

Correlation of 2004 and 2008 GLA Election Data with Demographic Variables by Ward

Introduction

This Update is based on the ward-level correlation of a series of demographic variables with votes cast in the Greater London Authority (GLA) Mayoral and Assembly elections. These correlations are calculated for both the 2004 and 2008 elections. The correlation values provide an indication of strength of relationship between two sets of variables – in this case, share of vote for a candidate or party and various demographic indicators.

We also looked at the degree of change between correlations for the 2004 and 2008 elections. The resulting values inform a brief discussion of the key findings from this analysis.

We selected demographic indicators from a range of sources including the, Department for Work and Pensions, Department for Communities and Local Government, Office for National Statistics, London Health Observatory and the Metropolitan Police Crime Statistics Series.

Tables 1 to 6 present the results of each set of correlation tests and are colour coded to give the a sense of where the stronger correlations lie. In Tables 1 and 3, parties which received less than 35,000 votes have been omitted. Copies of the full tables are available using the contact details at the end of this Update.

The following section explains the methodologies used to produce the correlation values and details of the context in which the results must be understood.

Methodology

Data for both the election votes and demographic variables were taken from 624 wards within London boroughs (the City of London was excluded from this analysis). This relatively large sample size means that any correlations of ± 0.1 are 99 per cent significant. This means that there is only a 1 per cent chance that the relationship between the data could have occurred randomly. Thus, correlations of over ± 0.1 are more than 99 per cent statistically significant.

To appreciate the strength of a correlation (r), the value, which is always between -1 and $+1$, should be squared. For example, when looking at correlations of say ± 0.3 and 0.5 , these values would yield an r^2 value of 0.09 and 0.25 respectively. Furthermore, squaring the highest value (in this analysis) of ± 0.9 would yield an r^2 of 0.81 . Therefore, a correlation of ± 0.9 is 9 times stronger than a correlation of ± 0.3 , not three times as might otherwise be assumed.

The relative strength or weakness of a correlation is down to individual interpretation. For the purpose of this analysis we have chosen values of $\pm 0.3 - 0.5$ to represent a weak correlation and greater than ± 0.5 as a strong correlation. We could equally have chosen higher or lower figures, however, these values were considered to have suitable functionality for the purpose of the analysis.

It is important to note that a statistical correlation does not prove any kind of cause and effect. Even if the voting follows a strong correlation with a variable it does not necessarily mean that these types of people vote for party X. However, strong correlations do indicate an increased likelihood of a subset of the population to vote in a particular way.

London Assembly Votes (Tables 2, 4 and 6)

In 2004 wards with an increasing Labour Party vote had a weak positive correlation of 0.35 with wards with high percentages of the population declaring their religion as Muslim. By 2008 this had become a strong positive correlation with a positive change of 0.22 giving a 2008 correlation value of 0.57. However, the already strong negative correlation between the Labour Party and those areas with high percentages of Christians of -0.48 increased to -0.60 . The Conservative Party on the other hand experienced the opposite. The weak positive correlation between the Conservative Party and areas with higher percentages of Christians of 0.33 in 2004 saw an increase to 0.43 in 2008. The weak negative correlation with areas high in percentages of the population stating Islam as their religion was strengthened by from -0.39 to a value of -0.50 in 2008.

Correlations between London Assembly voting patterns and ethnic groups show that the link strengthened between the Labour Party vote and areas high in percentages of both Pakistani and Bangladeshi groups. In both cases a weak positive correlation in 2004 was converted into a strong positive correlation in 2008. The correlation value for Pakistani groups rose from 0.29 to 0.40 in 2008, with the value for Bangladeshi groups increasing from 0.26 to 0.48. These trends are perhaps to be expected, given the concurrent increase in likely support from Muslim groups for the Labour Party. Another significant change recorded here was between the votes for the Conservative party and areas with a high percentage of the population that was White British. The strong positive correlation between the data increased in strength from 0.44 in 2004 to 0.56 in 2008. Again, this mirrors the growth in likely support from Christian Groups.

When looking at the social grade data taken from the 2001 Census, the key findings pertain to the UK Independence Party (UKIP). UKIP saw a weakening of their previously strong negative correlation with wards with a high percentage of people in the AB¹ group from -0.47 to -0.36 . In addition, a previously very strong positive correlation with the C2² group was weakened in 2008, with the value dropping from 0.68 to 0.58. In practical terms this means that in both years those areas with a high proportion in the AB group unlikely to show a strong UKIP Vote, though in 2008 this relationship was slightly weaker. Furthermore, in 2004 areas with a high percentage of C2 workers were more likely to have a high vote for UKIP than in 2008.

Lastly, in 2008 Labour had a very strong negative correlation of -0.64 with the percentage of people aged 16-74 who were employed. This figure has strengthened from -0.52 in the 2004 election. This means that those areas with a high proportion of people in employment were even less likely to have a high share of the vote for Labour in 2008 than they had been in 2004.

¹ The classification AB is taken from the 2001 Census and refers to the group described as higher and intermediate managerial/administrative/professional.

² Classification C2 is described as skilled manual workers.

London Mayoral Votes (Tables 1, 3 and 5)

In 2008 the Labour Party were more likely to garner votes from wards with a younger population than in 2004. The party had a 2004 correlation of -0.67 which strengthened to -0.81 in 2008.

The results for the correlation between mayoral votes and stated religion perhaps expectedly mirror those in the Assembly elections. The Conservative candidate increased the already strong correlation with areas higher in percentages of Christians from 0.36 to 0.55 in 2008. The Labour candidate on the other hand was less likely to gain a high share of the vote from these areas in 2008 (-0.66) than in 2004 (-0.51). Conversely, whilst the Labour Candidate enjoyed a large positive growth in the strength of the correlation with those areas with high numbers of Muslims, from 0.31 to 0.68 in 2008, the Conservative candidate was less likely to gain support from these areas in 2008 (-0.58) than in 2004 (-0.41).

In terms of voting by ethnicity, those areas with a higher percentage of the population listed as White British became less likely to vote for the Labour candidate with an increase in negative correlation from -0.64 in 2004 to -0.80 in 2008. Contrastingly, the Conservative candidate improved on an already strong positive correlation with these areas with a growth from 0.48 in 2004 to 0.68 in 2008. Weak positive correlations between the Labour candidate and areas with higher proportions of Bangladeshi and Pakistani residents in 2004, changed to much stronger correlations in 2008 – increasing from 0.08 to 0.45 and 0.20 to 0.39 respectively. It is possible to link these trends to those in terms of age of population discussed earlier. Ethnic populations are generally younger and as such, the increase in likely support from wards with a higher proportion of its population from the ethnic groups mentioned can be tied in to the increase in support from areas with younger populations.

The Labour Party candidate increased the share of the votes received from areas where income tends to be lower. In 2008 the correlation value had increased in negativity from its 2004 value of -0.22 to -0.44 in 2008. On a related note, there was also an increase in the strength of the correlation between the Labour candidate vote and areas with higher levels of unemployment. The 2004 value of 0.57 increased to 0.76 in 2008. Labour saw a strong reaction in the correlation with those areas with high levels of people in employment from a 2004 correlation of -0.36 to a 2008 correlation value of -0.63 . Furthermore, there was an increase in support from areas with a higher percentage of people who have never worked, with an increase to 0.74 in 2008, from the already strong correlation of 0.56 in 2004. There was a significant change calculated in the positive correlation between the Labour candidate and those areas where a higher percentage of people claim key benefits³. In 2008 the correlation increased to 0.62 from the 2004 value of 0.47 .

In 2008 the Liberal Democrat candidate developed a slightly stronger positive correlation of 0.34 with those wards where a higher percentage of the population has attained higher-level qualifications. In 2008, in areas with a high share of the vote for the Conservative candidate, there was less likely to be a high proportion of the population with no qualifications (-0.36), however this pattern had weakened slightly from the 2004 correlation (-0.45).

³ The key benefits data is taken from the department for Work and Pensions Information Directorate. The benefits included are: Bereavement Benefit, Carers Allowance, Disability Living Allowance/Severe Disability Benefit, Income Support, Job Seekers Allowance, Pension Credit and Widows Benefit. At present Housing Benefit and Council Tax Benefit are not included but could feature in the future.

Finally, when looking at the average score variable taken from the Department for Communities and Local Government 'Indices of Deprivation'⁴, the most significant change again occurred in the voting for the Labour candidate. The 2004 value of 0.57 (already a strong positive correlation) saw an increase to 0.75 in 2008. This means that the more deprived wards were even more likely to result in a strong vote for the Labour mayoral candidate in 2008 than in 2004. The reverse was true for the Conservative candidate where a strong negative correlation in 2004 became even stronger in 2008 (-0.72 to -0.77).

⁴ Indices of Deprivation are produced by the department for communities and local government and use a complex series of statistical procedures to combine information on a range of aspects of deprivation into a single measure. For further information please consult DMAG Briefing 2008-22 London Ward Level Measures for the Indices of Deprivation 2007 available at <http://www.london.gov.uk/gla/publications/factsandfigures/dmag-briefing-2008-22.pdf>.

Table 1: Correlation of 2008 Mayoral Election Data with Demographic Variables

	Barnbrook, Richard – British National Party	Batten, Gerard Joseph – UK Independence Party	Berry, Sian – Green Party	Craig, Alan – Christian Peoples Alliance and Christian Party	German, Lindsey Ann – Left List	Johnson, Boris – Conservative Party	Livingstone, Ken – The Labour Party Candidate	McKenzie, Winston Truman – Independent	O'Connor, Matt – English Democrats	Paddick, Brian Leonard – Liberal Democrats
Variable:										
Age										
Mean Age	0.11	0.16	-0.34	-0.31	-0.56	0.80	-0.81	-0.48	0.00	0.05
Life Expectancy										
Life Expectancy Male	-0.14	-0.09	-0.25	-0.32	-0.46	0.65	-0.59	-0.35	-0.21	0.04
Life Expectancy Female	-0.20	-0.13	-0.14	-0.28	-0.30	0.48	-0.42	-0.29	-0.21	0.02
Religion:										
% Christian	0.41	0.34	-0.30	0.06	-0.45	0.55	-0.66	-0.31	0.31	0.15
% Buddhist	-0.43	-0.45	0.41	-0.11	0.26	-0.22	0.28	-0.04	-0.38	0.10
% Hindu	-0.14	0.08	-0.21	0.06	0.03	-0.13	0.22	0.29	0.00	-0.17
% Jewish	-0.22	-0.26	-0.01	-0.20	-0.09	0.23	-0.15	-0.17	-0.27	-0.10
% Muslim	-0.23	-0.17	0.12	0.11	0.52	-0.58	0.68	0.39	-0.14	-0.28
% Sikh	0.01	0.16	-0.17	0.04	0.07	-0.16	0.21	0.26	0.09	-0.23
% Other religions	-0.26	-0.19	0.05	-0.10	0.03	-0.01	0.08	0.08	-0.18	-0.05
% No religion	-0.13	-0.35	0.69	-0.27	0.04	-0.15	0.04	-0.30	-0.23	0.52
% Religion not stated	-0.13	-0.27	0.39	0.11	0.38	-0.33	0.31	0.11	-0.14	0.06
Ethnic Group										
White:										
British	0.48	0.38	-0.30	-0.18	-0.56	0.68	-0.80	-0.49	0.31	0.17
Irish	-0.38	-0.40	0.44	-0.19	0.21	-0.28	0.30	0.05	-0.23	0.24
Other White	-0.51	-0.61	0.42	-0.31	0.20	0.04	0.04	-0.18	-0.52	0.10
Mixed:										
White and Black Caribbean	-0.14	-0.16	0.41	0.36	0.46	-0.67	0.64	0.45	-0.02	0.07
White and Black African	-0.30	-0.37	0.48	0.23	0.53	-0.66	0.67	0.32	-0.20	0.05
White and Asian	-0.54	-0.45	0.28	-0.22	0.11	-0.06	0.15	0.02	-0.35	0.16
Other Mixed	-0.55	-0.56	0.55	-0.06	0.42	-0.41	0.47	0.18	-0.39	0.16
Asian or Asian British:										
Indian	-0.12	0.10	-0.21	0.06	0.07	-0.18	0.27	0.35	0.01	-0.25
Pakistani	-0.11	0.02	-0.12	0.22	0.17	-0.38	0.45	0.39	-0.06	-0.19
Bangladeshi	-0.08	-0.11	0.10	-0.04	0.30	-0.33	0.39	0.13	-0.08	-0.18
Other Asian	-0.20	0.05	-0.18	0.12	0.12	-0.24	0.33	0.34	0.00	-0.14
Black or Black British:										
Caribbean	-0.25	-0.18	0.36	0.38	0.51	-0.68	0.69	0.53	-0.11	-0.01
African	-0.14	-0.18	0.27	0.50	0.49	-0.67	0.68	0.40	-0.07	-0.08
Other Black	-0.24	-0.22	0.42	0.34	0.51	-0.69	0.69	0.45	-0.13	0.00
Chinese or other ethnic group:										
Chinese	-0.31	-0.36	0.20	-0.08	0.11	-0.08	0.14	-0.09	-0.30	0.06
Other Ethnic Group	-0.38	-0.37	0.18	-0.07	0.21	-0.11	0.18	0.02	-0.28	0.01
Cars										
% With No cars	-0.21	-0.37	0.55	0.09	0.54	-0.63	0.64	0.20	-0.24	0.01
% With 2 or more cars	0.19	0.36	-0.56	-0.13	-0.51	0.66	-0.66	-0.23	0.24	-0.06
Tenure										
Owner Occupied:										
%Owns outright	0.06	0.23	-0.50	-0.22	-0.52	0.75	-0.70	-0.31	0.04	-0.10
%Owns with mortgage or loan	0.28	0.45	-0.45	0.02	-0.41	0.40	-0.44	-0.05	0.33	0.04
%Shared ownership	-0.03	0.01	0.16	0.15	0.32	-0.38	0.37	0.28	0.12	0.01
Rented From:										
%Council (local authority)	0.19	-0.03	0.24	0.27	0.40	-0.55	0.50	0.22	0.12	-0.06
%Housing Association / Registered Social Landlord	-0.21	-0.20	0.36	0.03	0.37	-0.37	0.39	0.16	-0.11	-0.01
%Private landlord or letting agency	-0.57	-0.63	0.47	-0.24	0.13	-0.15	0.23	-0.07	-0.58	0.19
%Other	-0.35	-0.38	0.16	-0.21	0.11	0.06	0.03	-0.11	-0.34	-0.02
Income										
Median Equivalised Household Income (£)	-0.45	-0.52	0.30	-0.51	-0.36	0.47	-0.44	-0.56	-0.51	0.37
Employment Rate										
% of people aged 16–74										
Employed	-0.07	-0.03	-0.05	-0.35	-0.59	0.59	-0.63	-0.44	-0.08	0.39
who have never worked	-0.04	-0.02	0.12	0.39	0.59	-0.69	0.74	0.52	0.03	-0.30

	Barnbrook, Richard - British National Party	Batten, Gerard Joseph - UK Independence Party	Berry, Sian - Green Party	Craig, Alan - Christian Peoples Alliance and Christian Party	German, Lindsey Ann Left List	Johnson, Boris - Conservative Party	Livingstone, Ken - The Labour Party Candidate	McKenzie, Winston Truman - Independent	O'Connor, Matt - English Democrats	Paddick, Brian Leonard - Liberal Democrats
Variable:										
Unemployment										
% Unemployed (working Pop)	0.10	0.03	0.23	0.42	0.63	-0.78	0.76	0.52	0.12	-0.20
Key Benefits										
% of working age population claiming key benefits	0.27	0.18	0.10	0.42	0.56	-0.67	0.62	0.50	0.31	-0.24
Qualifications										
% aged 16 - 74 with:										
Highest qualification attained level 4/5	-0.70	-0.78	0.60	-0.44	-0.01	0.03	0.05	-0.33	-0.72	0.34
No qualifications	0.66	0.61	-0.33	0.48	0.29	-0.36	0.29	0.43	0.60	-0.39
Social Grade										
AB Higher and intermediate managerial/administrative/profession al	-0.57	-0.59	0.30	-0.53	-0.34	0.46	-0.39	-0.53	-0.60	0.34
C1 Supervisory, clerical, junior managerial/administrative/profession al	-0.26	-0.13	-0.02	-0.31	-0.45	0.56	-0.54	-0.36	-0.20	0.28
C2 Skilled manual workers	0.69	0.76	-0.52	0.44	0.07	-0.18	0.09	0.42	0.72	-0.30
D Semi-skilled and unskilled manual workers	0.42	0.42	-0.16	0.54	0.45	-0.63	0.59	0.60	0.46	-0.32
E On state benefit, unemployed, lowest grade workers	0.31	0.19	0.04	0.33	0.49	-0.51	0.48	0.33	0.25	-0.29
Crime										
Incidence of Crime per thousand population	-0.06	-0.10	0.10	0.01	0.10	-0.12	0.13	0.02	-0.08	0.00
Indices of Deprivation										
Average Score	0.07	-0.05	0.31	0.37	0.64	-0.77	0.75	0.46	0.08	-0.20

Red Values = Correlation Coefficients greater than +/- 0.5
 Blue Values = Correlation Coefficients between -0.3 and -0.5 or 0.3 and 0.5

Table 2: Correlation of 2008 Assembly Election Data with Demographic Variables

Variable:	Abolish the congestion Charge	British Natonal Party	The Christian Choice	Conservative Party	Green Party	The Labour Party	Liberal Democrats	Respect	Uk Independece Party
Age									
Mean Age	-0.14	0.18	-0.24	0.77	-0.29	-0.75	0.03	-0.52	0.43
Life Expectancy									
Life Expectancy Male	-0.01	-0.11	-0.29	0.68	-0.21	-0.60	0.08	-0.28	0.09
Life Expectancy Female	0.05	-0.17	-0.27	0.52	-0.11	-0.43	0.05	-0.21	-0.01
Religion									
% Christian	-0.10	0.48	0.16	0.43	-0.23	-0.60	0.09	-0.57	0.62
% Buddhist	0.17	-0.44	-0.14	-0.14	0.40	0.19	0.10	0.06	-0.51
% Hindu	0.15	-0.19	0.03	-0.06	-0.30	0.35	-0.17	0.11	-0.18
% Jewish	0.00	-0.22	-0.25	0.29	0.01	-0.14	-0.07	-0.05	-0.21
% Muslim	0.14	-0.28	0.04	-0.50	0.05	0.57	-0.22	0.91	-0.42
% Sikh	0.10	-0.03	-0.02	-0.14	-0.22	0.32	-0.19	0.13	-0.05
% Other religions	0.10	-0.28	-0.11	0.07	0.01	0.13	-0.05	-0.06	-0.26
% No religion	-0.29	-0.11	-0.25	-0.16	0.75	-0.15	0.50	-0.30	-0.15
% Religion not stated	0.03	-0.14	0.08	-0.33	0.42	0.26	0.09	-0.01	-0.27
Ethnic Group									
White:									
British	-0.32	0.55	-0.10	0.56	-0.23	-0.78	0.15	-0.54	0.70
Irish	0.21	-0.39	-0.18	-0.22	0.41	0.25	0.20	-0.09	-0.44
Other White	0.23	-0.51	-0.33	0.14	0.44	-0.07	0.12	-0.05	-0.57
Mixed:									
White and Black Caribbean	0.16	-0.17	0.36	-0.65	0.41	0.63	-0.01	0.12	-0.30
White and Black African	0.34	-0.34	0.19	-0.61	0.46	0.63	0.03	0.22	-0.52
White and Asian	0.17	-0.58	-0.22	0.07	0.25	0.08	0.14	0.00	-0.52
Other Mixed	0.33	-0.58	-0.08	-0.31	0.54	0.39	0.12	0.06	-0.65
Asian or Asian British:									
Indian	0.16	-0.18	0.01	-0.11	-0.30	0.40	-0.23	0.19	-0.18
Pakistani	0.06	-0.17	0.17	-0.32	-0.18	0.48	-0.18	0.49	-0.23
Bangladeshi	-0.03	-0.10	-0.08	-0.30	0.06	0.22	-0.12	0.82	-0.21
Other Asian	0.17	-0.26	0.10	-0.16	-0.25	0.43	-0.16	0.18	-0.24
Black or Black British:									
Caribbean	0.15	-0.29	0.39	-0.62	0.35	0.70	-0.07	0.18	-0.36
African	0.20	-0.17	0.44	-0.66	0.25	0.69	-0.06	0.24	-0.35
Other Black	0.19	-0.27	0.33	-0.64	0.43	0.68	-0.04	0.15	-0.38
Chinese or other ethnic group:									
Chinese	0.14	-0.30	-0.10	-0.03	0.20	0.09	0.06	0.04	-0.35
Other ethnic group	0.44	-0.41	-0.10	-0.03	0.17	0.14	0.02	0.10	-0.48
Cars									
% With No cars	0.24	-0.24	0.02	-0.60	0.53	0.52	0.01	0.39	-0.50
% With 2 or more cars	-0.19	0.22	-0.06	0.64	-0.55	-0.54	-0.04	-0.37	0.50
Tenure									
Owner Occupied:									
Owns outright	-0.16	0.10	-0.16	0.75	-0.47	-0.61	-0.08	-0.35	0.40
Owns with mortgage or loan	-0.31	0.30	0.09	0.36	-0.45	-0.33	0.00	-0.31	0.53
Shared ownership	0.24	-0.06	0.13	-0.39	0.13	0.37	-0.02	0.18	-0.14
Rented From:									
Council (local authority)	0.12	0.16	0.22	-0.61	0.22	0.48	-0.05	0.27	-0.15
Housing Association / Registered Social Landlord	0.35	-0.22	0.00	-0.35	0.36	0.31	-0.01	0.22	-0.28
Private landlord or letting agency	0.05	-0.58	-0.28	-0.03	0.46	0.08	0.21	0.16	-0.65
Other	0.22	-0.36	-0.24	0.14	0.14	-0.03	0.02	0.09	-0.42
Income									
Median Equivalised Household Income (£)	-0.20	-0.40	-0.48	0.55	0.35	-0.60	0.40	-0.32	-0.25

Variable:	Abolish the congestion Charge	British National Party	The Christian Choice	Conservative Party	Green Party	The Labour Party	Liberal Democrats	Respect	Uk Independence Party
Employment Rate									
% of people aged 16-74 employed	-0.27	-0.02	-0.28	0.59	0.00	-0.64	0.34	-0.61	0.22
% who have never worked	0.23	-0.11	0.31	-0.66	0.06	0.79	-0.29	0.51	-0.33
Unemployment									
% Unemployed (working Pop)	0.14	0.05	0.37	-0.79	0.20	0.75	-0.21	0.50	-0.22
Key Benefits									
% of working age population claiming key benefits	0.23	0.22	0.38	-0.72	0.06	0.69	-0.26	0.34	-0.06
Qualifications									
% aged 16 - 74 with:									
Highest qualification attained level 4/5	-0.04	-0.69	-0.46	0.16	0.61	-0.14	0.38	-0.09	-0.68
No qualifications	0.13	0.63	0.45	-0.49	-0.36	0.42	-0.41	0.34	0.42
Social Grade									
AB Higher and intermediate managerial/administrative/professional	-0.20	-0.53	-0.50	0.57	0.33	-0.54	0.38	-0.30	-0.36
C1 Supervisory, clerical, junior managerial/administrative/professional	-0.22	-0.20	-0.24	0.60	0.03	-0.56	0.23	-0.51	0.14
C2 Skilled manual workers	0.11	0.66	0.44	-0.30	-0.55	0.29	-0.35	0.12	0.58
D Semi-skilled and unskilled manual workers	0.23	0.36	0.49	-0.71	-0.22	0.72	-0.34	0.41	0.11
E On state benefit, unemployed, lowest grade workers	0.22	0.29	0.28	-0.58	0.02	0.49	-0.28	0.45	0.03
Crime									
Incidence of Crime per thousand population	0.12	-0.07	0.00	-0.10	0.08	0.11	-0.02	0.06	-0.14
Indices of Deprivation									
Average Score	0.22	0.02	0.30	-0.78	0.27	0.73	-0.20	0.51	-0.29

Red Values = Correlation Coefficients greater than +/- 0.5

Blue Values = Correlation Coefficients between 0.3 and 0.5 or -0.3 and -0.5

Important Note: Parties receiving less than 35,000 votes have been omitted from this table. Copies of the full table are available using the contact details at the end of this document.

Table 3: Correlation of 2004 Mayoral Election Data with Demographic Variables

	Lindsay Ann German - Respect	Balram Gidoomal - Christian People's Alliance	Simon Hughes - Liberal Democrats	Darren Johnson - Green Party	Julian Peter - Leppart	Ken Livingstone - Labour Party	Frank Maloney - UKIP	DR Tammy Nagalingham	Steven Norris - Conservative and Unionist Party	Lorna Reid - Independent Working Class
Variable										
Age										
Mean Age	-0.61	-0.29	0.14	-0.37	0.11	-0.67	0.28	-0.23	0.74	-0.33
Life Expectancy										
Life Expectancy Male	-0.35	-0.27	0.16	-0.29	-0.17	-0.52	-0.05	-0.09	0.67	-0.46
Life Expectancy Female	-0.26	-0.25	0.13	-0.16	-0.22	-0.36	-0.13	-0.06	0.52	-0.37
Religion										
% Christian	-0.65	0.01	0.20	-0.32	0.44	-0.51	0.58	-0.38	0.36	-0.08
% Buddhist	0.09	-0.05	0.08	0.39	-0.45	0.33	-0.53	-0.01	-0.10	-0.01
% Hindu	0.13	0.21	-0.15	-0.18	-0.18	0.16	-0.19	0.65	-0.04	-0.03
% Jewish	-0.07	-0.21	-0.09	-0.01	-0.22	-0.14	-0.24	-0.04	0.36	-0.19
% Muslim	0.94	0.09	-0.22	0.16	-0.23	0.30	-0.36	0.23	-0.41	0.13
% Sikh	0.20	0.07	-0.23	-0.13	-0.02	0.22	-0.03	0.39	-0.16	0.08
% Other religions	-0.04	0.02	-0.05	0.07	-0.28	0.11	-0.29	0.19	0.10	-0.08
% No religion	-0.27	-0.29	0.31	0.61	-0.13	0.29	-0.17	-0.40	-0.23	0.04
% Religion not stated	0.07	0.05	-0.04	0.40	-0.14	0.39	-0.23	-0.21	-0.30	0.21
Ethnic Group										
White:										
British	-0.63	-0.24	0.20	-0.34	0.50	-0.66	0.65	-0.43	0.48	-0.15
Irish	-0.05	-0.16	0.11	0.42	-0.37	0.42	-0.45	0.04	-0.19	0.11
Other White	0.00	-0.33	0.00	0.41	-0.50	0.16	-0.61	-0.18	0.20	-0.14
Mixed:										
White and Black Caribbean	0.21	0.37	-0.08	0.44	-0.12	0.64	-0.19	0.11	-0.62	0.37
White and Black African	0.32	0.21	-0.04	0.51	-0.29	0.67	-0.44	0.04	-0.57	0.27
White and Asian	0.06	-0.14	-0.02	0.27	-0.53	0.24	-0.57	0.18	0.09	-0.16
Other Mixed	0.16	-0.01	0.01	0.56	-0.54	0.55	-0.65	0.07	-0.26	0.09
Asian or Asian British:										
Indian	0.24	0.18	-0.23	-0.17	-0.16	0.22	-0.18	0.60	-0.10	0.01
Pakistani	0.60	0.25	-0.23	-0.06	-0.15	0.26	-0.20	0.45	-0.30	0.05
Bangladeshi	0.73	-0.09	-0.06	0.09	-0.06	0.02	-0.16	-0.03	-0.23	0.06
Other Asian	0.24	0.24	-0.16	-0.12	-0.22	0.24	-0.24	0.81	-0.13	0.00
Black or Black British:										
Caribbean	0.29	0.44	-0.13	0.40	-0.26	0.68	-0.31	0.21	-0.59	0.28
African	0.31	0.48	-0.03	0.27	-0.14	0.62	-0.26	0.08	-0.63	0.28
Other Black	0.26	0.39	-0.08	0.44	-0.24	0.69	-0.31	0.10	-0.61	0.30
Chinese or other ethnic group:										
Chinese	0.03	-0.04	0.12	0.18	-0.30	0.13	-0.36	-0.02	0.00	-0.03
Other ethnic group	0.15	-0.05	-0.04	0.22	-0.40	0.20	-0.49	0.11	0.03	-0.05
Cars										
% With No cars	0.45	0.03	-0.05	0.55	-0.22	0.56	-0.41	-0.08	-0.54	0.32
% With 2 or more cars	-0.43	-0.05	0.04	-0.57	0.20	-0.61	0.39	0.04	0.59	-0.32
Tenure										
Owner Occupied:										
% Owns outright	-0.41	-0.16	0.00	-0.50	0.05	-0.64	0.24	0.02	0.73	-0.42
% Owns with a mortgage or loan	-0.34	0.07	0.00	-0.44	0.29	-0.39	0.47	0.17	0.29	-0.18
% Shared ownership	0.22	0.14	0.01	0.19	-0.01	0.30	-0.06	0.12	-0.38	0.27
Rented From:										
% Council (local authority)	0.27	0.18	0.00	0.23	0.20	0.39	0.03	-0.10	-0.57	0.44
% Housing Association / Registered Social Landlord	0.28	0.02	-0.03	0.37	-0.20	0.35	-0.26	-0.09	-0.32	0.20
% Private landlord or letting agency	0.21	-0.22	0.04	0.45	-0.59	0.31	-0.71	0.00	-0.01	-0.20
%: Other	0.10	-0.21	-0.08	0.16	-0.35	0.07	-0.45	-0.03	0.18	-0.10
Income										
Median Equivalised Household Income (£)	-0.38	-0.46	0.31	0.20	-0.45	-0.22	-0.41	-0.35	0.51	-0.47
Employment Rate										
% of people aged 16-74 Employed	-0.67	-0.28	0.29	-0.10	-0.06	-0.36	0.09	-0.17	0.50	-0.38
% of people aged 16-74 who have never worked	0.61	0.36	-0.31	0.18	-0.05	0.56	-0.19	0.33	-0.60	0.36

	Lindsay Ann German - Respect	Balram Gidoomal - Christian People's Alliance	Simon Hughes - Liberal Democrats	Darren Johnson - Green Party	Julian Peter - Leppart	Ken Livingstone - Labour Party	Frank Maloney - UKIP	DR Tammy Nagalingham	Steven Norris - Conservative and Unionist Party	Lorna Reid - Independent Working Class
Variable										
Unemployment										
% Unemployed (working Pop)	0.59	0.34	-0.24	0.30	0.11	0.57	-0.05	0.10	-0.73	0.50
Key Benefits										
% of working age population claiming key benefits	0.42	0.33	-0.27	0.18	0.28	0.47	0.14	0.12	-0.66	0.58
Qualifications										
% aged 16 - 74 with: Highest qualification attained level 4/5	-0.07	-0.38	0.23	0.51	-0.72	0.24	-0.78	-0.17	0.16	-0.33
% aged 16 -74 with: No qualifications	0.35	0.35	-0.31	-0.25	0.68	0.04	0.61	0.13	-0.45	0.52
Social Grade										
AB Higher and intermediate managerial/administrative/professi onal	-0.34	-0.44	0.29	0.19	-0.58	-0.17	-0.53	-0.25	0.54	-0.53
C1 Supervisory, clerical, junior managerial/administrative/professi onal	-0.53	-0.20	0.22	-0.06	-0.26	-0.34	-0.06	-0.11	0.55	-0.42
C2 Skilled manual workers	0.13	0.38	-0.26	-0.42	0.70	-0.08	0.71	0.28	-0.30	0.39
D Semi-skilled and unskilled manual workers	0.47	0.47	-0.30	-0.07	0.42	0.38	0.30	0.34	-0.67	0.53
E On state benefit, unemployed, lowest grade workers	0.47	0.20	-0.21	0.09	0.31	0.25	0.19	-0.03	-0.51	0.49
Crime										
Incidence of Crime per thousand population	0.06	0.02	-0.05	0.11	-0.07	0.11	-0.13	0.03	-0.06	0.09
Indices of Deprivation										
Average Score	0.59	0.28	-0.23	0.35	0.08	0.57	-0.10	0.07	-0.72	0.52

Red Values = Correlation Coefficients greater than +/- 0.5
Blue Values = Correlation Coefficients between -0.3 and -0.5 or 0.3 and 0.5

Table 4: Correlation of 2004 Assembly Election Data with Demographic Variables

	British National Party	Christian People's Alliance	Conservative and Unionist Party	Green Party	Labour Party	Liberal Democrats	Respect	UKIP
Variable:								
Age								
Mean Age	0.13	-0.29	0.72	-0.27	-0.67	0.04	-0.62	0.37
Life Expectancy								
Life Expectancy Male	-0.17	-0.30	0.68	-0.21	-0.56	0.11	-0.36	0.02
Life Expectancy Female	-0.21	-0.28	0.53	-0.10	-0.40	0.10	-0.26	-0.08
Religion								
% Christian	0.47	0.12	0.32	-0.22	-0.48	0.07	-0.67	0.63
% Buddhist	-0.45	-0.03	-0.07	0.40	0.18	0.15	0.12	-0.54
% Hindu	-0.20	0.02	0.01	-0.29	0.34	-0.16	0.12	-0.21
% Jewish	-0.24	-0.26	0.34	0.00	-0.14	-0.05	-0.05	-0.23
% Muslim	-0.24	0.05	-0.39	0.04	0.34	-0.17	0.93	-0.40
% Sikh	-0.03	-0.06	-0.16	-0.22	0.39	-0.23	0.19	-0.05
% Other religions	-0.30	-0.10	0.13	0.01	0.13	-0.02	-0.03	-0.29
% No religion	-0.13	-0.15	-0.21	0.75	-0.11	0.47	-0.21	-0.17
% Religion not stated	-0.15	0.11	-0.30	0.42	0.28	0.05	0.12	-0.27
Ethnic Group								
White:								
British	0.52	-0.17	0.43	-0.22	-0.69	0.12	-0.66	0.70
Irish	-0.38	-0.17	-0.17	0.44	0.27	0.24	-0.01	-0.45
Other White	-0.52	-0.29	0.22	0.46	-0.07	0.15	0.04	-0.60
Mixed:								
White and Black Caribbean	-0.13	0.44	-0.62	0.39	0.63	-0.04	0.25	-0.25
White and Black African	-0.30	0.25	-0.56	0.46	0.61	0.04	0.37	-0.49
White and Asian	-0.56	-0.19	0.13	0.27	0.08	0.15	0.08	-0.57
Other Mixed	-0.55	0.01	-0.24	0.55	0.38	0.15	0.22	-0.67
Asian or Asian British:								
Indian	-0.19	-0.02	-0.07	-0.29	0.42	-0.24	0.24	-0.20
Pakistani	-0.17	0.14	-0.27	-0.17	0.37	-0.20	0.61	-0.22
Bangladeshi	-0.05	-0.05	-0.21	0.04	0.00	-0.05	0.69	-0.18
Other Asian	-0.24	0.09	-0.09	-0.24	0.41	-0.15	0.23	-0.26
Black or Black British:								
Caribbean	-0.27	0.48	-0.57	0.32	0.70	-0.09	0.33	-0.37
African	-0.14	0.51	-0.62	0.22	0.68	-0.05	0.34	-0.31
Other Black	-0.24	0.44	-0.60	0.39	0.69	-0.05	0.30	-0.37
Chinese or other ethnic group:								
Chinese	-0.28	-0.02	0.02	0.20	0.05	0.14	0.05	-0.35
Other ethnic group	-0.41	-0.07	0.05	0.18	0.15	0.04	0.17	-0.49
Cars								
% With No cars	-0.22	0.09	-0.53	0.53	0.43	0.05	0.48	-0.45
% With 2 or more cars	0.20	-0.12	0.58	-0.55	-0.47	-0.06	-0.47	0.45
Tenure								
Owner Occupied:								
% Owns outright	0.05	-0.22	0.72	-0.46	-0.55	-0.09	-0.43	0.31
% Owns with a mortgage or loan	0.29	0.02	0.28	-0.44	-0.27	-0.06	-0.36	0.50
% Shared ownership	0.00	0.13	-0.39	0.11	0.37	-0.02	0.22	-0.10
Rented From:								
% Council (local authority)	0.20	0.24	-0.60	0.20	0.43	-0.02	0.28	-0.02
% Housing Association / Registered Social Landlord	-0.19	0.07	-0.32	0.36	0.28	0.01	0.29	-0.29
% Private landlord or letting agency	-0.61	-0.20	0.05	0.49	0.03	0.23	0.25	-0.71
%: Other	-0.36	-0.21	0.22	0.17	-0.05	0.02	0.12	-0.44
Income								
Median Equivalised Household Income (£)	-0.44	-0.37	0.56	0.37	-0.58	0.43	-0.36	-0.35
Employment Rate								
% of people aged 16-74 Employed	-0.05	-0.24	0.51	0.03	-0.52	0.32	-0.66	0.14
% of people aged 16-74 who have never worked	-0.07	0.30	-0.60	0.05	0.71	-0.29	0.62	-0.26

	British National Party	Christian People's Alliance	Conservative and Unionist Party	Green Party	Labour Party	Liberal Democrats	Respect	UKIP
Variable:								
Unemployment								
% Unemployed (working Pop)	0.10	0.35	-0.74	0.18	0.67	-0.22	0.59	-0.13
Key Benefits								
% of working age population claiming key benefits	0.28	0.31	-0.70	0.05	0.64	-0.28	0.42	0.06
Qualifications								
% aged 16 - 74 with: Highest qualification attained level 4/5	-0.73	-0.32	0.23	0.64	-0.15	0.42	-0.02	-0.76
% aged 16 -74 with: No qualifications	0.68	0.30	-0.52	-0.39	0.38	-0.43	0.30	0.55
Social Grade								
AB Higher and intermediate managerial/administrative/professional	-0.58	-0.38	0.60	0.36	-0.52	0.41	-0.31	-0.47
C1 Supervisory, clerical, junior managerial/administrative/professional	-0.25	-0.18	0.56	0.04	-0.49	0.23	-0.50	0.00
C2 Skilled manual workers	0.71	0.29	-0.37	-0.57	0.30	-0.40	0.09	0.67
D Semi-skilled and unskilled manual workers	0.41	0.40	-0.71	-0.25	0.69	-0.38	0.45	0.23
E On state benefit, unemployed, lowest grade workers	0.32	0.22	-0.55	0.00	0.41	-0.27	0.45	0.14
Crime								
Incidence of Crime per thousand population	-0.07	-0.02	-0.04	0.09	0.10	-0.03	0.06	-0.14
Indices of Deprivation								
Average Score	0.08	0.29	-0.74	0.25	0.64	-0.19	0.60	-0.18

Red Values = Correlation Coefficients greater than +/- 0.5

Blue Values = Correlation Coefficients between -0.3 and -0.5 or 0.3 and 0.5

Important Note: Parties receiving less than 35,000 votes have been omitted from this table. Copies of the full table are available using the contact details at the end of this document.

Table 5: Summary Table for Conservative and Labour Parties (Mayoral Votes)

Variable:	Conservative Party		Labour Party	
	2004 Mayoral Election	2008 Mayoral Election	2004 Mayoral Election	2008 Mayoral Election
Age				
Mean Age	0.74	0.80	-0.67	-0.81
Life Expectancy				
Life Expectancy Male	0.67	0.65	-0.52	-0.59
Life Expectancy Female	0.52	0.48	-0.36	-0.42
Religion:				
% Christian	0.36	0.55	-0.51	-0.66
% Buddhist	-0.10	-0.22	0.33	0.28
% Hindu	-0.04	-0.13	0.16	0.22
% Jewish	0.36	0.23	-0.14	-0.15
% Muslim	-0.41	-0.58	0.30	0.68
% Sikh	-0.16	-0.16	0.22	0.21
% Other religions	0.10	-0.01	0.11	0.08
% No religion	-0.23	-0.15	0.29	0.04
% Religion not stated	-0.30	-0.33	0.39	0.31
Ethnic Group				
<i>White:</i>				
British	0.48	0.68	-0.66	-0.80
White: Irish	-0.19	-0.28	0.42	0.30
Other White	0.20	0.04	0.16	0.04
<i>Mixed:</i>				
White and Black Caribbean	-0.62	-0.67	0.64	0.64
White and Black African	-0.57	-0.66	0.67	0.67
White and Asian	0.09	-0.06	0.24	0.15
Other Mixed	-0.26	-0.41	0.55	0.47
<i>Asian or Asian British:</i>				
Indian	-0.10	-0.18	0.22	0.27
Pakistani	-0.30	-0.38	0.26	0.45
Bangladeshi	-0.23	-0.33	0.02	0.39
Other Asian	-0.13	-0.24	0.24	0.33
<i>Black or Black British:</i>				
Caribbean	-0.59	-0.68	0.68	0.69
African	-0.63	-0.67	0.62	0.68
Other Black	-0.61	-0.69	0.69	0.69
<i>Chinese or Other Ethnic Group:</i>				
Chinese	0.00	-0.08	0.13	0.14
Other ethnic group	0.03	-0.11	0.20	0.18
Cars				
% With No cars	-0.54	-0.63	0.56	0.64
% With 2 or more cars	0.59	0.66	-0.61	-0.66
Tenure				
<i>Owner Occupied:</i>				
Owns outright	0.73	0.75	-0.64	-0.70
Owns with a mortgage or loan	0.29	0.40	-0.39	-0.44
Shared ownership	-0.38	-0.38	0.30	0.37
<i>Rented From:</i>				
Council local authority	-0.57	-0.55	0.39	0.50
Housing Association / Registered Social Landlord	-0.32	-0.37	0.35	0.39
Private landlord or letting agency	-0.01	-0.15	0.31	0.23
Other	0.18	0.06	0.07	0.03

Variable:	Conservative Party		Labour Party	
	2004 Mayoral Election	2008 Mayoral Election	2004 Mayoral Election	2008 Mayoral Election
Income				
Median Equivalised Household Income (£)	0.51	0.47	-0.22	-0.44
Employment Rate				
% of people aged 16-74 Employed	0.50	0.59	-0.36	-0.63
% of people aged 16-74 who have never worked	-0.60	-0.69	0.56	0.74
Unemployment				
% Unemployed (working Pop)	-0.73	-0.66	0.57	0.76
Key Benefits				
% of working age population claiming key benefits	-0.78	-0.67	0.47	0.62
Qualifications				
% aged 16 - 74 with: Highest qualification attained level 4/5	0.16	0.03	0.24	0.05
% aged 16 -74 with: No qualifications	-0.45	-0.36	0.04	0.29
Social Grade				
AB Higher and intermediate managerial/administrative/professional	0.54	0.46	-0.17	-0.39
C1 Supervisory, clerical, junior managerial/administrative/professional	0.55	0.56	-0.34	-0.54
C2 Skilled manual workers	-0.30	-0.18	-0.08	0.09
D Semi-skilled and unskilled manual workers	-0.67	-0.63	0.38	0.59
E On state benefit, unemployed, lowest grade workers	-0.51	-0.51	0.25	0.48
Crime				
Incidence of Crime per thousand population	-0.06	-0.12	0.11	0.13
Indices of Deprivation				
Average Score	-0.72	-0.77	0.57	0.75

Red Values = Correlation coefficient is greater than +/- 0.5

Blue Values = Correlation coefficient is between +/- 0.3 and 0.5

Table 6: Summary Table for Conservative and Labour Parties (Assembly Votes)

Variables:	Conservative Party		Labour Party	
	2004 Assembly Election	2008 Assembly Election	2004 Assembly Election	2008 Assembly Election
Age				
Mean Age	0.72	0.77	-0.67	-0.75
Life Expectancy				
Life Expectancy Male	0.68	0.68	-0.56	-0.60
Life Expectancy Female	0.53	0.52	-0.40	-0.43
Religion:				
% Christian	0.32	0.43	-0.48	-0.60
% Buddhist	-0.07	-0.14	0.18	0.19
% Hindu	0.01	-0.06	0.34	0.35
% Jewish	0.34	0.29	-0.14	-0.14
% Muslim	-0.39	-0.50	0.34	0.57
% Sikh	-0.16	-0.14	0.39	0.32
% Other religions	0.13	0.07	0.13	0.13
% No religion	-0.21	-0.16	-0.11	-0.15
% Religion not stated	-0.30	-0.33	0.28	0.26
Ethnic Group				
<i>White:</i>				
British	0.43	0.56	-0.69	-0.78
Irish	-0.17	-0.22	0.27	0.25
Other White	0.22	0.14	-0.07	-0.07
<i>Mixed:</i>				
White and Black Caribbean	-0.62	-0.65	0.63	0.63
White and Black African	-0.56	-0.61	0.61	0.63
White and Asian	0.13	0.07	0.08	0.08
Other Mixed	-0.24	-0.31	0.38	0.39
<i>Asian or Asian British:</i>				
Indian	-0.07	-0.11	0.42	0.40
Pakistani	-0.27	-0.32	0.37	0.48
Bangladeshi	-0.21	-0.30	0.00	0.22
Other Asian	-0.09	-0.16	0.41	0.43
<i>Black or British:</i>				
Caribbean	-0.57	-0.62	0.70	0.70
African	-0.62	-0.66	0.68	0.69
Other Black	-0.60	-0.64	0.69	0.68
<i>Chinese or other ethnic group:</i>				
Chinese	0.02	-0.03	0.05	0.09
Other ethnic group	0.05	-0.03	0.15	0.14
Cars				
% With No cars	-0.53	-0.60	0.43	0.52
% With 2 or more cars	0.58	0.64	-0.47	-0.54
Tenure				
<i>Owner Occupied:</i>				
Owns outright	0.72	0.75	-0.55	-0.61
Owns with a mortgage or loan	0.28	0.36	-0.27	-0.33
Shared ownership	-0.39	-0.39	0.37	0.37
<i>Rented from:</i>				
Council (local authority)	-0.60	-0.61	0.43	0.48
Housing Association / Registered Social Landlord	-0.32	-0.35	0.28	0.31
Private landlord or letting agency	0.05	-0.03	0.03	0.08
Other	0.22	0.14	-0.05	-0.03

Variables:	Conservative Party		Labour Party	
	2004 Assembly Election	2008 Assembly Election	2004 Assembly Election	2008 Assembly Election
Income				
Median Equivalised Household Income (£)	0.56	0.55	-0.58	-0.60
Employment Rate				
% of people aged 16-74 Employed	0.51	0.59	-0.52	-0.64
% of people aged 16-74 who have never worked	-0.60	-0.66	0.71	0.79
Unemployment				
% Unemployed (working Pop)	-0.74	-0.79	0.67	0.75
Key Benefits				
% of working age population claiming key benefits	-0.70	-0.72	0.64	0.69
Qualifications				
% aged 16 - 74 with: Highest qualification attained level 4/5	0.23	0.16	-0.15	-0.14
% aged 16 -74 with: No qualifications	-0.52	-0.49	0.38	0.42
Social Grade				
AB Higher and intermediate managerial/administrative/professional	0.60	0.57	-0.52	-0.54
C1 Supervisory, clerical, junior managerial/administrative/professional	0.56	0.60	-0.49	-0.56
C2 Skilled manual workers	-0.37	-0.30	0.30	0.29
D Semi-skilled and unskilled manual workers	-0.71	-0.71	0.69	0.72
E On state benefit, unemployed, lowest grade workers	-0.55	-0.58	0.41	0.49
Crime				
Incidence of Crime per thousand population	-0.04	-0.10	0.10	0.11
Indices of Deprivation				
Average Score	-0.74	-0.78	0.64	0.73

Red Values = Correlation coefficient is greater than +/- 0.5

Blue Values = Correlation coefficient is between +/- 0.3 and 0.5

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