

Household Analysis Review Group: Report on Communal Establishments (CEs)

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**The results presented in this paper are provisional.
They may differ from the final figures used in the household projections published.
Please treat these figures as 'restricted' until after publication in May.**

1. Purpose

1.1 In the household projection process, the private household population is calculated by subtracting the population who reside in communal establishments from the total population. For the 2006-based household projections GROS intends to use 2006 communal establishment figures instead of 2001 Census figures that have been used in the 2002-based and 2004-based projections. This paper describes the sources of the 2006 communal establishment figures, an analysis of the communal establishment figure and the feedback given through consultation with PAMS LA members.

1.2 HARG members are invited to state whether they are satisfied that the 2006 communal establishment figures should be included in the 2006-based projections.

2. Background

As previously discussed at HARG, a better source of data on CEs would help improve the quality of household projections, by providing figures that are more up to date than those from the last Census in 2001. For the 2006-based projections, GROS intend to use 2006 CE data from alternative sources where possible, supplemented by Census data for CEs where an alternative source has not yet been found.

Advantages of alternative sources of CE data

- The CE data included in the projections is more up to date.
- It includes detailed information about each CE type. Changes such as the opening and closing of CEs are reflected in the figures.

Disadvantages of alternative sources of CE data

- It incorporates figures from different sources and different years.
- Some imputation is required.
- Some sources may overlap.

3. Data sources

Table 1: Sources for the 2006 Communal Establishment data.

Type of CE	Data source	Date
Children's Care Home	Care Commission SG Children Looked After Statistics	30 June 2006
Prison	SG Prison Statistics	30 June 2006
Geriatric Hospital	ISD SHRUGS ¹ ISD SMR50 ²	31 May 2006 31 March 2006
Psychiatric Hospital	ISD SMR04 ³	June 2005
Student Hall of Residence	GROS SAPE student term time data collection GROS FE Colleges data collection	2006/2007
Adult Care Home	SG Health Statistics	March 2006
Defence establishment (inc ships)	GROS Armed Forces data collection DASA TSP 10 Regular Forces Stationed Location ⁴ DASA TSP 8 Regular Forces by Age and Sex	June 2006
Residential School	2001 Census	April 2001
Hotel and Boarding House	2001 Census	April 2001
Hostel	2001 Census	April 2001
Civilian ship, barge or boat	2001 Census	April 2001
Other	2001 Census	April 2001

Notes on alternative data sources.**Children's Care Home:**

Some imputation was required to obtain the number of long stay residents in a care home by gender and age group.

Prisons:

Prisoners with a sentence greater or equal to 12 months were included in the CE figures.

Hospitals:

Checks were made to ensure that there were no overlaps with the Adult Care Homes data.

Student Halls of Residence:

¹ ISD SHRUGS: Scottish Health Resource Utilisation Groups – collects data to describe the characteristics of elderly long stay patients within hospitals.

² ISD SMR50: Geriatric Long Stay Record – Collects patient based data on inpatient admissions to and discharges from hospitals and units providing long stay geriatric care.

³ Mental Health inpatient record: Collects patient based data on day cases and inpatient admissions/discharges from Psychiatric Hospitals and Units.

⁴ DASA (Defence Analytical Services Agency) - www.dasa.mod.uk

Some imputation was required to obtain the age profile of students aged 30+.

Adult Care Homes:

Checks were made to ensure that there were no overlaps with the Hospitals data.

Defence establishments:

Some imputation was required to obtain the number of personnel in barracks by gender and age group.

Residential School, Hotels, Hostels, Civilian Ships and other:

Data taken from the 2001 Census.

4. Consultation with PAMS LA members

In February, GROS sent each council the figures on residents in CEs in their area for consultation. 14 out of the 32 council areas responded to the consultation request. The councils were generally happy with the figures but some were concerned that the figures for prisons, adult care homes and hospitals should be slightly higher. Further investigation showed that councils tend to have figures related to the capacity of an institution whereas the GROS figures relate to only long stay residents which may be the reason behind some of the differences. We have replied to each council to discuss their individual concerns.

5. Results of provisional 2006-based household projections

Table 2 shows the 2006 communal establishment figures for Scotland by council area and by the type of establishment.

Table 3 compares the 2001 and 2006 communal establishment figures by council area and age group. There has been a slight decrease in the number of CE residents in most council areas except for Aberdeen City, Edinburgh, Fife, Glasgow City and Stirling. The increases in these council areas are mainly due to the increase in the number of students living in halls of residence and this is reflected in the increases in the 16-29 and 30-44 age groups. In council areas with universities there has been a large increase in the number of halls of residence places since 2001, including those provided by the private providers such as Liberty Living and Unite. For those in the 75+ age groups there has been a decrease in the number of people living in communal establishments. This may be due to closures of care homes and a decrease in the number of places available, with more people being supported to live in their own homes.

Table 4 compares the projected number of households by council area using the 2001 CE figures and the 2006 CE figures. The projections using the 2006 CE figures tend to be slightly higher than those produced using the 2001 Census figures. For Scotland the overall difference between the two sets of projections is an extra 7,000 households over the 25 year projection period. There is also a very small increase or no percentage change in the number of households between 2006 and 2031 for all council areas.

Chart 1 compares the projected number of households in Scotland in 2031 by household type using the 2001 and 2006 CE figures. Here it can be seen that using the 2006 CE figures makes very little difference to the projected number of households by household type.

Chart 2 compares the projected number of households in Scotland in 2031 by age group using the 2001 and 2006 CE figures. Again there is very little difference between the two

sets of projections except for an increase in the number of households headed by those aged 75+ when the 2006 CE figures are used.

6. Next steps

If HARG members are in agreement, GROS will include the 2006 CE figures in the 2006-based household projections calculation. Otherwise the 2001 CE figures from the Census will be used as in previous years' projections.

After the household projections publication in May, work will continue on trying to improve the quality of the data held for CEs and further alternative sources will be investigated for the 2008 CE data collection.

HARG members are asked to state whether they are satisfied that the 2006 communal establishment figures should be included in the 2006-based projections.

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March 2008

Table 2: Number of communal establishment residents in 2006 for Scotland by type and council area.

2006 Communal Establishments Local Authority	Adult Care Homes	Children's Care	Residential Schools	Geriatric hospital	Psychiatric hospital	Armed Forces	Prisons	Student Halls of Residence	Hotels and boarding houses		Civilian ships	Others	Total
									Hostels				
Aberdeen City	1584	38	26	41	357	0	104	4803	137	180	0	129	7399
Aberdeenshire	1545	22	8	34	99	15	301	0	180	0	0	12	2216
Angus	846	43	0	92	152	0	150	0	46	3	0	1	1333
Argyll & Bute	545	28	119	70	61	823	0	0	252	70	0	115	2083
Clackmannanshire	225	5	117	6	15	0	429	0	2	0	0	8	807
Dumfries & Galloway	848	72	63	66	86	0	137	0	101	12	0	190	1575
Dundee City	825	39	20	20	66	0	0	1738	33	218	0	66	3025
East Ayrshire	661	25	39	14	29	0	420	0	0	29	0	18	1235
East Dunbartonshire	448	43	20	0	76	0	146	0	11	0	0	35	779
East Lothian	561	15	273	23	27	0	0	0	62	3	0	38	1002
East Renfrewshire	424	5	1	40	0	0	0	0	1	0	0	50	521
Edinburgh, City of	2584	116	894	121	537	1009	481	8681	157	355	0	206	15141
Eilean Siar	155	5	0	9	55	7	0	0	13	0	0	4	248
Falkirk	801	25	0	36	123	0	327	0	14	34	0	22	1382
Fife	1972	74	39	70	574	734	0	3445	94	120	0	104	7226
Glasgow City	3573	168	20	270	972	14	615	7488	79	862	0	170	14231
Highland	1644	52	95	20	96	480	42	43	433	99	0	346	3350
Inverclyde	619	40	0	18	111	0	175	0	4	45	0	18	1030
Midlothian	570	11	0	20	29	7	0	0	7	0	0	25	669
Moray	462	11	450	44	46	1255	0	0	21	23	0	94	2406
North Ayrshire	875	33	35	25	5	0	0	0	58	52	0	61	1144
North Lanarkshire	1521	57	0	71	315	0	507	0	3	50	0	152	2676
Orkney Islands	93	8	64	13	0	0	0	0	11	0	0	3	192
Perth & Kinross	1192	10	1093	6	145	0	492	0	597	80	0	55	3670
Renfrewshire	1029	146	0	74	336	0	0	575	14	8	0	72	2254
Scottish Borders	686	10	24	24	41	0	0	0	90	12	0	16	903
Shetland Islands	102	14	73	8	0	0	0	3	25	25	2	19	270
South Ayrshire	778	15	0	27	148	48	0	180	97	18	0	86	1397
South Lanarkshire	2104	53	33	101	231	0	0	146	0	57	0	35	2760
Stirling	562	24	327	14	15	0	177	2628	202	26	0	64	4039
West Dunbartonshire	424	25	0	6	21	0	0	0	5	8	0	30	519
West Lothian	716	28	30	29	57	0	0	170	10	38	0	62	1140
Scotland	30974	1261	3939	1412	4825	4392	4503	29900	2759	2427	2	2306	88624

Table 3: Comparison of 2006 and 2001 Census communal establishment figures by age group and council area.

Persons	All ages		0-15		16-29		30-44		45-59		60-74		75-84		85+	
	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006
SCOTLAND	86,006	88,624	3,526	3,587	27,865	37,703	7,787	8,950	5,312	5,519	7,722	6,359	14,412	11,765	19,382	14,742
Council areas																
Aberdeen City	5,609	7399	114	93	2,983	4,997	327	464	231	326	351	340	687	533	916	646
Aberdeenshire	2,893	2216	36	44	280	146	257	215	284	251	328	255	666	541	1,042	765
Angus	1,955	1333	28	40	349	82	168	153	112	134	197	143	414	310	687	471
Argyll & Bute	3,903	2083	149	149	1,600	621	1,044	491	171	151	162	138	302	224	475	309
Clackmannanshire	953	807	46	47	341	231	243	239	71	98	44	51	87	64	121	77
Dumfries & Galloway	1,983	1575	105	122	271	176	175	161	141	153	192	151	466	346	633	467
Dundee City	3,162	3025	47	57	1,525	1,763	190	175	210	180	279	205	384	283	527	363
East Ayrshire	1,635	1235	52	58	282	198	228	262	91	87	173	139	340	198	469	292
East Dunbartonshire	1,278	779	71	41	301	100	185	136	115	58	114	91	200	142	292	211
East Lothian	1,132	1002	197	206	129	131	27	16	53	30	103	92	241	223	382	305
East Renfrewshire	664	521	1	6	3	2	12	11	29	13	78	65	206	186	335	239
Edinburgh, City of	10,831	15141	549	583	5,465	9,596	821	1,549	435	591	580	562	1,166	1,006	1,815	1,254
Eilean Siar	337	248	2	4	15	11	20	17	11	20	38	27	97	60	154	108
Falkirk	1,734	1382	7	22	342	362	150	76	155	100	240	155	392	324	448	344
Fife	6,442	7226	155	107	3,160	3,876	343	649	244	348	368	375	884	805	1,288	1,065
Glasgow City	11,895	14231	165	241	5,148	7,759	945	1,317	749	773	1,250	1,076	1,714	1,508	1,924	1,557
Highland	3,563	3350	78	111	832	882	381	460	299	315	363	310	722	543	888	730
Inverclyde	1,148	1030	4	34	65	97	115	131	141	134	202	173	304	221	317	239
Midlothian	901	669	3	12	45	15	69	57	78	77	134	99	262	164	310	246
Moray	2,069	2406	205	210	901	775	229	677	88	216	89	69	231	191	326	268
North Ayrshire	1,390	1144	111	72	136	117	56	48	72	72	154	111	359	332	502	392
North Lanarkshire	2,944	2676	71	49	271	254	369	368	258	290	474	396	764	678	737	641
Orkney Islands	211	192	42	47	33	27	13	8	11	7	15	11	34	39	63	53
Perth & Kinross	4,092	3670	746	623	1,174	1,066	466	469	293	330	246	223	429	414	738	545
Renfrewshire	2,160	2254	117	124	192	633	161	142	153	120	323	225	579	486	635	524
Scottish Borders	1,382	903	22	19	237	89	93	97	113	63	135	103	283	214	499	318
Shetland Islands	310	270	20	32	98	99	32	22	17	11	15	13	49	37	79	56
South Ayrshire	1,659	1397	8	17	304	275	146	103	153	114	172	130	392	285	484	472
South Lanarkshire	3,404	2760	61	68	171	224	307	141	294	245	488	354	895	763	1,188	964
Stirling	2,482	4039	249	264	1,149	2,864	160	233	120	127	153	106	271	172	380	273
West Dunbartonshire	753	519	20	29	18	15	22	14	47	29	107	57	240	162	299	213
West Lothian	1,132	1140	45	55	45	218	33	49	73	58	155	116	352	311	429	334

Table 4: Comparison of projected number of households by council area, using 2001 and 2006 CE figures.

Local Authority	2011		2016		2021		2026		2031		Change 2006 - 2031		% Change		Average annual change	
	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006	2001	2006
	Aberdeen City	105471	105503	106992	107108	107062	107256	106644	106881	105502	105765	4751	5014	5	5	190
Aberdeenshire	105527	105586	112547	112699	119402	119700	125658	126170	130811	131590	32037	32816	32	33	1281	1313
Angus	51061	51088	52857	52930	54461	54597	55814	56037	56826	57133	7749	8056	16	16	310	322
Argyll & Bute	41705	41723	42646	42700	43578	43680	44276	44424	44404	44577	3313	3486	8	8	133	139
Clackmannanshire	23283	23286	24580	24591	25797	25825	26906	26963	27799	27885	5872	5958	27	27	235	238
Dumfries & Galloway	68550	68585	70337	70428	71707	71876	72686	72965	73049	73436	6267	6654	9	10	251	266
Dundee City	69177	69204	69585	69639	69406	69499	69090	69232	68690	68869	946	1125	1	2	38	45
East Ayrshire	53178	53192	54304	54350	55102	55204	55495	55673	55431	55682	3533	3784	7	7	141	151
East Dunbartonshire	42803	42832	43012	43082	42928	43041	42539	42707	41662	41887	-1150	-925	-3	-2	-46	-37
East Lothian	42871	42876	45268	45278	47925	47945	50540	50583	52841	52912	12420	12491	31	31	497	500
East Renfrewshire	35894	35915	36568	36618	37187	37276	37712	37842	38005	38176	2473	2644	7	7	99	106
Edinburgh, City of	230073	230096	245443	245543	259446	259674	273630	273971	287447	287885	73180	73618	34	34	2927	2945
Eilean Siar	11935	11938	12329	12336	12660	12677	12933	12966	13107	13154	1424	1471	12	13	57	59
Falkirk	69999	70011	73664	73693	77016	77076	80119	80234	82682	82843	16061	16222	24	24	642	649
Fife	165151	165187	174504	174572	183302	183432	191352	191590	198476	198858	41563	41945	26	27	1663	1678
Glasgow City	288405	288398	299871	299902	308650	308740	315361	315505	320554	320750	41653	41849	15	15	1666	1674
Highland	102540	102592	107911	108045	112770	113012	116961	117353	120346	120890	24075	24619	25	26	963	985
Inverclyde	36687	36689	36869	36891	36781	36820	36344	36411	35528	35624	-1164	-1068	-3	-3	-47	-43
Midlothian	34341	34358	34930	34983	35412	35513	35736	35895	35598	35811	1901	2114	6	6	76	85
Moray	39396	39444	40482	40578	41250	41381	41674	41847	41498	41711	3506	3719	9	10	140	149
North Ayrshire	62317	62323	64230	64257	65767	65836	66785	66914	67271	67457	6421	6607	11	11	257	264
North Lanarkshire	147461	147484	153882	153955	159484	159628	164352	164590	168419	168739	27453	27773	19	20	1098	1111
Orkney Islands	9537	9538	10270	10272	10903	10906	11479	11487	11988	12004	3121	3137	35	35	125	125
Perth & Kinross	66749	66776	71291	71350	75646	75746	79776	79941	83703	83953	21076	21326	34	34	843	853
Renfrewshire	78972	78972	79903	79918	80331	80388	80263	80375	79620	79767	2070	2217	3	3	83	89
Scottish Borders	52589	52604	55448	55484	58232	58306	60814	60947	63029	63222	12993	13186	26	26	520	527
Shetland Islands	9671	9675	9999	10011	10237	10259	10401	10439	10425	10486	860	921	9	10	34	37
South Ayrshire	51777	51783	53115	53130	54228	54258	55010	55061	55389	55457	4875	4943	10	10	195	198
South Lanarkshire	140141	140180	147285	147395	153959	154171	159877	160223	164962	165437	32002	32477	24	24	1280	1299
Stirling	38978	38933	41095	41041	42920	42900	44572	44592	46038	46078	8833	8873	24	24	353	355
West Dunbartonshire	42026	42029	42875	42892	43477	43516	43656	43725	43322	43430	2199	2307	5	6	88	92
West Lothian	75197	75209	80386	80428	85471	85564	90309	90474	94718	94954	24482	24718	35	35	979	989
Scotland	2393463	2394009	2494480	2496103	2582498	2585703	2658765	2664020	2719142	2726423	426797	434078	19	19	17072	17363

Chart 1: Comparison of the projected number of households by type in 2031 using 2001 and 2006 CE figures.

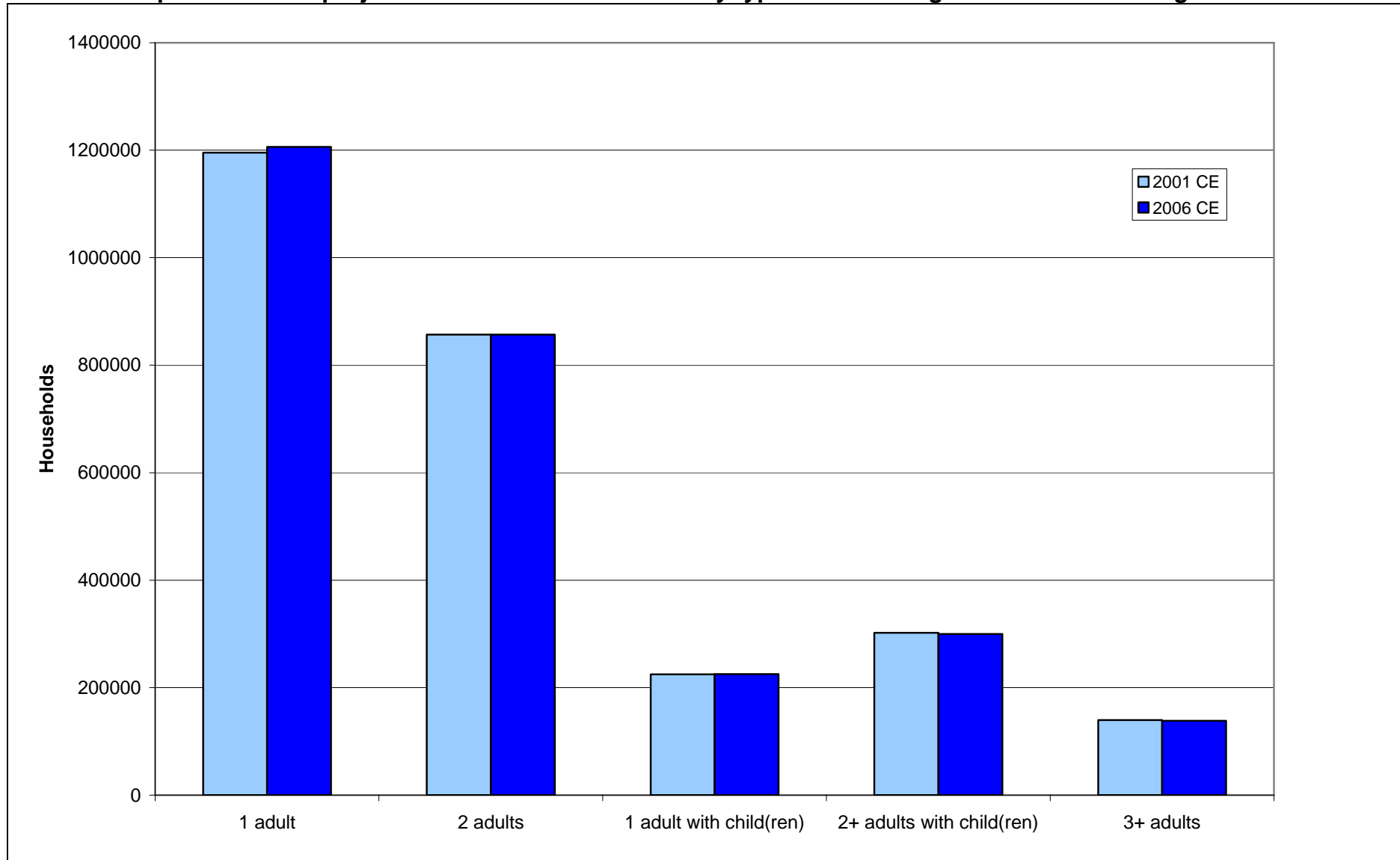


Chart 2: Comparison of the projected number of households by age of head of household in 2031 using 2001 and 2006 CE figures.

