

Population, age structure and household overview Initial findings from first release of Census data at local authority level

March 2013

Planning Information, Planning and Building Standards, Services for Communities, The City of Edinburgh Council



Published by Planning Information, Planning & Building Standards, Services for Communities, City of Edinburgh Council

March 2013

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Whilst reasonable care has been taken in the analysis and presentation of this data, the report is offered for general guidance only and users should undertake their own verification if used for business critical purposes.

Detailed Census results together with further information on definitions, methodologies etc. are available from the 'Scotland's Census 2011' web site : <u>http://www.scotlandscensus.gov.uk/en/</u>

#### **<u>POPULATION GROWTH</u>** (Tables 1 and 2)

- Edinburgh's population grew by nearly 28,000 between the 2001 Census and the 2011 Census an increase of 6.2%. The city's population stood at 476,600 in 2011.
- In terms of absolute numbers this was the largest increase of any local authority area in Scotland. In percentage terms Edinburgh's growth was faster than the Scottish average (4.6%), but ranked 12<sup>th</sup> among the 32 local authorities. Two neighbouring areas, East and West Lothian, experienced particularly rapid growth of 10-11%.
- Although there has been a substantial growth in population, this has not been as fast as previously thought, based on the annual 'Mid Year Population Estimates' (MYPE) produced by National Records of Scotland (formerly General Register Office Scotland).
- The 2011 Census figure is 18,760 less than the 2011 MYPE (495,360). Population estimates and projections will need to be recalibrated by NRS in due course to reflect the detailed and comprehensive information from the Census.
- The discrepancies between the Census and previous estimates are concentrated in specific age groups, with a high proportion of the overcount occurring in the 25 to 34 year age group, and to lesser extent the 35 to 44 year age group. In contrast, the population of 20-24 year olds is some 2,400 *higher* than previously estimated.
- The most likely explanation for the previous over-estimation is the difficulty in sourcing reliable information on migration. In particular, there may have been significant outflows of 25 to 34 year olds from Edinburgh to surrounding local authorities which have not been picked up in administrative records such as GP registrations.
- The revised population figure for the city could have a number of **implications for service planning**, **funding bids and future land use allocations**.

#### AGE AND GENDER STRUCTURE (graphs 1 to 3 and table 1)

- Edinburgh has a **high proportion of young adults**, with 19.5% of the population in their 20s (exceeded only by Aberdeen) and 15.2% in their 30s (highest in Scotland).
- Edinburgh's pre-school population mirrors the Scottish average, comprising 5% of the total population. However, the **proportion of 5-14 year olds is significantly below average** (8.7% compared with 10.6%). Aberdeen was the only Scottish authority with a lower figure.
- As in the other Scottish cities, the proportion of the **population aged 40-59 is relatively low.** The same is true for people in their 60s and 70s (with only Glasgow having a lower proportion than Edinburgh in the former case, and West Lothian in the latter).
- Representation of the very oldest age groups (80+) is close to the Scottish average (4.3% of the Edinburgh total).
- 48.8% of the population is male just slightly above the national average of 48.5%.
- The census figures indicate that the male population in Edinburgh has increased much faster than the female population (8.2% compared with 4.4%). The reasons for this are not entirely clear. In-migration may have a differential effect on the gender balance, but under-enumeration of men in the 2001 census may be a contributory factor. In all but 3 of Scotland's local authorities population increase was biased towards males, but the imbalance was far greater in Edinburgh and Glasgow than anywhere else.
- Some age groups, notably 5-14, 35-39 and 65-74, have declined in absolute numbers contrary to the overall growth trend (Table 1). In the first two cases this is accounted for essentially by ageing of the younger school age and late 30s cohorts. In case of 65-74 year olds, post-retirement out-migration is likely to be the dominant factor, with all of Scotland's large cities experiencing a similar loss of people in this age group.
- Such trends highlight the complementary relationship between Edinburgh and its hinterland: As graphs 3 (a)-(f) show, the population groups which are under-represented in Edinburgh's

age profile (younger teenagers, pre-retirement, post-retirement) appear as 'bulges' in the profiles for the other Lothian authorities and the Scottish Borders.

- Each area has distinctive characteristics, e.g. Scottish Borders with its population highly skewed towards the older age groups, contrasting with West Lothian which has one of the most youthful populations in Scotland.
- In percentage terms, the fastest growing age groups in Edinburgh over the last decade have been the older working age population (22% growth in 55-64 year olds), pre-school children (18% growth) in 0-4 year olds, young adults (16% growth in 20-29 year olds), and the most elderly (13% growth in 80+). These groups will either progress to the next age band within Edinburgh or relocate to the city's wider hinterland over the next decade. Again, such changes in population structure will have significant implications for service provision.
- The differential growth of the male / female populations (previously noted) has resulted in some very large increases in the number of men in some age groups, e.g. 31% increase in 60-64 year old men and 30% growth in men aged 80+.

#### **DEPENDENCY RATIOS** (Table 3)

- The **dependency ratio for people aged under 15 has decreased** across Scotland from 27.1 in 2001 to 24.1. That is, there are now fewer children in Scotland as a proportion of the working age population. The reduction in the dependency ratio for the under 15s was experienced by all local authorities in Scotland.
- Aberdeen City is the only local authority in Scotland with a lower under 15s dependency ratio than Edinburgh.
- The dependency ratio for the over 65s has increased in Scotland, from 24.0 in 2001 to 25.1 in 2011. Edinburgh, however, along with Aberdeen, Glasgow and Dundee cities has experienced a **reduction in the over 65 dependency ratio** over the last decade.

#### HOUSEHOLDS AND LIVING ARRANGEMENTS (Tables 4 and 5)

- The average household size in Edinburgh is 2.07, down from 2.14 in 2001. This is below the Scottish average of 2.19 persons per household.
- The average household size in Edinburgh is lower than all of the other local authorities in South East Scotland (SESplan area), but higher than the other Scottish cities with the exception of Stirling.
- **39% of all households in Edinburgh comprise a single person**, compared to the Scottish average of 35%.
- Single person households are the most common household type in all of Scotland's cities. In all of the other SESplan authorities, the most common household type is 2 person households.
- The reduction in household size has meant that **household growth has been faster than population growth**. Since 2001, the number of households in Edinburgh has risen by 18,370. This represents an increase of 9% compared to the population increase of 6%.
- The increase in household numbers in Edinburgh was above the national increase and above that for other Scottish Cities. However, East Lothian, West Lothian and Scottish Borders all experienced a greater proportional growth in households.
- The population living in communal establishments has risen across Scotland at a greater rate than has the population living in households 15% compared to 4%. This has been particularly apparent in Scotland's Cities.
- The number of people living in communal establishments in Edinburgh has increased by one-third from 10,800 in 2001 to 14,300 in 2011. This is largely due to a number of student flats and halls of residence being built over the decade.

Table 1 : Edinburgh's population by age group, 2011(i) Population change by 5-year age group, 2001-2011 (Census base); and(ii) Comparison of 2011 Census and 2011 Mid Year Population Estimates (MYPES)

ALL PERSONS	(MALES + FEMALES)		figures in <b>red</b> signify <b>increases</b>		figures in blue signify decreases		
age groups	2011 Census pop'n	2001 Census pop'n	Pop. change 2001-11	% change 2001-11	2011 Mid Year Pop Estimate	2011 Census – MYPE	% diff -erence
TOTAL	476,600	448,624	+ 27,976	+ 6.2 %	495,360	- 18,760	- 3.9 %
0 to 4	26,200	22,170	+ 4,030	+ 18.2 %	26,709	- 509	- 1.9 %
5 to 9	20,500	22,986	- 2,486	- 10.8 %	21,326	- 826	- 4.0 %
10 to 14	21,100	23,375	- 2,275	- 9.7 %	21,091	+ 9	+ 0.0 %
15 to 19	28,500	27,568	+ 932	+ 3.4 %	27,808	+ 692	+ 2.4 %
20 to 24	47,800	41,709	+ 6,091	+ 14.6 %	45,426	+ 2.374	+ 5.0 %
25 to 29	45,300	38,250	+ 7,050	+ 18.4 %	52,566	- 7,266	-16.0 %
30 to 34	38,500	38,343	+ 157	+ 0.4 %	46,008	- 7,508	- 19.5 %
35 to 39	34,100	35,621	- 1,521	- 4.3 %	35,345	- 1,245	- 3.7 %
40 to 44	32,800	32,167	+ 633	+ 2.0 %	34,307	- 1,507	- 4.6 %
45 to 49	32,900	27,440	+ 5,460	+ 19.9 %	33,244	- 344	- 1.0 %
50 to 54	29,900	28,546	+ 1,354	+ 4.7 %	30,664	- 764	-2.6 %
55 to 59	25,500	21,479	+ 4,021	+18.7 %	25,488	+ 12	+ 0.0 %
60 to 64	25,100	19,880	+ 5,220	+ 26.3 %	25,454	- 354	- 1.4 %
65 to 69	18,100	18,866	- 766	- 4.1 %	18,341	- 241	- 1.3 %
70 to 74	16,000	17,358	- 1,358	- 7.8 %	15,826	+ 174	+ 1.1 %
75 to 79	13,800	14,629	- 829	- 5.7 %	14,221	- 421	- 3.1 %
80 +	20,600	18,237	+ 2,363	+ 13.0 %	21,536	- 936	- 4.5 %

MALES	figures in <b>re</b>	d signify incr	eases figu	ures in <mark>blue</mark> sig	gnify <b>decreases</b>		
age groups	2011 Census pop'n	2001 Census pop'n	Pop. change 2001-11	% change 2001-11	2011 Mid Year Pop Estimate	2011 Census – MYPE	% diff -erence
TOTAL	232,400	214,711	+ 17,689	+ 8.2 %	239,722	- 7,322	- 3.2 %
0 to 4	13,200	11,353	+ 1,847	+ 16.3 %	13,488	- 288	- 2.2 %
5 to 9	10,700	11,834	- 1,134	- 9.6 %	11,104	- 404	- 3.8 %
10 to 14	10,900	11,940	- 1,040	- 8.7 %	10,886	+ 14	+ 0.1 %
15 to 19	14,300	13,653	+ 647	+ 4.7 %	13,953	+ 347	+ 2.4 %
20 to 24	22,900	20,265	+ 2,635	+ 13.0 %	21,678	+ 1,222	+ 5.3 %
25 to 29	22,100	18,676	+ 3,424	+ 18.3 %	25,717	- 3,617	- 16.4 %
30 to 34	19,500	19,166	+ 334	+ 1.7 %	23,319	- 3,819	- 19.6 %
35 to 39	17,500	17,367	+ 133	+ 0.8 %	17,837	- 337	- 1.9 %
40 to 44	16,600	15,735	+ 865	+ 5.5 %	17,037	- 437	- 2.6 %
45 to 49	16,500	13,886	+ 2,614	+ 18.8 %	15,931	+ 569	+ 3.4 %
50 to 54	14,700	13,932	+ 768	+ 5.5 %	14,788	- 88	- 0.6 %
55 to 59	12,800	10,378	+ 2,422	+ 23.3 %	12,764	+ 36	+ 0.3 %
60 to 64	12,200	9,338	+ 2,862	+ 30.6 %	12,188	+ 12	+ 0.1 %
65 to 69	8,500	8,573	- 73	- 0.9 %	8,559	- 59	- 0.7 %
70 to 74	7,100	7,380	- 280	- 3.8 %	7,023	+ 77	+ 1.1 %
75 to 79	5,800	5,755	+ 45	+ 0.8 %	6,005	- 205	- 3.5 %
80 +	7,100	5,480	+ 1,620	+ 29.6 %	7,445	- 345	- 4.9 %

FEMALES	figures in <b>re</b>	d signify incr	eases figu	ires in <mark>blue</mark> sig	gnify <b>decreases</b>		
age groups	2011 Census pop'n	2001 Census pop'n	Pop. change 2001-11	% change 2001-11	2011 Mid Year Pop Estimate	2011 Census – MYPE	% diff -erence
TOTAL	244,200	233,913	+ 10,287	+ 4.4 %	255,638	- 11,438	- 4.7 %
0 to 4	12,900	10,817	+ 2,083	+ 19.3 %	13,221	- 321	- 2.5 %
5 to 9	9,800	11,152	- 1,352	- 12.1 %	10,222	- 422	- 4.3 %
10 to 14	10,200	11,435	- 1,235	- 10.8 %	10,205	- 5	- 0.0 %
15 to 19	14,200	13,915	+ 285	+ 2.0 %	13,855	+ 345	+ 2.4 %
20 to 24	24,900	21,444	+ 3,456	+ 16.1 %	23,748	+ 1,152	+ 4.6 %
25 to 29	23,200	19,574	+ 3,626	+ 18.5 %	26,849	- 3,649	- 15.7 %
30 to 34	19,100	19,177	- 77	- 0.4 %	22,689	- 3,589	- 18.8 %
35 to 39	16,600	18,254	- 1,654	- 9.1 %	17,508	- 908	- 5.5 %
40 to 44	16,200	16,432	- 232	- 1.4 %	17,270	- 1,070	- 6.6 %
45 to 49	16,400	13,554	+ 2,846	+ 21.0 %	17,313	- 913	- 5.6 %
50 to 54	15,200	14,614	+ 586	+ 4.0 %	15,876	- 676	- 4.4 %
55 to 59	12,700	11,101	+ 1,599	+ 14.4 %	12,724	-24	- 0.2 %
60 to 64	12,900	10,542	+ 2,358	+ 22.4 %	13,266	- 366	- 2.8 %
65 to 69	9,600	10,293	- 693	- 6.7 %	9,782	- 182	- 1.9 %
70 to 74	8,900	9,978	- 1,078	- 10.8 %	8,803	+ 97	+ 1.1 %
75 to 79	7,900	8,874	- 974	- 11.0 %	8,216	- 316	- 4.0 %
80 +	13,600	12,757	+ 843	+ 6.6 %	14,091	- 491	- 3.6 %

note : 2011 Census data as released by GROS / NRS have been rounded to nearest 100; see graphs for % composition by age group

# Table 2 : Population change 2001 – 2011 : Edinburgh comparisons (selected LAs)(i) Population change 2001-2011 (Census base); and(ii) Comparison of 2011 Census and 2011 Mid Year Population Estimates (MYPEs)

ALL PERSONS	(MALES + FEMALES)			red signifies increases		blue signifies decreases	
selected local authorities	2011 Census pop'n	2001 Census pop'n	Pop. change 2001-11	% change 2001-11	2011 Mid Year Pop Estimate	2011 Census – MYPE	% diff -erence
Scotland	5,295,400	5,062,011	+ 233,389	+ 4.6 %	5,254,800	+ 40,600	+ 0.8 %
Edinburgh	476,600	448,624	+ 27,976	+ 6.2 %	495,360	- 18,760	- 3.9 %
Glasgow	593,200	577,869	+ 15,331	+ 2.7 %	598,830	- 5,630	- 0.9 %
Aberdeen	222,800	212,125	+ 10,675	+ 5.0 %	220,420	+ 2,380	+ 1.1 %
Dundee	147,300	145,663	+ 1,637	+ 1.1 %	145,570	+ 1,730	+ 1.2 %
Stirling	90,200	86,212	+ 3,988	+ 4.6 %	90,770	- 570	- 0.6 %
East Loth.	99,700	90,088	+ 9,612	+ 10.7 %	98,170	+ 1,530	+ 1.5 %
Midlothian	83,200	80,941	+ 2,259	+ 2.8 %	82,370	+ 830	+ 1.0 %
West Loth.	175,100	158,714	+ 16,386	+ 10.3 %	172,990	+ 2,110	+ 1.2 %
Sc Borders	113,900	106,764	+ 7,136	+ 6.7 %	113,150	+ 750	+ 0.7 %
Fife	365,200	349,429	+ 15,771	+ 4.5 %	367,370	- 2,170	- 0.6 %

#### Table 3 : Dependency Ratios

	Dependency Ratio under 15s		Dependency Ratio over 65s		
Local Authority	2001	2011	2001	2011	
Scotland	27.1	24.1	24.0	25.1	
Edinburgh	22.0	19.9	22.2	20.1	
Glasgow	25.6	21.2	23.4	19.5	
Aberdeen	22.0	18.7	22.0	19.9	
Dundee	25.0	21.9	26.8	24.4	
Stirling	27.0	24.7	23.4	25.9	
East Lothian	31.1	26.9	27.4	27.5	
Midlothian	30.0	26.7	22.9	25.4	
West Lothian	30.3	28.0	16.9	20.2	
Scottish Borders	27.8	24.9	29.7	33.0	
Fife	28.0	24.9	24.8	26.6	

dependency ratio is the number of persons aged under 15 or 65+ per 100 people aged 15-64

### (a) 2011 Census

Local Authority	Population	Households	Population in households	Population in communal estabs.	Average household size
Scotland	5,295,400	2,372,780	5,196,400	99,000	2.19
Edinburgh	476,600	223,050	462,300	14,300	2.07
Glasgow	593,200	285,690	578,200	15,000	2.02
Aberdeen	222,800	103,370	214,200	8,600	2.07
Dundee	147,300	69,190	142,100	5,200	2.05
Stirling	90,200	37,570	85,900	4,400	2.29
East Lothian	99,700	42,910	97,800	1,900	2.28
Midlothian	83,200	34,980	82,300	900	2.35
West Lothian	175,100	73,400	173,300	1,800	2.36
Scottish Borders	113,900	52,500	112,600	1,300	2.14
Fife	365,200	160,950	357,400	7,800	2.22

### (b) 2001 Census

Local Authority	Population	Households	Population in households	Population in communal estabs.	Average household size
Scotland	5,062,000	2,192,250	4,976,000	86,000	2.27
Edinburgh	448,600	204,680	437,800	10,800	2.14
Glasgow	577,900	271,600	566,000	11,900	2.08
Aberdeen	212,100	97,010	206,500	5,600	2.13
Dundee	145,700	66,910	142,500	3,200	2.13
Stirling	86,200	35,510	83,700	2,500	2.36
East Lothian	90,100	38,160	89,000	1,100	2.33
Midlothian	80,900	32,920	80,000	900	2.43
West Lothian	158,700	64,900	157,600	1,100	2.43
Scottish Borders	106,800	47,370	105,400	1,400	2.22
Fife	349,400	150,270	343,000	6,400	2.28

(c) Change 2001 to 2011 : Numbers		red signifies incre	eases blue sig	blue signifies decreases	
Local Authority	Population	Households	Population in households	Population in communal estabs.	
Scotland	+ 233,400	+ 180,530	+ 220,400	+ 13,000	
Edinburgh	+ 28,000	+ 18,370	+ 24,500	+ 3,500	
Glasgow	+ 15,300	+ 14,090	+ 12,200	+ 3,100	
Aberdeen	+ 10,700	+ 6,360	+ 7,700	+ 3,000	
Dundee	+ 1,600	+ 2,280	- 400	+ 2,000	
Stirling	+ 4,000	+ 2,060	+ 2,200	+ 1,900	
East Lothian	+ 9,600	+ 4,750	+ 8,800	+ 800	
Midlothian	+ 2,300	+ 2,060	+ 2,300	+ 0	
West Lothian	+ 16,400	+ 8,500	+ 15,700	+ 700	
Scottish Borders	+ 7,100	+ 5,130	+ 7,200	- 100	
Fife	+ 15,800	+ 10,680	+ 14,400	+ 1,400	

#### (d) Change 2001 to 2011 : Percent red signifies increases

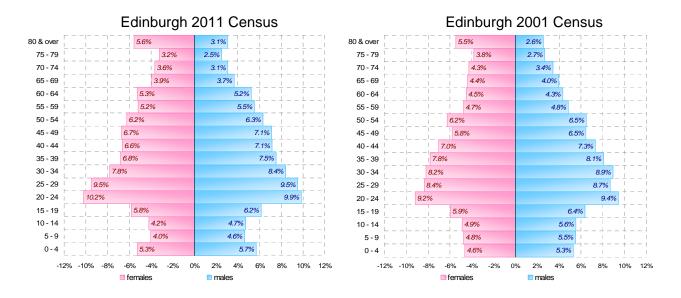
blue signifies decreases

Local Authority	Population	Households	Population in households	Population in communal estabs.
Scotland	+ 4.6 %	+ 8.2 %	+ 4.4 %	+ 15.1 %
Edinburgh	+ 6.2 %	+ 9.0 %	+ 5.6 %	+ 32.4 %
Glasgow	+ 2.6 %	+ 5.2 %	+ 2.2 %	+ 26.1 %
Aberdeen	+ 5.0 %	+ 6.6 %	+ 3.7 %	+ 53.6 %
Dundee	+ 1.1 %	+ 3.4 %	- 0.3 %	+ 62.5 %
Stirling	+ 4.6 %	+ 5.8 %	+ 2.6 %	+ 76.0 %
East Lothian	+ 10.7 %	+ 12.4 %	+ 9.9 %	+ 72.7 %
Midlothian	+ 2.8 %	+ 6.3 %	+ 2.9 %	+ 0.0 %
West Lothian	+ 10.3 %	+ 13.1 %	+ 10.0 %	+ 63.6 %
Scottish Borders	+ 6.6 %	+ 10.8 %	+ 6.8 %	- 7.1 %
Fife	+ 4.5 %	+ 7.1 %	+ 4.2 %	+ 21.9 %

Table 5	: Households b	y Number of Residents, 2	2011
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			% of all o	ccupied hou	seholds	
Local Authority	Households	1 person	2 person	3 persons	4 persons	5+ persons
Scotland	2,372,780	34.7	34.0	15.1	11.5	4.7
Edinburgh	223,050	39.1	33.5	13.7	9.8	4.0
Glasgow	285,690	43.1	30.3	13.7	8.5	4.3
Aberdeen	103,370	37.9	34.8	14.1	9.5	3.7
Dundee	69,190	40.4	32.4	14.1	9.1	3.9
Stirling	37,570	30.6	35.4	15.6	13.1	5.3
East Lothian	42,910	30.6	35.4	15.7	13.4	4.9
Midlothian	34,980	27.4	36.3	17.2	13.6	5.5
West Lothian	73,400	28.5	34.0	17.6	14.3	5.5
Scottish Borders	160,950	31.8	36.6	15.3	11.6	4.7
Fife	52,500	34.4	37.2	13.3	10.9	4.2

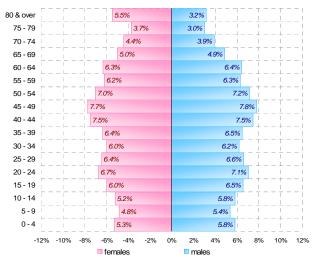
## Graph 1 (a) to (e) : % composition of population by gender and 5 year age groups: Edinburgh and Scotland, 2011, and comparison with 2001



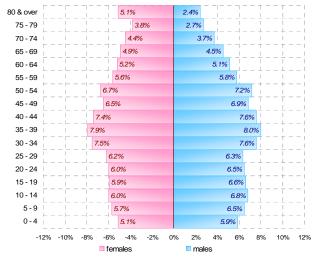
(Edinburgh 2011 Mid Year Population Estimate)



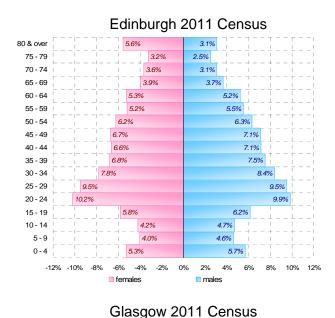
Scotland 2011 Census



#### Scotland 2001 Census

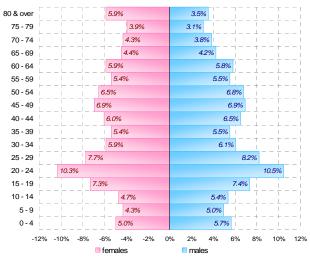


## Graph 2 (a) to (e) : % composition of population by gender and 5 year age groups: Edinburgh and other Scottish cities, 2011

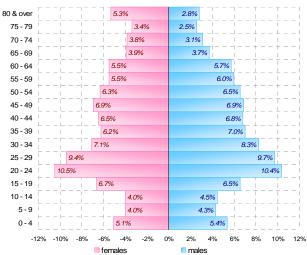


5.9% 80 & over 2.5% 75 - 79 3.9% 2.4% 70 - 74 4.3% 3.0% 4.4% 65 - 69 3.7% 60 - 64 5.9% 4.9% 5.4% 5.4% 55 - 59 6.5% 50 - 54 6.4% 45 - 49 6.9% 7.3% 40 - 44 6.0% 7.4% 35 - 39 7.1% 5.4% 30 - 34 5.9% 8.1% 7.7% 25 - 29 9.5% 20 - 24 10.3% 9.5% 15 - 19 6.9% 7.3% 10 - 14 4.7% 5.2% 5 - 9 4.3% 4.8% 0 - 4 5.0% 5.8% -12% -10% -8% -6% -4% 2% -2% 0% 4% 6% 8% 10% 12% females males

Dundee 2011 Census



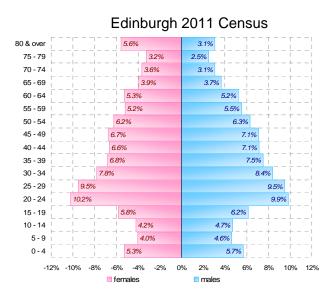




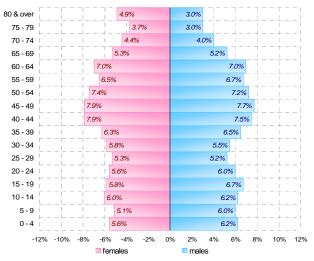




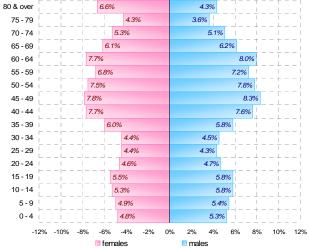
### Graph 3 (a) to (f) : % composition of population by gender and 5 year age groups: Edinburgh and neighbouring local authorities in South East Scotland, 2011

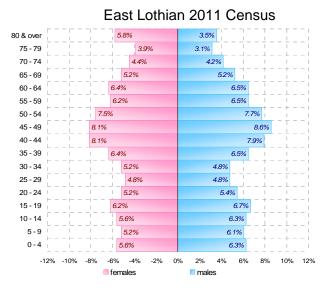


Midlothian 2011 Census

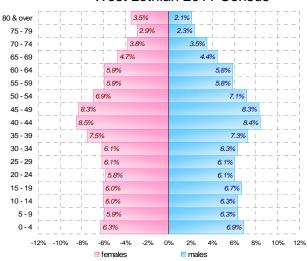


Scottish Borders 2011 Census





West Lothian 2011 Census



Fife 2011 Census



## Graph 4 : Difference between 2011 Census population and 2011 Mid Year Population Estimate, Edinburgh, by gender and age group

(Census minus MYPE)

