

8 Correlation analysis

Introduction

A correlation analysis has been undertaken to illustrate the extent of association at the SLA level between the indicators of socioeconomic status, health status and use of services.

Description

Correlation is the degree to which one variable is statistically associated with another. The correlation coefficient is a measure of the strength of this association. When high values for one variable are matched by high values for the other (or when low values are matched by low values), then they are positively correlated. Where the interdependence is inverse (i.e. high values for one are matched by low values for the other), the two variables are negatively correlated.

Methods

The Pearson product-moment correlation (r) has been used in this analysis to indicate the degree of correlation between pairs of variables. Pearson correlation coefficients range from +1 (complete positive correlation) through 0 (complete lack of correlation) to -1 (complete negative correlation). As a general rule, correlations of plus or minus 0.50 or above are considered to be of meaningful statistical significance (referred to in the text as 'strong'). Correlations of plus or minus 0.71 or above are of substantial statistical significance, because this higher value represents at least 50 per cent shared variation (r^2 greater than or equal to 0.5): these are referred to as being 'very strong' correlations.

Correlation coefficients were calculated by comparing the value (expressed as a percentage or as a standardised ratio) for each variable in each SLA with the value of each of the other variables. Correlation coefficients are generally referred to as being, for example, 'a correlation of low income families with the *paired* variable of hospital admissions of females'. However, to promote ease of reading where many correlation coefficients are quoted in the text, the word 'paired' has been omitted. For similar reasons the symbol used to indicate a correlation coefficient (r) has been omitted.

The results of the correlation analysis, which was undertaken separately for Adelaide and country South Australia, are shown in the following tables: coefficients from 0.5 to 0.7 and from 0.71 to 1 (both positive and negative) are highlighted in the tables, and are referred to in the individual map commentaries, where appropriate.

When discussing the results of the correlation analysis in the text, mention is often made of 'the indicators of socioeconomic disadvantage'. This reference is to variables such as those for single parent families, unemployed people, Indigenous people and housing authority rented dwellings. References to 'high socioeconomic status' reflect the variables for high income families, female labour force participation and managers and administrators and professionals.

The associations discussed in the text are, in general, limited to the strongest associations; this approach is largely a response to the limited space available for comment. The extent of any association with the other variables analysed can be ascertained from an examination of the correlation matrices: Tables 8.1 and 8.2 for correlations at the SLA level, and Tables A12 and A13 for correlations at the BoD area level (for Burden of Disease estimates and infant mortality).

Results

Metropolitan regions

There were notable correlations at the SLA level between the indicators of socioeconomic disadvantage and a number of the indicators of health status. The strongest of these were with low birthweight, perinatal risk factor scores, termination of pregnancy, smoking during pregnancy, premature deaths of males and females, and avoidable mortality (Table 8.1).

Similarly strong associations were also evident in the correlation analysis with a majority of the indicators of use of services.

A number of the indicators of socioeconomic disadvantage are also highly correlated, supporting the associations seen earlier in the atlas. For example, the very strong inverse correlation between areas with high rates of jobless families and those with high rates of female labour force participation is an example of the variation in population characteristics between SLAs across the metropolitan regions. Another is the very strong (positive) correlation between areas with high proportions of jobless families and people receiving the Disability Support Pension. Responses to the Census question on Internet use at home provide an example of how strong an indicator this can be, with a very strong (positive) correlation with high income families and a very strong inverse correlation with low income families.

Country South Australia

As noted in Chapter 2, SLAs in non-metropolitan areas range in size from 18.4 square kilometres in Unincorporated Yorke to 671,466 square kilometres in Unincorporated Far North in country South Australia. They also range from sparsely populated rural and remote areas to large country towns: from 17 people in Unincorporated Lincoln to 23,600 people in Mount Gambier. Despite these wide variations, the correlation analysis has been produced, and the results are presented in Table 8.2.

It is clear from the matrix of correlation coefficients that there are substantially fewer correlations of significance at the SLA level in country South Australia than was the case in the metropolitan regions. This is, in part, a result of the number of SLAs with relatively small numbers of cases (population, deaths, hospital admissions, etc.), which reduces the strength of the analysis.

As was the case for the metropolitan regions, a number of the indicators of socioeconomic disadvantage are highly correlated. For example, the very strong inverse correlation between areas with high rates of jobless families and those with high rates of female labour force participation shows the variation in population characteristics between SLAs across the State. Another is the (positive) correlation between areas with high proportions of single parent families and of dwellings without a motor vehicle; and between high proportions of jobless families and people receiving the Disability Support Pension. Responses to the Census question on Internet use at home provides an example of how strong an indicator this can be, with a very strong (positive) correlation with high income families and a very strong inverse correlation with low income families.

For the indicators of health status, of note is the very strong inverse correlation between incidence of lung cancer and high rates of educational participation at age 16. Avoidable mortality was very strongly correlated with high proportions of the Indigenous population at the SLA level.

The indicators of health service use were only weakly correlated with socioeconomic disadvantage.

Table 8.1: Correlation matrix for SLAs in the metropolitan regions

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	V35	V36	V37	V38	V39	V40	
V1	1.00	0.82	0.03	-0.68	0.87	0.62	0.42	-0.54	0.50	0.44	0.78	-0.73	-0.62	-0.53	-0.75	-0.63	-0.70	0.52	-0.11	-0.49	0.02	0.34	-0.03	-0.28	-0.46	-0.61	0.68	0.30	0.72	0.39	0.58	0.67	0.55	0.20	0.45	0.66	0.03	-0.13	0.35	0.04	V1
V2	0.82	1.00	-0.04	-0.79	0.81	0.29	0.08	-0.24	0.17	0.13	0.53	-0.49	-0.34	-0.24	-0.61	-0.42	-0.46	0.17	-0.30	-0.73	-0.23	0.03	-0.39	-0.66	-0.09	-0.27	0.42	-0.04	0.50	0.05	0.32	0.40	0.34	-0.10	0.12	0.45	0.11	-0.21	0.10	0.17	V2
V3	0.03	-0.04	1.00	-0.45	-0.14	0.06	-0.21	0.20	0.03	0.11	-0.01	0.12	-0.11	-0.32	0.02	0.16	-0.09	0.06	-0.16	0.41	-0.10	-0.06	0.28	0.03	0.18	0.03	-0.08	-0.13	-0.05	0.01	-0.08	0.07	0.04	0.06	0.05	-0.03	-0.40	0.04	-0.31	-0.55	V3
V4	-0.68	-0.79	-0.45	1.00	-0.53	-0.11	0.17	0.00	-0.01	0.00	-0.34	0.33	0.18	0.25	0.45	0.19	0.38	-0.07	0.32	0.40	0.23	0.16	0.26	0.66	-0.10	0.09	-0.39	0.21	-0.27	0.09	-0.15	-0.26	-0.17	0.10	-0.09	-0.32	0.00	0.16	0.05	0.12	V4
V5	0.87	0.81	-0.14	-0.53	1.00	0.62	0.49	-0.59	0.56	0.53	0.77	-0.68	-0.67	-0.52	-0.75	-0.64	-0.70	0.59	-0.16	-0.55	-0.03	0.43	-0.10	-0.23	-0.44	-0.62	0.57	0.38	0.79	0.48	0.65	0.63	0.53	0.25	0.45	0.69	-0.11	-0.10	0.34	0.07	V5
V6	0.62	0.29	0.06	-0.11	0.62	1.00	0.86	-0.85	0.94	0.86	0.86	-0.71	-0.91	-0.78	-0.71	-0.69	-0.74	0.89	0.08	-0.10	0.22	0.84	0.40	0.42	-0.79	-0.92	0.55	0.79	0.86	0.84	0.82	0.69	0.78	0.62	0.75	0.73	-0.37	-0.06	0.44	-0.17	V6
V7	0.42	0.08	-0.21	0.17	0.49	0.86	1.00	-0.96	0.95	0.84	0.82	-0.73	-0.88	-0.74	-0.67	-0.75	-0.73	0.84	0.35	0.03	0.46	0.86	0.48	0.56	-0.95	-0.94	0.52	0.92	0.82	0.89	0.89	0.66	0.64	0.71	0.77	0.75	-0.26	0.09	0.67	-0.13	V7
V8	-0.54	-0.24	0.20	0.00	-0.59	-0.85	-0.96	1.00	-0.92	-0.79	-0.90	0.86	0.89	0.77	0.79	0.82	0.80	-0.81	-0.27	0.12	-0.39	-0.78	-0.40	-0.37	0.95	0.95	-0.63	-0.86	-0.86	-0.84	-0.93	-0.67	-0.69	-0.64	-0.76	-0.83	0.20	-0.05	-0.68	0.08	V8
V9	0.50	0.17	0.03	-0.01	0.56	0.94	0.95	-0.92	1.00	0.92	0.87	-0.72	-0.96	-0.85	-0.71	-0.73	-0.79	0.91	0.24	0.05	0.39	0.89	0.50	0.53	-0.89	-0.97	0.50	0.89	0.87	0.93	0.90	0.72	0.72	0.76	0.83	0.79	-0.41	0.02	0.57	-0.28	V9
V10	0.44	0.13	0.11	0.00	0.53	0.86	0.84	-0.79	0.92	1.00	0.78	-0.58	-0.91	-0.86	-0.66	-0.66	-0.78	0.87	0.13	0.11	0.30	0.85	0.64	0.59	-0.78	-0.88	0.44	0.89	0.85	0.96	0.84	0.72	0.66	0.81	0.83	0.77	-0.56	0.09	0.51	-0.40	V10
V11	0.78	0.53	-0.01	-0.34	0.77	0.86	0.82	-0.90	0.87	0.78	1.00	-0.89	-0.94	-0.83	-0.89	-0.81	-0.89	0.82	0.13	-0.25	0.29	0.70	0.30	0.15	-0.85	-0.94	0.68	0.73	0.93	0.78	0.90	0.76	0.75	0.61	0.76	0.90	-0.20	0.03	0.56	-0.15	V11
V12	-0.73	-0.49	0.12	0.33	-0.68	-0.71	-0.73	0.86	-0.72	-0.58	-0.89	1.00	0.76	0.69	0.90	0.83	0.82	-0.66	-0.09	0.33	-0.20	-0.56	-0.15	-0.01	0.79	0.81	-0.76	-0.65	-0.83	-0.65	-0.84	-0.64	-0.65	-0.46	-0.67	-0.86	-0.05	-0.06	-0.61	-0.03	V12
V13	-0.62	-0.34	-0.11	0.18	-0.67	-0.91	-0.88	0.89	-0.96	-0.91	-0.94	0.76	1.00	0.91	0.80	0.76	0.85	-0.89	-0.16	0.05	-0.32	-0.82	-0.46	-0.37	0.86	0.96	-0.52	-0.83	-0.91	-0.89	-0.90	-0.76	-0.73	-0.71	-0.80	-0.86	0.42	-0.06	-0.54	0.32	V13
V14	-0.53	-0.24	-0.32	0.25	-0.52	-0.78	-0.74	0.77	-0.85	-0.86	-0.83	0.69	0.91	1.00	0.76	0.71	0.81	-0.83	-0.03	-0.06	-0.19	-0.72	-0.55	-0.38	0.76	0.84	-0.49	-0.76	-0.82	-0.83	-0.81	-0.63	-0.63	-0.67	-0.77	-0.83	0.48	-0.25	-0.46	0.51	V14
V15	-0.75	-0.61	-0.02	0.45	-0.75	-0.71	-0.67	0.79	-0.71	-0.66	-0.89	0.90	0.80	0.76	1.00	0.83	0.86	-0.66	0.16	0.41	0.00	-0.54	-0.18	0.06	0.70	0.77	-0.67	-0.63	-0.90	-0.68	-0.85	-0.67	-0.66	-0.48	-0.67	-0.90	0.17	-0.08	-0.54	0.02	V15
V16	-0.63	-0.42	0.16	0.19	-0.64	-0.69	-0.75	0.82	-0.73	-0.66	-0.81	0.83	0.76	0.71	0.83	1.00	0.80	-0.69	-0.04	0.27	-0.16	-0.67	-0.26	-0.15	0.76	0.79	-0.64	-0.73	-0.83	-0.70	-0.85	-0.64	-0.69	-0.49	-0.69	-0.83	0.15	-0.13	-0.62	0.11	V16
V17	-0.70	-0.46	-0.09	0.38	-0.70	-0.74	-0.73	0.80	-0.79	-0.78	-0.89	0.82	0.85	0.81	0.86	0.80	1.00	-0.75	-0.11	0.08	-0.29	-0.61	-0.44	-0.15	0.77	0.84	-0.64	-0.73	-0.88	-0.79	-0.88	-0.73	-0.67	-0.67	-0.78	-0.88	0.27	-0.11	-0.56	0.28	V17
V18	0.52	0.17	0.06	-0.07	0.59	0.89	0.84	-0.81	0.91	0.87	0.82	-0.66	-0.89	-0.83	-0.66	-0.69	-0.75	1.00	0.14	0.04	0.28	0.87	0.47	0.52	-0.79	-0.89	0.57	0.85	0.84	0.88	0.84	0.63	0.63	0.69	0.78	0.78	-0.44	0.16	0.49	-0.35	V18
V19	-0.11	-0.30	-0.16	0.32	-0.16	0.08	0.35	-0.27	0.24	0.13	0.13	-0.09	-0.16	-0.03	0.16	-0.04	-0.11	0.14	1.00	0.53	0.94	0.24	0.27	0.42	-0.40	-0.30	0.06	0.29	-0.01	0.22	0.21	0.18	-0.08	0.39	0.28	0.00	0.23	0.00	0.39	-0.21	V19
V20	-0.49	-0.73	0.41	0.40	-0.55	-0.10	0.03	0.12	0.05	0.11	-0.25	0.33	0.05	-0.06	0.41	0.27	0.08	0.04	0.53	1.00	0.54	0.09	0.58	0.65	-0.05	0.02	-0.27	0.14	-0.31	0.15	-0.12	-0.08	-0.22	0.33	0.12	-0.26	-0.19	0.22	0.02	-0.53	V20
V21	0.02	-0.23	-0.10	0.23	-0.03	0.22	0.46	-0.39	0.39	0.30	0.29	-0.20	-0.32	-0.19	0.00	-0.16	-0.29	0.28	0.94	0.54	1.00	0.36	0.40	0.48	-0.53	-0.46	0.14	0.41	0.13	0.37	0.35	0.31	0.07	0.56	0.45	0.15	0.12	0.06	0.45	-0.30	V21
V22	0.34	0.03	-0.06	0.16	0.43	0.84	0.86	-0.78	0.89	0.85	0.70	-0.56	-0.82	-0.72	-0.54	-0.67	-0.61	0.87	0.24	0.09	0.36	1.00	0.41	0.66	-0.77	-0.86	0.44	0.89	0.75	0.88	0.77	0.60	0.62	0.69	0.74	0.63	-0.38	0.10	0.47	-0.29	V22
V23	-0.03	-0.39	0.28	0.26	-0.10	0.40	0.48	-0.40	0.50	0.64	0.30	-0.15	-0.46	-0.55	-0.18	-0.26	-0.44	0.47	0.27	0.58	0.40	0.41	1.00	0.71	-0.53	-0.46	0.18	0.60	0.32	0.64	0.41	0.30	0.28	0.71	0.61	0.36	-0.43	0.21	0.36	-0.51	V23
V24	-0.28	-0.66	0.03	0.66	-0.23	0.42	0.56	-0.37	0.53	0.59	0.15	-0.01	-0.37	-0.38	0.06	-0.15	-0.15	0.52	0.42	0.65	0.48	0.66	0.71	1.00	-0.50	-0.44	0.00	0.66	0.20	0.64	0.32	0.19	0.20	0.62	0.48	0.13	-0.38	0.21	0.26	-0.38	V24
V25	-0.46	-0.09	0.18	-0.10	-0.44	-0.79	-0.95	0.95	-0.89	-0.78	-0.85	0.79	0.86	0.76	0.70	0.76	0.77	-0.79	-0.40	-0.05	-0.53	-0.77	-0.53	-0.50	1.00	0.93	-0.56	-0.87	-0.78	-0.84	-0.88	-0.64	-0.63	-0.74	-0.80	-0.80	0.17	-0.11	-0.72	0.17	V25
V26	-0.61	-0.27	0.03	0.09	-0.62	-0.92	-0.94	0.95	-0.97	-0.88	-0.94	0.81	0.96	0.84	0.77	0.79	0.84	-0.89	-0.30	0.02	-0.46	-0.86	-0.46	-0.44	0.93	1.00	-0.60	-0.87	-0.89	-0.90	-0.92	-0.75	-0.73	-0.75	-0.84	-0.84	0.28	-0.07	-0.62	0.24	V26
V27	0.68	0.42	-0.08	-0.39	0.57	0.55	0.52	-0.63	0.50	0.44	0.68	-0.76	-0.52	-0.49	-0.67	-0.64	-0.64	0.57	0.06	-0.27	0.14	0.44	0.18	0.00	-0.56	-0.60	1.00	0.52	0.64	0.49	0.63	0.42	0.39	0.34	0.56	0.65	0.00	0.06	0.45	-0.02	V27
V28	0.30	-0.04	-0.13	0.21	0.38	0.79	0.92	-0.86	0.89	0.89	0.73	-0.65	-0.83	-0.76	-0.63	-0.73	-0.73	0.85	0.29	0.14	0.41	0.89	0.60	0.66	-0.87	-0.87	0.52	1.00	0.80	0.95	0.88	0.64	0.62	0.79	0.83	0.76	-0.39	0.19	0.62	-0.31	V28
V29	0.72	0.50	-0.05	-0.27	0.79	0.86	0.82	-0.86	0.87	0.85	0.93	-0.83	-0.91	-0.82	-0.90	-0.83	-0.88	0.84	-0.01	-0.31	0.13	0.75	0.32	0.20	-0.78	-0.89	0.64	0.80	1.00	0.85	0.94	0.76	0.74	0.62	0.77	0.91	-0.33	0.03	0.51	-0.13	V29
V30	0.39	0.05	0.01	0.09	0.48	0.84	0.89	-0.84	0.93	0.96	0.78	-0.65	-0.89	-0.83	-0.68	-0.70	-0.79	0.88	0.22	0.15	0.37	0.88	0.64	0.64	-0.84	-0.90	0.49	0.95	0.85	1.00	0.89	0.69	0.65	0.84	0.86	0.79	-0.47	0.14	0.57	-0.35	V30
V31	0.58	0.32	-0.08	-0.15	0.65	0.82	0.89	-0.93	0.90	0.84	0.90	-0.84	-0.90	-0.81	-0.85	-0.85	-0.88	0.84	0.21	-0.12	0.35	0.77	0.41	0.32	-0.88	-0.92	0.63	0.88	0.94	0.89	1.00	0.72	0.68	0.72	0.83	0.90	-0.31	0.06	0.64	-0.22	V31
V32	0.67	0.40	0.07	-0.26	0.63	0.69	0.66	-0.67	0.72	0.72	0.76	-0.64	-0.76	-0.63	-0.67	-0.64	-0.73	0.63	0.18	-0.08	0.31	0.60	0.30	0.19	-0.64																

Table 8.1: Correlation matrix for SLAs in the metropolitan regions ...cont

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	V35	V36	V37	V38	V39	V40	
V41	-0.05	-0.17	0.15	0.01	-0.08	0.14	0.00	0.01	0.04	0.04	-0.04	0.01	0.02	-0.05	0.03	0.01	0.06	0.20	-0.27	0.08	-0.28	0.14	0.05	0.17	0.05	0.00	0.33	0.08	-0.04	0.08	-0.06	-0.22	0.11	-0.02	0.01	-0.03	-0.32	0.04	-0.07	-0.11	V41
V42	0.54	0.24	0.33	-0.38	0.40	0.65	0.46	-0.52	0.59	0.59	0.64	-0.62	-0.62	-0.66	-0.61	-0.54	-0.67	0.67	-0.09	0.02	0.05	0.52	0.43	0.21	-0.52	-0.61	0.68	0.56	0.62	0.61	0.57	0.47	0.64	0.53	0.65	0.67	-0.33	0.08	0.29	-0.36	V42
V43	-0.37	-0.35	-0.02	0.32	-0.35	-0.19	-0.30	0.36	-0.30	-0.33	-0.42	0.36	0.39	0.37	0.39	0.33	0.47	-0.17	-0.34	0.04	-0.42	-0.10	-0.25	0.08	0.37	0.38	-0.21	-0.22	-0.37	-0.28	-0.41	-0.47	-0.12	-0.37	-0.43	-0.42	-0.05	-0.04	-0.33	0.16	V43
V44	-0.02	0.08	0.12	-0.26	-0.02	-0.23	-0.32	0.26	-0.30	-0.30	-0.20	0.12	0.25	0.16	0.11	0.17	0.19	-0.15	-0.29	-0.11	-0.35	-0.31	-0.24	-0.34	0.34	0.29	0.16	-0.31	-0.22	-0.30	-0.27	-0.30	-0.09	-0.29	-0.26	-0.14	-0.07	0.18	-0.23	0.03	V44
V45	0.26	-0.08	0.07	0.18	0.31	0.73	0.77	-0.68	0.80	0.79	0.63	-0.43	0.75	-0.68	-0.40	-0.52	-0.61	0.73	0.34	0.31	0.50	0.75	0.66	0.69	-0.75	-0.79	0.25	0.75	0.60	0.78	0.64	0.61	0.54	0.77	0.72	0.58	-0.34	0.17	0.48	-0.41	V45
V46	0.25	-0.07	-0.11	0.21	0.33	0.69	0.74	-0.66	0.73	0.72	0.57	-0.45	-0.68	-0.60	-0.47	-0.50	-0.53	0.72	0.11	0.04	0.22	0.69	0.53	0.57	-0.70	-0.69	0.31	0.75	0.64	0.71	0.66	0.50	0.44	0.61	0.62	0.59	-0.33	0.11	0.43	-0.19	V46
V47	0.27	-0.13	0.12	0.16	0.26	0.80	0.80	-0.72	0.84	0.81	0.65	-0.47	0.78	-0.73	-0.43	-0.50	-0.60	0.81	0.31	0.30	0.46	0.78	0.66	0.71	-0.78	-0.81	0.34	0.79	0.61	0.80	0.67	0.57	0.56	0.75	0.76	0.57	-0.45	0.13	0.45	-0.42	V47
V48	0.33	0.18	-0.14	-0.09	0.39	0.54	0.60	-0.61	0.61	0.57	0.59	-0.56	-0.60	-0.53	-0.54	-0.56	-0.60	0.58	0.31	0.02	0.47	0.58	0.30	0.27	-0.61	-0.66	0.44	0.66	0.58	0.65	0.69	0.45	0.43	0.62	0.59	0.60	-0.09	0.09	0.54	-0.27	V48
V49	0.14	-0.21	0.07	0.31	0.19	0.76	0.75	-0.65	0.80	0.83	0.52	-0.38	-0.69	-0.67	-0.39	-0.51	-0.49	0.74	0.12	0.24	0.23	0.83	0.61	0.77	-0.66	-0.71	0.24	0.83	0.61	0.84	0.64	0.51	0.64	0.72	0.72	0.51	-0.53	0.09	0.31	-0.38	V49
V50	0.32	0.14	-0.30	0.05	0.44	0.64	0.75	-0.78	0.69	0.61	0.64	-0.73	-0.63	-0.54	-0.70	-0.71	-0.64	0.62	0.01	-0.18	0.12	0.63	0.25	0.27	-0.68	-0.68	0.54	0.77	0.70	0.70	0.77	0.47	0.64	0.56	0.65	0.73	-0.18	0.12	0.55	-0.04	V50
V51	0.35	0.03	0.32	-0.04	0.42	0.83	0.77	-0.71	0.89	0.92	0.70	-0.51	-0.88	-0.89	-0.57	-0.60	-0.70	0.88	0.08	0.23	0.22	0.86	0.59	0.61	-0.69	-0.82	0.37	0.83	0.75	0.88	0.75	0.61	0.63	0.72	0.75	0.69	-0.64	0.13	0.37	-0.54	V51
V52	0.54	0.17	0.00	-0.04	0.51	0.77	0.83	-0.78	0.84	0.81	0.78	-0.65	-0.84	-0.76	-0.61	-0.67	-0.68	0.84	0.35	0.02	0.43	0.80	0.48	0.49	-0.82	-0.86	0.57	0.81	0.80	0.81	0.80	0.73	0.51	0.66	0.76	0.74	-0.28	0.14	0.56	-0.25	V52
V53	0.35	0.08	-0.39	0.24	0.30	0.58	0.63	-0.61	0.53	0.46	0.53	-0.53	-0.47	-0.28	-0.43	-0.51	-0.37	0.48	0.21	-0.15	0.29	0.52	0.29	0.37	-0.63	-0.60	0.48	0.57	0.51	0.54	0.48	0.45	0.49	0.41	0.46	0.44	0.13	0.07	0.46	0.27	V53
V54	-0.16	-0.26	-0.21	0.38	-0.07	0.26	0.26	-0.18	0.22	0.32	0.03	-0.02	-0.11	-0.07	-0.04	-0.13	-0.05	0.26	-0.07	0.11	-0.04	0.36	0.34	0.46	-0.14	-0.17	0.20	0.41	0.15	0.36	0.14	-0.02	0.23	0.33	0.31	0.07	-0.25	0.05	0.10	-0.06	V54
V55	0.01	0.08	-0.09	-0.03	-0.05	-0.10	-0.20	0.14	-0.26	-0.32	-0.19	0.03	0.27	0.24	0.13	0.13	0.24	-0.23	-0.26	-0.14	-0.31	-0.24	-0.33	-0.26	0.25	0.23	0.08	-0.26	-0.25	-0.30	-0.29	-0.26	-0.14	-0.52	-0.38	-0.26	0.16	0.03	-0.21	0.23	V55
V56	-0.11	-0.15	-0.06	0.16	-0.12	0.06	0.00	0.06	0.00	0.05	-0.06	0.15	0.03	0.08	0.10	0.17	0.10	0.07	-0.18	0.01	-0.11	0.05	0.10	0.16	0.00	0.03	-0.11	0.05	-0.07	0.04	-0.08	-0.04	-0.01	0.04	-0.09	-0.08	-0.12	-0.03	0.02	0.01	V56
V57	-0.68	-0.44	0.30	0.17	-0.65	-0.69	-0.76	0.81	-0.71	-0.66	-0.82	0.82	0.72	0.62	0.82	0.81	0.77	-0.67	-0.14	0.34	-0.26	-0.60	-0.30	-0.14	0.78	0.79	-0.70	-0.73	-0.85	-0.71	-0.83	-0.70	-0.61	-0.55	-0.71	-0.84	0.04	-0.05	-0.64	-0.07	V57
V58	0.27	0.02	-0.03	0.13	0.33	0.55	0.58	-0.52	0.58	0.65	0.46	-0.37	-0.56	-0.51	-0.45	-0.49	-0.49	0.50	-0.10	0.00	0.00	0.51	0.47	0.37	-0.48	-0.52	0.22	0.59	0.55	0.61	0.51	0.48	0.54	0.46	0.47	0.49	-0.41	0.18	0.43	-0.07	V58
V59	-0.33	-0.46	-0.01	0.39	-0.32	0.10	0.11	-0.07	0.06	0.06	-0.13	0.01	0.05	0.05	0.08	0.09	0.10	0.04	-0.19	0.15	-0.20	0.08	0.25	0.33	-0.07	0.03	-0.03	0.17	-0.05	0.13	-0.02	-0.20	0.12	0.07	-0.01	-0.02	-0.11	-0.03	-0.05	0.13	V59
V60	0.28	0.44	-0.07	-0.32	0.23	0.07	0.06	-0.14	0.03	-0.04	0.16	-0.30	-0.08	-0.05	-0.32	-0.32	-0.15	0.02	-0.15	-0.38	-0.19	0.10	-0.34	-0.34	-0.04	-0.09	0.18	0.04	0.20	0.00	0.19	0.17	0.13	-0.23	-0.09	0.18	0.09	-0.10	0.15	0.25	V60
V61	0.49	0.16	0.17	-0.17	0.41	0.68	0.72	-0.74	0.75	0.78	0.77	-0.68	-0.79	-0.82	-0.66	-0.70	-0.81	0.76	0.36	0.20	0.48	0.67	0.61	0.41	-0.78	-0.81	0.64	0.78	0.73	0.80	0.80	0.61	0.50	0.72	0.79	0.75	-0.29	0.22	0.58	-0.50	V61
V62	0.54	0.26	0.32	-0.34	0.44	0.63	0.60	-0.65	0.69	0.72	0.76	-0.65	-0.77	-0.85	-0.67	-0.67	-0.82	0.72	0.19	0.14	0.33	0.57	0.55	0.28	-0.67	-0.75	0.63	0.66	0.70	0.72	0.72	0.57	0.55	0.65	0.72	0.76	-0.36	0.27	0.46	-0.59	V62
V63	0.50	0.31	0.26	-0.30	0.50	0.74	0.67	-0.72	0.77	0.79	0.76	-0.70	-0.82	-0.84	-0.80	-0.67	-0.79	0.68	-0.09	-0.07	0.05	0.63	0.47	0.24	-0.66	-0.75	0.51	0.74	0.81	0.79	0.80	0.61	0.67	0.63	0.70	0.80	-0.44	0.01	0.39	-0.36	V63
V64	0.55	0.30	0.38	-0.32	0.53	0.75	0.66	-0.70	0.79	0.86	0.79	-0.65	-0.86	-0.92	-0.77	-0.69	-0.83	0.75	-0.07	0.00	0.08	0.66	0.56	0.31	-0.66	-0.77	0.52	0.74	0.84	0.82	0.80	0.68	0.67	0.65	0.74	0.81	-0.55	0.09	0.36	-0.47	V64
V65	0.45	0.29	0.17	-0.27	0.46	0.68	0.64	-0.70	0.70	0.70	0.70	-0.69	-0.74	-0.75	-0.77	-0.62	-0.73	0.61	-0.09	-0.11	0.03	0.57	0.38	0.19	-0.62	-0.69	0.48	0.69	0.74	0.72	0.75	0.53	0.63	0.57	0.63	0.74	-0.35	-0.04	0.39	-0.28	V65
V66	0.47	0.14	-0.07	0.01	0.48	0.75	0.80	-0.79	0.80	0.80	0.77	-0.68	-0.77	-0.69	-0.65	-0.74	-0.77	0.78	0.30	0.12	0.47	0.77	0.54	0.50	-0.79	-0.85	0.61	0.85	0.77	0.86	0.81	0.69	0.64	0.74	0.82	0.71	-0.23	0.22	0.56	-0.29	V66
V67	0.46	0.13	-0.07	0.02	0.48	0.74	0.80	-0.78	0.79	0.79	0.77	-0.67	-0.76	-0.69	-0.64	-0.73	-0.76	0.79	0.32	0.13	0.48	0.77	0.53	0.51	-0.79	-0.85	0.61	0.85	0.76	0.86	0.81	0.69	0.63	0.74	0.82	0.71	-0.22	0.24	0.57	-0.30	V67
V68	-0.63	-0.54	0.21	0.39	-0.66	-0.51	-0.58	0.71	-0.56	-0.43	-0.74	0.85	0.61	0.53	0.79	0.71	0.71	-0.48	-0.03	0.38	-0.17	-0.36	-0.02	0.17	0.63	0.64	-0.56	-0.48	-0.69	-0.48	-0.74	-0.56	-0.51	-0.35	-0.50	-0.77	-0.09	-0.02	-0.60	-0.04	V68
V69	0.02	-0.28	0.08	0.32	0.01	0.43	0.44	-0.32	0.45	0.55	0.28	-0.09	-0.38	-0.36	-0.10	-0.27	-0.30	0.51	0.33	0.44	0.41	0.58	0.58	0.71	-0.40	-0.45	0.25	0.58	0.31	0.59	0.32	0.33	0.30	0.56	0.52	0.19	-0.32	0.25	0.17	-0.37	V69
V70	-0.58	-0.27	-0.20	0.26	-0.54	-0.75	-0.76	0.78	-0.83	-0.86	-0.84	0.72	0.87	0.87	0.76	0.75	0.91	-0.76	-0.18	-0.11	-0.39	-0.66	-0.65	-0.35	0.80	0.86	-0.54	-0.79	-0.82	-0.84	-0.86	-0.74	-0.67	-0.79	-0.83	-0.85	0.36	-0.15	-0.58	0.44	V70
V71	0.25	0.26	0.02	-0.18	0.34	0.17	0.23	-0.26	0.29	0.29	0.34	-0.25	-0.34	-0.30	-0.33	-0.35	-0.39	0.16	0.01	-0.08	0.11	0.16	0.18	-0.06	-0.25	-0.29	0.10	0.19	0.33	0.26	0.32	0.35	0.24	0.39	0.37	0.36	-0.05	-0.02	0.25	-0.22	V71
V72	0.62	0.32	0.10	-0.23	0.58	0.83	0.80	-0.84	0.87	0.78	0.88	-0.78	-0.89	-0.83	-0.76	-0.72	-0.81	0.75	0.18	-0.04	0.36	0.69	0.41	0.29	-0.82	-0.89	0.50														

Table 8.1: Correlation matrix for SLAs in the metropolitan regions ...cont

	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68	V69	V70	V71	V72	V73	V74	V75	V76	V77	V78	V79	V80	
V1	-0.05	0.54	-0.37	-0.02	0.26	0.25	0.27	0.33	0.14	0.32	0.35	0.54	0.35	-0.16	0.01	-0.11	-0.68	0.27	-0.33	0.28	0.49	0.54	0.50	0.55	0.45	0.47	0.46	-0.63	0.02	-0.58	0.25	0.62	-0.43	0.11	0.31	0.18	-0.03	-0.13	0.38	0.64	V1
V2	-0.17	0.24	-0.35	0.08	-0.08	-0.07	-0.13	0.18	-0.21	0.14	0.03	0.17	0.08	-0.26	0.08	-0.15	-0.44	0.02	-0.46	0.44	0.16	0.26	0.31	0.30	0.29	0.14	0.13	-0.54	-0.28	-0.27	0.26	0.32	-0.11	0.11	0.32	0.23	0.22	0.01	0.45	0.33	V2
V3	0.15	0.33	-0.02	0.12	0.07	-0.11	0.12	-0.14	0.07	-0.30	0.32	0.00	-0.39	-0.21	-0.09	-0.06	0.30	-0.03	-0.01	-0.07	0.17	0.32	0.26	0.38	0.17	-0.07	-0.07	0.21	0.08	-0.20	0.02	0.10	-0.10	0.02	0.03	-0.11	-0.08	0.18	0.20	0.10	V3
V4	0.01	-0.38	0.32	-0.26	0.18	0.21	0.16	-0.09	0.31	0.05	-0.04	-0.04	0.24	0.38	-0.03	0.16	0.17	0.13	0.39	-0.32	-0.17	-0.34	-0.30	-0.32	-0.27	0.01	0.02	0.39	0.32	0.26	-0.18	-0.23	0.09	-0.04	-0.23	-0.16	-0.21	-0.11	-0.44	-0.29	V4
V5	-0.08	0.40	-0.35	-0.02	0.31	0.33	0.26	0.39	0.19	0.44	0.42	0.51	0.30	-0.07	-0.05	-0.12	-0.65	0.33	-0.32	0.23	0.41	0.44	0.50	0.53	0.46	0.48	0.48	-0.66	0.01	-0.54	0.34	0.58	-0.32	0.21	0.40	0.16	0.04	-0.23	0.39	0.57	V5
V6	0.14	0.65	-0.19	-0.23	0.73	0.69	0.80	0.54	0.76	0.64	0.83	0.77	0.58	0.26	-0.10	0.06	-0.69	0.55	0.10	0.07	0.68	0.63	0.74	0.75	0.68	0.75	0.74	-0.51	0.43	-0.75	0.17	0.83	-0.73	0.14	0.18	-0.16	-0.49	-0.22	0.18	0.76	V6
V7	0.00	0.46	-0.30	-0.32	0.77	0.74	0.80	0.60	0.75	0.75	0.77	0.83	0.63	0.26	-0.20	0.00	-0.76	0.58	0.11	0.06	0.72	0.60	0.67	0.66	0.64	0.80	0.80	-0.58	0.44	-0.76	0.23	0.80	-0.64	0.23	0.22	-0.05	-0.45	-0.36	0.17	0.71	V7
V8	0.01	-0.52	0.36	0.26	-0.68	-0.66	-0.72	-0.61	-0.65	-0.78	-0.71	-0.78	-0.61	-0.18	0.14	0.06	0.81	-0.52	-0.07	-0.14	-0.74	-0.65	-0.72	-0.70	-0.70	-0.79	-0.78	0.71	-0.32	0.78	-0.26	-0.84	0.66	-0.24	-0.26	0.01	0.41	0.26	-0.28	-0.80	V8
V9	0.04	0.59	-0.30	-0.30	0.80	0.73	0.84	0.61	0.80	0.69	0.89	0.84	0.53	0.22	-0.26	0.00	-0.71	0.58	0.06	0.03	0.75	0.69	0.77	0.79	0.70	0.80	0.79	-0.56	0.45	-0.83	0.29	0.87	-0.67	0.28	0.30	-0.05	-0.44	-0.34	0.25	0.75	V9
V10	0.04	0.59	-0.33	-0.30	0.79	0.72	0.81	0.57	0.83	0.61	0.92	0.81	0.46	0.32	-0.32	0.05	-0.66	0.65	0.06	-0.04	0.78	0.72	0.79	0.86	0.70	0.80	0.79	-0.43	0.55	-0.86	0.29	0.78	-0.56	0.27	0.30	-0.09	-0.33	-0.42	0.22	0.68	V10
V11	-0.04	0.64	-0.42	-0.20	0.63	0.57	0.65	0.59	0.52	0.64	0.70	0.78	0.53	0.03	-0.19	-0.06	-0.82	0.46	-0.13	0.16	0.77	0.76	0.76	0.79	0.70	0.77	0.77	-0.74	0.28	-0.84	0.34	0.88	-0.62	0.27	0.37	0.08	-0.28	-0.28	0.43	0.82	V11
V12	0.01	-0.62	0.36	0.12	-0.43	-0.45	-0.47	-0.56	-0.38	-0.73	-0.51	-0.65	-0.53	-0.02	0.03	0.15	0.82	-0.37	0.01	-0.30	-0.68	-0.65	-0.70	-0.65	-0.69	-0.68	-0.67	0.85	-0.09	0.72	-0.25	-0.78	0.59	-0.18	-0.28	-0.12	0.26	0.13	-0.41	-0.86	V12
V13	0.02	-0.62	0.39	0.25	-0.75	-0.68	-0.78	-0.60	-0.69	-0.63	-0.88	-0.84	-0.47	-0.11	0.27	0.03	0.72	-0.56	0.05	-0.08	-0.79	-0.77	-0.82	-0.86	-0.74	-0.77	-0.76	0.61	-0.38	0.87	-0.34	-0.89	0.64	-0.30	-0.35	-0.02	0.35	0.35	-0.38	-0.77	V13
V14	-0.05	-0.66	0.37	0.16	-0.68	-0.60	-0.73	-0.53	-0.67	-0.54	-0.89	-0.76	-0.28	-0.07	0.24	0.08	0.62	-0.51	0.05	-0.05	-0.82	-0.85	-0.84	-0.92	-0.75	-0.69	-0.69	0.53	-0.36	0.87	-0.30	-0.83	0.61	-0.29	-0.31	0.05	0.35	0.26	-0.37	-0.76	V14
V15	0.03	-0.61	0.39	0.11	-0.40	-0.47	-0.43	-0.54	-0.39	-0.70	-0.57	-0.61	-0.43	-0.04	0.13	0.10	0.82	-0.45	0.08	-0.32	-0.66	-0.67	-0.80	-0.77	-0.77	-0.65	-0.64	0.79	-0.10	0.76	-0.33	-0.76	0.51	-0.24	-0.36	-0.08	0.16	0.11	-0.53	-0.84	V15
V16	0.01	-0.54	0.33	0.17	-0.52	-0.50	-0.50	-0.56	-0.51	-0.71	-0.60	-0.67	-0.51	-0.13	0.13	0.17	0.81	-0.49	0.09	-0.32	-0.70	-0.67	-0.67	-0.69	-0.62	-0.74	-0.73	0.71	-0.27	0.75	-0.35	-0.72	0.44	-0.30	-0.36	-0.13	0.13	0.22	-0.41	-0.79	V16
V17	0.06	-0.67	0.47	0.19	-0.61	-0.53	-0.60	-0.60	-0.49	-0.64	-0.70	-0.68	-0.37	-0.05	0.24	0.10	0.77	-0.49	0.10	-0.15	-0.81	-0.82	-0.79	-0.83	-0.73	-0.77	-0.76	0.71	-0.30	0.91	-0.39	-0.81	0.50	-0.31	-0.43	-0.11	0.16	0.30	-0.48	-0.80	V17
V18	0.20	0.67	-0.17	-0.15	0.73	0.72	0.81	0.58	0.74	0.62	0.88	0.84	0.48	0.26	-0.23	0.07	-0.67	0.50	0.04	0.02	0.76	0.72	0.68	0.75	0.61	0.78	0.79	-0.48	0.51	-0.76	0.16	0.75	-0.66	0.15	0.16	-0.15	-0.43	-0.33	0.13	0.72	V18
V19	-0.27	-0.09	-0.34	-0.29	0.34	0.11	0.31	0.31	0.12	0.01	0.08	0.35	0.21	-0.07	-0.26	-0.18	-0.14	-0.10	-0.19	-0.15	0.36	0.19	-0.09	-0.07	-0.09	0.30	0.32	-0.03	0.33	-0.18	0.01	0.18	-0.18	0.04	0.00	0.19	-0.21	-0.42	-0.17	0.01	V19
V20	0.08	0.02	0.04	-0.11	0.31	0.04	0.30	0.02	0.24	-0.18	0.23	0.02	-0.15	0.11	-0.14	0.01	0.34	0.00	0.15	-0.38	0.20	0.14	-0.07	0.00	-0.11	0.12	0.13	0.38	0.44	-0.11	-0.08	-0.04	-0.03	0.02	-0.11	-0.10	-0.22	-0.14	-0.28	-0.15	V20
V21	-0.28	0.05	-0.42	-0.35	0.50	0.22	0.46	0.47	0.23	0.12	0.22	0.43	0.29	-0.04	-0.31	-0.11	-0.26	0.00	-0.20	-0.19	0.48	0.33	0.05	0.08	0.03	0.47	0.48	-0.17	0.41	-0.39	0.11	0.36	-0.28	0.15	0.10	0.17	-0.23	-0.50	-0.05	0.16	V21
V22	0.14	0.52	-0.10	-0.31	0.75	0.69	0.78	0.58	0.83	0.63	0.86	0.80	0.52	0.36	-0.24	0.05	-0.60	0.51	0.08	0.10	0.67	0.57	0.63	0.66	0.57	0.77	0.77	-0.36	0.58	-0.66	0.16	0.69	-0.59	0.19	0.15	-0.09	-0.42	-0.39	0.04	0.64	V22
V23	0.05	0.43	-0.25	-0.24	0.66	0.53	0.66	0.30	0.61	0.25	0.59	0.48	0.29	0.34	-0.33	0.10	-0.30	0.47	0.25	-0.34	0.61	0.55	0.47	0.56	0.38	0.54	0.53	-0.02	0.58	-0.65	0.18	0.41	-0.26	0.23	0.17	-0.11	-0.19	-0.29	0.09	0.33	V23
V24	0.17	0.21	0.08	-0.34	0.69	0.57	0.71	0.27	0.77	0.27	0.61	0.49	0.37	0.46	-0.26	0.16	-0.14	0.37	0.33	-0.34	0.41	0.28	0.24	0.31	0.19	0.50	0.51	0.17	0.71	-0.35	-0.06	0.29	-0.35	0.06	-0.10	-0.27	-0.44	-0.33	-0.29	0.19	V24
V25	0.05	-0.52	0.37	0.34	-0.75	-0.70	-0.78	-0.61	-0.66	-0.68	-0.69	-0.82	-0.63	-0.14	0.25	0.00	0.78	-0.48	-0.07	-0.04	-0.78	-0.67	-0.66	-0.66	-0.62	-0.79	-0.79	0.63	-0.40	0.80	-0.25	-0.82	0.65	-0.24	-0.25	-0.03	0.41	0.36	-0.24	-0.74	V25
V26	0.00	-0.61	0.38	0.29	-0.79	-0.69	-0.81	-0.66	-0.71	-0.68	-0.82	-0.86	-0.60	-0.17	0.23	0.03	0.79	-0.52	0.03	-0.09	-0.81	-0.75	-0.75	-0.77	-0.69	-0.85	-0.85	0.64	-0.45	0.86	-0.29	-0.89	0.69	-0.27	-0.30	-0.01	0.41	0.37	-0.28	-0.79	V26
V27	0.33	0.68	-0.21	0.16	0.25	0.31	0.34	0.44	0.24	0.54	0.37	0.57	0.48	0.20	0.08	-0.11	-0.70	0.22	-0.03	0.18	0.64	0.63	0.51	0.52	0.48	0.61	0.61	-0.56	0.25	-0.54	0.10	0.50	-0.44	0.06	0.12	0.02	-0.17	-0.09	0.22	0.69	V27
V28	0.08	0.56	-0.22	-0.31	0.75	0.75	0.79	0.66	0.83	0.77	0.83	0.81	0.57	0.41	-0.26	0.05	-0.73	0.59	0.17	0.04	0.78	0.66	0.74	0.74	0.69	0.85	0.85	-0.48	0.58	-0.79	0.19	0.72	-0.59	0.21	0.18	-0.09	-0.41	-0.40	0.14	0.72	V28
V29	-0.04	0.62	-0.37	-0.22	0.60	0.64	0.61	0.58	0.61	0.70	0.75	0.80	0.51	0.15	-0.25	-0.07	-0.85	0.55	-0.05	0.20	0.73	0.70	0.81	0.84	0.74	0.77	0.76	-0.69	0.31	-0.82	0.33	0.79	-0.54	0.25	0.37	0.02	-0.21	-0.28	0.43	0.83	V29
V30	0.08	0.61	-0.28	-0.30	0.78	0.71	0.80	0.65	0.84	0.70	0.88	0.81	0.54	0.36	-0.30	0.04	-0.71	0.61	0.13	0.00	0.80	0.72	0.79	0.82	0.72	0.86	0.86	-0.48	0.59	-0.84	0.26	0.76	-0.58	0.25	0.26	-0.10	-0.38	-0.37	0.20	0.72	V30
V31	-0.06	0.57	-0.41	-0.27	0.64	0.66	0.67	0.69	0.64	0.77	0.75	0.80	0.48	0.14	-0.29	-0.08	-0.83	0.51	-0.02	0.19	0.80	0.72	0.80	0.80	0.75	0.81	0.81	-0.74	0.32	-0.86	0.32	0.81	-0.57	0.28	0.34	0.04	-0.27	-0.32	0.39	0.84	V31
V32	-0.22	0.47	-0.47	-0.30	0.61	0.50	0.57	0.45	0.51	0.47	0.61	0.73	0.45	-0.02	-0.26	-0.04	-0.70	0.48	-0.20	0.17	0.61	0.57	0.61	0.68	0.53	0.69	0.69	-0.56													

Table 8.1: Correlation matrix for SLAs in the metropolitan regions ...cont

	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68	V69	V70	V71	V72	V73	V74	V75	V76	V77	V78	V79	V80	
V41	1.00	0.44	0.61	0.61	-0.03	-0.02	0.12	-0.04	0.15	0.16	0.19	-0.06	0.03	0.39	0.40	0.24	0.14	0.08	0.43	-0.13	0.06	0.14	0.05	0.06	0.04	0.06	0.06	0.17	0.20	0.09	-0.29	-0.07	-0.19	-0.18	-0.35	-0.33	-0.26	0.28	-0.31	0.04	V41
V42	0.44	1.00	-0.01	0.14	0.44	0.33	0.50	0.42	0.47	0.48	0.63	0.52	0.38	0.26	-0.06	0.01	-0.51	0.39	0.25	0.07	0.65	0.73	0.67	0.70	0.61	0.61	0.60	-0.41	0.35	-0.69	0.13	0.57	-0.48	0.10	0.15	-0.04	-0.22	-0.06	0.27	0.71	V42
V43	0.61	-0.01	1.00	0.24	-0.33	-0.19	-0.25	-0.31	-0.05	-0.16	-0.16	-0.36	-0.11	0.19	0.36	0.48	0.46	-0.09	0.52	-0.06	-0.44	-0.41	-0.29	-0.33	-0.25	-0.34	-0.34	0.44	-0.04	0.51	-0.42	-0.46	0.10	-0.31	-0.47	-0.29	-0.14	0.37	-0.38	-0.25	V43
V44	0.61	0.14	0.24	1.00	-0.31	-0.37	-0.28	-0.16	-0.32	-0.04	-0.21	-0.27	-0.21	-0.04	0.30	-0.11	0.23	-0.15	0.14	-0.10	-0.18	-0.02	-0.18	-0.18	-0.17	-0.24	-0.24	0.08	-0.20	0.26	-0.17	-0.26	0.12	-0.16	-0.18	-0.06	0.04	0.26	-0.04	-0.18	V44
V45	-0.03	0.44	-0.33	-0.31	1.00	0.65	0.91	0.49	0.75	0.49	0.77	0.70	0.50	0.21	-0.38	0.03	-0.48	0.46	0.06	-0.20	0.61	0.60	0.52	0.60	0.44	0.74	0.74	-0.35	0.56	-0.73	0.51	0.76	-0.52	0.48	0.53	0.12	-0.31	-0.46	0.28	0.52	V45
V46	-0.02	0.33	-0.19	-0.37	0.65	1.00	0.81	0.35	0.74	0.51	0.68	0.69	0.46	0.25	-0.27	0.21	-0.54	0.51	0.12	-0.14	0.53	0.44	0.51	0.56	0.46	0.57	0.58	-0.28	0.43	-0.59	0.13	0.56	-0.63	0.11	0.15	-0.12	-0.44	-0.41	0.15	0.49	V46
V47	0.12	0.50	-0.25	-0.28	0.91	0.81	1.00	0.45	0.82	0.50	0.82	0.75	0.47	0.26	-0.23	0.12	-0.48	0.45	0.09	-0.20	0.68	0.62	0.59	0.65	0.52	0.70	0.71	-0.28	0.57	-0.72	0.15	0.77	-0.69	0.19	0.14	-0.15	-0.49	-0.38	0.02	0.58	V47
V48	-0.04	0.42	-0.31	-0.16	0.49	0.35	0.45	1.00	0.39	0.65	0.48	0.49	0.42	0.25	-0.21	0.00	-0.61	0.33	-0.01	0.12	0.63	0.53	0.57	0.46	0.61	0.67	0.67	-0.61	0.27	-0.65	0.19	0.60	-0.46	0.19	0.18	-0.03	-0.29	-0.38	0.23	0.58	V48
V49	0.15	0.47	-0.05	-0.32	0.75	0.74	0.82	0.39	1.00	0.59	0.84	0.65	0.45	0.44	-0.19	0.13	-0.44	0.59	0.25	-0.08	0.57	0.49	0.64	0.67	0.58	0.68	0.68	-0.18	0.62	-0.62	0.14	0.63	-0.54	0.18	0.12	-0.24	-0.51	-0.27	-0.02	0.52	V49
V50	0.16	0.48	-0.16	-0.04	0.49	0.51	0.50	0.65	0.59	1.00	0.56	0.46	0.50	0.43	-0.03	-0.04	-0.67	0.50	0.28	0.13	0.50	0.46	0.67	0.53	0.71	0.69	0.68	-0.71	0.21	-0.59	0.28	0.66	-0.44	0.27	0.27	-0.03	-0.29	-0.16	0.25	0.70	V50
V51	0.19	0.63	-0.16	-0.21	0.77	0.68	0.82	0.48	0.84	0.56	1.00	0.75	0.29	0.28	-0.23	0.06	-0.48	0.55	0.10	0.02	0.71	0.71	0.79	0.86	0.71	0.70	0.69	-0.34	0.52	-0.79	0.24	0.75	-0.58	0.25	0.23	-0.15	-0.41	-0.30	0.19	0.65	V51
V52	-0.06	0.52	-0.36	-0.27	0.70	0.69	0.75	0.49	0.65	0.46	0.75	1.00	0.56	0.06	-0.35	-0.04	-0.76	0.45	-0.12	0.08	0.75	0.67	0.62	0.71	0.53	0.71	0.72	-0.42	0.48	-0.74	0.14	0.69	-0.61	0.10	0.17	-0.02	-0.35	-0.44	0.20	0.67	V52
V53	0.03	0.38	-0.11	-0.21	0.50	0.46	0.47	0.42	0.45	0.50	0.29	0.56	1.00	0.39	-0.09	0.01	-0.70	0.44	0.13	0.03	0.36	0.27	0.32	0.28	0.33	0.67	0.67	-0.33	0.49	-0.43	0.11	0.46	-0.39	0.09	0.12	-0.04	-0.28	-0.15	0.10	0.50	V53
V54	0.39	0.26	0.19	-0.04	0.21	0.25	0.26	0.25	0.44	0.43	0.28	0.06	0.39	1.00	0.07	0.17	-0.17	0.32	0.29	-0.12	0.14	0.08	0.21	0.14	0.25	0.41	0.39	0.13	0.54	-0.12	0.01	0.06	-0.05	0.09	-0.04	-0.23	-0.17	-0.08	-0.29	0.14	V54
V55	0.40	-0.06	0.36	0.30	-0.38	-0.27	-0.23	-0.21	-0.19	-0.03	-0.23	-0.35	-0.09	0.07	1.00	0.14	0.29	-0.17	0.17	0.23	-0.20	-0.20	-0.16	-0.25	-0.09	-0.22	-0.23	0.05	-0.21	0.36	-0.47	-0.22	-0.19	-0.40	-0.50	-0.38	-0.29	0.55	-0.38	-0.17	V55
V56	0.24	0.01	0.48	-0.11	0.03	0.21	0.12	0.00	0.13	-0.04	0.06	-0.04	0.01	0.17	0.14	1.00	0.18	0.05	0.32	-0.13	-0.14	-0.18	0.01	-0.02	0.03	-0.09	-0.10	0.13	0.00	0.08	-0.19	-0.06	-0.11	-0.10	-0.23	-0.24	-0.19	0.08	-0.14	-0.09	V56
V57	0.14	-0.51	0.46	0.23	-0.48	-0.54	-0.48	-0.61	-0.44	-0.67	-0.48	-0.76	-0.70	-0.17	0.29	0.18	1.00	-0.49	0.13	-0.24	-0.68	-0.59	-0.61	-0.61	-0.58	-0.75	-0.74	0.69	-0.29	0.74	-0.27	-0.67	0.46	-0.19	-0.31	-0.10	0.16	0.34	-0.35	-0.73	V57
V58	0.08	0.39	-0.09	-0.15	0.46	0.51	0.45	0.33	0.59	0.50	0.55	0.45	0.44	0.32	-0.17	0.05	-0.49	1.00	0.22	-0.06	0.40	0.37	0.51	0.54	0.47	0.50	0.49	-0.28	0.32	-0.58	0.23	0.48	-0.30	0.21	0.24	-0.06	-0.18	-0.30	0.25	0.46	V58
V59	0.43	0.25	0.52	0.14	0.06	0.12	0.09	-0.01	0.25	0.28	0.10	-0.12	0.13	0.29	0.17	0.32	0.13	0.22	1.00	-0.15	-0.10	-0.13	0.11	0.01	0.16	0.00	-0.01	0.04	0.02	0.06	-0.23	-0.07	-0.13	-0.14	-0.25	-0.31	-0.17	0.32	-0.13	0.09	V59
V60	-0.13	0.07	-0.06	-0.10	-0.20	-0.14	-0.20	0.12	-0.08	0.13	0.02	0.08	0.03	-0.12	0.23	-0.13	-0.24	-0.06	-0.15	1.00	0.04	0.03	0.24	0.13	0.30	0.00	-0.01	-0.30	-0.25	-0.06	-0.09	0.03	-0.10	-0.13	-0.07	-0.05	-0.01	0.20	0.12	0.22	V60
V61	0.06	0.65	-0.44	-0.18	0.61	0.53	0.68	0.63	0.57	0.50	0.71	0.75	0.36	0.14	-0.20	-0.14	-0.68	0.40	-0.10	0.04	1.00	0.94	0.70	0.78	0.61	0.80	0.80	-0.46	0.54	-0.85	0.16	0.71	-0.61	0.16	0.16	0.00	-0.38	-0.37	0.20	0.69	V61
V62	0.14	0.73	-0.41	-0.02	0.60	0.44	0.62	0.53	0.49	0.46	0.71	0.67	0.27	0.08	-0.20	-0.18	-0.59	0.37	-0.13	0.03	0.94	1.00	0.72	0.82	0.62	0.74	0.74	-0.45	0.47	-0.84	0.26	0.71	-0.51	0.24	0.27	0.05	-0.27	-0.32	0.34	0.69	V62
V63	0.05	0.67	-0.29	-0.18	0.52	0.51	0.59	0.57	0.64	0.67	0.79	0.62	0.32	0.21	-0.16	0.01	-0.61	0.51	0.11	0.24	0.70	0.72	1.00	0.94	0.98	0.65	0.63	-0.56	0.27	-0.84	0.27	0.76	-0.56	0.22	0.29	-0.13	-0.33	-0.13	0.41	0.79	V63
V64	0.06	0.70	-0.33	-0.18	0.60	0.56	0.65	0.46	0.67	0.53	0.86	0.71	0.28	0.14	-0.25	-0.02	-0.61	0.54	0.01	0.13	0.78	0.82	0.94	1.00	0.84	0.68	0.67	-0.47	0.38	-0.88	0.31	0.76	-0.52	0.27	0.34	-0.07	-0.26	-0.20	0.43	0.77	V64
V65	0.04	0.61	-0.25	-0.17	0.44	0.46	0.52	0.61	0.58	0.71	0.71	0.53	0.33	0.25	-0.09	0.03	-0.58	0.47	0.16	0.30	0.61	0.62	0.98	0.84	1.00	0.59	0.57	-0.58	0.18	-0.76	0.23	0.72	-0.56	0.18	0.25	-0.15	-0.36	-0.08	0.38	0.76	V65
V66	0.06	0.61	-0.34	-0.24	0.74	0.57	0.70	0.67	0.68	0.69	0.70	0.71	0.67	0.41	-0.22	-0.09	-0.75	0.50	0.00	0.00	0.80	0.74	0.65	0.68	0.59	1.00	1.00	-0.50	0.73	-0.79	0.32	0.74	-0.50	0.30	0.33	0.02	-0.29	-0.30	0.21	0.75	V66
V67	0.06	0.60	-0.34	-0.24	0.74	0.58	0.71	0.67	0.68	0.68	0.69	0.72	0.67	0.39	-0.23	-0.10	-0.74	0.49	-0.01	-0.01	0.80	0.74	0.63	0.67	0.57	1.00	1.00	-0.50	0.73	-0.79	0.31	0.74	-0.49	0.30	0.32	0.02	-0.29	-0.30	0.20	0.74	V67
V68	0.17	-0.41	0.44	0.08	-0.35	-0.28	-0.28	-0.61	-0.18	-0.71	-0.34	-0.42	-0.33	0.13	0.05	0.13	0.69	-0.28	0.04	-0.30	-0.46	-0.45	-0.56	-0.47	-0.58	-0.50	-0.50	1.00	0.23	0.63	-0.40	-0.69	0.37	-0.30	-0.43	-0.23	0.02	0.12	-0.52	-0.71	V68
V69	0.20	0.35	-0.04	-0.20	0.56	0.43	0.57	0.27	0.62	0.21	0.52	0.48	0.49	0.54	-0.21	0.00	-0.29	0.32	0.02	-0.25	0.54	0.47	0.27	0.38	0.18	0.73	0.73	0.23	1.00	-0.39	0.04	0.29	-0.27	0.09	0.02	-0.16	-0.31	-0.25	-0.18	0.27	V69
V70	0.09	-0.69	0.51	0.26	-0.73	-0.59	-0.72	-0.65	-0.62	-0.59	-0.79	-0.74	-0.43	-0.12	0.36	0.08	0.74	-0.58	0.06	-0.06	-0.85	-0.84	-0.84	-0.88	-0.76	-0.79	-0.79	0.63	-0.39	1.00	-0.42	-0.85	0.52	-0.37	-0.44	-0.08	0.20	0.41	-0.46	-0.79	V70
V71	-0.29	0.13	-0.42	-0.17	0.51	0.13	0.15	0.19	0.14	0.28	0.24	0.14	0.11	0.01	-0.47	-0.19	-0.27	0.23	-0.23	-0.09	0.16	0.26	0.27	0.31	0.23	0.32	0.31	-0.40	0.04	-0.42	1.00	0.50	0.38	0.95	0.98	0.69	0.52	-0.23	0.69	0.26	V71
V72	-0.07	0.57	-0.46	-0.26	0.76	0.56	0.77	0.60	0.63	0.66	0.75	0.69	0.46	0.06	-0.22	-0.06	-0.67	0.48	-0.07	0.03	0.71	0.71	0.76	0.76	0.72	0.74															

Table 8.2: Correlation matrix for SLAs in country South Australia

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	
V1	1.00	0.57	0.41	-0.72	0.14	0.22	-0.38	0.41	-0.15	0.36	0.32	-0.27	0.06	-0.21	-0.12	-0.14	0.06	0.33	-0.04	0.19	0.04	0.17	-0.33	0.12	0.09	-0.14	-0.07	-0.32	0.15	0.44	-0.09	0.08	0.27	0.03	V1
V2	0.57	1.00	0.12	-0.57	0.19	-0.19	-0.57	0.55	-0.52	-0.04	-0.11	0.05	0.46	0.31	0.13	0.20	0.28	-0.08	-0.25	0.04	-0.10	-0.06	-0.53	-0.39	0.46	0.38	-0.39	-0.62	-0.25	0.01	-0.33	0.06	0.07	-0.35	V2
V3	0.41	0.12	1.00	-0.55	-0.38	0.54	-0.31	0.36	0.05	0.45	0.52	-0.52	-0.08	-0.35	0.08	-0.31	-0.31	0.46	0.18	0.14	0.17	0.30	0.01	0.42	-0.04	-0.38	0.18	-0.18	0.35	0.41	0.09	0.24	0.31	-0.03	V3
V4	-0.72	-0.57	-0.55	1.00	0.22	-0.20	0.50	-0.47	0.10	-0.25	-0.41	0.22	0.02	0.38	-0.03	0.17	0.03	-0.46	-0.10	-0.14	-0.09	0.00	0.38	-0.08	-0.15	0.24	-0.05	0.33	-0.08	-0.27	0.08	-0.12	-0.18	-0.10	V4
V5	0.14	0.19	-0.38	0.22	1.00	-0.33	-0.10	0.15	-0.17	-0.23	-0.23	0.12	0.27	0.47	-0.04	0.07	0.07	-0.56	-0.11	0.17	0.00	0.13	-0.21	-0.37	0.19	0.41	-0.57	-0.03	-0.29	-0.26	-0.43	-0.20	-0.03	-0.08	V5
V6	0.22	-0.19	0.54	-0.20	-0.33	1.00	0.29	-0.17	0.66	0.56	0.36	-0.57	-0.62	-0.39	-0.37	-0.53	-0.44	0.50	0.38	0.15	0.25	0.56	0.35	0.78	-0.41	-0.70	0.41	0.40	0.72	0.51	0.55	0.24	0.34	0.33	V6
V7	-0.38	-0.57	-0.31	0.50	-0.10	0.29	1.00	-0.89	0.69	0.41	-0.11	0.22	-0.58	-0.22	-0.35	-0.01	-0.12	0.23	0.12	-0.15	0.05	0.02	0.34	0.47	-0.73	-0.51	0.43	0.70	0.21	0.28	0.50	-0.03	-0.08	0.29	V7
V8	0.41	0.55	0.36	-0.47	0.15	-0.17	-0.89	1.00	-0.55	-0.32	0.18	-0.37	0.47	0.30	0.26	-0.13	-0.09	-0.25	-0.02	0.19	-0.01	0.04	-0.32	-0.41	0.73	0.44	-0.45	-0.55	-0.13	-0.25	-0.55	0.11	0.12	-0.19	V8
V9	-0.15	-0.52	0.05	0.10	-0.17	0.66	0.69	-0.55	1.00	0.43	0.27	-0.24	-0.87	-0.52	-0.34	-0.40	-0.40	0.33	0.35	0.02	0.19	0.31	0.34	0.68	-0.58	-0.78	0.46	0.87	0.57	0.28	0.55	0.05	0.09	0.65	V9
V10	0.36	-0.04	0.45	-0.25	-0.23	0.56	0.41	-0.32	0.43	1.00	0.27	-0.29	-0.39	-0.52	-0.31	-0.23	-0.15	0.66	0.14	-0.05	0.09	0.20	0.00	0.63	-0.60	-0.59	0.24	0.28	0.38	0.89	0.52	0.27	0.36	0.17	V10
V11	0.32	-0.11	0.52	-0.41	-0.23	0.36	-0.11	0.18	0.27	0.27	1.00	-0.49	-0.25	-0.45	-0.09	-0.45	-0.34	0.43	0.24	0.39	0.33	0.18	0.07	0.40	-0.31	-0.61	0.28	0.15	0.39	0.32	0.19	0.16	0.14	0.35	V11
V12	-0.27	0.05	-0.52	0.22	0.12	-0.57	0.22	-0.37	-0.24	-0.29	-0.49	1.00	0.22	0.15	0.21	0.61	0.55	-0.07	-0.44	-0.31	-0.29	-0.51	-0.29	-0.28	-0.03	0.22	0.06	-0.20	-0.60	-0.33	-0.27	-0.32	-0.39	-0.35	V12
V13	0.06	0.46	-0.08	0.02	0.27	-0.62	-0.58	0.47	-0.87	-0.39	-0.25	0.22	1.00	0.56	0.33	0.46	0.31	-0.44	-0.30	0.04	-0.13	-0.21	-0.32	-0.66	0.53	0.77	-0.46	-0.67	-0.49	-0.25	-0.54	-0.07	-0.03	-0.47	V13
V14	-0.21	0.31	-0.35	0.38	0.47	-0.39	-0.22	0.30	-0.52	-0.52	-0.45	0.15	0.56	1.00	0.04	0.23	0.07	-0.66	-0.14	0.11	-0.03	-0.05	0.01	-0.60	0.46	0.74	-0.42	-0.32	-0.29	-0.43	-0.37	0.02	-0.06	-0.51	V14
V15	-0.12	0.13	0.08	-0.03	-0.04	-0.37	-0.35	0.26	-0.34	-0.31	-0.09	0.21	0.33	0.04	1.00	0.35	0.27	-0.17	-0.42	-0.30	-0.41	-0.28	-0.39	-0.31	0.36	0.31	-0.20	-0.36	-0.37	-0.36	-0.31	-0.01	-0.14	-0.24	V15
V16	-0.14	0.20	-0.31	0.17	0.07	-0.53	-0.01	-0.13	-0.40	-0.23	-0.45	0.61	0.46	0.23	0.35	1.00	0.57	-0.17	-0.38	-0.27	-0.29	-0.37	-0.31	-0.34	0.11	0.39	-0.16	-0.34	-0.53	-0.23	-0.32	-0.20	-0.32	-0.39	V16
V17	0.06	0.28	-0.31	0.03	0.07	-0.44	-0.12	-0.09	-0.40	-0.15	-0.34	0.55	0.31	0.07	0.27	0.57	1.00	-0.07	-0.51	-0.30	-0.37	-0.39	-0.34	-0.25	0.14	0.29	-0.18	-0.41	-0.44	-0.14	-0.15	-0.12	-0.14	-0.42	V17
V18	0.33	-0.08	0.46	-0.46	-0.56	0.50	0.23	-0.25	0.33	0.66	0.43	-0.07	-0.44	-0.66	-0.17	-0.17	-0.07	1.00	0.04	-0.07	0.03	-0.03	0.01	0.71	-0.54	-0.74	0.67	0.04	0.32	0.67	0.40	0.33	0.24	0.14	V18
V19	-0.04	-0.25	0.18	-0.10	-0.11	0.38	0.12	-0.02	0.35	0.14	0.24	-0.44	-0.30	-0.14	-0.42	-0.38	-0.51	0.04	1.00	0.58	0.86	0.24	0.46	0.14	-0.09	-0.22	0.05	0.39	0.40	0.18	0.38	0.00	0.07	0.34	V19
V20	0.19	0.04	0.14	-0.14	0.17	0.15	-0.15	0.19	0.02	-0.05	0.39	-0.31	0.04	0.11	-0.30	-0.27	-0.30	-0.07	0.58	1.00	0.78	0.22	0.31	0.00	0.05	-0.07	-0.13	0.00	0.16	0.02	0.11	0.05	0.06	0.07	V20
V21	0.04	-0.10	0.17	-0.09	0.00	0.25	0.05	-0.01	0.19	0.09	0.33	-0.29	-0.13	-0.03	-0.41	-0.29	-0.37	0.03	0.86	0.78	1.00	0.23	0.42	0.09	-0.12	-0.19	0.00	0.20	0.29	0.17	0.32	0.00	0.07	0.15	V21
V22	0.17	-0.06	0.30	0.00	0.13	0.56	0.02	0.04	0.31	0.20	0.18	-0.51	-0.21	-0.05	-0.28	-0.37	-0.39	-0.03	0.24	0.22	0.23	1.00	0.13	0.48	-0.11	-0.28	0.04	0.25	0.55	0.23	0.24	0.16	0.58	0.15	V22
V23	-0.33	-0.53	0.01	0.38	-0.21	0.35	0.34	-0.32	0.34	0.00	0.07	-0.29	-0.32	0.01	-0.39	-0.31	-0.34	0.01	0.46	0.31	0.42	0.13	1.00	0.22	-0.22	-0.20	0.36	0.40	0.53	0.15	0.50	0.10	0.09	0.21	V23
V24	0.12	-0.39	0.42	-0.08	-0.37	0.78	0.47	-0.41	0.68	0.63	0.40	-0.28	-0.66	-0.60	-0.31	-0.34	-0.25	0.71	0.14	0.00	0.09	0.48	0.22	1.00	-0.65	-0.88	0.59	0.43	0.58	0.55	0.54	0.28	0.36	0.29	V24
V25	0.09	0.46	-0.04	-0.15	0.19	-0.41	-0.73	0.73	-0.58	-0.60	-0.31	-0.03	0.53	0.46	0.36	0.11	0.14	-0.54	-0.09	0.05	-0.12	-0.11	-0.22	-0.65	1.00	0.71	-0.47	-0.52	-0.31	-0.54	-0.53	-0.06	-0.08	-0.21	V25
V26	-0.14	0.38	-0.38	0.24	0.41	-0.70	-0.51	0.44	-0.78	-0.59	-0.61	0.22	0.77	0.74	0.31	0.39	0.29	-0.74	-0.22	-0.07	-0.19	-0.28	-0.20	-0.88	0.71	1.00	-0.65	-0.54	-0.55	-0.50	-0.54	-0.16	-0.20	-0.49	V26
V27	-0.07	-0.39	0.18	-0.05	-0.57	0.41	0.43	-0.45	0.46	0.24	0.28	0.06	-0.46	-0.42	-0.20	-0.16	-0.18	0.67	0.05	-0.13	0.00	0.04	0.36	0.59	-0.47	-0.65	1.00	0.33	0.50	0.37	0.41	0.19	0.14	0.26	V27
V28	-0.32	-0.62	-0.18	0.33	-0.03	0.40	0.70	-0.55	0.87	0.28	0.15	-0.20	-0.67	-0.32	-0.36	-0.34	-0.41	0.04	0.39	0.00	0.20	0.25	0.40	0.43	-0.52	-0.54	0.33	1.00	0.54	0.21	0.50	0.01	0.08	0.66	V28
V29	0.15	-0.25	0.35	-0.08	-0.29	0.72	0.21	-0.13	0.57	0.38	0.39	-0.60	-0.49	-0.29	-0.37	-0.53	-0.44	0.32	0.40	0.16	0.29	0.55	0.53	0.58	-0.31	-0.55	0.50	0.54	1.00	0.54	0.64	0.24	0.44	0.39	V29
V30	0.44	0.01	0.41	-0.27	-0.26	0.51	0.28	-0.25	0.28	0.89	0.32	-0.33	-0.25	-0.43	-0.36	-0.23	-0.14	0.67	0.18	0.02	0.17	0.23	0.15	0.55	-0.54	-0.50	0.37	0.21	0.54	1.00	0.59	0.35	0.49	0.14	V30
V31	-0.09	-0.33	0.09	0.08	-0.43	0.55	0.50	-0.55	0.55	0.52	0.19	-0.27	-0.54	-0.37	-0.31	-0.32	-0.15	0.40	0.38	0.11	0.32	0.24	0.50	0.54	-0.53	-0.54	0.41	0.50	0.64	0.59	1.00	0.25	0.27	0.22	V31
V32	0.08	0.06	0.24	-0.12	-0.20	0.24	-0.03	0.11	0.05	0.27	0.16	-0.32	-0.07	0.02	-0.01	-0.20	-0.12	0.33	0.00	0.05	0.00	0.16	0.10	0.28	-0.06	-0.16	0.19	0.01	0.24	0.35	0.25	1.00	0.55	0.08	V32
V33	0.27	0.07	0.31	-0.18	-0.03	0.34	-0.08	0.12	0.09	0.36	0.14	-0.39	-0.03	-0.06	-0.14	-0.32	-0.14	0.24	0.07	0.06	0.07	0.58	0.09	0.36	-0.08	-0.20	0.14	0.08	0.44	0.49	0.27	0.55	1.00	0.11	V33
V34	0.03	-0.35	-0.03	-0.10	-0.08	0.33	0.29	-0.19	0.65	0.17	0.35	-0.35	-0.47	-0.51	-0.24	-0.39	-0.42	0.14	0.34	0.07	0.15	0.15	0.21	0.29	-0.21	-0.49	0.26	0.66	0.39	0.14	0.22	0.08	0.11	1.00	V34

Figures highlighted thus indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus indicate correlations of very strong significance

Age distribution	Children aged 0 to 4 years	V1
	Children aged 5 to 14 years	V2
	Young people aged 15 to 24 years	V3
	People aged 65 years and over	V4
Total Fertility Rate	Total Fertility Rate	V5
Families	Single parent families	V6
	Low income families	V7
	High income families	V8
	Jobless families	V9
Labour force	Unemployment	V10
	Unskilled and semi-skilled workers	V11
	Managers and administrators; professionals	V12
	Female labour force participation	V13
Education	Full-time participation in education at age 16	V14
	Average publicly examined achievement scores	V15
	Average publicly assessed achievement scores	V16
	Average school assessed achievement scores	V17

Aboriginal and Torres Strait Islander people	Aboriginal and Torres Strait Islander people	V18
NESB	Resident for five years or more	V19
	Resident for less than five years	V20
	Poor proficiency in English	V21
Housing	Dwellings rented from the SA Housing Trust	V22
	Rent assistance	V23
Transport	Dwellings with no motor vehicle	V24
People who used the Internet at home	People who used the Internet at home	V25
ABS SEIFA	Index of Relative Socio-Economic Disadvantage	V26
Income support payments	Age pensioners	V27
	Disability support pensioners	V28
	Female	

Table 8.2: Correlation matrix for SLAs in country South Australia
...cont

	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	
V35	0.11	-0.02	0.11	-0.18	-0.22	0.16	0.05	-0.21	0.16	0.22	0.30	0.03	-0.23	-0.35	-0.07	-0.10	0.10	0.29	0.14	0.11	0.27	0.09	0.10	0.24	-0.41	-0.35	0.11	0.12	0.22	0.28	0.42	0.06	0.12	0.01	V35
V36	-0.24	0.05	-0.31	0.31	0.22	-0.36	-0.11	0.01	-0.23	-0.41	-0.34	0.40	0.25	0.30	0.29	0.29	0.35	-0.35	-0.69	-0.36	-0.57	-0.12	-0.23	-0.18	0.17	0.30	-0.18	-0.19	-0.36	-0.49	-0.37	-0.18	-0.11	-0.26	V36
V37	-0.16	-0.08	-0.10	0.20	0.18	0.07	0.20	-0.12	0.19	-0.05	0.16	0.04	-0.04	0.08	0.13	0.05	0.00	0.02	-0.23	-0.17	-0.16	0.14	-0.08	0.14	-0.24	-0.17	0.20	0.19	0.12	-0.02	-0.09	0.22	0.15	0.15	V37
V38	-0.01	0.12	0.15	0.01	-0.07	-0.09	0.01	0.00	-0.19	0.05	0.00	0.07	0.20	0.01	0.14	0.17	0.06	0.16	-0.07	-0.04	0.05	0.09	-0.10	0.09	-0.05	0.02	0.10	-0.20	0.00	0.13	-0.06	0.18	0.14	-0.21	V38
V39	-0.33	-0.01	-0.20	0.32	0.19	-0.25	0.03	0.05	-0.10	-0.44	-0.25	0.24	0.14	0.39	0.31	0.21	0.06	-0.37	-0.30	-0.17	-0.28	-0.07	-0.11	-0.18	0.19	0.25	-0.12	-0.08	-0.37	-0.55	-0.37	0.03	-0.23	-0.19	V39
V40	-0.04	-0.38	-0.03	-0.04	-0.31	0.10	0.24	-0.30	0.36	-0.01	0.24	0.07	-0.37	-0.49	-0.12	-0.13	-0.05	0.33	-0.16	-0.16	-0.15	0.10	0.10	0.36	-0.28	-0.47	0.56	0.30	0.24	0.07	0.14	0.06	0.15	0.42	V40
V41	0.02	-0.31	0.06	-0.23	-0.29	0.15	0.14	-0.31	0.41	0.24	0.27	-0.01	-0.44	-0.75	-0.07	-0.14	0.08	0.28	0.09	-0.09	0.04	0.10	0.01	0.35	-0.35	-0.50	0.18	0.33	0.18	0.16	0.37	-0.16	0.09	0.42	V41
V42	-0.03	-0.11	-0.19	-0.04	-0.27	-0.01	0.21	-0.34	0.13	-0.07	0.00	0.34	-0.18	-0.27	-0.06	0.07	0.23	0.35	-0.16	-0.03	-0.11	-0.15	0.09	0.24	-0.14	-0.27	0.46	-0.06	-0.07	0.00	0.15	0.14	-0.01	0.08	V42
V43	-0.22	-0.20	-0.14	0.12	-0.08	-0.27	0.02	-0.12	-0.06	-0.28	-0.05	0.24	0.11	-0.03	-0.01	0.11	0.08	-0.12	-0.21	-0.12	-0.18	-0.09	0.00	-0.14	0.05	0.05	0.17	0.08	-0.09	-0.22	-0.21	0.01	-0.05	0.16	V43
V44	0.06	0.04	0.02	0.04	0.04	0.22	0.35	-0.35	0.32	0.53	0.10	0.00	-0.26	-0.47	-0.21	0.07	0.15	0.49	0.07	0.03	0.14	0.16	-0.06	0.47	-0.42	-0.48	-0.08	0.17	0.03	0.49	0.34	0.12	0.18	-0.05	V44
V45	0.23	0.07	0.26	-0.12	0.10	0.29	0.19	-0.19	0.15	0.60	0.19	0.04	-0.05	-0.49	0.00	-0.07	-0.04	0.59	-0.11	0.06	-0.01	0.03	-0.10	0.42	-0.49	-0.41	-0.33	0.00	-0.02	0.56	0.12	0.12	0.11	-0.12	V45
V46	0.10	-0.30	0.28	-0.24	-0.49	0.52	0.41	-0.40	0.54	0.52	0.48	0.00	-0.59	-0.63	-0.21	-0.23	-0.13	0.84	0.03	-0.02	0.05	0.07	0.16	0.79	-0.65	-0.86	0.70	0.30	0.37	0.49	0.45	0.19	0.20	0.25	V46
V47	-0.14	-0.30	-0.11	0.19	0.05	0.45	0.40	-0.32	0.53	0.21	-0.04	-0.18	-0.46	-0.12	-0.34	-0.35	-0.24	0.19	0.11	-0.03	0.00	0.30	0.35	0.47	-0.35	-0.38	0.28	0.49	0.43	0.22	0.39	0.23	0.29	0.30	V47
V48	-0.07	-0.41	0.07	0.07	0.06	0.50	0.31	-0.15	0.71	0.04	0.42	-0.27	-0.52	-0.22	-0.23	-0.40	-0.40	0.09	0.34	0.31	0.31	0.43	0.28	0.46	-0.25	-0.57	0.31	0.65	0.53	0.01	0.28	0.11	0.15	0.54	V48
V49	0.30	-0.21	0.35	-0.26	-0.39	0.62	0.36	-0.35	0.51	0.72	0.39	-0.33	-0.47	-0.58	-0.41	-0.35	-0.26	0.73	0.40	0.14	0.34	0.30	0.32	0.70	-0.57	-0.69	0.58	0.42	0.69	0.84	0.71	0.32	0.49	0.36	V49
V50	-0.05	-0.27	-0.10	0.31	-0.05	-0.15	0.07	-0.15	-0.13	-0.16	0.08	0.14	0.17	0.12	0.08	0.04	0.06	0.03	-0.26	-0.07	-0.16	-0.07	0.34	0.01	-0.09	0.02	0.45	-0.01	0.21	0.09	0.09	-0.04	0.06	-0.14	V50
V51	0.11	0.05	0.03	-0.18	-0.22	-0.12	-0.16	-0.13	-0.14	0.11	0.00	0.11	0.03	-0.45	0.23	0.14	0.39	0.14	-0.09	-0.05	-0.03	-0.08	-0.16	0.03	-0.09	-0.03	-0.15	-0.21	-0.17	0.09	0.24	-0.18	-0.03	-0.10	V51
V52	0.00	0.01	-0.18	0.16	0.07	-0.26	-0.18	0.09	-0.30	-0.44	-0.09	0.24	0.39	0.23	0.17	0.17	0.05	-0.19	-0.17	-0.03	-0.08	-0.06	0.16	-0.20	0.20	0.23	0.19	-0.17	0.03	-0.20	-0.15	-0.21	-0.05	-0.08	V52
V53	0.07	-0.02	0.13	-0.04	-0.04	0.26	-0.18	0.16	0.02	-0.09	0.28	-0.31	-0.04	0.09	-0.08	-0.26	-0.18	0.04	0.15	0.11	0.14	0.14	0.02	0.09	0.10	-0.05	0.07	-0.02	0.27	0.00	0.07	-0.02	0.01	0.10	V53
V54	-0.09	-0.05	0.31	-0.06	-0.19	0.18	-0.24	0.28	-0.18	-0.03	0.24	-0.33	0.15	0.15	-0.06	-0.25	-0.31	0.11	0.24	0.15	0.14	-0.02	0.25	-0.01	0.13	0.07	0.04	-0.17	0.14	0.07	-0.03	0.19	0.04	-0.05	V54
V55	-0.02	0.22	0.26	-0.27	-0.13	-0.07	-0.28	0.34	-0.18	0.02	0.13	-0.15	0.14	0.09	0.18	0.04	-0.01	0.03	-0.02	-0.01	-0.02	-0.13	-0.25	-0.16	0.14	0.09	-0.14	-0.20	-0.10	-0.01	-0.14	0.26	-0.01	-0.12	V55
V56	-0.30	-0.18	-0.10	0.46	0.08	0.20	0.15	-0.07	0.08	-0.16	-0.33	-0.24	-0.02	0.43	-0.20	-0.20	-0.40	-0.30	0.25	0.06	0.11	0.28	0.52	-0.02	0.09	0.22	0.01	0.24	0.30	-0.07	0.19	0.17	0.08	-0.05	V56
V57	-0.27	-0.13	-0.13	0.46	0.08	0.13	0.15	-0.09	0.00	-0.13	-0.37	-0.18	0.06	0.42	-0.19	-0.13	-0.32	-0.27	0.15	-0.03	0.02	0.25	0.44	-0.06	0.08	0.27	0.02	0.18	0.24	-0.03	0.13	0.14	0.09	-0.08	V57
V58	-0.22	0.12	-0.22	0.23	0.08	-0.47	-0.37	0.28	-0.44	-0.64	-0.38	0.28	0.44	0.34	0.42	0.31	0.24	-0.48	-0.33	-0.20	-0.33	-0.20	-0.10	-0.46	0.58	0.56	-0.18	-0.36	-0.38	-0.60	-0.43	-0.21	-0.23	-0.23	V58
V59	0.28	-0.05	0.04	-0.09	-0.18	0.22	0.28	-0.30	0.21	0.38	0.24	-0.01	-0.11	-0.26	-0.20	-0.16	-0.04	0.51	0.00	-0.05	0.02	0.14	0.06	0.41	-0.32	-0.39	0.58	0.21	0.42	0.57	0.40	0.26	0.34	0.18	V59
V60	0.28	0.02	0.00	-0.06	-0.05	0.23	0.31	-0.32	0.24	0.45	0.21	-0.05	-0.06	-0.21	-0.27	-0.11	-0.03	0.37	0.06	0.00	0.11	0.28	-0.02	0.38	-0.38	-0.35	0.39	0.27	0.41	0.61	0.41	0.23	0.39	0.18	V60
V61	-0.07	-0.20	0.04	-0.03	-0.31	-0.06	-0.09	0.04	-0.06	-0.27	0.03	0.12	-0.15	-0.10	0.20	-0.10	-0.01	0.25	-0.17	-0.12	-0.23	-0.40	0.21	0.02	0.17	-0.06	0.42	-0.14	-0.02	-0.22	-0.09	0.04	-0.21	0.02	V61
V62	0.25	-0.03	-0.01	0.02	-0.08	0.19	0.25	-0.29	0.14	0.33	0.16	-0.01	-0.02	-0.10	-0.20	-0.13	-0.02	0.40	-0.05	-0.02	0.02	0.18	0.07	0.36	-0.28	-0.27	0.50	0.16	0.40	0.54	0.37	0.26	0.36	0.08	V62
V63	0.30	-0.07	0.09	-0.20	-0.28	0.24	0.28	-0.30	0.27	0.40	0.31	-0.01	-0.19	-0.41	-0.18	-0.17	-0.04	0.59	0.02	-0.07	0.02	0.10	0.03	0.45	-0.35	-0.48	0.63	0.23	0.41	0.57	0.39	0.25	0.30	0.27	V63
V64	-0.05	-0.17	-0.09	0.19	0.27	0.08	0.25	-0.15	0.23	0.20	-0.16	-0.15	-0.06	0.03	-0.18	-0.03	-0.28	-0.14	0.06	-0.11	-0.08	0.23	-0.03	0.09	-0.13	-0.04	-0.07	0.39	0.17	0.15	0.00	0.01	0.16	0.33	V64
V65	0.27	0.07	0.04	-0.09	0.02	0.02	-0.01	0.01	0.04	0.16	0.27	-0.21	0.15	-0.08	-0.03	-0.04	-0.11	0.05	-0.10	-0.01	-0.07	0.11	-0.11	0.01	0.00	-0.09	0.18	0.11	0.19	0.25	-0.01	0.16	0.24	0.37	V65
V66	0.13	0.06	-0.16	0.09	-0.10	-0.14	-0.08	-0.10	-0.23	0.00	-0.07	-0.01	0.18	0.01	0.05	0.05	0.27	-0.12	-0.12	-0.07	-0.05	0.04	0.05	-0.18	0.03	0.21	-0.07	-0.11	0.09	0.16	0.24	-0.12	0.08	-0.20	V66
V67	-0.07	-0.06	-0.19	0.13	0.24	0.00	0.08	-0.02	0.20	-0.01	0.05	-0.07	0.00	0.17	-0.15	-0.18	-0.23	-0.18	0.04	0.09	0.04	0.04	0.12	-0.04	0.02	0.01	-0.02	0.34	0.17	0.03	0.13	0.29	0.16	0.27	V67
V68	0.09	-0.12	-0.12	-0.01	-0.05	0.17	0.35	-0.23	0.33	0.33	0.00	-0.16	-0.27	-0.27	-0.24	-0.18	-0.09	0.17	0.11	-0.08	-0.04	-0.04	0.04	0.11	-0.21	-0.22	0.14	0.39	0.20	0.33	0.17	0.13	0.12	0.43	V68
	V1	V2	V3	V4	V5	V6	V7	V8	V9	V10	V11	V12	V13	V14	V15	V16	V17	V18	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28	V29	V30	V31	V32	V33	V34	

Figures highlighted thus indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus indicate correlations of very strong significance

Age distribution	Children aged 0 to 4 years	V1
	Children aged 5 to 14 years	V2
	Young people aged 15 to 24 years	V3
	People aged 65 years and over	V4
Total Fertility Rate	Total Fertility Rate	V5
Families	Single parent families	V6
	Low income families	V7
	High income families	V8
	Jobless families	V9
Labour force	Unemployment	V10
	Unskilled and semi-skilled workers	V11
	Managers and administrators; professionals	V12
	Female labour force participation	V13
Education	Full-time participation in education at age 16	V14
	Average publicly examined achievement scores	V15
	Average publicly assessed achievement scores	V16
	Average school assessed achievement scores	V17

Table 8.2: Correlation matrix for SLAs in country South Australia
...cont

	V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68		
V1	0.11	-0.24	-0.16	-0.01	-0.33	-0.04	0.02	-0.03	-0.22	0.06	0.23	0.10	-0.14	-0.07	0.30	-0.05	0.11	0.00	0.07	-0.09	-0.02	-0.30	-0.27	-0.22	0.28	0.28	-0.07	0.25	0.30	-0.05	0.27	0.13	0.09	0.09	V1	
V2	-0.02	0.05	-0.08	0.12	-0.01	-0.38	-0.31	-0.11	-0.20	0.04	0.07	-0.30	-0.30	-0.41	-0.21	-0.27	0.05	0.01	-0.02	-0.05	0.22	-0.18	-0.13	0.12	-0.05	0.02	-0.20	-0.03	-0.07	-0.17	0.07	0.06	-0.12	-0.12	V2	
V3	0.11	-0.31	-0.10	0.15	-0.20	-0.03	0.06	-0.19	-0.14	0.02	0.26	0.28	-0.11	0.07	0.35	-0.10	0.03	-0.18	0.13	0.31	0.26	-0.10	-0.13	-0.22	0.04	0.00	0.04	-0.01	0.09	-0.09	0.04	-0.16	-0.12	-0.12	V3	
V4	-0.18	0.31	0.20	0.01	0.32	-0.04	-0.23	-0.04	0.12	0.04	-0.12	-0.24	0.19	0.07	-0.26	0.31	-0.18	0.16	-0.04	-0.06	-0.27	0.46	0.46	0.23	-0.09	-0.06	-0.03	0.02	-0.20	0.19	-0.09	0.09	-0.01	-0.01	V4	
V5	-0.22	0.22	0.18	-0.07	0.19	-0.31	-0.29	-0.27	-0.08	0.04	0.10	-0.49	0.05	0.06	-0.39	-0.05	-0.22	0.07	-0.04	-0.19	-0.13	0.08	0.08	0.08	-0.18	-0.05	-0.31	-0.08	-0.28	0.27	0.02	-0.10	-0.05	-0.05	V5	
V6	0.16	-0.36	0.07	-0.09	-0.25	0.10	0.15	-0.01	-0.27	0.22	0.29	0.52	0.45	0.50	0.62	-0.15	-0.12	-0.26	0.26	0.18	-0.07	0.20	0.13	-0.47	0.22	0.23	-0.06	0.19	0.24	0.08	0.02	-0.14	0.17	0.17	V6	
V7	0.05	-0.11	0.20	0.01	0.03	0.24	0.14	0.21	0.02	0.35	0.19	0.41	0.40	0.31	0.36	0.07	-0.16	-0.18	-0.18	-0.24	-0.28	0.15	0.15	-0.37	0.28	0.31	-0.09	0.25	0.28	0.25	-0.01	-0.08	0.35	0.35	V7	
V8	-0.21	0.01	-0.12	0.00	0.05	-0.30	-0.31	-0.34	-0.12	-0.35	-0.19	-0.40	-0.32	-0.15	-0.35	-0.15	-0.13	0.09	0.16	0.28	0.34	-0.07	-0.09	0.28	-0.30	-0.32	0.04	-0.29	-0.30	-0.15	0.01	-0.10	-0.23	-0.23	V8	
V9	0.16	-0.23	0.19	-0.19	-0.10	0.36	0.41	0.13	-0.06	0.32	0.15	0.54	0.53	0.71	0.51	-0.13	-0.14	-0.30	0.02	-0.18	-0.18	0.08	0.00	-0.44	0.21	0.24	-0.06	0.14	0.27	0.23	0.04	-0.23	0.33	0.33	V9	
V10	0.22	-0.41	-0.05	0.05	-0.44	-0.01	0.24	-0.07	-0.28	0.53	0.60	0.52	0.21	0.04	0.72	-0.16	0.11	-0.44	-0.09	-0.03	0.02	-0.16	-0.13	-0.64	0.38	0.45	-0.27	0.33	0.40	0.20	0.16	0.00	0.33	0.33	V10	
V11	0.30	-0.34	0.16	0.00	-0.25	0.24	0.27	0.00	-0.05	0.10	0.19	0.48	-0.04	0.42	0.39	0.08	0.00	-0.09	0.28	0.24	0.13	-0.33	-0.37	-0.38	0.24	0.21	0.03	0.16	0.31	-0.16	0.27	-0.07	0.00	0.00	V11	
V12	0.03	0.40	0.04	0.07	0.24	0.07	-0.01	0.34	0.24	0.00	0.04	0.00	-0.18	-0.27	-0.33	0.14	0.11	0.24	-0.31	-0.33	-0.15	-0.24	-0.18	0.28	-0.01	-0.05	0.12	-0.01	-0.01	-0.15	-0.21	-0.01	-0.16	-0.16	V12	
V13	-0.23	0.25	-0.04	0.20	0.14	-0.37	-0.44	-0.18	0.11	-0.26	-0.05	-0.59	-0.46	-0.52	-0.47	0.17	0.03	0.39	-0.04	0.15	0.14	-0.02	0.06	0.44	-0.11	-0.06	-0.15	-0.02	-0.19	-0.06	0.15	0.18	-0.27	-0.27	V13	
V14	-0.35	0.30	0.08	0.01	0.39	-0.49	-0.75	-0.27	-0.03	-0.47	-0.49	-0.63	-0.12	-0.22	-0.58	0.12	-0.45	0.23	0.09	0.15	0.09	0.43	0.42	0.34	-0.26	-0.21	-0.10	-0.10	-0.41	0.03	-0.08	0.01	-0.27	-0.27	V14	
V15	-0.07	0.29	0.13	0.14	0.31	-0.12	-0.07	-0.06	-0.01	-0.21	0.00	-0.21	-0.34	-0.23	-0.41	0.08	0.23	0.17	-0.08	-0.06	0.18	-0.20	-0.19	0.42	-0.20	-0.27	0.20	-0.20	-0.18	-0.18	-0.03	0.05	-0.24	-0.24	V15	
V16	-0.10	0.29	0.05	0.17	0.21	-0.13	-0.14	0.07	0.11	0.07	-0.07	-0.23	-0.35	-0.40	-0.35	0.04	0.14	0.17	-0.26	-0.25	0.04	-0.20	-0.13	0.31	-0.16	-0.11	-0.10	-0.13	-0.17	-0.03	-0.04	0.05	-0.18	-0.18	V16	
V17	0.10	0.35	0.00	0.06	0.06	-0.05	0.08	0.23	0.08	0.15	-0.04	-0.13	-0.24	-0.40	-0.26	0.06	0.39	0.05	-0.18	-0.31	-0.01	-0.40	-0.32	0.24	-0.04	-0.03	-0.01	-0.02	-0.04	-0.28	-0.11	0.27	-0.09	-0.09	V17	
V18	0.29	-0.35	0.02	0.16	-0.37	0.33	0.28	0.35	-0.12	0.49	0.59	0.84	0.19	0.09	0.73	0.03	0.14	-0.19	0.04	0.11	0.03	-0.30	-0.27	-0.48	0.51	0.37	0.25	0.40	0.59	-0.14	0.05	-0.12	0.17	0.17	V18	
V19	0.14	-0.69	-0.23	-0.07	-0.30	-0.16	0.09	-0.16	-0.21	0.07	-0.11	0.03	0.11	0.34	0.40	-0.26	-0.09	-0.17	0.15	0.24	-0.02	0.25	0.15	-0.33	0.00	0.06	-0.17	-0.05	0.02	0.06	-0.10	-0.12	0.11	0.11	V19	
V20	0.11	-0.36	-0.17	-0.04	-0.17	-0.16	-0.09	-0.03	-0.12	0.03	0.06	-0.02	-0.03	0.31	0.14	-0.07	-0.05	-0.03	0.11	0.15	-0.01	0.06	-0.03	-0.20	-0.05	0.00	-0.12	-0.02	-0.07	-0.11	-0.01	-0.07	-0.08	-0.08	V20	
V21	0.27	-0.57	-0.16	0.05	-0.28	-0.15	0.04	-0.11	-0.18	0.14	-0.01	0.05	0.00	0.31	0.34	-0.16	-0.03	-0.08	0.14	0.14	-0.02	0.11	0.02	-0.33	0.02	0.11	-0.23	0.02	0.02	-0.08	-0.07	-0.05	-0.04	-0.04	V21	
V22	0.09	-0.12	0.14	0.09	-0.07	0.10	0.10	-0.15	-0.09	0.16	0.03	0.07	0.30	0.43	0.30	-0.07	-0.08	-0.06	0.14	-0.02	-0.13	0.28	0.25	-0.20	0.14	0.28	-0.40	0.18	0.10	0.23	0.11	0.04	-0.04	-0.04	V22	
V23	0.10	-0.23	-0.08	-0.10	-0.11	0.10	0.01	0.09	0.00	-0.06	-0.10	0.16	0.35	0.28	0.32	0.34	-0.16	0.16	0.02	0.25	-0.25	0.52	0.44	-0.10	0.06	-0.02	0.21	0.07	0.03	-0.03	-0.11	0.05	0.04	0.04	V23	
V24	0.24	-0.18	0.14	0.09	-0.18	0.36	0.35	0.24	-0.14	0.47	0.42	0.79	0.47	0.46	0.70	0.01	0.03	-0.20	0.09	-0.01	-0.16	-0.02	-0.06	-0.46	0.41	0.38	0.02	0.36	0.45	0.09	0.01	-0.18	0.11	0.11	V24	
V25	-0.41	0.17	-0.24	-0.05	0.19	-0.28	-0.35	-0.14	0.05	-0.42	-0.49	-0.65	-0.35	-0.25	-0.57	-0.09	-0.09	0.20	0.10	0.13	0.14	0.09	0.08	0.58	-0.32	-0.38	0.17	-0.28	-0.35	-0.13	0.00	0.03	-0.21	-0.21	V25	
V26	-0.35	0.30	-0.17	0.02	0.25	-0.47	-0.50	-0.27	0.05	-0.48	-0.41	-0.86	-0.38	-0.57	-0.69	0.02	-0.03	0.23	-0.05	0.07	0.09	0.22	0.27	0.56	-0.39	-0.35	-0.06	-0.27	-0.48	-0.04	-0.09	0.21	-0.22	-0.22	V26	
V27	0.11	-0.18	0.20	0.10	-0.12	0.56	0.18	0.46	0.17	-0.08	-0.33	0.70	0.28	0.31	0.58	0.45	-0.15	0.19	0.07	0.04	-0.14	0.01	0.02	-0.18	0.58	0.39	0.42	0.50	0.63	-0.07	0.18	-0.07	0.14	0.14	V27	
V28	0.12	-0.19	0.19	-0.20	-0.08	0.30	0.33	-0.06	0.08	0.17	0.00	0.30	0.49	0.65	0.42	-0.01	-0.21	-0.17	-0.02	-0.17	-0.20	0.24	0.18	-0.36	0.21	0.27	-0.14	0.16	0.23	0.39	0.11	-0.11	0.39	0.39	V28	
V29	0.22	-0.36	0.12	0.00	-0.37	0.24	0.18	-0.07	-0.09	0.03	-0.02	0.37	0.43	0.53	0.69	0.21	-0.17	0.03	0.27	0.14	-0.10	0.30	0.24	-0.38	0.42	0.41	-0.02	0.40	0.41	0.17	0.19	0.09	0.20	0.20	V29	
V30	0.28	-0.49	-0.02	0.13	-0.55	0.07	0.16	0.00	-0.22	0.49	0.56	0.49	0.22	0.01	0.84	0.09	0.09	-0.20	0.00	0.07	-0.01	-0.07	-0.03	-0.60	0.57	0.61	-0.22	0.54	0.57	0.15	0.25	0.16	0.33	0.33	V30	
V31	0.42	-0.37	-0.09	-0.06	-0.37	0.14	0.37	0.15	-0.21	0.34	0.12	0.45	0.39	0.28	0.71	0.09	0.24	-0.15	0.07	-0.03	-0.14	0.19	0.13	-0.43	0.40	0.41	-0.09	0.37	0.39	0.00	-0.01	0.24	0.17	0.17	V31	
V32	0.06	-0.18	0.22	0.18	0.03	0.06	-0.16	0.14	0.01	0.12	0.12	0.19	0.23	0.11	0.32	-0.04	-0.18	-0.21	-0.02	0.19	0.26	0.17	0.14	-0.21	0.26	0.23	0.04	0.26	0.25	0.01	0.16	-0.12	0.13	0.13	V32	
V33	0.12	-0.11	0.15	0.14	-0.23	0.15	0.09	-0.01	-0.05	0.18	0.11	0.20	0.29	0.15	0.49	0.06	-0.03	-0.05	0.01	0.04	-0.01	0.08	0.09	-0.23	0.34	0.39	-0.21	0.36	0.30	0.16	0.24	0.08	0.12	0.12	V33	
V34	0.01	-0.26	0.15	-0.21	-0.19	0.42	0.42	0.08	0.16	-0.05	-0.12	0.25	0.30	0.54	0.36	-0.14	-0.10	-0.08	0.10	-0.05	-0.12	-0.05	-0.08	-0.23	0.18	0.18	0.02	0.08	0.27	0.33	0.37	-0.20	0.43	0.43	V34	
V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68			

Figures highlighted thus indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus indicate correlations of very strong significance

Perinatal cont.	Smoking during pregnancy	V35
Immunisation	Immunisation status at 12 months of age	V36
Overweight and obesity in childhood	Overweight (not obese) four year old boys	V37
	Obese four year old boys	V38
Dental health	Decayed, missing or filled teeth, 12 year olds	V39
Cancer incidence	All cancers	V40
	Lung cancer	V41
	Female breast cancer	V42
	Prostate cancer	V43
Premature mortality	Deaths of males aged 15 to 64 years	V44
	Deaths of females aged 15 to 64 years	V45
Avoidable mortality	Avoidable mortality	V46
Community based services	Community mental health services	V47
	Child and Adolescent Mental Health Services	V48
	Clients of the Department for Families and Communities	V49
Screening services	Breast screening participation	V50
	Breast cancer detected through screening	V51

Screening services cont.	Cervical screening participation	V52
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Table 8.2: Correlation matrix for SLAs in country South Australia
...cont

	V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47	V48	V49	V50	V51	V52	V53	V54	V55	V56	V57	V58	V59	V60	V61	V62	V63	V64	V65	V66	V67	V68		
V35	1.00	-0.13	-0.01	-0.13	-0.29	0.11	0.52	0.02	-0.10	0.14	0.27	0.36	0.05	0.13	0.40	-0.02	0.48	-0.07	-0.10	-0.08	-0.07	-0.17	-0.19	-0.40	0.11	0.16	-0.17	0.03	0.17	-0.18	-0.06	0.33	-0.03	-0.03	V35	
V36	-0.13	1.00	0.16	-0.15	0.41	0.08	-0.06	0.08	0.23	-0.13	0.00	-0.19	-0.02	-0.14	-0.53	0.18	0.07	0.24	-0.09	-0.17	-0.09	-0.06	-0.01	0.43	-0.21	-0.23	0.10	-0.13	-0.25	0.02	-0.10	0.13	-0.29	-0.29	V36	
V37	-0.01	0.16	1.00	0.26	0.32	0.19	-0.13	0.09	0.11	-0.06	0.04	0.12	0.25	0.31	-0.04	0.10	-0.24	0.08	-0.01	-0.12	0.06	-0.10	-0.06	-0.16	0.20	0.24	-0.11	0.18	0.20	0.01	0.12	-0.19	0.07	0.07	V37	
V38	-0.13	-0.15	0.26	1.00	0.09	0.16	-0.21	0.17	0.00	0.24	0.10	0.07	-0.07	-0.18	0.09	0.05	-0.04	0.08	-0.08	0.01	0.16	0.03	0.08	-0.04	0.25	0.28	-0.14	0.22	0.25	-0.10	-0.07	-0.08	-0.10	-0.10	V38	
V39	-0.29	0.41	0.32	0.09	1.00	-0.12	-0.38	0.19	-0.01	-0.07	-0.34	-0.28	-0.08	0.01	-0.58	-0.07	-0.11	0.03	-0.16	-0.13	0.03	0.15	0.16	0.39	-0.27	-0.30	0.14	-0.25	-0.27	-0.24	-0.19	-0.23	-0.32	-0.32	V39	
V40	0.11	0.08	0.19	0.16	-0.12	1.00	0.52	0.53	0.54	-0.12	-0.24	0.46	0.21	0.32	0.28	0.24	0.05	0.14	-0.04	-0.16	-0.18	-0.20	-0.19	-0.09	0.35	0.26	0.21	0.25	0.43	-0.01	0.20	-0.02	0.20	0.20	V40	
V41	0.52	-0.06	-0.13	-0.21	-0.38	0.52	1.00	0.22	0.16	0.22	0.12	0.42	0.09	0.21	0.34	-0.08	0.61	-0.12	-0.16	-0.34	-0.13	-0.43	-0.45	-0.24	0.07	0.10	-0.07	-0.06	0.19	-0.03	0.01	0.15	0.10	0.10	V41	
V42	0.02	0.08	0.09	0.17	0.19	0.53	0.22	1.00	0.13	0.16	-0.10	0.37	0.13	0.01	0.14	0.18	0.27	0.13	-0.19	-0.20	-0.24	-0.16	-0.16	0.13	0.34	0.20	0.33	0.27	0.40	-0.42	-0.06	-0.03	-0.01	-0.01	V42	
V43	-0.10	0.23	0.11	0.00	-0.01	0.54	0.16	0.13	1.00	-0.20	-0.32	-0.05	0.01	0.06	-0.14	0.15	-0.16	0.10	-0.07	0.05	-0.05	-0.06	0.00	0.13	0.05	-0.01	0.16	0.05	0.05	0.11	0.20	-0.04	0.18	0.18	V43	
V44	0.14	-0.13	-0.06	0.24	-0.07	-0.12	0.22	0.16	-0.20	1.00	0.34	0.60	0.25	0.04	0.39	-0.36	0.40	-0.42	-0.05	-0.10	-0.04	-0.04	-0.05	-0.21	0.24	0.34	-0.33	0.25	0.23	0.03	-0.17	0.01	0.12	0.12	V44	
V45	0.27	0.00	0.04	0.10	-0.34	-0.24	0.12	-0.10	-0.32	0.34	1.00	0.62	0.12	-0.05	0.35	-0.24	0.38	-0.17	-0.18	0.09	0.03	-0.20	-0.21	-0.39	-0.03	0.11	-0.33	0.02	-0.05	0.14	-0.20	-0.16	0.04	0.04	V45	
V46	0.36	-0.19	0.12	0.07	-0.28	0.46	0.42	0.37	-0.05	0.60	0.62	1.00	0.34	0.36	0.64	0.09	0.08	-0.11	0.03	0.00	-0.08	-0.24	-0.27	-0.42	0.43	0.32	0.22	0.34	0.50	-0.13	-0.03	-0.17	0.10	0.10	V46	
V47	0.05	-0.02	0.25	-0.07	-0.08	0.21	0.09	0.13	0.01	0.25	0.12	0.34	1.00	0.40	0.38	0.02	-0.23	-0.05	0.04	-0.03	-0.18	0.27	0.20	-0.32	0.21	0.20	0.03	0.22	0.18	0.25	-0.12	-0.16	0.43	0.43	V47	
V48	0.13	-0.14	0.31	-0.18	0.01	0.32	0.21	0.01	0.06	0.04	-0.05	0.36	0.40	1.00	0.30	-0.01	-0.31	-0.05	0.24	-0.06	-0.08	0.05	-0.04	-0.29	0.15	0.17	-0.03	0.12	0.17	0.16	0.08	-0.29	0.08	0.08	V48	
V49	0.40	-0.53	-0.04	0.09	-0.58	0.28	0.34	0.14	-0.14	0.39	0.35	0.64	0.38	0.30	1.00	0.13	0.07	-0.09	0.11	0.10	-0.18	0.02	0.02	-0.60	0.63	0.63	-0.08	0.56	0.67	0.14	0.19	0.08	0.33	0.33	V49	
V50	-0.02	0.18	0.10	0.05	-0.07	0.24	-0.08	0.18	0.15	-0.36	-0.24	0.09	0.02	-0.01	0.13	1.00	-0.12	0.67	1.00	1.00	-0.23	0.12	0.14	0.23	0.44	0.28	0.33	0.48	0.38	-0.05	0.25	0.30	-0.10	-0.10	V50	
V51	0.48	1.00	-0.24	-0.04	-0.11	0.05	0.61	0.27	-0.16	0.40	0.38	0.08	-0.23	-0.31	0.07	-0.12	1.00	-0.04	-0.25	-0.35	-0.12	-0.35	-0.31	0.04	-0.07	-0.05	-0.07	-0.14	0.00	-0.29	-0.17	0.39	-0.20	-0.20	V51	
V52	-0.07	0.24	0.08	0.08	0.03	0.14	-0.12	0.13	0.10	-0.42	-0.17	-0.11	-0.05	-0.05	-0.09	0.67	-0.04	1.00	0.03	-0.05	-0.39	0.17	0.18	0.50	0.23	0.12	0.26	0.28	0.18	0.04	0.14	0.05	-0.27	-0.27	V52	
V53	-0.10	-0.09	-0.01	-0.08	-0.16	-0.04	-0.16	-0.19	-0.07	-0.05	-0.18	0.03	0.04	0.24	0.11	0.06	-0.25	0.03	1.00	0.43	0.04	0.00	-0.01	-0.08	0.07	0.02	0.10	0.13	0.00	-0.05	0.15	0.02	-0.06	-0.06	V53	
V54	-0.08	-0.17	-0.12	0.01	-0.13	-0.16	-0.34	-0.20	0.05	-0.10	0.09	0.00	-0.03	-0.06	0.10	0.05	-0.35	-0.05	0.43	1.00	0.19	0.21	0.20	-0.08	-0.01	-0.07	0.13	0.01	-0.03	-0.14	0.03	-0.08	-0.01	-0.01	V54	
V55	-0.07	-0.09	0.06	0.16	0.03	-0.18	-0.13	-0.24	-0.05	-0.04	0.03	-0.08	-0.18	-0.08	-0.18	-0.23	-0.12	-0.39	0.04	0.19	1.00	-0.33	-0.37	-0.21	-0.33	-0.29	-0.09	-0.33	-0.31	-0.09	-0.05	-0.17	-0.12	-0.12	V55	
V56	-0.17	-0.06	-0.10	0.03	0.15	-0.20	-0.43	-0.16	-0.06	-0.04	-0.20	-0.24	0.27	0.05	0.17	0.00	0.21	-0.33	1.00	0.96	0.24	0.06	0.03	0.08	0.14	-0.03	0.23	-0.14	0.05	-0.02	-0.02	0.01	0.01	-0.02	V56	
V57	-0.19	-0.01	-0.06	0.08	0.16	-0.19	-0.45	-0.16	0.00	-0.05	-0.21	-0.27	0.20	-0.04	0.02	0.14	-0.31	0.18	-0.01	0.20	-0.37	0.96	1.00	0.23	0.14	0.11	0.07	0.20	0.05	0.23	-0.07	0.13	0.01	0.01	0.01	V57
V58	-0.40	0.43	-0.16	-0.04	0.39	-0.09	-0.24	0.13	0.13	-0.21	-0.39	-0.42	-0.32	-0.29	-0.60	0.23	0.04	0.50	-0.08	-0.08	-0.21	0.24	0.23	1.00	-0.22	-0.35	0.38	-0.14	-0.27	-0.11	-0.06	0.01	-0.35	-0.35	V58	
V59	0.11	-0.21	0.20	0.25	-0.27	0.35	0.07	0.34	0.05	0.24	-0.03	0.43	0.21	0.15	0.63	0.44	-0.07	0.23	0.07	-0.01	-0.33	0.06	0.14	-0.22	1.00	0.92	0.07	0.96	0.97	0.03	0.43	0.26	0.28	0.28	V59	
V60	0.16	-0.23	0.24	0.28	-0.30	0.26	0.10	0.20	-0.01	0.34	0.11	0.32	0.20	0.17	0.63	0.28	-0.05	0.12	0.02	-0.07	-0.29	0.03	0.11	-0.35	0.92	1.00	-0.32	0.89	0.89	0.11	0.44	0.30	0.30	0.30	V60	
V61	-0.17	0.10	-0.11	-0.14	0.14	0.21	-0.07	0.33	0.16	-0.33	-0.33	0.22	0.03	-0.03	-0.08	0.33	-0.07	0.26	0.10	0.13	-0.09	0.08	0.07	0.38	0.07	-0.32	1.00	0.05	0.09	-0.20	-0.09	-0.16	-0.07	-0.07	V61	
V62	0.03	-0.13	0.18	0.22	-0.25	0.25	-0.06	0.27	0.05	0.25	0.02	0.34	0.22	0.12	0.56	0.48	-0.14	0.28	0.13	0.01	-0.33	0.14	0.20	-0.14	0.96	0.89	0.05	1.00	0.86	0.08	0.42	0.26	0.24	0.24	V62	
V63	0.17	-0.25	0.20	0.25	-0.27	0.43	0.19	0.40	0.05	0.23	-0.05	0.50	0.18	0.17	0.67	0.38	0.00	0.18	0.00	-0.03	-0.31	-0.03	0.05	-0.27	0.97	0.89	0.09	0.86	1.00	-0.02	0.41	0.23	0.30	0.30	V63	
V64	-0.18	0.02	0.01	-0.10	-0.24	-0.01	-0.03	-0.42	0.11	0.03	0.14	-0.13	0.25	0.16	0.14	-0.05	-0.29	0.04	-0.05	-0.14	-0.09	0.23	0.23	-0.11	0.03	0.11	-0.20	0.08	-0.02	1.00	0.25	-0.18	0.13	0.33	V64	
V65	-0.06	-0.10	0.12	-0.07	-0.19	0.20	0.01	-0.06	0.20	-0.17	-0.20	-0.03	-0.12	0.08	0.19	0.25	-0.17	0.14	0.15	0.03	-0.05	-0.14	-0.07	-0.06	0.43	0.44	-0.09	0.42	0.41	0.25	1.00	0.21	0.24	0.25	V65	
V66	0.33	0.13	-0.19	-0.08	-0.23	-0.02	0.15	-0.03	-0.04	0.01	-0.16	-0.17	-0.16	-0.29	0.08	0.30	0.39	0.05	0.02	-0.08	-0.17	0.05	0.13	0.01	0.26	0.30	-0.16	0.26	0.23	-0.18	0.21	1.00	-0.04	0.09	V66	
V67	-0.10	0.04	0.24	-0.12	0.15	0.00	-0.07	0.09	0.07	0.08	0.05	-0.06	0.21	0.26	0.04	0.02	-0.23	0.01	-0.14	-0.03	-0.07	0.26	0.20	0.05	0.23	0.27	-0.13	0.25	0.18	0.13	0.24	-0.04	1.00	0.07	V67	
V68	-0.03	-0.29	0.07	-0.10	-0.32	0.20	0.10	-0.01	0.18	0.12	0.04	0.10	0.43	0.08	1.00	-0.10	-0.20	-0.27	-0.06	-0.01	-0.12	-0.02	0.01	-0.35	0.28	0.30	-0.07	0.24	0.30	0.33	0.25	0.09	0.07	1.00	V68	

Figures highlighted thus indicate correlations of strong significance between the appropriate variables in the matrix; those highlighted thus indicate correlations of very strong significance

Perinatal cont.	Smoking during pregnancy	V35
Immunisation	Immunisation status at 12 months of age	V36
Overweight and obesity in childhood	Overweight (not obese) four year old boys	V37
	Obese four year old boys	V38
Dental health	Decayed, missing or filled teeth, 12 year olds	V39
Cancer incidence	All cancers	V40
	Lung cancer	V41
	Female breast cancer	V42
	Prostate cancer	V43
Premature mortality	Deaths of males aged 15 to 64 years	V44
	Deaths of females aged 15 to 64 years	V45
Avoidable mortality	Avoidable mortality	V46
Community based services	Community mental health services	V47
	Child and Adolescent Mental Health Services	V48
	Clients of the Department for Families and Communities	V49
Screening services	Breast screening participation	V50
	Breast cancer detected through screening	V51

Screening services cont.	Cervical screening participation	V52
	Cervical screening outcomes: High grade abnormality	V53
	Cervical screening outcomes: Low grade abnormality	V54
General medical practitioners	Population per GP	V55
	GP services - males	V56
	GP services - females	V57
Private health insurance	Private health insurance	V58
Hospital admissions	Total admissions	V59
	Public acute hospitals	V

9 Summary of trends

Introduction

This chapter provides a summary of variations in the indicators for the whole population and by groupings of the population, based on their socioeconomic status, in order to show the extent of any inequality in geographic distribution. Socioeconomic status is based on the Index of Relative Socio-Economic Disadvantage.

Thus, data are provided to show both absolute and relative change. For example, despite an overall decline of 28.0% in male death rates at ages 15 to 64 years in country South Australia, there was an increase in inequality, with the rate ratio increasing from 1.28* in 1989-93 to 1.87** in 1999-2002. This shows that, although there was an absolute decline in rates of premature death for males in country South Australia, the relative position of the most disadvantaged 20% of the population worsened. In comparison, although there was a similar overall decline for males in Metropolitan Adelaide, the rate ratio increased only slightly, from 1.88** to 1.90**. For further discussion about relative and absolute change, see the PHIDU website: <http://www.publichealth.gov.au>.

The reference period for the data in the comparisons varies according to the dataset. For example, a majority of the Census variables are available for the 2001 Census as shown in Chapter 4, and the 1986 Census, as presented in the first edition of the Atlas (for country South Australia the comparison is with 1991, as not all data were available to produce the population groups shown in this chapter). Information on jobless families and Internet use at home was first collected in the 2001 Census, and consequently data cannot be produced for earlier Censuses.

It should be noted that, while the rate or proportion for some indicators is shown as having increased, the increase may not be consistent over the whole period shown. For example, the overall increase in the female labour force participation in Metropolitan Adelaide of 3.6% is comprised of a larger increase from 1986 to 1991, followed by a decline to 1996, and a further decline to 2001.

Measure of inequality

In order to summarise the extent of social and health inequality shown in the maps in the earlier chapters, the indicators are presented in chart form on the following pages.

The data have been calculated to show the average rate (or percentage or standardised ratio) by socioeconomic status of the SLA of the address of residence of the person about whom the event is

recorded (SLA of the deceased, the person admitted to hospital, etc). To do this, each SLA in Metropolitan Adelaide (including Gawler, to allow comparison with earlier data) was allocated to one of five categories (quintiles) based on its Index of Relative Socio-Economic Disadvantage (IRSD) score. Quintile 1 comprises (approximately) twenty per cent of the population living in the SLAs in Metropolitan Adelaide with the highest IRSD scores, and Quintile 5 comprises the twenty per cent of the population in SLAs with the lowest IRSD scores. The average rate (or standardised ratio or percentage) was then calculated for each of the five quintiles. For example, the average female death rate was calculated for the most advantaged SLAs (Quintile 1), for the most disadvantaged SLAs (Quintile 5) and for each of the intervening quintiles (Quintiles 2 to 4). These rates were then graphed.

This exercise was repeated for SLAs in country South Australia (excluding Gawler).

Results

Change in socioeconomic status

Metropolitan Adelaide: Chapters 4 and 5

The change in the indicators in Table 9.1 highlights aspects of the widely recognised demographic and socioeconomic trends occurring in the State. Of note in Metropolitan Adelaide (Table 9.1) are the sizeable increases over a 15-year period in the number of people aged 65 years and over, the number of single parent and low income families and the number of people identifying in the Population Census as being of Aboriginal or Torres Strait Islander origin. Also of note, over the 12 years from 1992 to 2004, are the increases in numbers of disability support and female sole parent pensioners.

The largest declines over the 15 years from 1986 are in people recorded in the Census as being unemployed and the number of unskilled and semi-skilled workers. Although the decline in the number of dwellings rented from the SA Housing Trust is relatively low, at 6.3% over 15 years, it is particularly important, as it has occurred at a time of overall growth in the size of the welfare-dependent population, who have traditionally been a major part of the client group for public housing.

There was a very large decline in the number of people receiving an unemployment benefit; at the same time, there was an increase in inequality associated with this decline (Table 9.2). The decline of 48.3% in unemployment beneficiaries should also be considered in light of the 39.6% increase in the number of people on a Disability Support Pension (DSP). In 1992, the DSP

numbers were just over half those of unemployment beneficiaries; yet by 2004, DSP numbers were almost 50% higher. There was also a decline in the rate of age pensioners (despite a small increase in their number); in this case inequality increased (Table 9.2).

The small decline in the Total Fertility Rate is reflected in the decline in the number of 0 to 4 year old children.

Of note is that in 2004, there were a total of 82,908 people in receipt of a disability or unemployment payment (Table 9.1), 11.5% of the population aged 15 to 64 years for males and 15 to 59 years for females; a further 24,423 females were receiving a sole parent pension, giving a total of 14.9% of the population group described receiving one of these welfare payments. That is, one in seven people at these ages was reliant on welfare benefits: this does not include their dependants, or other low income families who receive an income from employment.

Table 9.1: Change in demographic and socioeconomic status indicators, Metropolitan Adelaide

Indicator	Number		% change	
	1986 (1991)	2001	No. ¹	Rate/% ²
Chapter 4				
0 to 4 year old children	67,574	64,654	-4.3	-13.1
5 to 14 year old children	138,685	139,170	0.3	-8.8
15 to 24 year old young people	171,961	152,002	-11.6	-19.7
65 years & over	121,140	163,345	34.8	22.5
Total fertility rate (1991)	(1.68)	1.62	..	(-3.6)
Single parent families	21,640	33,390	54.3	43.3
Low income families	46,667	65,381	40.1	17.2
Unemployed people	43,706	39,776	-9.0	-51.6
Unskilled & semi-skilled workers	89,511	79,368	-11.3	-21.2
Female labour force participation (20 to 54 years)	154,228	191,194	24.0	3.6
Educational participation at age 16 years	11,492	11,931	(3.8)	(5.3)
Aboriginal & Torres Strait Islander people	5,825	11,047	89.6	72.9
People born overseas ³ , resident in Australia for five years or more	(103,071)	114,594	11.2	1.8
People born overseas ³ , resident in Australia for less than five years	(15,575)	13,502	-13.3	-21.3
Poor proficiency in English ³	(24,488)	23,526	(-3.9)	-13.7
SA Housing Trust rented dwellings	36,734	34,394	-6.4	-23.7
Dwellings without a motor vehicle	46,146	46,738	1.3	-17.2
Chapter 5	1992	2004	No.¹	Rate/%²
Age pensioners	134,047	136,319	1.7	-17.5
Disability support pensioners	30,613	49,156	60.6	39.6
Female sole parent pensioners	18,006	24,423	35.6	24.6
Unemployment beneficiaries (includes CDEP)	58,352	33,752	-42.2	-48.3
Children in welfare-dependent and other low income families ⁴	84,453	86,162	2.0	6.9

¹Percentage change in the numbers shown from 1986 (1991) to 2001 (Chapter 4) or 1992 to 2004 (Chapter 5)

²Percentage change in the rate or proportion from 1986 (1991) to 2001 (Chapter 4) or 1992 to 2004 (Chapter 5)

³Includes only people who were born in a predominantly non-English speaking country

⁴Excludes children in families under CDEP

Note: See referenced chapter for data definitions

Country South Australia: Chapters 4 and 5

In country South Australia (Table 9.2), the declines and increases are generally more pronounced (and over a shorter period) than those in Metropolitan Adelaide. There were smaller increases in country South Australia compared to Metropolitan Adelaide for low income families (5.3% compared to 17.2% in Metropolitan Adelaide) and people identifying as Aboriginal and Torres Strait Islander (a very large 36.4% although smaller than the 72.9% increase in Metropolitan Adelaide).

Of note are the large declines in the 0 to 4 and 15 to 24 year age groups; the substantial decline in people recorded in the Census as being unemployed; declines in people born overseas and

resident for less than five years, five years or more and with a poor proficiency in English; the increase in unskilled and semi-skilled workers (compared with a decrease in Metropolitan Adelaide); a smaller increase in people reporting being of Aboriginal or Torres Strait Islander origin; and a much more substantial decline in the number of dwellings rented from the SA Housing Trust (reflecting a decline in availability of housing rather than a decline in need).

There were larger increases in country South Australia compared to Metropolitan Adelaide for people aged 65 years and over, single parent families and disability support pensioners. The decline in the number of children in welfare-

dependent and other low income families is likely to be due to the decline in children, whereas both female sole parent pensioners and low income families have increased. It should be noted that these figures exclude children in Aboriginal families receiving unemployment benefits through the CDEP scheme.

In 2004, there were a total of 30,817 people in receipt of a disability or unemployment payment, 12.2% of the population (aged 15 to 64 years for males and 15 to 59 years for females); a further 7,748 females were receiving a sole parent pension (in total adding to 15.2% of the population group receiving one of these welfare payments).

Table 9.2: Change in demographic and socioeconomic status indicators, country South Australia

Indicator	Number		% change	
	1991	2001	No. ¹	Rate/% ²
Chapter 4				
0 to 4 year old children	31,259	27,063	-13.4	-19.4
5 to 14 year old children	62,130	60,800	-2.1	-9.0
15 to 24 year old young people	58,986	46,564	-21.1	-26.6
65 years & over	40,244	57,655	43.3	33.3
Total fertility rate	2.12	2.04	..	-3.8
Single parent families	6,591	10,351	57.0	48.5
Low income families	22,995	29,098	26.5	5.3
Unemployed people	16,395	12,285	-25.1	-58.3
Unskilled & semi-skilled workers	39,584	41,003	3.6	5.4
Female labour force participation (20 to 54 years)	50,714	62,121	22.5	-3.1
Educational participation at age 16 years	4,088	4,410	7.9	2.6
Aboriginal & Torres Strait Islander people	8,466	12,378	46.2	36.4
People born overseas ³ , resident in Australia for five years or more	15,252	13,861	-9.1	-14.3
People born overseas ³ , resident in Australia for less than five years	1,332	938	-29.6	-40.6
Poor proficiency in English ³	1,955	1,410	(-27.9)	-36.2
SA Housing Trust rented dwellings	15,565	10,292	-33.9	-45.9
Dwellings without a motor vehicle	10,169	11,306	11.2	-8.6
Chapter 5	1996	2004	No.¹	Rate/%²
Age pensioners	43,703	48,825	11.7	-16.4
Disability support pensioners	14,715	16,971	15.3	48.9
Female sole parent pensioners	6,721	7,748	15.3	21.0
Unemployment beneficiaries (includes CDEP)	20,318	13,846	-31.9	-41.3
Children in welfare-dependent and other low income families ⁴	45,177	37,527	-16.9	-15.8

¹Percentage change in the numbers shown from 1986 (1991) to 2001 (Chap. 4) or 1992 to 2004 (Chap. 5)

²Percentage change in the rate or proportion from 1986 (1991) to 2001 (Chap. 4) or 1992 to 2004 (Chap. 5)

³Includes only people who were born in a predominantly non-English speaking country

⁴Excludes children in families under CDEP

Note: See referenced chapter for data definitions

Socioeconomic status by area: change over time

Indicators for which data are only available for the latest period are shown in Figures 9.5 and 9.6.

Metropolitan Adelaide: Chapter 4 Indicators

In addition to the often substantial changes in many of the indicators shown in the previous tables, there are also variations when these data are viewed by socioeconomic groupings of areas (quintiles).

The second chart in Figure 9.1 shows single parent families (with dependent children) as a proportion of all families (with dependent children) in each quintile, at both the 1986 and 2001 Censuses: the taller bars for 2001 show that the proportion of single parent families was higher in each quintile, when compared with 1986. We know from Table 9.1 that the number of single parent families also increased, by 54.3%, between the Censuses.

The relative difference between the proportion of families who were single parent families in the most disadvantaged areas (Quintile 5) and the most advantaged areas (Quintile 1) is the rate ratio. The rate ratio is shown on the right hand side of the chart with the abbreviation 'RR', and is the measure of the difference in rates between Quintiles 5 and 1. In this chart, a comparison of the rate ratios for the two periods shows that the difference in rates between the most disadvantaged (Quintile 5) and most advantaged areas (Quintile 1) has declined, marginally, from 1986 to 2001, from a rate ratio of 2.14 to a rate ratio of 2.11. A rate ratio of 2.11 means that there were over twice the proportion of single parent families in the most disadvantaged areas as in the most advantaged areas, or 111% more.

For many of the indicators, there is also a gradient across the quintiles in the proportions or rates, where the proportion or rate in each subsequent quintile is higher than that in the previous quintile: this is referred to as a 'socioeconomic' gradient. Such a pattern is evident for both periods in the chart for single parent families. In some cases, the Quintile 5 rates are higher than those in Quintile 1, but the gradient is not continuous – for example, in the chart for unskilled and semi-skilled workers, the proportion of these workers in areas in Quintile 2 is greater than in Quintiles 1 and 3, although the gradient then continues. When the gradient is marginally disturbed (i.e. out by one quintile) it is still referred to as a gradient, with 'continuous' gradient being used to describe a consistent gradient across all five quintiles.

In addition to the marginal reduction in inequality for single parent families, a number of the other indicators in Figure 9.1 also show an improvement in the rate ratios, including low income families, unemployment, education participation at 16 years, people born overseas and resident for five years or more, poor proficiency in English, dwellings rented from the South Australian Housing Trust and dwellings with no motor vehicle. Despite declining inequality for these variables, many remain at over twice the level for those in the poorest areas (compared with those most well-off).

Of note is that, despite the overall increase in participation of females in the labour force identified earlier, their participation in the most disadvantaged areas has declined from the 1986 level, both overall (the bar is shorter in Quintile 5 in 2001) and relative to women in Quintile 1 (the rate ratio has dropped, from a participation rate of 84% of those in Quintile 1, to 69%). This is another indication of increasing social and economic inequality in Metropolitan Adelaide.

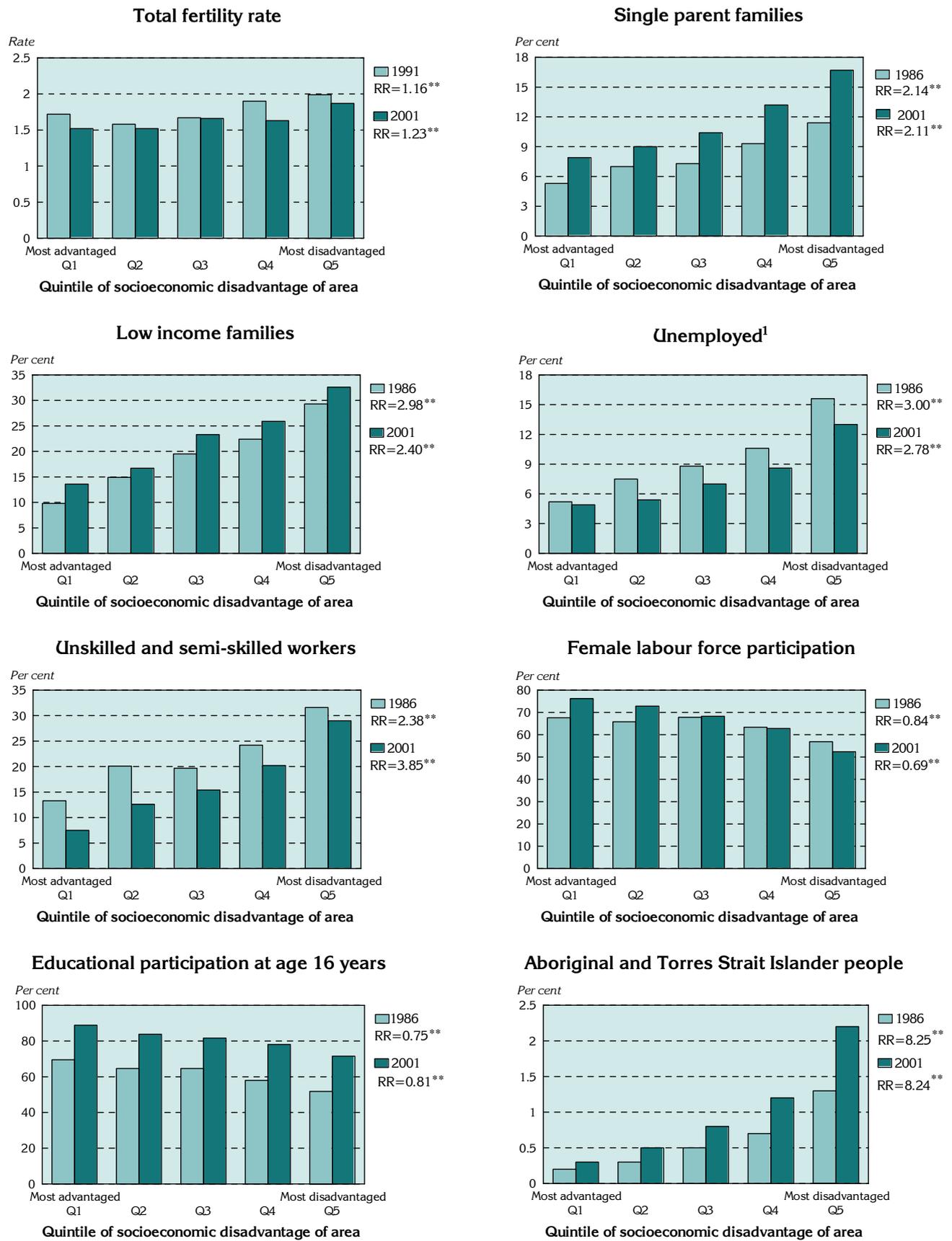
Despite an overall decline of 21.2% in the proportion of the workforce in unskilled and semi-skilled occupations, Figure 9.1 shows that the majority of this decline has occurred for workers living in Quintiles 1 and 2.

Inequality in the geographic distribution of Aboriginal and Torres Strait Islander people remained extremely high, with a rate ratio of 8.24**.

Full-time participation in education at age 16 has increased overall, and in each quintile, and the gap between participation of young people in the most disadvantaged and most advantaged areas has narrowed, from 25% to 19%.

The substantial decline in rate ratios for dwellings rented from the SA Housing Trust, from 27 times higher in the most disadvantaged areas to eleven times higher, is largely a result of the smaller number of dwellings in the most disadvantaged areas (approximately 3,000 less in 2001), rather than the larger number in the most advantaged areas (up from 652 to 1,471).

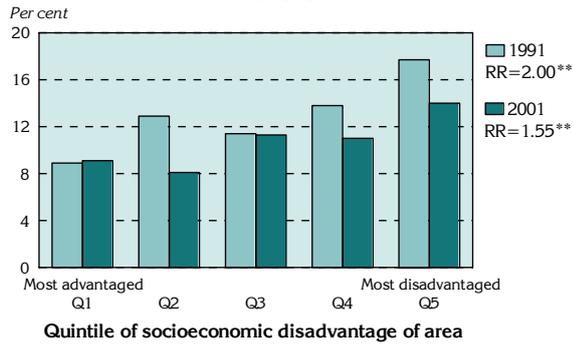
Figure 9.1: Indicators of socioeconomic status (Chapter 4), change by socioeconomic disadvantage of area, Metropolitan Adelaide



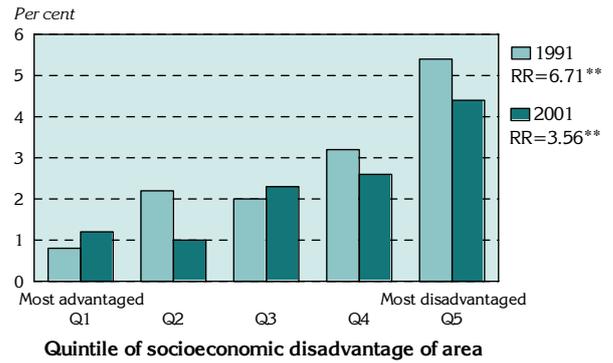
Note: Footnotes are at the end of the figure

Figure 9.1: Indicators of socioeconomic status (Chapter 4), change by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont

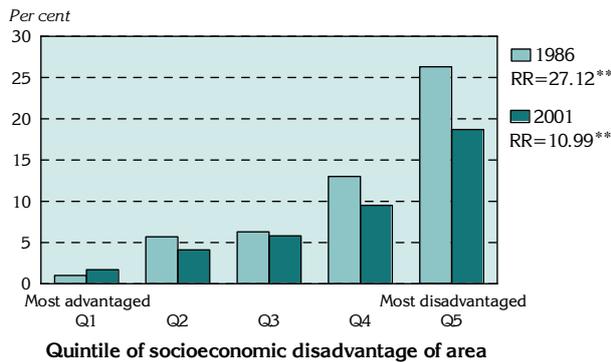
People born overseas and resident for 5 years or more²



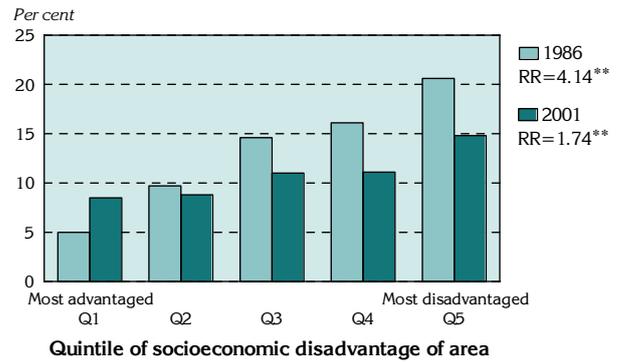
Poor proficiency in English³



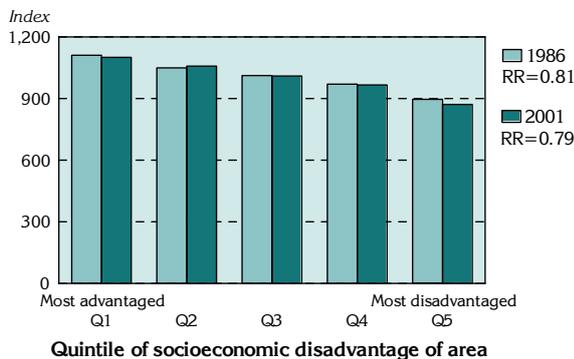
Dwellings rented from the SA Housing Trust



No motor vehicle



Index of Relative Socio-Economic Disadvantage



¹Unemployment rates in this chart were calculated from Census data: this measure generally produces a higher rate than the official unemployment estimates, which are mapped in Chapter 4

²Includes only people who were born in a predominantly non-English speaking country

³Includes only people who were born in a predominantly non-English speaking country and who reported not speaking English “well” or “at all”

Note: See referenced chapter for data definitions

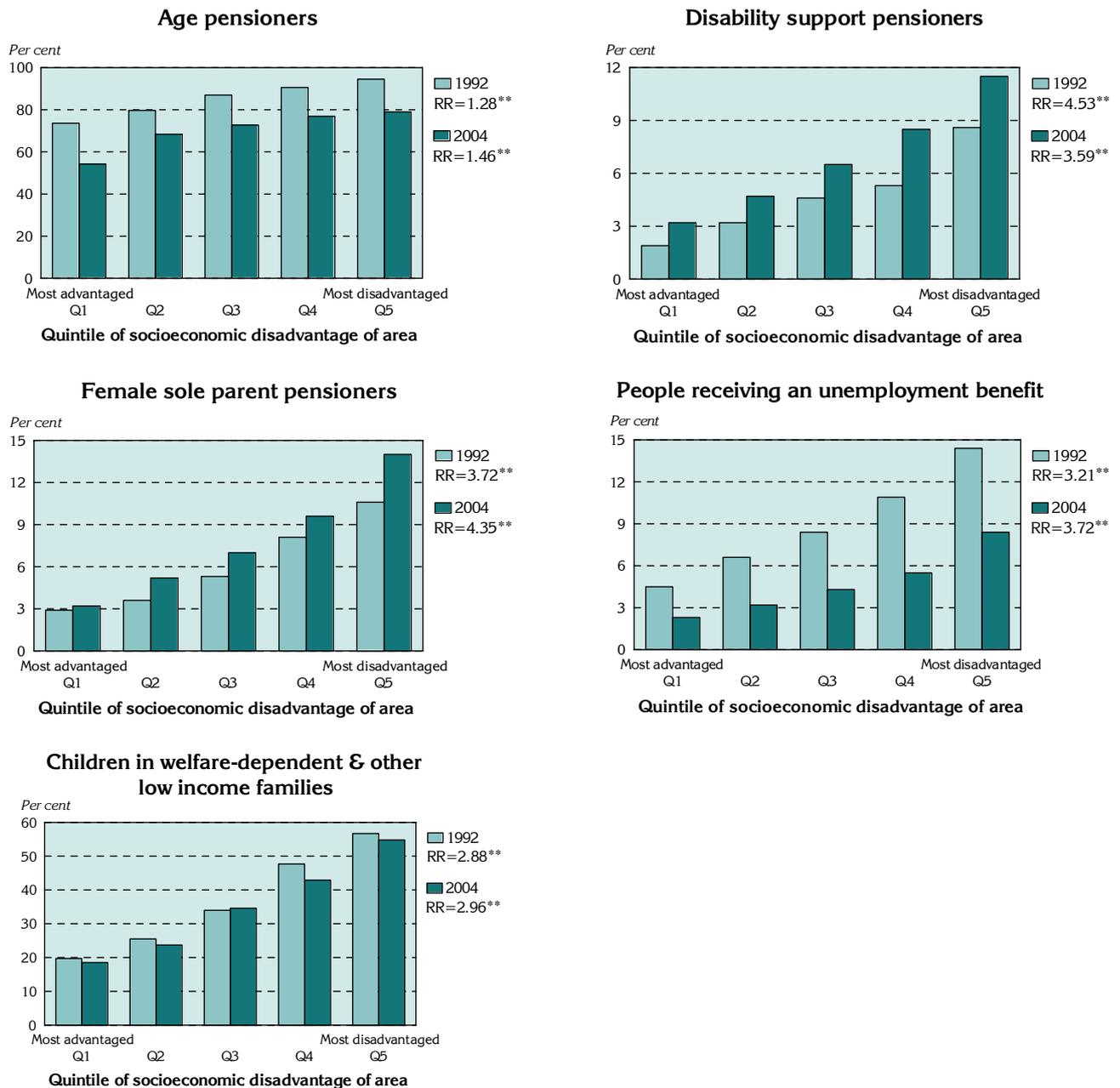
Metropolitan Adelaide: Chapter 5 Indicators

Apart from disability support pensioners, rate ratios for the pension and benefit groups have increased, indicating increasing concentration of these population groups into the most disadvantaged areas (Figure 9.2). The reduction in the proportion of the population in each quintile receiving an Age Pension has occurred because of the substantial increase in the denominator population on which the proportions were calculated, rather than a

reduction in the number of people dependent on Age Pension.

Each of the charts in Figure 9.2 shows a clear, continuous gradient in rates across the socioeconomic groupings.

Figure 9.2: Indicators of socioeconomic status (Chapter 5), change by socioeconomic disadvantage of area, Metropolitan Adelaide



Note: See referenced chapter for data definitions

Country South Australia: Chapter 4 Indicators

Although there are marked socioeconomic gradients evident in the majority of indicators for country South Australia (Figure 9.3), the differences across the quintiles are generally not as large as seen for Metropolitan Adelaide. There were some notable exceptions to this, including people identifying as being Aboriginal and/or Torres Strait Islander, people born overseas and resident for five years or more, poor proficiency in English, dwellings rented from the South Australian Housing Trust and dwellings without a motor vehicle.

Although full-time participation in education at age 16 years has increased overall, the gap in participation of young people in the disadvantaged

and most advantaged areas has also increased, from six per cent to 18%, the reverse of the trend in Metropolitan Adelaide.

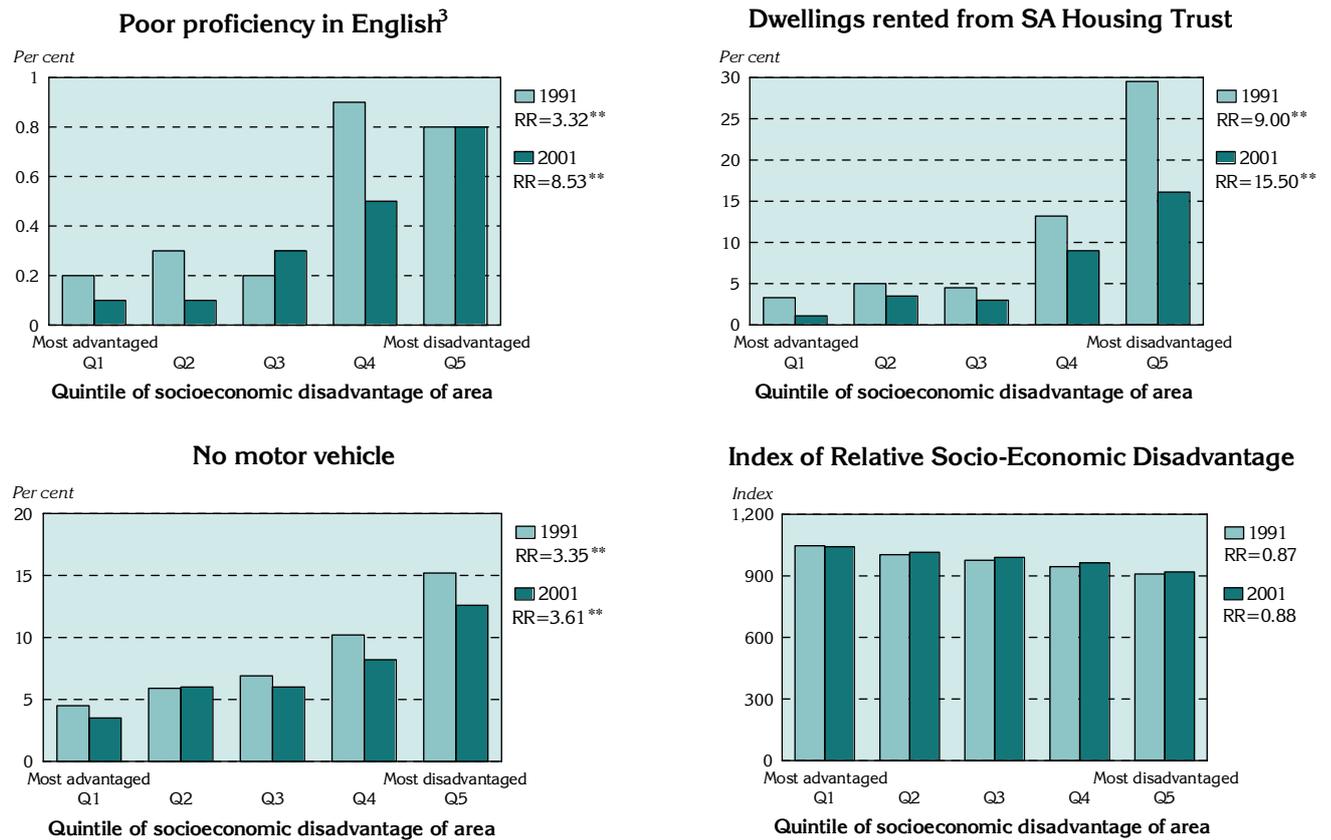
Overall, there was less inequality in country South Australia compared to Metropolitan Adelaide, as measured by the Index of Relative Socioeconomic Disadvantage. However, all of the charts show increasing inequality for country South Australia between the two time periods. The exception to this is for Aboriginal and Torres Strait Islander people where inequality has declined marginally, although it remains extreme at 13.40**.

Figure 9.3: Indicators of socioeconomic status (Chapter 4), change by socioeconomic disadvantage of area, country South Australia



Note: Footnotes are at the end of the figure

Figure 9.3: Indicators of socioeconomic status (Chapter 4), change by socioeconomic disadvantage of area, country South Australia ...cont



¹Unemployment rates in this chart were calculated from Census data: this measure generally produces a higher rate than the official unemployment estimates, which are mapped in Chapter 4

²Includes only people who were born in a predominantly non-English speaking country

³Includes only people who were born in a predominantly non-English speaking country and who reported not speaking English “well” or “at all”

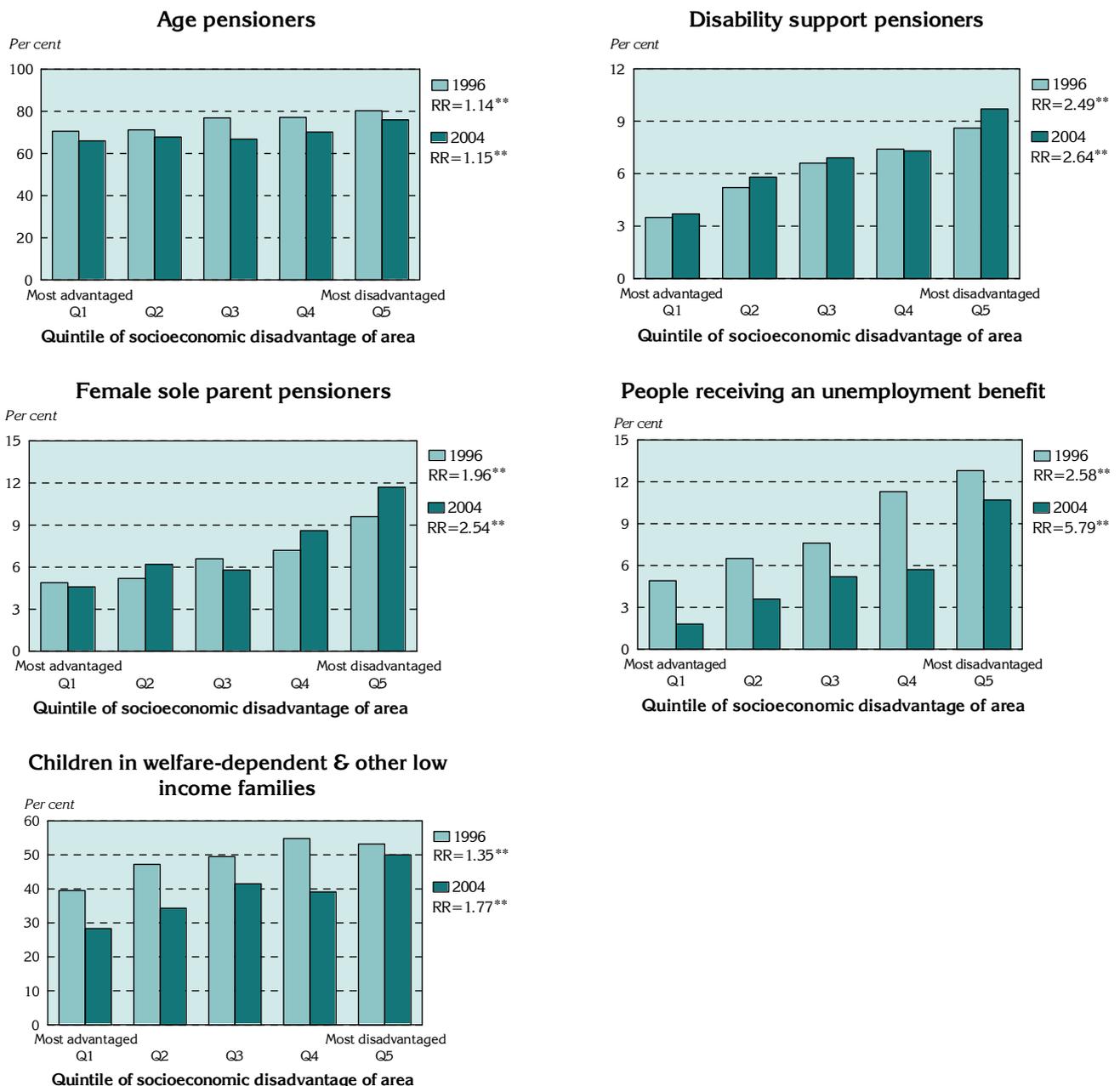
Note: See referenced chapter for data definitions

Country South Australia: Chapter 5 Indicators

Rate ratios for all the pension and benefit groups shown have increased (only marginally so for age pensioners, Figure 9.4). However, they are lower than for Metropolitan Adelaide, other than for people receiving unemployment benefits. Along with the substantial decline in the number of people in this group (Table 9.2), the rate ratio has more than doubled, to 5.79**, indicating a substantially increased concentration of this group in the most disadvantaged areas.

Increasing inequality is also evident for female sole parent pensioners, Disability Support Pensioners, and children in welfare-dependent and other low income families (although these variables increased between the two time periods).

Figure 9.4: Indicators of socioeconomic status (Chapter 5), change by socioeconomic disadvantage of area, country South Australia



Note: See referenced chapter for data definitions

Socioeconomic status by area

Indicators for which data are only available for the 2001 Census are shown below.

Metropolitan Adelaide: Chapter 4 Indicators

The first chart in Figure 9.5 shows the strong continuous socioeconomic gradient evident for jobless families with children less than 15 years of age, representing over four times (4.12) the proportion in Quintile 5 areas than in Quintile 1 areas.

SACE achievement scores have similar gradients for each of PES, PAS and SAS. Use of the Internet at home declines markedly across the quintiles, to under half the use in the poorest areas. Dependence on rent assistance increased by 41% between Quintiles 1 and 5.

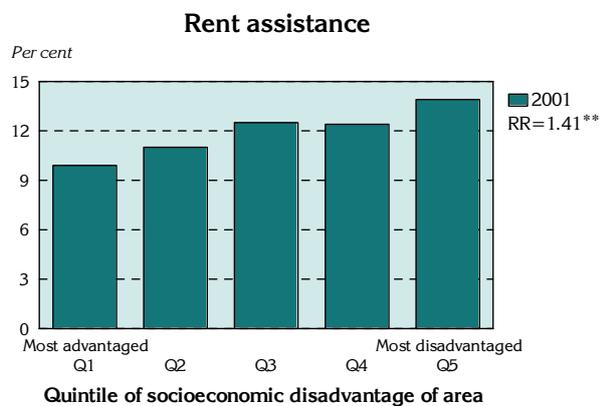
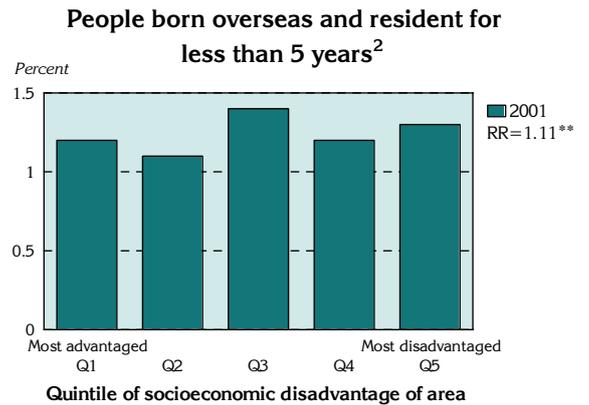
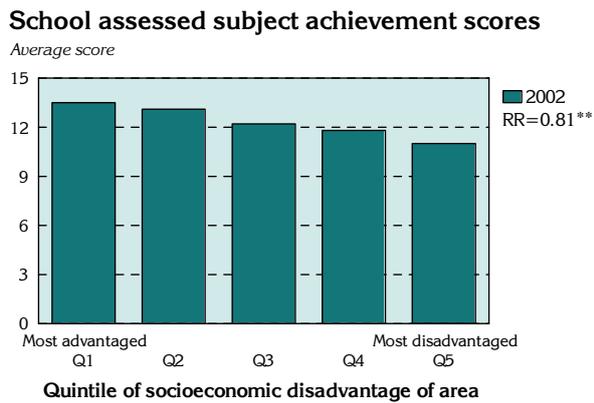
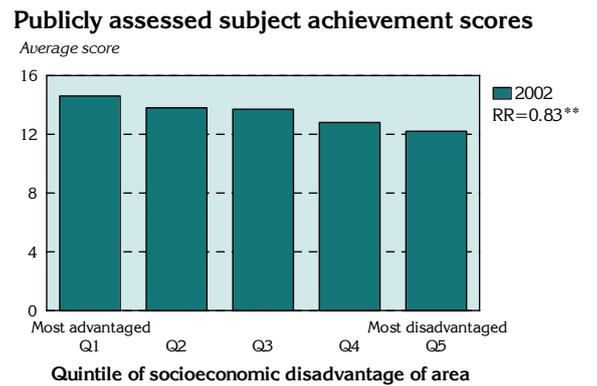
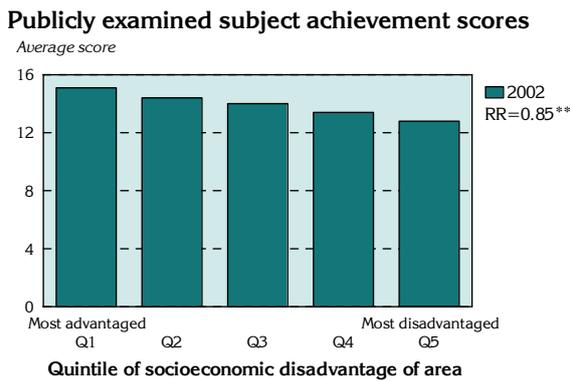
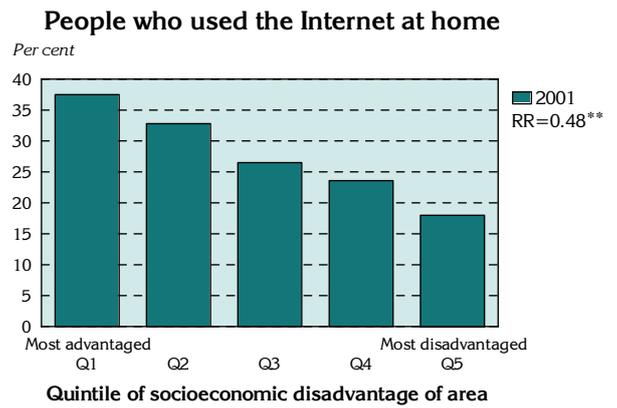
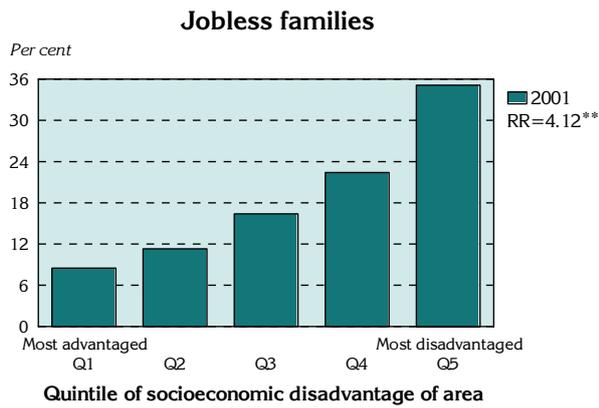
The rate ratio for people born overseas and resident for less than five years was the lowest at 1.11**; however, the greatest differential was between Quintiles 2 and 3.

Country SA: Chapter 4 Indicators

Although less marked than in Metropolitan Adelaide, the gradient in the proportion of families who are jobless is, nevertheless, steep (Figure 9.6).

Use of the Internet at home in the most disadvantaged areas is low, at some two thirds the level in the most advantaged areas; and rent assistance through Centrelink is equally important across Quintiles 2 to 4. Due to the very small numbers involved, the variable for people born overseas in a predominantly non-English speaking country has not been shown by quintile.

Figure 9.5: Indicators of socioeconomic status (Chapter 4), by socioeconomic disadvantage of area, Metropolitan Adelaide, 2001¹

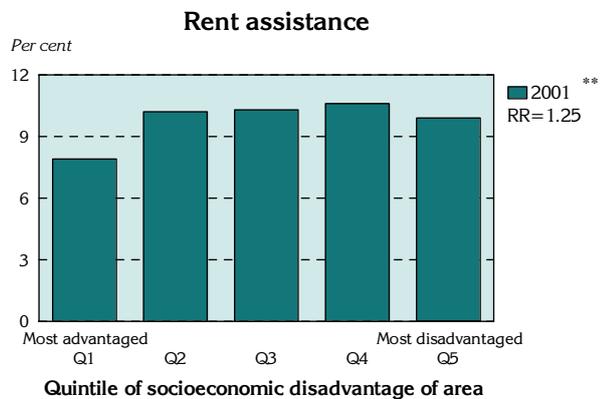
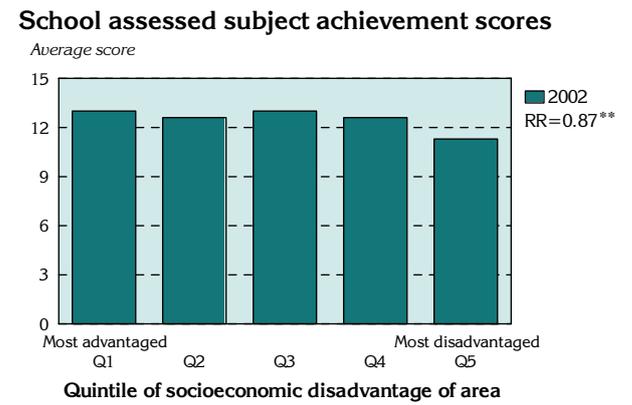
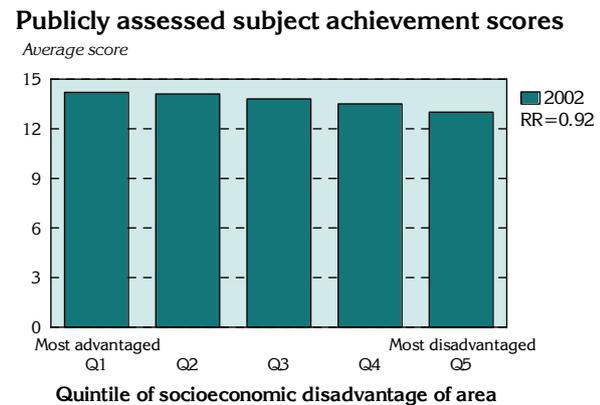
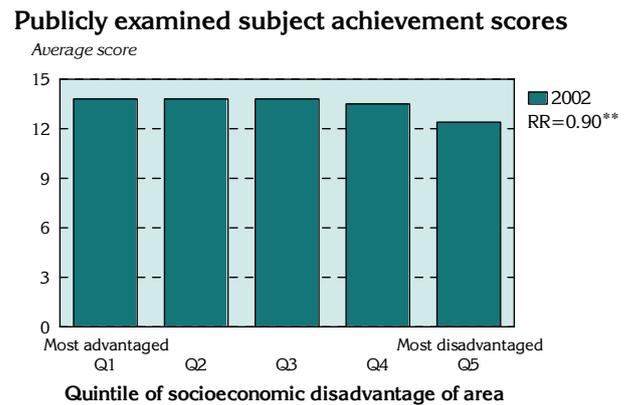
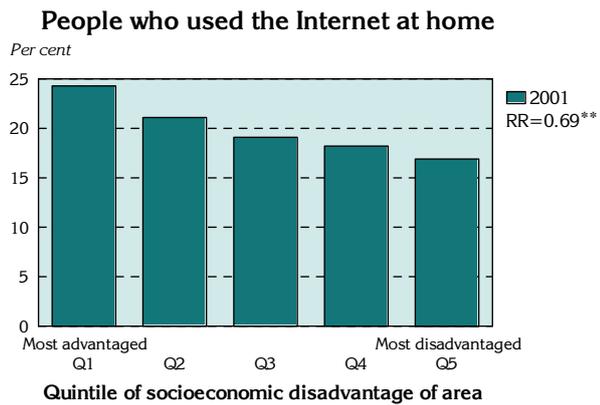
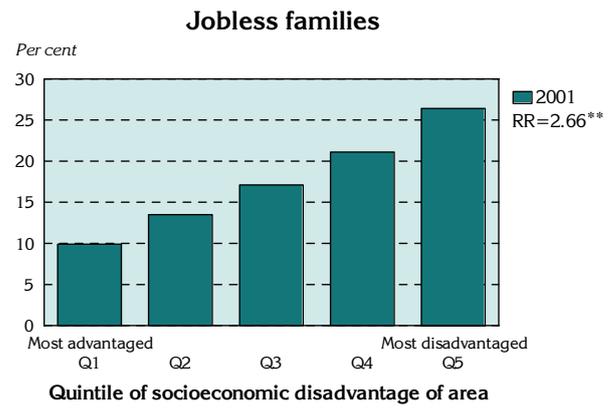
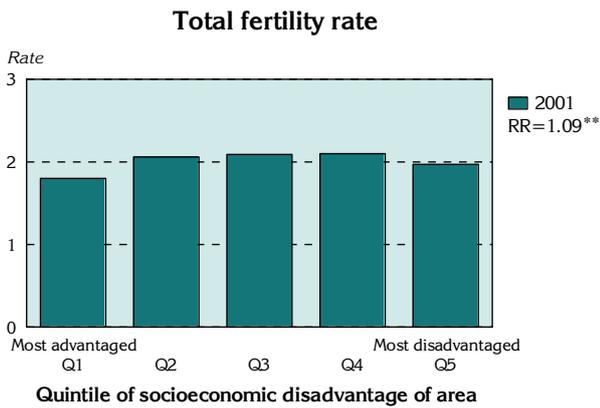


¹PES, PAS and SAS data are for 2002

²Includes only people who were born in a predominantly non-English speaking country

Note: See referenced chapter for data definitions

Figure 9.6: Indicators of socioeconomic status (Chapter 4), by socioeconomic disadvantage of area, country South Australia, 2001¹



¹ Quintile of socioeconomic disadvantage of area
 PES, PAS and SAS data are for 2002
 Note: See referenced chapter for data definitions

Change in health status

The changes shown in Tables 9.3 and 9.4 provide evidence of both improvements and concerning trends.

Metropolitan Adelaide: Chapter 6 Indicators

The number and rate of people dying prematurely has decreased markedly over the ten years to 1999 to 2002. The numbers of new cases of cancer, for all cancers, cancer of the female breast and prostate cancer have all increased by more than

one fifth; in contrast, lung cancer incidence declined by 5.9%. There were marked increases in the proportion of four year old boys assessed as being overweight (not obese) and obese (although the numbers varied little, the rate increased due to a smaller increase in the number of four year old boys, reflected in Table 9.1). There was also a large increase in the rate of termination of pregnancy, and an increase of 2.6% for low birthweight babies (Table 9.3).

Table 9.3: Change in health status indicators (Chapter 6), Metropolitan Adelaide

Indicator	Period	Number per year		% change	
		Period 1	Period 2	No. ¹	Rate/ % ²
Low birthweight babies	1989-92: 2000-02	943	875	-7.2	2.6
Termination of pregnancy	1990-92: 2000-02	3,783	4,531	19.8	22.9
Childhood immunisation (12 months of age)	1998: 2002	12,288	14,349	16.8	12.1
Overweight four year old boys	1995-96: 2000-03	451	467	3.5	44.9
Obese four year old boys	1995-96: 2000-03	199	188	-5.5	28.6
Cancer incidence: total	1986-93: 1998-2002	4,183	5,611	34.1	22.5
Cancer incidence: lung	1986-93: 1998-2002	474	511	7.8	-5.9
Cancer incidence: female breast	1986-93: 1998-2002	498	732	47.0	20.7
Cancer incidence: prostate	1986-93: 1998-2002	445	727	63.4	27.1
Infant deaths	1989-93: 1999-2002	67	56	-33.0	-44.6
Premature male deaths: ages 15-64 years	1989-93: 1999-2002	1,022	897	-28.8	-26.1
Premature female deaths: ages 15-64 years	1989-93: 1999-2002	575	433	-24.6	-16.5

¹Percentage change in the numbers shown between the two time periods

²Percentage change in the rate or proportion between the two time periods

Note: See referenced chapter for data definitions

Country SA: Chapter 6 Indicators

There were larger declines in infant death and premature male death rates in country South Australia than in Metropolitan Adelaide. Greater increases were found for a number of indicators of health status, including overweight and obese four year old boys, termination of pregnancy and low birthweight babies.

The incidence of lung cancer increased marginally between the two time periods, in contrast to Metropolitan Adelaide, where lung cancer incidence declined.

Table 9.4: Change in health status indicators (Chapter 6), country South Australia

Indicator	Period	Number per year		% change	
		Period 1	Period 2	No. ¹	Rate/ % ²
Low birthweight babies	1989-92: 2000-02	359	333	-7.2	7.4
Termination of pregnancy	1990-92: 2000-02	799	968	21.2	32.0
Childhood immunisation	1998: 2002	4,927	4,777	-3.0	12.9
Overweight four year old boys	1995-96: 2000-03	174	300	72.4	100.0
Obese four year old boys	1995-96: 2000-03	68	99	45.6	66.7
Cancer incidence: total	1986-93: 1998-2002	1,422	2,087	46.8	21.0
Cancer incidence: lung	1986-93: 1998-2002	149	194	30.2	1.6
Cancer incidence: female breast	1986-93: 1998-2002	154	256	66.2	21.1
Cancer incidence: prostate	1986-93: 1998-2002	164	297	81.1	25.9
Infant deaths	1989-93: 1999-2002	34	26	-23.5	-66.2
Premature male deaths: ages 15-64 years	1989-93: 1999-2002	467	416	-10.9	-28.0
Premature female deaths: ages 15-64 years	1989-93: 1999-2002	225	230	2.2	-10.2

¹Percentage change in the numbers shown between the two time periods

²Percentage change in the rate or proportion between the two time periods

Note: See referenced chapter for data definitions

Health status by area: change over time

Indicators for which data are only available for one period are shown in Figure 9.9 and Figure 9.10.

Metropolitan Adelaide: Chapter 6 Indicators

The majority of indicators of health status (Figure 9.7) show a decline in inequality between the two periods analysed, although the extent of inequality remains high among these variables. Inequality in termination of pregnancy declined, although there was an overall increase in the rate of terminations.

The rate ratio of total cancer incidence declined to 1.00, primarily due to a reduction of cancer in the most disadvantaged quintile. This occurred despite an overall increase in detection of new cancers. There was also a decline in inequality for prostate cancer incidence, despite an overall increase in detection of prostate cancer. The gradient for this variable is reversed, with higher rates in the higher quintile groups; the reduction in inequality is primarily due to a reduction in the incidence of prostate cancer for males living in Quintile 1 areas.

There was an overall reduction, as well as a reduction in the rate ratios, for both infant deaths and deaths of females aged 15 to 64 years. The high infant death rate in the most advantaged areas (higher than in 1986) raises issues of data quality, possibly related to small numbers of deaths and accuracy of address coding. Had it not been for this rate, the rate ratio would most likely have been much higher. For example, the ratio of infant death rates between the most disadvantaged areas (Quintile 5) and the areas in Quintile 2 is markedly higher, at 2.34^{**}: this compares with a rate ratio between Quintile 5 and Quintile 2 for the period 1989 to 1993, of 1.95^{**}.

Premature male deaths also declined; however, there was very little change in the rate ratio (although Quintiles 1 and 5 appear to be the same in each period, there is a marginal difference between the two time periods which is not visible due to the scale of the graph).

In addition to an increase in breast cancer incidence, there was a marginal increase in inequality. As with prostate cancer, there are higher rates of breast cancer detection in women in the most advantaged quintile than in the most disadvantaged quintile.

There was an increase in the proportion of low birthweight babies born to residents of areas in the most disadvantaged quintile and in Quintile 3. These increases resulted in an overall increase in low birthweight babies, despite declines in Quintiles 1, 2 and 4.

There was an increase in the proportion of overweight four year old boys across each quintile, with the smallest increase in the most disadvantaged areas. This resulted in a reduction in inequality. Increases were also recorded in each quintile for four year old boys assessed as being obese, although the increases were greatest in the more disadvantaged areas, resulting in an increase in inequality.

The chart on immunisation status at one year of age shows only marginal inequality. However, Quintile 5 was the only quintile where the proportion of children immunised (92.2%) was below 95%. This is significant, as 95% of one year old infants must be immunised to protect the whole population of children this age against infection.

Figure 9.7: Indicators of health status (Chapter 6), change by socioeconomic disadvantage of area, Metropolitan Adelaide

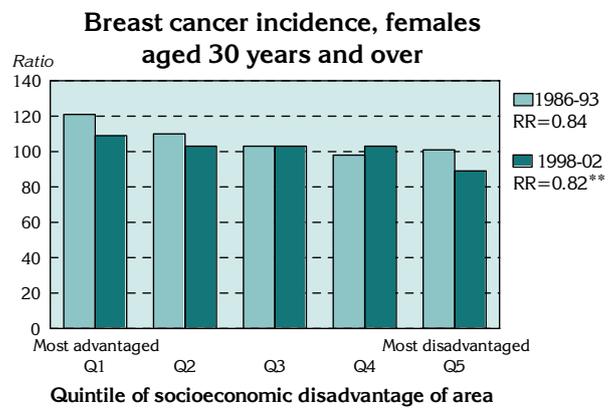
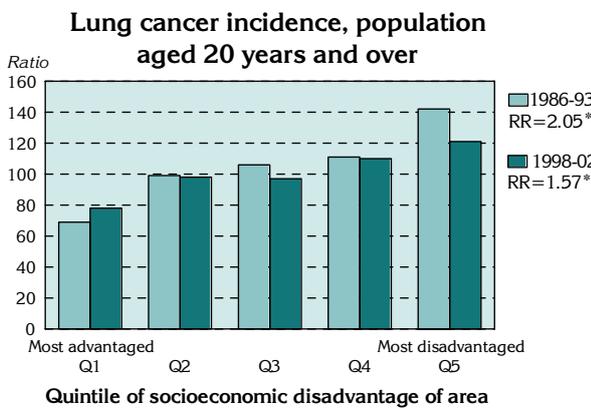
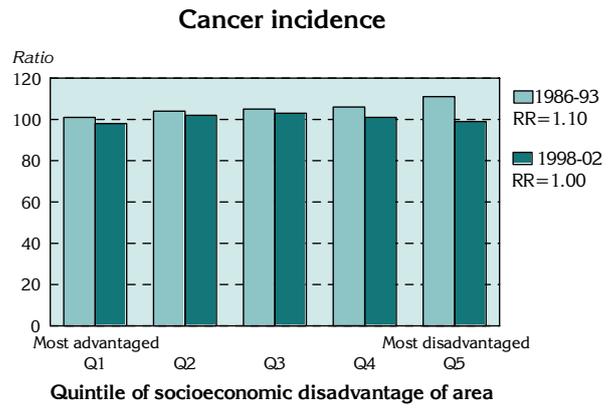
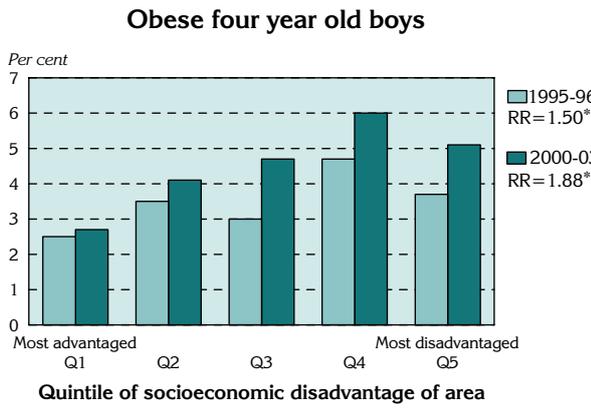
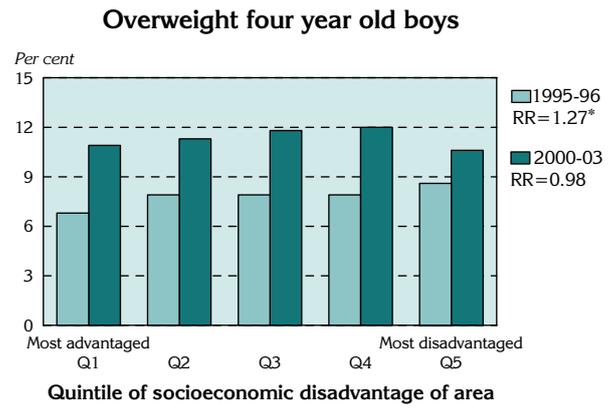
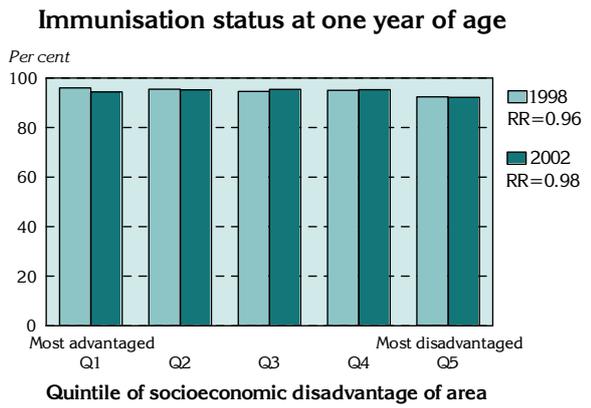
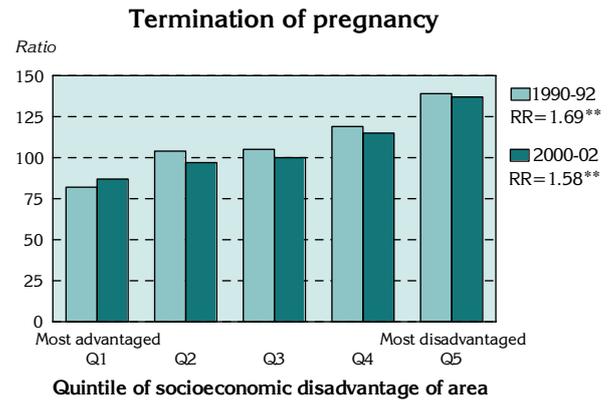
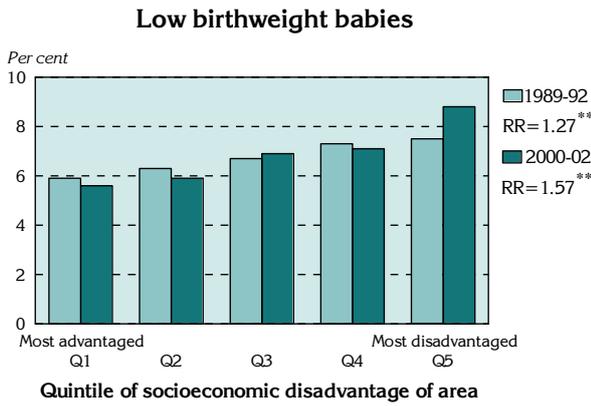
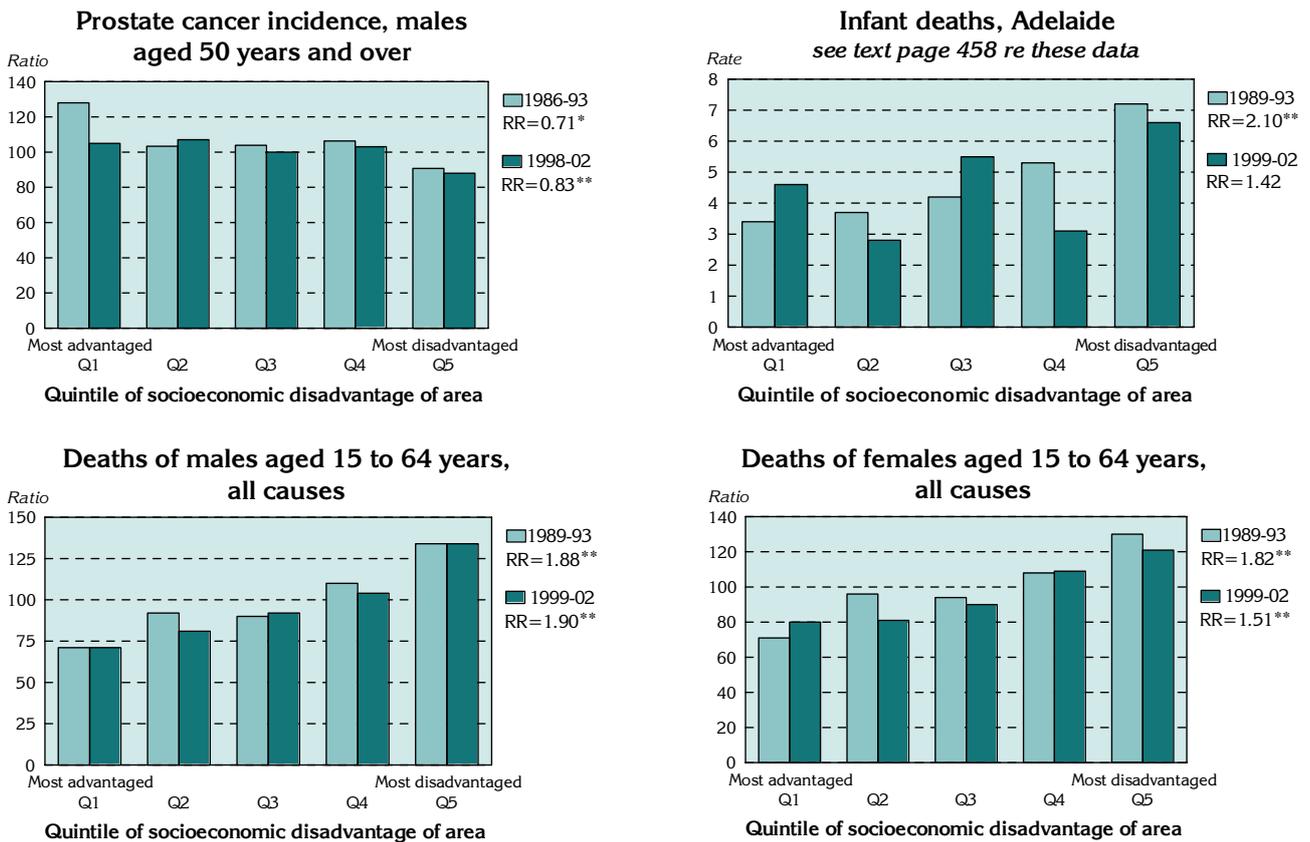


Figure 9.7: Indicators of health status (Chapter 6), change by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont



Note: See referenced chapter for data definitions

Country SA: Chapter 6 Indicators

The rate ratios for the indicators presented in Figure 9.8 show that inequality also exists in the country for these variables; however, a socioeconomic gradient is evident for fewer indicators than is the case for Metropolitan Adelaide. This may, in part, reflect issues with the measure of socioeconomic status used, the IRSD which, in the opinion of the authors, is less applicable in sparsely settled areas, in particular, those areas with relatively large Indigenous populations.

Socioeconomic gradients are apparent for lung cancer incidence and premature deaths of both males and females. Each of these indicators also recorded increasing inequality, as did termination of pregnancy and prostate cancer.

There were declines in inequality for the indicators of infant deaths and low birthweight babies; however, the extent of inequality in the later period remained high.

The rate ratio for overweight four year old boys declined from 1.34 to 1.19; the highest proportion of overweight boys was in Quintile 4, with a rate ratio of 1.40** between Quintiles 4 and 1.

Indicators suggesting only marginal inequality in health status include immunisation status at one year of age, obese four year old boys and cancer incidence.

Figure 9.8: Indicators of health status (Chapter 6), change by socioeconomic disadvantage of area, country South Australia

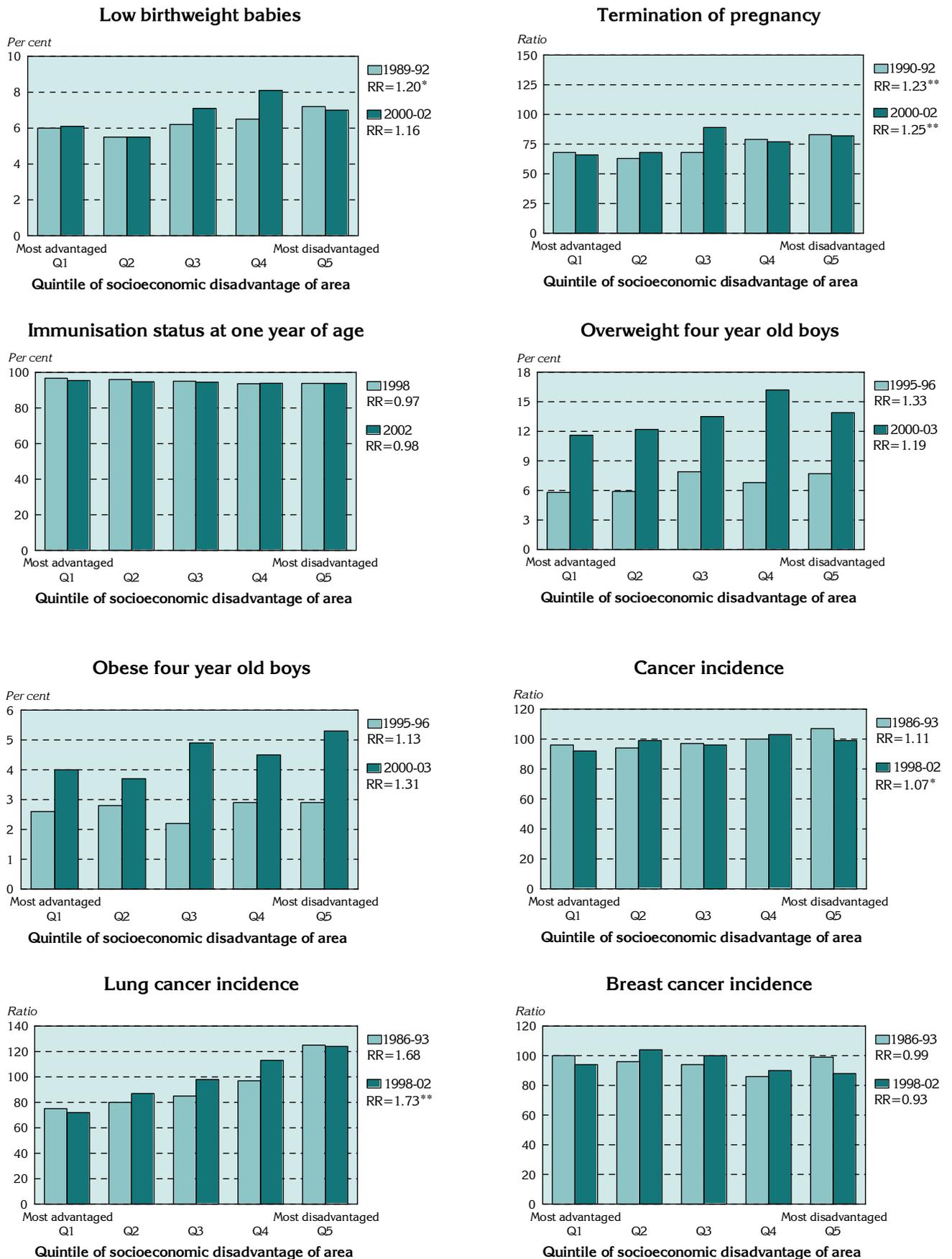
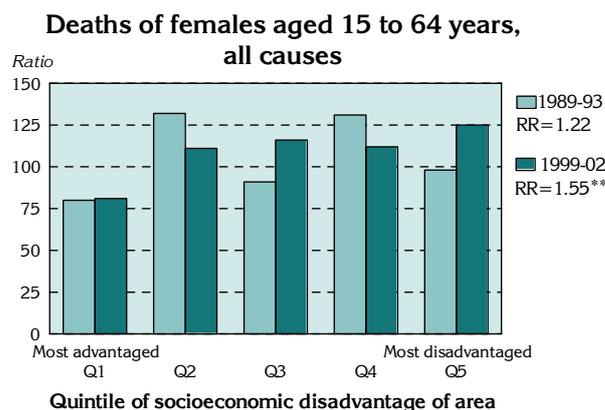
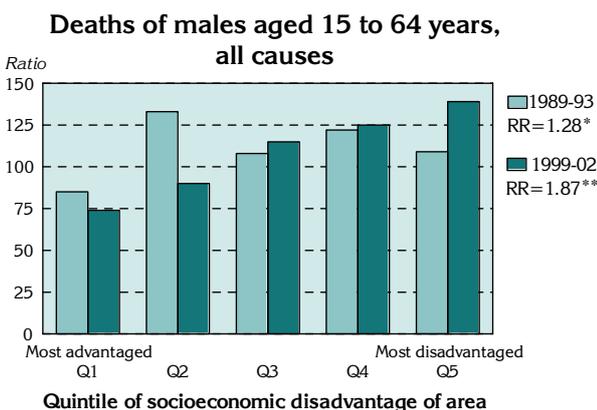
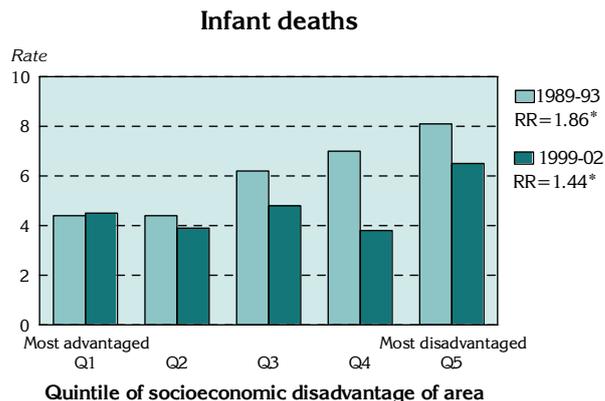
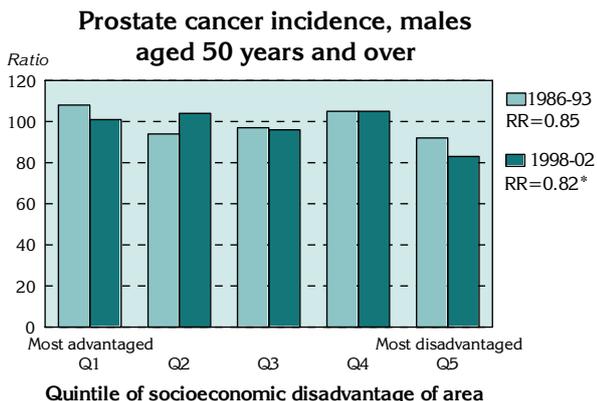


Figure 9.8: Indicators of health status (Chapter 6), change by socioeconomic disadvantage of area, country South Australia ...cont



Note: See referenced chapter for data definitions

Health status by area

Indicators for which data are only available for one period are shown below.

Metropolitan Adelaide: Chapter 6 Indicators

There is a strong, continuous socioeconomic gradient in rates of smoking during pregnancy, with 2.32** times the number of women in the most disadvantaged areas (compared with the most advantaged areas) reporting smoking during their pregnancy (Figure 9.9); the rate ratio for deaths from avoidable causes is also very high, being 1.72**. Both measures of self-reported health (the K-10 and fair or poor health) have notable socioeconomic gradients. Of the estimates of prevalence of chronic disease, there are clear gradients for diabetes type 2, mental health, arthritis, osteoarthritis and osteoporosis in females.

Gradients were also evident for estimates of risk factors, although there were higher rates in the most advantaged quintiles for overweight males and females and high health risk due to alcohol consumed.

For 12 year old children with no decayed, missing or filled teeth, the socioeconomic gradient is the reverse, with 16% fewer children in the most disadvantaged areas having a good outcome on this measure.

Country SA: Chapter 6 Indicators

In country South Australia, there is a very strong socioeconomic gradient evident for the indicator of avoidable mortality and a strong gradient in rates of smoking during pregnancy (Figure 9.10).

The chart of 12 year old children with no decayed, missing or filled teeth shows a relatively even distribution across the socioeconomic groupings of areas.

Figure 9.9: Indicators of health status (Chapter 6) by socioeconomic disadvantage of area, Metropolitan Adelaide

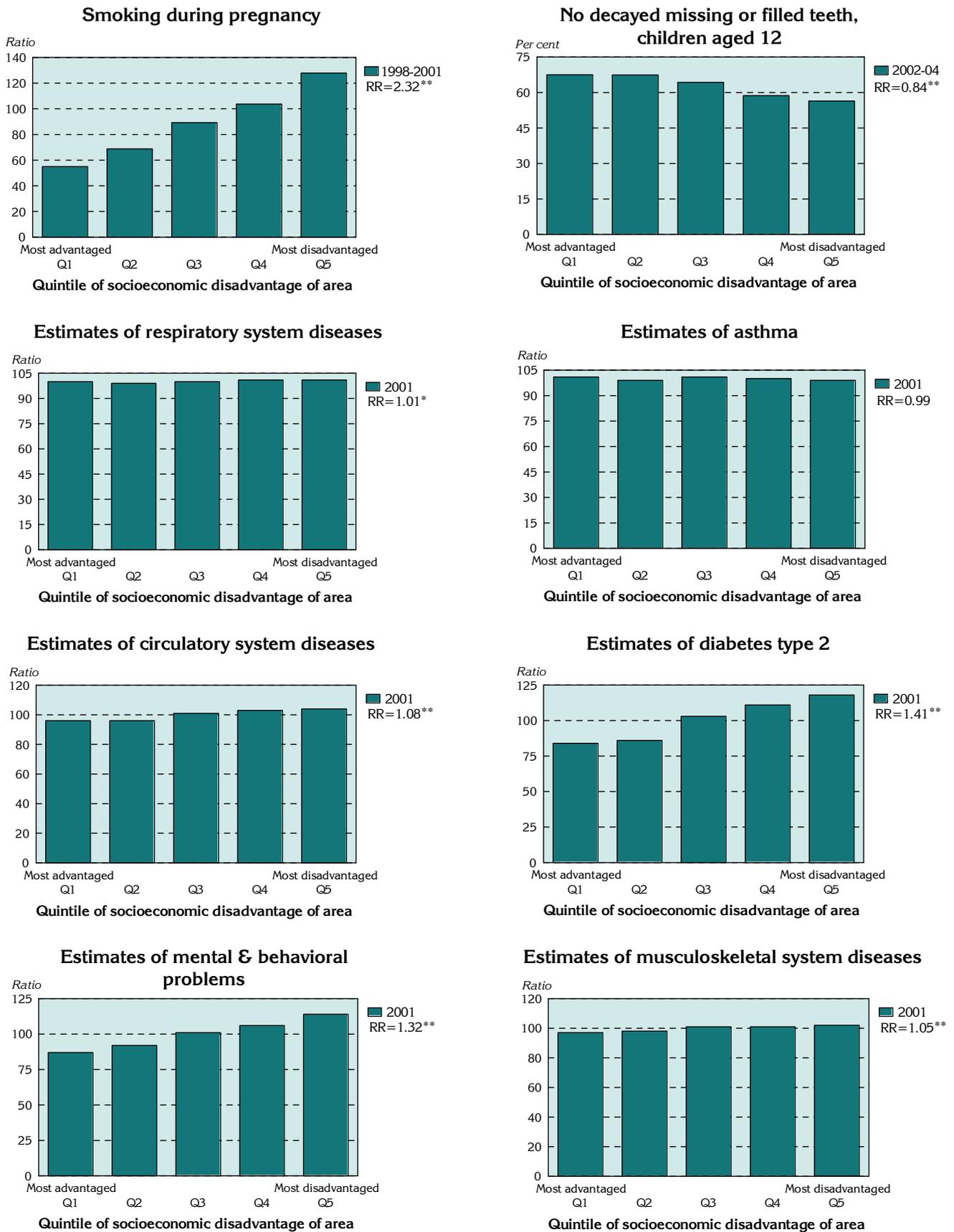
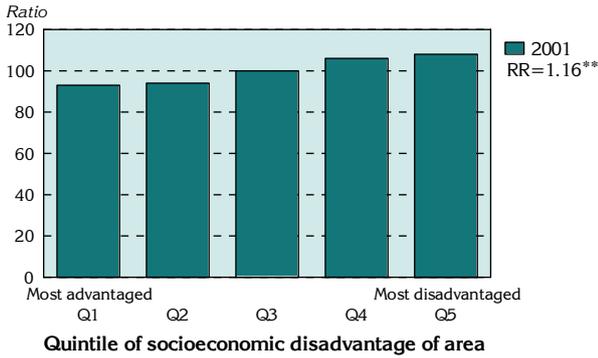
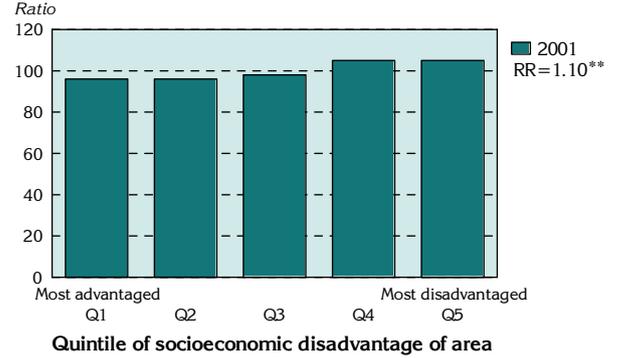


Figure 9.9: Indicators of health status (Chapter 6) by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont

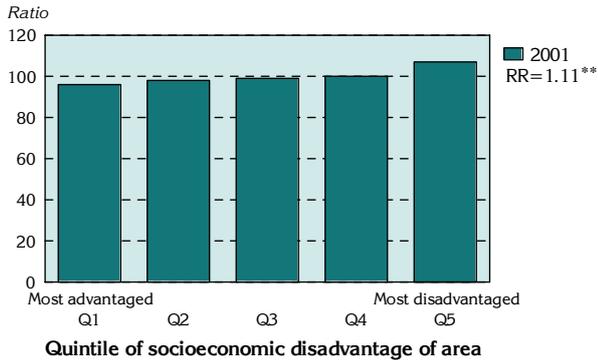
Estimates of arthritis



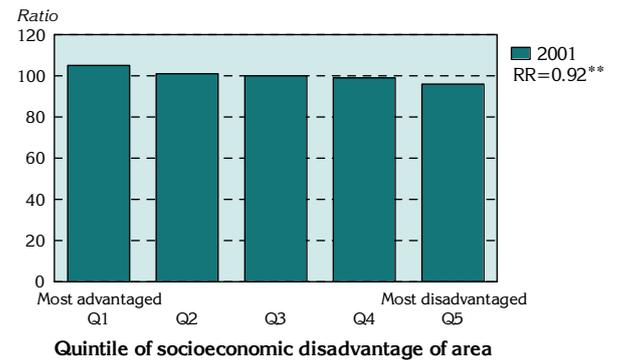
Estimates of osteoarthritis



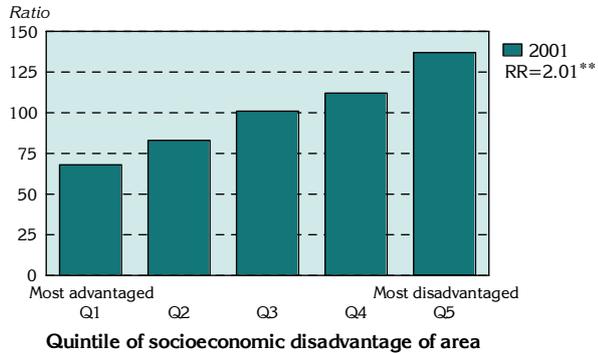
Estimates of females with osteoporosis



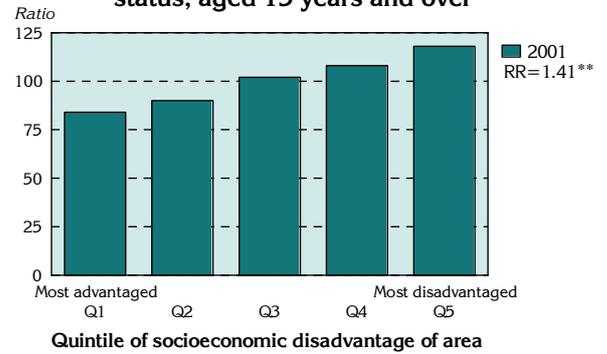
Estimates of injury events



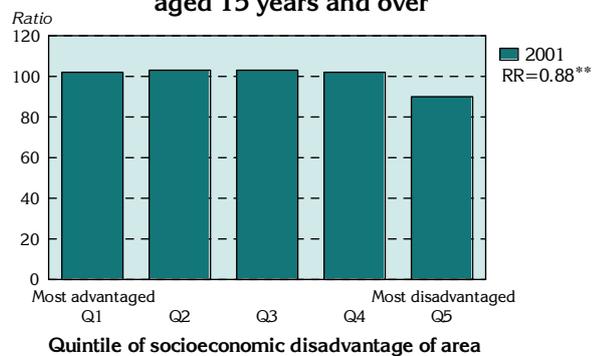
Estimates of very high psychological distress levels (K10), aged 18 years and over



Estimates of fair or poor self-assessed health status, aged 15 years and over



Estimates of overweight (not obese) males aged 15 years and over



Estimates of obese males, aged 15 years and over

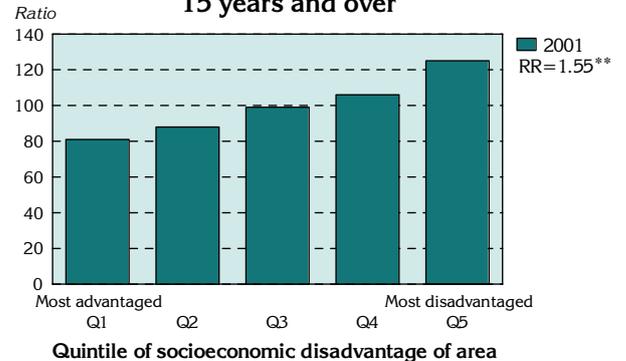


Figure 9.9: Indicators of health status (Chapter 6) by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont

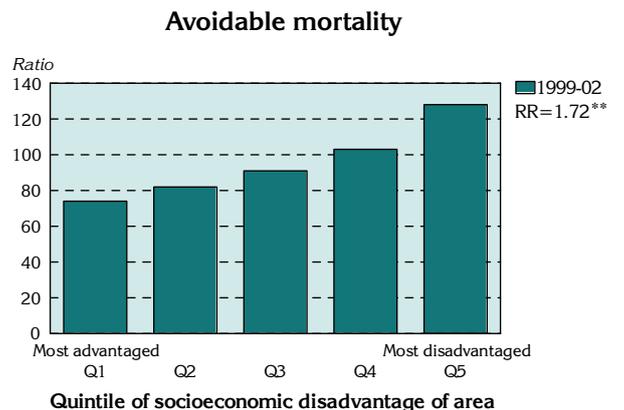
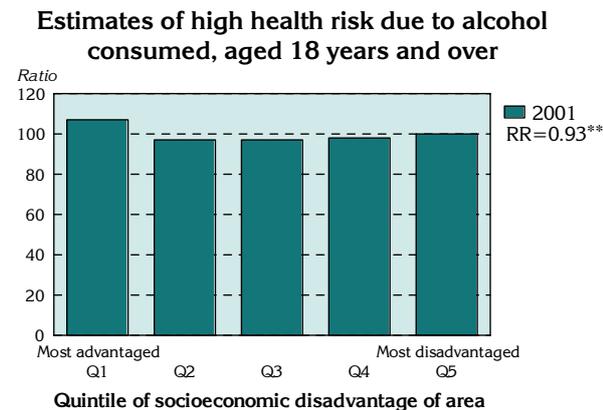
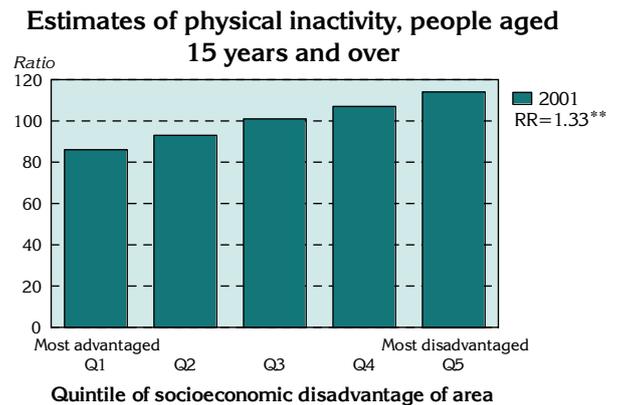
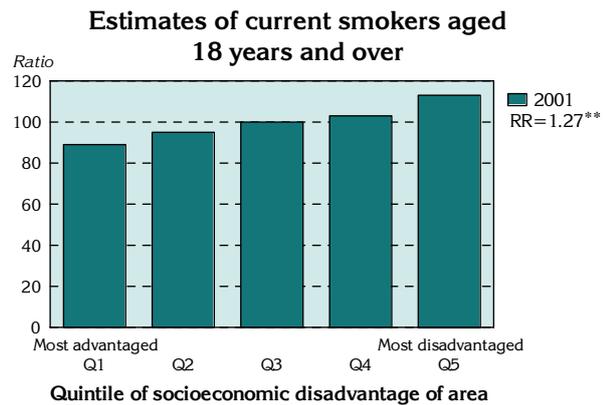
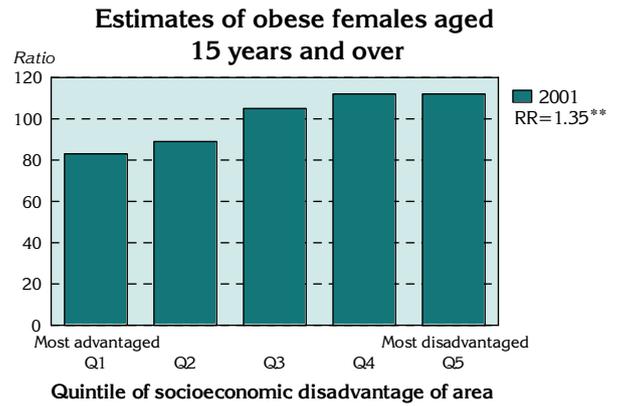
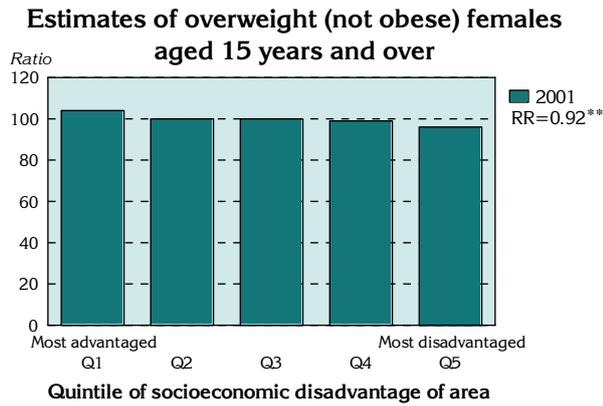
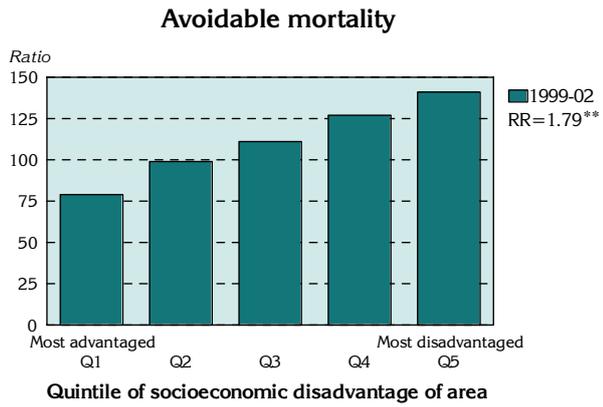
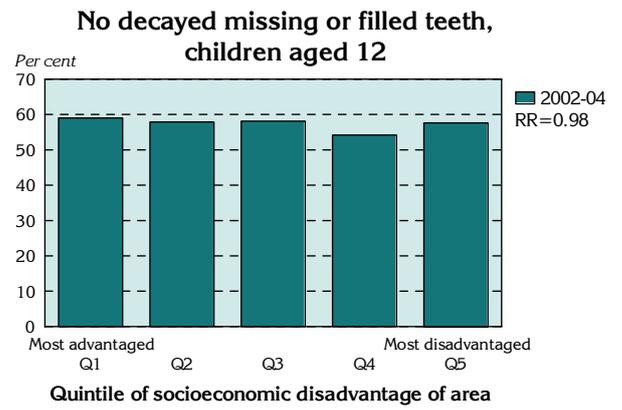
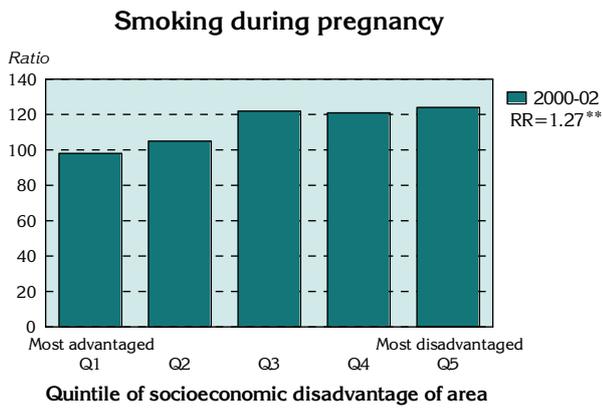


Figure 9.10: Indicators of health status, by socioeconomic disadvantage of area, country South Australia



Note: See referenced chapter for data definitions

Change in use of services

Metropolitan Adelaide: Chapter 7 Indicators

The change in indicators in Table 9.5 shows declines in the use of community health services and in the rate of GP services to males and females. These declines were offset by increasing admissions to hospitals and domiciliary care services.

Table 9.5: Change in indicators of service use (Chapter 7), Metropolitan Adelaide

Indicator	Period	Number		% change	
		Period 1	Period 2	No. ¹	Rate/% ²
Community health services	1991/92: 2001/02	12,003	11,748	-2.1	-14.5
Child and Adolescent Mental Health Services	1997-99: 2001-03	2,575	2,560	-0.6	-1.5
Domiciliary care service clients	1989: 2003	7,425	9,648	30.0	33.4
Population per GP	1996/97: 2002/03	910	885	-2.7	10.0
GP services to males	1985/86: 2002/03	1,822,876	2,240,162	22.9	-13.0
GP services to females	1985/86: 2002/03	2,748,311	3,259,094	18.6	-13.6
Outpatient department attendances	1981/2003-04	627,654	990,980	57.9	n.a.
Admissions to public acute & private hospitals	1992/93:2003/04	265,980	368,141	38.4	30.9
Admissions to public acute hospitals	1992/93:2003/04	165,460	205,972	24.5	23.0
Admissions to private hospitals	1992/93:2003/04	98,818	154,381	56.2	43.9
Admissions of males	1992/93:2003/04	115,213	163,205	41.7	26.7
Admissions of females	1992/93:2003/04	150,767	204,936	35.9	30.6
Hospital booking lists	1992: 2004	2,738	3,063	11.9	6.3

¹Percentage change in the numbers shown between the periods shown

²Percentage change in the rate or proportion between the two time periods

Note: See referenced chapter for data definitions

Country SA: Chapter 7 Indicators

In country South Australia, there were extremely large increases in the use of Child and Adolescent Mental Health Services and admissions to private hospitals. There were also increases in the other categories of hospital admission. The increase in population per GP (representing a decline in the

supply of GPs) reflects the continuing, and seemingly growing, difficulty in attracting GPs to country South Australia. There were also declines in GP services to males and females.

Table 9.6: Change in indicators of service use (Chapter 7), country South Australia

Indicator	Period	Number		% change	
		Period 1	Period 2	No. ¹	Rate/% ²
Child and Adolescent Mental Health Services	1997-99: 2001-03	1,102	1,764	60.1	64.3
Population per GP	1996/97: 2002/03	251	303	20.7	-11.7
GP services to males	1996: 2002/03	619,100	753,323	21.7	-6.7
GP services to females	1996: 2002/03	1,027,854	1,023,964	-0.4	-5.8
Admissions to public acute & private hospitals	1995/96: 2003/04	124,726	146,714	17.6	14.8
Admissions to public acute hospitals	1995/96: 2003/04	106,056	115,674	9.1	5.3
Admissions to private hospitals	1995/96: 2003/04	18,672	31,040	66.2	74.2
Admissions of males	1995/96: 2003/04	57,756	69,186	19.8	10.4
Admissions of females	1995/96: 2003/04	66,975	77,528	15.8	15.7

¹Percentage change (in the numbers shown) between the periods shown

²Percentage change in the rate or proportion between the two time periods

Note: See referenced chapter for data definitions

Use of services by area: change over time

Indicators for which data are only available for one period are shown in Figure 9.13 and Figure 9.14.

Metropolitan Adelaide: Chapter 7 Indicators

There are strong socioeconomic gradients evident in many of the charts for use of services (Figure 9.11). The most extreme difference in use of these services is evident for community health services, where the rate ratio is an extremely high 8.31^{**}; this is likely to reflect not only the location of these services, but their value to groups in the population with limited ability to access similar services in the private sector. There was also an increase in the difference, with the rate ratio having doubled between the two time periods.

Other indicators with marked differences in the use of services (indicated by an increase in the rate ratio) include domiciliary care service clients, GP services to males and females, outpatient department attendances, admissions to public acute hospitals and admissions to private hospitals.

The difference in use of Child and Adolescent Mental Health Services between areas in Quintile 5 and Quintile 2 declined marginally between the two time periods, but remaining very high, with a rate ratio above two. Declines were recorded in the differences in rates of total admissions and admissions to private hospitals; however, the disparity in admissions to public acute hospitals increased. Despite declining, the differences in admissions of males and females remained above ten per cent.

There was a reduction in the extent of inequality in lengthy waits on hospital booking lists, primarily due to declines in the most disadvantaged areas; despite this reduction, the difference remains at over two and a half times.

There was a marginal decline in the rate ratio for population per GP, down to 1.15, indicating 15% more people per GP in the most disadvantaged areas. However, the lowest levels of provision of GPs were in areas in Quintile 4 (highest rate of population per GP). The rate ratio between Quintile 4 and Quintile 1 is 1.55^{**}.

Figure 9.11: Indicators of service use (Chapter 7), change by socioeconomic disadvantage of area, Metropolitan Adelaide

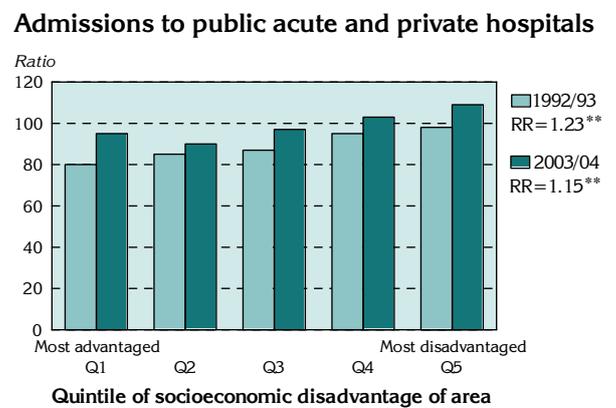
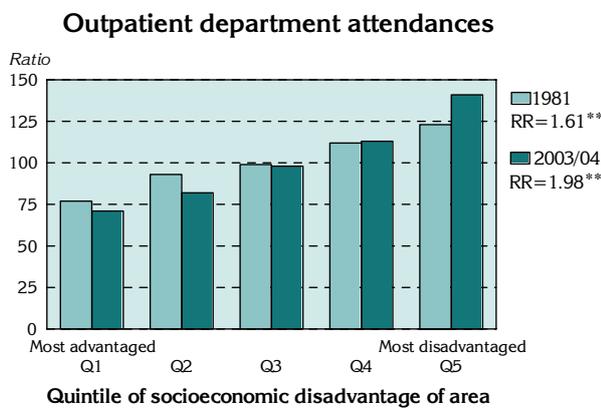
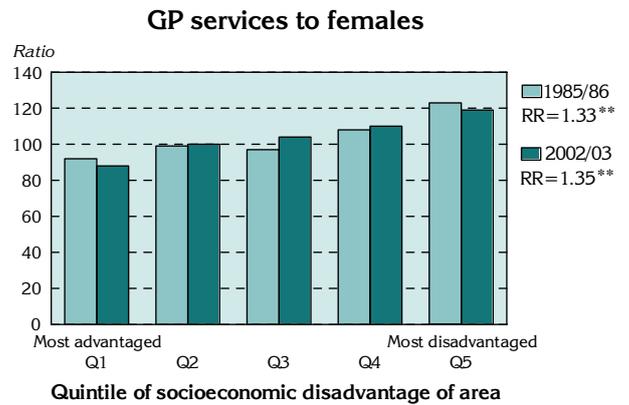
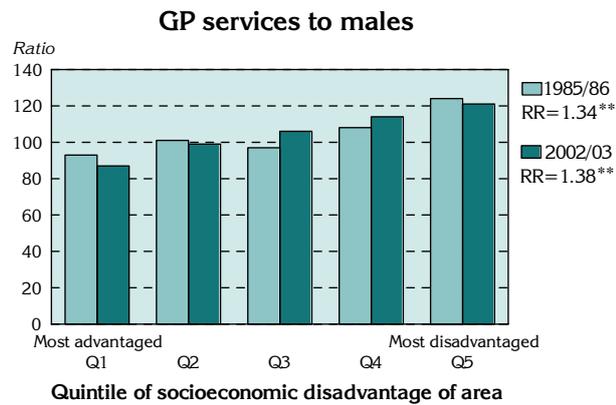
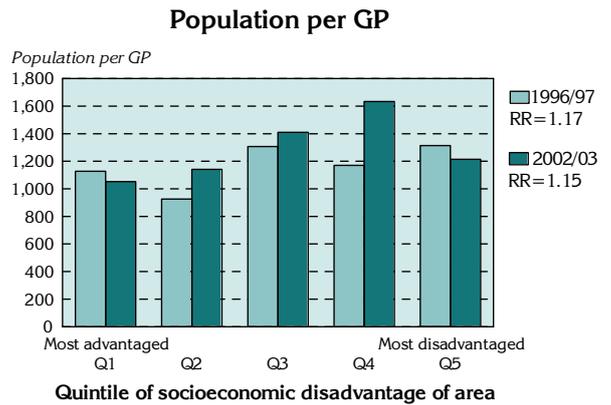
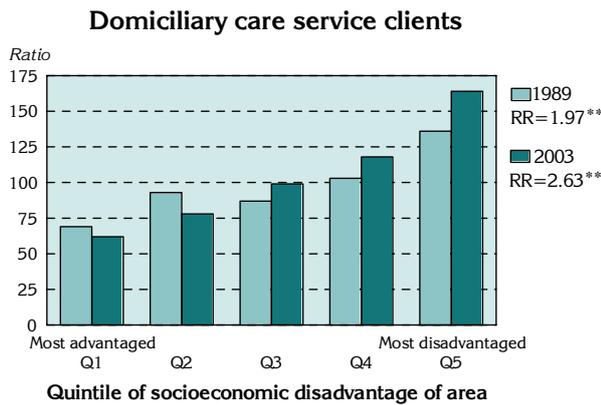
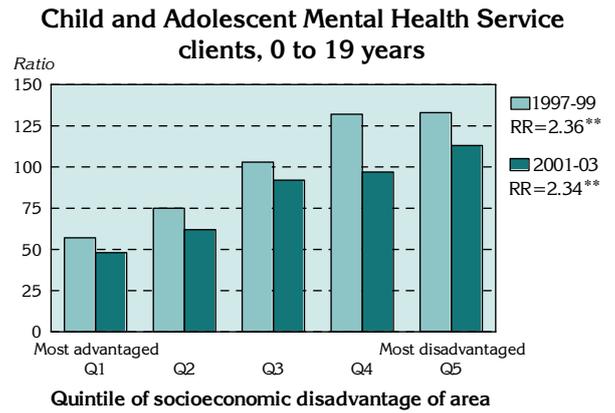
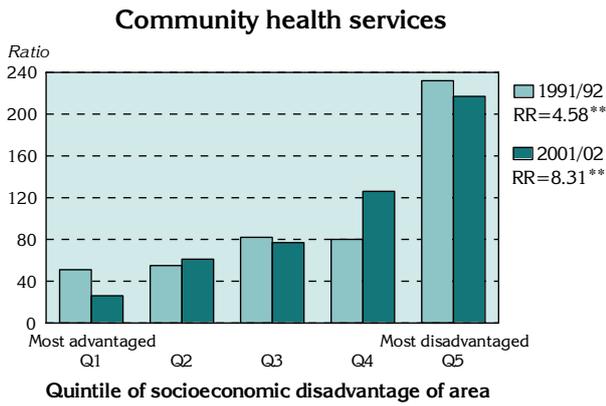
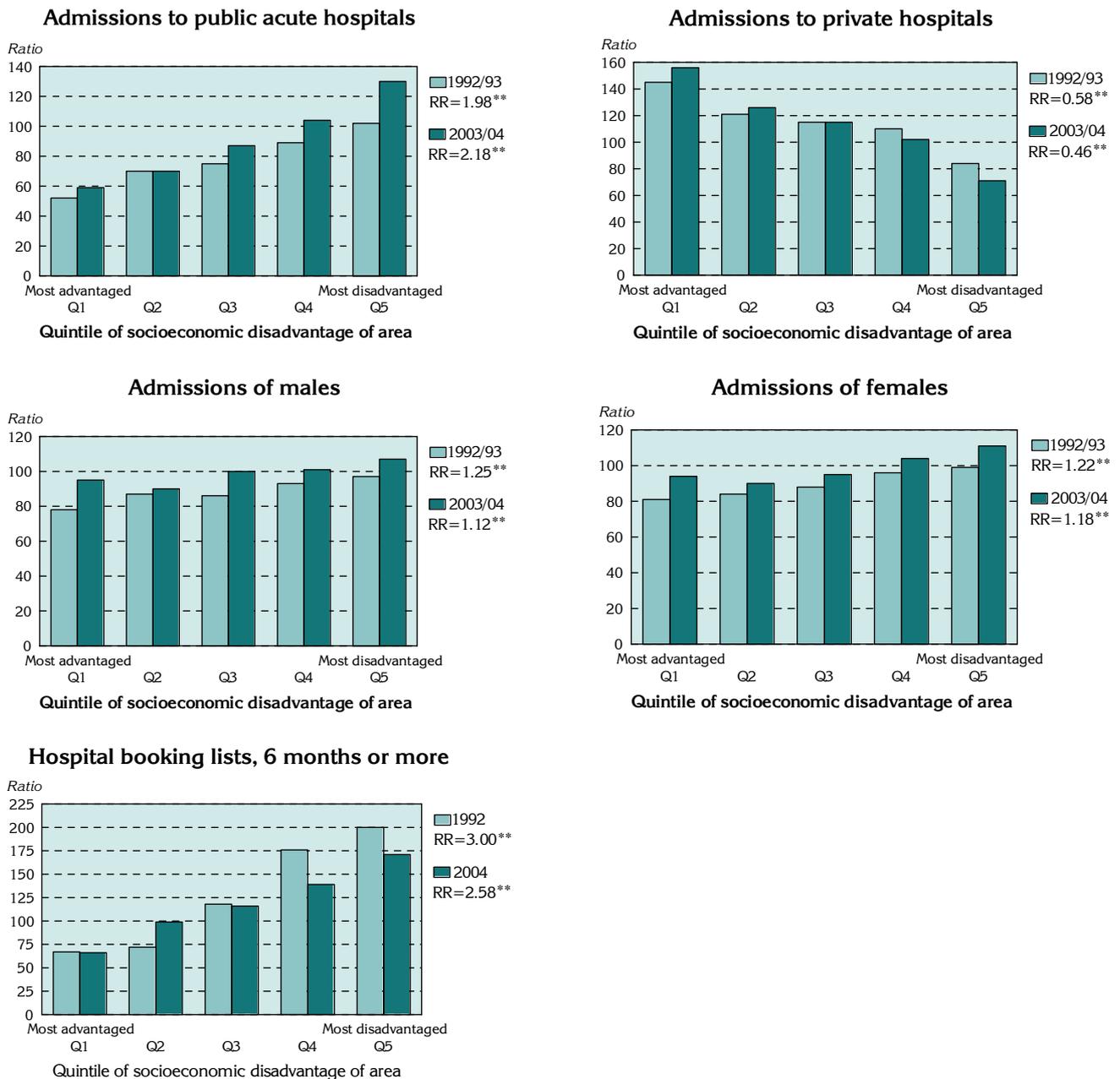


Figure 9.11: Indicators of service use (Chapter 7), change by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont



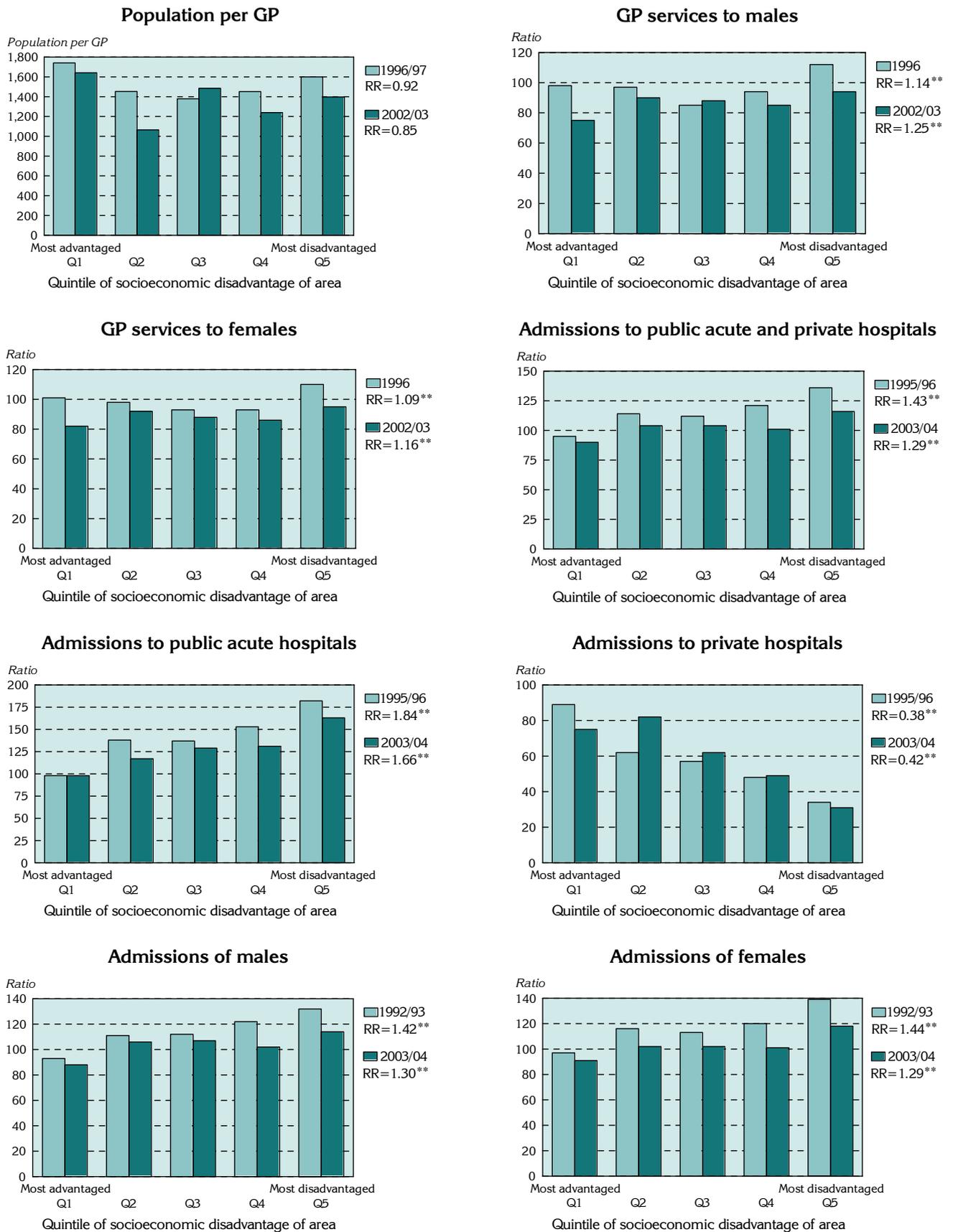
Note: See referenced chapter for data definitions

Country SA: Chapter 7 Indicators

The socioeconomic gradients in country South Australia, as for the earlier indicators, are generally less marked than those for Metropolitan Adelaide (Figure 9.12). Marked inequality was evident for each of the indicators presented here.

There were declines in the differences in the rate ratios for each of the hospital admission indicators; and increasing differences in the use of GP services and in population per GP.

Figure 9.12: Indicators of service use (Chapter 7), change by socioeconomic disadvantage of area, country South Australia



Note: See referenced chapter for data definitions

Use of services by area

Indicators for which data are only available for one period are shown below.

Metropolitan Adelaide: Chapter 7 Indicators

High levels of inequality in use, as well as distinct socioeconomic gradients, were evident for clients of community mental health services, Department for Families and Communities and Meals on Wheels (Figure 9.13). There was also marked inequality in use for clients of Royal District Nursing Service, although the most elevated ratios were calculated for areas in Quintile 2.

The charts for cervical screening outcomes (high grade abnormality), Accident and Emergency department attendances, specialist consultations in outpatient departments and admissions of females for a hysterectomy show socioeconomic gradients of varying strengths.

The reverse pattern, with higher rates in more advantaged quintiles, was evident for cervical screening participation, specialist consultations under Medicare, private health insurance, admissions for a myringotomy and admissions for a Caesarean section.

Figure 9.13: Indicators of service use (Chapter 7), by socioeconomic disadvantage of area, Metropolitan Adelaide

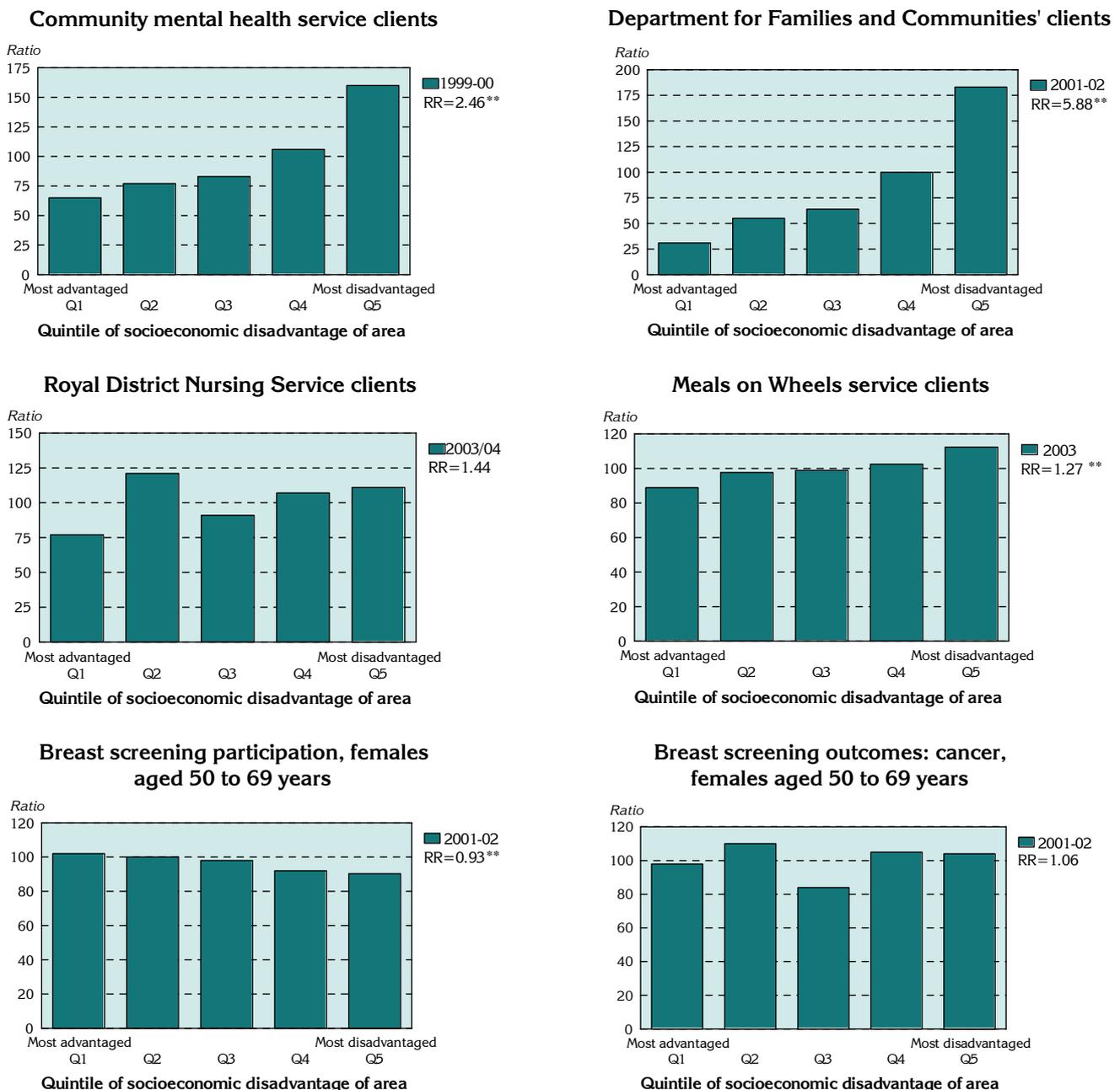


Figure 9.13: Indicators of service use (Chapter 7), by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont

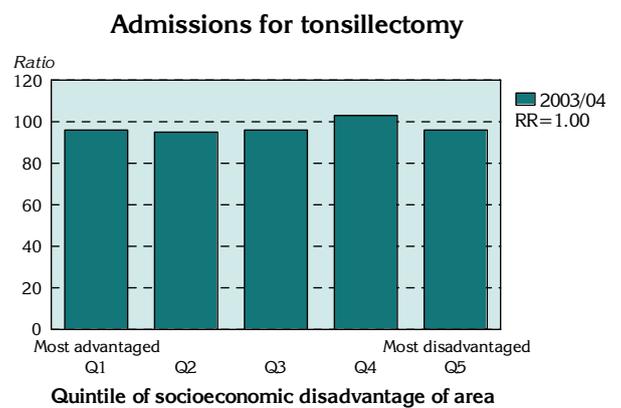
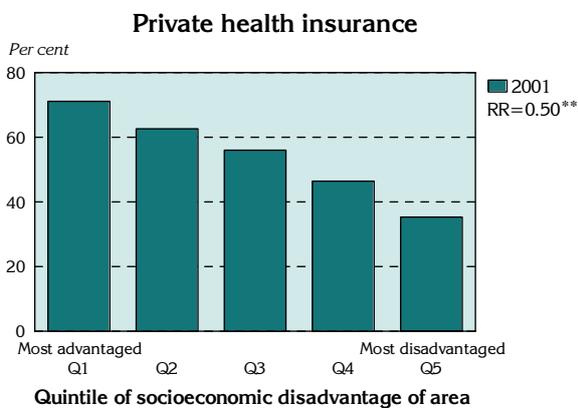
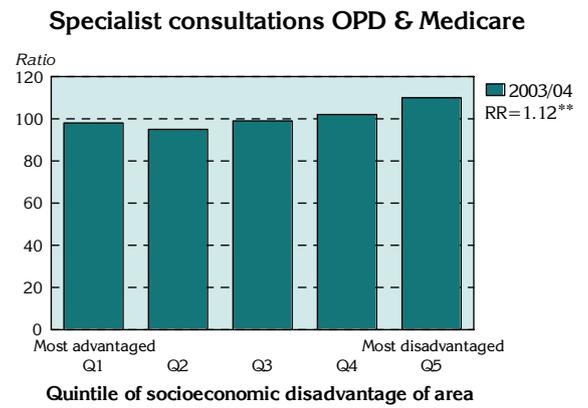
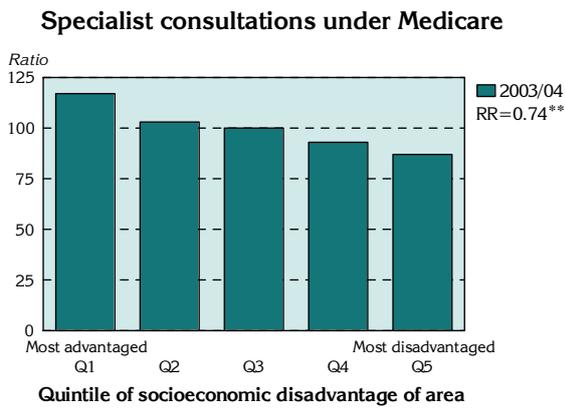
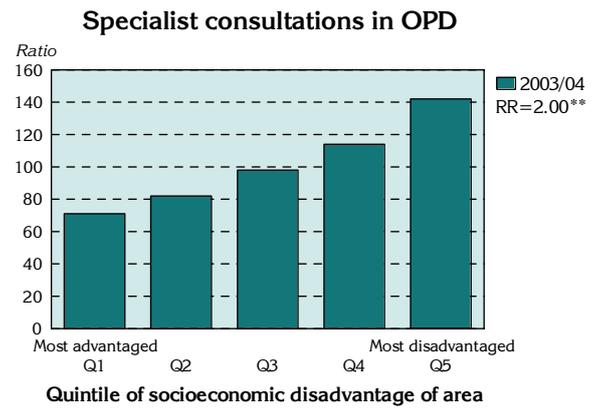
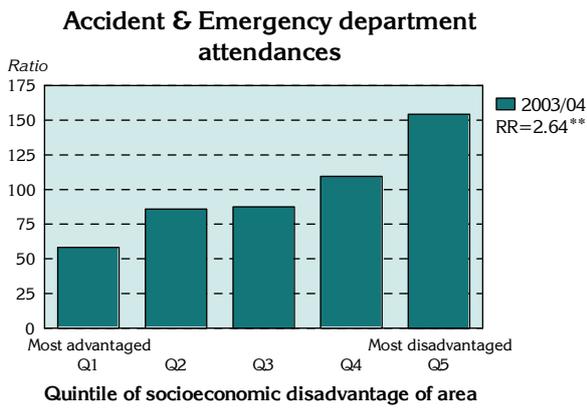
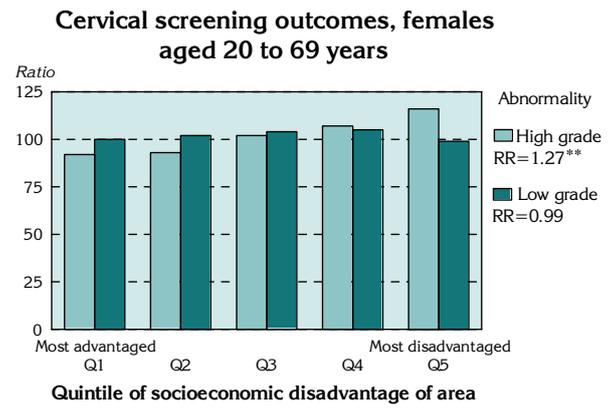
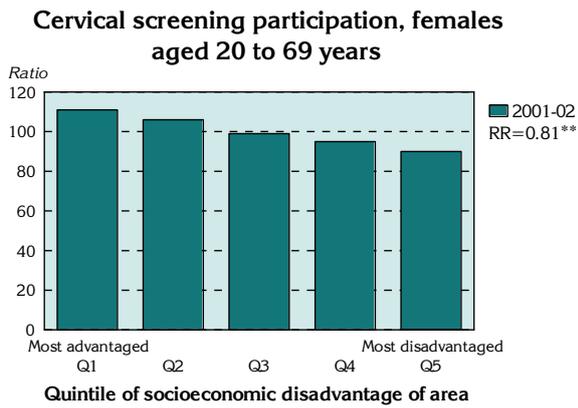
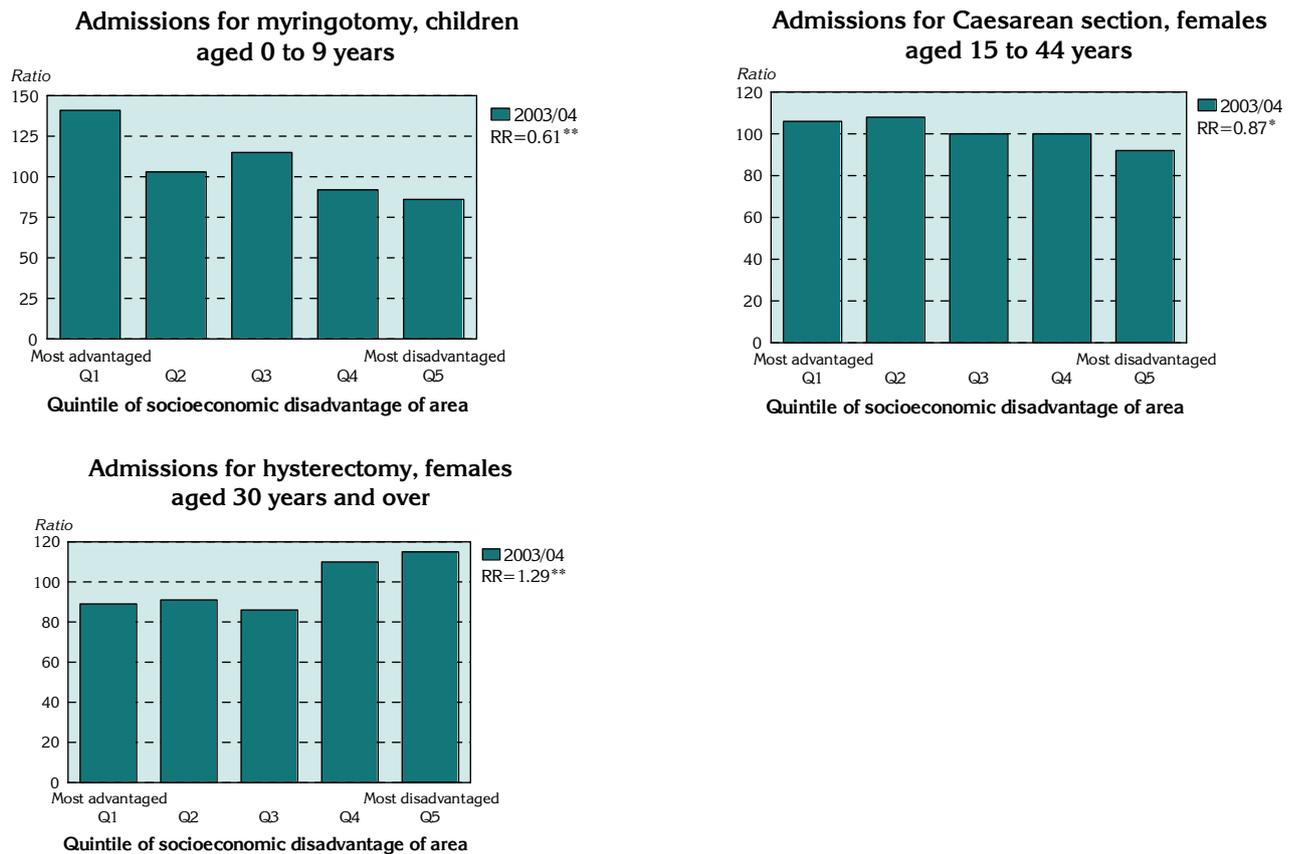


Figure 9.13: Indicators of service use (Chapter 7), by socioeconomic disadvantage of area, Metropolitan Adelaide ...cont



Note: See referenced chapter for data definitions

Country SA: Chapter 7 Indicators

The socioeconomic gradients in country South Australia, as for the earlier indicators, are generally less marked than those for Metropolitan Adelaide, except for admissions for a tonsillectomy where Quintile 5 was the only quintile with a ratio that varied notably from 1.00 (Figure 9.14).

In country South Australia, the opposite pattern to that of Metropolitan Adelaide is apparent for admissions for a myringotomy and a Caesarean section. For myringotomy, increasing rates of admission were associated with increasing

disadvantage between Quintiles 1 to 4. The gradient was not continuous, with Quintile 5 having the lowest ratio, which resulted in a rate ratio below 1.00. In contrast, the rate ratio between Quintile 4 and 1 was 1.40.

The rate ratio for hospital booking lists was 1.14; however, the most elevated ratios occurred in areas classified into Quintile 3. The rate ratio between Quintile 3 and 1 is notably higher at 1.73.

Figure 9.14: Indicators of service use (Chapter 7), by socioeconomic disadvantage of area, country South Australia

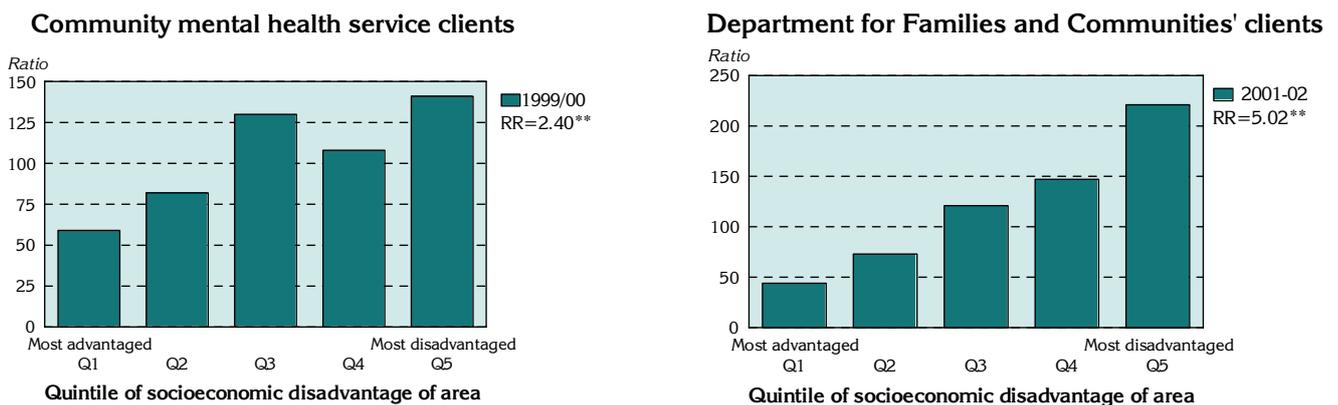
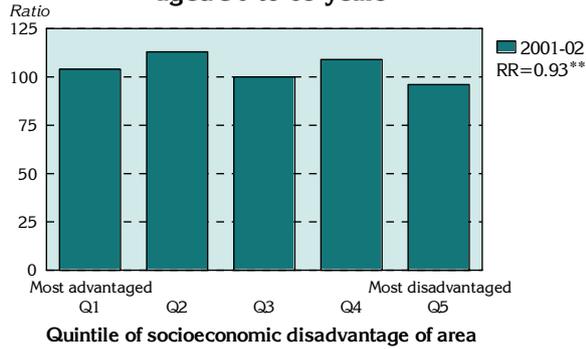
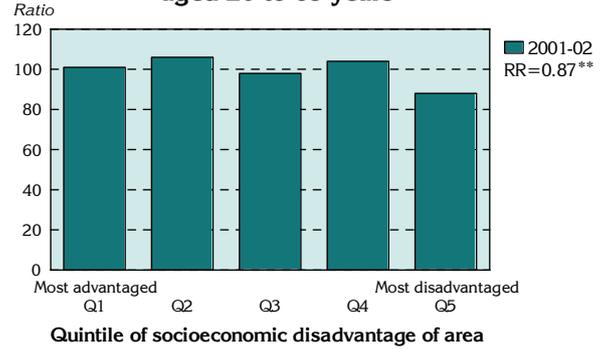


Figure 9.14: Indicators of service use (Chapter 7), by socioeconomic disadvantage of area, country South Australia ...cont

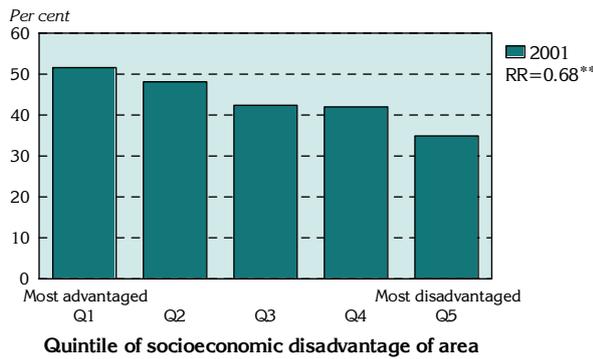
Breast screening participation, females aged 50 to 69 years



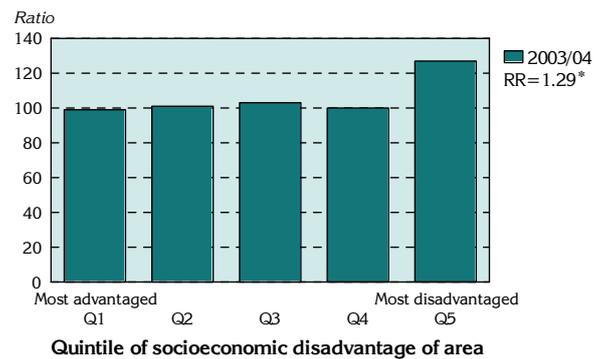
Cervical screening participation, females aged 20 to 69 years



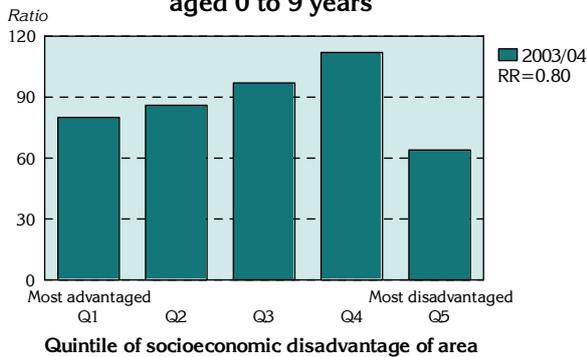
Private health insurance



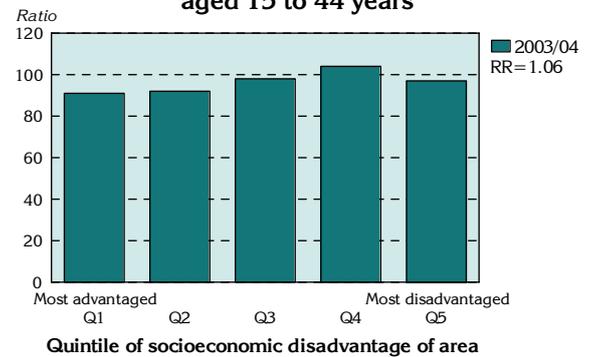
Admissions for tonsillectomy



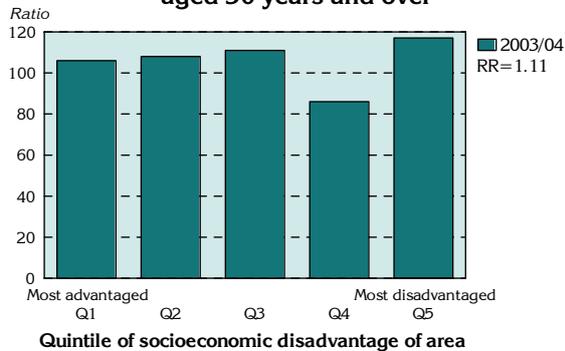
Admissions for myringotomy, children aged 0 to 9 years



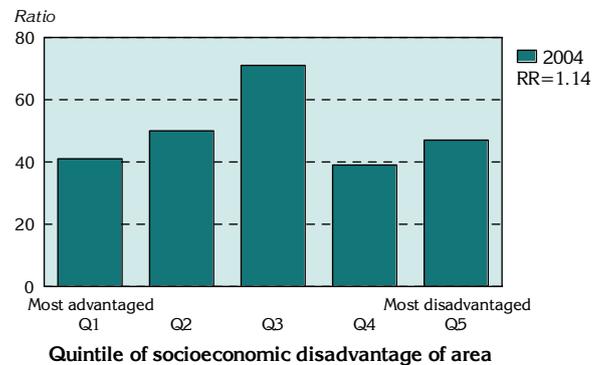
Admissions for Caesarean section, females aged 15 to 44 years



Admissions for hysterectomy, females aged 30 years and over



Hospital booking lists, 6 months or more



Note: See referenced chapter for data definitions

Summary

Trends in Metropolitan Adelaide

Of the 43 indicators for which time series data are available in Metropolitan Adelaide, six of the indicators showed both a decline in the rates or proportions for the total population, and declining differences in rates across the socioeconomic groupings of areas in Metropolitan Adelaide (Table 9.7). These indicators are: dwellings rented from the South Australian (SA) Housing Trust; poor proficiency in English; dwellings without a motor vehicle; lung cancer incidence; premature female deaths and infant deaths.

Premature death is a key indicator of inequality as it reflects, to an extent, the cumulative impact of determinants of health throughout people's lives. It is very encouraging that premature female deaths have declined, both overall and in terms of inequality. However, the level of inequality is still very high with women in the most disadvantaged quintile 51% more likely to die prematurely than those in the most advantaged quintile. The decline in infant death rates for the total population, and the level shown as the difference in rates should be viewed with caution: see comments on page 458.

Despite declines in the extent of inequality associated with these indicators, the current estimated level of inequality remains high in each case. Of particular concern are the extremely high levels of inequality associated with dwellings rented from the SA Housing Trust (a rate ratio of 10.99**) and people with poor proficiency in English (3.56**). The overall decline in dwellings rented from the SA Housing Trust is due to a reduction in the number of these dwellings following decreased funding under the Commonwealth State Housing Agreement. An increase in the numbers of Aboriginal Housing Association and Community Housing Association dwellings (Hetzel et al. 2004) has provided a small addition to the housing stock for eligible people previously dependent on SA Housing Trust properties. Rent assistance is also available to people renting privately. It is therefore difficult to assess how much of the decline in the estimated extent of inequality is associated with a real decline, and to what extent the decline reflects a necessity to seek alternative forms of accommodation.

The trend of declining inequality was also evident for a number of indicators for which the overall rate or proportion increased. Particularly large increases for the total population were observed for overweight four year old boys, disability support pensioners, prostate cancer incidence, admissions of males to hospital and low income families.

There was minimal change in the extent of inequality for more than half (58%) of the indicators in Table 9.7. Of these indicators (classified as 'stable'), nearly two thirds (61.1%) were associated with increasing rates or proportions for the total population. The increase reflects a positive outcome in the case of Aboriginal and Torres Strait Islander people (reflecting an increased preparedness to identify as such in the Census, rather than just an increase in population), educational participation at age 16 years and childhood immunisation. However, for the remaining indicators, an increased rate or proportion represents poorer social and health outcomes for the population, as well as increasing demand on services.

Some of the largest increases in the overall rate or proportion were recorded for the indicators of single parent families, total admissions, terminations of pregnancy, cancer incidence and breast cancer incidence.

Large declines were recorded in the overall rate or proportion for the indicators of unemployment, premature male deaths and GP services to both males and females, although there was little change in the estimated extent of inequality.

Increasing inequality was observed for more than one quarter of the indicators for Metropolitan Adelaide. The difference in the current rate ratio recorded for female sole parent pensioners is a very high 4.35**, with the overall rate increasing by one quarter (24.6%) over the 12-year period. There were also large increases in the overall rate or proportion for admissions to private hospitals, domiciliary care service clients, obese four year old boys and admissions to public acute hospitals.

Despite overall declines in the rates for community health service clients, unskilled and semi-skilled workers, people receiving unemployment benefits and age pensioners, increasing inequality was observed for each of these indicators. This trend can be attributed to greater declines in the rates for the most advantaged 20% of the population compared to the most disadvantaged 20% of the population. Such a trend suggests that policies impacting on these indicators have been less effective for the most disadvantaged population groups.

Table 9.7: Summary of trends by indicator: total population & extent of inequality, Metropolitan Adelaide

Indicator (see referenced chapter for data definitions)	Change in indicator for total population		Estimated extent of inequality ¹	
	Period (yrs)	%	Trend (% change)	Current
Demographic & socioeconomic status				
Total fertility rate	10	Decreased by 3.6	Stable (6.0)	1.23**
Single parent families	15	Increased by 43.3	Stable (-1.4)	2.11**
Low income families	15	Increased by 17.2	Decreasing (-19.5)	2.40**
Unemployed people	15	Decreased by 51.6	Stable (-7.3)	2.78**
Unskilled & semi-skilled workers	15	Decreased by 21.2	Increasing (61.8)	3.85**
Female labour force participation (20 to 54 years)	15	Increased by 10.0	Increasing (17.9)	0.69**
Educational participation at age 16 years	15	Increased by 5.3	Stable (-8.0)	0.81**
Aboriginal & Torres Strait Islander people	15	Increased by 72.9	Stable (-0.1)	8.24**
People born overseas ² :				
resident in Australia for five years or more	10	Increased by 1.8	Decreasing (-22.5)	1.55**
poor proficiency in English	10	Decreased by 13.7	Decreasing (-46.9)	3.56**
Dwellings rented from the SA Housing Trust	15	Decreased by 23.7	Decreasing (-59.5)	10.99**
Dwellings without a motor vehicle	15	Decreased by 17.2	Decreasing (-58.0)	1.74**
Index of Relative Socio-Economic Disadvantage	15	n.a.	Stable (2.5)	0.79
Income support				
Age pensioners	12	Decreased by 17.5	Increasing (14.1)	1.46**
Disability support pensioners	12	Increased by 39.6	Decreasing (-20.8)	3.59**
Female sole parent pensioners	12	Increased by 24.6	Increasing (16.9)	4.35**
People receiving an unemployment benefit ³	12	Decreased by 48.3	Increasing (15.9)	3.72**
Children in welfare-dependent & other low income families ⁴	12	Increased by 6.9	Stable (2.8)	2.96**
Health status				
Low birthweight babies	10	Increased by 2.6	Increasing (23.6)	1.57
Terminations of pregnancy	10	Increased by 22.9	Stable (-6.5)	1.58**
Immunisation status at one year of age	4	Increased by 12.1	Stable (2.1)	0.98
Overweight four year old boys	6	Increased by 45.5	Decreasing (-12.6)	1.11
Obese four year old boys	6	Increased by 27.1	Increasing (12.7)	1.69**
Cancer incidence: total	11	Increased by 22.5	Stable (-9.1)	1.00
Cancer incidence: lung	11	Decreased by 5.9	Decreasing (-23.4)	1.57**
Cancer incidence: female breast	11	Increased by 20.7	Stable (-2.4)	0.82**
Cancer incidence: prostate	11	Increased by 27.1	Increasing (-16.9) ⁵	0.83**
Infant deaths ⁶	10	Decreased by 44.6 ⁶	Decreasing (-32.1) ⁶	1.44 ⁶
Premature male deaths: ages 15-64 years	10	Decreased by 26.1	Stable (1.1)	1.90**
Premature female deaths: ages 15-64 years	10	Decreased by 16.5	Decreasing (-17.0)	1.51**
Service use				
Community health services	10	Decreased by 14.5	Increasing (81.4)	8.31**
Child and Adolescent Mental Health Services	4	Decreased by 1.5	Stable (-0.8)	2.34**
Domiciliary care service clients	4	Increased by 33.4	Increasing (33.5)	2.63**
Population per GP	6	Increased by 10.0	Stable (-1.7)	1.15
GP services to males	7	Decreased by 13.0	Stable (3.0)	1.38**
GP services to females	7	Decreased by 13.6	Stable (1.5)	1.35**
Outpatient department attendances	12	n.a.	Increasing (23.0)	1.98**
Admissions to public acute & private hospitals	11	Increased by 30.9	Stable (-6.5)	1.15**
Admissions to public acute hospitals	11	Increased by 23.0	Increasing (10.1)	2.18**
Admissions to private hospitals	11	Increased by 43.9	Increasing (20.7)	0.46**
Admissions of males	11	Increased by 26.7	Decreasing (-10.4)	1.12**
Admissions of females	11	Increased by 30.6	Stable (-3.3)	1.18**
Hospital booking lists	12	Increased by 6.3	Decreasing (-14.0)	2.58**

¹ Inequality as measured by the ratio between Quintile 5 and Quintile 1 (see page 450). Trend in inequality is classified as stable where the rate ratio differs by less than ten per cent between the two periods.

² Includes only people who were born in a predominantly non-English speaking country

³ Including Community Development Employment Project (CDEP)

⁴ Excludes children in families under CDEP

⁵ Percentage change is positive as decreasing inequality is associated with an increase in the rate ratio

⁶ See comments on page 460 regarding these data

Trends in country South Australia

Of the 38 indicators presented in Table 9.8 for country South Australia, infant deaths was the only variable to record both declining rates overall, and declining inequality. Infant death is a key indicator of inequality, reflecting access to health care and levels of disadvantage. The decrease in the rate of infant deaths in Quintiles 2 to 5 (Figure 9.8), as well as the overall declining rate, is encouraging.

The majority of indicators for hospital admissions (all except that for admissions of males) showed inequality declining. However, the current estimated extent of inequality for these indicators remains high, and overall rates of admissions increased strongly.

The estimated extent of inequality remained stable for half of the indicators in country South Australia. There was a small decline (8.6%) in the proportion of dwellings without a motor vehicle in country South Australia. However, the extent of inequality remained extreme, with those in the most disadvantaged quintile 3.61 times as likely to be without access to a motor vehicle.

Although the incidence of cancer increased markedly (for all but lung cancer, with only a small increase), the difference across the socioeconomic groupings of areas was stable over the eleven years of the data. The largest current differences in incidence rates were recorded for prostate cancer (with those in the most advantaged quintile 18% more likely to be diagnosed with prostate cancer than those in the most disadvantaged quintile) and for lung cancer (a rate ratio of 1.73**).

Large increases in the overall rate or proportion as well as persisting high levels of inequality were observed for Aboriginal and Torres Strait Islander people (reflecting an increased preparedness to identify as such in the Census, rather than just an increase in population); disability support pensioners; single parent families; and terminations of pregnancy. Smaller increases in the total rate or proportion were observed for admissions of males, unskilled and semi-skilled workers, and low birthweight babies, each of which had high but stable levels of inequality.

The proportion of children who were fully immunised at 12 months of age increased and was relatively equal across the quintiles of socioeconomic status. Female labour force participation also increased; however, women in the most disadvantaged quintile were 17% less likely to be participating in the labour force than those in the most advantaged quintile.

Inequality increased for nearly one third of the indicators (31.6%); however, the majority of these were associated with declining overall rates or proportions. The proportion of female sole parent pensioners increased by 21.0%, as did the proportion of these women experiencing disadvantage, being 2.54 times more likely to be in the most disadvantaged 20% of the population than the most advantaged. Increasing inequality was associated with marginal increases in the total proportions of low income families and educational participation at age 16 years.

Decreasing overall rates or proportions were associated with increasing inequality for nearly one quarter (23.7%) of indicators in country South Australia. The current estimated extent of inequality was most extreme for dwellings without a motor vehicle; poor proficiency in English; people receiving an unemployment benefit; and unemployed people.

Summary of current inequality (where trend data is unavailable)

Trend data on inequalities was unavailable for 48 indicators presented in this edition of the Social Health Atlas. Time series data are necessary to monitor the health and wellbeing of the population, as well as being of significant value in planning, and will be incorporated into future editions of the Social Health Atlas wherever possible.

In Metropolitan Adelaide, extremely high levels of inequality (with rate ratios 2.00 or above) were estimated for clients of the Department for Families and Communities; jobless families; attendance at Accident and Emergency departments; smoking during pregnancy; estimates of very high psychological distress levels (K-10); and specialist consultations in outpatient departments (Table 9.9).

In country South Australia, high levels of inequality were estimated for clients of the Department for Families and Communities; jobless families; community mental health service clients; admissions for a tonsillectomy; people who used the Internet at home; and private health insurance.

Table 9.8: Summary of trends by indicator: total population & extent of inequality, country South Australia

Indicator (see referenced chapter for data definitions)	Change in indicator for total population		Estimated extent of inequality ¹	
	Period (yrs)	%	Trend (% change)	Current
Demographic and socioeconomic status				
Total fertility rate	10	Decreased by 3.8	n.a.	1.09**
Single parent families	10	Increased by 48.5	Stable (3.1)	1.98**
Low income families	10	Increased by 5.3	Increasing (14.5)	1.50**
Unemployed people	10	Decreased by 58.3	Increasing (37.2)	2.58**
Unskilled & semi-skilled workers	10	Increased by 5.4	Stable (7.4)	1.30**
Female labour force participation (20 to 54 years)	10	Increased by 14.4	Stable (-3.5)	0.83**
Educational participation at age 16 years	10	Increased by 2.6	Decreasing (-12.8)	0.82**
Aboriginal & Torres Strait Islander people	10	Increased by 36.4	Stable (-1.5)	13.40**
People born overseas ² :				
resident in Australia for five years or more	10	Decreased by 14.3	Increasing (9.6)	1.71**
poor proficiency in English	10	Decreased by 36.2	Increasing (156.9)	8.53**
Dwellings rented from the SA Housing Trust	10	Decreased by 45.9	Increasing (72.2)	15.50**
Dwellings without a motor vehicle	10	Decreased by 8.6	Stable (7.8)	3.61**
Index of Relative Socio-Economic Disadvantage	10	n.a.	Stable (1.1)	0.88
Income support				
Age pensioners	10	Decreased by 16.4	Stable (0.9)	1.15**
Disability support pensioners	10	Increased by 48.9	Stable (6.0)	2.64**
Female sole parent pensioners	10	Increased by 21.0	Increasing (29.6)	2.54**
People receiving an unemployment benefit ³	10	Decreased by 41.3	Increasing (124.4)	5.79**
Children in welfare-dependent & other low income families ⁴	10	Decreased by 15.8	Increasing (31.1)	1.77**
Health status				
Low birthweight babies	10	Increased by 7.4	Stable (-4.2)	1.15
Terminations of pregnancy	10	Increased by 32.0	Stable (1.6)	1.25**
Immunisation status at one year of age	4	Increased by 12.9	Stable (1.0)	0.98
Overweight four year old boys	6	Increased by 74.8	Decreasing (-26.1)	0.99
Obese four year old boys	6	Increased by 30.5	Stable (-6.2)	1.06
Cancer incidence: total	11	Increased by 21.0	Stable (-3.6)	1.07*
Cancer incidence: lung	11	Increased by 1.6	Stable (3.0)	1.73**
Cancer incidence: female breast	11	Increased by 21.1	Stable (-6.1)	0.93
Cancer incidence: prostate	11	Increased by 25.9	Stable (-3.5)	0.82*
Infant deaths	10	Decreased by 66.2	Decreasing (-22.6)	1.44*
Premature male deaths: ages 15-64 years	10	Decreased by 28.0	Increasing (46.1)	1.87**
Premature female deaths: ages 15-64 years	10	Decreased by 10.2	Increasing (27.0)	1.55**
Service use				
Population per GP	6	Decreased by 11.7	Stable (-7.6)	0.85
GP services to males	6	Decreased by 6.7	Increasing (9.6)	1.25**
GP services to females	6	Decreased by 5.8	Stable (6.4)	1.16**
Admissions to public acute & private hospitals	8	Increased by 14.8	Decreasing (-9.8)	1.29**
Admissions to public acute hospitals	8	Increased by 5.3	Decreasing (-9.8)	1.66**
Admissions to private hospitals	8	Increased by 74.2	Increasing (10.5)	0.42**
Admissions of males	8	Increased by 10.4	Stable (-8.5)	1.30**
Admissions of females	8	Increased by 15.7	Decreasing (-10.4)	1.29**

¹ Inequality as measured by the ratio between Quintile 5 and Quintile 1 (see page 450). Trend in inequality is classified as stable where the rate ratio differs by less than ten per cent between the two periods.

² Includes only people who were born in a predominantly non-English speaking country

³ Including Community Development Employment Project (CDEP)

⁴ Excludes children in families under CDEP

Table 9.9: Summary of current inequality (trend data not available)

Indicator	Estimated extent of inequality ¹	
	Metropolitan Adelaide	Country SA
Demographic and socioeconomic status (Chapters 4 & 5)		
Jobless families	4.12**	2.66**
People who used the Internet at home	0.48**	0.69**
Publicly examined subject achievement scores	0.85**	0.90**
Publicly assessed subject achievement scores	0.83**	0.92
School assessed subject achievement scores	0.81**	0.87**
People born overseas ³ and resident for less than five years	1.11**	n.a.
Income support		
Rent assistance	1.41**	1.25**
Health status		
Smoking during pregnancy	2.32**	1.27**
No decayed, missing or filled teeth, for children aged 12 years	0.84**	0.98
Estimates of respiratory system diseases	1.01*	n.a.
Estimates of asthma	0.99	n.a.
Estimates of circulatory system diseases	1.08**	n.a.
Estimates of diabetes type 2	1.41**	n.a.
Estimates of mental and behavioural problems	1.32**	n.a.
Estimates of musculoskeletal system diseases	1.05**	n.a.
Estimates of arthritis	1.16**	n.a.
Estimates of osteoarthritis	1.10**	n.a.
Estimates of females with osteoporosis	1.11**	n.a.
Estimates of injury events	0.92**	n.a.
Estimates of very high psychological distress levels (K-10), aged 18 years and over	2.01**	n.a.
Estimates of fair or poor self-assessed health status, aged 15 years and over	1.41**	n.a.
Estimates of overweight (not obese) males aged 15 years and over	0.88**	n.a.
Estimates of obese males aged 15 years and over	1.55**	n.a.
Estimates of overweight (not obese) females aged 15 years and over	0.92**	n.a.
Estimates of obese females aged 15 years and over	1.35**	n.a.
Estimates of current smokers aged 18 years and over	1.27**	n.a.
Estimates of physical inactivity, people aged 15 years and over	1.33**	n.a.
Estimates of high health risk due to alcohol consumed, aged 18 years and over	0.93**	n.a.
Avoidable mortality	1.72**	1.79**
Service use		
Community mental health service clients	2.46**	2.40**
Department for Families and Communities' clients	5.88**	5.02**
Royal District Nursing Service clients	1.44	n.a.
Meals on Wheels' clients	1.27**	n.a.
Breast screening participation, females aged 50 to 69 years	0.93**	0.93**
Breast screening outcomes: cancer, females aged 50 to 69 years	1.06	n.a.
Cervical screening participation, females aged 20 to 69 years	0.81**	0.87**
Cervical screening outcomes: high grade abnormality	1.27**	n.a.
Cervical screening outcomes: low grade abnormality	0.99	n.a.
Accident & Emergency department attendances	2.64**	n.a.
Specialist consultations in outpatient departments	2.00**	n.a.
Specialist consultations under Medicare	0.74**	n.a.
Specialist consultations in outpatient departments & under Medicare	1.12**	n.a.
Private health insurance	0.50**	0.68**
Admissions for a tonsillectomy	1.00	1.29*
Admissions for a myringotomy	0.61**	0.80
Admissions for a Caesarean section, females aged 15 to 44 years	0.87*	1.06
Admissions for a hysterectomy, females aged 30 years and over	1.29**	1.11
Hospital booking lists	n.a.	1.14

¹ Inequality as measured by the ratio between Quintile 5 and Quintile 1 (see page 450)