

NATSEM MODELLING SHOWS ELECTORATES WITH THE HIGHEST RATES OF HOUSING STRESS, POVERTY AND INEQUALITY

For the first time levels of housing stress, poverty and income inequality have been modelled on the new Federal Electorate boundaries.

The National Centre for Social and Economic Modelling (NATSEM) at the University of Canberra is one of Australia's most respected independent centres for modelling the impact of economic policies on households and families.

Using its spatial microsimulation model, they have been able to model poverty rates, inequality and housing stress for the new Commonwealth Electoral Divisions in Australia.

NATSEM's Spatial Microsimulation Model

NATSEM's model brings together an ABS Survey (the Survey of Income and Housing Costs 2015/16) and data from the 2016 Census by the latest Commonwealth Electoral Division to derive estimates for every 2019 CED in Australia. The 2019 CED mapping used aggregations of ABS SA1 geographies built as a custom geography in ABS Tablebuilder, to reduce randomisation as a result of extracting SA2 level data from Tablebuilder.

The spatial microsimulation model uses a number of benchmarks, as shown in Table 1; and is validated using low income rates from the Census (household equivalized income is under \$300 per week excluding nil and negative incomes), as shown in Figure 1. The method is peer reviewed and published by the Journal of the Royal Statistics Society (Tanton et al. 2011).

The benchmarks are important as the final estimates (poverty, housing stress and inequality) need to be correlated with these benchmarks. The benchmarks are therefore chosen with the final estimates in mind.

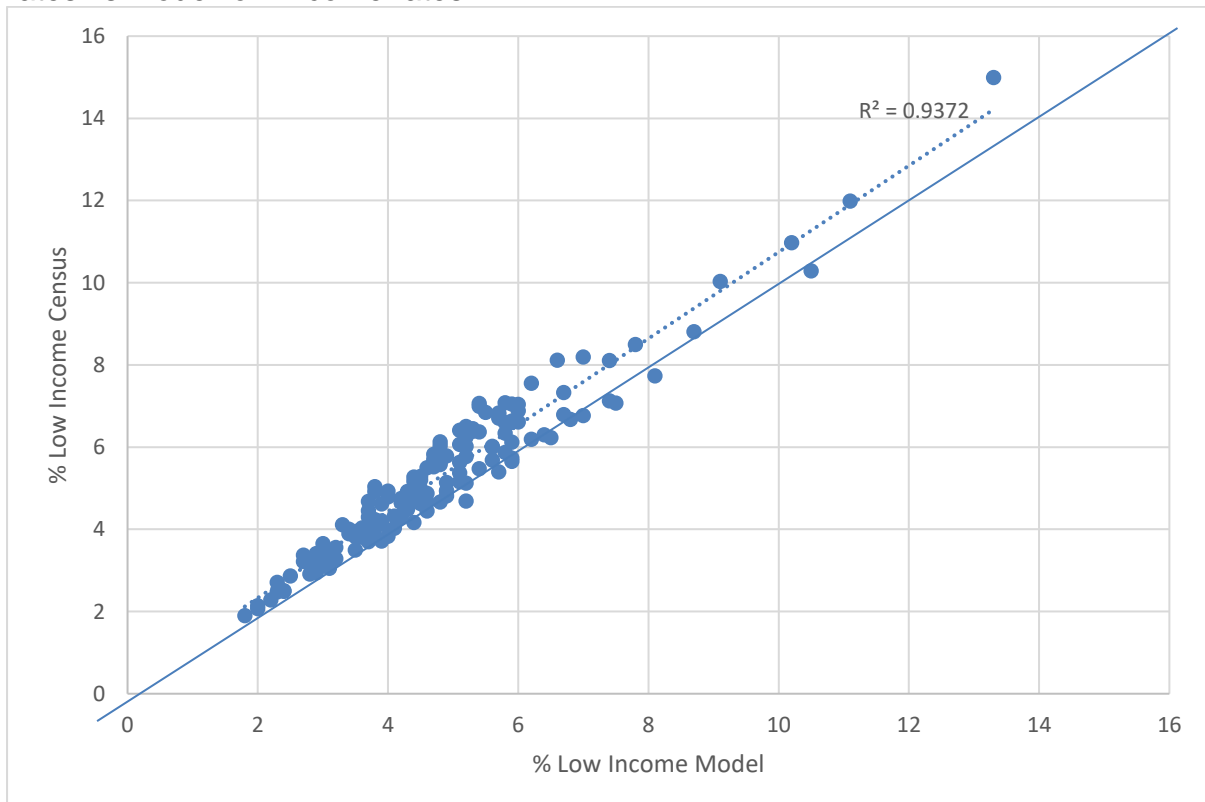
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Table 1: Benchmarks used in the spatial microsimulation process

No	Benchmark tables	Level
1	Number of persons usually resident in household	Household
2	Tenure type by weekly household income	Household
3	Household composition by weekly household income	Household
4	Rent by weekly household income	Household
5	Mortgage payment by weekly household income	Household
6	Age by weekly household income	Person
7	equivalised household income by weekly household income	Person
8	Age by sex by labour force status	Person
9	Non school qualification	Person

Figure 1 shows that the estimates of the proportion of low income families (which can be derived directly from the Census) is very similar to the proportion of low income families from our model. The R2 is 0.9372, while the Standard Error around Identity (SEI – the spread of points around the 45 degree line – see Edwards and Tanton 2013) is 0.87. The benchmarks from Table 1 also suggest that we should get excellent estimates of poverty, housing stress and inequality from our model.

Figure 1: Validation of 2019 CED Spatial Microsimulation model, Census low income rates vs model low income rates



Poverty Rates

Poverty rates were calculated in the same way that the ACOSS poverty rates are calculated, so a poverty line of half median equivalised disposable household income after housing costs; excluding 0 and negative income households and self employed households.

The aggregate estimates of poverty will not exactly match the ACOSS estimates due to different data sources used (the NATSEM spatial microsimulation model uses both Census and Survey data to derive the small area estimates, while the ACOSS estimates are at the State and National level so only require the Survey data).

Housing Stress

Housing stress was calculated using the 30/40 definition (Nepal et al. 2010). This means that 30% of a households gross income is being spent on housing and they are in the bottom 2 quintiles (40%) of the equivalised disposable household income distribution. The equivalising factor used was the modified OECD factor².

The proportion of households in housing stress is provided (the standard measure), but also the proportion of people living in households in housing stress; and the proportion of people living in households in housing stress by age group, to provide a more detailed account of exactly who is living in housing stress.

Estimates of rental stress (so the proportion of renting households paying more than 30% of their income on rent and in the bottom 40% of the equivalized disposable household income) and mortgage stress (the proportion of mortgagee households paying more than 30% of their income on a mortgage and in the bottom 40% of the equivalized disposable household income) are also provided.

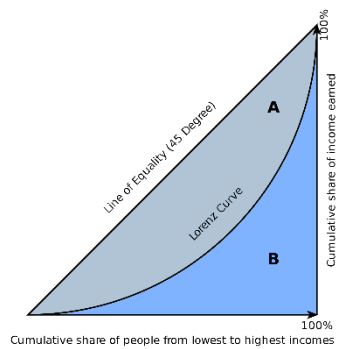
Inequality

Estimates of inequality used the gini coefficient, which uses the Lorenz curve. The Lorenz curve plots the proportion of the total income of the population (y axis) that is cumulatively earned by the bottom x of the population (see Figure 2). The line at 45 degrees represents perfect equality of incomes. The Gini coefficient is the ratio of the area that lies between the line of equality and the Lorenz curve (marked A in Figure 2) over the total area under the line of equality (marked A and B in the diagram); i.e., $G = A/(A + B)$.

A Gini coefficient of zero expresses perfect equality, where everyone has the same income. A Gini coefficient of 1 shows maximum inequality (one person has all the income, and all others have none). A higher gini coefficient signifies greater inequality.

² The median equivalised disposable household income is the middle value for that quintile of household income after tax and equivalised using the modified OECD scale, with one point to the first adult, 0.5 points to each additional person who is 15 years and over, and 0.3 to each child under the age of 15.

Figure 2: Lorenz curve and the Gini coefficient



References

- Edwards, K., & Tanton, R. (2013). Validation of spatial microsimulation models. In R. Tanton & K. Edwards (Eds.), *Spatial Microsimulation: A Reference Guide for Users* (pp. 249–258). Springer.
- Nepal, B., Tanton, R., & Harding, A. (2010). Measuring Housing Stress: How Much do Definitions Matter? *Urban Policy and Research*, 28(2), 211–224. doi:10.1080/08111141003797454
- Tanton, R., Vidyattama, Y., Nepal, B., & McNamara, J. (2011). Small area estimation using a reweighting algorithm. *Journal of the Royal Statistical Society: Series A (Statistics in Society)*, 174(4), 931–951. doi:10.1111/j.1467-985X.2011.00690.x

Metadata

pc_Totalpoverty_O15	Poverty rate for those aged 15 and over
pc_povertyAGE15-24	Poverty rate for those aged 15 to 24
pc_povertyAGE25-34	Poverty rate for those aged 25 to 34
pc_povertyAGE35-64	Poverty rate for those aged 35 to 64
pc_povertyAGE65+	Poverty rate for those aged 65 and over
pc_Totalpoverty_kids	Poverty rate for those aged 0 to 14
pc_Totalpoverty_pers	Poverty Rate - Everyone
CED_gini	Gini Coefficient
eqDISPSCHpers_med	Median equivalised household disposable income
pc_Totalhousestress_O15	Housing stress - Adults - Proportion of people aged over 15 living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_housestressAGE15-24	Housing stress - Age 15 - 24 - Proportion of people aged 15 - 24 living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_housestressAGE25-34	Housing stress - Age 25 - 34 - Proportion of people aged 25 - 34 living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_housestressAGE35-64	Housing stress - Age 35 - 64 - Proportion of people aged 35 - 64 living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_housestressAGE65+	Housing stress - Age 65+ - Proportion of people aged 65 and over living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_Totalhousestress_kids	Housing stress - Children - Proportion of people aged 0 - 14 living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_Totalhousestress_pers	Housing stress - Proportion of people living in households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
pc_Totalhousestress_HH	Housing stress - Proportion of households where housing costs are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
Pc_Mortstress_MortHH	Mortgage stress - Proportion of households with a mortgage where mortgage payment are more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
Pc_Mortstress_AllHH	Mortgage stress - Proportion of households where mortgage payment is more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
Pc_Rentstress_RentHH	Rental stress - Proportion of households which are renting where the rent payment is more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution

Pc_Rentstress_AllHH	Rental stress - Proportion of households where the rent payment is more than 30% of gross income and in the bottom 40% of the equivalised disposable household income distribution
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209	Corangamite	2RVC	2	11.1	14.4	11.5	11.1	9.1	16.4	12.2	0.282	8319467	10.7	14.9	11.2	10	9.2	16.3	11.8	12.5	9.4	3.53	35.4	7.5	
210	Coro	2RVC	2	13.4	18.9	13.4	12.9	10.7	18.9	14.4	0.295	764	12.5	16.7	13.3	11.6	10.9	18.3	13.5	15.5	8.1	2.54	34.1	11.48	
211	Dean	2GMEL	2	11.1	15.6	9	10.5	11.1	16.7	12.2	0.306	862	10.4	15.7	9.9	10.6	6.8	18.3	12	12.2	11.6	4.28	28.9	7.02	
212	Dunkley	2GMEL	2	12.4	16.8	9.4	12.2	11.8	19.9	14	0.303	814.7389	12.4	15.9	11.6	13.2	8.6	22.3	14.4	15.2	12.1	4.69	15.2	9.82	
213	Flinders	2GMEL	2	11.8	15.7	11.1	12	10.4	13.6	12.6	0.312	778.62	11.7	16.5	12.6	12.7	6.9	23.8	13.7	13.7	13.4	4.26	37.6	8.49	
214	Fraser	2GMEL	2	17.2	20.2	15.2	16.8	17.3	33.2	20.1	0.309	494	13.9	15.9	16	13.9	9.3	30.5	16.8	17.4	20.5	6.18	35	9.94	
215	Gellibrand	2GMEL	2	12.1	17.6	9.4	10.9	15.3	16.8	13.2	0.331	921.0667	11.2	17.7	10.3	10.3	9.8	17.1	12.5	15.1	11.1	3.97	24.7	8.32	
216	Gippsland	2RVC	2	13.2	20.3	16.3	13.2	20.2	14.4	14.4	0.297	678.324	11.7	18.8	18.3	11	8.1	17.1	12.7	14.3	10.7	3.32	34.6	9.27	
217	Goldstein	2GMEL	2	9.2	12.6	9.1	7.4	11.2	10	9.3	0.369	1127.333	8.3	15	8.6	6.6	7.5	9.4	8.5	9.6	7	2.16	25	6.62	
218	Gorton	2GMEL	2	14.5	17.5	12.2	14.8	13	25.4	17.2	0.294	773.043	13.9	16.1	13.6	14.7	8.3	27	17.1	17.1	16.7	8.13	35	8.26	
219	Higgins	2GMEL	2	11.5	21.6	8	8.8	14.4	11.1	11.7	0.368	193	11.4	25.2	8.3	8.3	11	10.5	11.2	12.4	8.2	2.04	23.1	9.75	
220	Holt	2GMEL	2	14	16.4	11.6	14.5	12.6	24.2	16.5	0.281	781.7258	13.7	14.7	13	14.9	9.3	27.1	17	16.5	17	9.37	30.7	6.55	
221	Hotham	2GMEL	2	15.7	24.1	13.1	13.9	16.8	20.5	13.9	0.333	801.6962	13.5	24.3	12.6	11.8	8.4	14.6	14.9	17.3	14.6	4.95	30.3	8.85	
222	Indi	2RVC	2	12.5	17.8	17	12.3	8.7	17.8	13.5	0.276	727.1733	11.7	16.3	15.7	11.1	9	16.1	12.5	14.2	11	3.45	32.6	9.16	
223	Isacs	2GMEL	2	11.4	15.1	8.5	10.8	12.5	15.7	12.2	0.316	900.8	10.7	16.1	9.3	10.7	8.1	17.3	12	12.5	11.6	4.29	29.1	7.38	
224	Jaggaga	2GMEL	2	9.8	14.3	8.1	8.7	10.6	13.9	10.7	0.326	942.74	9	14.9	8.4	8.4	6.6	14.7	10.1	10.6	9.9	3.5	27.6	6.36	
225	Koooyong	2GMEL	2	11.3	18.2	9.9	8.6	11.7	12.3	11.5	0.385	1165.613	10.3	20.5	9.2	7.6	8.2	11	10.4	11.5	9.7	2.63	25.4	7.95	
226	La Trobe	2GMEL	2	11.6	14.1	10.2	11.4	10.9	19.6	13.5	0.293	831.325	11.7	13.8	11.6	12.3	7.3	11.6	14.3	14.2	13.2	6.37	31.2	7.22	
227	Labor	2GMEL	2	14.3	17.5	12.1	14.7	13.1	24.8	17	0.294	781.24	13.5	15.4	13.2	14.2	8.6	25.6	16.5	16.6	15.7	7.15	29.8	8.88	
228	Macnamara	2GMEL	2	12.4	20.1	7.5	9.9	19.3	13.1	12.6	0.354	1228.867	12.9	31.6	8	9.7	16.7	12.6	12.8	13.6	7.5	1.73	21.6	11.38	
229	Malke	2RVC	2	13.3	20.9	20.9	12.5	8	19.9	14.5	0.275	653.41	10.8	15	17.5	10	7.4	15.7	11.7	13.3	10.2	2.84	30.3	8.67	
230	Maribyrnong	2GMEL	2	12.6	18.2	9.4	10.8	16.6	15.7	13.2	0.342	925.7577	11.2	18.5	9.8	9.8	10.5	14.5	11.8	13.1	9.9	2.78	25.5	9.25	
231	McEwan	2GMEL	2	10.7	13.6	10	10.5	9.4	18.4	12.6	0.295	871.0889	10.7	13.2	11.2	11.2	6.6	21	13.2	13	12.3	6.45	13.7	6.45	
232	McEwan	2GMEL	2	21.2	26	12.9	17.9	39.5	23.2	21.7	0.324	985.4133	20.3	45.7	11.8	14.7	28.6	14.8	19.6	22.5	7.8	1.47	31.9	20.18	
233	Menzies	2GMEL	2	11.2	14.3	12.4	9.9	11.3	15.6	12	0.348	951.0267	9.3	15.3	10.7	8.4	6.5	15.5	10.5	10.4	13	4.36	29.3	4.99	
234	Monash	2RVC	2	13.6	19.4	17.2	13.9	9	20.7	14.9	0.292	678.324	12.2	16.8	15.3	11.9	9.2	18.6	13.3	14.9	12.2	3.92	36.4	9.14	
235	Nicolson	2RVC	2	12.6	18.3	17.3	11.9	8.6	17.8	13.6	0.277	697.5333	10.6	13.5	14.4	9.9	8.4	14.3	11.3	13.2	10.1	3.1	29.4	8.7	
236	Scullin	2GMEL	2	15.5	19.3	13.7	15.5	14	27.1	19.9	0.369	726.2667	13.5	16.7	14.9	13.9	7.8	26.1	16.5	16.3	18.5	34.1	34.1	8.48	
237	Wannon	2RVC	2	12.4	18.7	17.6	11.8	8	19.3	13.3	0.279	707.7333	10.7	15.5	15.2	9.8	7.6	18.3	11.5	12.9	10.5	3.2	30.2	8.05	
238	Wills	2GMEL	2	13.6	20.2	9.5	12.3	17.7	20.6	14.9	0.328	866.85	12.8	22.8	10.4	11.3	11.4	19.7	14	14.3	11.7	3.17	25.8	10.08	
301	Blair	3GBRI	3	13.5	13.7	13.5	13.8	10.7	27.2	17	0.271	710.1	13.6	13.3	20	13.3	10	24.7	18	18	14.1	4.86	32.6	12.84	
302	Bonnet	3GBRI	3	9.4	11.6	8.5	8.6	7.6	18.3	14.5	0.295	136	8.6	10.2	10.7	8.6	5.4	18.1	10.7	11.2	8.9	3.73	24.1	7.39	
303	Bowman	3GBRI	3	10.4	9.7	10.5	11.1	9	20.8	12.8	0.288	845.82	9.8	10	12.9	10.6	6.4	20.7	12.2	13.1	11.7	4.64	31.2	8.18	
304	Brisbane	3GBRI	3	10.8	19.3	10.2	7.7	12.3	11.5	9.2	0.323	1111.075	11.5	21.5	12.2	7.8	9.2	14.5	12	13.3	8.8	2.37	20.5	10.57	
305	Capricornia	3RQLD	3	12.7	14.2	9.1	13.8	11.8	18.2	14	0.316	834.9875	10.5	10.1	12.6	11.7	6.3	14.6	11.5	13.3	12.7	4.21	23.6	8.33	
306	Dawson	3RQLD	3	13.7	13.9	9.8	14.6	14.3	21.3	13.4	0.315	802.88	11.7	10.9	12.6	12.9	8.5	17.8	13.1	14.8	13.7	4.47	27.3	9.78	
307	Dickson	3GBRI	3	9	8.5	10.2	9	8.5	18.7	11.5	0.279	869.1733	9.2	8.5	6.2	18.8	11.6	12.4	10.5	11.6	12.4	10.5	4.87	29.9	7.28
308	Fadden	3RQLD	3	14	20.2	9.1	13.9	13.4	20.3	15.3	0.304	822.9333	12.9	16.3	12.3	13.6	9.4	19.2	14.3	15.4	15.3	5.01	26.1	9.88	
309	Furfax	3RQLD	3	13.9	18.9	8.9	14.3	19.4	15	7.9	0.300	791.7593	12.7	16.4	14	7.9	20	14.2	14.2	15.1	16.7	5.5	29.8	8.94	
310	Fisher	3RQLD	3	13.8	19	9.3	14.4	12	21.1	13.2	0.301	779.86	12.3	16.5	13.4	13.9	7.1	20.5	13.9	14.3	16.7	5.06	28.9	8.54	
311	Flynn	3RQLD	3	14.8	15.2	9.9	17	12.6	21.9	16.5	0.324	791.7593	10.9	9.9	11.5	12.7	5.4	15.7	12.1	13.3	15.4	4.89	20.5	7.61	
312	Forde	3GBRI	3	12.7	13.2	13.9	12.9	10.5	26.5	16.2	0.263	761.0167	13.1	11.8	17.9	12.6	10.7	16.1	17.6	13.8	13.8	5.37	32.1	11.99	
313	Griffith	3GBRI	3	10.2	16.6	8.4	8.7	10.7	14.5	11.2	0.311	1032.2	10.3	16.8	10.6	8.5	8.3	15.9	11.4	12.3	8.8	2.67	19.6	9.32	
314	Groom	3RQLD	3	13.3	14.1	9.2	14.4	13.6	21.2	15.1	0.286	783.1722	11.1	10.8	12.3	12.3	8.2	15	12	13.6	12.4	3.84	26.6	9.15	
315	Herbert	3RQLD	3	15.7	19.5	9.2	16.4	17.4	22.9	17.4	0.299	790.0619	13	14.7	11.6	13.5	11.4	16.7	13.9	15.9	12.7	4.08	26.1	11.4	
316	Hindler	3RQLD	3	19	23.1	14.3	22.1	14.8	32.3	21.6	0.300	624.0783	15	17.3	16.7	17.8	9.7	21.9	19.6	17.9	19.6	4.86	37.7	12.17	
317	Kennedy	3RQLD	3	16.2	17.7	10.6	18.8	13.3	27.2	18.7	0.311	727.124	11	11	10.8	13.4	6.2	16.2	13.6	15.9	16	4.3	23.6	8.55	
318	Leckhoad	3RQLD	3	17.1	20.5	10.8	17.8	18.7	26.9	19.4	0.314	791.7593	12.5	13.7	11.8	13.1	10.4	16.9	13.5	15.9	13.7	3.85	25.2	11.7	
319	Lilley	3GBRI	3	10.1	12.5	8.6	9.9	10.4	17.7	11.8	0.290	892.615	10	11.6	11.6	9.5	8.3	18	11.7	12.7	14.7	3.16	24.1	9.24	
320	Longman	3GBRI	3	14.2	13.7	17.1	15	12	28.5	17.6	0.270	702.8	14.7	12.8	21.8	15.1	10.6	16.7	19.3	13.6	14.6	5.08	39.1	13.88	
321	Mariano	3RQLD	3	16	16	11.4	19.8	11.6	27.9	18.7	0.307	700.21	10.9	9.4	10.8	14.5	5.2	16.6	12.2	13.3	18.6	4.58	22.4	7.96	
322	McPherson	3RQLD	3	14.2	21.9	8.3	13.8	14	18.7	15.1	0.298	853.1	13.2	17.3	13.5	13.5	10.5	18.9	14.4	15.8	14.4	5.38	28.1	9.16	
323	Moncrieff	3RQLD	3	15.5	23.3	8.8	15.7	15.4	20.7	16.4	0.316	853.1	14.2	17.6	12.7	15.3	11.2	20.5	15.3	16.9	16.6	4.6	26.1	11.84	
324	Monson	3GBRI	3	12.8	19.2	12.3	11.6	9.4	20.9	14.6	0.310	831.7619	11.8	16.2	16.2	9.5	6.5	19.9	13.4	14.2	11.8	3.78	27.2	10.40	
325	Oxley	3GBRI	3	12.5	14.2	12.9	12.7	16.1	26.6	16.1	0.284	779.9286	11.7	10.5	16.2	11	9	23.9	14.7	15.6	12.4	4.79	27.4	10.44	
326	Perse	3GBRI	3	12.4	12.4	12.6	12.8	11.3	23.9	15.1	0.274	784.1733	12.8	11											

402	Barker	4RSAU	4	10.8	15.1	9.8	11.9	6.7	13.1	11.6	0.047	680.819	9.6	14.6	10	9.9	5.9	9.5	9.6	12.4	12.4	4.02	26.1	7.8
403	Boothby	4GADE	4	14.4	24.9	17.8	12.7	9	19.6	13.2	0.299	863.1714	12	25.7	15.2	9.3	6.7	14.6	12.5	13.8	8	2.53	15.1	10.66
404	Geys	4RSAU	4	12.5	17	12.3	14.1	7	16.1	13.6	0.303	656.1346	10.4	16	10.9	11.2	5.6	10.3	10.4	13	13.6	3.98	25.6	8.35
405	Hindmarsh	4GADE	4	15.2	24.2	17.4	14.4	10	23.1	16.4	0.294	778.6158	12.3	22.8	14.7	10.8	7.4	18.5	13.3	14.2	9.7	3.95	32.7	10.75
406	Kingston	4GADE	4	15.2	23	18.2	14.3	9.6	24.3	17	0.256	744.08	13.2	22.3	17.1	11.8	6.6	22	14.9	15.4	11.7	4.88	39.5	10.11
407	Makin	4GADE	4	14.8	23.4	16.8	14	8.9	22.5	16.2	0.269	754.5467	12.4	16.2	15.1	11.1	6.4	20.2	13.9	13.9	11.4	4.61	36.3	8.85
408	Mayo	4GADE	4	13.3	20.9	18.8	12.7	8.2	20.5	14.7	0.281	789.9095	11.5	20	18.2	10.8	5.7	17.4	12.7	13.5	10.4	3.97	43.8	9.02
409	Spence	4GADE	4	23.9	30.7	28.3	23.2	14	35.1	25.9	0.273	644.2862	19	27.2	24	17.3	9.8	31.8	21.7	22.5	17.3	6.38	41	15.7
410	Sturt	4GADE	4	14.6	26.2	17.8	13.4	8	20.6	15.5	0.264	862.448	11.7	25.3	15.1	9.4	5.8	15.1	12.3	12.9	8.6	2.6	33.8	9.83
501	Brand	SGPER	5	16	19.1	16.4	15.8	12.9	22.5	17.6	0.291	776.71	17.3	15.9	28.2	15.7	10.3	29.8	20.5	20.4	18.6	8.84	36.9	10.36
502	Burt	SGPER	5	16.2	23.2	14.9	15.5	12.2	21.8	17.4	0.287	792	15.9	16.3	22.9	14.8	9.2	28.5	18.8	18.8	18.9	9.4	34.2	8.13
503	Cunning	SGPER	5	15.1	19.3	18	15.5	10.3	22.9	16.7	0.286	764.964	15.7	17.5	29.3	15.4	7.7	29.2	18.7	18.5	18.3	7.31	40.6	9.69
504	Cowan	SGPER	5	15.4	22.5	14.1	14.8	11.1	20	16.4	0.286	811.0867	14.4	16.1	21	13.5	7.7	25.7	16.9	16.4	18.2	9.14	30.4	6.09
505	Curtin	SGPER	5	9.8	20.3	6.4	8.7	8.3	9.1	9.7	0.334	1174.873	10.1	22.7	10.4	8.6	9.7	11.6	10.4	10.9	9.2	2.79	21.5	6.83
506	Dunack	SRWAL	5	12.4	19	12.1	10.5	12.2	13.9	12.8	0.313	842.145	9.4	11.2	13.2	8.3	6.2	9	9.3	9.6	15.2	3.09	9.9	5.55
507	Forest	SRWAL	5	14.2	18.6	15.6	13.7	11.6	20.7	15.9	0.287	803.6905	13.8	16.9	21.5	13.8	5.4	20.1	15.4	15.8	15.2	5.67	30.6	9.04
508	Frommle	SGPER	5	12.3	18.1	9.2	11.8	12.1	14.9	12.8	0.303	921.2333	12.3	18	16.2	10.9	7.8	19.3	13.8	13.9	13	5.31	35.8	7.28
509	Hanlack	SGPER	5	13.9	19.8	14.9	13.3	10	19.4	14.9	0.295	829.24	13.4	15.3	21.9	12.5	7.2	24.8	15.7	15.9	17.5	7.93	30.8	6.4
510	Moore	SGPER	5	9	14	8.3	8	8	11.1	9.4	0.288	979.6	10	15.1	15.5	8.5	5.5	15.3	11.1	11.5	11.5	5.2	27.9	4.87
511	O'Connor	SRWAL	5	13.1	18.5	13.3	12.3	11.1	18.3	14.4	0.302	798.15	10.5	12.7	15.6	10.2	5.7	12.9	11.1	11.7	13.6	4.19	18.2	6.27
512	Ponze	SGPER	5	14.9	18.6	16.2	14.1	11.3	21.7	16.6	0.285	834.6696	16.5	16.4	26.9	14.4	9.4	28.8	19.6	19.1	18.3	9.87	34.2	7.99
513	Perth	SGPER	5	12	22.4	7.5	11.5	12.4	13.6	12.3	0.322	969.17	12.7	21.5	13.5	11.3	8.5	18.3	13.6	13.7	11.6	3.77	22.9	8.73
514	Stirling	SGPER	5	14.4	24.7	10.2	14.2	12.6	18.1	15.1	0.319	862.4	13.2	18.2	16.2	12.5	8.4	23	15	15	14.6	4.92	26.7	8.82
515	Swan	SGPER	5	14.9	27.4	11.4	13.4	12.9	15.9	15.2	0.323	881.4467	14.3	21.8	17.2	12.1	8.9	20.8	15.5	15.6	14.4	4.48	23.9	9.77
516	Tangney	SGPER	5	11.2	20.6	7.7	9.8	9.6	13	11.6	0.325	942.6	10.1	18.2	10.6	9.3	5.7	15.8	11.1	11.1	12.5	4.2	34.6	5.13
601	Bass	6RTAS	6	11.7	23.5	13.6	9.3	8.2	18	12.6	0.291	672.0231	11.5	22.8	11.2	10.1	7.8	15.3	12.2	15.1	10.1	3.06	15.1	11.49
602	Bradton	6RTAS	6	11.5	16.2	14	11	9	18.5	12.7	0.255	697.7923	10.4	15.6	9.7	11	7.4	14.2	10.6	14.2	10.6	3.15	33.4	10.35
603	Clark	6GHOB	6	11.7	21.5	13.4	12.4	1.7	19.6	13	0.287	733.8667	10.3	18.4	5.8	12.8	2.8	22	12.5	13.3	5	1.41	33.3	11.87
604	Franklin	6GHOB	6	9.6	13.2	11.7	11.2	3.6	17.5	11.1	0.272	715.5	9	13.8	9	11.5	1.8	22.5	11.9	11	9.4	3.22	32.9	7.8
605	Lyons	6RTAS	6	11.1	14.8	11.6	11.4	8.7	16.6	12.1	0.253	665.1391	9.8	15	9.8	10.6	5.8	14.6	10.7	12.8	11.7	3.96	31.5	7.88
701	Lingari	7RNTE	7	25	31.1	26.9	16.9	48.2	12.8	22.8	0.354	752.2875	6	5.8	1.9	7.1	8.8	7.9	6.4	6.9	10.2	2.97	6.5	3.47
702	Solomon	7RNTE	7	9.4	9	8	7.7	21.6	6.7	8.8	0.295	1004.227	7.7	4.9	5	9.5	9.2	13.9	9.1	9.2	5.1	1.72	14.8	7.43
801	Bean	8ACTE	8	6	5.1	8	6.6	2.8	11.7	7.1	0.274	1080.114	5.3	6.3	6.1	6	1.6	9.1	6.1	6.3	4.6	1.9	15.4	3.82
802	Cambera	8ACTE	8	6.7	10.2	8.8	6.2	2.7	13.9	7.9	0.286	1234.517	6.5	14.9	6.8	6.2	0	9.7	7.1	7.8	3.2	0.86	15.8	6.46
803	Fenner	8ACTE	8	7.5	9.5	8.3	7.6	2.7	13.8	8.9	0.267	1058.829	7.4	11	7.7	7.7	2.3	10.7	8.2	8	5.7	2.54	15.8	5.06