

# STV FOR WESTMINSTER

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## Introduction

This paper presents a schedule for electing the UK Parliament by Single Transferable Vote from multi-member constituencies.

The constituencies, mostly electing 4 or 5 MPs, are based on local authority areas. The rules used to define constituencies are given in the next section, followed by a schedule of the 118 resulting constituencies, electing 512 MPs. A map of the constituencies is on the cover.

Some outline statistics, including a comparison of variability in the number of electors per MP with that under the present system, are given in an appendix.

#### Rules

The proposed scheme is derived using the following rules:

- 1. Constituencies preferably elect either 4 or 5 MPs; where the other rules make this difficult, either 3 or 6 is allowed.
- 2. Constituencies are assigned one MP for every 100,000 electors or part thereof; thus a constituency with between 400,001 and 500,000 electors is assigned 5 MPs.
- 3. Constituencies are based on Local Authority areas. No unitary or district Local Authorities are split<sup>1</sup>. Ceremonial counties in England, preserved counties in Wales, and metropolitan authorities in England are sub-divided only if their entitlement exceeds 6 MPs, in all cases respecting district and unitary authority boundaries within them<sup>2</sup>.
- 4. Exceptions to Rules 1 and 2: in line with current practice, some allowance is made for sparsely-populated and isolated areas. Smaller numbers of MPs (generally 2 or 3, but in exceptional cases<sup>3</sup> just 1) are allowed in sparsely populated areas; and the ceiling on the number of electors per MP is reduced to 90,000 for areas where the population density is less than 150/sq km, and 80,000 where it is less than 30/sq km.

<sup>&</sup>lt;sup>1</sup>With one exception, Birmingham, which is subdivided because its entitlement exceeds 6 MPs.

<sup>&</sup>lt;sup>2</sup>The one case, Stockton-on-Tees, where a district is split between two ceremonial counties has been dealt with by using the Tees Valley area as a constituency

<sup>&</sup>lt;sup>3</sup>The Western Isles, Northern Isles, and Argyll and Bute.

### SCHEDULE OF CONSTITUENCIES

*Note*: (\*) and (\*\*) indicate constituencies with low or very low population density for which the ceiling on electors/MP is reduced to 90,000 and 80,000 respectively (see Rule 4).

1 Teesside (electors/MP 98914) electorate 494571, seats 5 LAs: Darlington, Hartlepool, Middlesbrough, Redcar and Cleveland, Stockton-on-Tees 2 Durham (electors/MP 98401) electorate 393603, seats 4 LAs: Durham 3 Northumberland (electors/MP 82019 ) (\*) electorate 246058, seats 3 LAs: Northumberland (electors/MP 86124) 4 North Tyne electorate 344494, seats 4 LAs: Newcastle upon Tyne, North Tyneside 5 South Tyne electorate 475132, seats 5 (electors/MP 95026) LAs: Gateshead, South Tyneside, Sunderland 6 N Lancashire (electors/MP 84094) electorate 336374, seats 4 LAs: Lancaster, Preston, Ribble Valley, Wyre 7 SW Lancashire electorate 422075, seats 5 (electors/MP 84415) LAs: Blackpool, Chorley, Fylde, South Ribble, West Lancashire 8 SE Lancashire electorate 345318, (electors/MP 86330) seats 4 LAs: Blackburn with Darwen, Burnley, Hyndburn, Pendle, Rossendale 9 Cumbria electorate 390857, (electors/MP 78171 ) (\*) seats 5 LAs: Cumbria 10 Bury, Rochdale & Oldham (electors/MP 91286) electorate 456430, seats 5 LAs: Bury, Oldham, Rochdale 11 Stockport & Tameside (electors/MP 95456) electorate 381825, seats 4 LAs: Stockport, Tameside 12 Manchester electorate 329879, (electors/MP 82470) seats 4 LAs: Manchester 13 Salford & Trafford (electors/MP 82434) electorate 329737, seats 4 LAs: Salford, Trafford 14 Wigan & Bolton electorate 435763, seats 5 (electors/MP 87153) LAs: Bolton, Wigan

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15 Sefton, Knowsley & St Helens
                                                                 (electors/MP 91299)
                                  electorate 456494,
                                                       seats 5
LAs: Knowsley, St Helens, Sefton
16 Liverpool & Wirral
                                  electorate 559862,
                                                       seats 6
                                                                 (electors/MP 93310)
LAs: Liverpool, Wirral
17 W Cheshire & Halton
                                                                 (electors/MP 85261)
                                  electorate 341044,
                                                        seats 4
LAs: Halton, Cheshire West and Chester
18 E Cheshire & Warrington
                                  electorate 437280,
                                                                 (electors/MP 87456)
                                                        seats 5
LAs: Warrington, Cheshire East
19 NE Yorkshire
                                                                 (electors/MP 77478) (*)
                                  electorate 232435,
                                                        seats 3
LAs: Hambleton, Richmondshire, Ryedale, Scarborough
20 York & NW Yorkshire
                                                                 (electors/MP 74228 ) (*)
                                  electorate 371139,
                                                        seats 5
LAs: Craven, Harrogate, York, Selby
21 Hull & East Riding
                                  electorate 444248,
                                                        seats 5
                                                                 (electors/MP 88850)
LAs: East Riding of Yorkshire, Kingston upon Hull
22 N & NE Lincolnshire
                                                                 (electors/MP 80141)
                                  electorate 240422,
                                                        seats 3
LAs: North East Lincolnshire, North Lincolnshire
23 Bradford
                                  electorate 328197,
                                                                 (electors/MP 82049)
                                                       seats 4
LAs: Bradford
24 Leeds
                                                                 (electors/MP 89465)
                                  electorate 536788,
                                                       seats 6
LAs: Leeds
25 Calderdale & Kirklees
                                  electorate 443581,
                                                       seats 5
                                                                 (electors/MP 88716)
LAs: Calderdale, Kirklees
26 Wakefield
                                  electorate 249948,
                                                                 (electors/MP 83316)
                                                        seats 3
LAs: Wakefield
27 Barnsley & Doncaster
                                                                 (electors/MP 97413)
                                  electorate 389653,
                                                        seats 4
LAs: Barnsley, Doncaster
28 Sheffield & Rotherham
                                                                 (electors/MP 92533)
                                  electorate 555197,
                                                       seats 6
LAs: Sheffield, Rotherham
29 N Derbyshire
                                  electorate 440444,
                                                                 (electors/MP 88089)
                                                       seats 5
LAs: Amber Valley, Bolsover, Chesterfield, Derbyshire Dales, High Peak,
     North East Derbyshire
30 S Derbyshire
                                  electorate 326364,
                                                       seats 4
                                                                 (electors/MP 81591)
LAs: Derby, Erewash, South Derbyshire
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31 N Nottinghamshire
                                  electorate 337513,
                                                       seats 4
                                                                 (electors/MP 84378)
LAs: Ashfield, Bassetlaw, Mansfield, Newark and Sherwood
32 S Nottinghamshire
                                  electorate 437059,
                                                                 (electors/MP 87412)
                                                       seats 5
LAs: Nottingham, Broxtowe, Gedling, Rushcliffe
                                                                 (electors/MP 88689) (*)
33 Lincolnshire
                                  electorate 532134,
                                                       seats 6
LAs: Lincolnshire
34 W Leicestershire
                                  electorate 354825,
                                                       seats 4
                                                                 (electors/MP 88706)
LAs: Blaby, Charnwood, Hinckley and Bosworth, North West Leicestershire
35 E Leicestershire & Rutland
                                                                 (electors/MP 97505)
                                  electorate 390021,
                                                       seats 4
LAs: Leicester, Rutland, Harborough, Melton, Oadby and Wigston
                                                                 (electors/MP 99639)
36 Northamptonshire
                                  electorate 498197,
                                                       seats 5
LAs: Northamptonshire
37 N Staffordshire
                                  electorate 360537,
                                                       seats 4
                                                                 (electors/MP 90134)
LAs: Stoke-on-Trent, Newcastle-under-Lyme, Staffordshire Moorlands
38 S Staffordshire
                                  electorate 474734,
                                                       seats 5
                                                                 (electors/MP 94947)
LAs: Cannock Chase, East Staffordshire, Lichfield, South Staffordshire, Stafford, Tamworth
39 Shropshire
                                  electorate 348563,
                                                       seats 4
                                                                 (electors/MP 87141)
LAs: Telford and Wrekin, Shropshire
40 Herefordshire
                                                                 (electors/MP 67999) (*)
                                  electorate 135998,
                                                       seats 2
LAs: Herefordshire
41 Worcestershire
                                  electorate 432784,
                                                                 (electors/MP 86557)
                                                       seats 5
LAs: Worcestershire
42 Wolverhampton & Walsall
                                                       seats 4
                                                                 (electors/MP 89686)
                                  electorate 358743,
LAs: Walsall, Wolverhampton
43 Dudley & Sandwell
                                  electorate 458263,
                                                       seats 5
                                                                 (electors/MP 91653)
LAs: Dudley, Sandwell
44 Birmingham N
                                                                 (electors/MP 89282)
                                  electorate 357129,
                                                       seats 4
LAs: The 20 Council wards comprising the present (following the 2007 Review)
     constituencies of Birmingham Erdington, Birmingham Hodge Hill, Birmingham
     Ladywood, Birmingham Perry Barr and Sutton Coldfield
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electorate 360826,

LAs: The 20 Council wards comprising Birmingham Edgbaston, Birmingham Hall Green, Birmingham Northfield, Birmingham Selly Oak and Birmingham Yardley

seats 4

(electors/MP 90206)

45 Birmingham S

46 Coventry & Solihull electorate 371095, seats 4 (electors/MP 92774)LAs: Coventry, Solihull 47 Warwickshire (electors/MP 80594) electorate 402971, seats 5 LAs: Warwickshire 48 Cambridge & Peterborough (electors/MP 91862) electorate 551172, seats 6 LAs: Peterborough, Cambridgeshire 49 W Norfolk electorate 288792, seats 3 (electors/MP 96264) LAs: Breckland, King's Lynn and West Norfolk, North Norfolk 50 E Norfolk (electors/MP 88907) electorate 355629, seats 4 LAs: Broadland, Great Yarmouth, Norwich, South Norfolk 51 Suffolk (electors/MP 89195) electorate 535170, seats 6 LAs: Suffolk 52 NW Essex electorate 443807, seats 5 (electors/MP 88761) LAs: Braintree, Chelmsford, Epping Forest, Harlow, Uttlesford 53 E Essex electorate 468976, (electors/MP 93795)seats 5 LAs: Southend-on-Sea, Colchester, Maldon, Rochford, Tendring 54 S Essex electorate 357984, (electors/MP 89496) seats 4 LAs: Thurrock, Basildon, Brentwood, Castle Point 55 E Hertfordshire electorate 322151, (electors/MP 80538) seats 4 LAs: Broxbourne, East Hertfordshire, North Hertfordshire, Stevenage 56 W Hertfordshire electorate 478690, (electors/MP 95738) seats 5 LAs: Dacorum, Hertsmere, St Albans, Three Rivers, Watford, Welwyn Hatfield 57 Bedfordshire (electors/MP 86699) electorate 433493, seats 5 LAs: Luton, Bedford, Central Bedfordshire 58 West End electorate 457329, seats 5 (electors/MP 91466) LAs: City of London, Hammersmith and Fulham, Kensington and Chelsea, Westminster, Camden 59 East End (electors/MP 96486)electorate 578915, seats 6 LAs: Islington, Hackney, Newham, Tower Hamlets 60 S Central London electorate 568459, (electors/MP 94743) seats 6 LAs: Southwark, Lambeth, Wandsworth

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61 Ealing & Hounslow
                                                                (electors/MP 92208)
                                  electorate 368832,
                                                      seats 4
LAs: Ealing, Hounslow
62 Harrow & Hillingdon
                                  electorate 345993,
                                                      seats 4
                                                                (electors/MP 86498)
LAs: Harrow, Hillingdon
63 Brent & Barnet
                                                                (electors/MP 97412)
                                  electorate 389647,
                                                      seats 4
LAs: Barnet, Brent
64 N London
                                                                (electors/MP 99761)
                                  electorate 498805,
                                                      seats 5
LAs: Haringey, Enfield, Waltham Forest
65 NE London
                                  electorate 481123,
                                                      seats 5
                                                                (electors/MP 96225)
LAs: Barking and Dagenham, Havering, Redbridge
                                                                (electors/MP 98700)
66 SE London
                                  electorate 493498,
                                                      seats 5
LAs: Lewisham, Bexley, Greenwich
67 Croydon & Bromley
                                  electorate 467577,
                                                      seats 5
                                                                (electors/MP 93515)
LAs: Bromley, Croydon
68 SW London
                                                                (electors/MP 99079)
                                  electorate 495397,
                                                      seats 5
LAs: Kingston upon Thames, Merton, Richmond upon Thames, Sutton
69 Buckinghamshire
                                  electorate 530091,
                                                                (electors/MP 88348)
                                                      seats 6
LAs: Milton Keynes, Buckinghamshire
70 N Kent
                                                                (electors/MP 83266)
                                  electorate 416332,
                                                      seats 5
LAs: Medway, Dartford, Gravesham, Swale
71 E Kent
                                  electorate 439460,
                                                      seats 5
                                                                (electors/MP 87892)
LAs: Ashford, Canterbury, Dover, Shepway, Thanet
72 SW Kent
                                  electorate 363281,
                                                                (electors/MP 90820)
                                                      seats 4
LAs: Maidstone, Sevenoaks, Tonbridge and Malling, Tunbridge Wells
73 Brighton & East Sussex
                                                                (electors/MP 96644)
                                  electorate 579867,
                                                      seats 6
LAs: East Sussex, Brighton and Hove
74 West Sussex
                                  electorate 598470,
                                                      seats 6
                                                                (electors/MP 99745)
LAs: West Sussex
75 NE Hampshire
                                  electorate 424129,
                                                                (electors/MP 84826)
                                                      seats 5
LAs: Basingstoke and Deane, East Hampshire, Hart, Rushmoor, Winchester
76 SE Hampshire
                                  electorate 377422,
                                                      seats 4
                                                                (electors/MP 94356)
LAs: Portsmouth, Fareham, Gosport, Havant
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77 W Hampshire
                                                                 (electors/MP 97575)
                                  electorate 487873,
                                                       seats 5
LAs: Southampton, Eastleigh, New Forest, Test Valley
78 E Surrey
                                  electorate 365735,
                                                       seats 4
                                                                 (electors/MP 91434)
LAs: Elmbridge, Epsom and Ewell, Mole Valley, Reigate and Banstead, Tandridge
79 W Surrey
                                  electorate 446987,
                                                       seats 5
                                                                 (electors/MP 89397)
LAs: Guildford, Runnymede, Spelthorne, Surrey Heath, Waverley, Woking
80 Isle of Wight
                                                                 (electors/MP 55174)
                                  electorate 110349,
                                                        seats 2
LAs: Isle of Wight
81 Berkshire
                                                                 (electors/MP 98597)
                                  electorate 591581,
                                                       seats 6
LAs: Berkshire
82 Oxfordshire
                                                                 (electors/MP 94297)
                                  electorate 471485,
                                                       seats 5
LAs: Oxfordshire
83 Wiltshire
                                  electorate 491826,
                                                       seats 5
                                                                 (electors/MP 98365)
LAs: Swindon, Wiltshire
                                                                 (electors/MP 91235)
84 Gloucestershire
                                  electorate 456176,
                                                        seats 5
LAs: Gloucestershire
85 Bristol & S Gloucestershire
                                  electorate 491492,
                                                                 (electors/MP 98298)
                                                       seats 5
LAs: Bristol, South Gloucestershire
86 Bath & N Somerset
                                                                 (electors/MP 95789)
                                  electorate 287367,
                                                       seats 3
LAs: Bath and North East Somerset, North Somerset
87 Somerset
                                  electorate 406321,
                                                                 (electors/MP 81264)
                                                       seats 5
LAs: Somerset
88 Dorset
                                                                 (electors/MP 94477)
                                  electorate 566863,
                                                        seats 6
LAs: Bournemouth, Poole, Dorset
89 N & E Devon
                                                                 (electors/MP 82358) (*)
                                  electorate 411790,
                                                        seats 5
LAs: East Devon, Exeter, Mid Devon, North Devon, Torridge, West Devon
90 S Devon
                                  electorate 456737,
                                                                 (electors/MP 91347)
                                                        seats 5
LAs: Plymouth, Torbay, South Hams, Teignbridge
91 Cornwall and Isles of Scilly
                                  electorate 412872,
                                                                 (electors/MP 82574) (*)
                                                        seats 5
LAs: Cornwall and Isles of Scilly
92 Gwynedd
                                  electorate 136437,
                                                       seats 2
                                                                 (electors/MP 68218 ) (*)
LAs: Isle of Anglesey, Gwynedd
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93 Clwyd
                                                                 (electors/MP 93866)
                                  electorate 375464,
                                                       seats 4
LAs: Conwy, Denbighshire, Flintshire, Wrexham
                                                                 (electors/MP 51344) (**)
94 Powvs
                                  electorate 102689,
                                                       seats 2
LAs: Powys
95 Dyfed
                                                                 (electors/MP 69993) (*)
                                  electorate 279972,
                                                       seats 4
LAs: Ceredigion, Pembrokeshire, Carmarthenshire
96 West Glamorgan
                                  electorate 292946,
                                                                 (electors/MP 97649)
                                                       seats 3
LAs: Swansea, Neath Port Talbot
97 Mid Glamorgan
                                                                 (electors/MP 79741)
                                  electorate 318965,
                                                       seats 4
LAs: Bridgend, Rhondda Cynon Taff, Merthyr Tydfil
                                                                 (electors/MP 83152)
98 South Glamorgan
                                  electorate 332608,
                                                       seats 4
LAs: Vale of Glamorgan, Cardiff
99 Gwent
                                  electorate 422688,
                                                       seats 5
                                                                 (electors/MP 84538)
LAs: Caerphilly, Blaenau Gwent, Torfaen, Monmouthshire, Newport
                                                                 (electors/MP 33431 ) (**)
100 Northern Isles
                                  electorate 33431,
                                                       seats 1
LAs: Orkney Islands, Shetland Islands
101 Eilean Siar
                                  electorate 21905,
                                                       seats 1
                                                                 (electors/MP 21905 ) (**)
LAs: Eilean Siar
102 Highland
                                                                 (electors/MP 57152 ) (**)
                                  electorate 171457,
                                                       seats 3
LAs: Highland
103 Grampian
                                  electorate 399912,
                                                       seats 5
                                                                 (electors/MP 79982) (*)
LAs: Aberdeen, Aberdeenshire, Moray
                                                                 (electors/MP 63230 ) (*)
104 Dundee & Angus
                                  electorate 189690,
                                                       seats 3
LAs: Angus, Dundee
105 Mid Scotland
                                  electorate 212507,
                                                                 (electors/MP 70836) (*)
                                                       seats 3
LAs: Clackmannanshire, Perth and Kinross, Stirling
106 Argyll & Bute
                                                                 (electors/MP 68235 ) (**)
                                  electorate 68235,
                                                       seats 1
LAs: Argyll and Bute
107 Fife
                                  electorate 279547,
                                                                 (electors/MP 93182)
                                                       seats 3
LAs: Fife
108 Edinburgh
                                  electorate 322118,
                                                       seats 4
                                                                 (electors/MP 80530)
LAs: Edinburgh
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109 SE Scotland electorate 224001, seats 3 (electors/MP 74667) (\*)

LAs: East Lothian, Midlothian, Scottish Borders

110 Dumfries & Galloway electorate 116758, seats 2 (electors/MP 58379) (\*\*)

LAs: Dumfries and Galloway

111 Ayrshire electorate 291217, seats 4 (electors/MP 72804) (\*)

LAs: East Ayrshire, North Ayrshire, South Ayrshire

112 Glasgow electorate 428113, seats 5 (electors/MP 85623)

LAs: Glasgow

113 West of Scotland electorate 393079, seats 4 (electors/MP 98270)

LAs: East Dunbartonshire, East Renfrewshire, Inverclyde, Renfrewshire,

West Dunbartonshire

114 Lanarkshire electorate 494403, seats 5 (electors/MP 98881)

LAs: North Lanarkshire, South Lanarkshire

115 Falkirk & West Lothian electorate 238775, seats 3 (electors/MP 79592)

LAs: Falkirk, West Lothian

116 Northern Ireland NW electorate 350926, seats 4 (electors/MP 87732) (\*)

LAs: Ballymoney, Coleraine, Cookstown, Derry, Dungannon, Fermanagh, Limavady, Magherafelt, Moyle, Omagh, Strabane

117 Belfast & Antrim electorate 460726, seats 5 (electors/MP 92145)

LAs: Antrim, Ballymena, Belfast, Carrickfergus, Castlereagh, Larne, Lisburn, Newtownabbey

118 Northern Ireland SE electorate 344226, seats 4 (electors/MP 86056)

LAs: Ards, Armagh, Banbridge, Craigavon, Down, Newry and Mourne, North Down

### Sources of information

Thanks are due to the Office for National Statistics and the General Register Office for Scotland for providing the required non-standard statistics for England, Wales and Scotland, namely the numbers of UK parliamentary electors in each local authority area on the current Electoral Register (reference date 1 December 2008). The list of local authorities has been updated, to those current from 1 April 2009, using sources including the map from the Office of National Statistics.

Thanks are also due to the Northern Ireland Electoral Office, whose website provides numbers of UK parliamentary electors as at 1 October 2009, including a breakdown by local authority area. A revision of local authorities in Northern Ireland, reducing their number from 26 to 11, has been proposed, to come into use from 2011. Note that the three constituencies proposed here for Northern Ireland would need only very minor changes to fit with these new local authority areas.

UK Electoral Statistics 2008:

 $http://www.statistics.gov.uk/downloads/theme\_other/UK\_Electoral\_Statistics\_2008.xls$ 

Map of Local authorities in the UK from 1st April 2009:

 $http://www.statistics.gov.uk/geography/downloads/CTY\_LAD\_APR\_2009\_UK\_MP.pdf$ 

Boundary Commission for England: Fifth Periodical Report, 2007:

http://www.official-documents.gov.uk/document/cm70/7032/7032.asp

Electoral Statistics - Scotland 1st December 2008:

http://www.gro-scotland.gov.uk/statistics/publications-and-data/electoral-statistics/

Electoral Office for Northern Ireland: 1 October 2009 Parliamentary Electorate: http://www.eoni.org.uk/october\_2009\_parliamentary\_electorate\_by\_ward.pdf

Review of Local Government Boundaries in Northern Ireland (2008/2009): http://www.lgbc-ni.org/index/publications/final\_recommendations.htm

### APPENDIX: SUMMARY STATISTICS

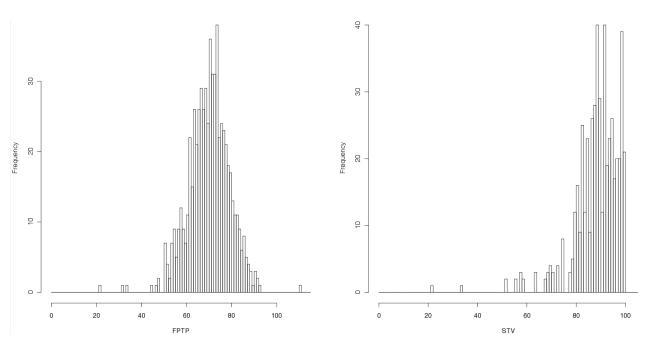
The schedule and accompanying map show the result of applying the above rules, using data on the electoral registers current in 2009. It gives a Parliament of 512 MPs, just over 20% fewer than at present<sup>4</sup>, in 118 constituencies.

For England, roughly half the traditional (ceremonial) counties can be used as single constituencies. The larger counties and metropolitan areas are split into a number of constituencies, ranging up to 11 for Greater London, with each being a grouping of one or more district or unitary Local Authorities.<sup>5</sup>

For Wales, the eight ceremonial counties are each used as a single constituency, with number of MPs varying from 2 for the sparsely populated counties of Gwynedd and Powys up to 5 for Gwent. For Scotland, the 32 Councils are grouped into 16 constituencies. For Northern Ireland, the 26 Councils are grouped into 3 constituencies.

The distribution of the number of MPs per constituency is

Number 1 2 3 4 5 6 Frequency 3 5 13 38 46 13



A comparison of the variability of electorate per MP for the present UK constituencies (FPTP, average 70,000) and the proposed scheme (STV, average 88,300). On a variety of standard statistical measures, the proposed scheme has significantly less variability.

<sup>&</sup>lt;sup>4</sup>There are at present 646 MPs, to be increased to 650 at the next election.

<sup>&</sup>lt;sup>5</sup>There are two exceptions: Teesside, which straddles the Durham/ North Yorkshire boundary, and Rutland, which is included with Leicestershire.