



Supplementary Materials: Thermal Personalities of Older People in South Australia: A Personas-Based Approach to Develop Thermal Comfort Guidelines

Helen Bennetts ^{1,*}, Larissa Arakawa Martins ¹, Joost van Hoof ^{2,3} and Veronica Soebarto ¹

¹ School of Architecture and the Built Environment, The University of Adelaide, North Terrace, Adelaide, SA 5005, Australia; larissa.arakawamartins@adelaide.edu.au (L.A.M.); veronica.soebarto@adelaide.edu.au (V.S.)

² Faculty of Social Work & Education, The Hague University of Applied Sciences, Johanna Westerdijkplein 75, 2521 EN Den Haag, The Netherlands; j.vanhoof@hhs.nl

³ Institute of Spatial Management, Faculty of Environmental Engineering and Geodesy, Wrocław University of Environmental and Life Sciences, ul. Grunwaldzka 55, 50-357 Wrocław, Poland

* Correspondence: helen.bennetts@adelaide.edu.au; Tel.: +61-8-313-5836

Table S1. Results of cluster analysis.

Clusters	1 (n=8)	2 (n=38)	3 (n=8)	4 (n=99)	5 (n=88)	6 (n=62)	All (n=303)
Age ($p = 0.000^*$)							
65-74	75%	16%	0%	45%	40%	34%	37%
75-84	25%	45%	13%	35%	48%	45%	41%
85+	0%	39%	88%	19%	13%	21%	21%
Sex ($p = 0.000$)							
Female	88%	79%	75%	61%	85%	23%	63%
Male	13%	21%	25%	39%	15%	77%	37%
Living Arrangement ($p = 0.000$)							
With partner/other	0%	3%	13%	78%	68%	66%	59%
Alone	100%	97%	88%	22%	32%	34%	41%
Household income ($p = 0.000$)							
<AUD 30,000	38%	74%	63%	10%	22%	16%	25%
AUD 30,000 – AUD 50,000	13%	18%	38%	38%	43%	50%	39%
>AUD 50,000	50%	8%	0%	52%	35%	34%	36%
Mobility (walking about) ($p = 0.001$)							
No problem	0%	55%	38%	62%	51%	53%	54%
Slight problem	38%	29%	25%	24%	27%	19%	25%
Moderate problem	25%	16%	25%	11%	16%	24%	17%
Severe problem	25%	0%	13%	3%	6%	2%	4%
Unable to walk about	13%	0%	0%	0%	0%	2%	1%
Self-care (wash and dress self) ($p = 0.000$)							
No problem	88%	95%	88%	93%	93%	95%	93%
Slight problem	0%	3%	0%	7%	7%	3%	5%
Moderate problem	0%	3%	0%	0%	0%	2%	1%
Severe problem	0%	0%	13%	0%	0%	0%	0%
Unable to wash or dress self	13%	0%	0%	0%	0%	0%	0%
Usual activities ($p = 0.000$)							
No problem	13%	74%	38%	74%	70%	74%	70%
Slight problem	25%	21%	13%	17%	20%	13%	18%
Moderate problem	50%	5%	38%	8%	8%	10%	10%
Severe problem	0%	0%	13%	1%	1%	3%	2%
Unable to undertake usual activities	13%	0%	0%	0%	0%	0%	0%

Pain/discomfort ($p = 0.000$)							
No problem	25%	26%	38%	32%	32%	42%	33%
Slight problem	0%	50%	38%	47%	34%	34%	40%
Moderate problem	38%	18%	0%	17%	30%	24%	22%
Severe problem	38%	3%	25%	2%	2%	0%	3%
Extreme problems	0%	3%	0%	1%	2%	0%	1%
Anxiety/depression ($p = 0.000$)							
No problem	38%	71%	50%	77%	60%	79%	70%
Slight problem	0%	18%	13%	16%	31%	18%	20%
Moderate problem	38%	11%	38%	5%	8%	3%	8%
Severe problem	13%	0%	0%	2%	1%	0%	1%
Extreme problems	13%	0%	0%	0%	0%	0%	0%
Weather-related medical symptoms ($p = 0.046$)							
0	38%	66%	25%	72%	59%	76%	66%
1	38%	26%	25%	19%	25%	16%	22%
2	13%	8%	38%	8%	10%	5%	9%
3	13%	0%	13%	1%	6%	3%	3%
First thing to keep cool ($p = 0.000$)							
Personal strategies	0%	47%	38%	33%	20%	18%	27%
Household strategies	75%	24%	0%	34%	56%	29%	38%
Technology	25%	29%	63%	32%	24%	53%	34%
First thing to keep warm ($p = 0.000$)							
Personal strategies	25%	68%	63%	62%	66%	26%	55%
Household strategies	25%	3%	13%	13%	13%	3%	10%
Technology	50%	29%	25%	25%	22%	71%	35%
Concern about heating/cooling cost ($p = 0.000$)							
Not at all concerned	13%	47%	63%	15%	23%	42%	28%
Concerned	13%	42%	25%	54%	33%	37%	41%
Very or extremely concerned	75%	11%	13%	31%	44%	21%	31%
Location ($p = 0.000$)							
Iron Triangle - semi arid (Bsk)	50%	21%	13%	3%	16%	23%	15%
Adelaide - warm temperate (Csa)	50%	45%	75%	58%	18%	26%	38%
Fleurieu Peninsula or Adelaide Hills - mild temperate (Csb)	0%	34%	13%	39%	66%	52%	47%
Age of house ($p = 0.014$)							
<10 years	13%	5%	38%	10%	11%	2%	9%
11 to 20 years	0%	11%	13%	26%	27%	23%	23%
>20 years	88%	84%	50%	64%	61%	76%	68%
Heating ($p = 0.000$)							
None	38%	0%	0%	0%	0%	0%	1%
Ducted RC**	0%	8%	25%	87%	3%	2%	31%
Split system RC	25%	32%	75%	2%	90%	71%	48%
Electric portable or panel	25%	13%	0%	2%	2%	6%	5%
Gas	13%	29%	0%	7%	0%	16%	10%
Wood fire	0%	18%	0%	0%	3%	5%	4%
Underfloor	0%	0%	0%	2%	1%	0%	1%
Cooling ($p = 0.000$)							
None	0%	26%	0%	0%	0%	5%	4%
Ducted RC	13%	5%	25%	89%	6%	10%	34%
Split system RC	13%	39%	75%	3%	93%	76%	51%
Ducted evaporative	50%	13%	0%	8%	0%	6%	7%
Window or portable	25%	16%	0%	0%	1%	3%	4%
In retirement village? ($p = 0.000$)							
No	100%	97%	0%	94%	76%	94%	87%
Yes	0%	3%	100%	6%	24%	6%	13%

* Threshold of Pearson's Chi-Square (X^2) test of significance considered as $p < 0.05$

** RC — reverse cycle air conditioner. In some countries, this is called a heat pump.