

Projections Community Planning Partnership areas in Glasgow

Jan Freeke – Glasgow City Council

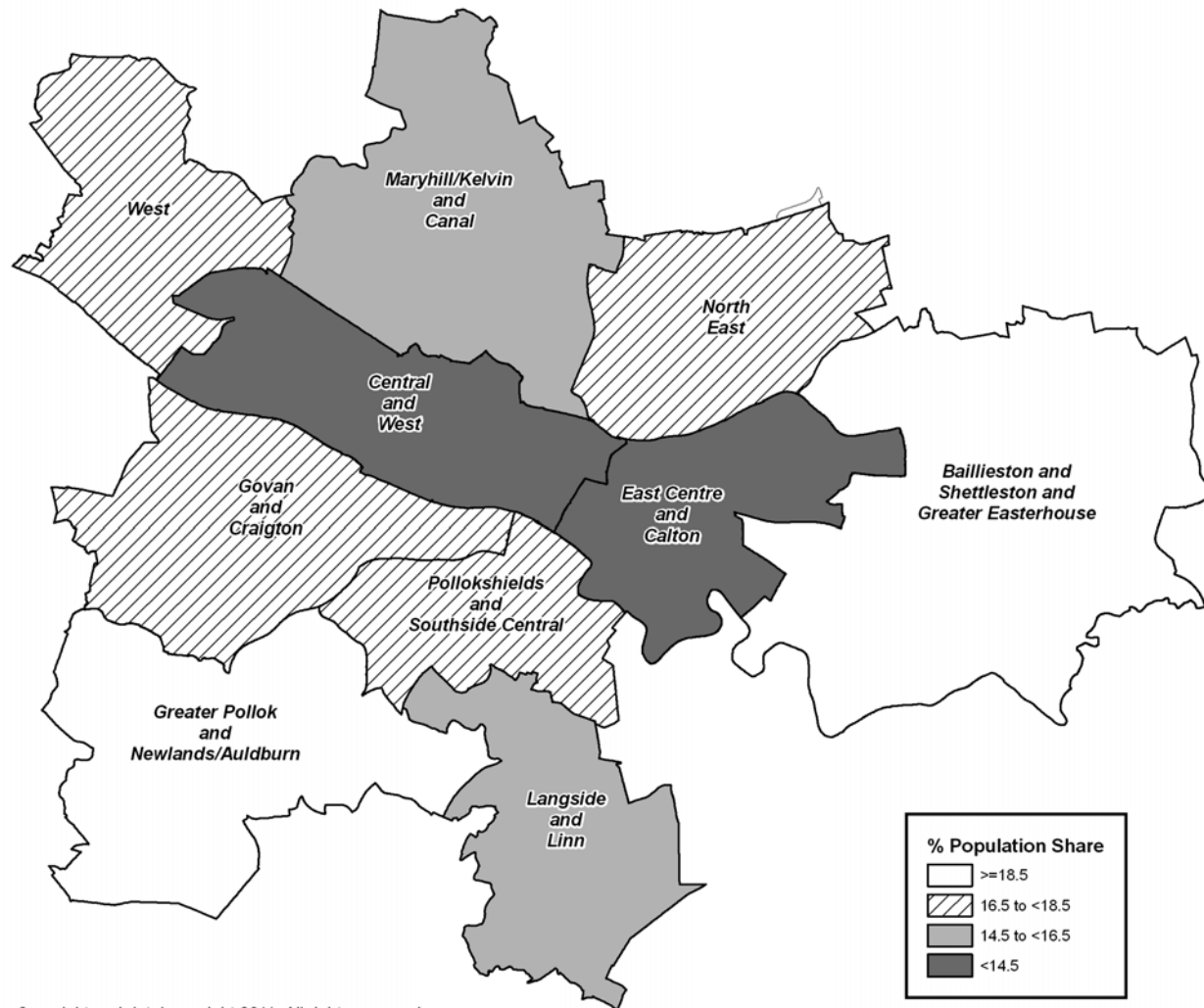


Graph 1 - Estimated Annual Population Change 2001-2008 for Community Planning Partnership areas in Glasgow City



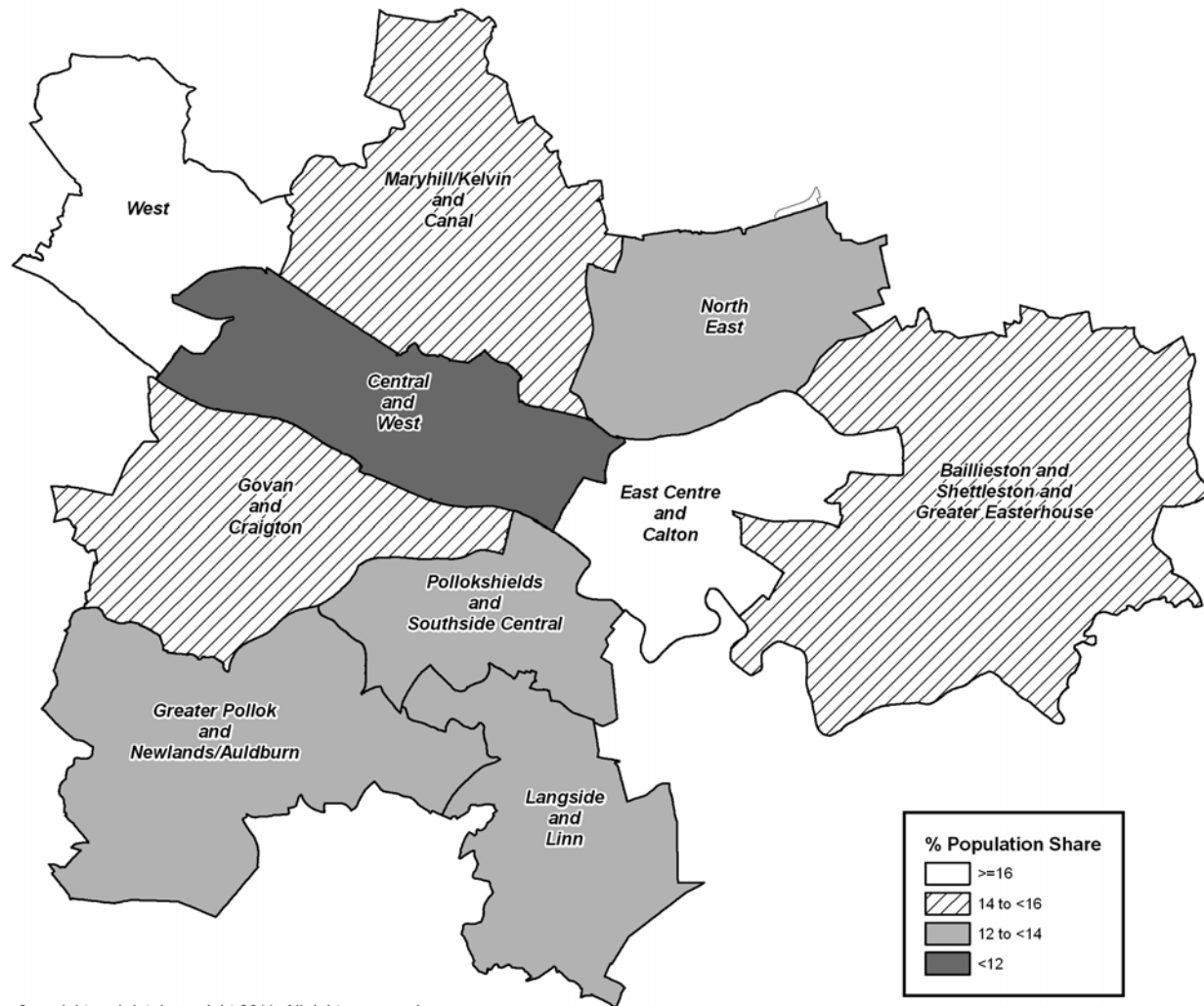
© Crown Copyright and database right 2011. All rights reserved.
Ordnance Survey Licence number 100023379. 04/05/2011

Graph 3 - Population Share for Children (age 0 to 15) in 2008



© Crown Copyright and database right 2011. All rights reserved.
Ordnance Survey Licence number 100023379. 04/05/2011

Graph 7 - Population Share for Pensioners (age 65+) in 2008



© Crown Copyright and database right 2011. All rights reserved.
Ordnance Survey Licence number 100023379. 04/05/2011

Background: 2008 Estimates

- Population estimates CPP areas based on 2008 population estimates by Data Zone
- Household estimates based on 2001 Census-based estimates by Data Zone updated to 2008, using changes in occupied stock 2001-2008 by Data Zone.
- Household estimates controlled to City-wide 2008 household estimates from HNDA

Background: Projections 2008-base

- Projections controlled to Glasgow City Projections from HNDA planning scenario
- Main difference with NRS 2008-base projections: higher migration assumptions

	Annual net migration	
	NRS	HNDA
1998-2008	496	496
2008-2018	10	353
2018-2028	-550	864

Background: Projections 2008-base

- Population projections should take into account projected house building and demolitions:
- Two variants:
 - Initial projections, based on annual net migration levels in 2001-2008
 - Main projections, based on projected housing stock 2008-2018

Assumptions: Projections 2008-base

Fertility:

- fertility rates (age schedule) are from NRS 2008-base projections, adjusted by ratio actual/calculated births for 2003-2008 (using Scottish fertility rates).
- fertility differentials for future years come from assumed mid-year to mid-year fertility rates per 1,000 females at each age (ONS 2008-base for Scotland).

Mortality:

- mortality rates (age schedules for males and females) are from NRS 2008-base projections, adjusted by ratio actual/calculated deaths (using Scottish mortality rates).
- mortality differentials for future years come from assumed mid-year to mid-year mortality rates per 1,000 males or females at each age (ONS 2008-base for Scotland).

Assumptions: Projections 2008-base

Migration into/out of Glasgow:

- schedule rates by *single age/sex* from NRS assumed in- or out-migration divided by population at base year by age/sex.
- calculation of **in- and out- migration control values** by **5 year age band/sex** in spreadsheet outside model, using 2001 Census data on inflows by age/sex, estimated net migration 2001-2008 from dumpfile and calculated outflows by age/sex. Adjustment of inflows and outflows by age/sex for CPP areas in future years from the projected City-wide net migration by age/sex.

Assumptions: Projections 2008-base

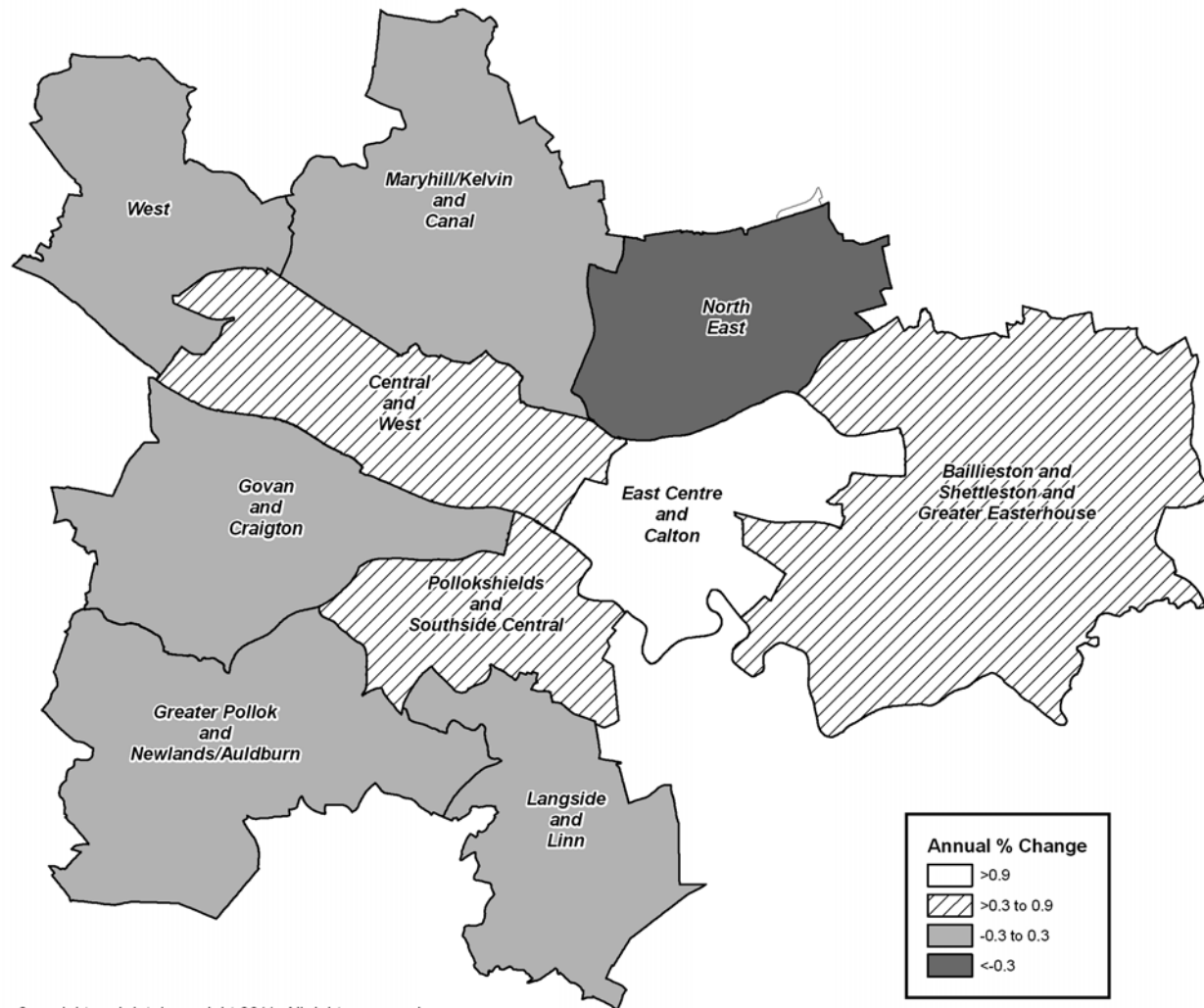
Migration within Glasgow:

- schedule rates by *single age/sex* taken from out-migration file Glasgow City.
- *5 year age/sex* profile for “within Glasgow” migration can be obtained from 2001 Census SMS data.
- compare annual household change from initial projections with annual dwelling stock changes and determine *migration adjustment* required (about 2x difference). Sum of adjustments must add to zero.

Assumptions: Projections 2008-base

- **Institutional Population:** based on NRS 2008 estimate of Communal Establishment population in Glasgow, disaggregated to CPP areas based on 2001 Census split and student accommodation data 2001-2008.
- **Household formation:** based on NRS projected headship rates for Glasgow City, calibrated to 2008 household estimates by CPP area.
- **Projected Dwelling Stock:** based on:
 - estimated changes in housing stock 2008-2010,
 - programmed housing completions from 2010 private sector land supply
 - expected housing completions and demolitions by GHA and other HAs (HNDA data).

Graph 2 - Projected Annual Population Change 2008-2018 for Community Planning Partnership areas in Glasgow City



© Crown Copyright and database right 2011. All rights reserved.
Ordnance Survey Licence number 100023379. 04/05/2011

Methodological Difficulties

1. in-migration age profile adjustment for student areas
2. mismatch projections and recent estimates

Glasgow North East	2001-2008 estimate	2008-2018 Initial projection	2008-2018 Main projection
Annual population change	206	181	-358
Annual household change	-162	226	-1

Average household size	2001	2008	2018
Glasgow North East	2.07	2.27	2.08
Glasgow City	2.06	2.00	1.89