

Economic Value of Sport Yorkshire & the Humber 2003-2008

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Contents

			Page
Definitions			iii
Executive Sur	mmary		iv
Chapter 1:	Introduction		1
1.1:	Terms of Reference		1
1.2:	Methodology		1
1.3:	Regional Characteristics		3
1.4:	Sport in the Region		3
Chapter 2:	The Sport Economy in Yorkshire and the Humber		8
2.1:	Summary of key indicators		8
2.2:	Consumer Spending		9
2.3:	Sport-related Output		10
2.4:	Sport-related Employment		11
2.5:	Summary of Income and Expenditure flows		12
Chapter 3:	The Sport Economy in Context		13
3.1:	Spending, Output and Employment		13
3.2:	Importance of Sport in the Yorkshire and the Humber region	13	
3.3:	Sport and the Leisure Industries		24
Appendices:			
A1:	Statistical Sources		28
A2:	Model Output		29
A3:	Sources and Methods		43

Definitions

1. National Income Accounting

The concepts of National Income Accounting were developed for macro-economic analysis in the 1930s and 1940s. The basic principle is that there is accounting equality between total output, total income and total expenditure. The most common definitions of total output in the economy as a whole are the Gross Domestic Product (GDP) and Gross Value Added (GVA). For example, assume that the total output in a factory producing football boots is £100m. This is equivalent to the income generated as wages (say £60m) as profits (say £10m) and as flow to the companies, selling inputs (£30m) required in the production. In this example, GVA is the sum of wages and profits. Further, total income will also be identical to total expenditure because output that is not sold in the current financial year is treated as investment expenditure.

2. Gross Value Added (GVA)

GVA is the difference between total output (based on wages and profits) and the cost of inputs used in the production process (raw materials and services). Alternatively it can be expressed as:

GVA = GDP - taxes on products + subsidies on products.

GVA shows the contribution of the sports sector to the economy as a whole.

3. Sport

We follow the definition employed in the publication Sport Market Forecasts¹. Sport is divided into the following sectors: Sport clothing and footwear, Sport equipment, Health and fitness, other participant sports, Boats, Spectator sports, Sport gambling, Sport TV and video, Sport related publications and sport related travel.

4. Employment

This is full time equivalent (FTE) jobs. In this case two half-time jobs are measured as one full time equivalent.

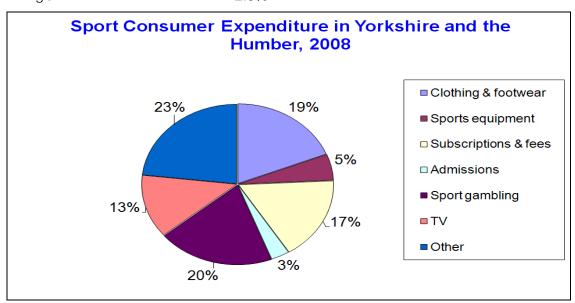
¹ Sport Market Forecasts 2009-2013, Sport Industry Research Centre (SIRC), 2009

Executive Summary

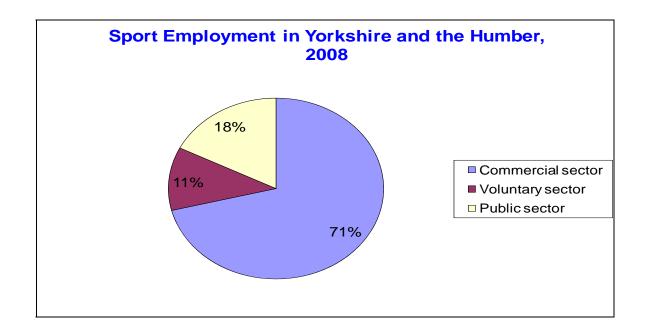
- This report is part of Sport England's ongoing commitment to build the evidence of the
 economic value of sport. The research has been carried out by The Sport Industry
 Research Centre (SIRC) as a follow up of the 2005 economic reports.
- The economic value of sport has been assessed across England as a whole and separately for each region. The 2008 economic recession has been a factor influencing the size of the sports sector nationally and within each region.
- This report focuses on the economic importance of sport to the Yorkshire region in 2008, providing comparisons with estimates from 2003, 2005 and the other English regions.
- The methodology employed in this report is based on national income accounting and the income and expenditure flows between sub-sectors of the economy. By using the latter we can derive a monetary value for the sport production (value added) which is consistent with the national statistics framework and crucially avoids the problem of double counting.
- In 2005 and 2008 consumers spent £1,726m and £1,535m on sport respectively.

 Consumer expenditure on sport as a percentage of total expenditure (2008):

Yorkshire and the Humber: 2.2% England: 2.3%



- Despite the recession, the commercial sport and public sectors increased their sport-related output by 8% and 9% respectively over the period 2005-2008.
- Sport related economic activity generated £1,425m and £1,520m in 2008and 2005 correspondingly. This is equivalent to 1.6% of total value added in the region (2008).
- 39,800 people are employed in sport related employment corresponding to 1.6% of total employment in the region (2008).



- During the period 2003-08, England's gross value added from sport increased by 22%.
 During the 2005-08 period, sport related GVA increased by 8% in terms of this methodology and 12% in terms of the ABI statistical definition of sport. This compares favourably with the corresponding growth in 'gambling' and 'motion picture and video activities', both decreasing because of the recession.
- The sport economy in the region is driven by sport-related investment aiming at urban regeneration. Large sport projects have the potential to make the region a sport participation and sport tourism hub of international significance. Sport gambling has been a strong factor for growth and capital investment in the region.

1. Introduction

1.1 Terms of Reference

This report has been prepared by the Sport Industry Research Centre (SIRC) at Sheffield Hallam University on behalf of Sport England. The purpose of the report is to provide an estimate of the economic importance of sport in the Yorkshire and the Humber region. It builds on similar research carried out by Cambridge Econometrics in 2000¹ and SIRC in 2003 and 2005 that measured the value of the sport economy in the nine English regions. Selected comparisons have been made with the 2003 and 2005 studies to illustrate the change in the importance of sport to the Yorkshire and the Humber region economy. This report informs of the direct economic contribution of sport to the regional economy. It also captures in percentage terms the effect of the 2008 recession.

1.2 Methodology

The SIRC model of economic impact assessment, uses as its basic input, where possible, economic variables from official statistics. Hence, with the sole exception of the voluntary sector, there is no need for collection of primary data. National income accounting provides the framework for this model, which is consistent with the UK National Accounts. It allows for a division of the sports economy into the seven sectors below:

- Consumers, including the personal or household sector. Shows mainly sport related expenditure, e.g. spending on sports clothing and footwear.
- Commercial Sport including spectator sport clubs, sports good manufacturers and retailers. In this sector we would classify companies such as Nike, JJB and football clubs. We also include a section of the media where a sport product/ service is produced such as sport TV, sport publications etc.
- Commercial Non-Sport including suppliers for the production of sport-related goods and services. This sector includes all companies of the commercial sector that do not provide a sport product, but they assist through supply of inputs or revenue in its production. An example is a beer company sponsoring a football club. The advertising revenue received by the club, represents a flow from the commercial non-sport to the commercial sport sector.

¹ Cambridge Econometrics: The Value of the Sports Economy in the Regions in 2000

- Voluntary including non-profit making sport organisations such as amateur clubs run by their participants. Professional football clubs are not included in this category even if they are managed on a non-profit basis.
- Local Government including income from local government sport facilities, sport related grants from the Central government and rates from the commercial and voluntary sector. The sector has expenses such as wages for labour (a flow towards consumers) and grants to the voluntary sector.
- Central Government including taxes, grants and wages on sport related activities.
 For example a person buying a ticket for a football match, records two flows: one towards the Government sector as VAT and another towards the Commercial sport sector for the remainder of the price.
- Outside the Area sector. This includes all transactions with economies outside the region.

We record income and expenditure flows between the seven sectors above. As a result we can draw up a set of income and expenditure accounts for each sector. The 'double entry' accounting principle is applied, so every expenditure flow from sector A to sector B is also an income flow in the sector B accounts. The income and expenditure accounts are then used to derive estimates for the following economic impact indicators of the sport economy.

- Sport-related consumer expenditure
- Sport-related employment
- Sport-related value added

Sport-related value added is the most comprehensive statistic of economic value as it corresponds to the gross value added (GVA) in the economy as a whole. It shows the contribution of the sport industry to the regional economy. We measure it as the sum of wages and profit surplus in the sector, adjusted for the inclusion of value contributed from National Lottery projects.

Inflation adjustment has not been used for comparisons between the years 2005 and 2008, as the general inflation rate is very low and the intervening period too small to make an impact. The inflation rate also varies between regions and between sport sectors. The sport generated product (GVA) as a percentage of the total regional product is usually the most important statistic to consider.

1.3 Regional Characteristics

Table 1.1 provides a snapshot of the economic and social background of the Yorkshire and Humber region. It includes statistics such as the regional population and Gross Value Added, which have been used to estimate the economic impact of sport in the region in 2008. Note that the consumer spending estimate used here is a SIRC estimate, consistent with the corresponding ONS statistic as reported in Consumer Trends (code: ABPB).

On the whole, the Yorkshire and Humber economy is underperforming compared with the UK. For example, Gross Value Added per head in the region is 82% of the UK figure. The regional unemployment rate (6.4%) is greater than the UK level (6.0%). Finally, average gross weekly earnings in the Yorkshire and Humber region correspond to about 89% of the UK average. The gap between the region and the UK has widened during the period 2005-08.

1.4 Sport in the Region

Some of the key features of sport in Yorkshire and the Humber, in terms of the region's sporting infrastructure and representation, are illustrated in table 1.2 below.

Table 1.1 Yorkshire and the Humber - regional profile, 2008	
Resident population '000s Males	2,568
Females	2,645
All	5,213
	,
Percentage of non-white groups	0.40/
Region	9.4%
Gross Value Added per head (£)	
Region	17,400
England	21,183
Gross Value Added (£m)	00.704
Region	90,704
England	1,089,799
Percentage of working age population	
Region	62.3%
UK	62.1%
Unemployment % rate on working age population (Jun-Aug 2008 / Seasonally Adj.)	
Region	6.4%
UK	6.0%
Ec. active % rate of working age people (Jun-Aug 2008 / Seasonally Adj.)	78.5%
Region England	78.5% 79.4%
	79.470
People in employment aged 16 to 59/64 '000s, (Jun-Aug 2008 / Seasonally Adj.)	
Region	2,365
England	23,631
Average weekly paid working hours	
Male Full Time, Region	41.1
Male Full Time, UK	40.7
Female Full Time, Region	37.6
Female Full Time, UK	37.6
All Full Time & Part time, Region All Full Time & Part time, UK	34.0 33.9
Average gross weekly earnings (£)	33.9
Male Full Time, Region	560.6
Male Full Time, UK	634.0
Female Full Time, Region	440.8
Female Full Time, UK	484.4
All Full Time & Part time, Region	423.0
All Full Time & Part time, UK	473.2

Sources: ONS, Regional Trends, Labour Market Statistics, ASHE, Sport England, SIRC

Table 1.2 Sport Profile of the Yorkshire and Humber Region*

Premiership football: Hull City

Championship football: Barnsley

Doncaster Rovers
Scunthorpe United
Sheffield Wednesday

Sheffield United

League 1 football: Huddersfield Town

Leeds United

League 2 football: Bradford City

Grimsby Town

Rotherham United

Rugby Union Premiership: Leeds Carnegie

Rugby Super League: Bradford Bulls

Castleford Tigers

Huddersfield Giants

Hull FC

Hull Kingston Rovers

Leeds Rhinos

Wakefield Trinity Wildcats

Cricket: Yorkshire

Test match cricket ground: Headingley (Leeds)

Basketball: Sheffield Sharks

Speedway: Scunthorpe

Sheffield

Greyhound racing: Doncaster

Kinsley Sheffield

Horse racing: Beverley

Catterick Bridge

Doncaster
Pontefract
Ripon
Thirsk

Wetherby York

Motor racing: Croft

Ice Hockey Sheffield Steelers

Hull Stingrays

Other: International athletics stadium in Sheffield (Don Valley

Stadium)

International swimming venue in Sheffield (Ponds Forge)

World Snooker Championship in Sheffield (Crucible Theatre)

St. Leger Festival in Doncaster

British Universities and Colleges Sport Championship in

Sheffield and Leeds

Sport science and sport medicine centres (Sheffield Hallam

University and Sheffield University)

^{*} At the time of writing.

2. The Sport Economy in Yorkshire and the Humber

2.1 Summary of key indicators

Table 2.1 summarises the most important sport-related indicators for Yorkshire and the Humber, namely consumer expenditure, gross value added and employment for the years 2000, 2003, 2005 and 2008. The table also draws comparisons with England as a whole. The estimate for total regional consumption expenditure is derived using Family Spending and Consumer Trend Statistics. It is therefore consistent with the European System of Accounts 1995. The table shows that the effect of the 2008 recession was to take us back to near the 2000 levels of sport economic activity.

According to Table 2.1, over £1.5 billion was spent on sport-related goods and services in Yorkshire and the Humber in 2008. In the same year, consumer expenditure on sport accounted for 2.2% of their total expenditure in the region, marginally below the national average for England. Compared with 2005, sport-related consumption fell by 11% in 2008. This was the result of the 2008 recession.

Table 2.1: Main Sport-Related Indicators for York	shire and th	e Humber		
	2000	2003	2005	2008
Consumer expenditure on sport (£million)	1,156.0	1,308.2	1,726.4	1,535.2
percentage of Yorkshire and the Humber total	2.3	2.4	2.9	2.2
national average (England)	2.3	2.5	2.6	2.3
Gross Value Added by sport (£million)	950	1,178.8	1,519.9	1,424.5
percentage of Yorkshire and the Humber total	1.6	1.7	1.9	1.6
national average (England)	1.5	1.6	1.7	1.5
Sport related employment (thousands)	36.1	39.2	47.2	39.8
percentage of Yorkshire and the Humber total	1.6	1.7	2.0	1.6
national average (England)	1.7	1.7	1.8	1.8

Sport-related economic activity in 2008 adds more than £1.4 billion to the Yorkshire and Humber economy, representing a decline of 6% for the period 2005-08. Following the recession, the contribution to GVA by sport in the region has returned to the 2000 level of 1.6%. This is still above the national English level of 1.5%.

Sport-related employment in Yorkshire and the Humber increased from 39,200 in the year 2003 to 39,800 in 2008. As a percentage of total employment, it declined from 1.7% in 2003 to 1.6%. However compared to 2005, there was a decline in sport related employment of more than 15%. In the Yorkshire and the Humber region, the decline in consumer expenditure following the 2008 recession, brought about a greater reduction in employment, and hence wages, than output.

2.2 Consumer Spending

Table 2.2 summarises the value of sport-related consumer spending in the region. The new estimate is consistent with the total reported in the ONS publication Consumer Trends.

Table 2.2 shows that the total value of sport-related consumer spending was £1,535 million in 2008, representing a decline of 11% over the year 2005. Gambling represents the largest area of consumer spending on sport (£304 million, 20%). This is somewhat aided by the presence of several racecourses across the region, notably in North Yorkshire; however the vast majority of horse race betting expenditure occurs off-course.

Table 2.2: Sport-Related Consumer Spending in Y	orkshire and	I the Humbe	er	
	2000 £m	2003 £m	2005 £m	2008 £m
Sport clothing and footwear	244	275	307	291
Sports goods	56	66	145	81
Participation subscriptions and fees	292	214	306	259
Admissions to events	65	46	62	48
Sport-related gambling	186*	344	442	304
TV/video rental, cable and satellite subscriptions		133	156	197
Other sport-related spending	313	230	309	356
Total	1,156	1,308	1,726	1,535

Following the recession, sport related gambling declined by 31%, from £442 million in 2005 to £304 in 2008. After gambling, the major categories of expenditure are sport clothing and footwear (£291 million, 19%) and participation subscriptions and fees (£259 million, 17%). Both of them have declined following the recession. Admissions to events fell by 23%, from £62 million in 2005 to £48 million in 2008.

The role of sport in creating output and employment in the commercial non-sport sector is illustrated by the sports-related spending on 'TV / video rental, cable and satellite subscriptions', accounting for 13% of the sport market. Other spending categories include publications, sport-related BBC licence fee, and sport travel. Sport-related TV is the only major spending category that has shown growth during the 2005-08 period.

2.3 Sport-related Output

Estimates of sport-related output are based on value added by the sport sector. Value added is calculated as the sum of wages and profits generated in the sector. Table 2.3 summarises the value added by sport in Yorkshire and the Humber. According to the table, sport-related economic activity reached £1,425 million in 2008, representing an increase of 21% over the year 2003 and a decrease of 6% over the year 2005. Over half (£773) of this economic activity is generated by the commercial non-sport sector.

Table 2.3: Spor	rt-Related Value Added in	the Yorkshire and Hu	umber		
- -		2000	2003	2005	2008
-		£m	£m	£m	£m
Commercial spo	ort of which:	186	192	287	310
_	Spectator sports	53	48	57	56
-	Retailing	69	79	124	137
Commercial nor	n-sport	547	703	854	773
Voluntary sector		107	141	218	167
Public sector		110	143	161	176
Total		950	1,179	1,520	1,425

The next sector in size is commercial sport (£310 million, 22%); almost 60% of the valued added in this sector is attributable to manufacturing and retailing. The latter includes sport-related clothing and footwear, equipment and publications. A significant minority of sport-related economic activity in the region can be attributable to the voluntary (12%) and public (12%) sectors.

The 2008 recession did not imply reductions of output across all sectors of the sport economy. The Commercial sport and public sectors bucked the trend, increasing by 8% and 9% respectively over the period 2005-08. Within the commercial sport sector the driving force was retailing. The latter, over the 2005-08 period, increased by 10% reaching £137 million in value.

2.4 Sport-related Employment

Table 2.4 provides estimates for sport-related employment in Yorkshire and the Humber. The employment estimates are derived from calculations based on wage payments and average salaries per sector.

Sport and associated industries are estimated to employ 39,800 people in Yorkshire and the Humber, accounting for 1.6% of all employment in the region in 2008. This represents an increase of 2% since the year 2003, yet a significant decline since the boom of 2005.

Table 2.4 indicates that in 2008, the largest sector of sport-related jobs (18,500, 46%) is supported by the commercial non-sport sector. This is followed by the commercial sport (25%), public (18%) and voluntary (11%) sectors respectively. It should be noted that employment in sport retailing increased by 14% during the 2005-08 period, bucking the negative recession trend.

The 14% rise in employment is related to a 10% rise in Gross Value Added. It implies that in the first year of the recession in sport retailing, it was the profit margins that gave way, maintaining growth and increasing employment.

Table 2.4: Spo	ort-Related Employment in \	orkshire and the	Humber		
		2000	2003	2005	2008
-		('000)	('000)	('000')	('000')
Commercial sp		8.1	7.3	10.4	9.8
	of which:				
	Spectator sports	3.4	2.4	2.9	2.9
_	Retailing	2.7	2.4	3.5	4.0
Commercial no	n-sport	19.6	20.4	23.3	18.5
Voluntary secto	r	3.7	5.0	6.3	4.5
Public sector		4.7	6.6	7.2	7.0
Total		36.1	39.2	47.2	39.8

2.5 Summary of Income and Expenditure Flows

Table 2.5 below summarises the income and expenditure flows for the seven sport-related sectors in 2008. Of these sectors, the commercial non-sport sector generates the largest income, £1,015 million. This is followed by the commercial sport sector (£739 million) and consumer sector (£692 million). Sport retailing accounts for the majority (60%) of the commercial sector income, generated from the sale of sport equipment, clothing and footwear, books, magazines, newspapers and DVDs. On the expenditure side, by far the most important category is the consumer sector accounting for expenditure over £1.5 billion. The commercial non-sport and commercial sport also incur significant expenditures, £965 million and £661 million respectively. More than the half of the expenditure within the commercial sport sector relates to current factor spending, such as wages, predominantly in the retailing sub-sector.

Table 2.5 Sport-Related Income and Expenditure	Flows, 2008	
	Income	Expenditure
	£m	£m
Consumer	692.2	1,535.2
Commercial sport	739.4	660.8
of which:		
Spectator sports	81.8	81.3*
Participation sports	47.8	45.4*
Retailing	442.4	383.8*
Voluntary	297.0	223.0
Commercial non-sport	1,015.3	964.5
Central government	609.3	154.2
Local government	262.4	312.0
Outside the area	390.2	108.8
* Current factor expenditure (wages, other inputs)		

3. The Sport Economy in Context

3.1 Spending, Output and Employment

Tables 3.1 to 3.9 compare the nine English regions in terms of sport-related consumer spending, value added and employment for the years 2003, 2005 and 2008. Tables 3.1 to 3.3 refer to consumer spending, Tables 3.4 to 3.6 refer to value added, while the remaining tables present the picture of sport related employment.

From Table 3.3 it can be seen that the Yorkshire and Humber region ranks seventh amongst the English regions in terms of 'absolute' sport-related consumer spending. In 2008, spending per capita in the region was £295. The proportion of total consumer expenditure made on sport (out of total consumer expenditure) in the region ranks sixth amongst the English regions at 2.2%, marginally below the English average

A similar trend can be observed in Table 3.6. The sport-related output in the Yorkshire and Humber region ranks seventh across England, both in absolute terms (£1,425 million) and as a percentage of total regional output (1.6%). The latter is above the average for England as a whole (1.5%).

Table 3.9 shows that the output trends are reflected in employment. The sport-related employment in the Yorkshire and Humber region ranks seventh amongst the English regions, both in absolute terms (39,800) and in percentage contribution to total regional employment (1.6%). The latter is marginally below the English average (1.8%). This represents a reversal of the economic structure in the pre-recession years.

3.2 Importance of Sport in the Yorkshire and the Humber region

The sport economy in the Yorkshire and Humber region was affected by the 2008 recession. In 2005, the percentage of sport-related consumer spending out of total spending was the highest in England (2.9%). This has now declined to 2.2%. It shows that economic fortunes weigh heavily on sport within the region, and a quick recovery should be expected when the economy starts growing. Sport gambling forms a very important component of the sport

budget following the abolition of gaming tax. This is the case throughout England and the UK.

The region is very rich in sport infrastructure. Regional sport is built around stadiums such as Headingley for rugby and cricket and Elland Road. Sheffield in particular has invested in sport to promote urban regeneration. This has impacted upon sport-related employment in the wider region, which in proportionate terms is among the highest in the country. The Yorkshire and Humber region enjoys a special advantage in terms of sports development and participation.

- IceSheffield, the ice-skating venue which opened in 2003, attracts visitors from South Yorkshire and North Midlands. The cost of the project was £15.6 million, largely paid from lottery funding. It supports the Skate UK programme, developed by the National Ice-Skating Association, aimed at increasing participation among the public regardless of age, gender and disability.
- England's oldest horse race (since 1519), is run each year at Kiplingcotes. Building
 on this tradition there are nine established racecourses in the county. This is an
 important economic factor, as capital spending on racecourses is second only to
 football. Yorkshire and the Humber enjoy one of the strongest traditions in horseracing and sport gambling.
- Rotherham Metropolitan Borough council together with the developer Oak-Holdings are developing a £300 million entertainment centre, called YES! According to the submitted plans, the 320-acre leisure complex would be the largest indoor leisure and tourism destination in Europe. It would have extensive sport facilities including golf, extreme sport centre and spa. This project is estimated to generate 2,700 jobs in the area.

Table 3.1: Summary of sport-	related co	nsumer spe	ending in the	e English F	Regions in 2	003				
	East	East Midlands	London	North East	North West	South East	South West	West Midlands	Yorkshire & Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Sport clothing and footwear (£m)	332.3	219.2	592.8	144.7	434.2	525.0	257.9	333.7	275.4	3115.2
Sports goods (£m)	107.0	120.5	112.6	67.9	119.6	226.3	133.3	91.2	65.6	1044.0
Participation subscriptions and fees (£m)	336.7	224.3	621.2	116.5	369.4	538.0	286.1	240.8	214.1	2947.1
Admissions to events (£m)	71.9	47.9	132.7	24.9	78.9	114.9	61.1	51.4	45.7	629.4
Sport-related gambling (£m)	255.4	210.5	284.4	195.5	383.6	333.3	206.2	263.3	344.3	2476.5
Other sport-related spending (£m)	486.4	381.1	765.4	203.4	587.2	812.4	454.1	389.7	363.0	4442.7
Total expenditure on sport (£m)	1589.7	1203.4	2509.1	752.9	1972.9	2549.8	1398.8	1370.1	1308.2	14654.9
Per capita sport spending (£)	291.0	283.0	339.6	296.5	289.9	315.6	279.8	257.5	261.2	294.0
Proportion (%) of total consumer expenditure	2.3%	2.5%	2.5%	3.0%	2.6%	2.4%	2.4%	2.4%	2.4%	2.5%

Table 3.2: Summary of sport-	related co	nsumer spe	ending in the	e English I	Regions in 2	2005				
		East		North	North	South	South	West	Yorkshire	
	East	Midlands	London	East	West	East	West	Midlands	& Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Sport clothing and footwear (£m)	389.4	247.9	599.8	159.6	443.3	511.4	270.2	330.2	306.5	3,258.3
Sports goods (£m)	145.5	170.4	114.9	45.9	136.7	194.6	147.8	92.6	145.1	1,193.5
Participation subscriptions and fees (£m)	425.5	270.3	576.1	133.1	460.9	642.1	331.4	323.7	305.6	3,468.7
Admissions to events (£m)	85.8	54.5	116.2	26.8	93.0	129.5	66.8	65.3	61.6	699.5
Sport-related gambling (£m)	306.9	252.9	340.7	218.9	494.0	479.5	229.6	306.1	441.9	3,070.5
Other sport-related spending (£m)	592.9	421.6	806.5	189.5	661.2	827.3	506.4	418.6	465.6	4,889.6
Total expenditure on sport (£m)	1,946.0	1,417.6	2,554.2	773.9	2,289.0	2,784.4	1,552.3	1,536.5	1,726.4	16,580.1
Per capita sport spending (£)	351.1	329.2	339.7	302.5	334.4	341.1	306.3	286.4	340.9	328.8
Proportion (%) of total consumer expenditure	2.6%	2.7%	2.3%	2.9%	2.8%	2.5%	2.4%	2.4%	2.9%	2.6%
Table 3.3: Summary of sport-	related co	nsumer spe	ending in the	e English I	Regions in 2	2008				

		East		North	North	South	South	West	Yorkshire	
	East	Midlands	London	East	West	East	West	Midlands	& Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Sport clothing and footwear (£m)	429.6	293.0	633.0	164.9	417.6	520.2	347.6	441.4	290.6	3,537.9
Sports goods (£m)	155.6	118.2	229.2	44.3	133.9	137.0	115.7	100.6	81.0	1,115.5
Participation subscriptions and fees (£m)	443.6	248.1	518.8	126.1	379.0	524.2	396.2	279.6	258.9	3,174.5
Admissions to events (£m)	82.1	45.9	96.1	23.4	70.2	97.1	73.4	51.8	47.9	587.9
Sport-related gambling (£m)	350.13	237.5	369.5	214.6	350.2	385.8	278.0	610.7	303.7	3,100.1
Other sport-related spending (£m)	854.6	455.6	882.5	255.2	710.1	904.2	600.6	651.9	553.0	5,867.7
Total expenditure on sport (£m)	2,315.6	1,398.4	2,729.1	828.5	2,060.9	2,568.4	1,811.6	2,135.9	1,535.2	17,383.6
Per capita sport spending (£)	404.2	315.5	358.1	321.7	299.7	306.5	347.8	394.7	294.5	337.9
Proportion (%) of total consumer expenditure	2.6%	2.4%	2.1%	2.6%	2.2%	1.9%	2.3%	2.9%	2.2%	2.3%

Table 3.4: Summary of sport-rela	ated output	in the Engli	sh Region	s in 2003						
		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Commercial sport	473.6	294.4	628.5	122.9	370.7	686.7	273.6	317.8	192.2	3,360.4
of which:										
Spectator sports	61.1	47.1	129.1	32.5	97.7	105.2	53.1	61.6	47.8	635.2
Participation sports	48.5	31.9	164.1	14.2	59.4	79.3	44.3	34.0	20.7	496.4
Retailing	122.4	102.8	226.9	53.5	146.2	226.1	123.9	103.0	79.1	1,183.9
Manufacturing	33.8	23.9	50.7	11.0	36.4	59.2	29.3	22.7	21.6	288.6
TV and Radio	24.0	18.7	57.2	11.4	30.1	35.1	22.4	23.0	22.1	244.0
Commercial non-sport	779.0	604.3	1,118.8	401.4	1,017.8	1,210.2	681.1	722.5	702.7	7,237.8
Voluntary sector	212.7	139.7	402.0	80.1	238.4	336.4	175.8	144.8	141.3	1,871.2
Public sector	134.3	98.8	163.5	71.8	161.6	183.2	106.2	118.1	142.5	1,180.0
Total sport-related economic activity	1,599.6	1,137.2	2,312.7	676.2	1,788.4	2,416.5	1,236.6	1,303.1	1,178.8	13,649.1
Sport GVA as % of total GVA	1.7%	1.8%	1.4%	2.1%	1.8%	1.6%	1.6%	1.7%	1.7%	1.6%

		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Commercial sport	563.7	341.4	682.6	136.1	487.5	730.5	308.6	385.8	287.4	3,923.6
of which:										
Spectator sports	75.3	50.2	163.2	46.6	155.8	123.1	61.2	91.2	57.4	824.0
Participation sports	64.8	37.0	140.8	16.1	73.9	105.8	48.4	53.0	38.4	578.2
Retailing	161.9	125.0	240.1	46.0	164.3	215.8	130.9	107.3	123.7	1,315.0
Manufacturing	57.2	34.9	63.7	12.0	53.5	72.1	38.4	28.4	38.6	398.8
TV and Radio	31.1	24.3	74.4	14.7	39.0	45.4	29.2	29.7	28.7	316.5
Commercial non-sport	892.0	676.5	1,157.8	409.4	1,129.7	1,279.9	722.9	765.0	853.5	7,886.7
Voluntary sector	283.2	177.7	371.6	96.2	318.2	429.4	208.9	209.0	217.9	2,312.1
Public sector	155.5	125.4	185.6	84.1	185.0	200.4	123.5	120.2	161.1	1,340.8
Total sport-related economic activity	1,894.4	1,321.1	2,405.2	725.9	2,120.4	2,640.2	1,363.8	1,480.0	1,519.9	15,470.9
Sport GVA as % of total GVA	1.8%	1.9%	1.3%	2.0%	2.0%	1.6%	1.6%	1.7%	1.9%	1.7%

Table 3.6: Summary of sport-rela	ated output	in the Engli	sn Region:	s in 2008						
		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)	(£m)
Commercial sport	664.9	358.8	740.3	190.9	496.0	752.0	344.2	470.1	309.8	4,327.0
of which:										
Spectator sports	83.9	66.8	178.7	73.7	187.2	135.5	75.64	90.0	55.7	947.1
Participation sports	67.4	31.5	121.9	15.4	55.9	80.6	60.43	43.7	26.3	503.1
Retailing	215.7	112.6	282.1	60.3	149.6	194.6	135.82	180.6	136.7	1,468.0
Manufacturing	77.2	46.2	75.6	24.7	58.9	65.8	39.5	54.9	58.5	501.3
TV and Radio	34.6	27.0	81.2	15.9	42.6	50.0	32.3	32.4	31.6	347.6
Commercial non-sport	1,085.6	705.8	1,294.8	444.7	1,085.5	1,273.4	858.1	1,115.2	772.5	8,635.6
Voluntary sector	302.6	160.7	333.4	91.6	247.7	332.4	260.6	214.4	166.5	2,109.9
Public sector	187.4	150.1	222.1	90.6	253.0	233.9	143.1	139.9	175.6	1,595.7
Total sport-related economic activity	2,240.5	1375.3	2590.5	817.8	2,082.3	2,591.6	1,606.0	1,939.6	1,424.5	16,668.1
Sport GVA as % of total GVA	2.0%	1.7%	1.0%	2.0%	1.7%	1.4%	1.6%	2.0%	1.6%	1.5%

Table 3.7: Summary of sp	ort-relate	d employme	nt in the E	inglish Region	ns in 2003					
		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)
Commercial sport	16.5	11.6	17.4	4.5	12.4	23.8	9.9	12.4	7.3	115.8
of which:										
Spectator sports	2.4	2.3	3.3	1.4	3.6	3.7	2.5	2.8	2.4	24.4
Participation sports	1.9	1.6	4.3	0.6	2.2	2.8	2.1	1.6	1.0	18.1
Retailers	3.6	3.1	7.4	1.6	4.3	6.7	3.7	3.0	2.4	35.8
Manufacturing	1.0	0.8	1.0	0.5	1.2	1.7	0.9	0.7	0.7	8.5
TV and Radio	0.6	0.7	1.4	0.4	1.1	1.0	0.7	0.8	0.8	7.5
Commercial non-sport	22.0	17.5	21.5	12.4	28.8	29.4	19.2	20.7	20.4	191.9
Voluntary sport	5.1	4.5	5.8	2.4	5.7	7.3	5.4	4.7	5.0	45.9
Public sector	5.4	4.4	5.0	3.2	6.5	6.9	4.6	5.2	6.6	47.8
Total jobs in sport	49.0	38.0	49.7	22.5	53.4	67.4	39.1	43.1	39.2	401.4
Proportion (%) of total employment in sport	1.8%	1.9%	1.5%	2.1%	1.7%	1.7%	1.6%	1.8%	1.7%	1.7%

Table 3.8: Summary of sp	ort-relate	d employme	ent in the E	English Region	ns in 2005					
		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	('000')	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)
Commercial sport	21.5	12.5	18.0	5.7	15.9	25.5	10.3	14.1	10.4	133.9
of which:										
Spectator sports	3.3	2.3	4.2	2.7	5.9	4.6	2.6	3.7	2.9	32.2
Participation sports	2.8	1.7	3.8	0.9	2.8	4.0	2.1	2.2	2.0	22.3
Retailers	4.5	3.6	7.1	1.3	4.6	6.1	3.7	3.0	3.5	37.4
Manufacturing	1.3	0.9	1.0	0.4	1.3	1.7	0.9	0.7	1.1	9.3
TV and Radio	0.8	0.8	1.8	0.5	1.3	1.2	0.9	1.0	1.0	9.3
Commercial non-sport	22.2	18.4	21.1	11.5	30.0	30.2	19.5	20.5	23.3	196.7
Voluntary sport	6.7	4.7	5.3	3.2	6.6	8.6	5.2	5.0	6.3	51.6
Public sector	6.1	5.1	5.5	3.9	6.8	7.2	4.8	4.6	7.2	51.2
Total jobs in sport	56.5	40.7	50.1	24.3	59.4	71.6	39.9	44.2	47.2	433.9
Proportion (%) of total employment in sport	2.1%	1.9%	1.4%	2.2%	1.9%	1.7%	1.6%	1.8%	2.0%	1.8%

Table 3.9: Summary of sp	ort-relate	d employme	nt in the E	inglish Regior	ns in 2008					
		East			North	South	South	West	Yorkshire	
	East	Midlands	London	North East	West	East	West	Midlands	& Humber	England
	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)	('000)
Commercial sport	25.2	12.5	20.9	7.2	18.8	25.5	12.7	18.1	9.8	150.7
of which:										
Spectator sports	3.9	2.9	5.5	3.7	9.0	5.9	3.7	4.2	2.9	41.7
Participation sports	3.0	1.3	3.6	0.7	2.5	3.3	2.8	1.9	1.3	20.4
Retailers	6.5	3.4	8.6	1.8	4.5	5.8	4.1	5.4	4.0	44.1
Manufacturing	2.3	1.0	1.5	0.6	1.6	1.3	0.9	1.8	0.5	11.5
TV and Radio	0.8	0.8	1.7	0.5	1.2	1.2	1.2	1.2	1.2	9.9
Commercial non-sport	23.8	16.5	20.7	11.1	25.3	26.0	20.1	26.1	18.5	188.1
Voluntary sport	6.2	3.4	4.9	2.2	5.8	7.0	5.7	4.9	4.5	44.6
Public sector	6.8	5.4	6.3	3.4	9.7	8.1	5.5	5.1	7.0	57.3
Total jobs in sport	62.1	37.9	52.8	24.0	59.5	66.7	44.0	54.2	39.8	441.0
Proportion (%) of total employment in sport	2.2%	1.8%	1.4%	2.1%	1.9%	1.6%	1.7%	2.2%	1.6%	1.8%

3.3 Sport and the leisure industries

Figure 4.1 below provides a comparison between the Gross Value Added produced by Sport and the Gross Value Added produced by other Leisure related Industries in England. The statistics are taken directly from the Annual Business Inquiry (ABI). They are based on UK figures and have been adjusted by a factor of 0.85 to bring them down to an English level. Sport is represented in the diagram in two ways: Firstly, as Gross Value Added derived from SIRC for the benefit of this report, and secondly as the sum of the sport related categories identified by ABI. This is often called the statistical definition of sport. It includes the following categories: sporting activities (mainly operation of sport arenas and stadiums), physical well being activities, manufacture and retail of sport goods. The ABI derived sport GVA equals £5.9 billion in 2008, equivalent to 36% of the total sport GVA estimated at £16.7 billion. Sport (using the ABI definition) has greater economic importance than the sum of 'Motion picture & video activities', 'Radio and TV activities', and 'Gambling and betting'. Further, the sport sector (using the SIRC model estimation) is approximately equivalent to the sum of 'Hotels' and 'Publishing' sectors.

Figure 4.2 illustrates the GVA growth rates of the selected leisure sectors over the period 2005-2008. We consider this short period in order to focus more on the impact of the recession. The sector 'Hotels' has the largest growth over the examined period. This is partly because of the reversal of a very low growth pattern that accompanied the aforementioned sector during the first half of the decade. This is followed by 'Sport', as defined statistically by ABI, at 12% and 'Publishing' at 10%. Sport, as defined by SIRC in this report, during the period 2005-2008 grew by 8%. The remaining considered categories: 'Video activities', 'Radio and TV activities', and 'Gambling' all declined considerably over the examined period. 'Gambling and betting activities' lost more than 50% of its Gross Value Added over the examined period 2005-2008. Hence, despite the decline of the sport economy as a percentage of the whole economy, the sport economy did not suffer the full effect of the recession as shown in the cases of Motion pictures and video activities or Gambling. Under both definitions considered, Sport increased considerably, driven by investment directed towards the London Olympics and a long-term Sport England policy to increase sport participation. Had these policies not been in place, the negative effect on the sport sector would have been considerable. When the economy declines, the sectors that suffer before all are leisure related. Finally, the resistance of the sport sector to the recession effect reflects a greater importance of sport participation in the living standards experienced in the UK. A great proportion of the population consider sports participation as being more a basic need than a luxury.

18000 16000 14000 12000 10000 8000 6000 4000 2000 0 Gambling and betting Motion picture and video activities Radio and TV activities Sport -statistical definition (ABI) Publishing SPORT (SIRC) Hotels

Figure 4.1: GVA England, 2008, £m

Sources: Annual Business Inquiry, SIRC

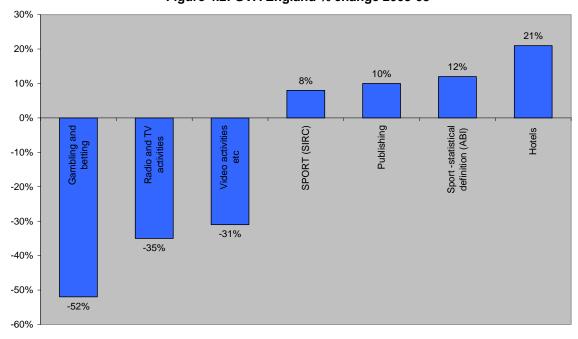


Figure 4.2: GVA England % change 2005-08

Sources: Annual Business Inquiry, SIRC

APPENDICES

LIST OF TABLES

A1: Statistical Sources

A2: Model Output

Consumer expenditure on sport related goods and services, 2008

Commercial sport income, 2008

Commercial sport expenditure, 2008

Voluntary sector income, 2008

Voluntary sector expenditure 2008

Commercial non sport income 2008

Commercial non sport expenditure 2008

Central Government income, 2008

Central Government expenditure, 2008

Local Government income, 2008

Local Government expenditure, 2008

Outside the area income, 2008

Outside the area expenditure, 2008

Value added by sport related economic activity, 2008

Employment, 2008

Expenditure flows matrix, 2008

A3 Sources and Methods

A1: Statistical Sources

Sources of data used in the model include the following publications:

Consumer Trends	Housing and Construction Statistics
Travel Trends	UK National Accounts
Family Spending	BBC Annual Report and Accounts
Regional Trends	PRODCOM Annual Industry Reports
• 'Focus on' reports	HM Customs and Excise Report
Annual Business Inquiry	Monthly Digest of Statistics
• ASHE	Financial Statement and Budget Report
Sport England Annual Report	Horserace and Betting Levy Board Report
Regional Accounts	Government's Expenditure Plans
 Leisure and Recreation Statistics 	Deloitte: Annual Review of Football Finance
	BSkyB Annual Report
General Household Survey	Labour Trends
National Travel Survey	

A2: Model Output

Consumer Expenditure on Sport Related	I Goods & Services, 2008
	£million
Admissions	47.9
Sports goods	81.0
Bicycles	3.0
Boats	120.2
Participants sports subscriptions & fees	258.9
Clothing sales	179.8
Footwear sales	110.9
Repairs and laundry	1.6
Travel	67.3
Books and magazines	14.1
Newspapers	27.1
Video: purchase and rental	2.0
BBC licence	31.5
TV and video rental, cable & satellite subscriptions	197.1
Internet subscriptions	0.7
Skiing holidays	80.0
Public schools	8.3
Gambling: Football pools	4.6
Horse Racing	270.7
Raffles and gaming	28.4
Total	1,535.2

Commercial Sport Income, 2008					
Spectator Clubs:	£ million				
	47.4				
Admissions	47.4				
Sponsorship & advertising	16.5				
Corporate entertainment	10.7				
Horserace Betting Levy	7.8				
Participation clubs:					
Subscriptions & fees	47.8				
Retailers (net of Vat):					
Equipment	143.7				
Clothing and footwear	255.9				
Books, newspapers and magazines & videos	42.8				
Exports and manufacturers' sales of	04.0				
clothing, footwear & equipment	94.0				
TV and radio:					
BBC	31.5				
Commercial	28.8				
Exports	2.3				
Internet subscriptions	0.6				
Lottery awards	1.8				
Lottery partnerships	0.7				
Total Income	732.3				

Commercial Sport Expenditure, 2008					
	£ million				
Current factor expenditure					
Spectator clubs:					
Wages	54.0				
Other inputs	27.4				
Participation:					
Wages	23.9				
Other inputs	21.5				
Retailers:					
Wages	78.1				
Other inputs	305.7				
Manufactures:					
Wages	10.0				
Other inputs	35.5				
TV and radio:					
Wages	30.2				
Other inputs	16.6				
Total Factor Expenditure	_				
Total wages	196.2				
Total other inputs	406.7				
Total factor surplus	112.6				
Total value added	308.8				
	000.0				
Current transfers	_				
Corporation tax	16.1				
Rates	9.3				
Capital expenditure					
Investment	32.5				
Total Expenditure Leaving Sector	660.8				

Voluntary Sector Income, 2008		
	£ million	
Factor income (monetary)		
Players' subscriptions and match fees	145.0	
Equipment	1.0	
Sponsorship and advertising	11.2	
Raffles and gaming machines	28.4	
Bar receipts	185.7	
Subtotal (factor income)	371.3	
Other monetary income		
Grants	18.0	
Foundation for Sport and Arts	1.5	
Employers' subsidies	15.8	
Interest	6.2	
Lottery awards via Sport England	7.4	
Lottery partnerships	6.6	
Total Monetary Income (excluding bar receipts)	241.3	

Voluntary Sector Expenditure, 2008	
	£million
Factor expenditure	
Wages	95.0
Ground hire and rents	12.9
Equipment	1.0
Other	66.5
(Bar purchases)	130.0
Subtotal (factor expenditure)	305.4
Rates	8.1
Interest	3.0
Investment	36.4
Total Monetary Expenditure (excluding bar purchases)	223.0

Commercial Non-Sport Income, 2008		
	£million	
Receipts net of tax from consumer spending:		
Travel	24.2	
Gambling	244.0	
Skiing	36.3	
Public schools	6.9	
TV rental, cable & satellite subscriptions	162.6	
Sales of current inputs to:		
Central government	8.7	
Local government	43.5	
Commercial sport	304.9	
Voluntary sector	61.4	
Interest from voluntary sector	3.0	
Sales of capital inputs to:		
Local government	69.7	
Commercial sport	20.1	
Voluntary	30.1	
Promotion expenditure for sponsorship (intra-sectoral flow)	38.7	
Total income	1,015.3	

Commercial Non-Sport Expenditure, 2008	
	£million
Producers of inputs to sport:	
wages	495.8
imports	253.2
(factor surplus)	276.8
(value added)	772.5
Corporation tax	39.5
Rates	23.2
Purchases of inputs from sport:	
Sponsorship and advertising	45.8
ITV and radio advertising	28.8
Corporate entertainment at sports events	10.7
Employees' sports subsidies	7.2
Horserace Betting Levy	7.8
Interest payments to voluntary sector	6.2
Promotion expenditure for sponsorship:	
(to elsewhere in CNS sector)	38.7
Lottery awards via Sport England	21.2
Lottery partnerships	25.1
Total expenditure leaving sector	964.5

Central Government Income, 2008	
	£ million
Taxes:	
on expenditure	264.3
on incomes generated in:	
commercial sport	76.4
voluntary sector	27.9
commercial non-sport	193.5
local government	46.6
Total income	609.3
Lottery awards	3.2
Lottery partnerships	2.0

Central Government Expenditure, 2008	
	£ million
Transfer Payments	
Grants via Sport England Grant support for local government expenditure on:	12.3
sport (net spending)	57.0
education	59.0
Foundation for Sport and Arts	2.0
Factor Expenditure	
Sport England: wages and other inputs	8.6
Prison service, MOD, royal parks:	
wages and other inputs	3.5
Total	154.2

Local Government Income, 2008	
	£ million
Local authority sports facilities:	
fees and charges	46.2
sales of equipment	24.9
ground hire	6.5
Overla for a control or a control	
Grants from central government:	
to fund net expenditure on sport	57.0
sport education	59.0
via Sport England	1.8
via FSA	0.5
Rates:	
voluntary sector	8.1
commercial sport	9.3
commercial non-sport	23.2
Payments for policing	1.3
Lottery awards	8.8
Lottery partnerships	15.9
Total income	262.4

Local Government Expenditure, 2008	
	£ million
Current expenditure	
Direct gross expenditure:	
Wages	71.3
Other current expenditure	60.7
Education:	
Wages	73.2
Research	0.5
Local transport and policing:	
Wages and other inputs	14.3
Grants to voluntary clubs	7.6
Capital expenditure	
Investment	84.4
Total expenditure	312.0

Outside the Area Income, 2008	
	£ million
Sports, clothing, footwear and equipment	76.2
Import content of skiing	29.7
TV imports	4.1
Prize income	11.3
Import content of UK production of:	
Sport related goods and services	15.6
Commercial non-sport sector output	253.2
Total income	390.2

Outside the Area Expenditure, 2008	
-	£ million
Sports, clothing, footwear and equipment	85.6
Admissions to sports events	9.6
TV exports	2.3
Prize income	11.3
-	-
Total expenditure	108.8

Value Added by Sport Related Economic Activity, 2008		
	£million	Index
Commercial sport:		
Wages	196.2	
Surplus Lottery projects	112.6 1.0	
Total	309.8	21.8
Total	309.8	21.0
Voluntary sector:		
Wages	95.0	
Surplus Lottery projects	65.9 5.7	
Total	166.5	11.7
Commercial non-sport:		
Wages	495.8	
Surplus	276.8	
Total	772.5	54.2
Central Government:		
Wages	4.7	
Lottery projects	2.1	
Total	6.8	0.5
Local Government:		
Wages (education)	73.2	
Wages (sports facilities)	71.3	
Wages (transport and policing)	14.3	
Lottery projects	10.0	
Total	168.8	11.8
Total Value Added	1,424.5	100.0

Employment, 2008		
	Employment ('000s)	
Sector		
Commercial Sport:		
Spectator clubs	2.9	
Participation clubs	1.3	
Retailers	4.0	
Manufacturing (exports)	0.5	
TV and Radio	0.9	
Subtotal	9.5	
Voluntary sport	4.5	
Commercial non-sport	18.5	
Central Government:		
Administration	0.2	
Subtotal	0.2	
Local Government:		
Sports facilities	3.8	
Education	2.6	
Transport/police	0.5	
Subtotal	6.9	
Total	39.5	

The Expenditure Flows Matrix, 2008 (£m)							
Flows from:	Flows to: CON	CS	VOL	CNS	CG	LG	OV
Consumer sector	0.0	561.0	174.4	474.1	216.5	71.0	29.7
Commercial sport	138.6	0.0	0.0	325.0	79.4	10.6	107.2
Voluntary sector	67.1	0.9	0.0	94.4	46.1	14.5	0.0
Commercial non-sport	357.9	73.3	38.6	0.0	193.5	47.9	253.2
Central government	4.7	1.9	20.6	8.7	0.0	118.4	0.0
Local government	112.5	6.6	7.6	113.2	72.2	0.0	0.0
Overseas	11.3	95.8	0.0	0.0	1.7	0.0	0.0

A3: Sources and Methods

This section attempts to explain how the estimates are derived. Many are generated through the flows in the model. The flows among the sectors in the SIRC model are based on a double entry principle between income and expenditure. Data sources mostly relate to the expenditure side, especially in the case of consumers. The Overseas sector is treated as residual in the flow system. No data exist to adequately describe the Voluntary sector; for this reason we use relationships that arise from previous studies and surveys to relate the Voluntary sector to the sport economy. The estimation of the remaining five sectors is explained below:

Consumer expenditure

Many items of sport related consumer expenditure are located in the Family Expenditure Survey (FES) at the UK level. Only broader categories of spending exist for the Regions. The latter are used to extract the relative statistics from the UK figures in a proportionate manner.

Admissions: They are estimated from FES. Data exist for 'Spectator sports - admission charges' for the UK as a whole and for 'Sports admissions and subscriptions' for the regions. Our estimate comes from the UK figure, using the regional proportions.

Sports goods: Expenditure is estimated from FES 'Sports and camping equipment' and annual reports of major sports companies.

Bicycles: The basis of the estimate comes from Consumer Trends. This is filtered regionally according to FES and the proportion of sport related bicycle journeys form the National Travel Survey (NTS).

Boats: The estimate is derived from a SIRC model for the sector based on statistics from the British Marine Federation.

Participant sports subscriptions and fees: Expenditure is estimated using the FES categories: 'participant sports excluding subscriptions' and 'subscriptions to sports and social clubs'.

Clothing and footwear sales: The estimate is based on a SIRC model, annual reports from sports companies and statistics from Consumer Trends and FES.

Sport related travel: This is derived from a SIRC model based on NTS statistics.

Books, magazines and newspapers: Statistics are based on FES and Consumer Trends.

Video and DVDs purchase and rental: Based on statistics from FES and the British Video Association.

BBC licence: Expenditure is derived from the sport related content of the BBC licence. It is based on data from the BBC annual report, a SIRC model and the number of households.

TV rental, cable and satellite subscriptions: The basic estimate is derived from FES. Its sport related estimate is filtered by using BSkyB and BBC statistics.

Sport related gambling: The basis of the estimates is the UK figure which is derived from official HM Customs and Excise data. A model by SIRC is used to ensure that the value of the overall gambling sector corresponds to the Consumer Trends statistic. Subsequently the regional element is derived by using FES and the number of households.

Commercial sport income

Spectator club admissions: This is a flow of income coming from the domestic consumer sector and the overseas visitors to the region. Data from FES and HM Customs and Excise have been used. Income from Tourists is estimated from Travel Trends and the Digest of Tourist Statistics.

Sponsorship: Most of this income comes from the Commercial Non Sport sector. Various sources are used from the SIRC archive. We also assume that the sponsorship market is associated with the size of the spectator sports industry.

Horserace betting levy: This statistics is calculated using data from the Horserace Betting Levy Board Annual Report and population statistics from Population Trends.

Cost of the rights to top league matches: The basic estimate is derived from BSkyB statistics.

Subscriptions and fees: This is derived from the income and expenditure flows in the model.

Retailing: Income from retailing is associated with consumer expenditure on sport related equipment, clothing, footwear, books, newspapers, magazines and DVDs. A part of this expenditure is flowing towards Local Authorities, while VAT is going to the Central Government.

Exports: Income from exports is estimated using trade assumptions based on Input-Output tables for wider (than sport) sections of the economy. These ratios are applied on the sport related consumer spending.

TV and radio: Income in the case of BBC comes directly from the licence fee. Only the sports-related part is considered.

Commercial sport expenditure

Wages: The calculation of wages is based on the flow of income to the sector and estimated statistics (on the basis of the old Business Monitors and the Annual Business Inquiry) that relate wages to total income. This method of calculating wages is repeated in all sectors at a regional level.

Other inputs: In the case of spectator and participation clubs an estimation of profits is required. Then 'other inputs' is the residual income after profits and wages have been accounted for. In the case of retailers, 'other inputs' can be estimated directly through statistics from the Input-Output tables and the ABI at a regional level.

Investment: In a similar way investment is estimated as a ratio of the generated value added in each sub sector. We do some assumptions so that we end up with the best possible estimates given the existing information. For example the share of

investment out of value added in the sport retailing sector is assumed to be the same as in the retailing sector as a whole.

Commercial non-sport income

Income coming from consumer spending (net of tax): This is determined according to the flows of consumer expenditure. For example in the case of gambling, consumer spending is directed towards the Government as taxes and towards the Commercial Non-Sport sector as income.

Sales of current inputs to other sectors: These are determined again from the flows of the model. For example sales to the commercial sport sector are identified from a part of the commercial sport spending. The latter is directed either to the Commercial Non-Sport sector or overseas. This distribution is determined from the Input-Output tables.

Sales of capital inputs to other sectors: They are related to the capital expenditure of the Local Government, Commercial Sector and Voluntary sectors.

Commercial non-sport expenditure

Wages: Spending on wages is calculated as a percentage of total income accruing to the sector. This income can be expressed as wages, profits, or imports (before tax and investment decisions). The part of turnover directed towards wages can be estimated from a SIRC model based on the Input-Output tables for the UK.

Imports: They are estimated using the same method as above (wages).

Corporation tax: It is derived from the profits accruing to the sector (factor surplus, estimated as above) and the tax rate, estimated from the National Accounts (Blue Book).

Rates: The estimate is based on the value added generated in the sector and a model estimating rates as a percentage of value added for the two commercial sectors.

Sponsorship and advertising: They are estimated using non-official statistics and a SIRC model.

Lottery awards: They are estimated using data from DCMS and the Lottery Fund Accounts of the Sports Council.

Central Government income

Income accruing to the Central Government is mainly in the form of taxation. These estimates are determined from the tax rates and the flows within the SIRC model.

Central Government expenditure

Grants via Sports Council: Data are provided by the Sports Council's annual accounts.

Wages: Estimates are provided from the Sport Council's annual accounts.

Support for local government expenditure: It is determined in the local government income below.

Local Government income

Fees and charges: The estimates are based on the CIPFA publication Leisure and Recreation Statistics and on a SIRC model for the sector.

Sales of equipment: This is derived from a part of consumer spending on sport equipment above.

Grants from Central Government: Using the HM Treasury Budget Report, an estimate of grants from Central Government as a percentage of Local Authority receipts is derived. This is then applied to Local Government expenditure categories.

Rates: This is tax income received from the voluntary, commercial sport and commercial non-sport sectors. The estimates are derived from the flows of the SIRC model.

Local Government expenditure

Total expenditure on sport services: This is derived from CIPFA's Leisure and Recreation Statistics and a SIRC model for processing the data. This is then distributed into wages and other inputs.

Education: Spending on Education is derived from the Blue Book and the Government's Expenditure Plans (DES).

Capital expenditure: This is based on statistics from the Blue Book (table 5.3.7).