

Glasgow - Past & Present

- Big trends James Arnott
- From indicators to insights Anne Scoular
- Integrated public health profile David Walsh
& Bruce Whyte

Themes of presentations

- What is improving?
- What's proving resistant to change?
- What's getting worse?
- Future trends and implications

Big trends

1971 CENSUS

“Shipbuilding, heavy engineering, textile and chemical manufacturing predominated until recently ... light engineering and electrical products now form one of the city’s most important industrial features ...”

FURTHERMORE ...

“... large numbers of workers engaged in the distributive trades, the transport and communications industry, the manufacturing of food (including bread), drink and tobacco and of clothing and footwear ...”

NOT TO FORGET ...

“... a considerable number of people in the city are engaged in professional and scientific services ...”

PERIOD OF CHANGE

- Decline of manufacturing ...
- ... but improved quality of employment for those in work
- Loss of population ...
- ... but increased size of 25-44 age group
- The city used to follow ...
- ... now the city leads the conurbation

25-44 AGE GROUP

	1981 25-44	2001 25-44	% change
Glasgow	23%	31%	35%
Rest of Area	26%	28%	8%
Scotland	26%	29%	12%

SOCIAL CLASS I&II

	I&II 1981	I&II 2001	% Change
Glasgow	18%	38%	+111%
Rest of Area	28%	37%	+32%
Scotland	28%	37%	+32%

OWNER-OCC

	O-O 1981	O-O 2001	% Change
Glasgow	24%	49%	+104%
Rest of Area	33%	65%	+97%
Scotland	35%	63%	+80%

INTERPRETATION

- Rapid change since 1980s involving a major period of adjustment
- Closing the gap with some but not all national rates
- Why?

From indicators to insights

from indicators to insight

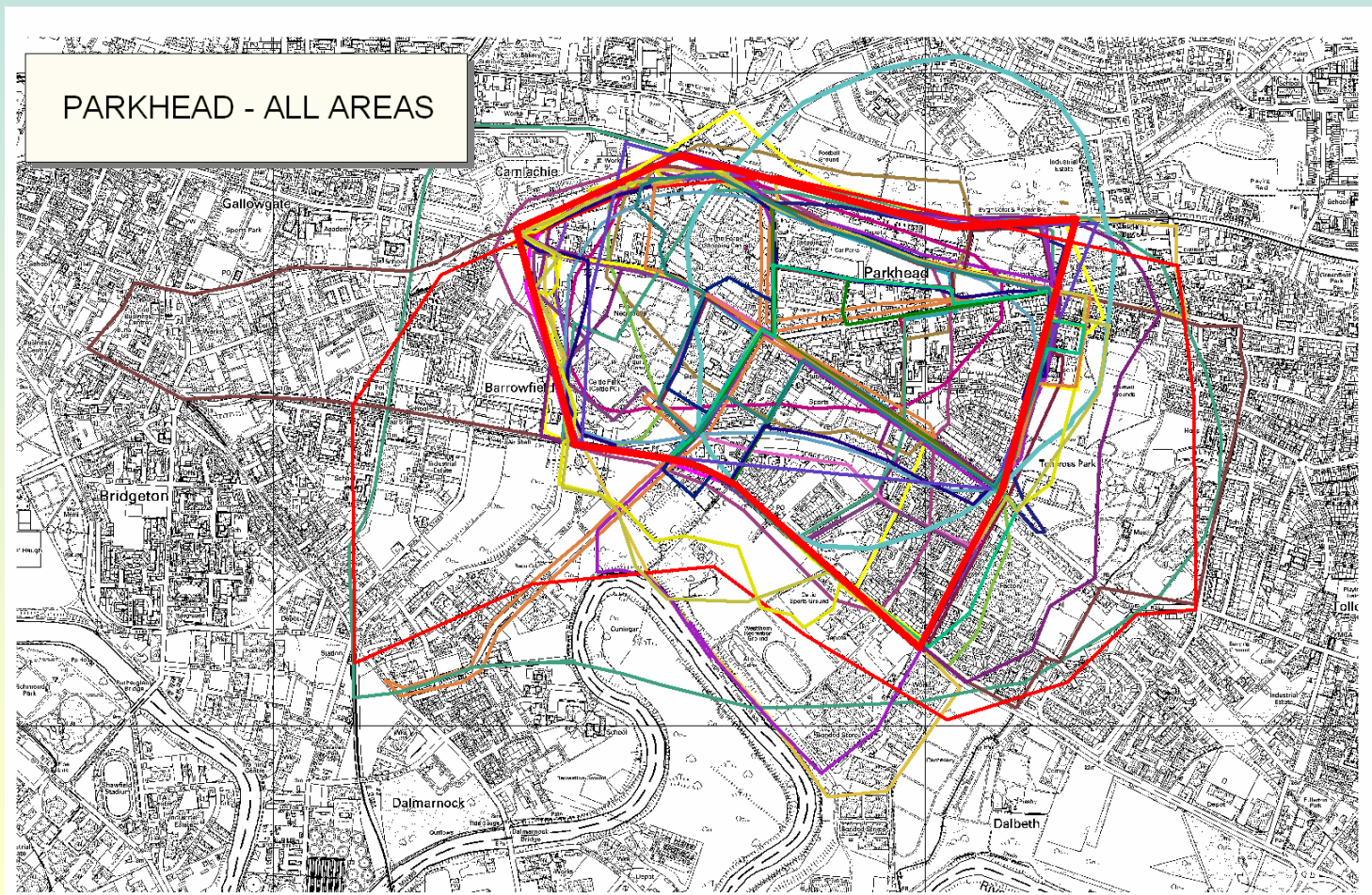


local context

- Parkhead: Glasgow in microcosm
 - 4 mines in central Parkhead
 - Forge 1837-1976
 - Decline in heavy industry
- Regeneration efforts
 - 1957: 'Comprehensive Development Area'
 - 1976: GEAR ('Glasgow Eastern Area Renewal' Project)
 - 1980s onwards:
 - Areas of Priority Treatment
 - Priority Partnership Areas
 - Social Inclusion Partnerships

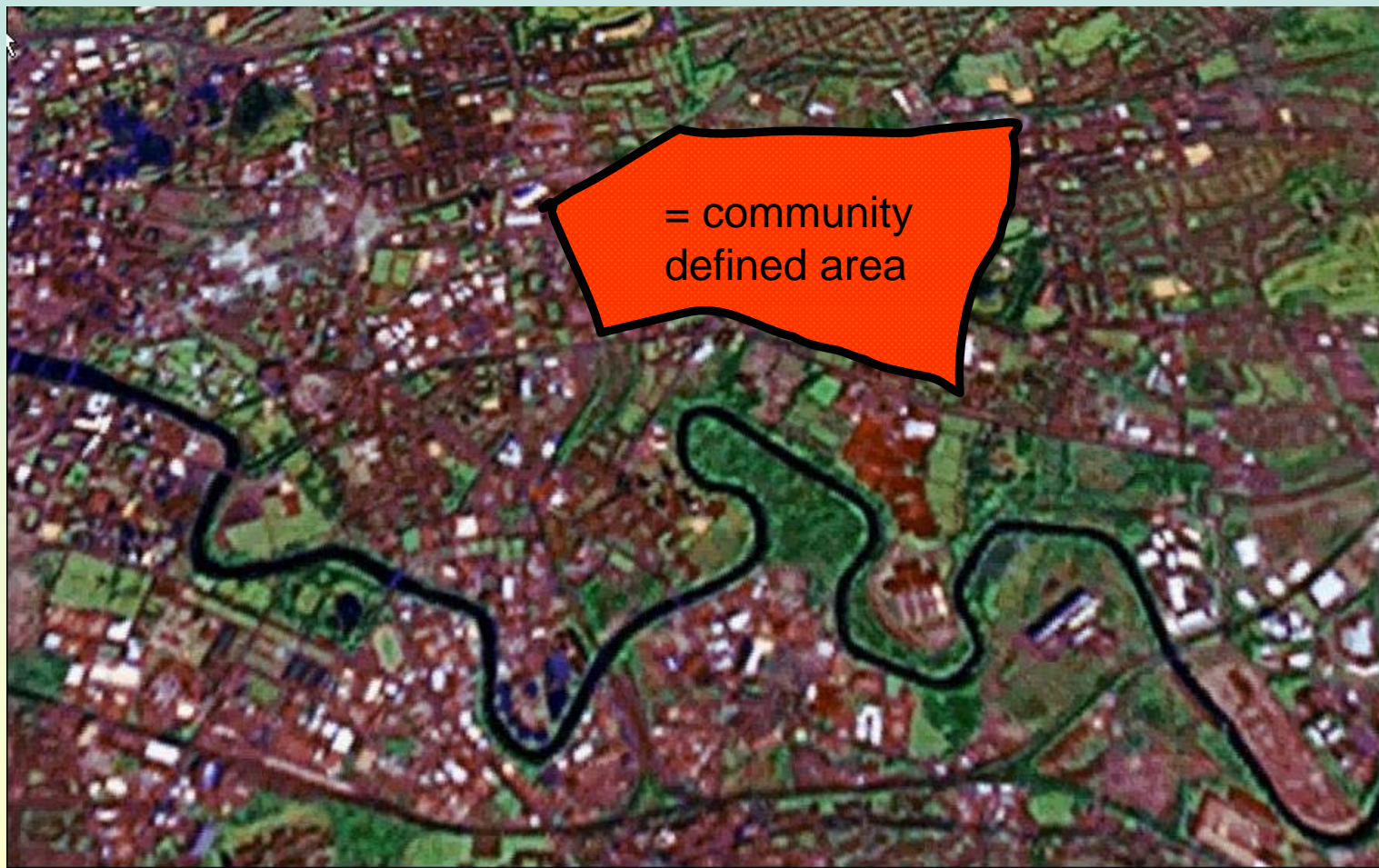


definition of 'Parkhead'

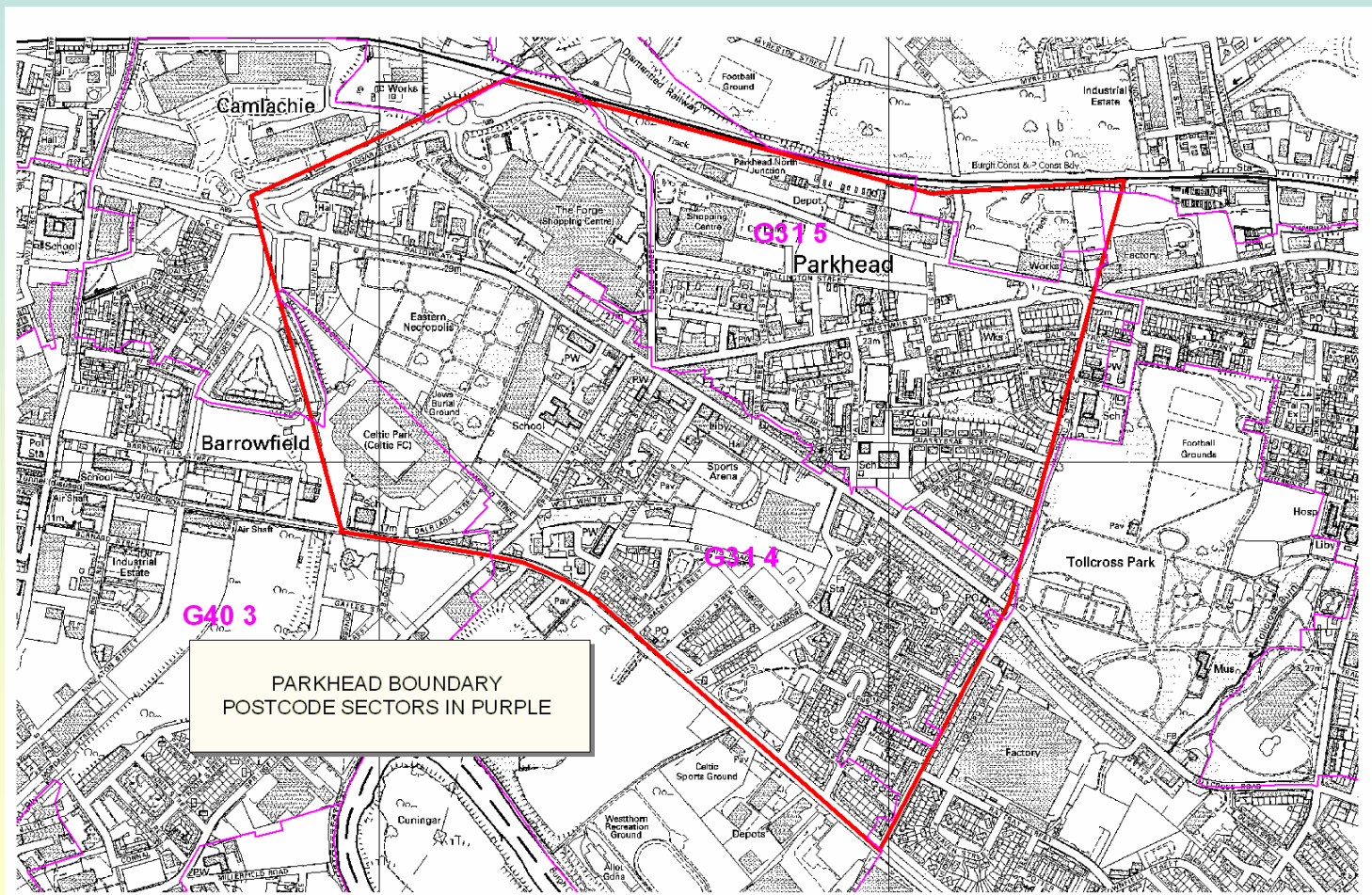




local context

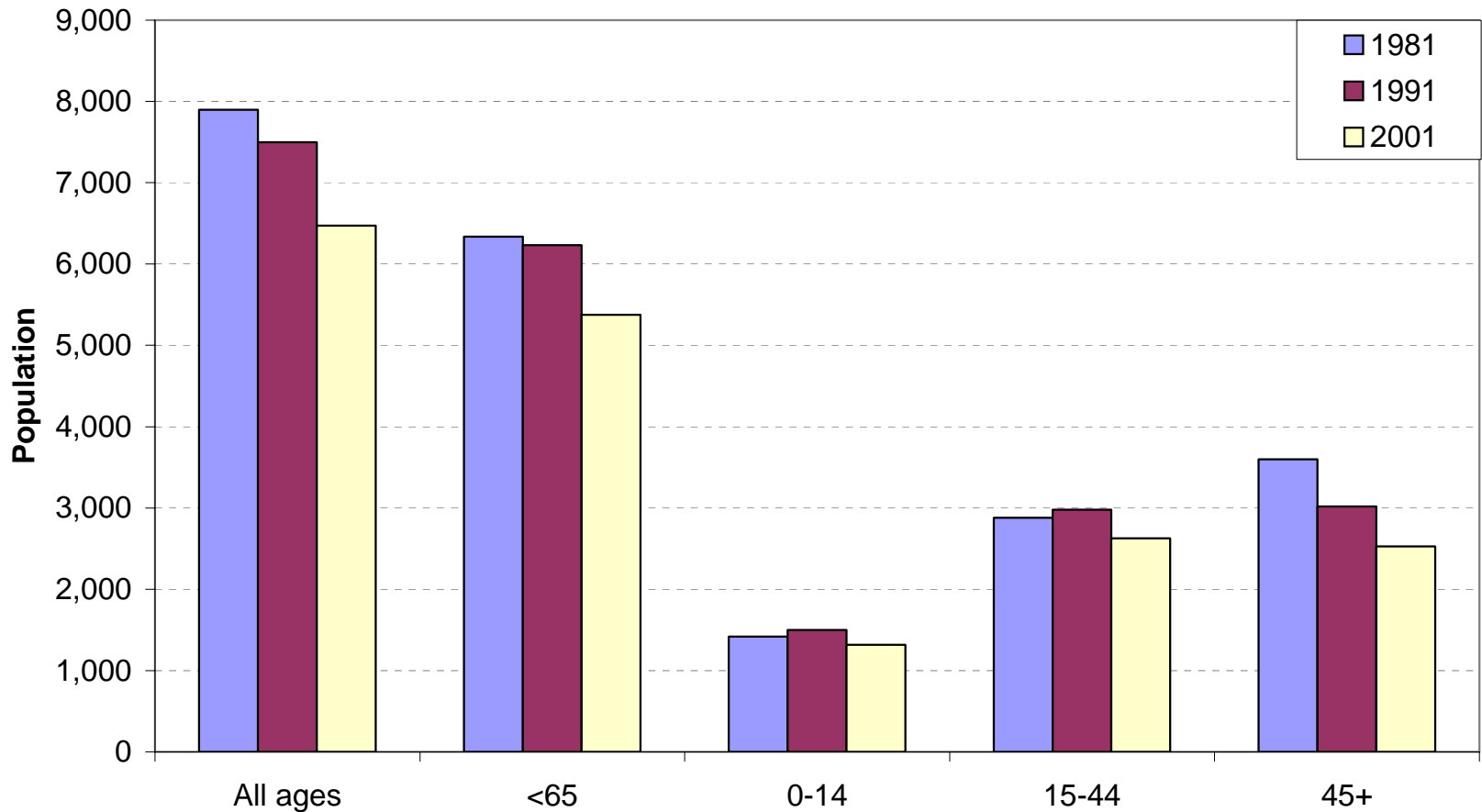


relationship to PC sectors



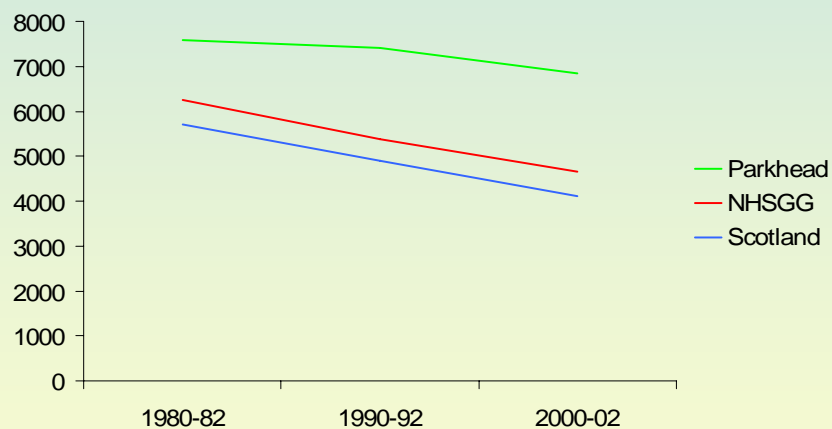
population estimates

Total population in Parkhead, 1981, 1991 and 2001

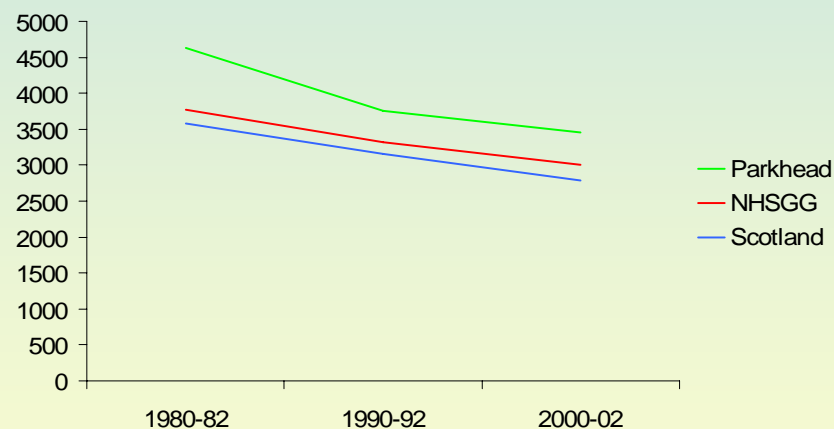


health outcomes

all cause mortality*



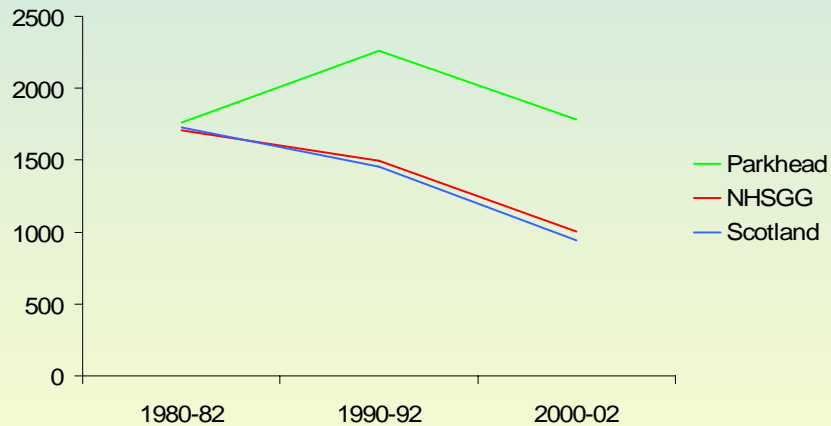
male



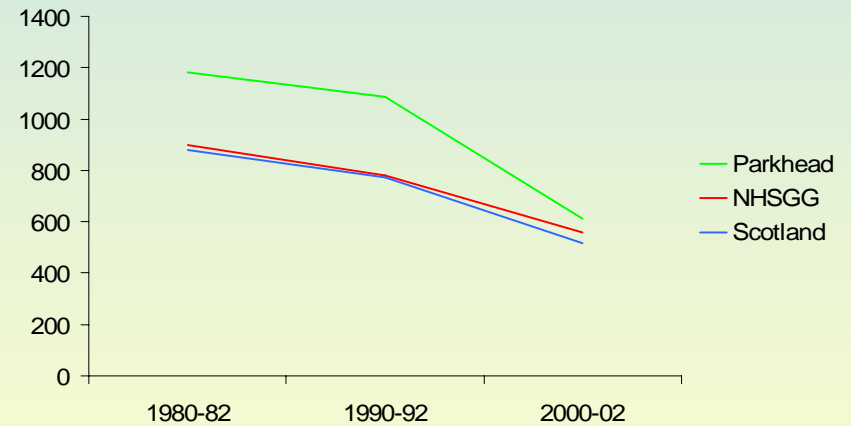
female

*rate/100,000 person-years at risk (standardised to 2001 NHS GG population)

ischaemic heart disease mortality*



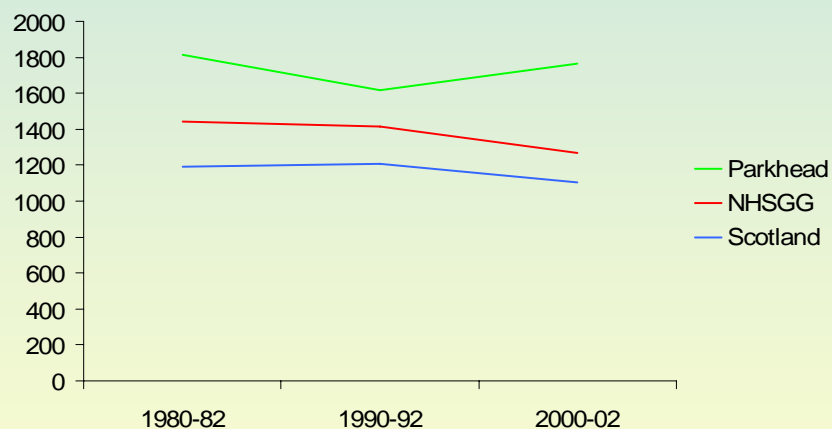
male



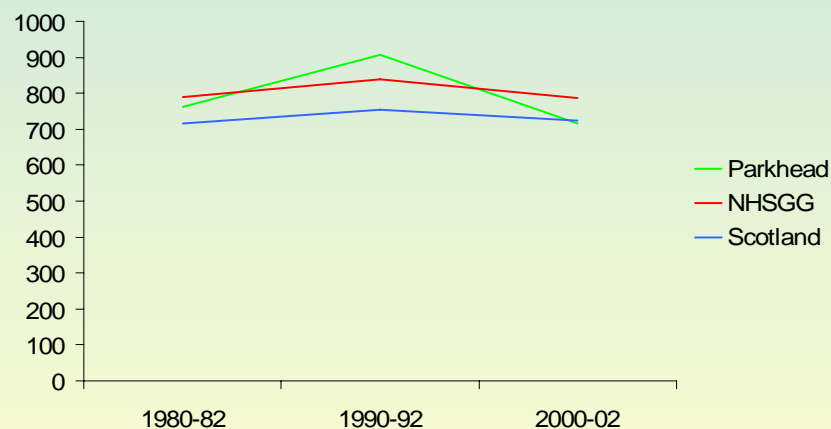
female

*rate/100,000 person-years at risk (standardised to 2001 NHSGG population)

all cancer mortality*



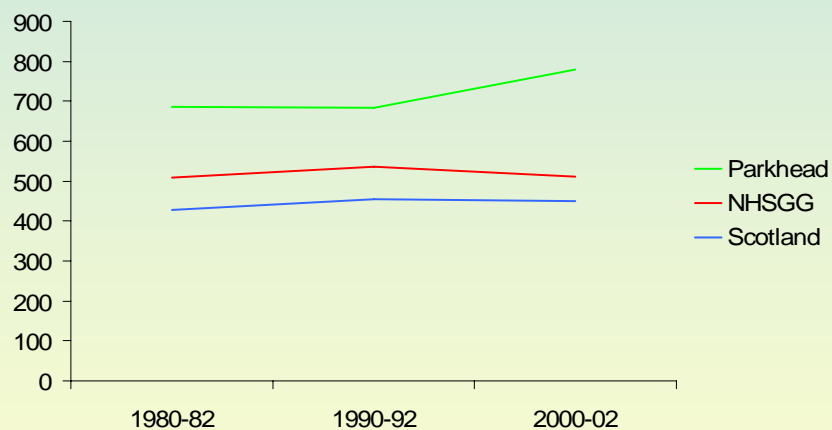
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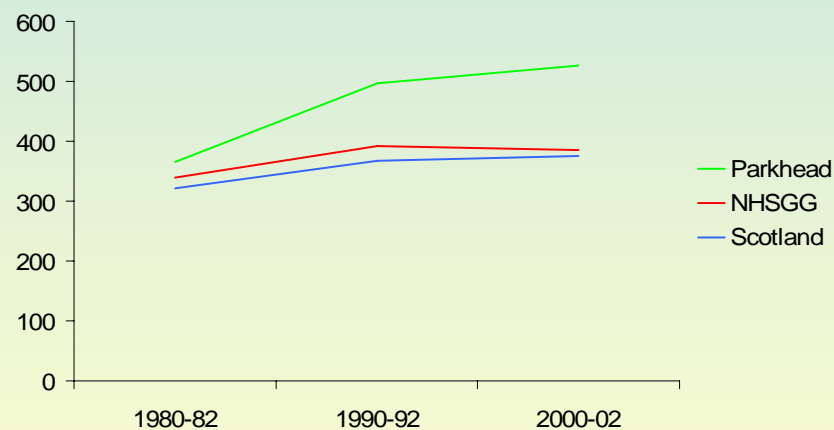
female

*rate/100,000 person-years at risk (standardised to 2001 NHSGG population)

all cancer incidence*



male

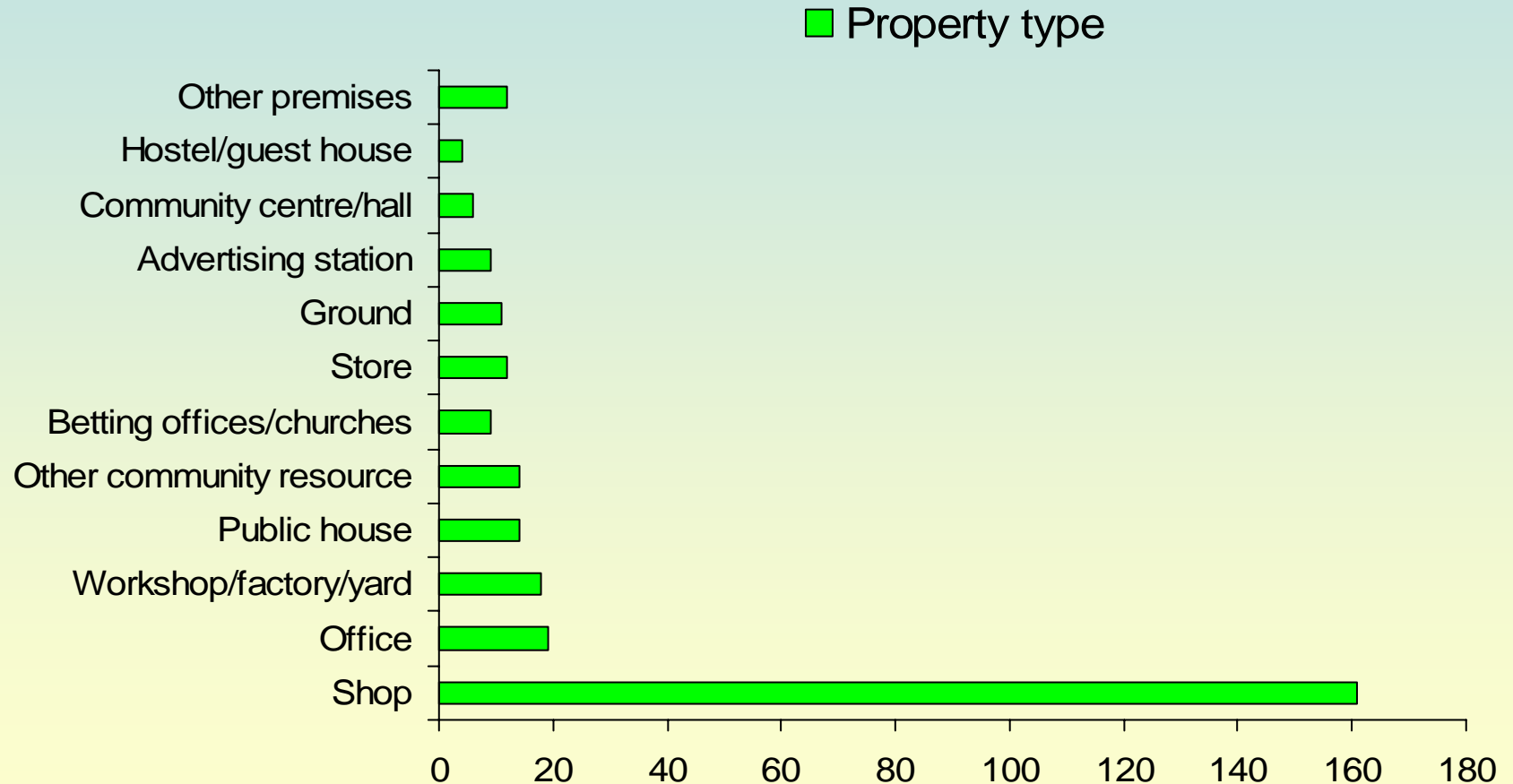


female

*rate/100,000 person-years at risk (standardised to European standard population)

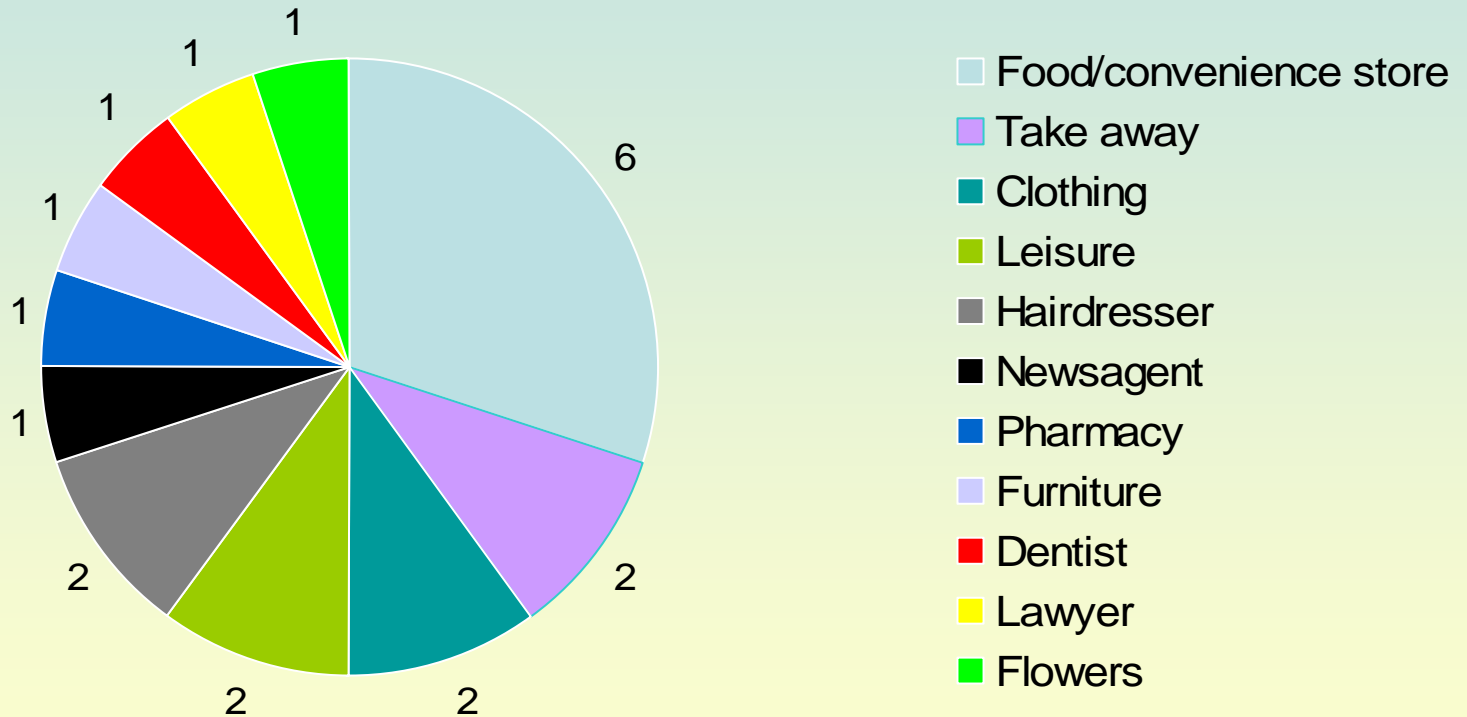
health determinants: environment

commercial properties within community defined area



Source: Glasgow City Council Financial Services, January 2005

Parkhead Cross Retail Profile



Source: Parkhead Cross Economic Regeneration Project Final Report, 2002

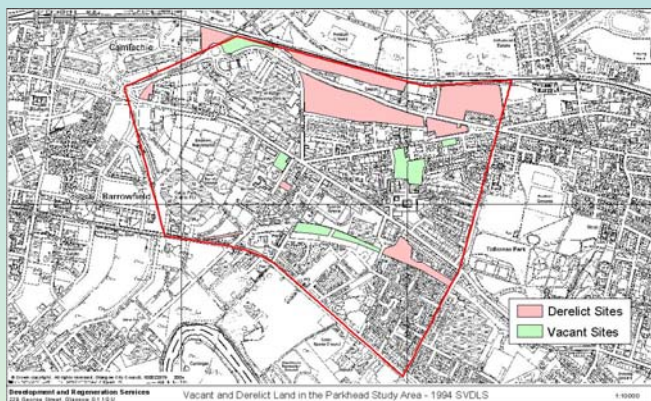
retail environment



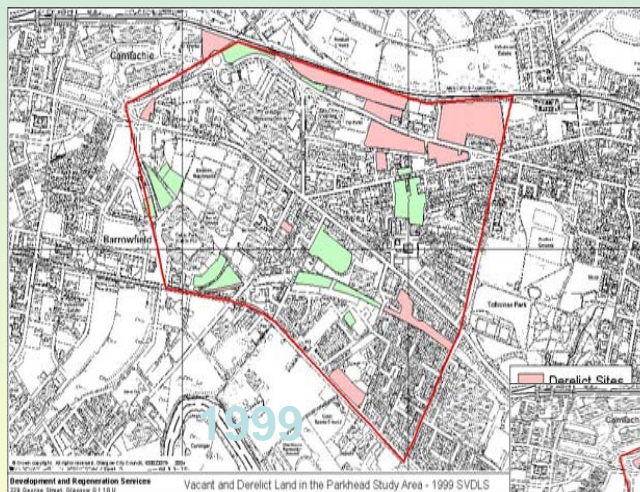
retail environment



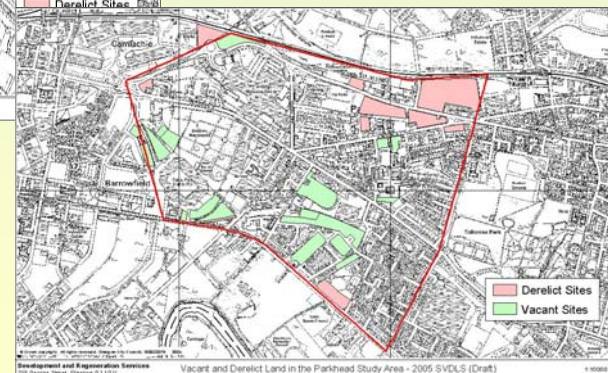
trends in vacant & derelict land



1994



1999



2005

from this....



to this...



or this ?



conclusions



- routine data applicable to socially defined 'place'
- determinant data
 - surveys
 - COA level
- detailed health outcome data clearly show Parkhead's health trajectory
- understanding pathways & interactions
- understanding lived experiences
- information for action

acknowledgements

- Karen Lorenzetti NHSGG
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Suzie Kemsell Glasgow City Council
- David Walsh Health Scotland
Bruce Whyte Health Scotland
- Ian Henton Health Protection Scotland
- Parkhead Housing Association
Parkhead Youth Project
Parkhead Health Centre
East End Partnership



Integrated public health profile

Areas of analysis

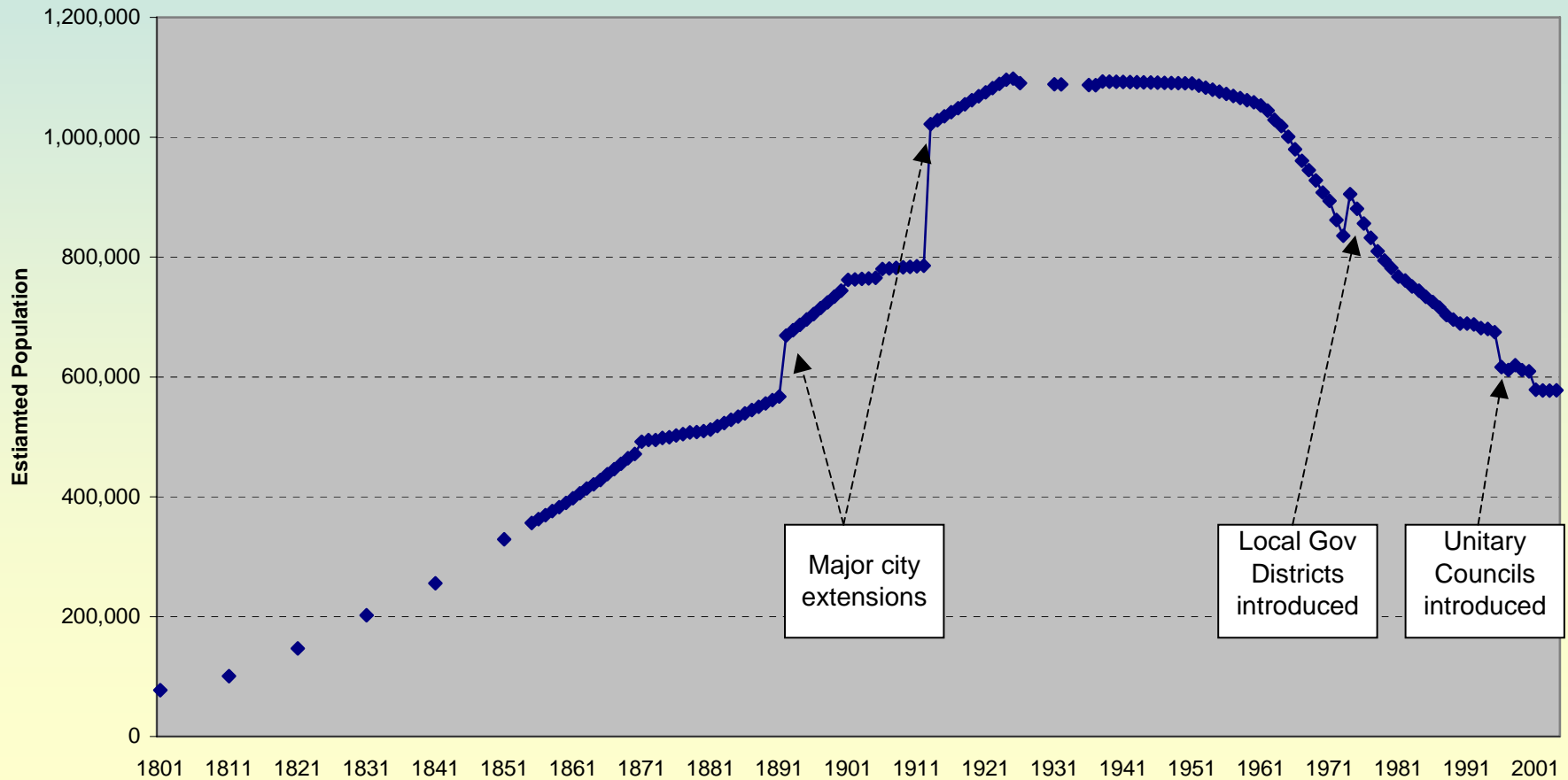
- Historical context
- Population dynamics
- Economy
- Social environment
- Physical environment
- Behaviour
- Pregnancy & childbirth
- Children's health
- Health & function
- Illness & disease

Historical context/ Population dynamics

Population

Glasgow's Population; 1801-2004

Source: Reports of Medical Officer of Health (1898, 1925, 1926, 1972);
Registrar General of Scotland's Annual Reports (1973-2004)

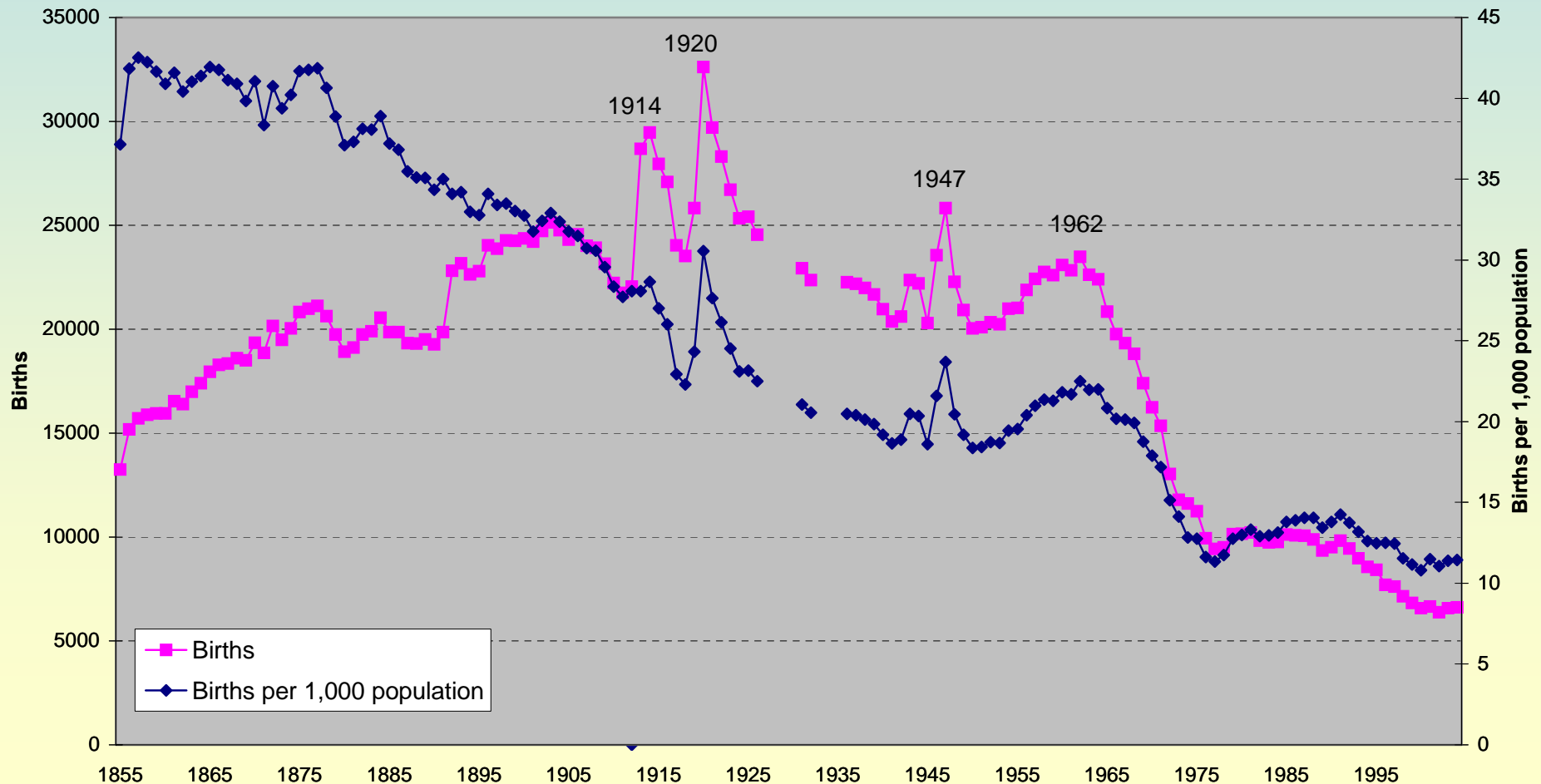


Births

Trends in Births and Births per 1,000 population in Glasgow; 1855 - 2004

Source: Reports of Medical Officer of Health (1898, 1925, 1926, 1972)

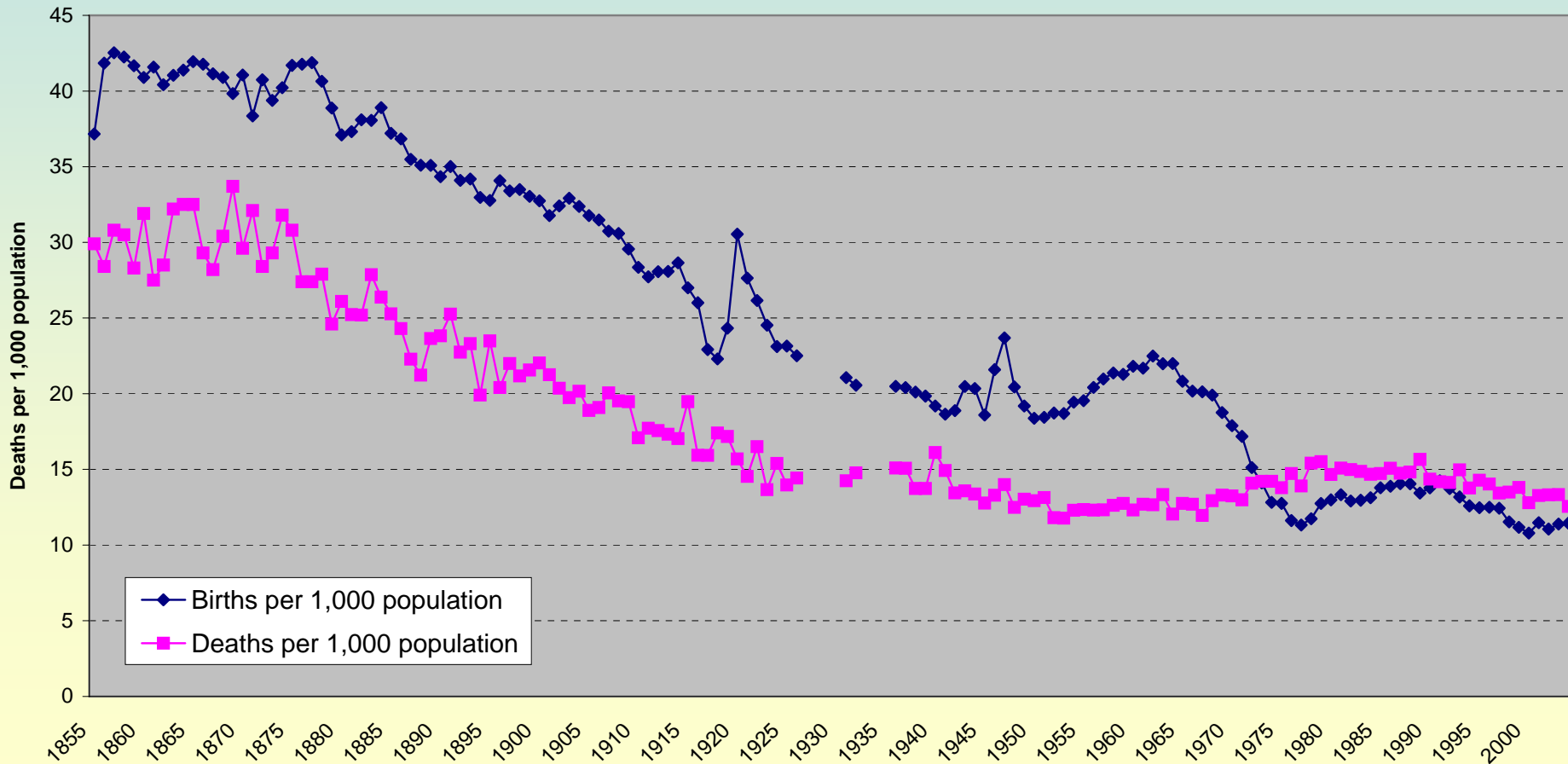
Registrar General of Scotland's Annual Reports (1973-2004)



Births & Deaths

Deaths and Births per 1,000 population in Glasgow; 1855 - 2004

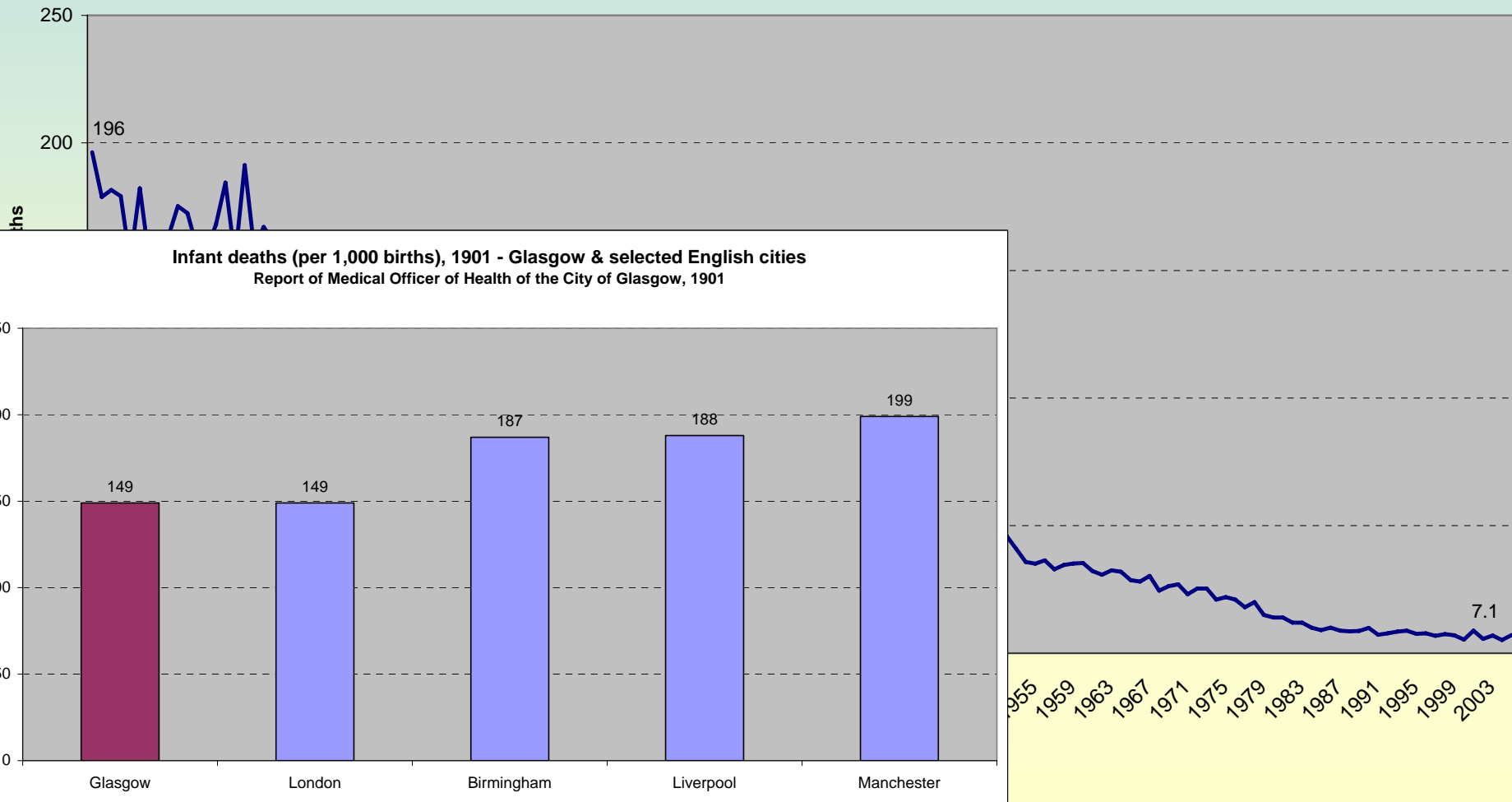
Source: Reports of Medical Officer of Health (1898, 1925, 1926, 1972);
Registrar General of Scotland's Annual Reports (1973-2004)



Infant deaths

Infant Deaths (under 1 year) per 1,000 births in Glasgow; 1855 - 2004

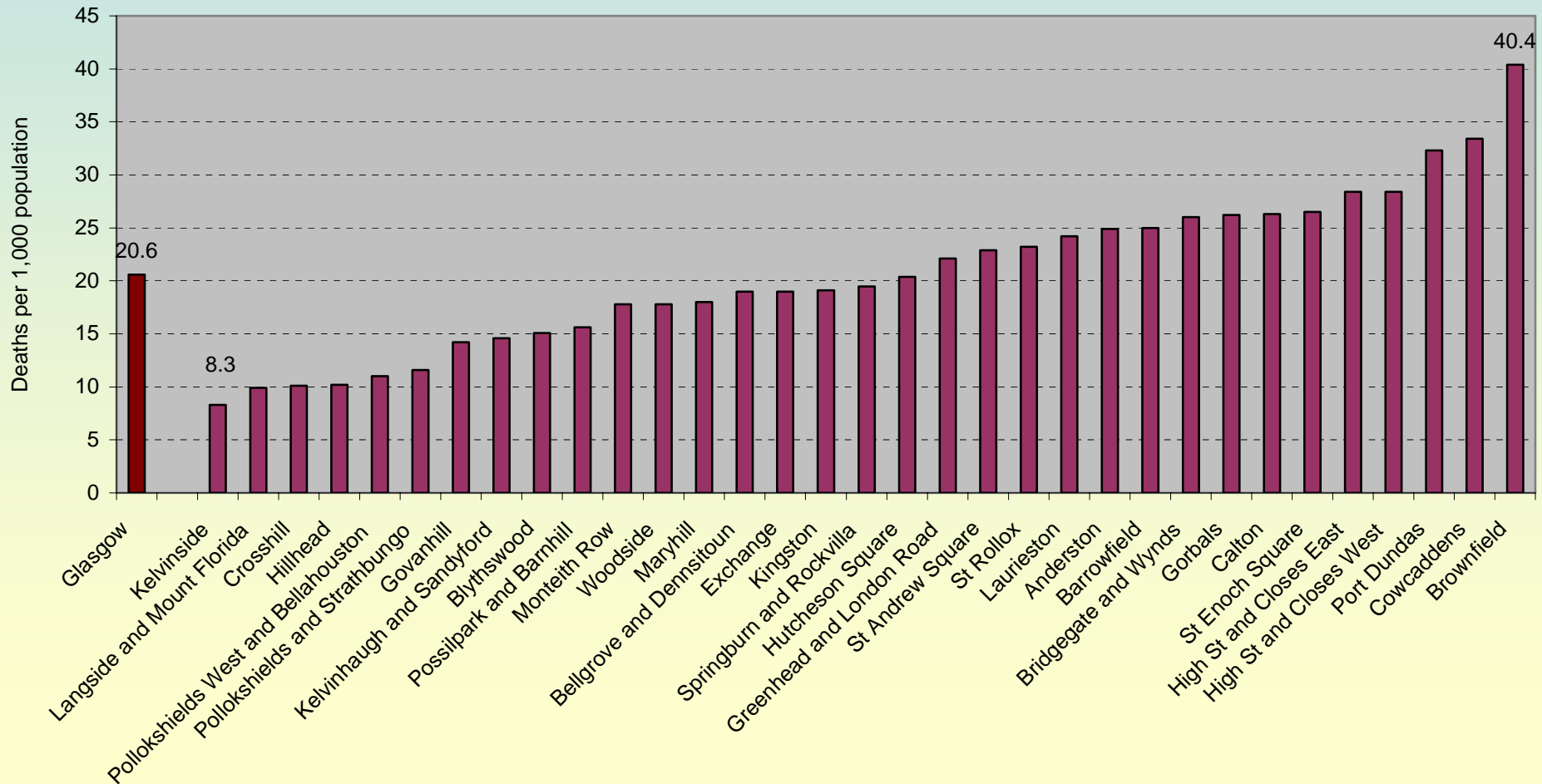
Source: Reports of Medical Officer of Health (1898, 1925, 1926, 1972);
Registrar General of Scotland's Annual Reports (1973-2004)



Inequalities - 1901

Death rates in Glasgow's Sanitary Districts; 1901

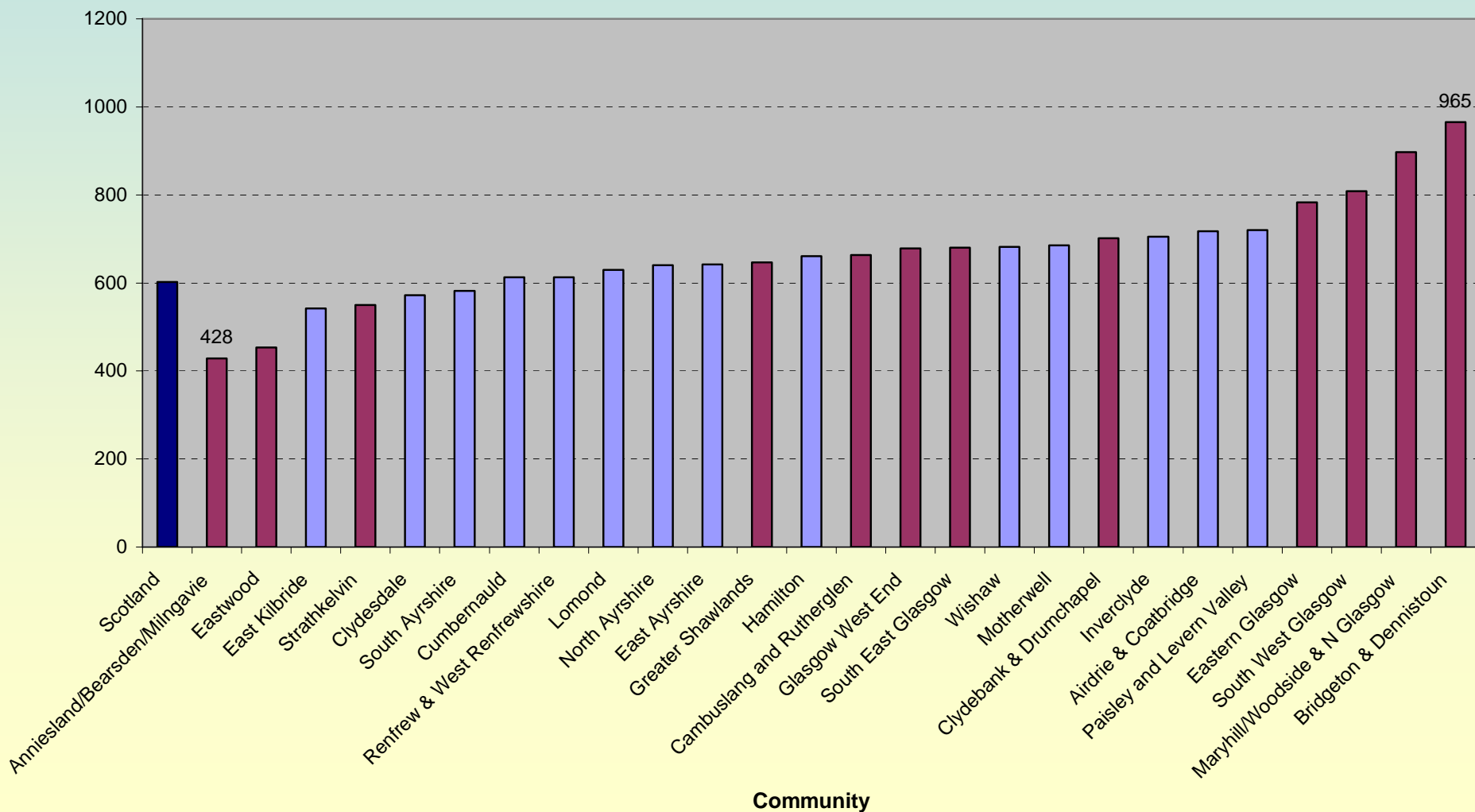
Source: Report of the Medical Officer of Health of the City of Glasgow 1901



Inequalities - 2001

Death rates per 100,000 population, directly age standardised; 2000-2002;
West of Scotland and Glasgow communities

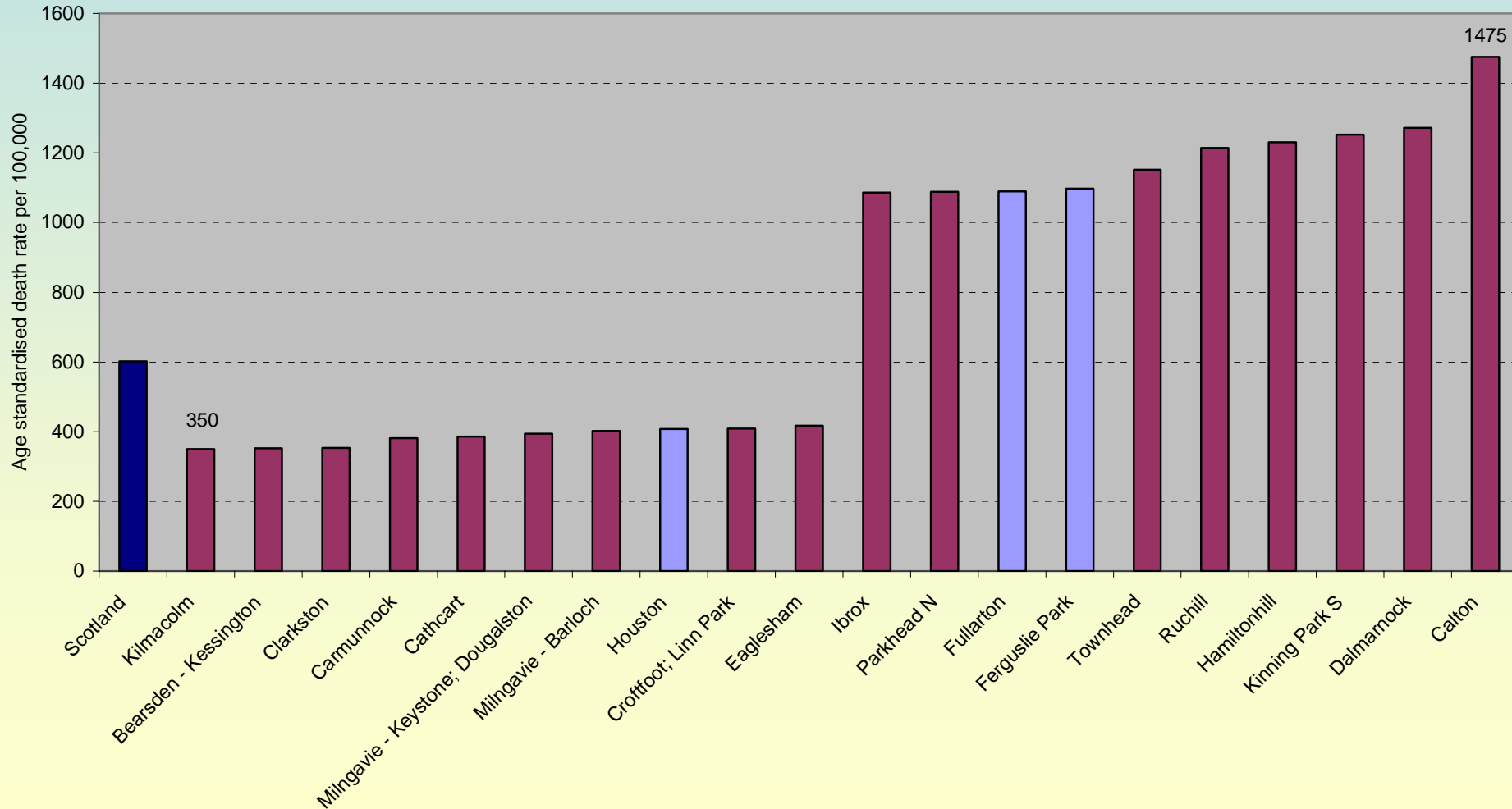
Source: NHS HS - Community Health Profiles, 2004 (from GROS data)



Inequalities - 2001

Death rates per 100,000 population, directly age standardised; 2000-2002
Glasgow & West of Scotland small areas with 10 highest and 10 lowest rates

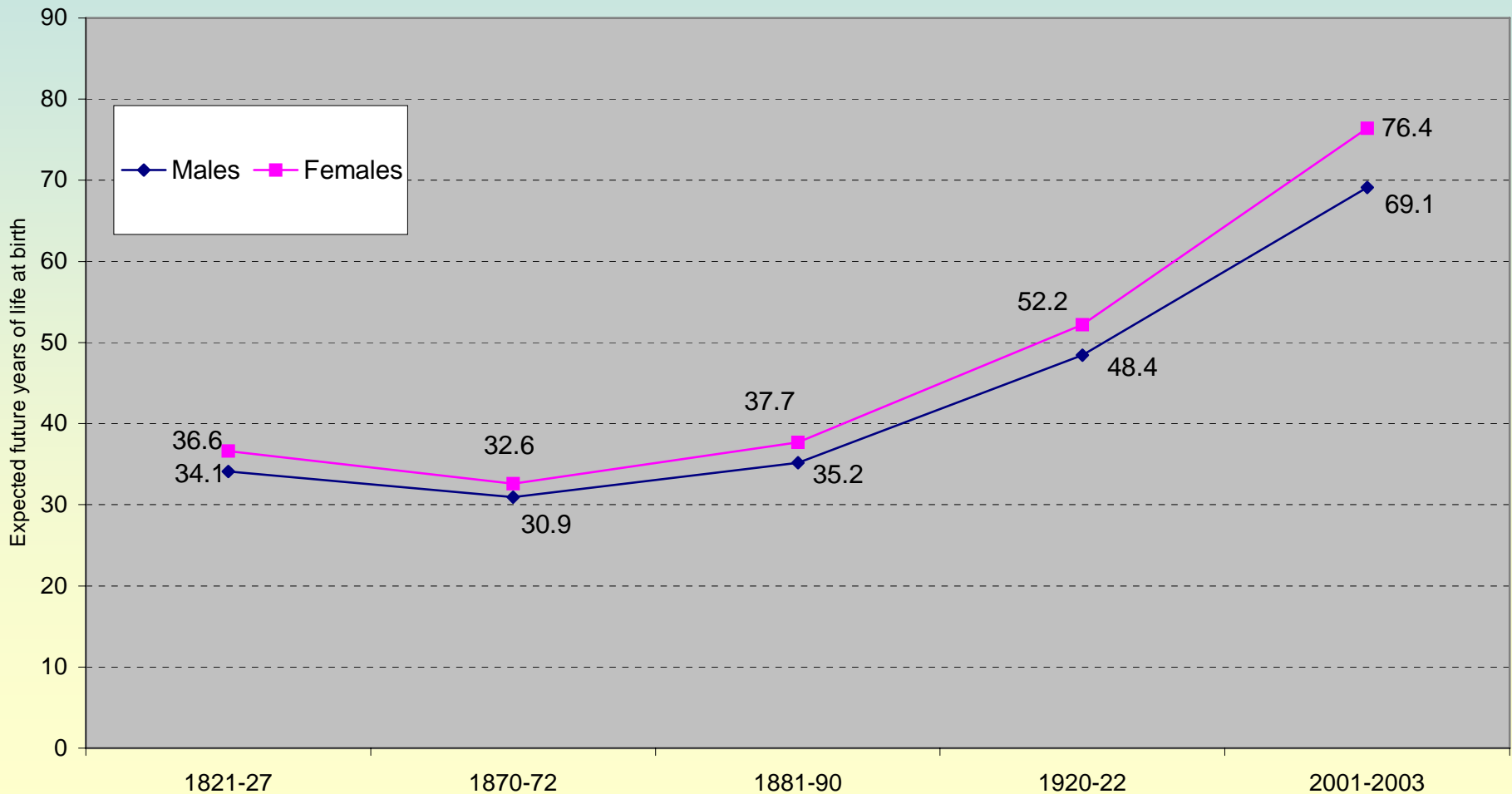
Source: NHS HS - Community Health Profiles, 2004 (from GROS data)



Life expectancy

Expected future years of life at birth by gender for Glasgow; 1821-27 to 2001-03

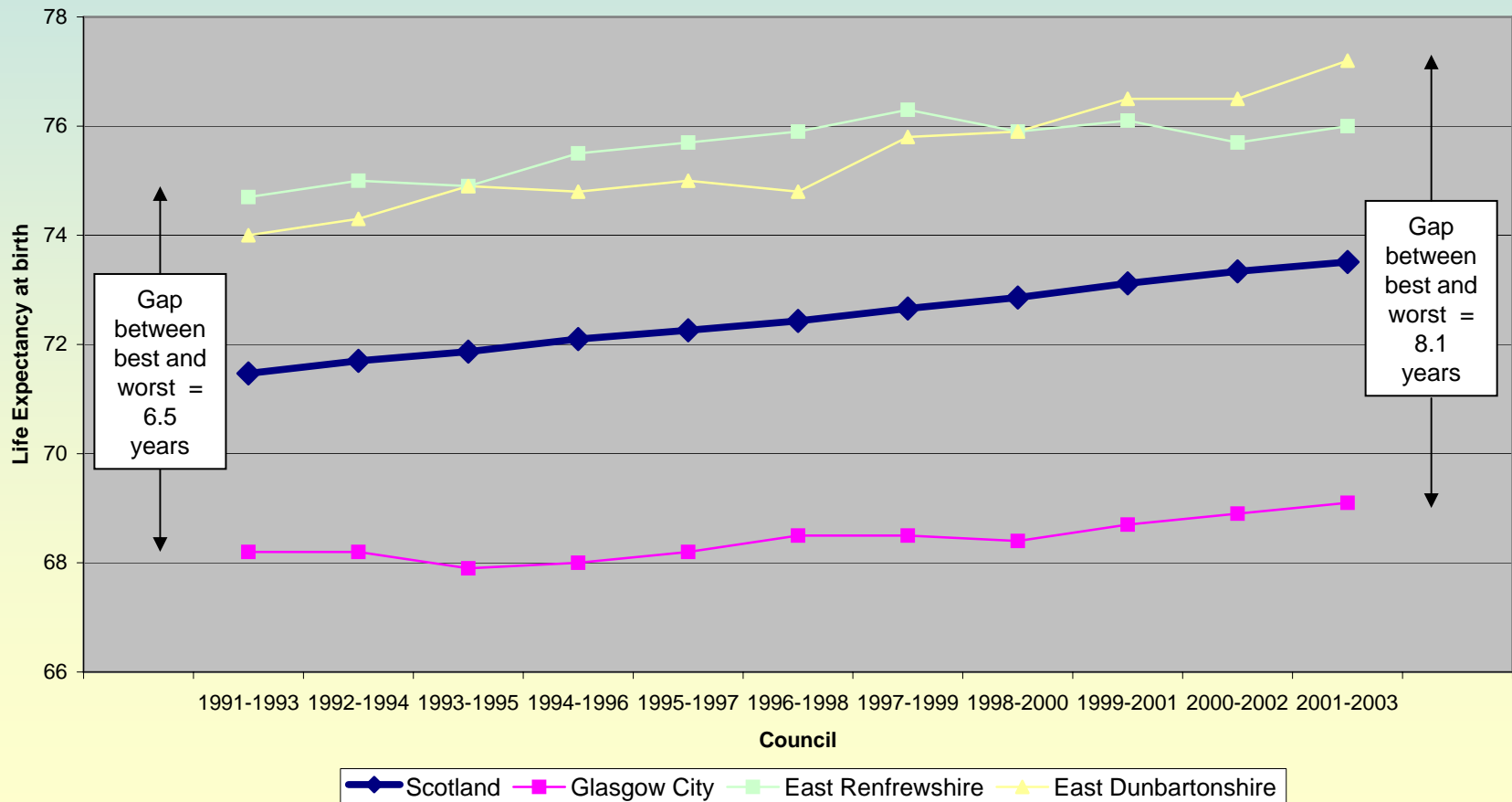
Source: The Report of the Medical Officer for Health, Glasgow, 1925; ONS 2004



Life expectancy

Male Life Expectancy at Birth (years); West of Scotland Council Areas vs Scotland;
1991-1993 to 2001-2003

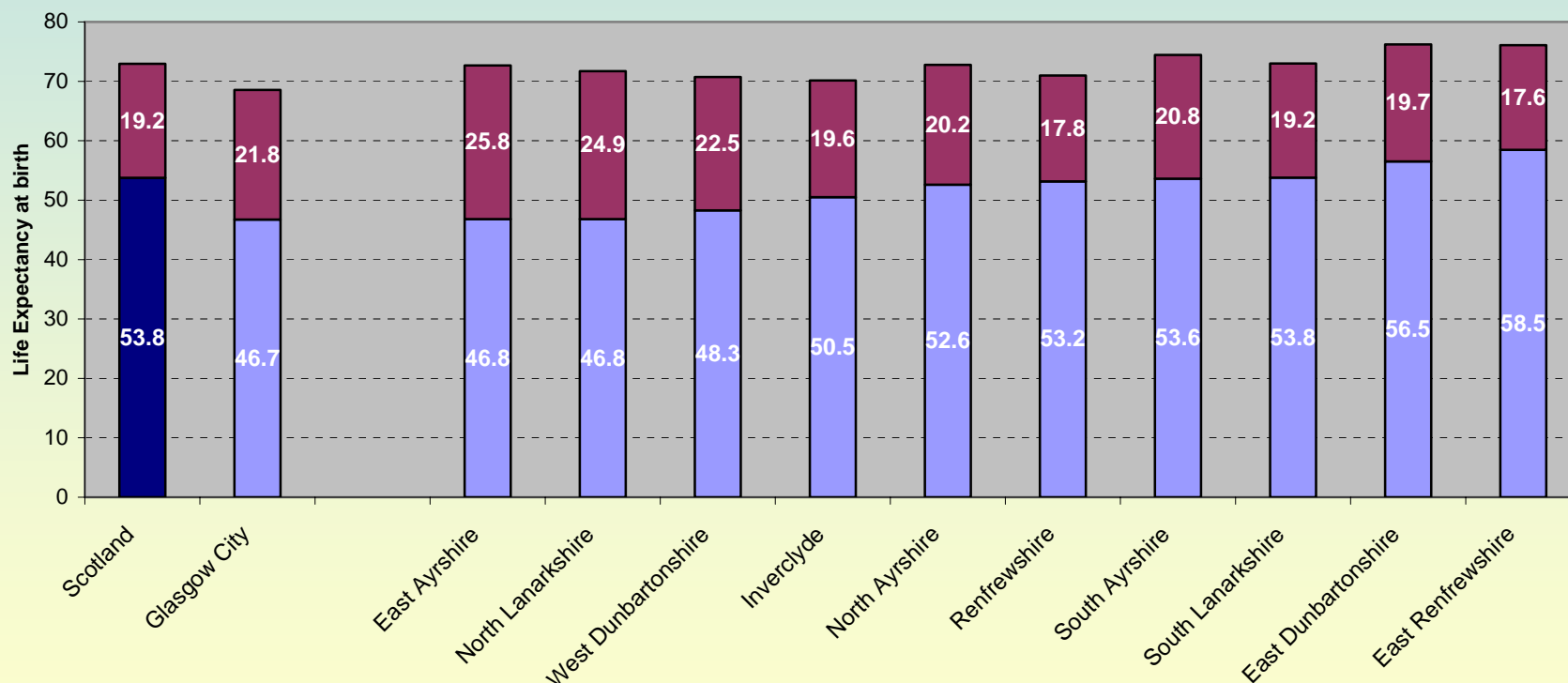
Source: Office for National Statistics



Healthy Life Expectancy

Life Expectancy vs Healthy Life Expectancy* at Birth, Males , 1999-2000

Source: ISD Scotland



West of Scotland Council Area

■ HLE at birth ■ Years of life with a LLI

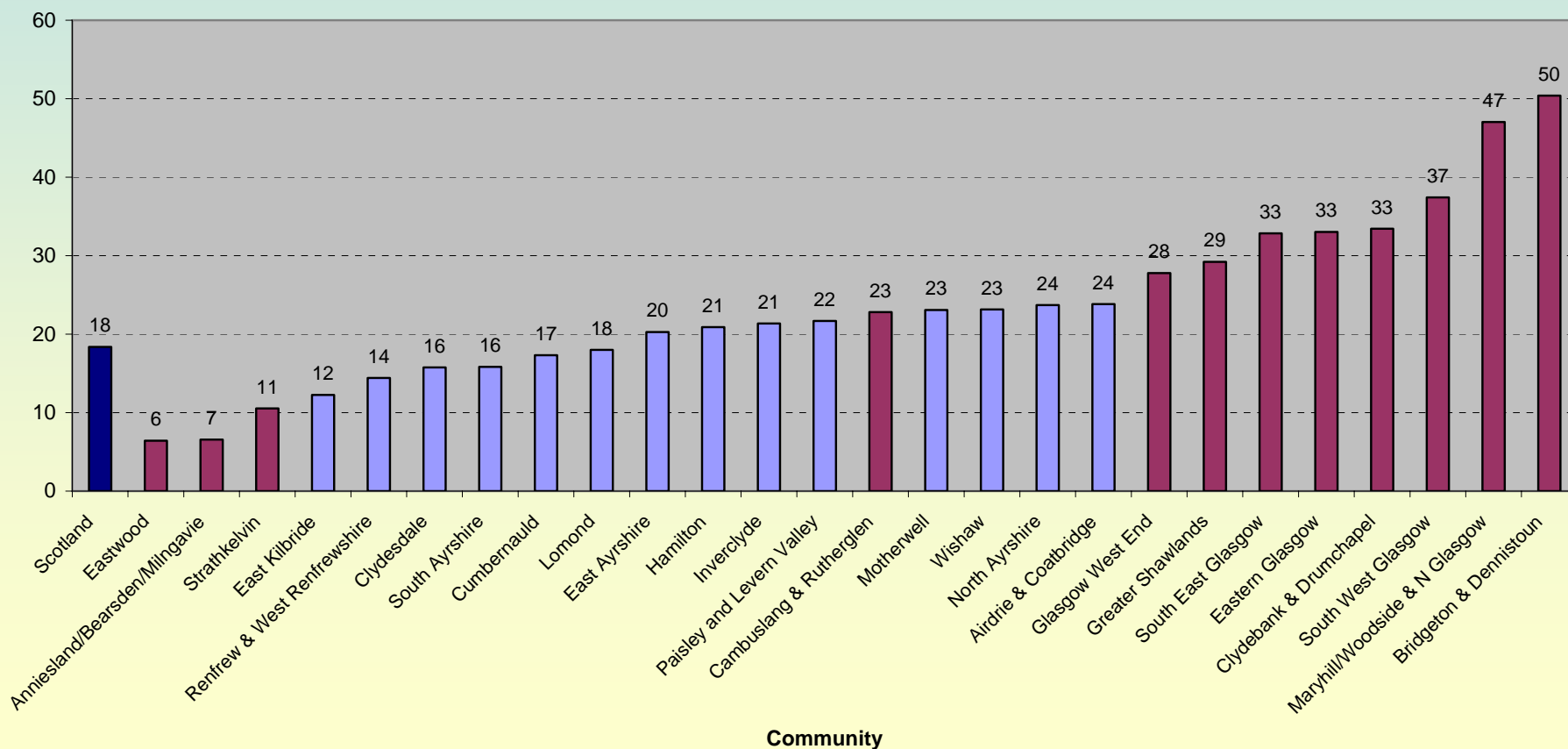
* defined as absence of Limiting Longterm Illness (LLI)

Economy

Children in workless households

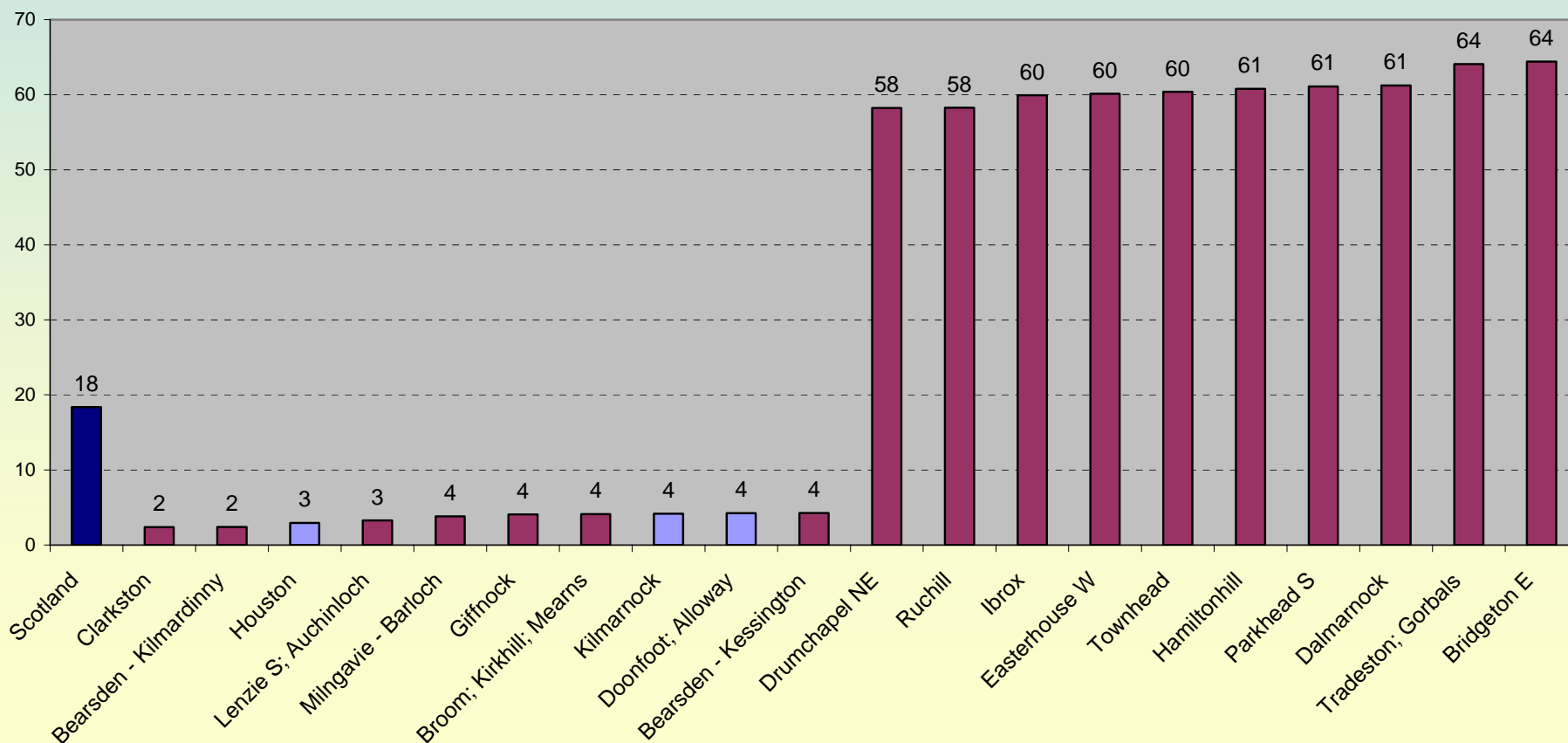
% of dependent children living in households where no-one is in employment; 2001;
West of Scotland and Glasgow communities

Source: NHSHS Community Health Profiles, 2004 (from 2001 Census data)



Children in workless households

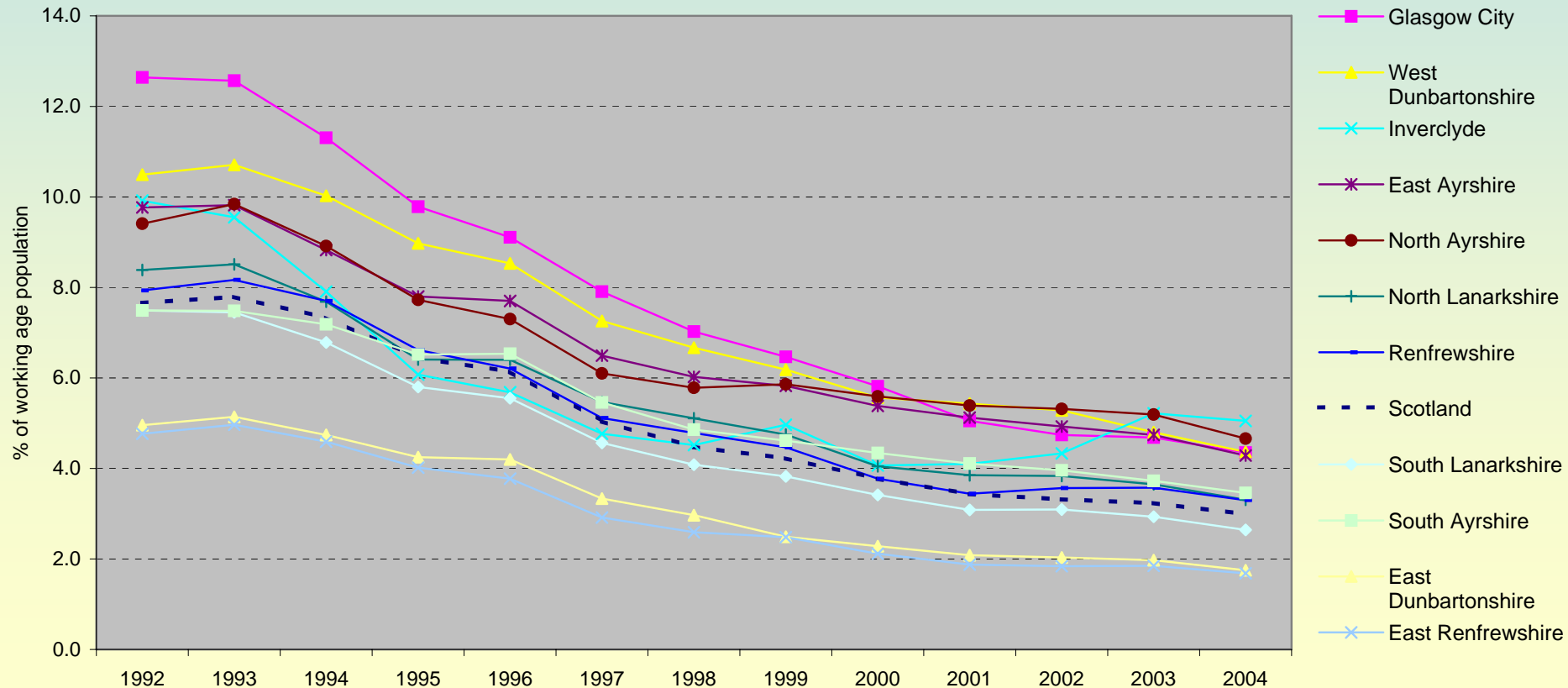
% of dependent children living in households where no-one is in employment; 2001
Glasgow & West of Scotland small areas with 10 highest, and lowest, rates
Source: NHSHS Community Health Profiles, 2004 (from 2001 Census data)



Unemployment

Unemployment claimant count expressed as percentage of working age population - West of Scotland local authority areas, 1992-2004

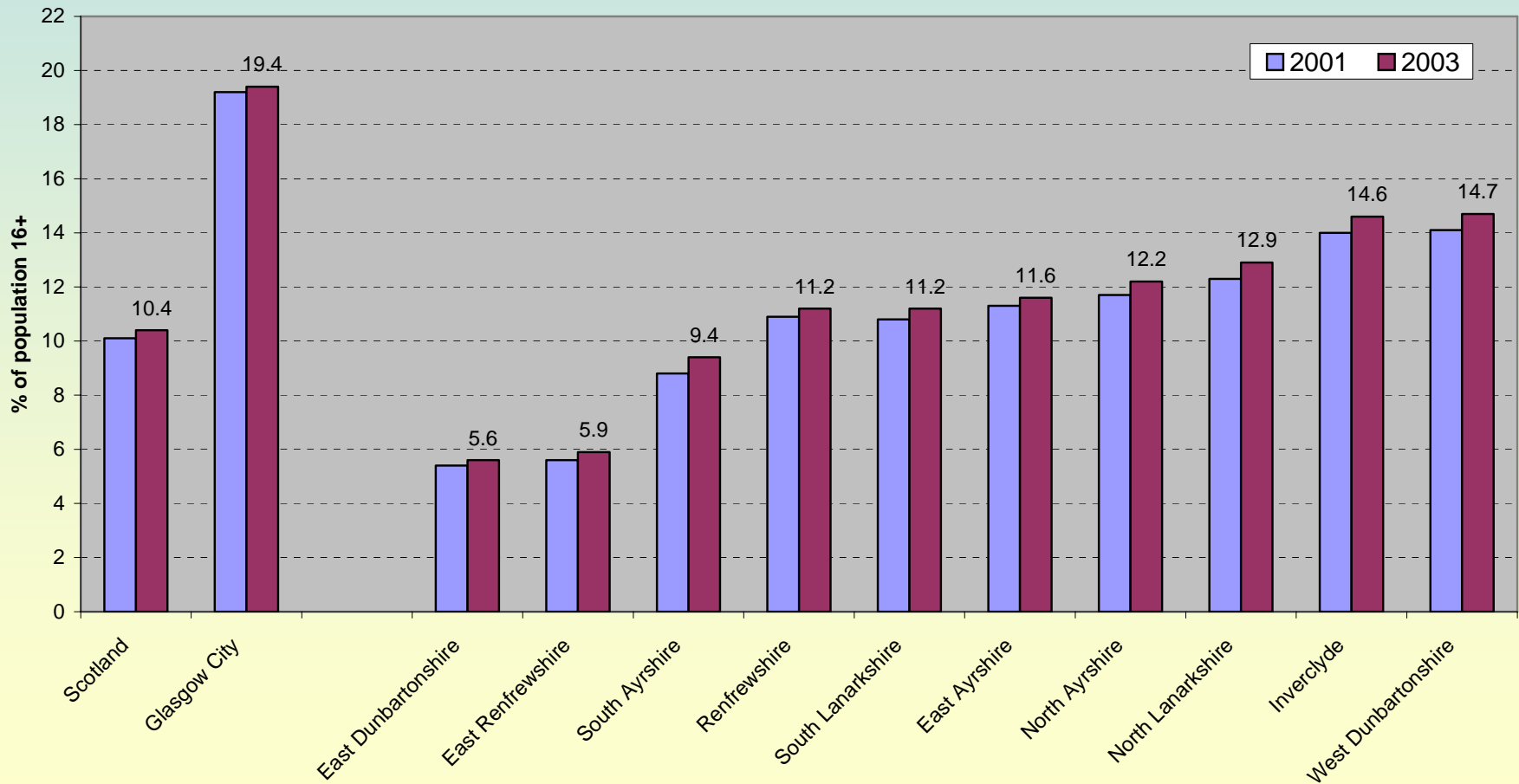
Source: NOMIS



Income support

% of population over 16 claiming Income Support; West of Scotland Councils, 2001 - 2003

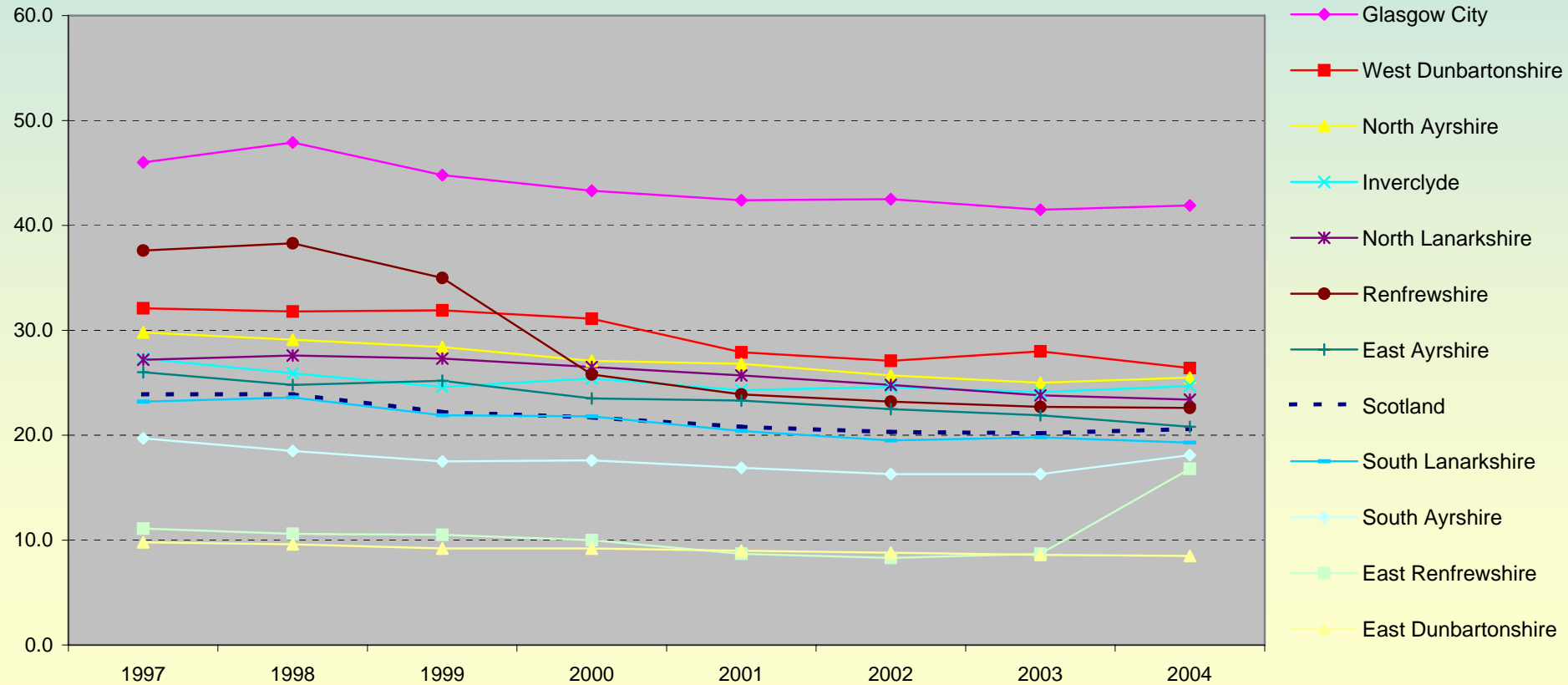
Source: Scottish Neighbourhood Statistics (originally from DWP)



Free school meals

Primary school pupils entitled to free school meals,
by West of Scotland local authority, 1997-2004

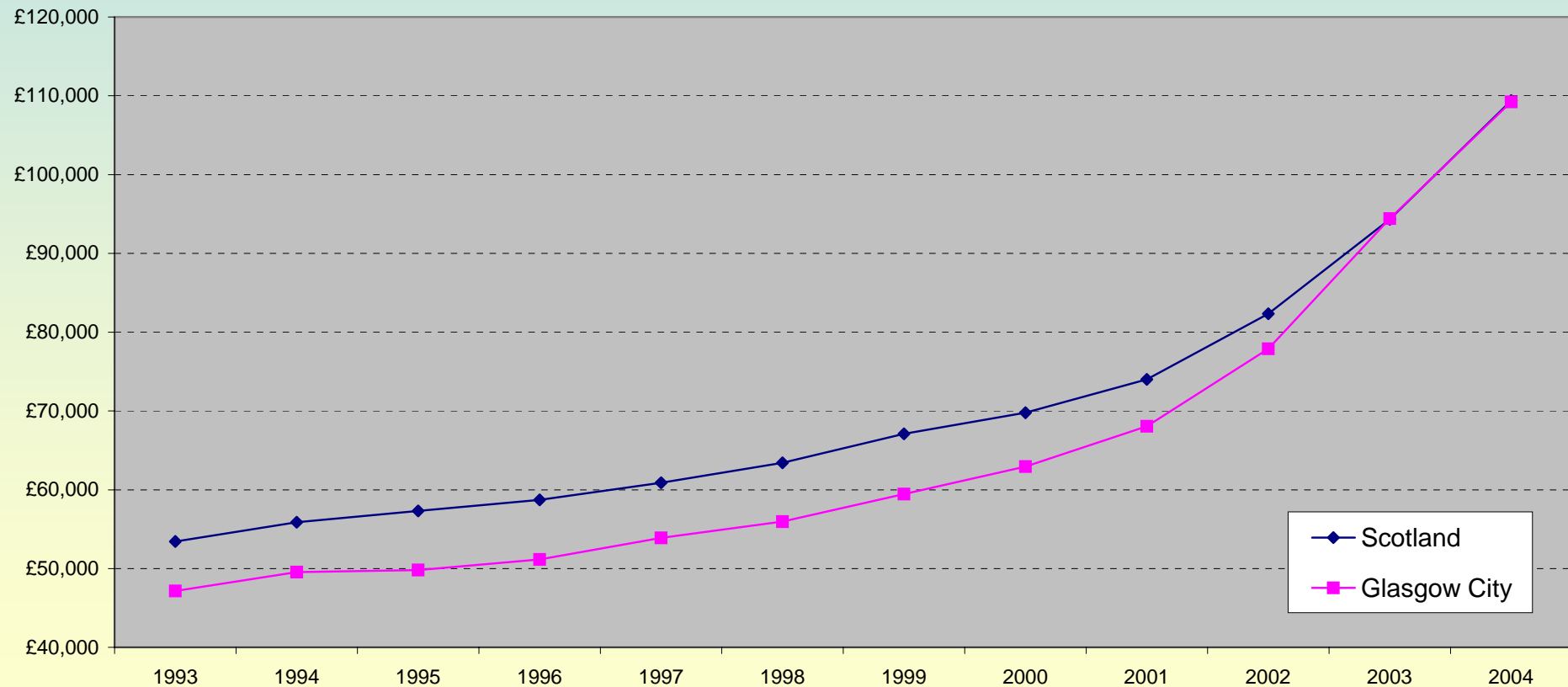
Source: Scottish Executive Education Department



House Prices Trend

Average House Price, Glasgow City & Scotland 1993-2004

Source: Scottish Neighbourhood Statistics

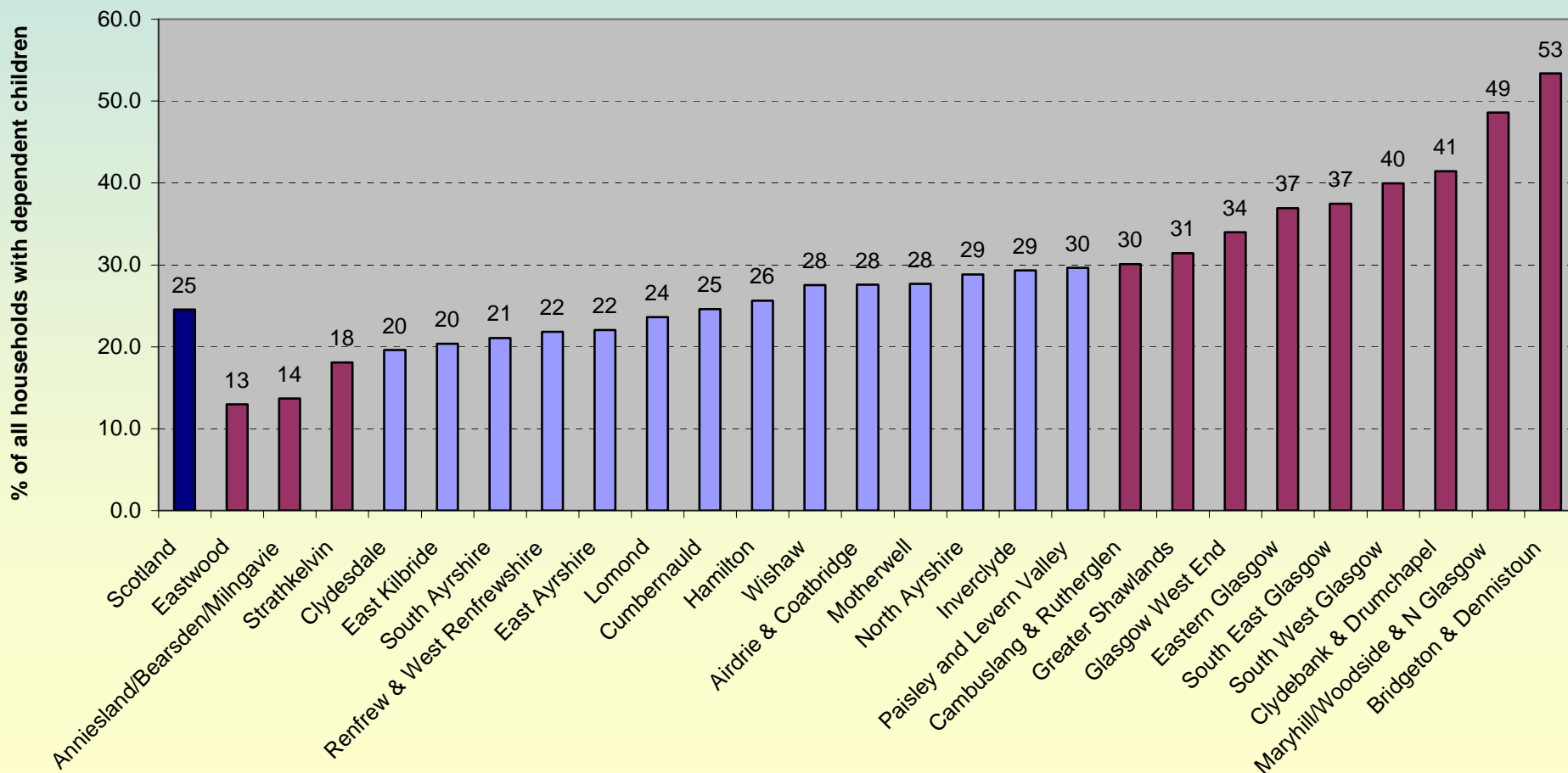


Social environment

Lone parents

Lone parent households with dependent children,
Glasgow & West of Scotland communities, 2001

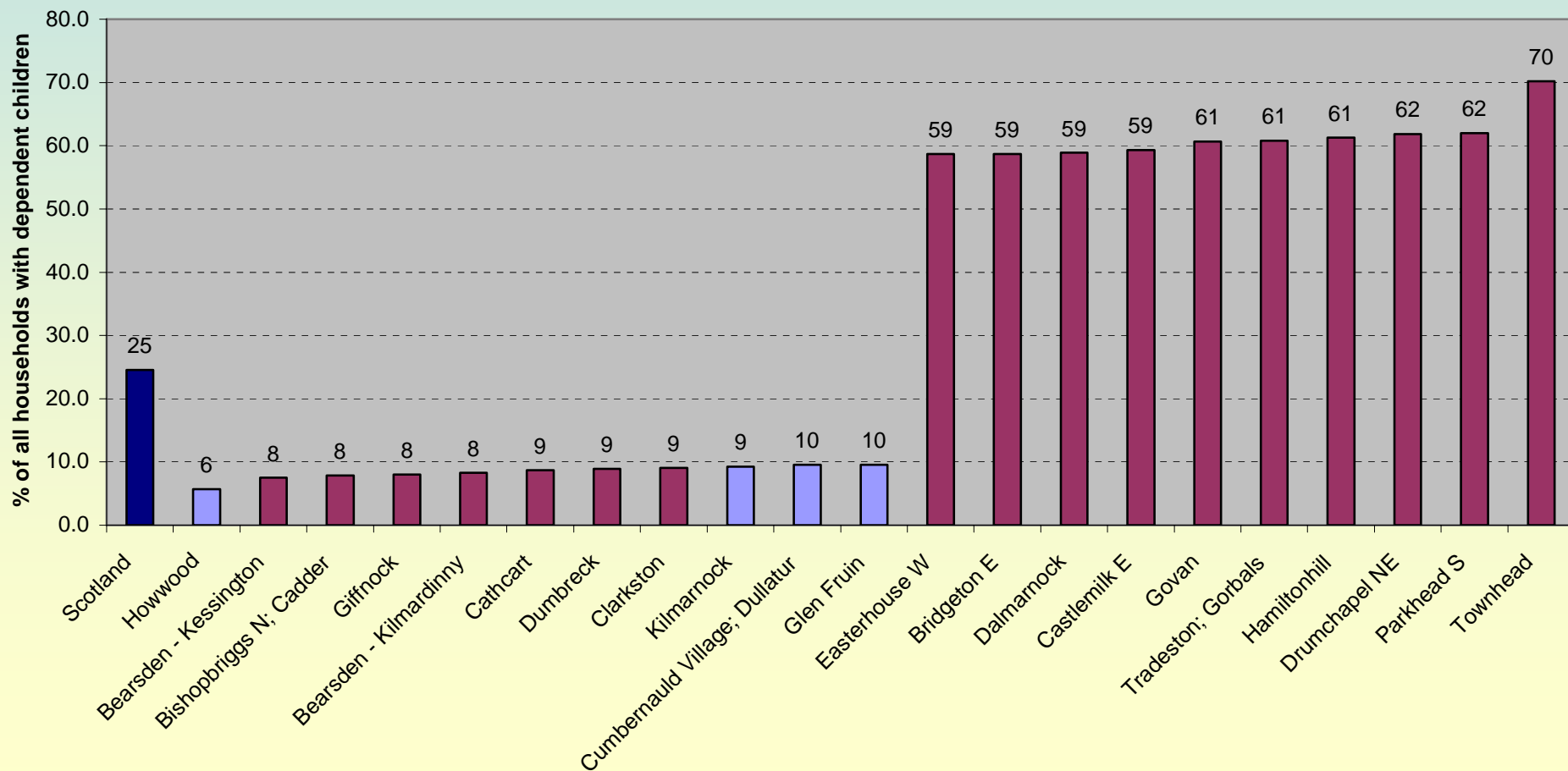
Source: 2001 Census



Lone parents

Lone parent households with dependent children
Glasgow & West of Scotland small areas with 10 highest, and lowest, rates, 2001

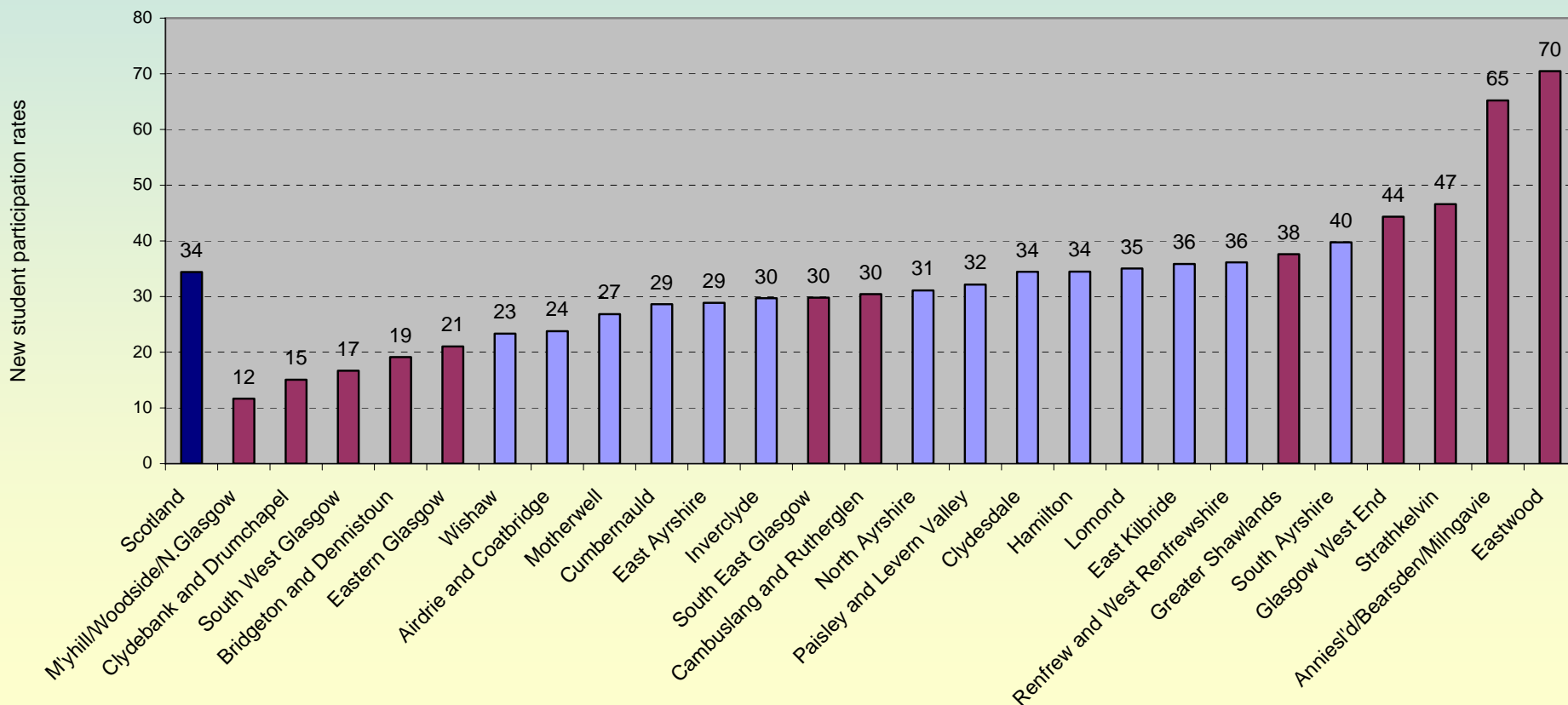
Source: 2001 Census



Education

Estimated new student participation rates in Higher Education,
West of Scotland and Glasgow communities, 2001/02 - 2003/04 (annual average rate)

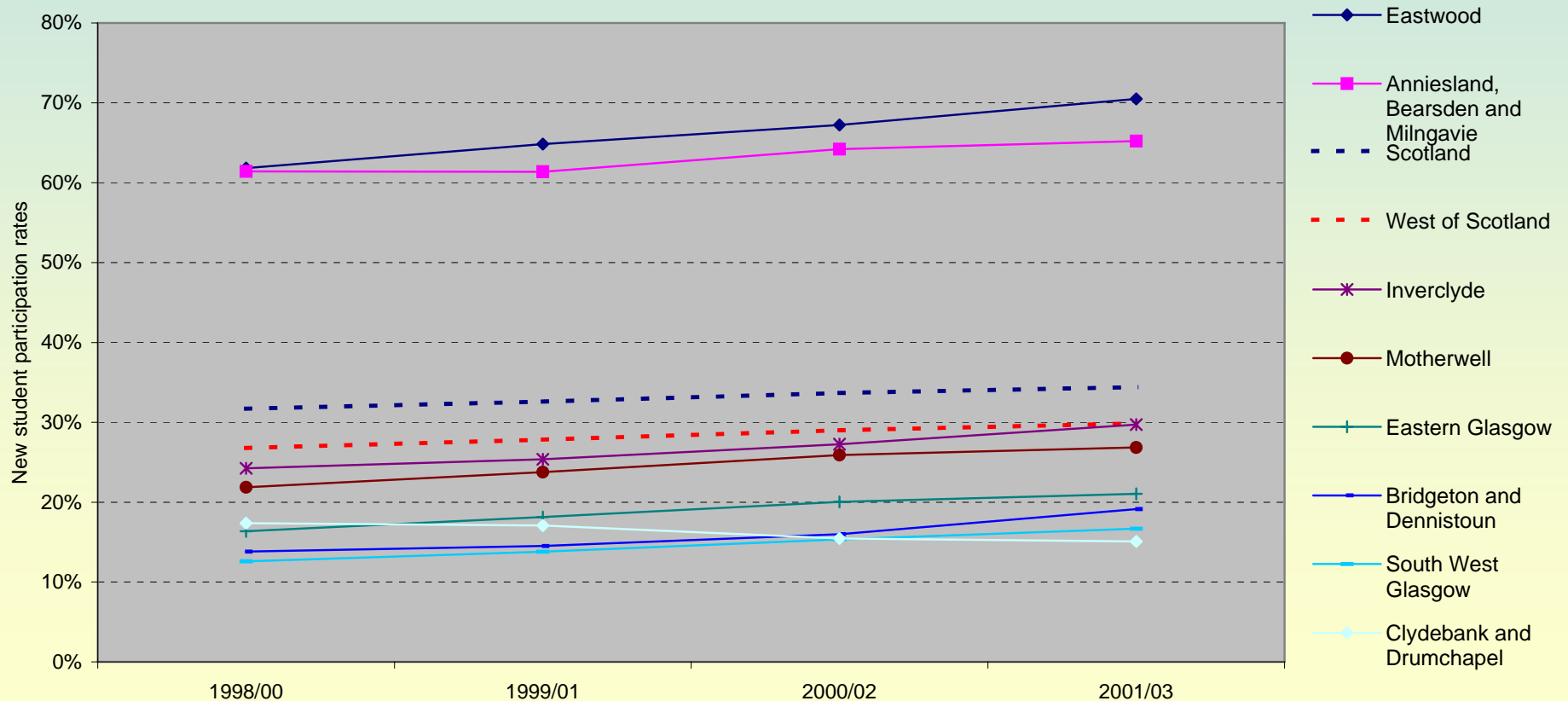
Source: HESA



Education

Trends in (estimated) new student participation rates in Higher Education,
Selected West of Scotland communities, 1998/00 - 2001/03 (annual average rates)

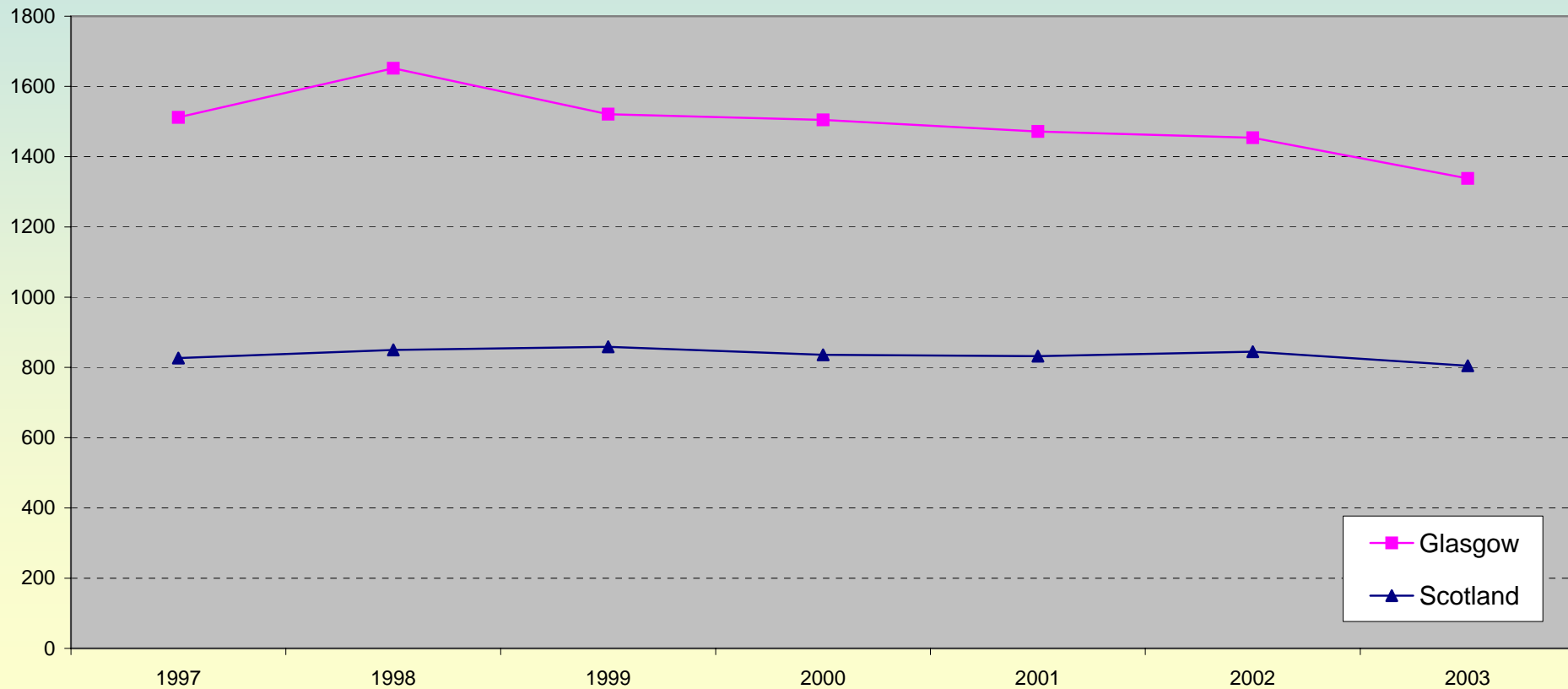
Source: HESA



Crime

All crimes per 10,000 population, Glasgow City & Scotland, 1997-2003

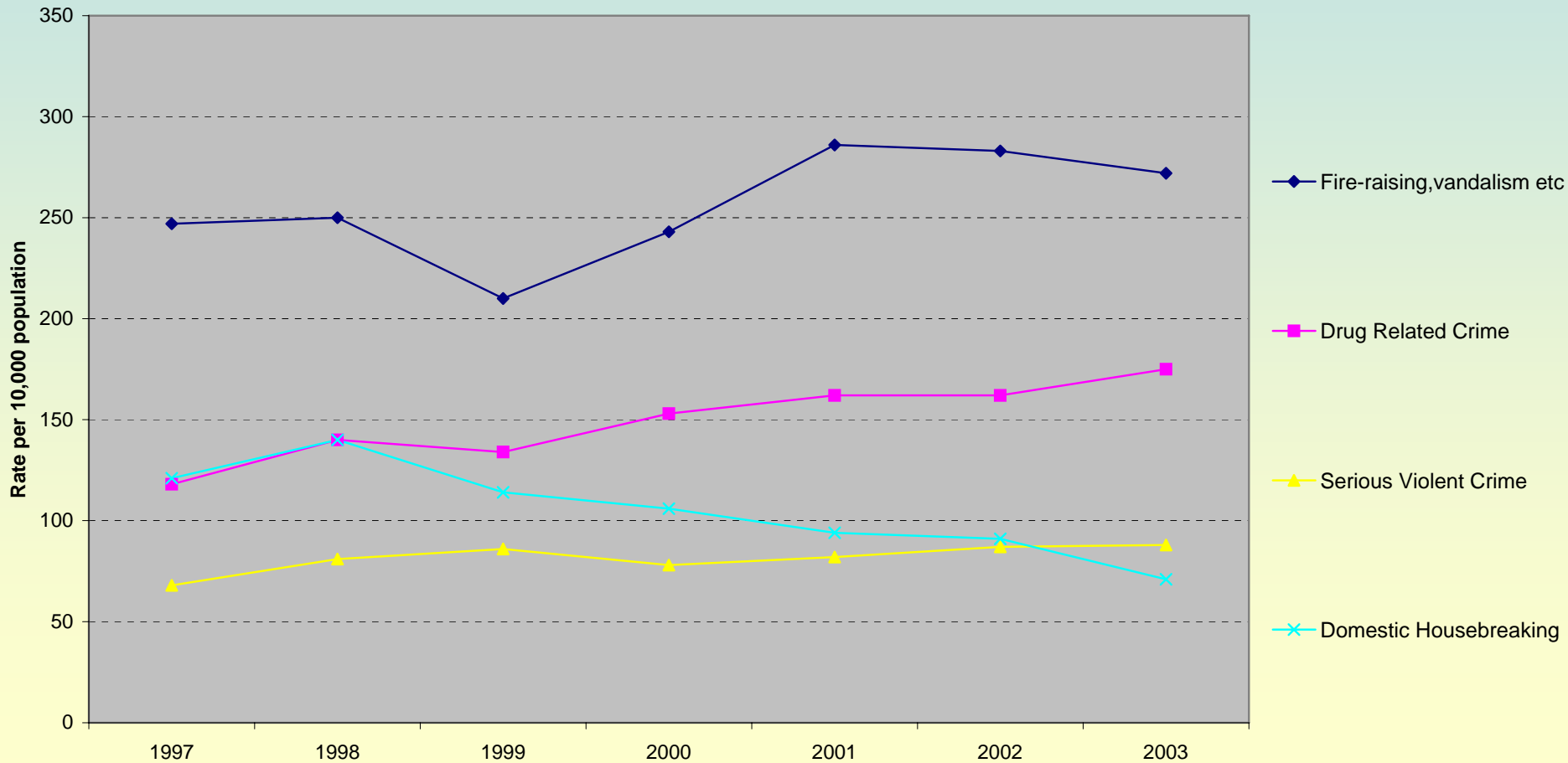
Source: Scottish Executive



Crime

Crime rates (selected categories), Glasgow City, 1997-2003

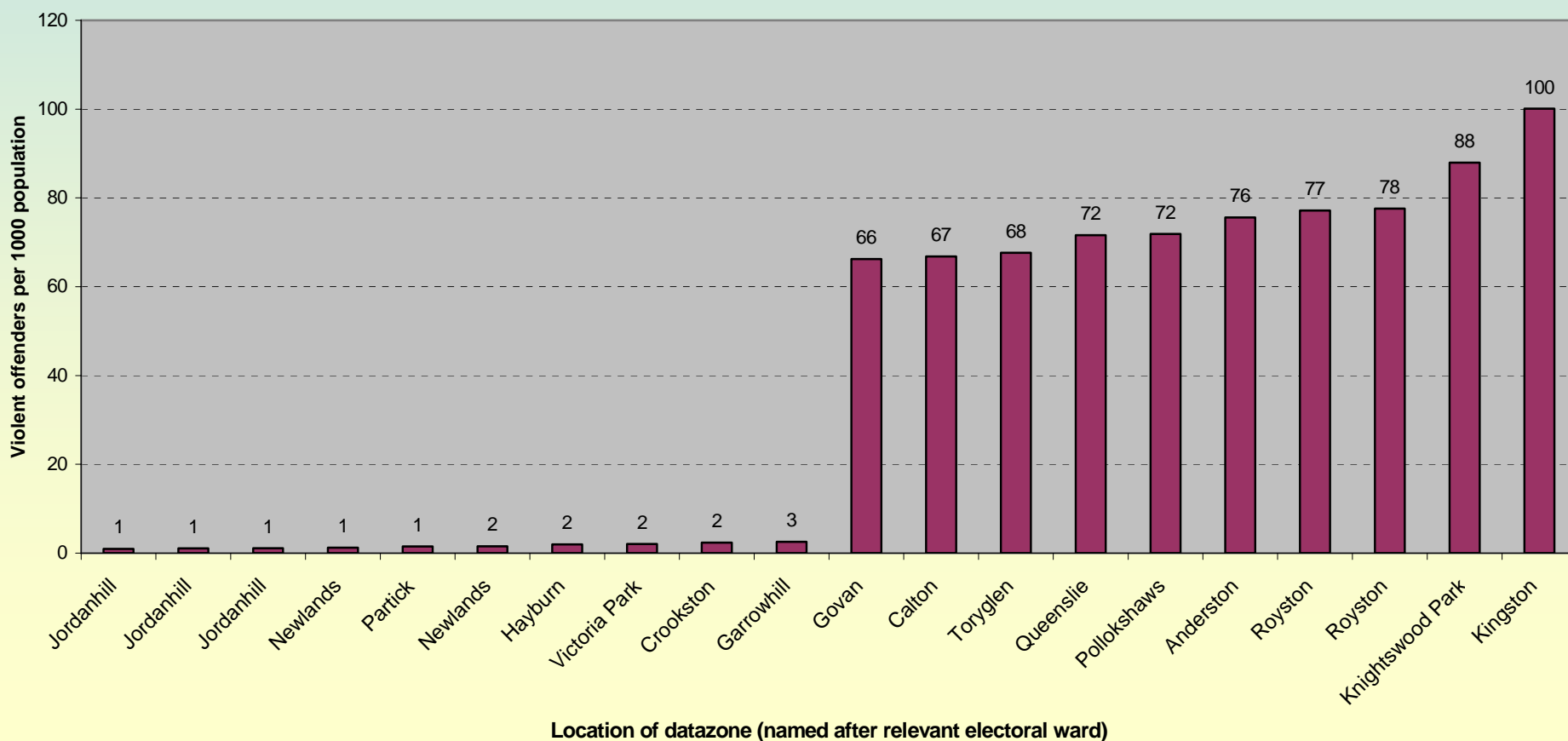
Source: Scottish Executive



Violent crime - offenders

Violent offenders per 1,000 population, Glasgow City, July 2002 - June 2005
Datazones with 10 highest rates vs. datazones with 10 lowest rates (over 3 years)

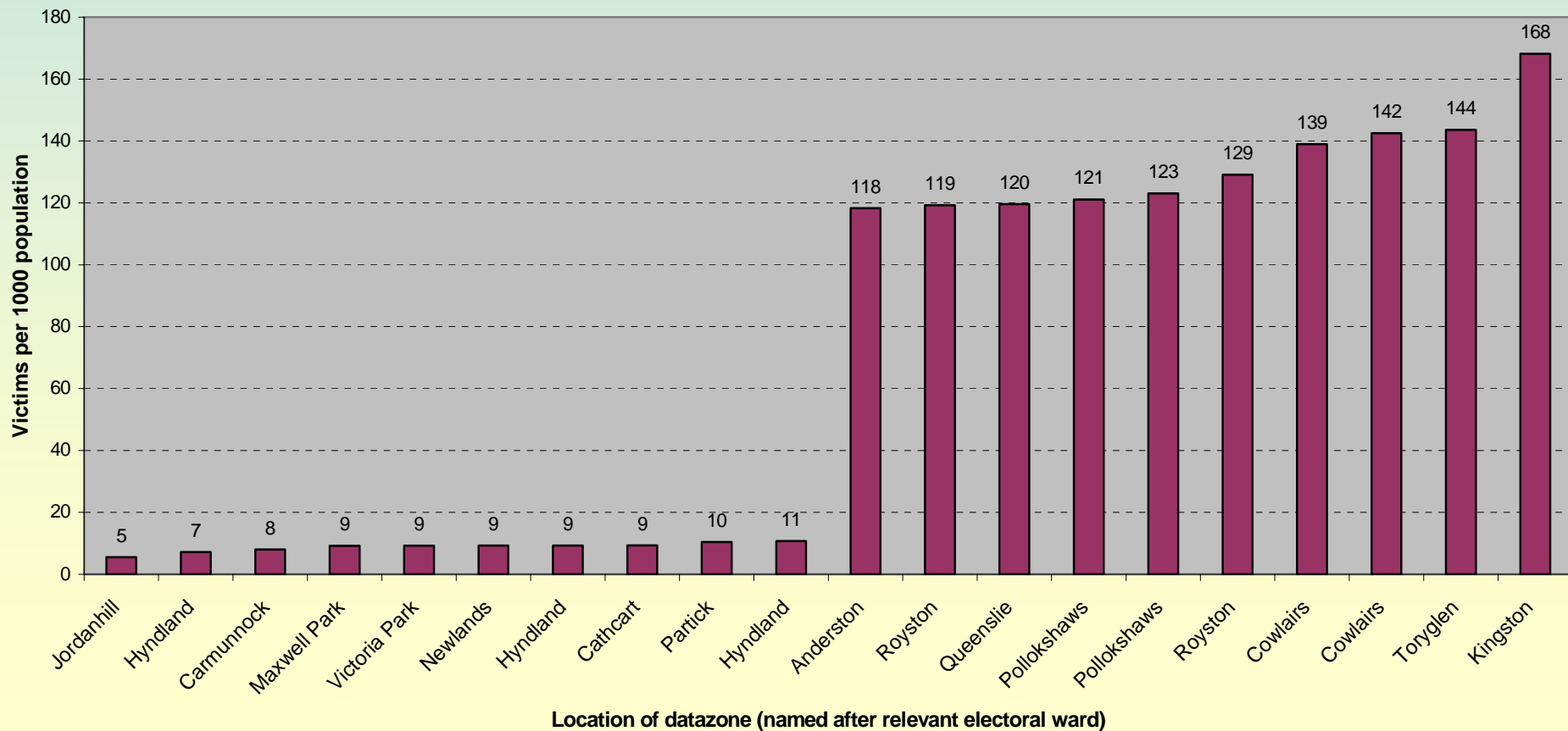
Source: Violence Reduction Unit, Strathclyde Police



Violent crime - victims

Victims of violent crime per 1,000 population, Glasgow City, July 2002 - June 2005
Datazones with 10 highest rates vs. datazones with 10 lowest rates (over 3 years)

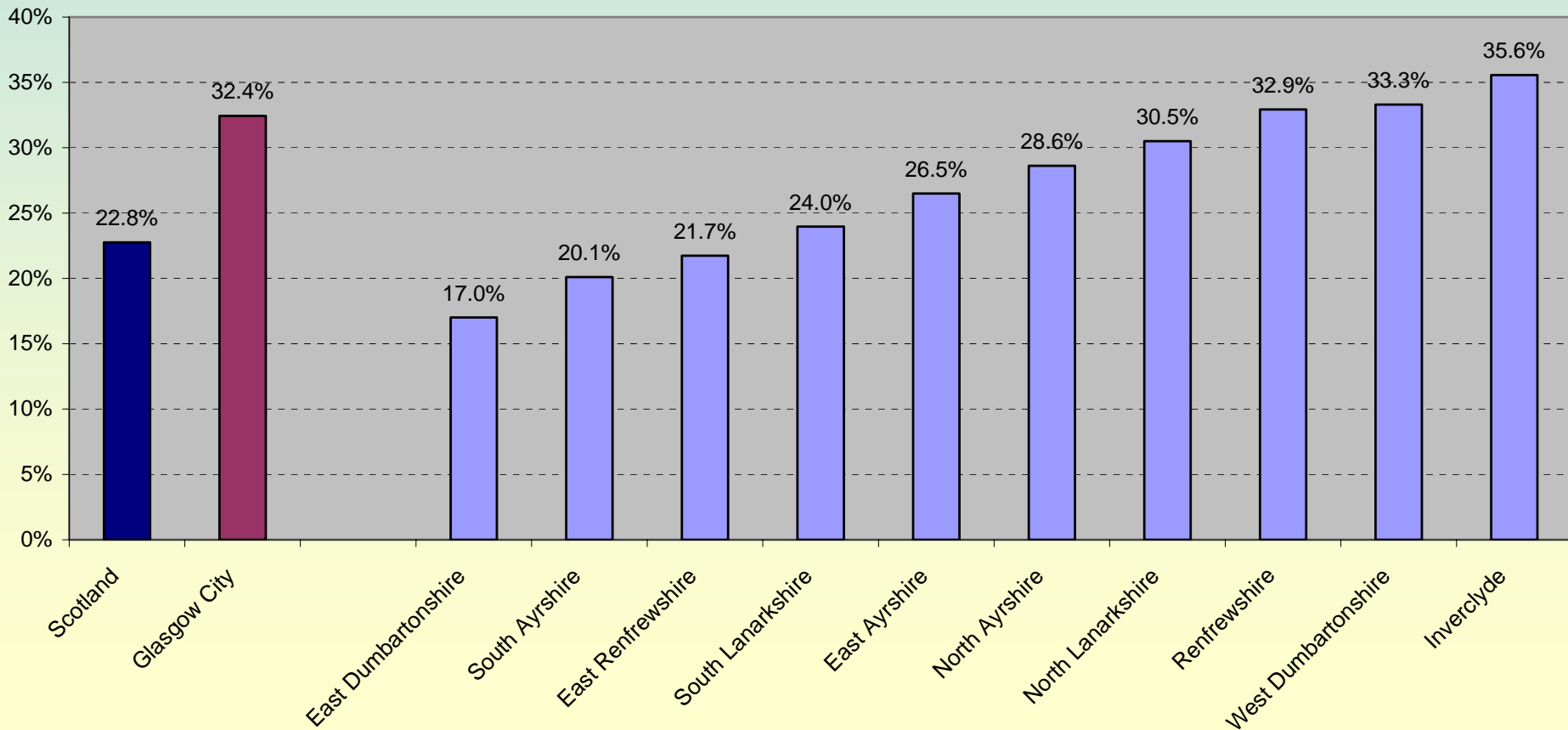
Source: Violence Reduction Unit, Strathclyde Police



Fear of crime

Fear of Crime - percentage of respondents stating they don't feel safe walking in their neighbourhood alone after dark, West of Scotland council areas, 2003-04

Source: Scottish Household Survey

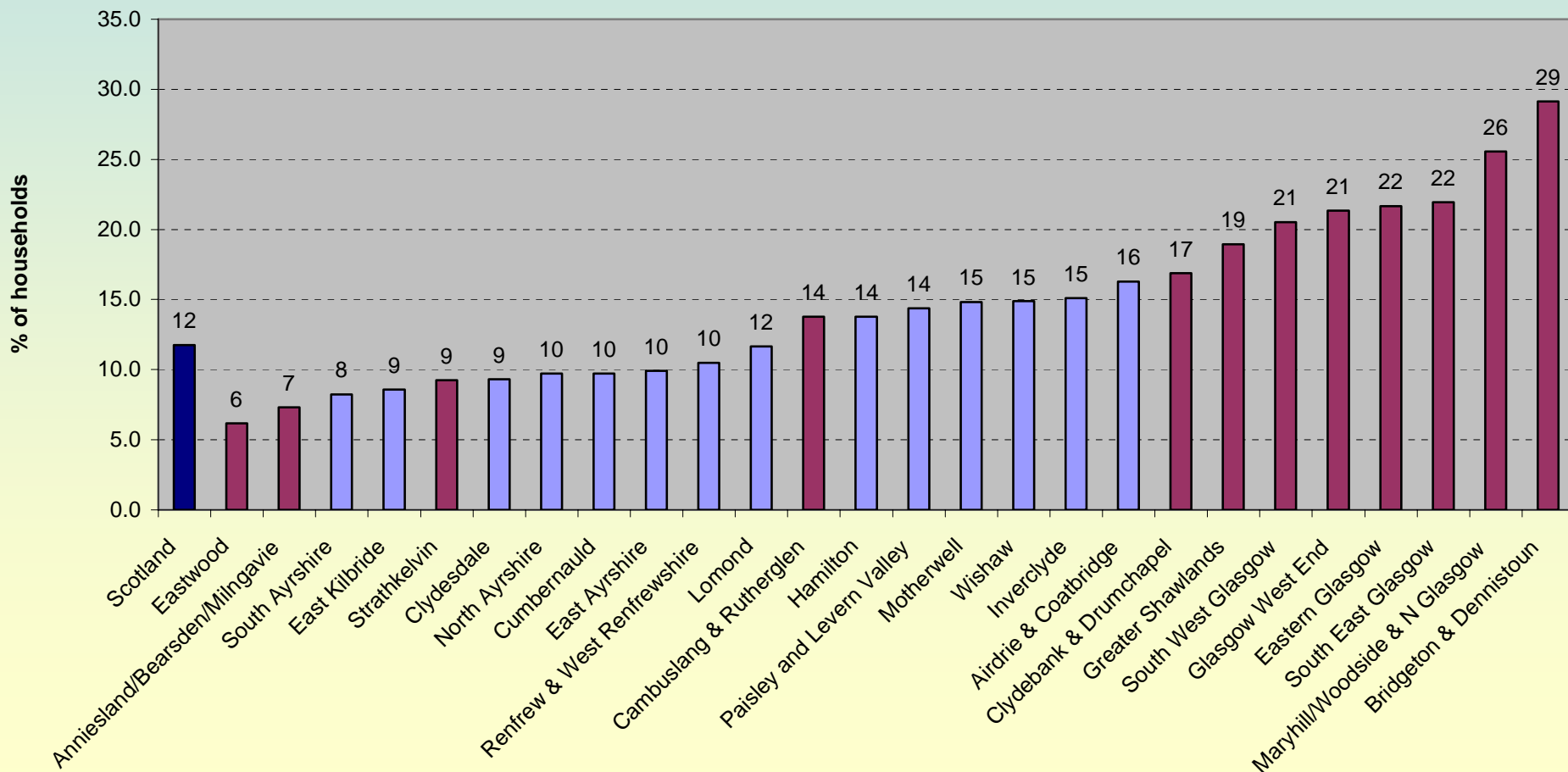


Physical environment

Overcrowding

Proportion of households classed as overcrowded,
West of Scotland and Glasgow Communities, 2001

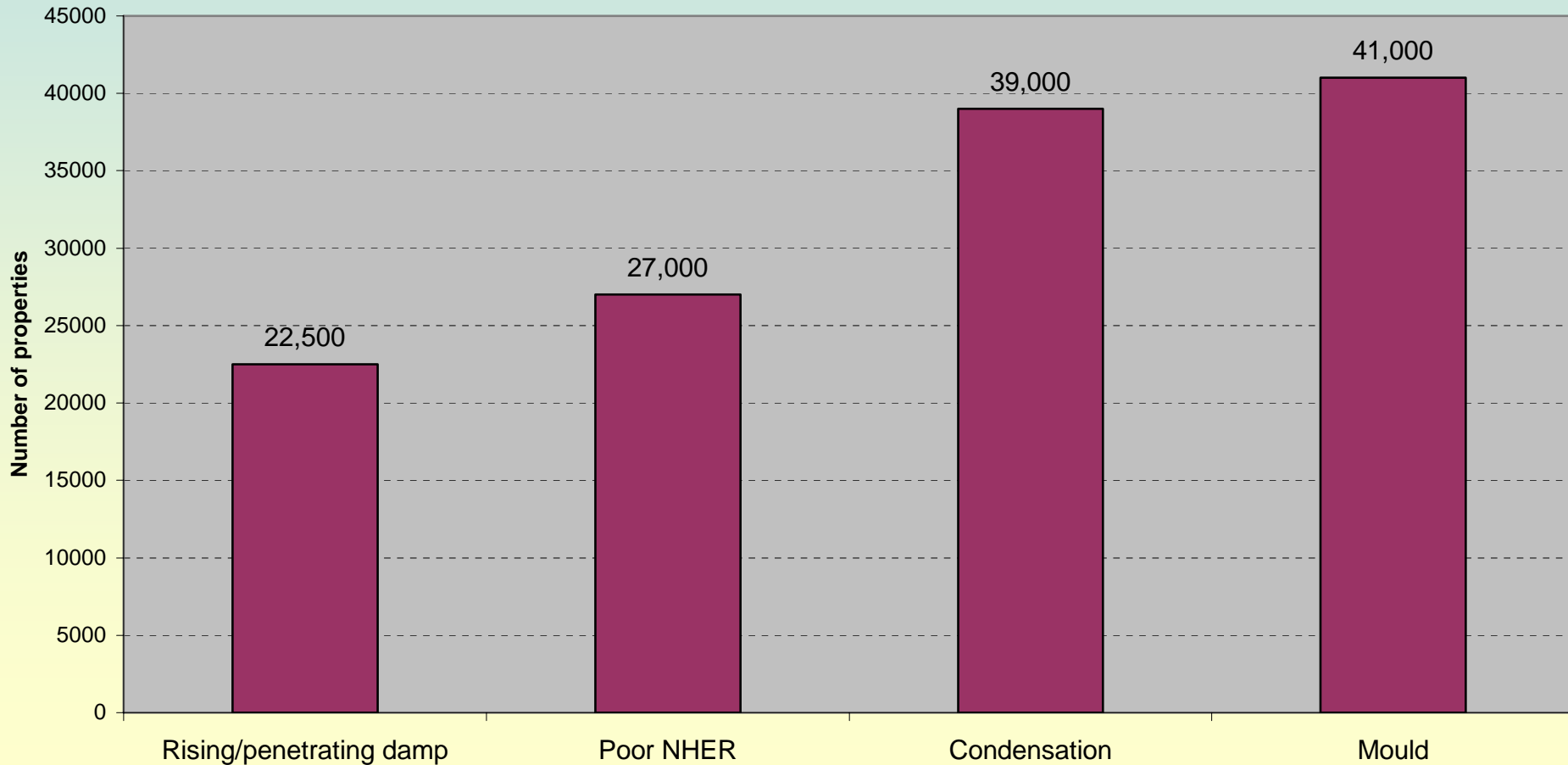
Source: Census/NHS Community profiles



House condition

Estimated numbers of properties with damp, condensation, mould, poor National Home Energy Rating (NHER), Greater Glasgow 2002

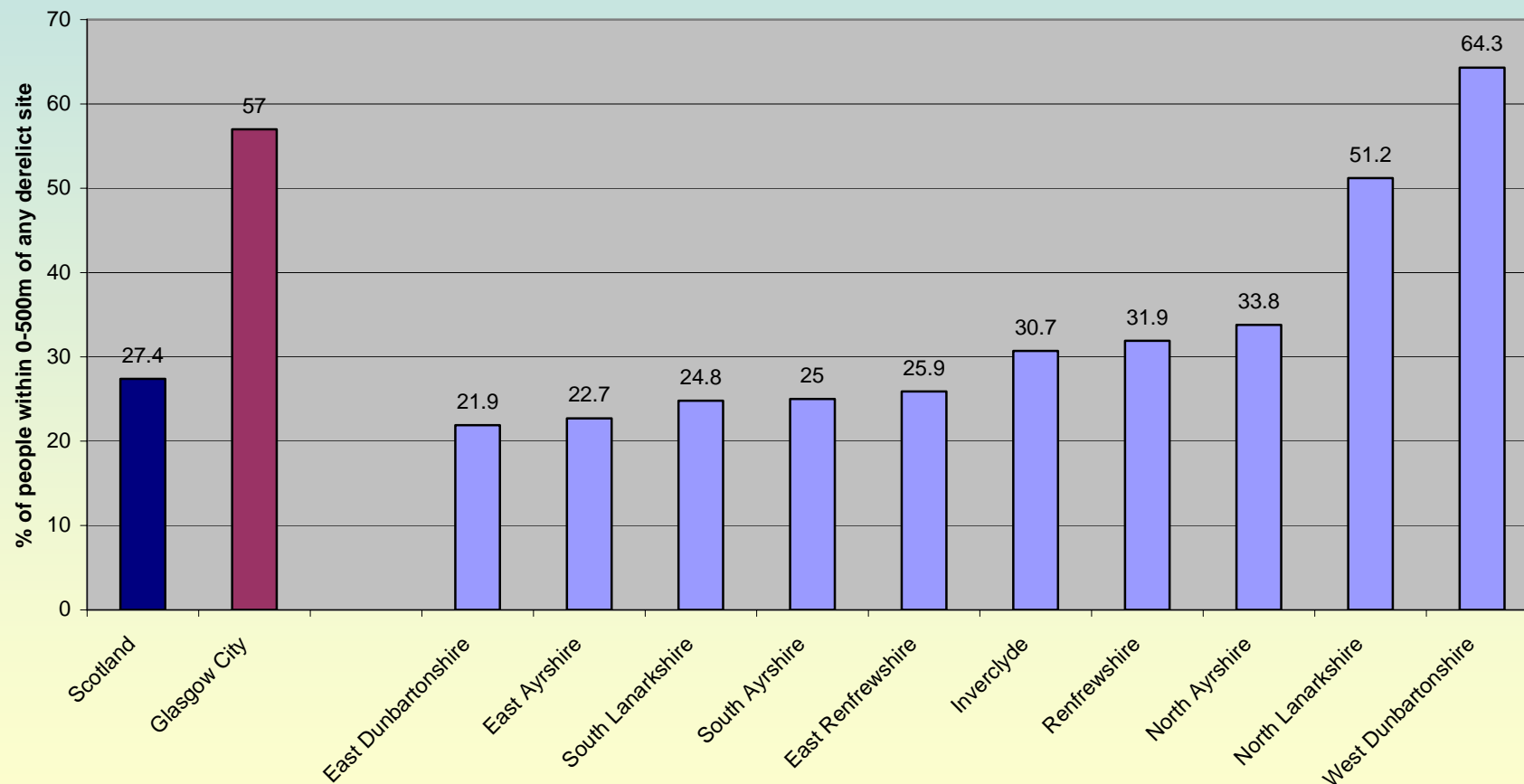
Source: SHCS



Proximity to Derelict Land

Proximity to Derelict Sites; % of people within 0-500m of any derelict site; 2004;
West of Scotland Councils & Scotland

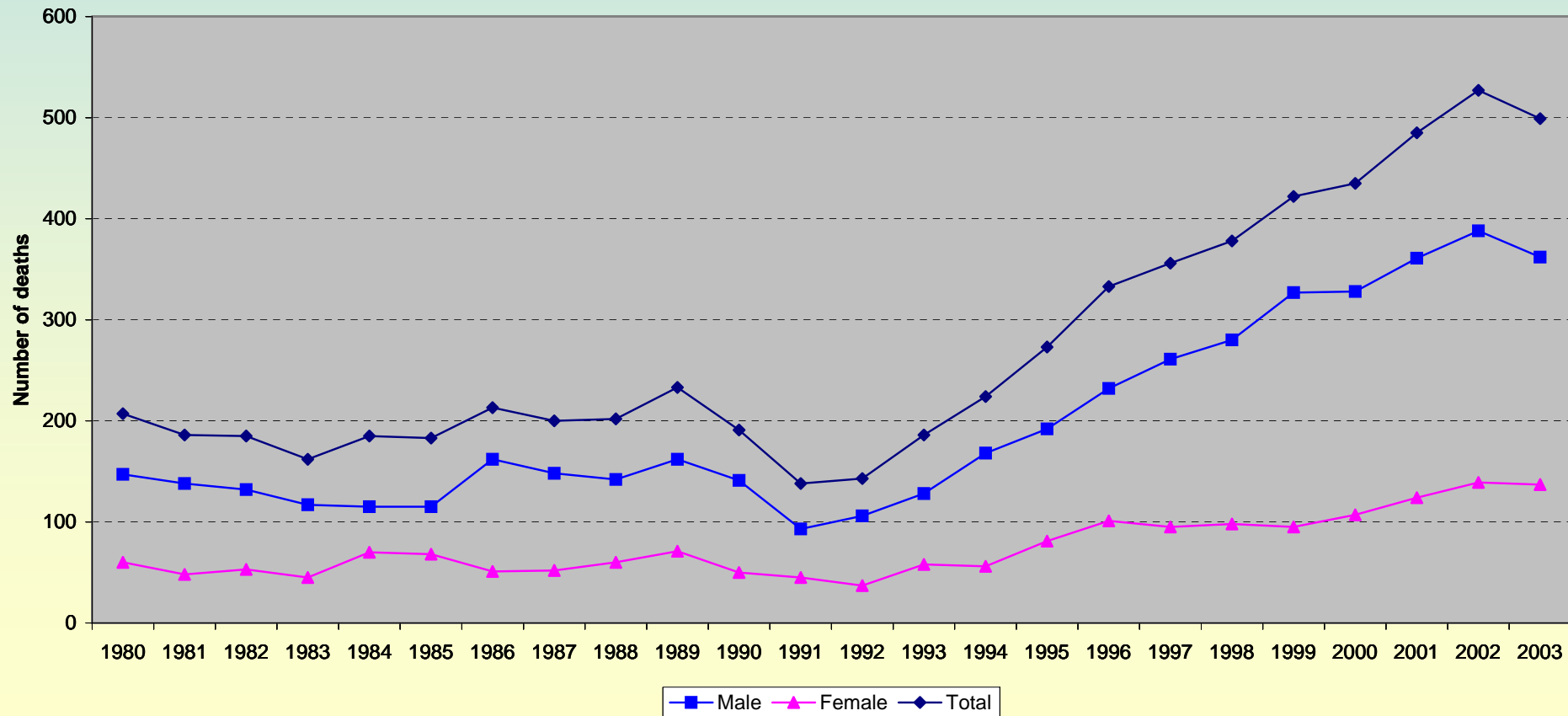
From SNS web site; Original source: Scottish Vacant and Derelict Land Survey



Behaviour

Alcohol related mortality

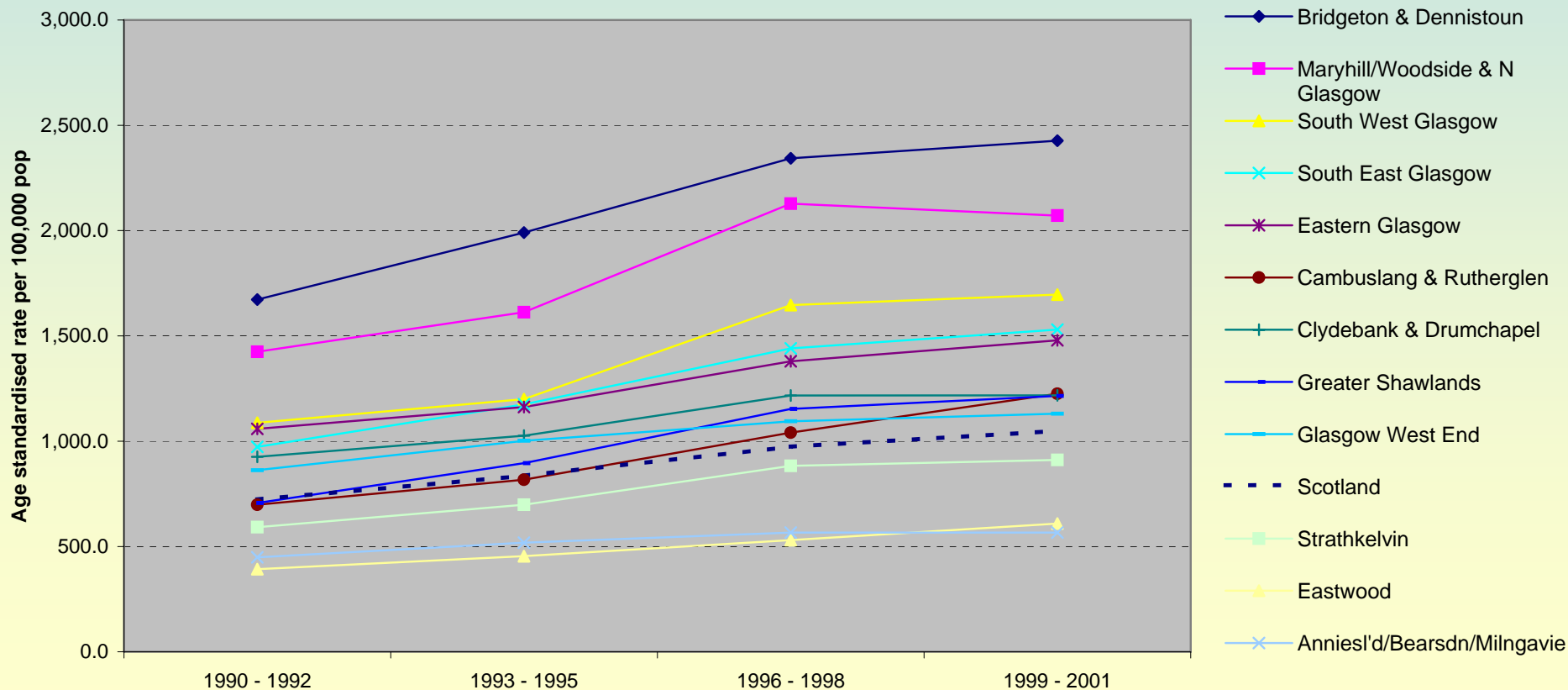
Numbers of alcohol related deaths, NHS Greater Glasgow, 1980-2003
Principal ("underlying") and secondary ("contributing") causes of death
Source: GRO(S)



Alcohol hospitalisations

Alcohol related & attributable hospital admissions
by Glasgow "community", age-standardised rates, 1990/92 - 1999/01

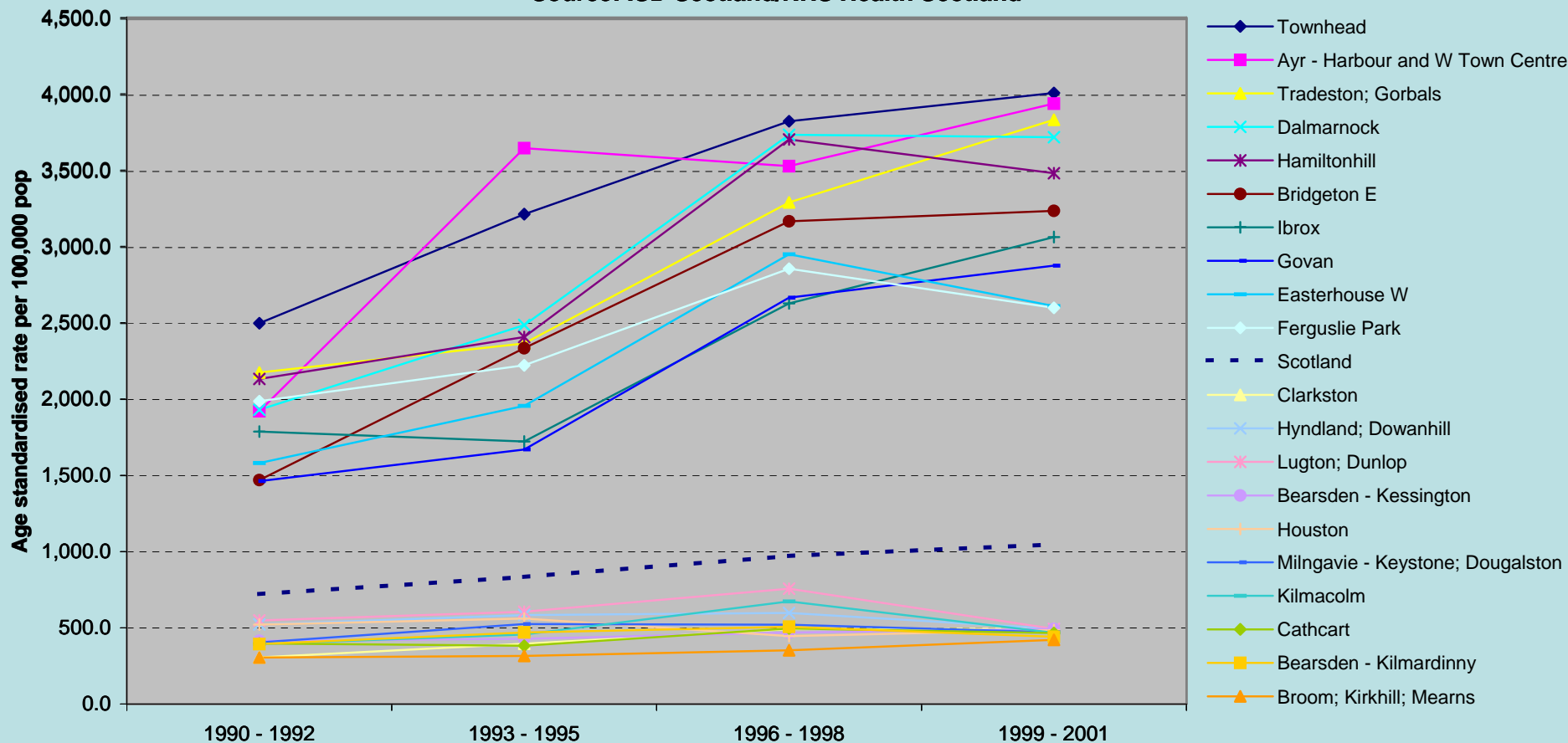
Source: ISD Scotland/NHS Health Scotland



Alcohol hospitalisations

Alcohol related & attributable hospital admissions for West of Scotland small areas (with lowest & highest rates in 1999/2001), age-standardised rates, 1990/92 - 1999/01

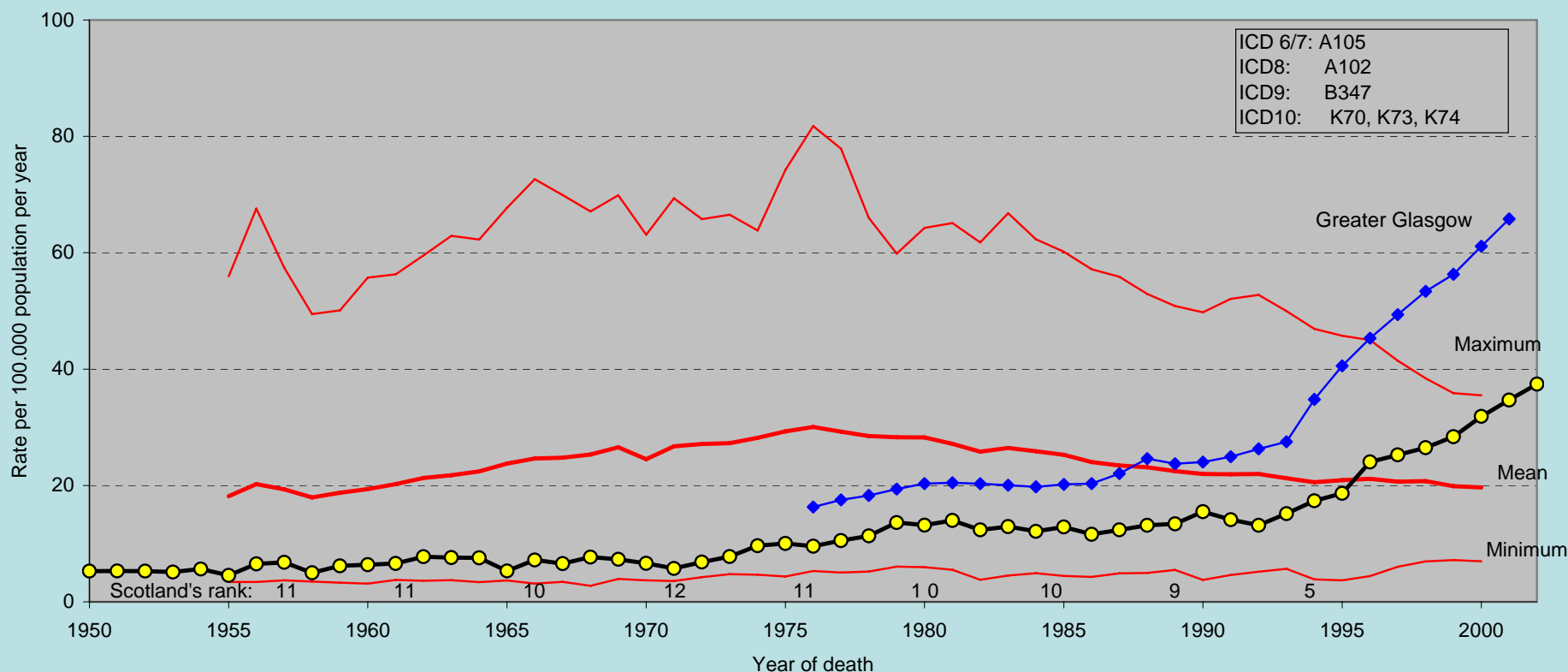
Source: ISD Scotland/NHS Health Scotland



Liver cirrhosis mortality

Liver cirrhosis mortality age standardised rates among men aged 15-74 years
Scotland in context of maximum, minimum, and mean rates for 16 Western European countries

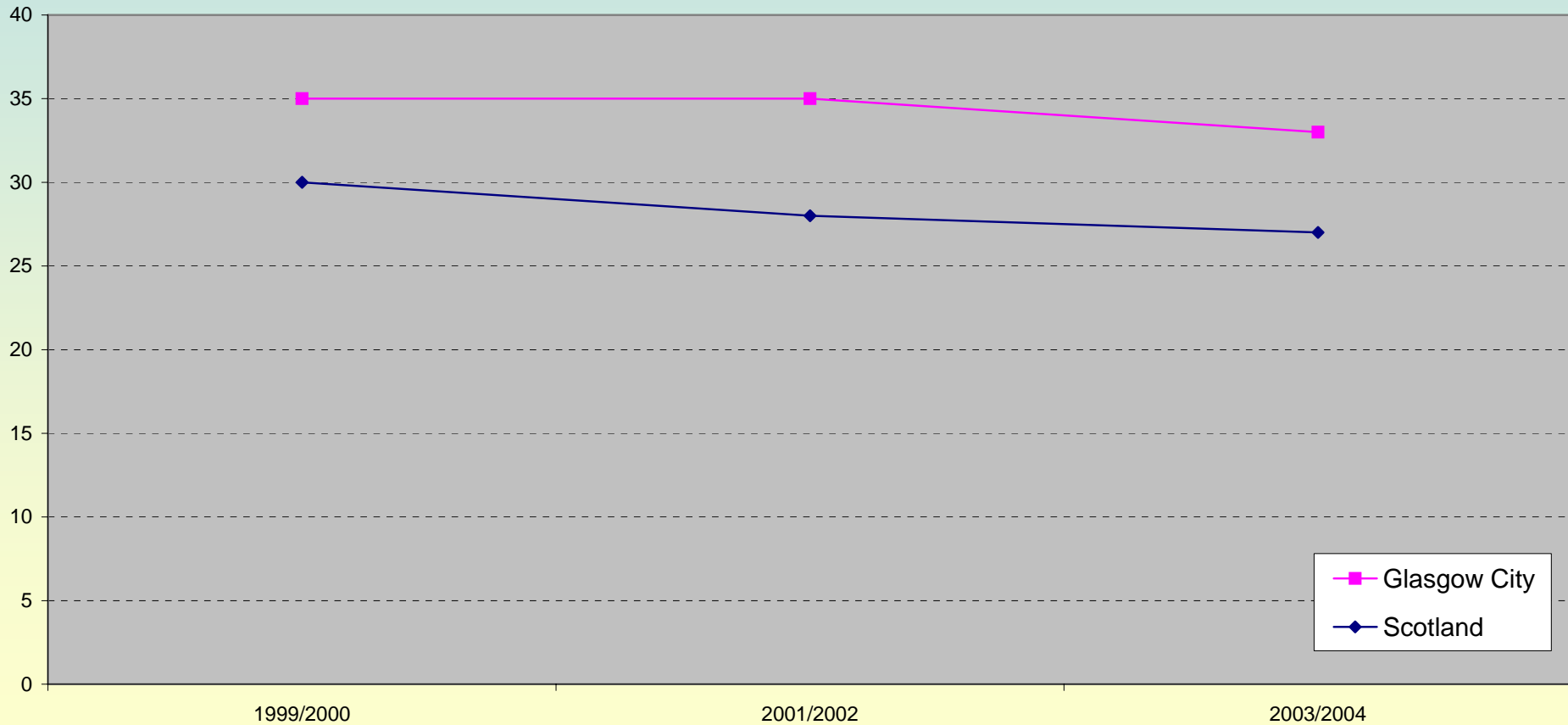
Source: WHOSIS (Dec 2004)



Smoking

Percentage of adults smoking, 1999/00 - 2003/04

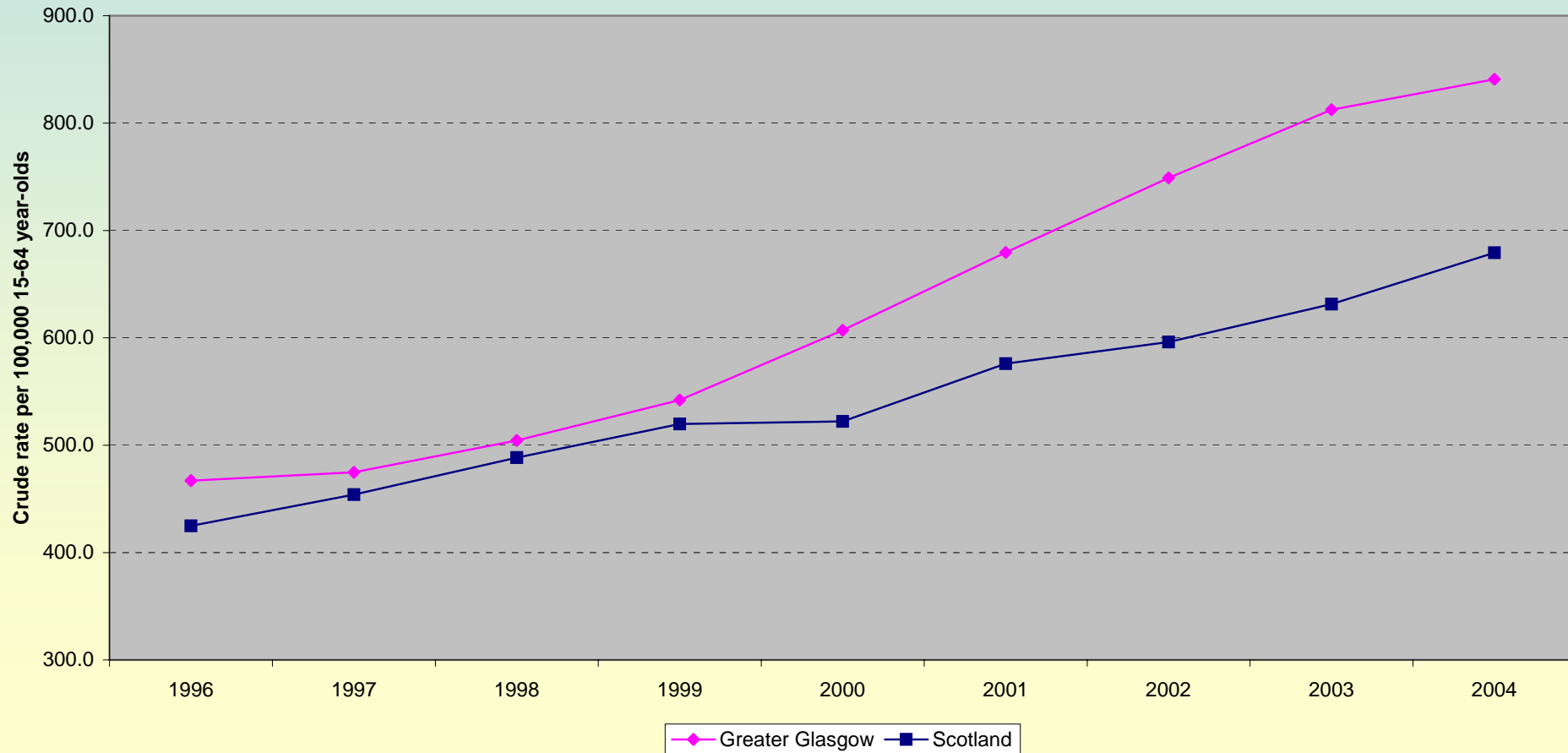
Source: Scottish Household Survey



Sexually Transmitted Infections

Acute Sexually Transmitted Infection Rates, Greater Glasgow & Scotland

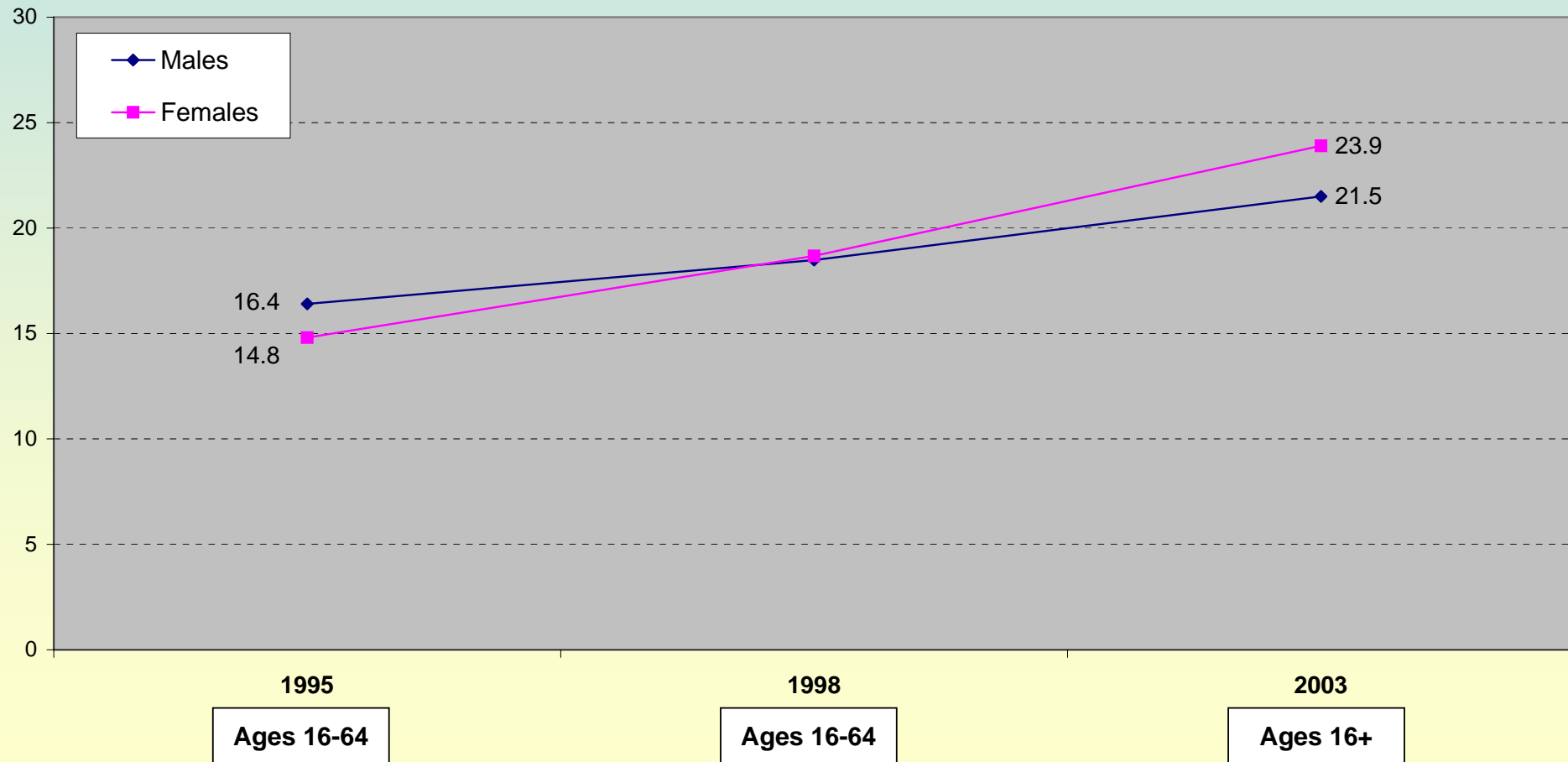
Source: ISD Scotland



Obesity

% of adults classed as obese (BMI>30), Greater Glasgow, 1995, 1998 & 2003

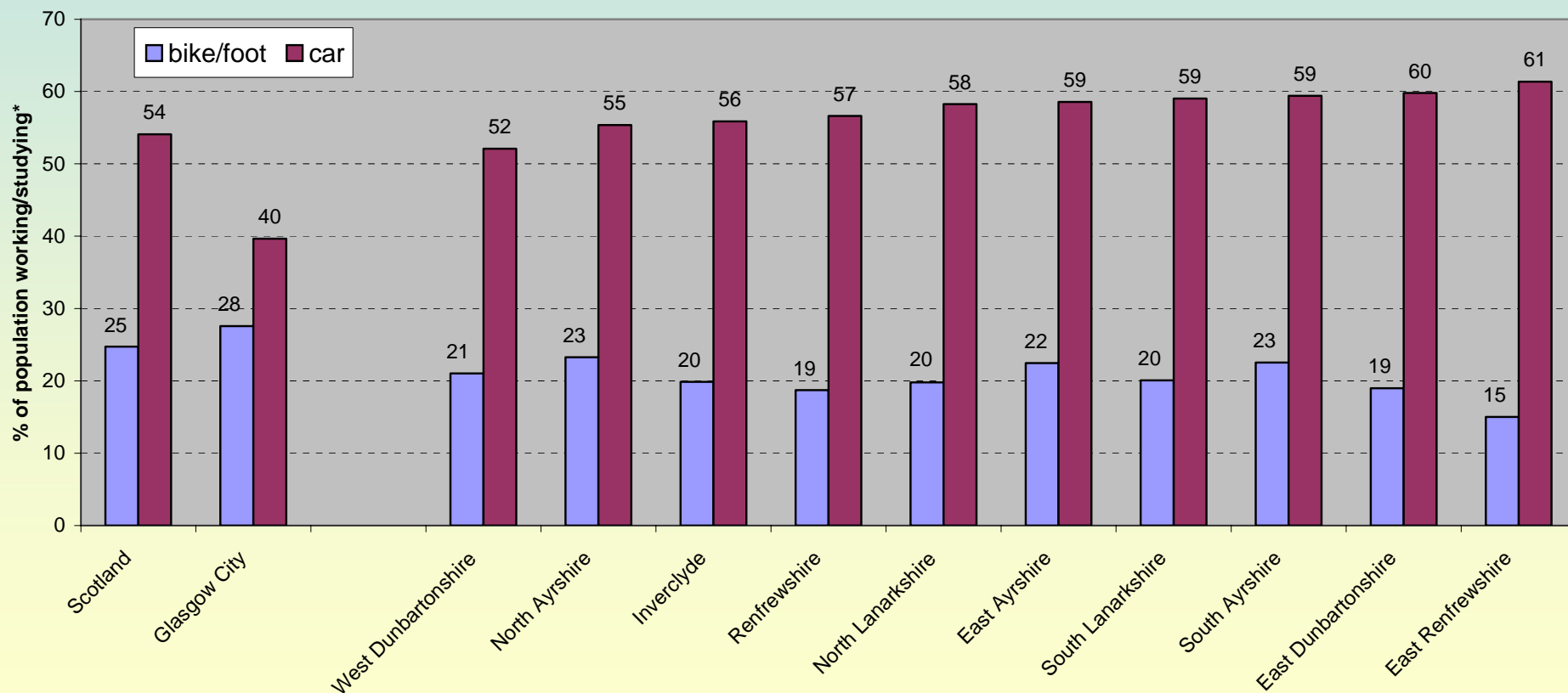
Source: Scottish Health Surveys



Travel

Travel to work/study by bicycle/foot and car, 2001

Source: 2001 Census

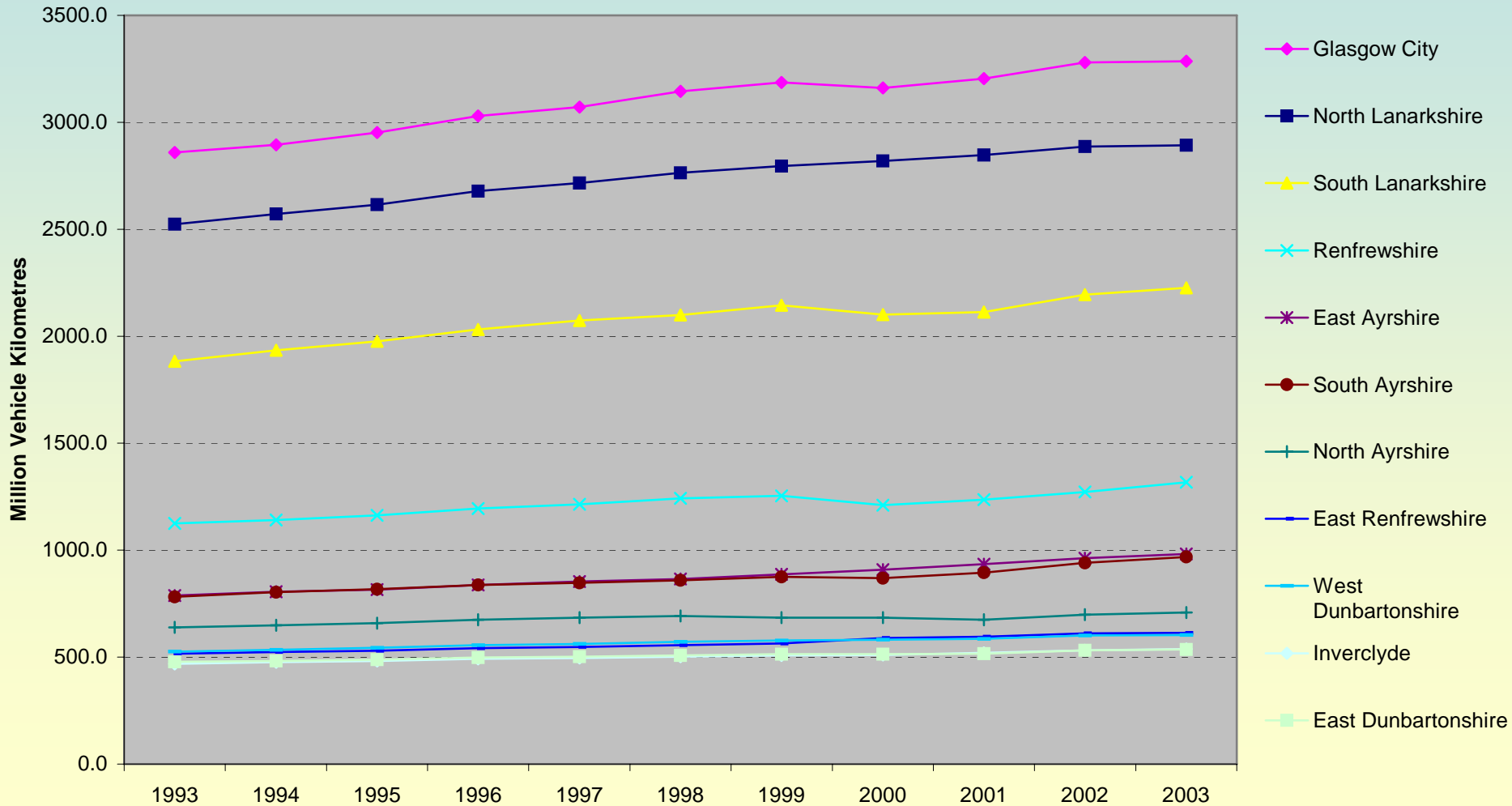


* Excludes those working/studying at home

Travel

Estimates of traffic volume in vehicle kilometres, 1993-2003

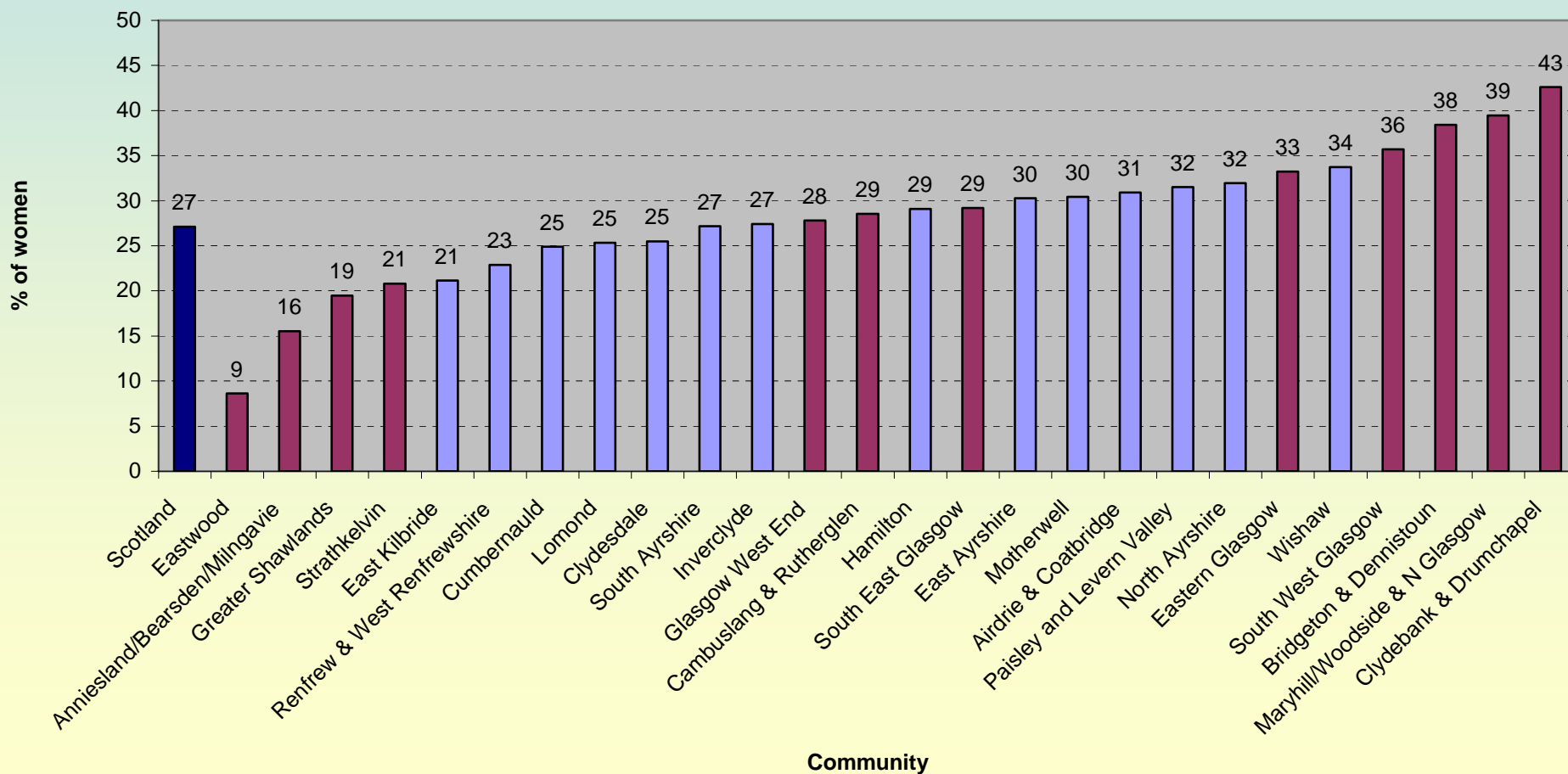
Source: SE - Scottish Transport Statistics 2004



Pregnancy & childbirth

Smoking during pregnancy

**% Maternal smoking at hospital booking,
Glasgow & West of Scotland communities 2000-02**
Source: NHS HS - Community Health Profiles, 2004 (from ISD data)

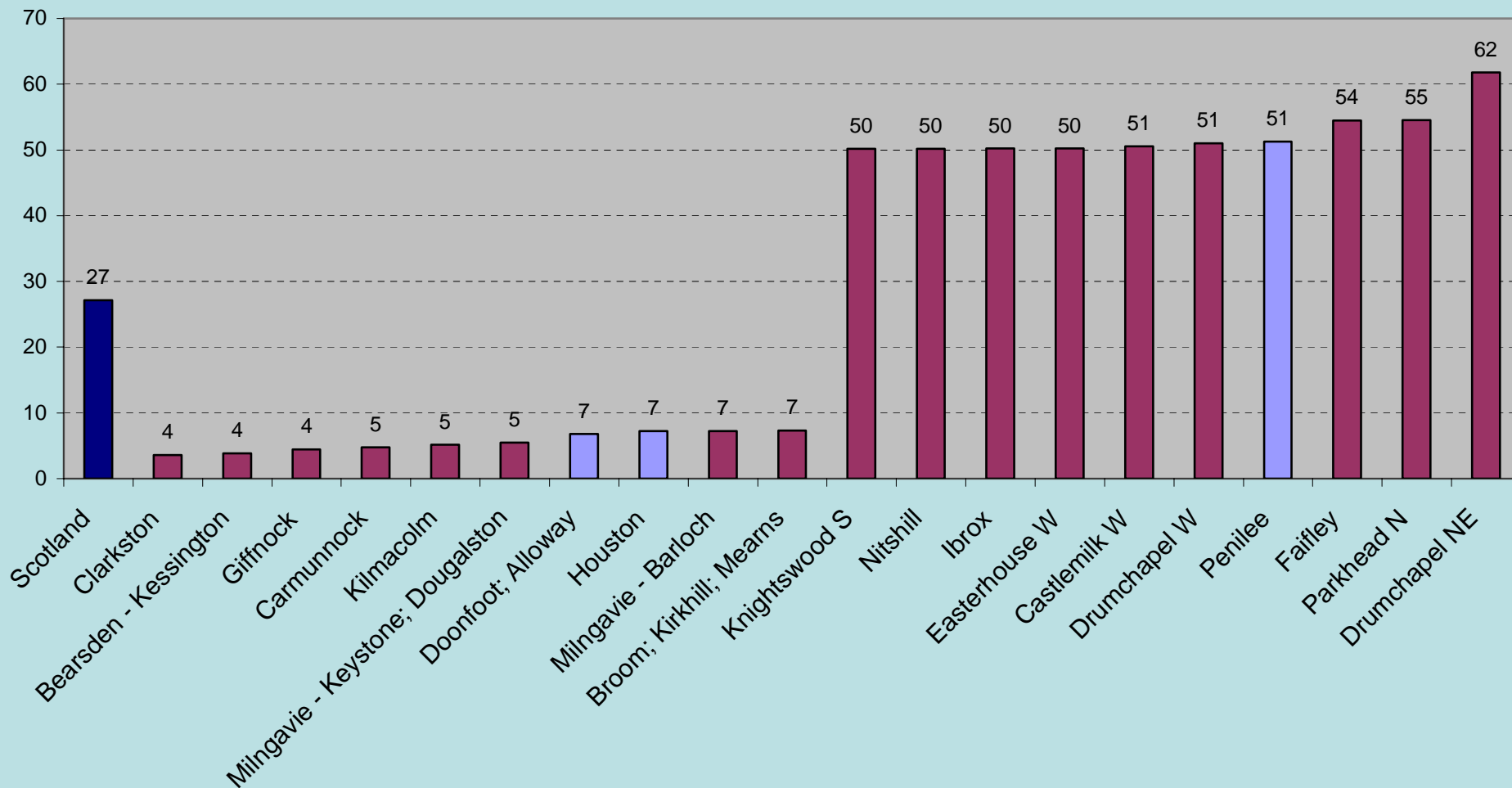


Smoking during pregnancy

% Maternal smoking at hospital booking, 2000-2002

Glasgow/West of Scotland small areas with 10 highest and 10 lowest rates

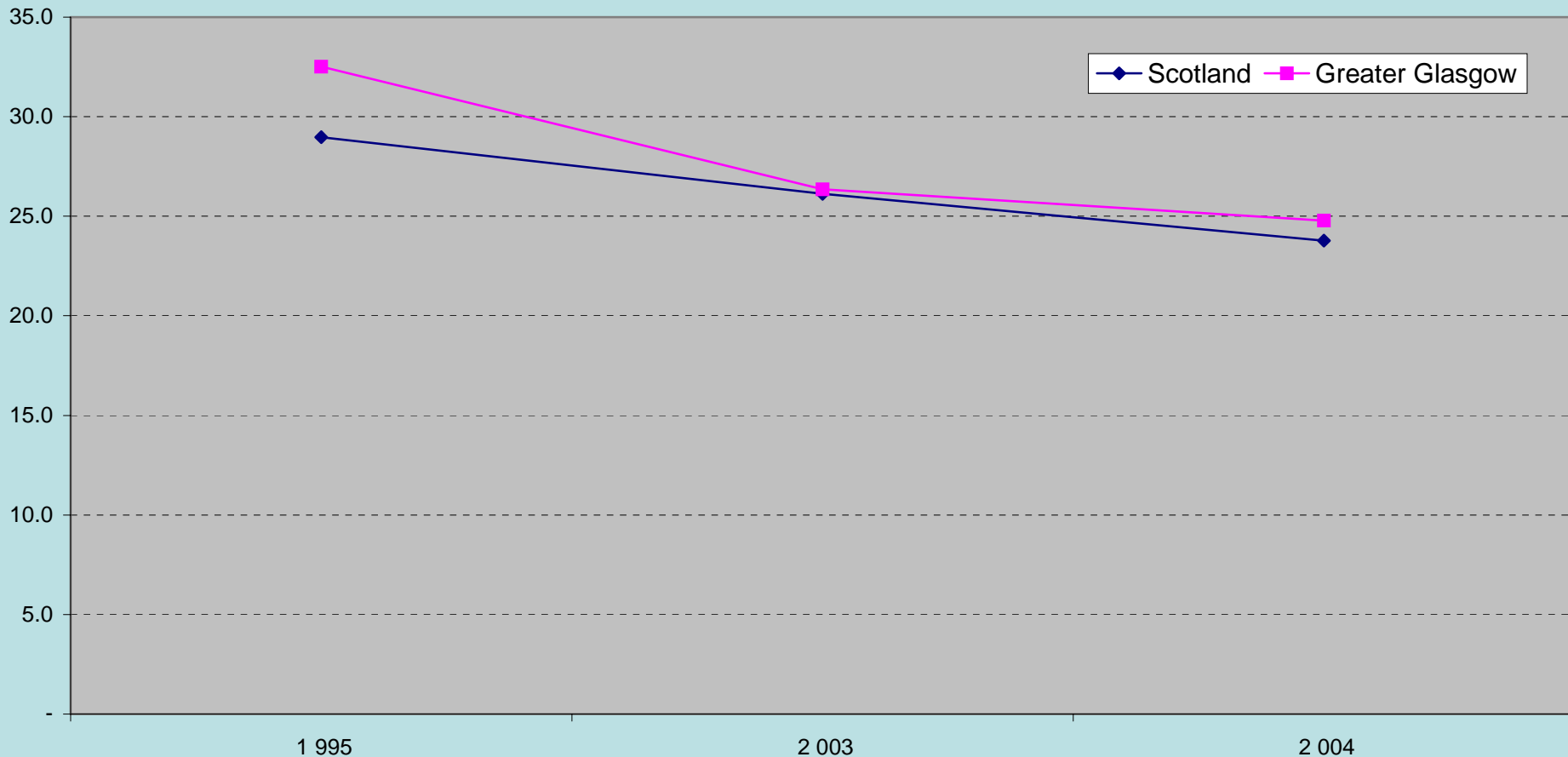
Source: NHS HS - Community Health Profiles, 2004 (from ISD data)



Smoking during pregnancy

% Maternal smoking at hospital booking, 1995-2004*

Source: ISD Scotland

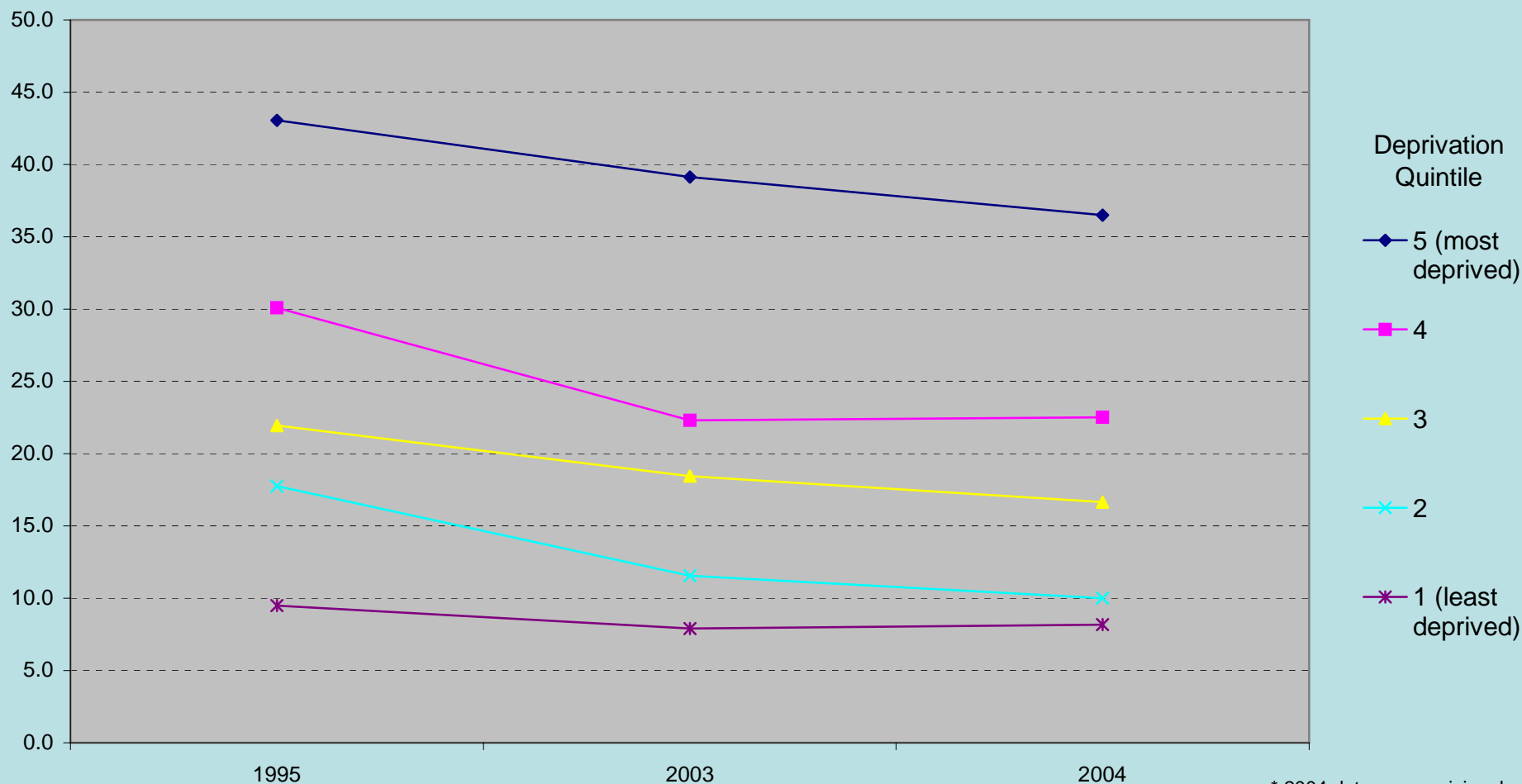


* 2004 data are provisional

Smoking during pregnancy

% Maternal smoking at booking by deprivation, NHS Greater Glasgow 1995-2004*

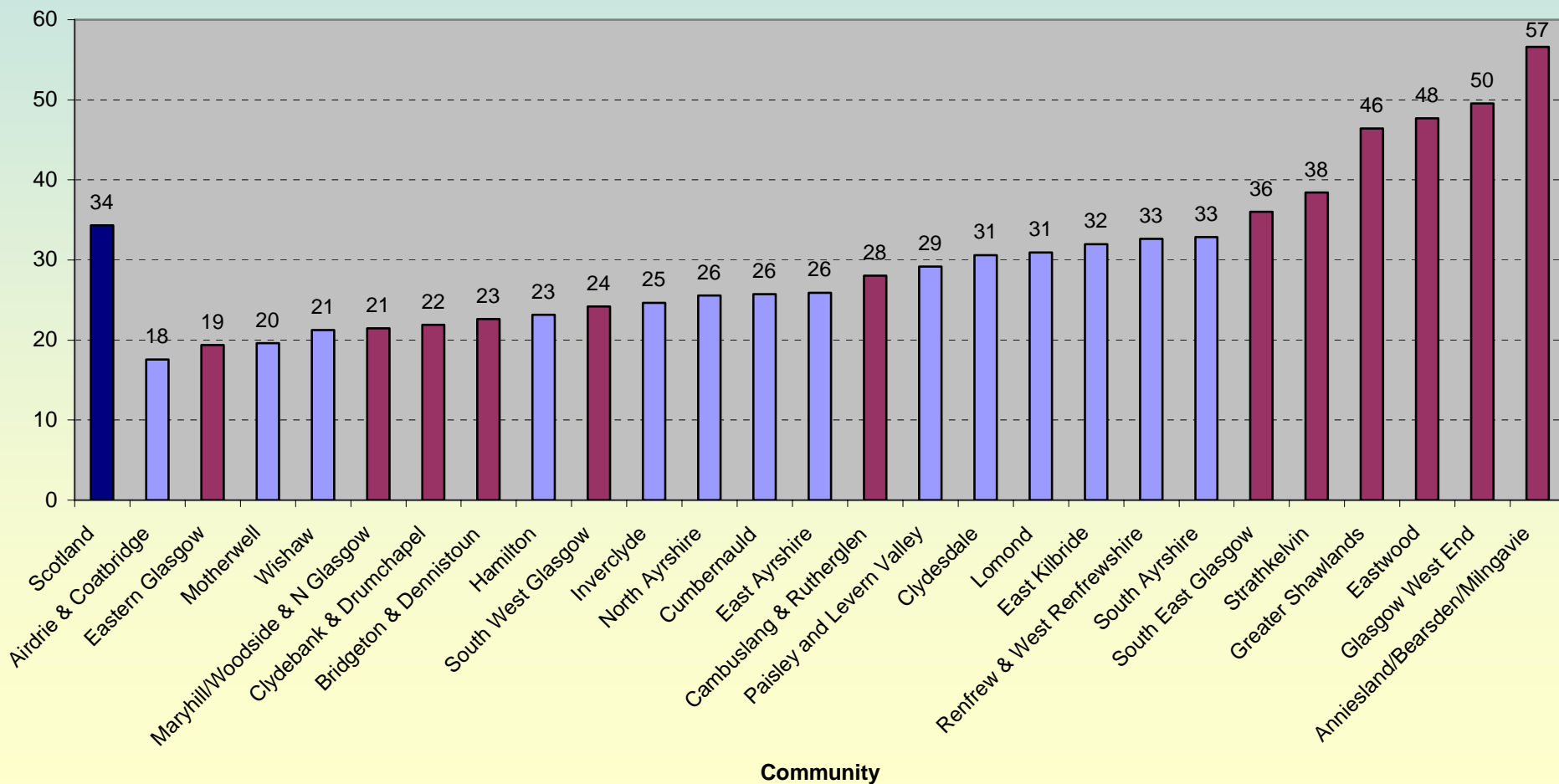
Source: ISD Scotland



* 2004 data are provisional

Breastfeeding

% breastfeeding at 6-8 weeks,
West of Scotland and Glasgow communities 2000-2002
Source: NHSHS - Community Health Profiles (from ISD data)

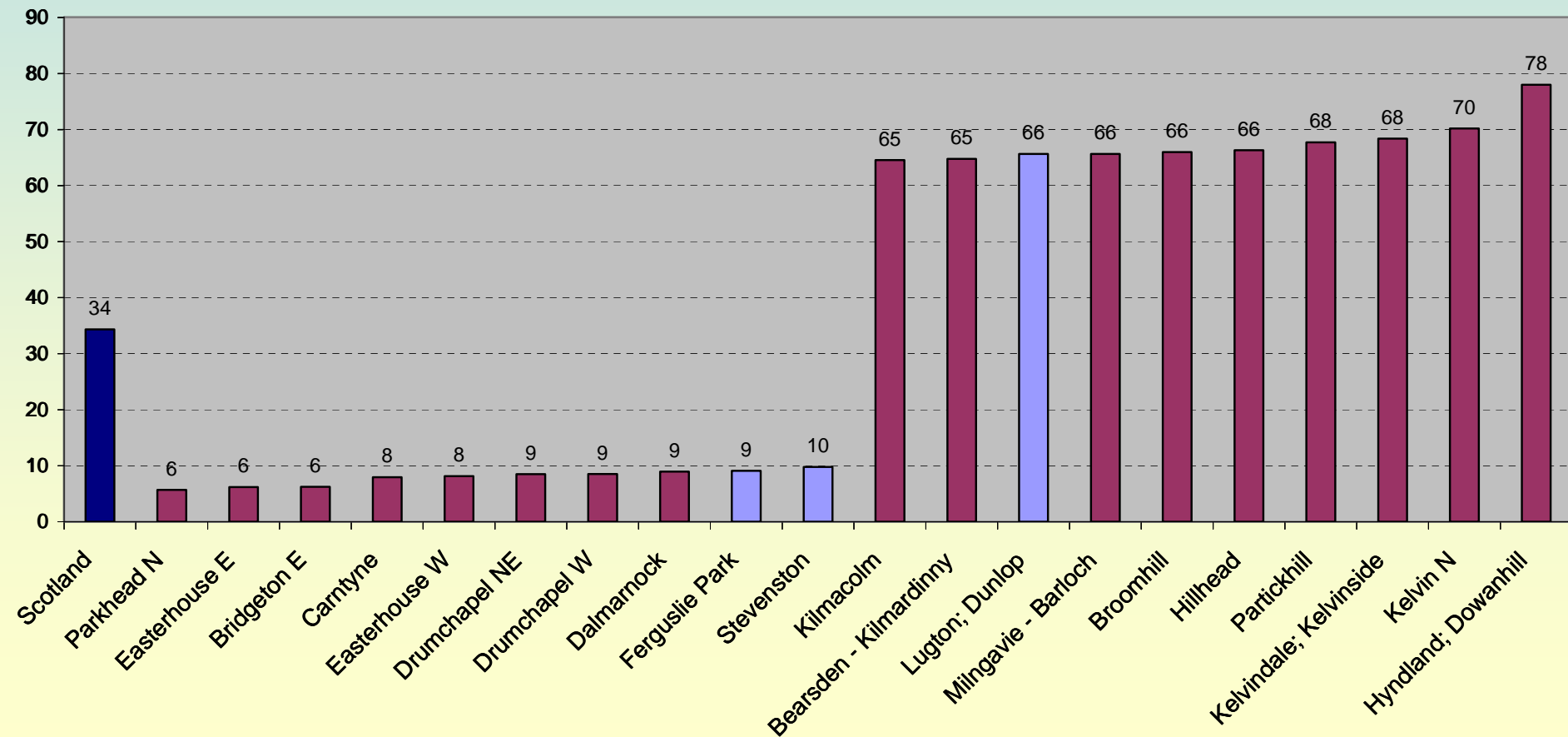


Breastfeeding

% breastfeeding at 6-8 weeks, 2000-2002

Glasgow/West of Scotland small areas with 10 highest and 10 lowest rates

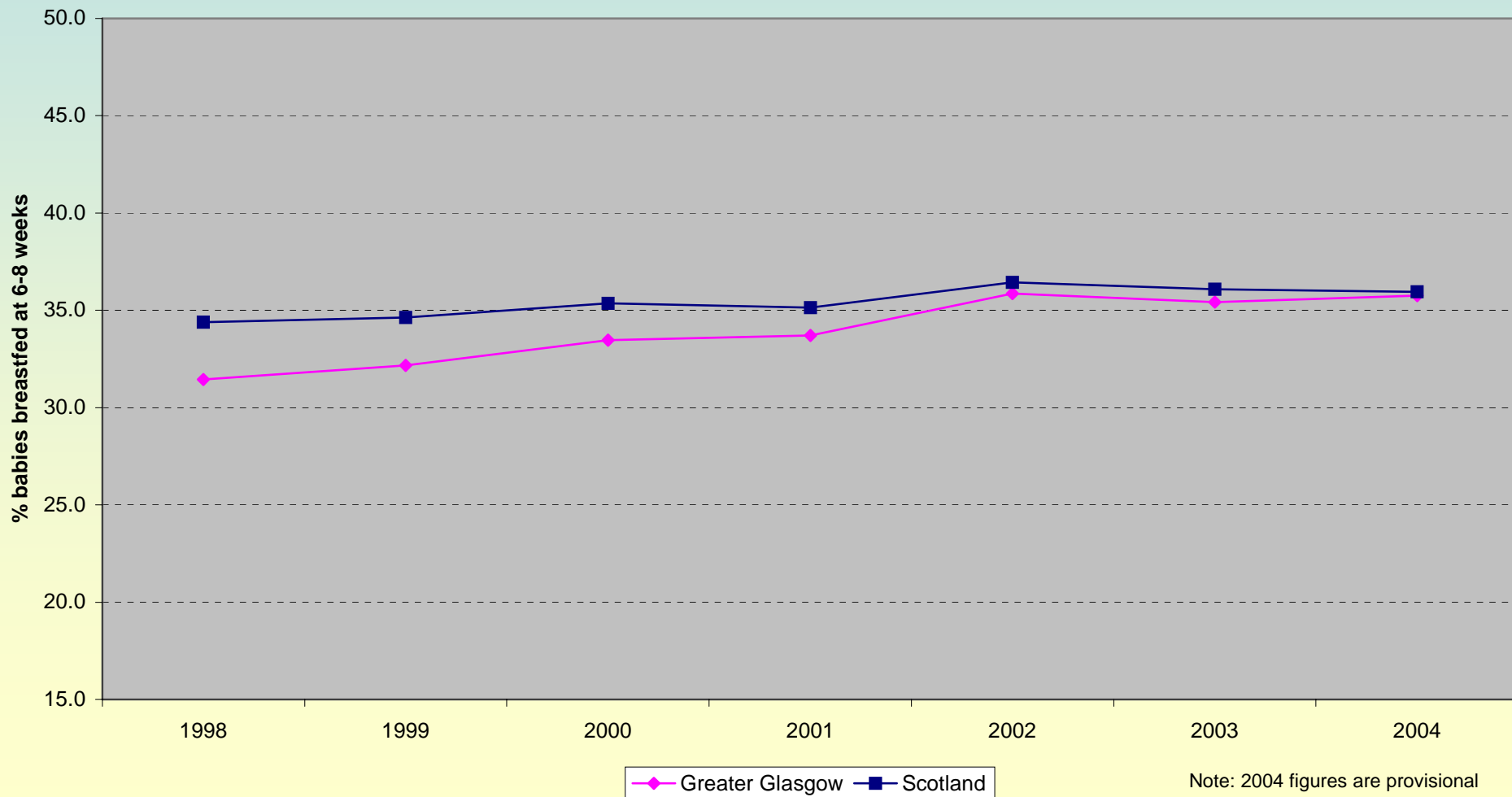
Source: NHS HS - Community Health Profiles, 2004 (from ISD data)



Breastfeeding

Breastfeeding at 6-8 weeks, NHS Greater Glasgow, 1998-2004

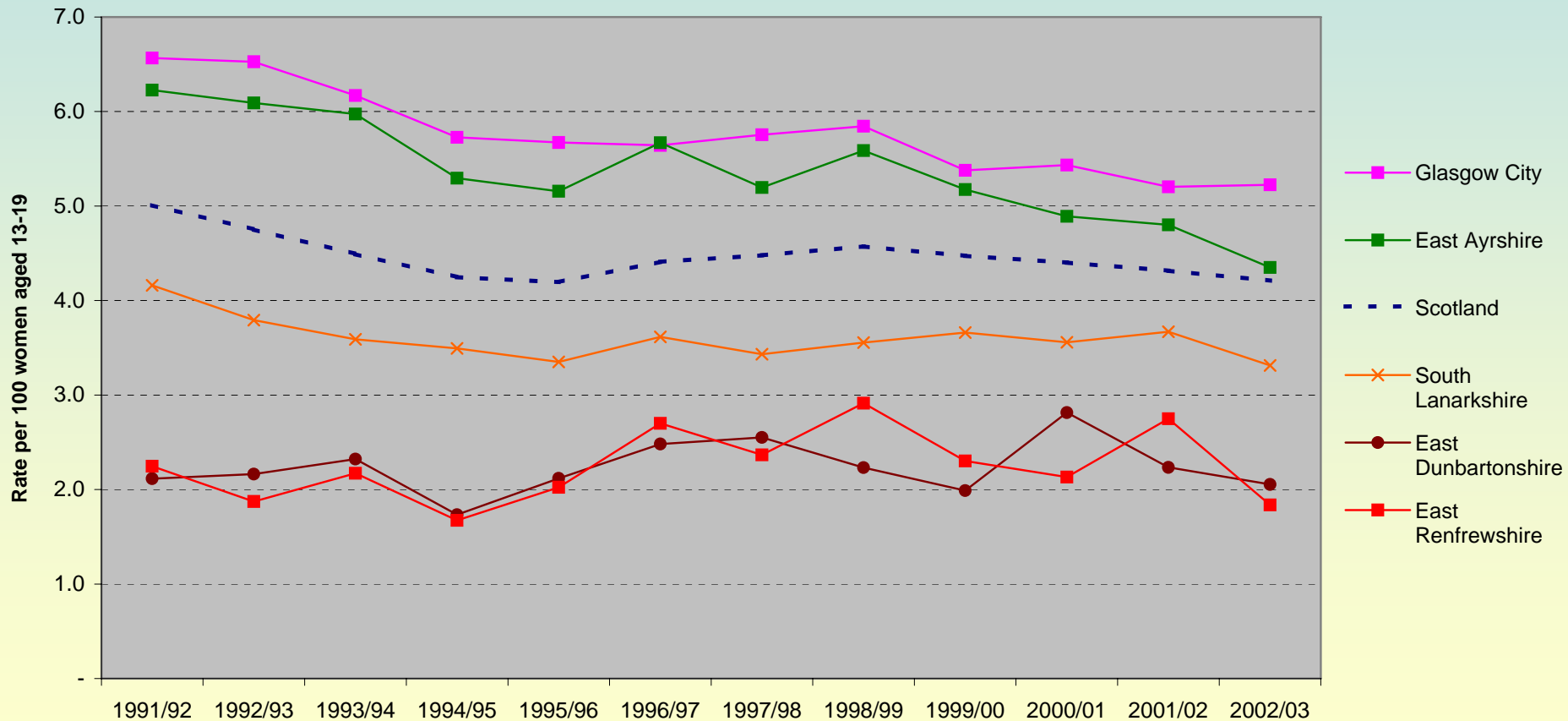
Source: ISD Scotland



Teenage pregnancy

Teenage Pregnancies (13-19) for selected West of Scotland Councils, 1991/92 - 2002/03

Source: ISD Scotland



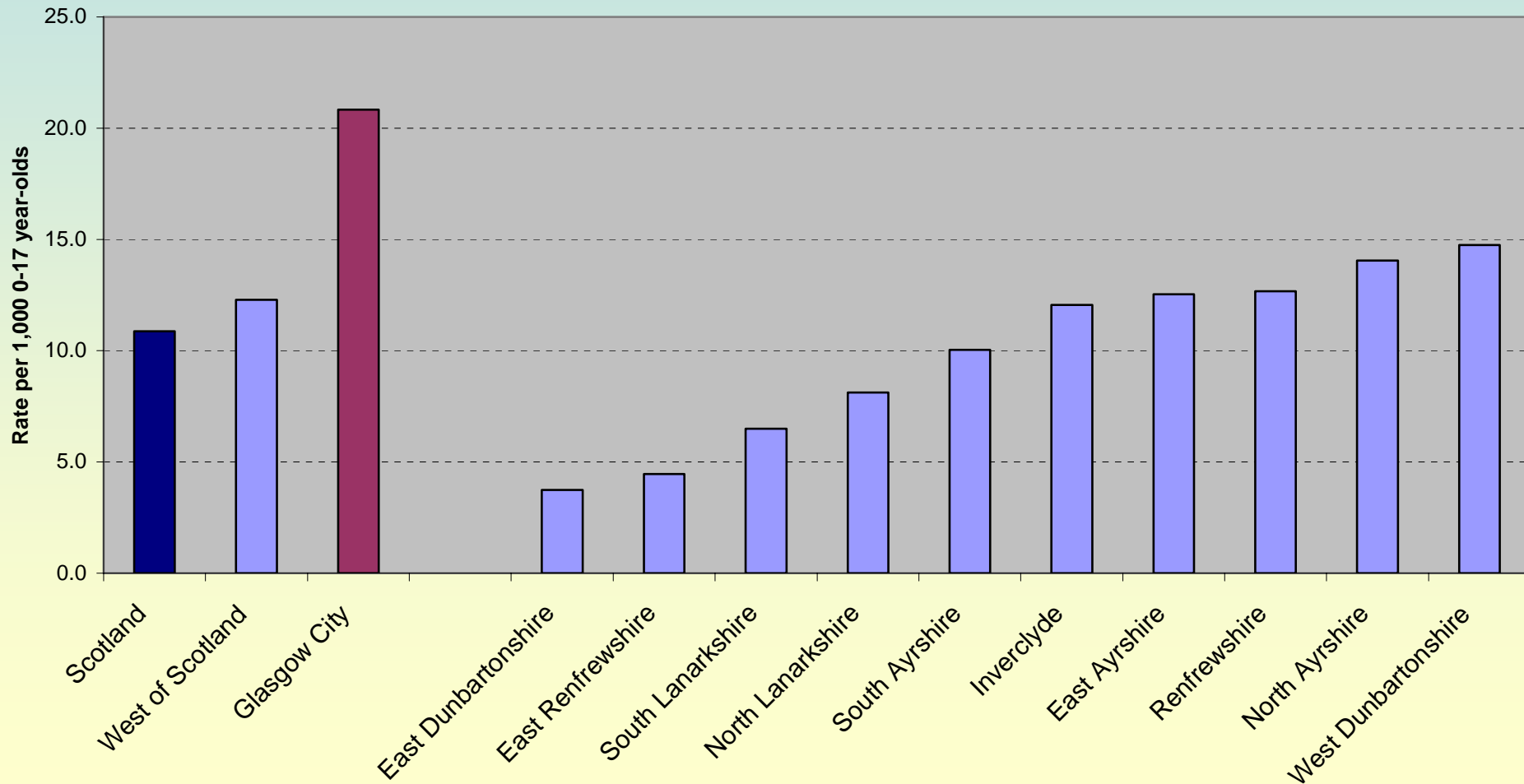
* 2002/03 data are provisional

Children

Looked after Children

Looked after children - rate per 1000 0-17 year-olds, 2004

Source: Care Scotland



Looked after Children

Looked after children - rate per 1000, three year rolling average, 1998 - 2004

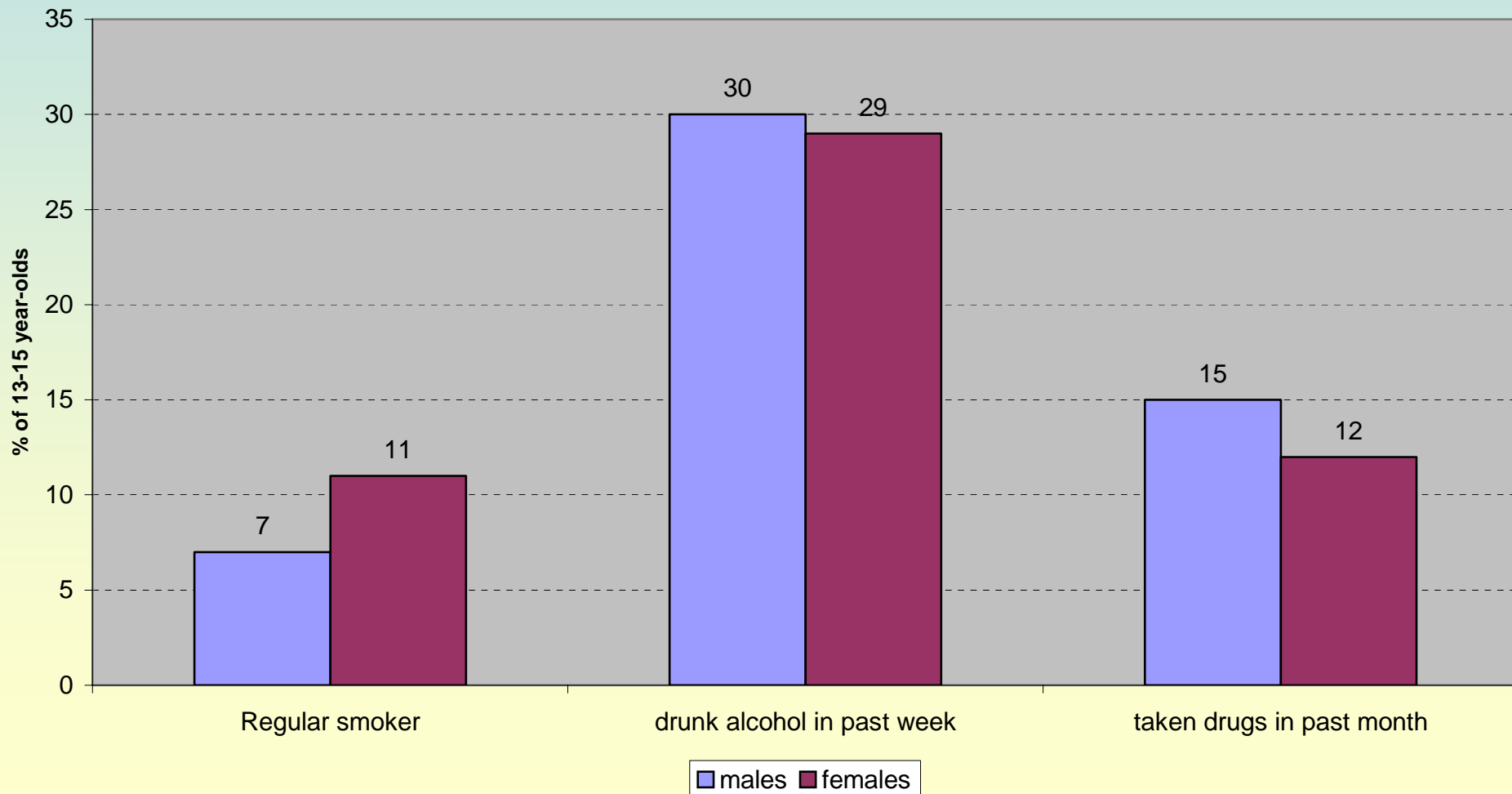
Source: Care Scotland



Smoking, drinking & drug use

Smoking, alcohol & drug use among 13 and 15 year-olds in Greater Glasgow, 2002

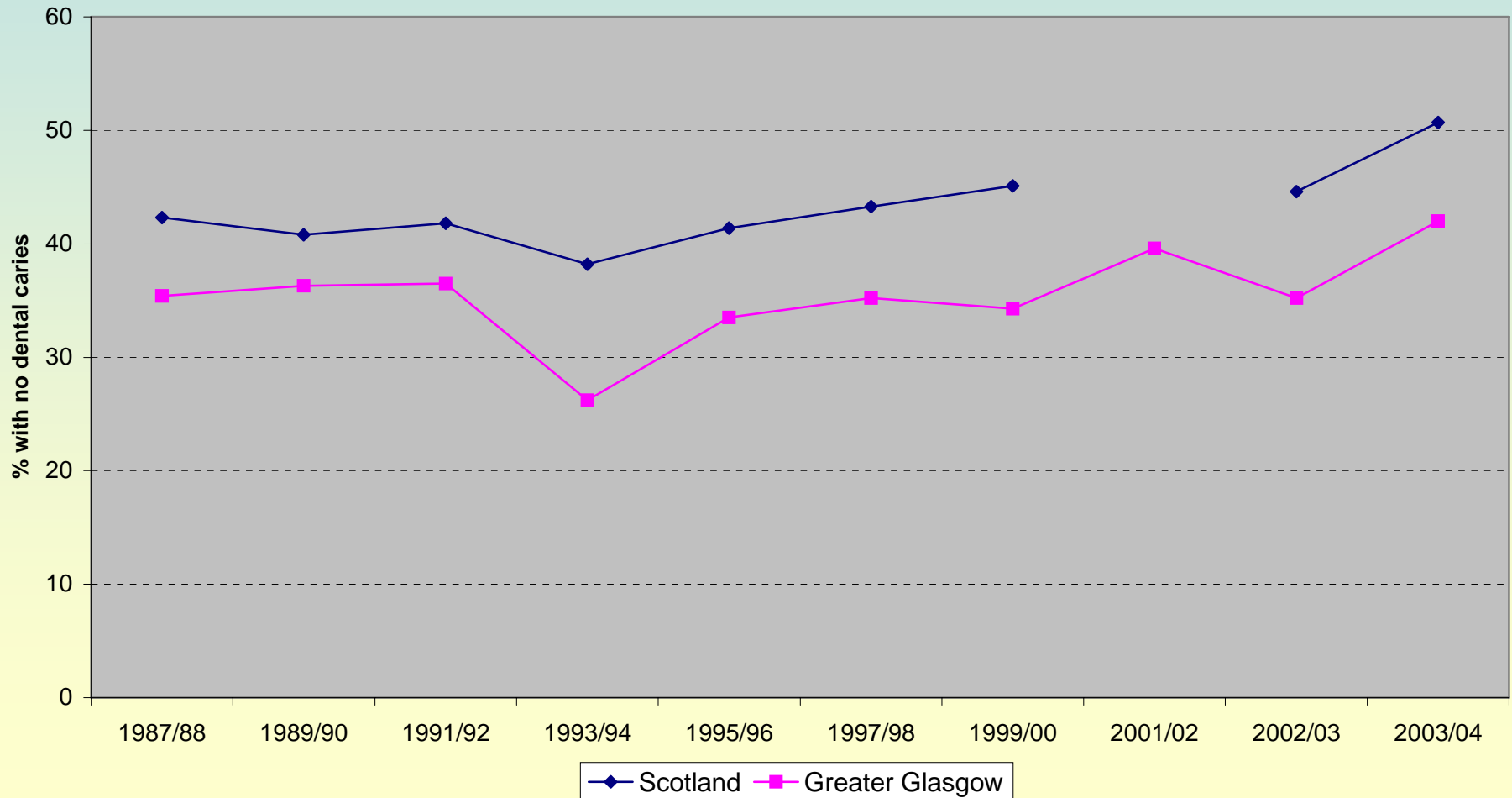
Source: SALSUS



Dental health

Percentage of 5 year-olds with no decayed/missing/filled teeth ('zero caries'),
Scotland & Greater Glasgow 1987/99 - 2003/04

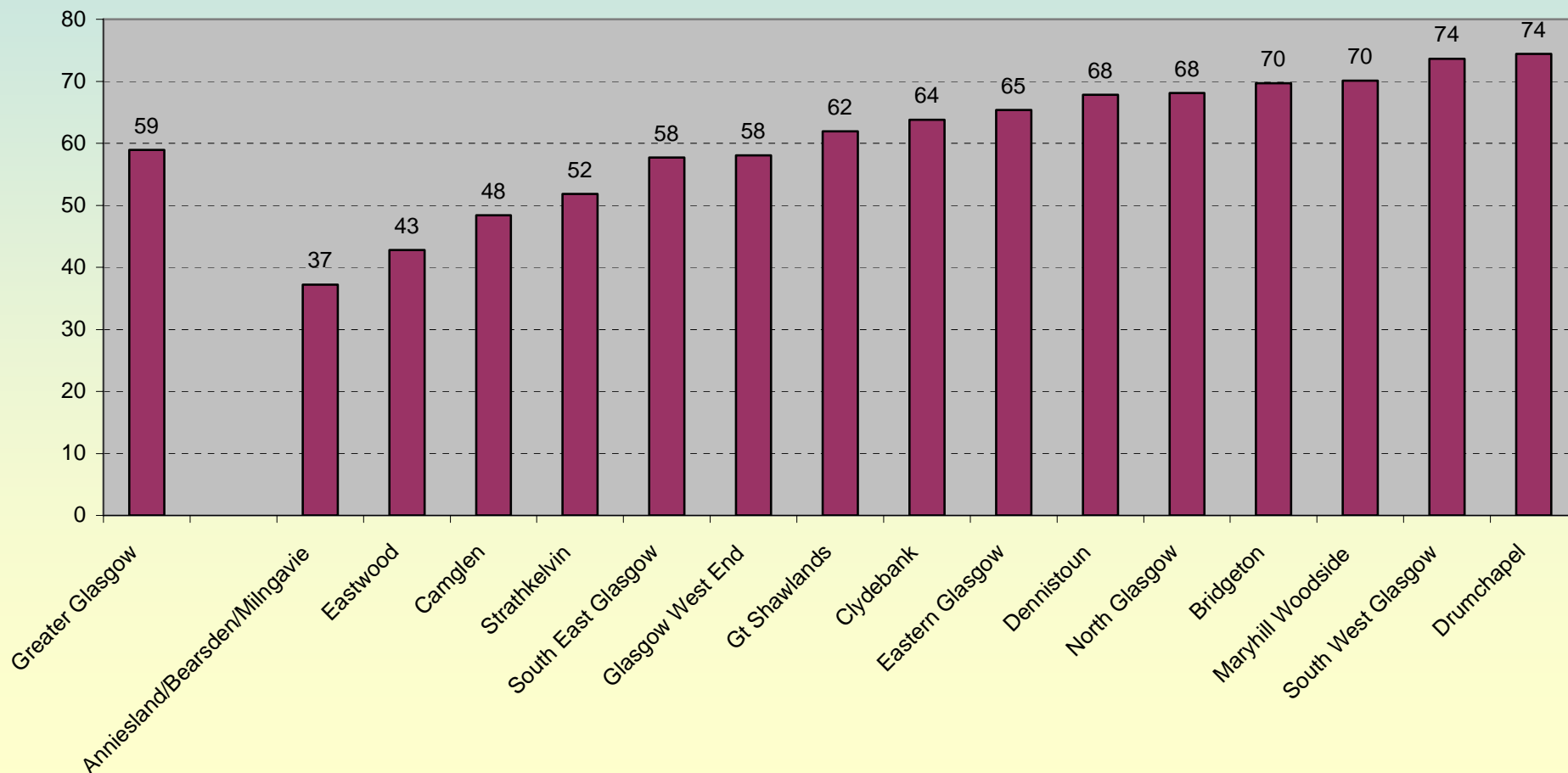
Source: NDIP & SHBDEP



Dental health

**Dental decay: % of 5 year-old children with obvious/advanced decay (risk level 2-3)
by LHCC area, Greater Glasgow 2003-04**

Source: NDIP

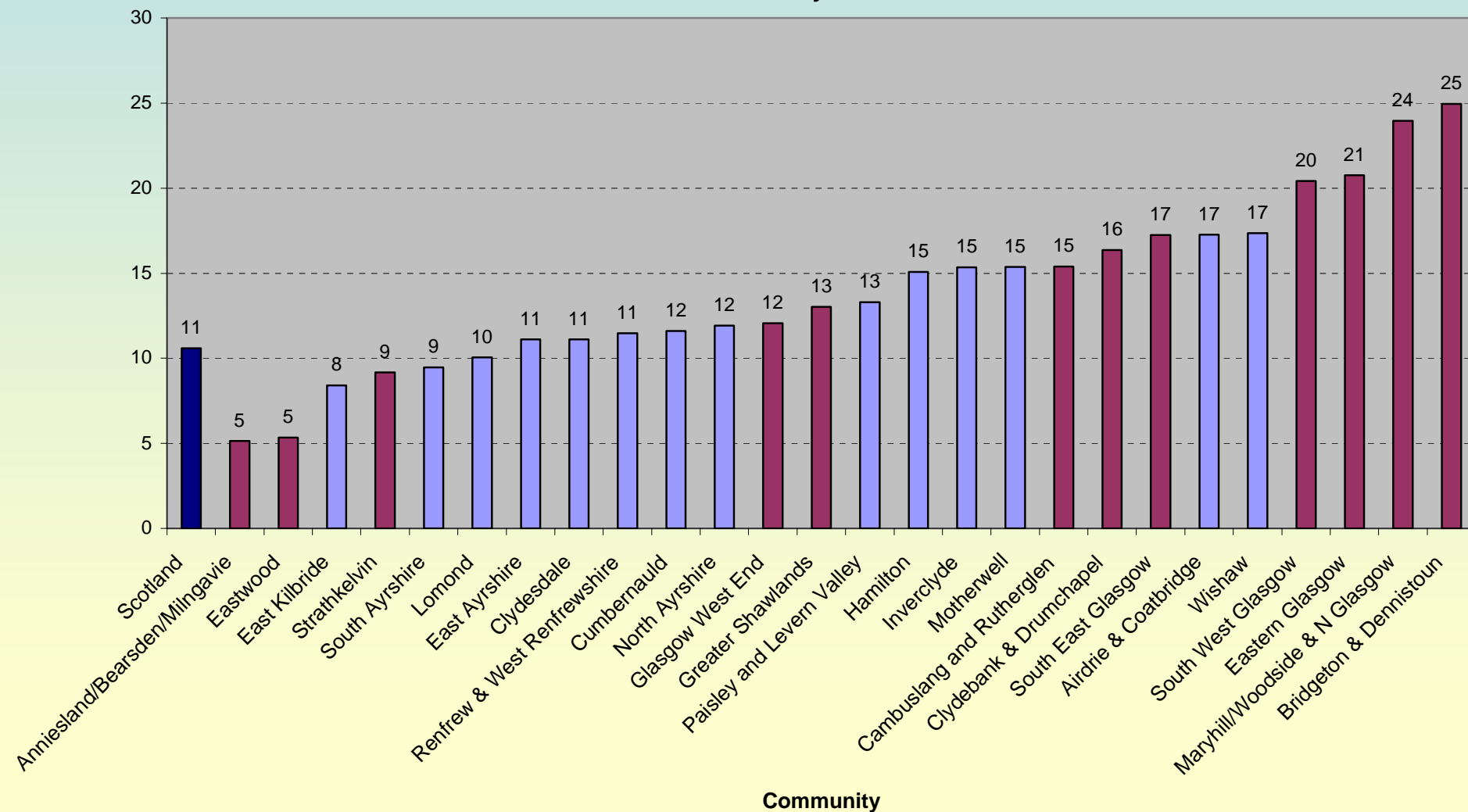


Health & function

Adults unable to work due to illness/disability

**Percentage of adults unable to work due to illness/disability,
Glasgow/West of Scotland communities, 2000**

Source: NHSHS Community Profiles/DWP

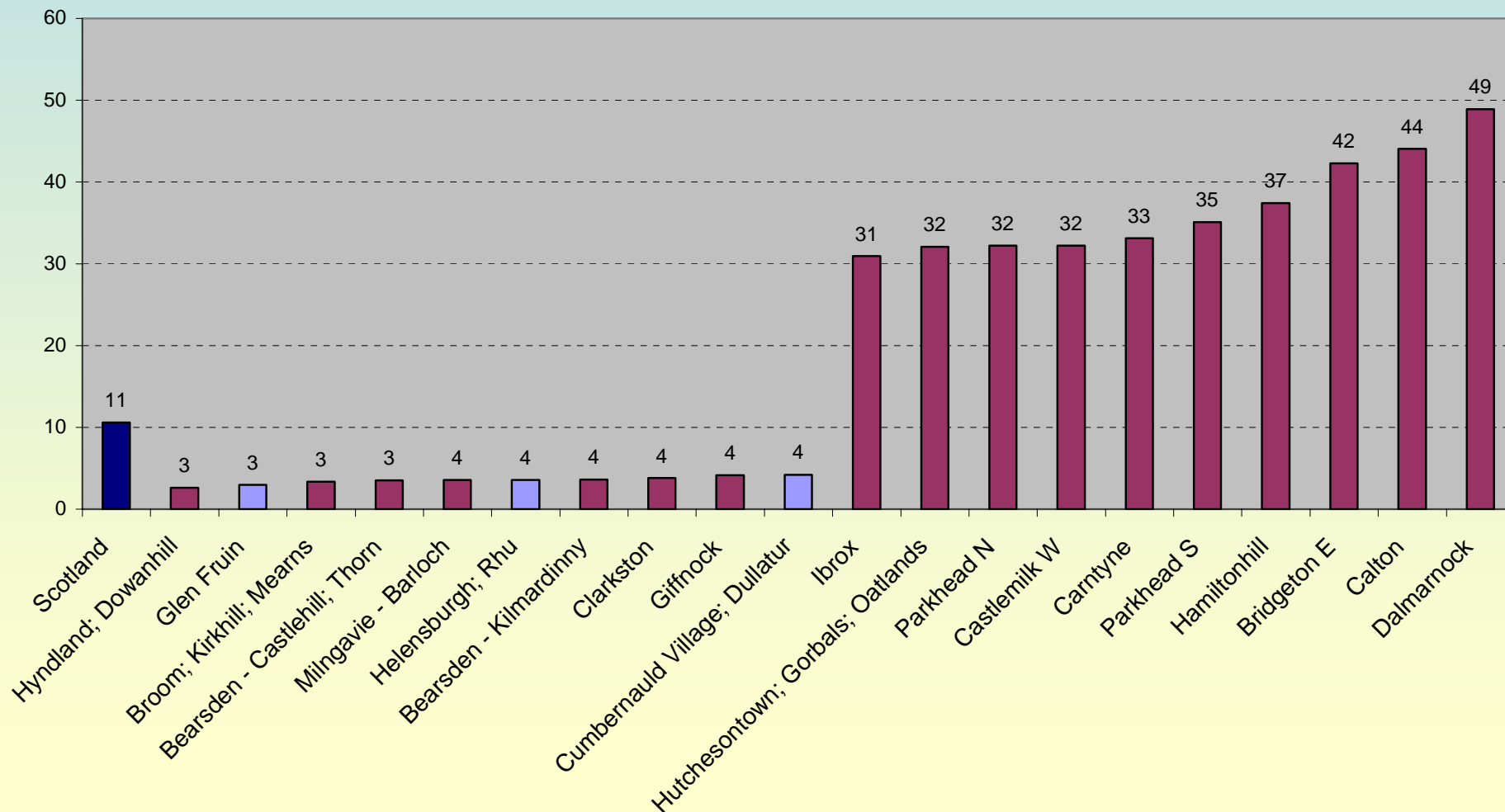


Adults unable to work due to illness/disability

% of adults unable to work due to illness/disability, 2000

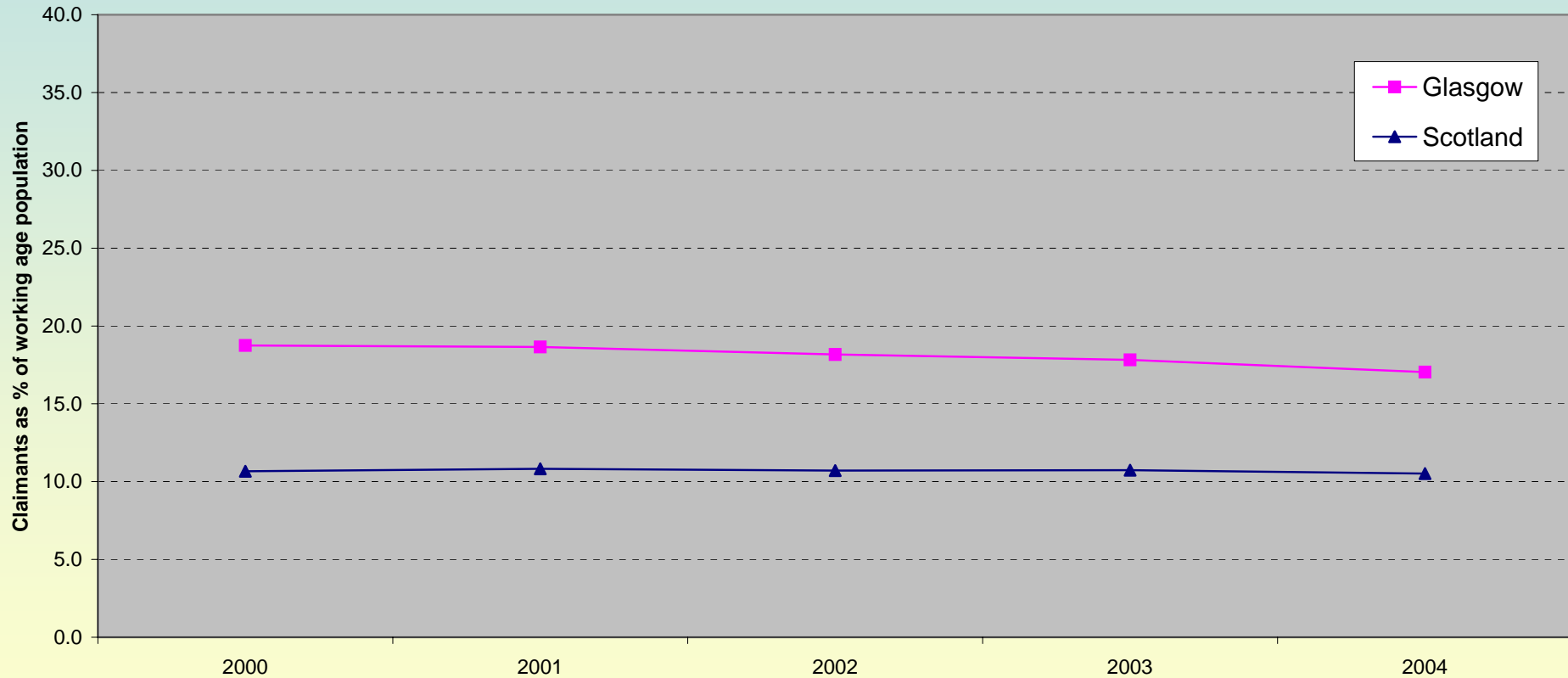
Glasgow & West of Scotland small areas with 10 highest and 10 lowest rates

Source: NHS HS - NHSHS Community Profiles/DWP



Adults unable to work due to illness/disability

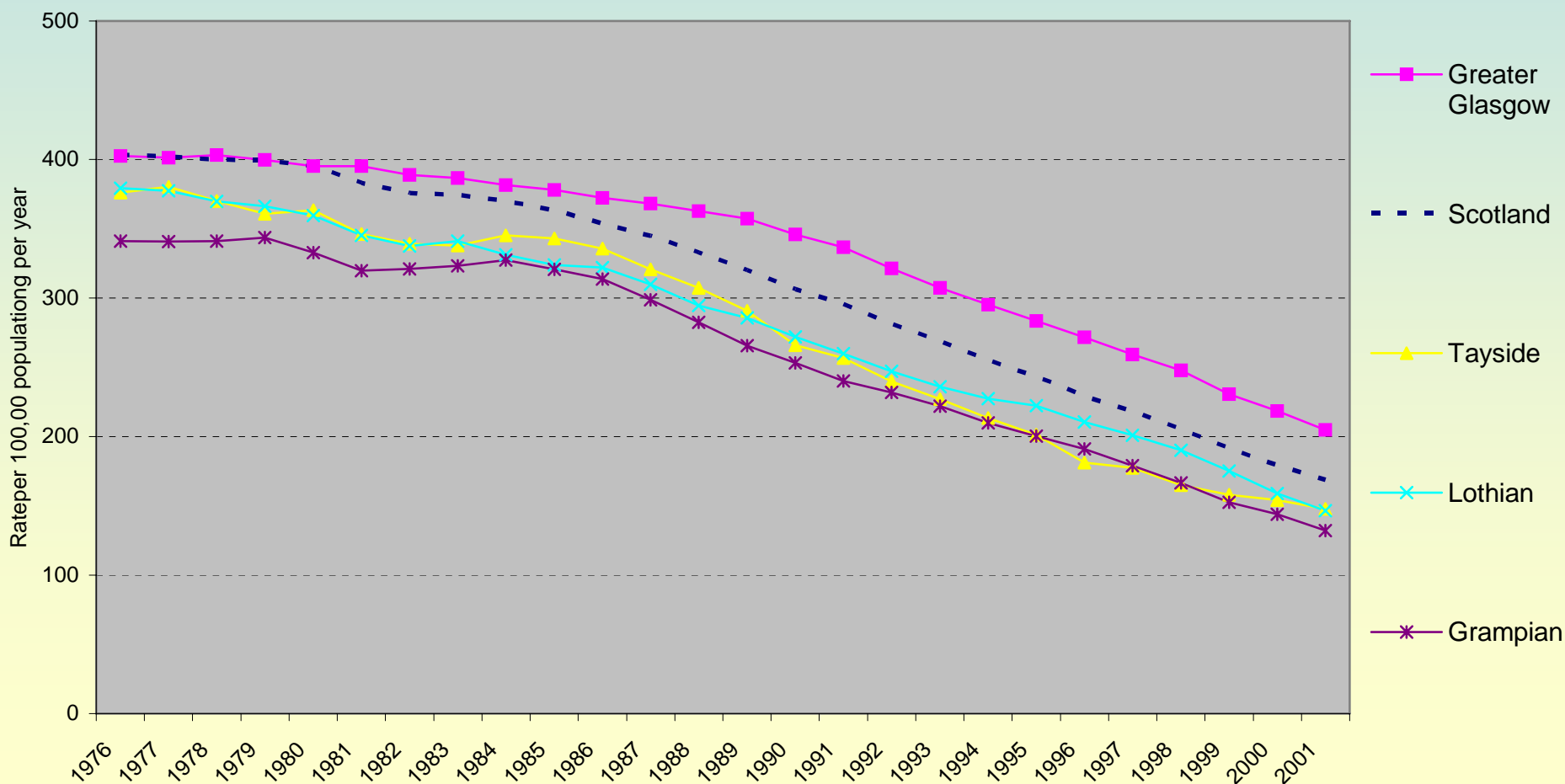
Adults unable to work due to illness/disability
Incapacity benefit/severe disability allowance claimants, 2000-2004
Source: DWP



Illness & disease

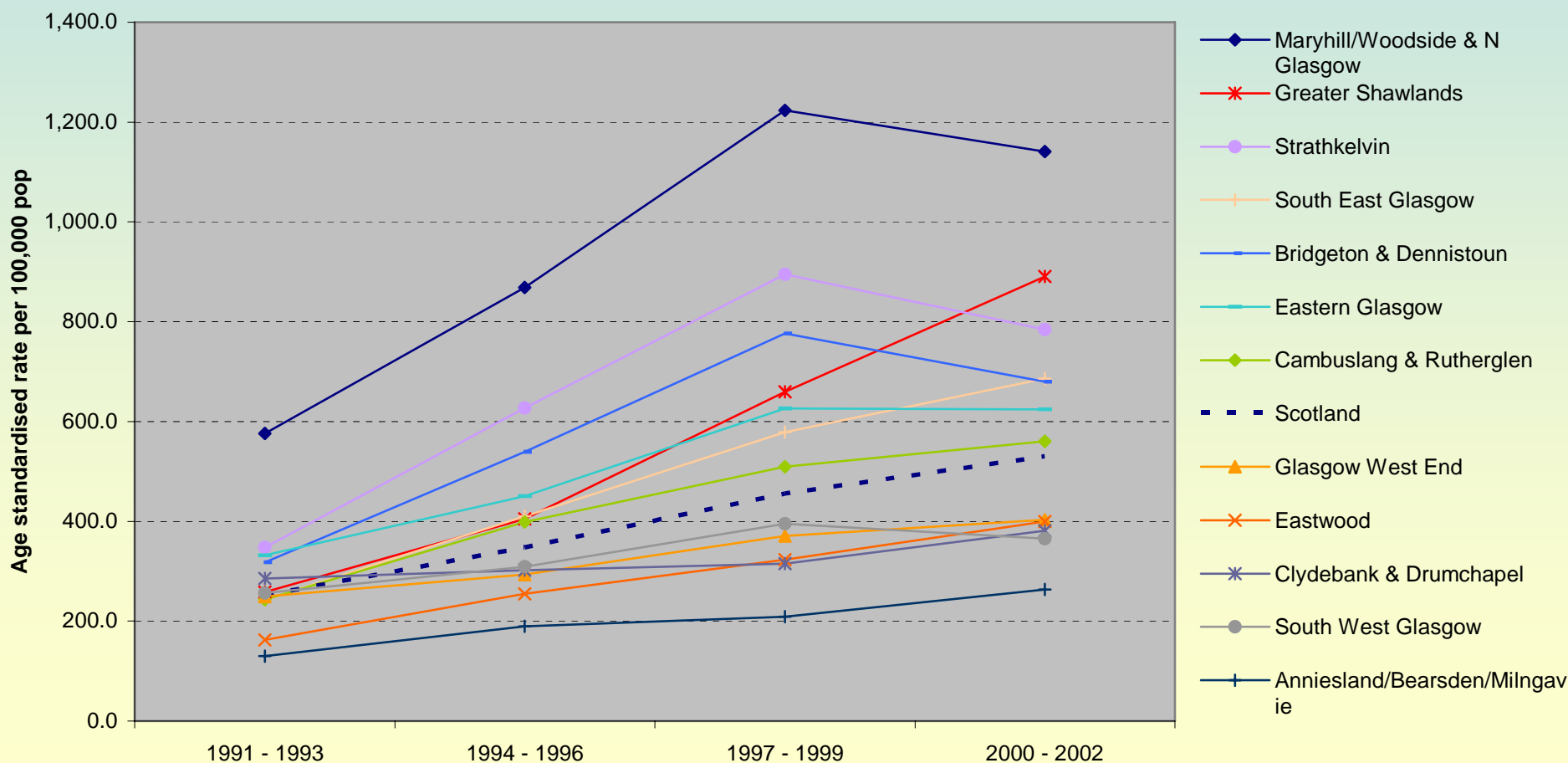
Heart disease mortality

Ischaemic Heart Disease: age standardised death rates, males (15-74)
Scotland and large Health Boards, 1976-2001
Source: GRO(S)



Diabetes

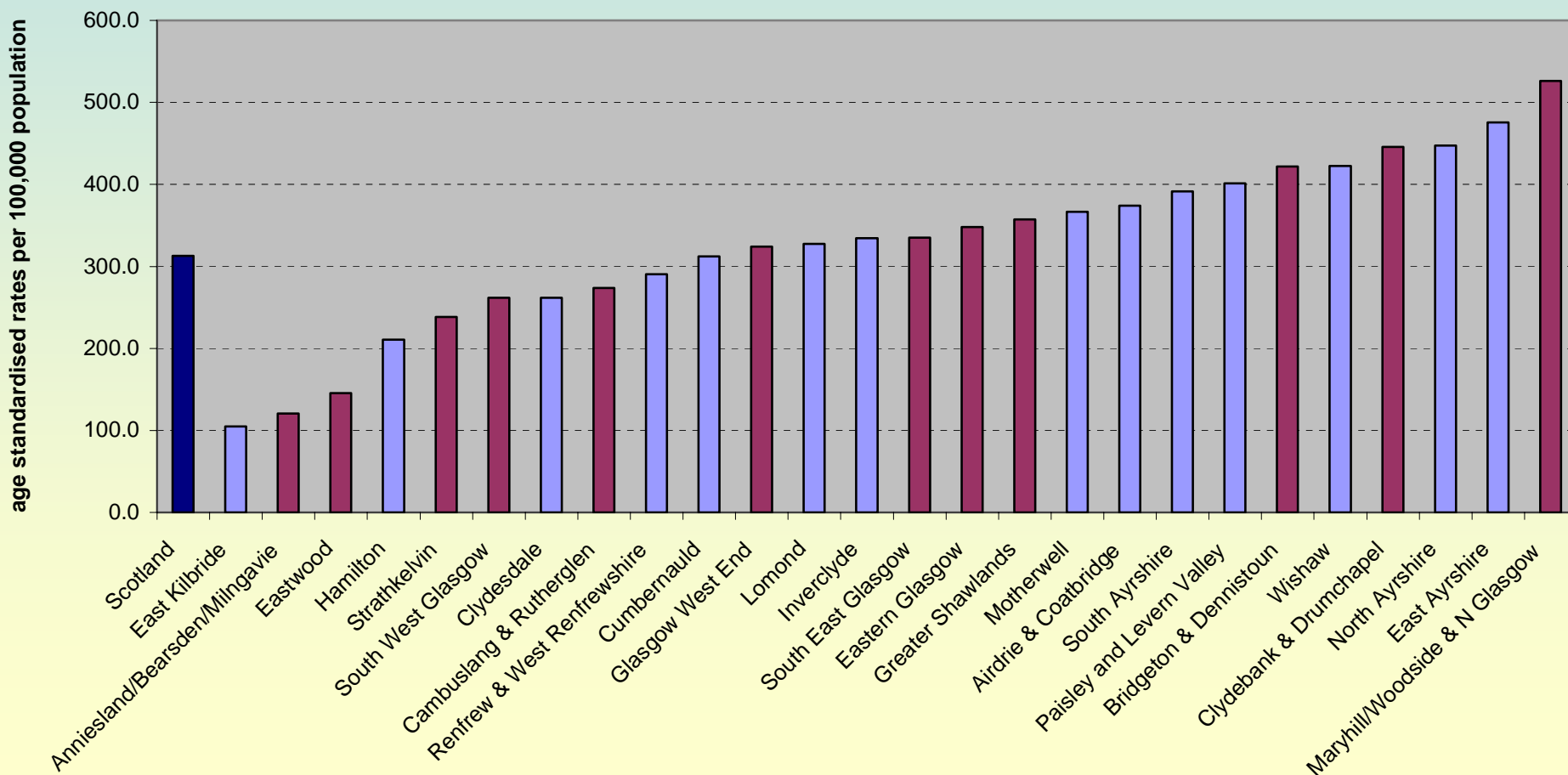
Admissions to hospital for diabetes by Glasgow "community",
age-standardised rates, 1991/93 - 2000/02
Source: ISD Scotland/NHS Health Scotland



Deliberate self harm

Hospital admissions for deliberate self harm, average annual age-standardised rates,
2000-2002, Glasgow & West of Scotland communities

Source: ISD Scotland/NHS SHS Community Profiles



Summary

What's getting better?

- Life expectancy increasing overall
- Downward trends in:
 - smoking
 - unemployment
 - teenage pregnancies
 - some crimes
 - dental health of children
 - breastfeeding
 - some specific causes of death
- Improvements in some aspects of housing
- More entrants to higher education

What's proving resistant to change?

- Some behaviours e.g.
 - dental health of children
 - breastfeeding
- Many features of the circumstances in which people live e.g.
 - Poverty/low income
 - Looked after children
- Levels of disability
 - adults unable to work
 - healthy life expectancy

What's getting worse?

- Alcohol related illness
- Obesity levels
- Sexually transmitted disease
- Traffic levels
- Violent crime
- Inequalities in many health related areas

Glasgow - Past & Present

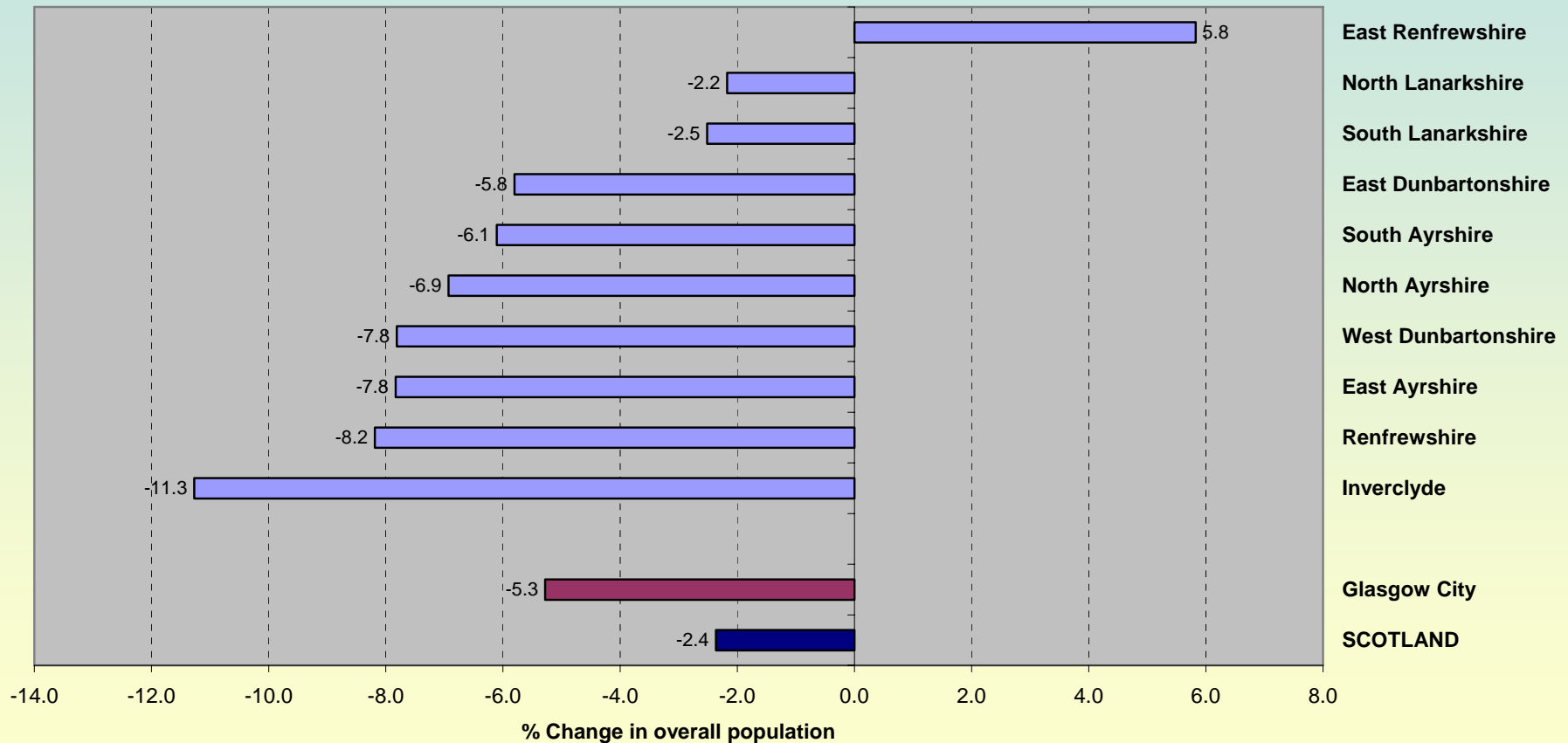
- Big trends James Arnott
- From indicators to insights Anne Scoular
- Integrated public health profile David Walsh
& Bruce Whyte

Glasgow - Future

Population projections

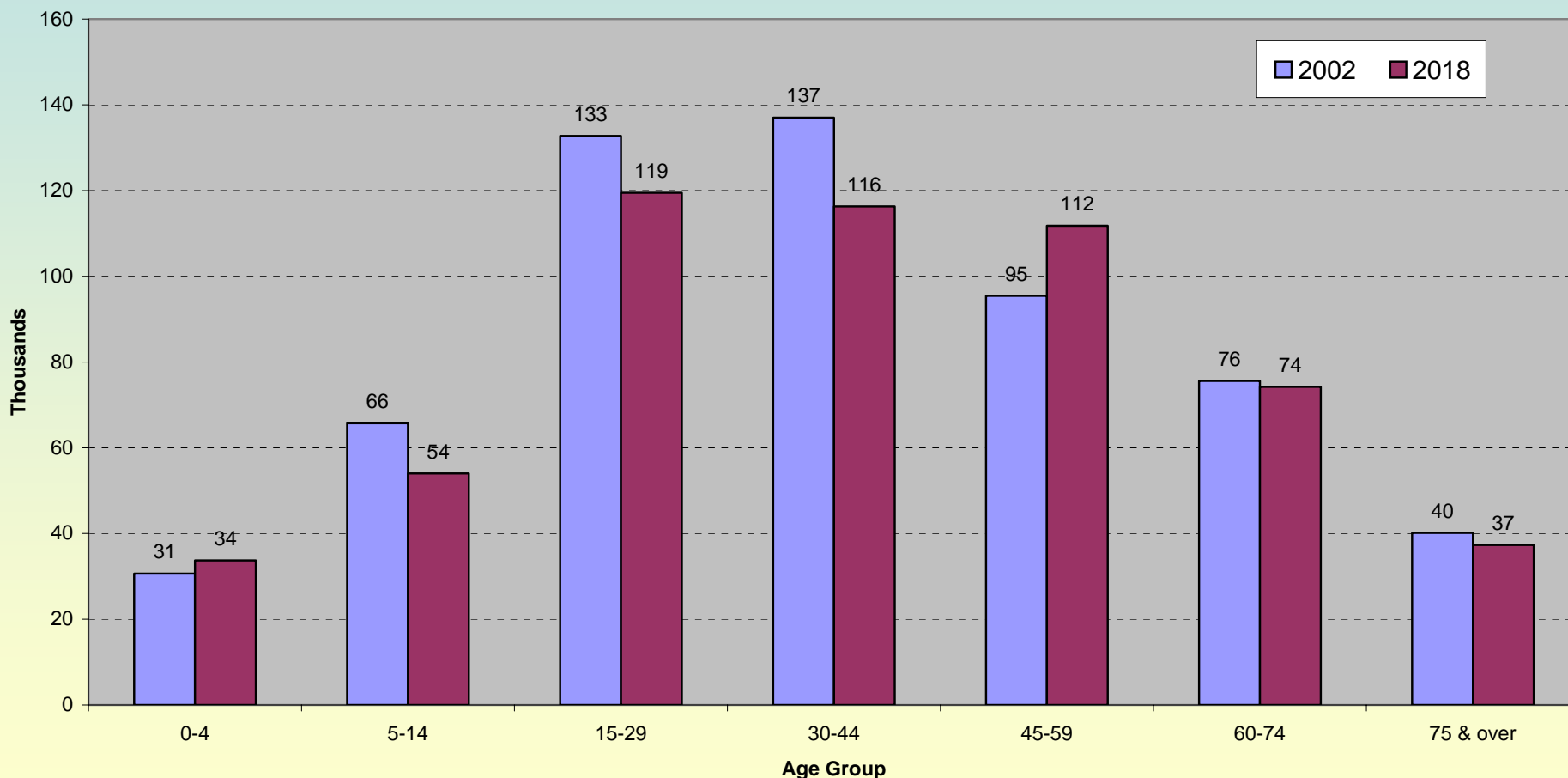
Projected Population Changes in Scotland, 2002- 2018,
Scotland and West of Scotland Local Authorities

Source: GRO(S)



Population projections

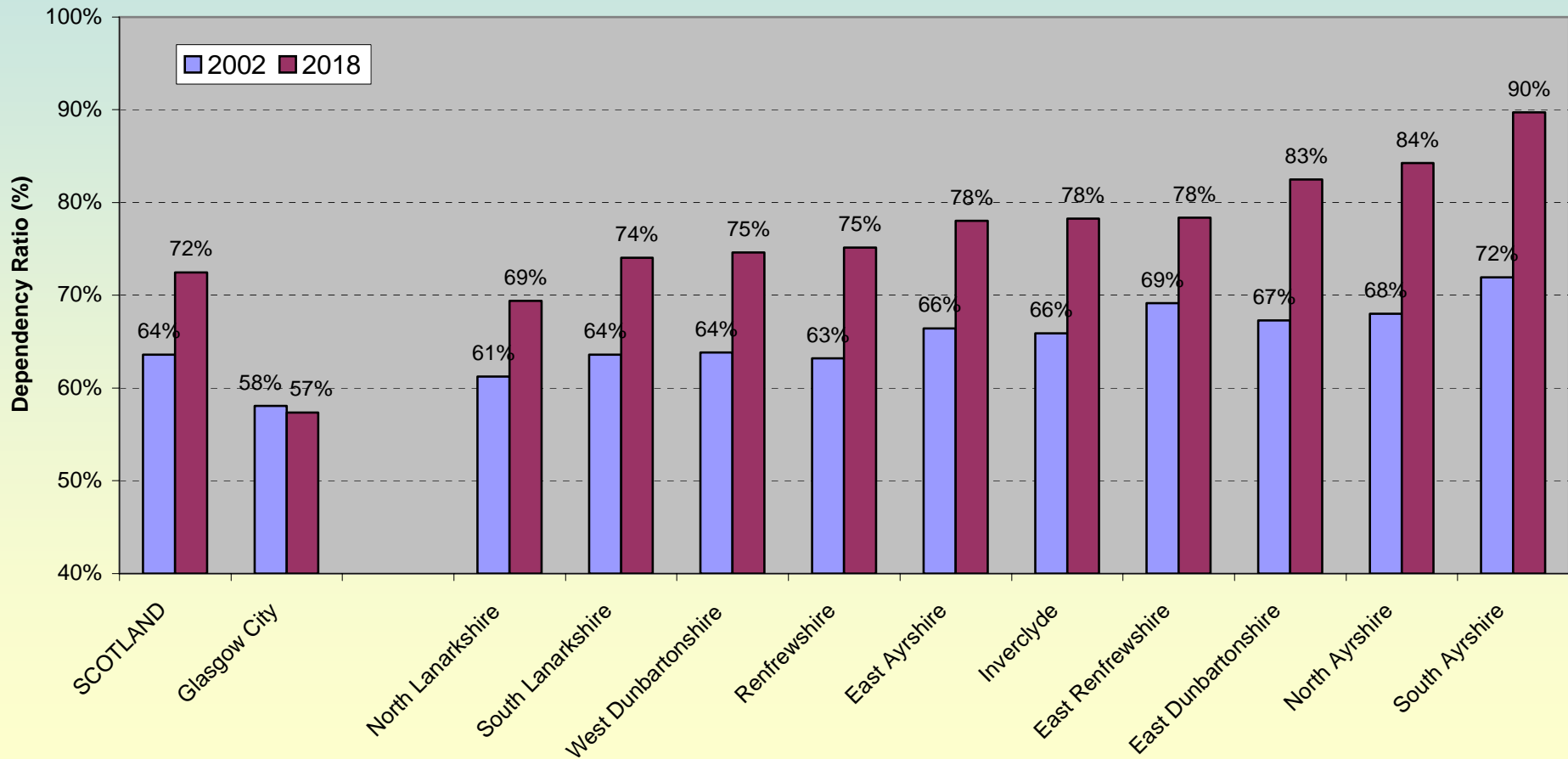
Population Projections for Glasgow, all persons by age band, 2002 vs 2018
(Source: GROS)



Dependency ratios

Dependency Ratio Projections for Scotland and WoS Councils, 2002 and 2018

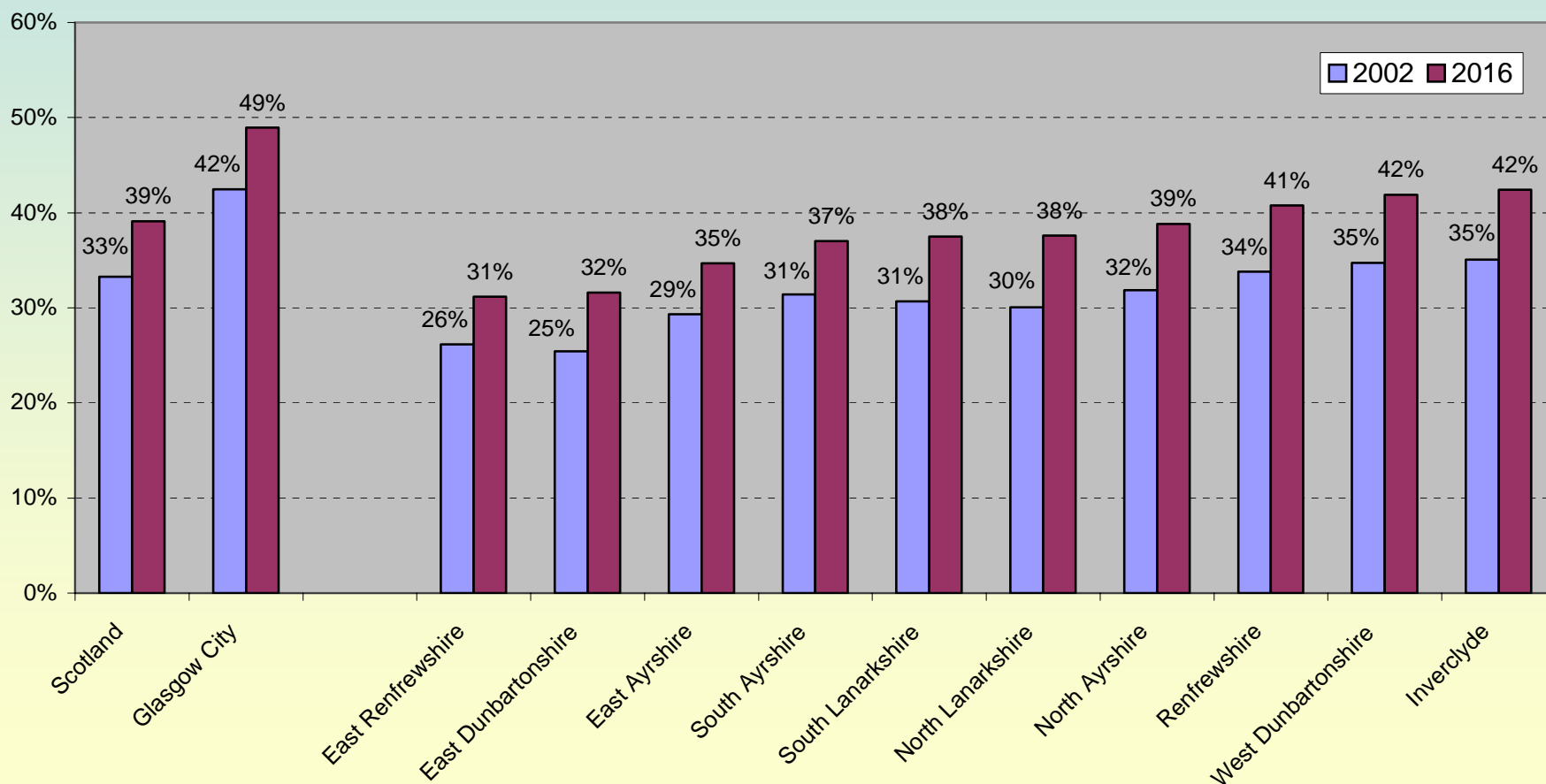
Source: derived from GROS data



Single person households

Projected change in % of single adult households,
West of Scotland Councils, 2002 vs 2016

Source: GRO(S)

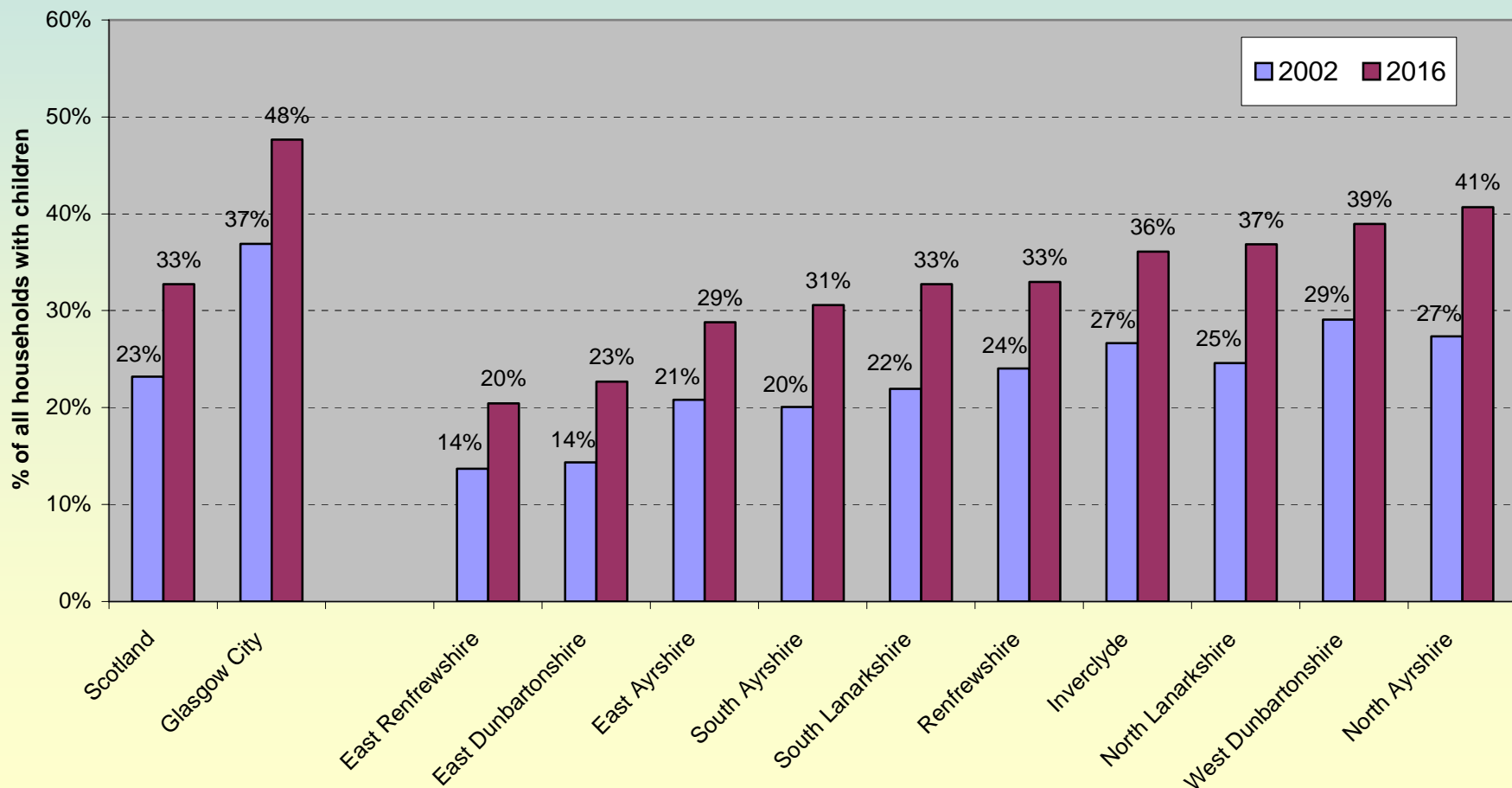


Lone parent households

Projected change in lone parent households

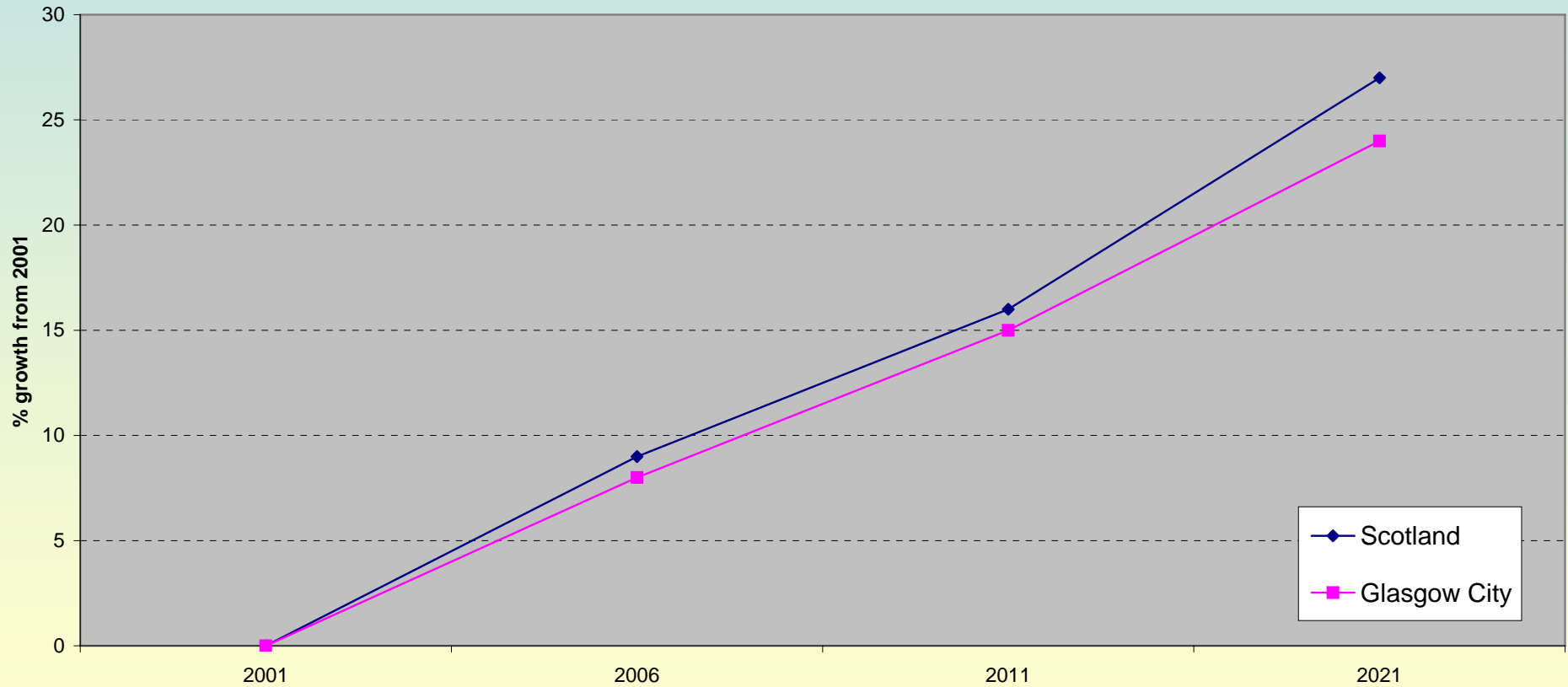
West of Scotland councils, 2002 vs. 2016

Source: Register General Office of Scotland



Traffic Growth

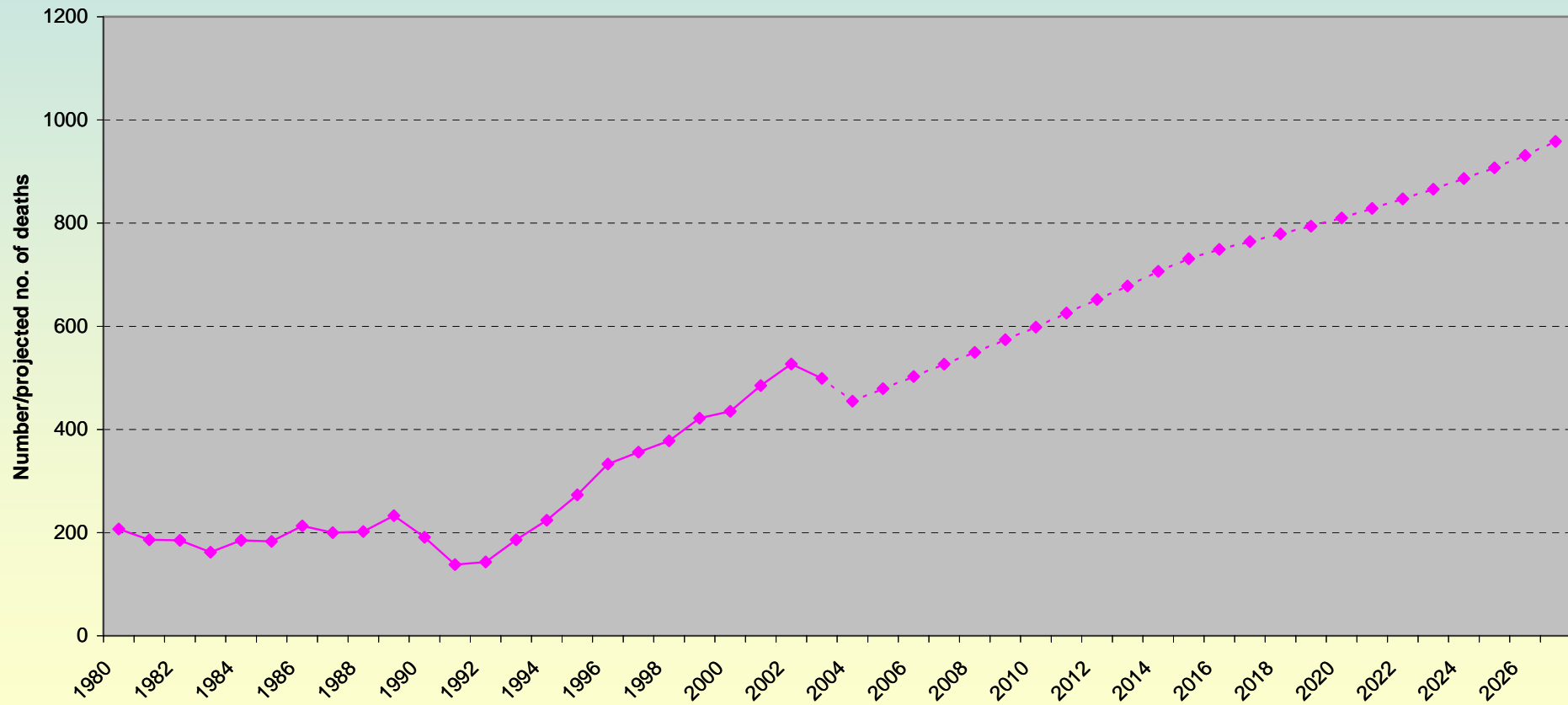
Background traffic growth from 2001, Scotland & Glasgow*
Source: Scottish Executive



* all traffic originating from Glasgow City

Alcohol

**Alcohol related mortality, Greater Glasgow:
deaths 1980-2003 and projections 2004-2027**
Source: GRO(S)/NHSHS



Life expectancy

Male Life Expectancy at Birth (years); West of Scotland Council Areas vs Scotland;

Trend: 1991-1993 to 2001-2003; Projections: 2002-2004 to 2011-2013

Source: Office for National Statistics & Health Scotland

