



Diversity in housing experiences and their correlates for New Zealand adults aged 75+ and 65-74 years.

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Introduction

The recently published World Health Organisation report entitled “Framework for Policy for Healthy Ageing”¹ brings a new perspective to understanding the wellbeing of older people. Key issues to be addressed in healthy ageing policies include those around environmental supports for older people’s wellbeing, a conceptualisation of health that goes beyond individually focused policies. This provides a stronger focus on the broader environment and the support it provides for everyday functioning and wellbeing.

Housing is an aspect of the environment whose important effects on older people’s wellbeing is now being taken into account. In addition to the well recognized impact of housing insulation and heating on physical health², other aspects of housing, including tenure type, housing difficulties and support, and housing social environments and neighborhoods, are being shown to have important implications for wellbeing. We have been using data from the Health, Work and Retirement (HWR) study to examine these relationships in Aotearoa and show that housing tenure and housing quality are significantly related to wellbeing, quality of life and loneliness³⁻⁹.

Regarding tenure, home ownership, compared to renting, contributes to better quality of life over time and promotes healthy ageing. HWR data showed that quality of life increased, while depression decreased, over time for homeowners, while tenants’ lower quality of life and higher depression did not improve over time. Overall, home ownership was a significant protective factor against the harmful effects of emotional loneliness^{3,4}.

Housing satisfaction, neighbourhood qualities, and neighbourhood social cohesion have been shown to predict quality of life^{5,6}, physical, mental, and social health⁷, and be more strongly related to loneliness than individual and social participation variables⁸. These findings showed that housing factors were related to these aspects of wellbeing over and above expected predictors such as health, chronic conditions, or socioeconomic status. A recent analysis⁹ has additionally shown that older people can improve their quality of life by moving to a new house.

In the present analysis we provide a descriptive picture of the housing status of older people in Aotearoa/New Zealand in 2020. We aimed to:

1. Describe the Housing Type, Tenure, Housing Condition, Household Composition, Housing Satisfaction, Neighbourhood Satisfaction, Neighbourhood Accessibility, and Neighbourhood Trust reported in 2020 by those aged over 75 years (compared to those aged 65-74).

2. Describe the relationship between Housing Tenure, Condition, Satisfaction, Neighbourhood Satisfaction, Accessibility, and Social Cohesion and levels of: Living Standards (material hardship), Social Participation, Social Support, Falls, and Quality of Life, among these older New Zealanders.
3. Describe these relationships according to: Gender, Māori ethnicity, Caregiving status, Hearing or Vision impairment, and Driving status.

Method

Participants

The sample for this report comprised respondents to the 2020 survey wave of the New Zealand Health, Work and Retirement (HWR) study. The HWR is a longitudinal prospective cohort study that has been collecting information about older New Zealanders aged 55 and above biennially since 2006¹⁰. In addition to following the original cohort recruited in 2006, refresh samples were included in 2014-2020 to maintain representation of young-old adults. Participants were randomly selected (with an oversample of Māori) from the New Zealand General Electoral Roll. Participants received a postal questionnaire with a free return envelope. The questionnaire included seven sections assessing health, wellbeing, and quality of life; family and friends; living environments; work and retirement; financial wellbeing; personality; and demographics.

The 2020 sample included $N = 4351$ respondents. After weighting, $N = 790$ were aged 75 to 92 years and the comparison group aged 65-74 ($N = 1401$). Demographic descriptors of these two samples are shown in Table 1.

Table 1. Demographic Descriptors of Two Age Groups

	75+ Years		65-74 Years	
	Frequency	Percent	Frequency	Percent
Male	390	49.3	683	48.8
Female	401	50.7	717	51.2
Partnered	487	63.0	1065	76.7
Not partnered	286	37.0	324	23.3
Māori	61	7.9	135	9.7
NZ European	666	86.0	1164	83.5
Other ethnicity	46	6.0	94	6.8
Age	Range 75-92	$M = 80$ years	Range 65-74	$M = 69$ years

Measures

Demographics

Age, reported by participants as birth date, was rounded to the nearest year for use in the present analysis.

Gender was reported as “male/tāne, “female/wāhine”, or “gender/diverse”. Participants in the present sample only reported being male and female (Male = 1; Female = 2).

Marital status was reported using one of five response categories. This variable was dichotomised to categorise participants as either “Married or defacto” (Partnered = 1) or “Not married or defacto” (Not Partnered = 2).

Ethnicity was based on the 2018 census item which listed common ethnic groups and asked participants to check all that apply and add others. Multiple ethnic identity was recorded as ‘prioritised ethnicity’, a method in which individuals are classified into one ethnic group, in a prioritised order of: Māori, Pacific Peoples, Asian, Middle Eastern/Latin American/African (MELAA), Other, European¹¹. For the present analyses, owing to low representation of those who identified as other than NZ European or Māori, the sample was considered in terms of three groups: Māori, NZ European and other.

Caregiving was assessed by asking “Have you provided care for someone with a long-term illness, disability or frailty within the last 12 months? (Yes = 1; No = 0)”.

Driving status was measured by asking “What is your current driving status? (Current Driver, Past Driver, Never been a driver)”. This variable was dichotomised for analysis (Never/has been a driver = 0; Current driver = 1).

Wellbeing

Falls were assessed by one item: “In the past six months, have you had any falls including a slip or trip in which you lost your balance and landed on the floor or ground (e.g., trip over on a footpath, slip down some stairs, fall from a ladder)?” (No, not at all; Yes, once; Yes, twice; Yes, 3 or more times). This variable was dichotomised for analysis (No = 1; Yes = 2). *Slips* were assessed by one item. “In the past six months, have you slipped or tripped but managed to stop yourself falling (e.g., by grabbing furniture for support, or, regaining your balance)?” (No, not at all; Yes, once; Yes, twice; Yes, 3 or more times). This variable was dichotomised for analysis (No = 1; Yes = 2).

Physical and Mental Health were assessed using the SF-12v2 Australian and New Zealand form¹². The SF-12v2 is one of the most widely utilised and validated general health assessment tools available with a large body of normative data and extensive international validation¹⁰. Standardized totals for the physical and mental health component scores were calculated with reference to normative subscale

scores and factor coefficients for the New Zealand population¹³ relative to an adult population mean score of 50 with a standard deviation of 10 (a higher score means better physical or mental health).

Quality of Life was assessed in two ways. First using the single item: “How would you rate your quality of life?” with 5 responses on a five-point Likert type scale from 1 ‘Very poor’ to 5 ‘Very good’.

Responses were summed and averaged to provide a total score from 1-5.

The second measure was the CASP-12¹⁴ developed as a measure of quality of life (QoL) to take into account the perspectives of older people within the changing context of ageing by assessing four conceptual domains of QoL: ‘control’, ‘autonomy’, ‘self-realisation’ and ‘pleasure’. The CASP-12 is a short version which requires participants to indicate how often each of 12 statements applies to them (example items ‘*I feel left out of things*’ and ‘*I can do the things that I want to do*’). Responses to all 12 items were scored on a 4-point Likert scale ranging from ‘3’ Often to ‘0’ Never, with negative items reversed such that higher scores reflect greater perceived quality of life. Scores were summed to provide an overall score with a possible range of 0-36 with 36 meaning higher QoL. (The two QoL measures were strongly correlated at $r = .63$).

Social Wellbeing

Social Participation was measured by asking participants about their involvement in clubs and organisations in the community. This variable was dichotomised to distinguish between those who had no involvement and those who were involved in at least one club or social organisation (No involvement = 1; Some involvement = 2).

Social Support was assessed using the Social Provisions Scale (SPS)¹⁶; 24 items assess six aspects of perceived social support. Scores on all items (e.g., There are people who depend on me for help; I lack a feeling of intimacy with another person) were summed to provide a total social support score (range 0-96). Higher scores reflect higher levels of perceived social support.

Socioeconomic Status (SES) was assessed using the Economic Living Standards Index short form (ELSI-SF), a 25-item non-income measure of financial restrictions on material goods, economising behaviours, and social activities (Jensen et al., 2005). The scores were summed to create a continuous measure of SES ranging from 0-31, with higher scores indicating better material living standards and these scores were used in the analyses. These scores have also been interpreted as indicating ‘*good*’ (31-25), ‘*comfortable*’ (24-17), and ‘*hardship*’ (16-0) in living standards. Figure 1 shows the distribution of these scores in the present samples.

Housing

Housing type was measured by asking participants “Which one of the following options best describes the type of residence that you currently live in (your primary residence)?” Six response categories

provided were: House or townhouse (detached or 'stand alone'); House, townhouse, unit or apartment (joined to one or more other houses, townhouses, units or apartments); Unit, villa or apartment in Retirement Village; Moveable dwelling (e.g., caravan, motor home, boat, tent); Rest home or continuing care hospital; Other (Please specify).

Housing tenure was measured by asking "In terms of the ownership arrangements your primary residence is:" (eight response categories provided). Prior to analysis, responses to this item were dichotomised (Owned = 1; Renting = 2).

Participants were also asked "How long have you lived in your present home?" and reported their response in years and months. Analysis was conducted using the year reported only.

Housing satisfaction was assessed in terms of 8 items assessing satisfaction with their home⁵⁻⁷ (example item: 'My home meets all my needs') (see figure 3). Response categories were recorded on a scale of 1 'no, definitely not' to 5 'yes, definitely'. Negatively worded items were reverse scored. Total scores were calculated as the sum of mean component item ratings (score ranges 1-5) with higher scores meaning greater satisfaction with housing.

Housing condition was measured by asking "How would you describe the condition of your current residence?" This variable was dichotomised (Good = 1; Poor = 2). Good condition included houses that did not need immediate repairs or maintenance. Houses in poor condition needed immediate repairs, maintenance, or extensive repairs. This variable was used in the analyses.

Other assessments of housing condition included items regarding the warmth and mould issues in the home. The responses to the three housing condition items are portrayed in Figure 2.

Living alone was assessed using participants' indications of their household composition (number and type of people in the household). This item was used to indicate whether each respondent lived alone (no other people in household) or not (Not alone = 1; Alone = 2).

Neighbourhood

Neighbourhood Satisfaction was measured using a single item⁵⁻⁷ asking participants to rate how satisfied they were with their neighbourhood from 1 'No, definitely not' to 5 'Yes, definitely'.

Neighbourhood Accessibility assessed the neighbourhood's access to important facilities using three items⁵⁻⁷ (for example, "I can get to the shops easily") with responses on a scale of 1 'No, definitely not' to 5 'Yes, definitely'. A total score was created by summing the item scores and calculating the mean. Range is 1-5 with 5 meaning greater neighbourhood accessibility.

Neighbourhood Trust was assessed with the six-item subscale of the Neighbourhood Social Cohesion tool¹⁵ (example item: ‘People in this area would do something if a house was being broken into’) on a scale of 1 ‘strongly disagree’ to 5 ‘strongly agree’. After reverse coding negatively worded items, a total score was created by calculating the participants’ mean response across the six items. Range is 1-5 with higher scores meaning greater trust in the neighbourhood. (See⁵⁻⁷ for more details regarding origins and validity of all housing and neighbourhood variables used)

Weights

Design weights were calculated to account for over-sampling of persons of Māori descent within the sampling frame and scaled to sample size. Response weights for the 2020 survey wave were calculated to weight data with reference to respondent age, gender, Māori descent, and area-level deprivation, relative to samples drawn from the sampling frame, and scaled to number of survey respondents. Accordingly, the reported Ns differ from the original sample N.

Analysis

To examine relationships between pairs of variables, Pearson's r was used to calculate bivariate and point biserial correlations between the housing and neighbourhood variables and the social and wellbeing factors.

We examined group (gender, ethnicity, caregiving, vision and hearing impairment, driving) mean differences in housing experiences using t-tests (or Welch test if variances unequal) for inferential testing at $\alpha = .05$.

Figure 1. Frequencies for ELSI Categories across 2 Age Groups

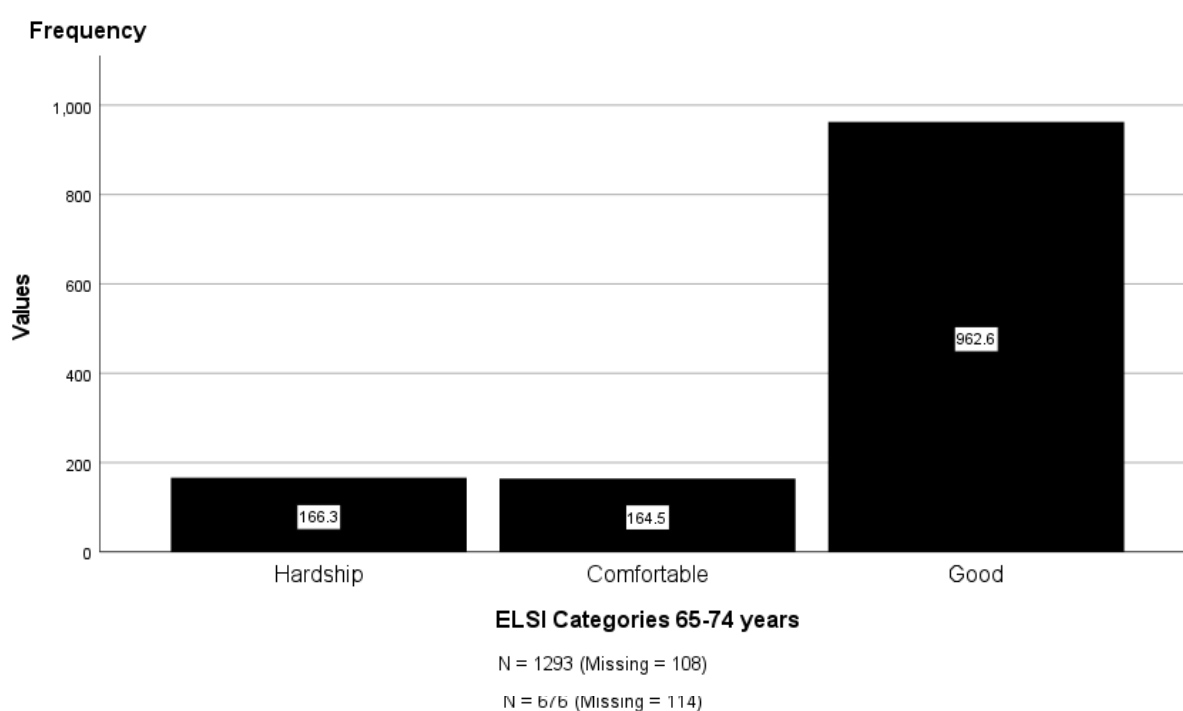
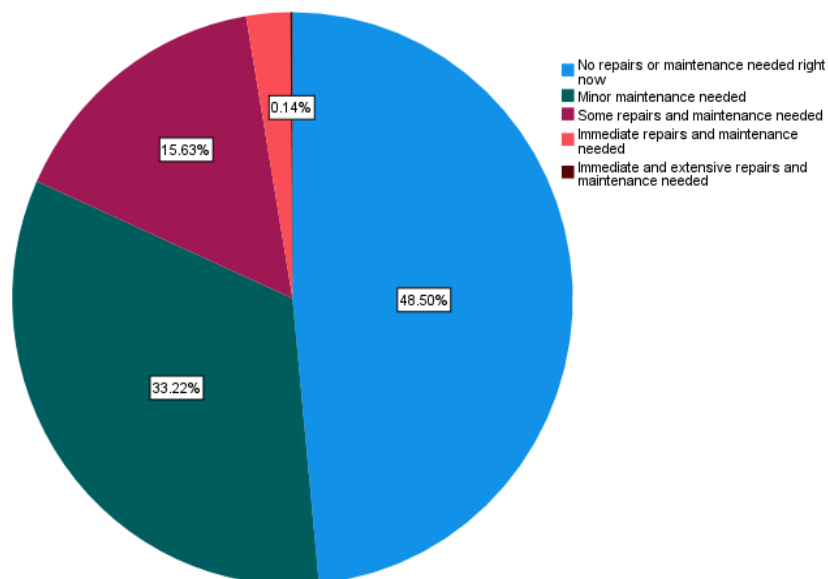


Figure 2. Percentage of responses to each housing condition item for 75+ age group.

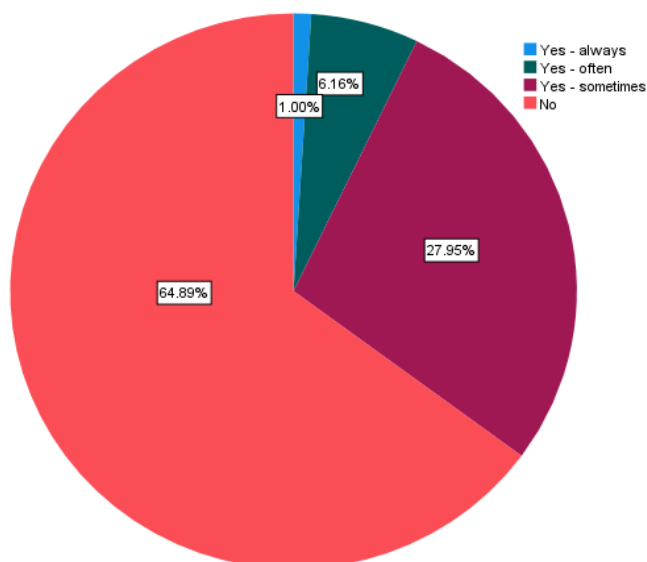
How would you describe the condition of your current residence?



N = 773

Missing = 17

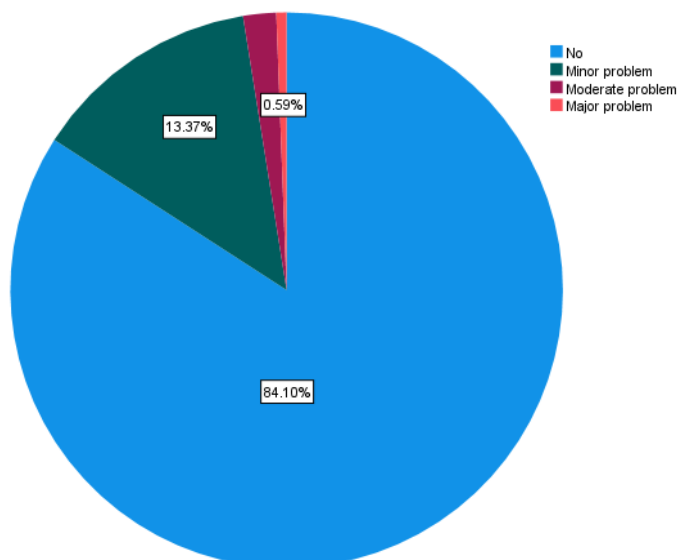
In winter, is your current residence colder than you would like?



N = 779

Missing = 11

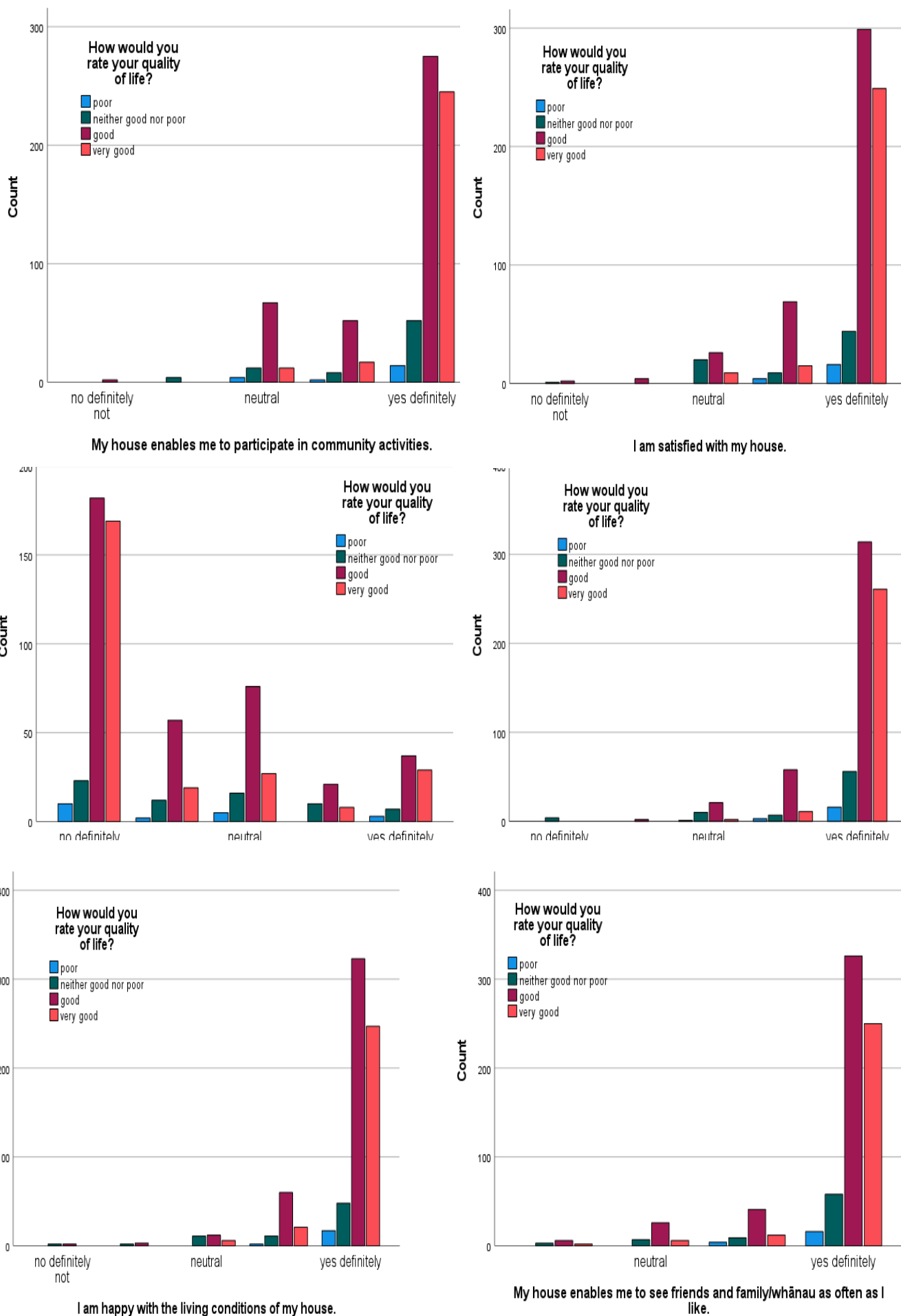
Does your residence have a problem with dampness or mould?

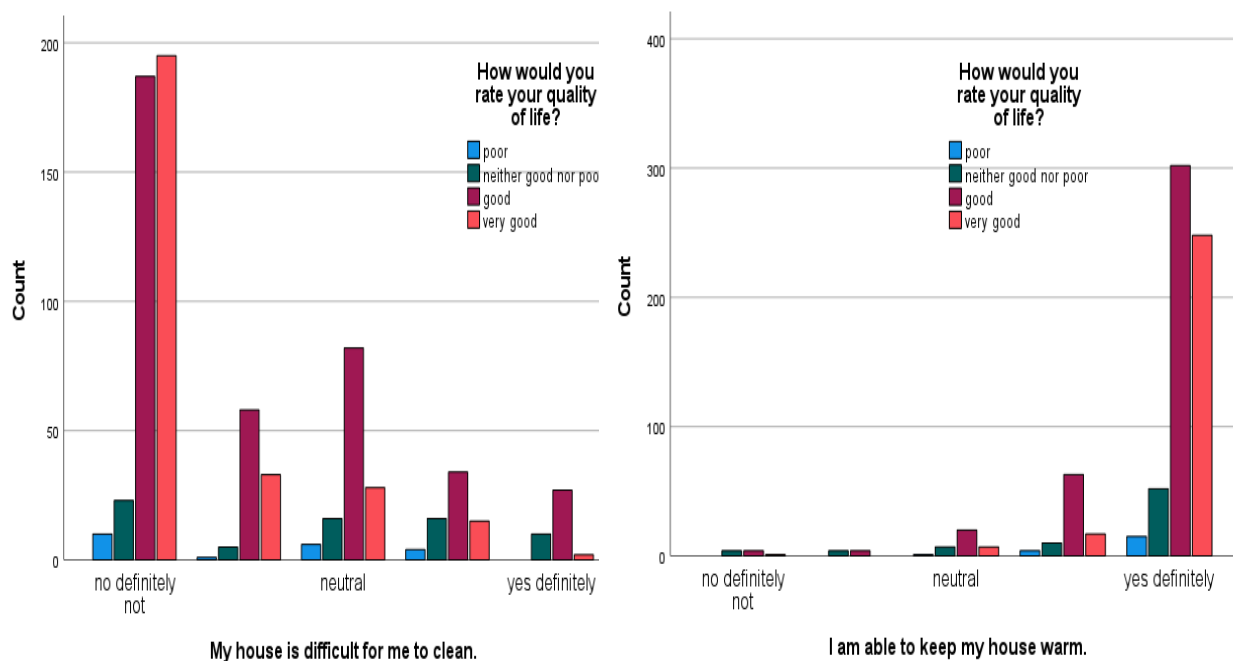


N = 780

Missing = 10

Figure 3. Responses to the 8 Housing Satisfaction items in relation to Quality of Life for 75+ age group.





Results

Housing for those over 75 Years

Objective indicators of people's housing situation (type, tenure, condition, and household composition) showed that people in this age group are generally well housed (Tables 2-3).

Housing Type: Most respondents lived in a detached house or town house (77%) or apartment (9%). Another 11% lived in a villa or apartment in a retirement village. A further 2.5% reported living in a moveable dwelling, a rest home or other (see Table 2).

Housing Tenure: Of these 86% owned their home (including right to occupy leases) and 14% were renting.

Housing Condition: For this age group housing condition was generally good; 97% reported good conditions and less than 3% reported poor housing in terms of needing repairs and maintenance.

Household Composition: Around one third of this age group lived alone (34%) while 66% lived with others.

Perceptions of housing such as housing and neighbourhood satisfaction also showed a positive picture for this group with ratings generally high as shown in Table 4. For housing satisfaction, neighbourhood satisfaction, accessibility to important facilities in the neighbourhood ratings were high, averaging around 4.7/5.00. Perceptions of neighbourhood trust were slightly lower on average at 3.5/5.00.

Table 2. Housing Type for Two Age Groups

	75+ Years		65-74 Years	
	Frequency	Percent	Frequency	Percent
House or Townhouse	594	77.4	1190	85.9
Unit or Apartment (Attached)	72	9.1	114	8.3
Moveable Dwelling	4	.5	8	.6
Rest Home or Continuing Care	2	.2	5	.3
Other	13	1.7	48	3.5

Table 3. Tenure Status and Housing Quality for Two Age Groups

	75+ Years		65-74 Years	
	Frequency	Percent	Frequency	Percent
Owners	657	86.3	1190	85.9
Renting	104	13.7	114	8.3
Living with others	520	65.8	1120	80.0
Living alone	270	34.2	281	20.0
House in Good Condition	753	97.3	1312	94.6
House in Poor Condition	21	2.7	75	5.4

Table 4. Perceptions of Housing and Neighbourhood Quality of Two Age Groups

	75+ Years		65-74 Years	
	Range	Mean (SD)	Range	Mean (SD)
Housing Satisfaction	1-5	4.70 (.66)	1-5	4.53 (.82)
Neighbourhood Satisfaction	1-5	4.69 (.66)	1-5	4.58 (.78)
Neighbourhood Trust	1.67-5	3.52 (.46)	1-5	3.48 (.47)
Neighbourhood Accessibility	1-5	4.64 (.62)	1-5	4.62 (.64)

Housing for those aged 65-74 Years

Objective indicators of people's housing situation (type, tenure, condition, and household composition) showed that people in this age group were also generally well housed (Tables 2-4).

Housing Type: A higher percentage of respondents lived in a detached house or town house (86%) or apartment (8%). Only 1.5% lived in a villa or apartment in a retirement village. A further 4.5% reported living in a moveable dwelling, a rest home or other (See Table 2).

Housing Tenure: Of these 93% owned their home (including right to occupy leases) and 7% were renting. This pattern, highest home ownership for those in their 60s and 70s, reducing slightly for the oldest age groups as people move into care or into homes owned by family members¹⁷.

Housing Condition: For this age group housing condition was also good; 95% reported good conditions and only 5% reported poor housing needing serious repairs and maintenance.

Household Composition: Around one fifth of this age group lived alone (20%) while 80% lived with others.

Perceptions of housing such as housing and neighbourhood satisfaction also showed a positive picture for this group with ratings generally high as shown in Table 4. For housing satisfaction, neighbourhood satisfaction, access to important facilities in the neighbourhood ratings were high, averaging around 4.6/5.00. Perceptions of neighbourhood trust were lower on average at 3.5/5.00.

Correlates of Housing Variables

Figure 3 shows the 8 housing items across the 4 categories of Quality of Life. Those who reported good quality of life were more likely to respond positively to the housing satisfaction items. This relationship is reflected in significant positive correlations between the composite variable of Housing Satisfaction and both measures of Quality of Life as shown in Tables 5 and 6. Here we discuss the relationships between all measures of wellbeing and housing/neighbourhoods shown by correlation analysis.

Housing Focus

Tables 5 and 6 show the correlations between wellbeing factors and housing variables for the two age groups respectively. The associations of interest are weak to moderate, but the pattern of relationships is important. Significant coefficients are highlighted in the tables to focus on the consistent patterns across the housing variables.

Perceptions of housing quality (housing satisfaction, neighbourhood satisfaction, accessibility, and trust) are consistently related to socioeconomic status, quality of life, falls, social support, and mental health. This pattern is echoed by participant assessments of their current house condition.

Housing tenure and years lived in the present home are not related to wellbeing for those aged 75+. For this age group, the lack of association with housing tenure probably reflects the high rate of home ownership and good housing security. Table 6 shows that housing tenure is related to all wellbeing variables for the 65-74 years group which has a higher proportion of renters (although still low compared to younger generations). For the younger group, years lived in the home remains non-significant.

Another difference of note is that for those aged 75+, neighbourhood trust is more consistently related to the wellbeing variables (except for slips and physical health). Neighbourhood trust, which we have found to be a consistently important aspect of the environment⁵⁻⁸ is also more strongly related to falls prevention and social participation among this older group. These differences may reflect the higher importance of neighbourhood social factors as people age. Older people spend a higher proportion of time in the home and, hence, home and neighbourhood factors assume greater importance for many aspects of wellbeing.

Wellbeing Focus

Tables 7 and 8 show the same set of correlations with significant coefficients highlighted to focus on the consistent patterns across the wellbeing variables. Considering self-assessed health, it is noteworthy that while mental health is consistently related to the housing variables, physical health is only weakly related to neighbourhood satisfaction and neighbourhood accessibility among those aged 75+. It is important to note that the direction of effects cannot be determined from these data, however, it is likely that level of physical health is affecting both a person's satisfaction with their neighbourhood and their perceptions of accessibility to important facilities. For the younger group, the association with physical health is stronger across the housing variables.

Quality of Life (measured with the CASP or single item QoL) is consistently related across all the housing variables (except years lived in the home) for both groups. For the 75+ group the strongest relationship is with perceptions of neighbourhood accessibility.

Socioeconomic status is most likely to be predicting housing satisfaction and housing quality as shown by the significant correlations for both groups. For the younger group, SES has the strongest correlations with housing satisfaction (.41) and housing condition (-.34) and is also related to tenure and living alone.

Social support is also consistently related to the housing variables for both groups. Social participation is not important in this context. (Social support was measured in terms of perceptions of support from several sources, while participation was assessed as membership in different groups).

Falls, a wellbeing factor of some concern among the older population, are less likely among the 75+ age group, if people report better housing condition, higher perceptions of housing satisfaction, and neighbourhood satisfaction, trust, and accessibility.

Tables 4-7 also report the correlations among the housing or wellbeing variables and there are several moderately strong correlations as expected. For example, housing condition is correlated with housing satisfaction (.4) and housing and neighbourhood satisfaction are also moderately correlated (.37). Likewise, several wellbeing factors are well correlated with SES, which in turn is related to housing, suggesting a focus for support.

Table 5. Correlations between Housing Variables and Wellbeing for 75+ years Age Group. Focus on Housing Variables.

	Housing Tenure	Live Alone	Years in Home	Housing Cond.	Housing Sat.	Neighb. Sat.	Neighb. Access.	Neighb. Trust	ELSI	Social Partcpn	Social Support	Falls	Slips	QoL	CASP	SF-12 Mental
Live Alone	.14**	1														
Years Home	-.31**	-.08*	1													
HousingCond.	-.05	.07*	.03	1												
Housing Sat.	.04	-.03	-.08*	-.41**	1											
Neighb. Sat.	.08*	-.01	-.06	-.12**	.37**	1										
Neigh. Access	.07	-.08*	-.03	-.16**	.31**	.30**	1									
Neighb. Trust	.12**	-.06	-.07	-.09*	.22**	.30**	.27**	1								
SES	.01	-.04	-.02	-.31**	.27**	.18**	.23**	.11**	1							
Social Partn.	.05	.03	-.05	.04	.03	-.03	-.01	.16**	.11**	1						
Social Supp.	-.03	-.21**	.01	-.15**	.26**	.17**	.25**	.16**	.20**	.07	1					
Falls	-.03	.04	-.00	.09	-.16**	-.11**	-.11**	-.16**	-.09*	-.16**	-.19**	1				
Slips	-.03	.08*	-.02	.11**	-.12**	-.09*	-.08*	-.03	-.10**	-.05	-.09*	.36**	1			
QoL	.04	-.15**	.04	-.19**	.21**	.22**	.27**	.16**	.28**	.15**	.39**	-.16**	-.11**	1		
CASP Qol	-.02	-.10**	.04	-.14**	.21**	.19**	.29**	.14**	.41**	.10**	.48**	-.15**	-.19**	.63**	1	
SF-12 Mental	-.012	-.13**	.03	-.09*	.12**	.20**	.20**	.14**	.30**	.16**	.41**	-.15**	-.14**	.57**	.68**	1
SF-12Physicl.	-.04	-.05	-.02	-.02	.04	.12**	.20**	.05	.22**	.18**	.13**	-.21**	-.19**	.51**	.44**	.27**

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 6. Correlations between Housing Variables and Wellbeing for 65-74 years Age Group. Focus on Housing Variables.

	Housing Tenure	Live Alone	Years in Home	Housing Cond.	Housing Sat.	Neighb. Sat	Neighb. Access.	Neighb. Trust	ELSI	Social Partcpr	Social Support	Falls	Slips	QoL	CASP	SF-12 Mental
Live Alone	.24**	1														
Years Home	-.20**	-.08**	1													
HousingCond.	.07**	.06*	.05	1												
Housing Sat.	-.18**	-.08**	-.04	-.40**	1											
Neighb Sat.	-.13**	-.14**	-.02	-.13**	.48**	1										
Neigh.Access.	-.06*	-.05*	.01	-.14**	.32**	.25**	1									
Neighb.Trust	-.03	-.02	-.00	-.06*	.21**	.31**	.15**	1								
SES	-.24**	-.24**	.07*	-.34**	.41**	.30**	.23**	.18**	1							
Social Partn.	-.10**	-.07*	.01	.01	.06*	.09**	.04	.03	.11**	1						
Social Supp.	-.10**	-.21**	.03	-.14**	.33**	.32**	.28**	.13**	.40**	.14**	1					
Falls	.07**	.04	-.03	.05	-.08**	-.06*	-.04	-.00	-.18**	.01	-.07*	1				
Slips	.09**	.06*	.04	.06*	-.09**	-.08**	-.13**	-.03	-.19**	.07*	-.07**	.40**	1			
QoL	-.17**	-.13**	.04	-.21**	.34**	.30**	.26**	.13**	.50**	.12**	.45**	-.13**	-.13**	1		
CASP	-.11**	-.13**	.01	-.23**	.30**	.33**	.29**	.18**	.57**	.16**	.52**	-.14**	-.19**	.63**	1	
SF-12 Mental	-.06*	-.10**	-.01	-.15**	.31**	.28**	.18**	.09**	.36**	.11**	.39**	-.10**	-.18**	.53**	.65**	1
SF-12 Physicl	-.16**	-.10**	.05	-.17**	.16**	.14**	.17**	.02	.40**	.09**	.20**	-.24**	-.22**	.48**	.47**	.18**

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 7. Correlations between Housing Variables and Wellbeing for 75+ years Age Group. Focus on Wellbeing Variables.

	Housing Tenure	Live Alone	Years in Home	Housing Cond.	Housing Sat.	Neighb. Sat.	Neighb. Access.	Neighb. Trust	ELSI	Social Partcpn.	Social Support	Falls	Slips	QoL	CASP	SF-12 Mental
Live Alone	.14**	1														
Years in Home	-.31**	-.08*	1													
Housing Cond.	-.05	.07*	.03	1												
Housing Sat.	.04	-.03	-.08*	-.41**	1											
Neighb. Sat.	.08*	-.01	-.06	-.12**	.37**	1										
Neighb. Access	.07	-.08*	-.03	-.16**	.31**	.30**	1									
Neighb. Trust	.12**	-.06	-.07	-.09*	.22**	.30**	.27**	1								
SES	.01	-.04	-.02	-.31**	.27**	.18**	.23**	.11**	1							
Social Partcpn.	.05	.03	-.05	.04	.03	-.03	-.01	.16**	.11**	1						
Social Support	-.03	-.21**	.01	-.15**	.26**	.17**	.25**	.16**	.20**	.07	1					
Falls	-.03	.04	-.00	.09	-.16**	-.11**	-.11**	-.16**	-.09*	-.16**	-.19**	1				
Slips	-.03	.08*	-.02	.11**	-.12**	-.09*	-.08*	-.03	-.10**	-.05	-.09*	.36**	1			
QoL	.04	-.15**	.04	-.19**	.21**	.22**	.27**	.16**	.28**	.15**	.39**	-.16**	-.11**	1		
CASP	-.02	-.10**	.04	-.14**	.21**	.19**	.29**	.14**	.41**	.10**	.48**	-.15**	-.19**	.63**	1	
SF-12 Mental	-.012	-.13**	.03	-.09*	.12**	.20**	.20**	.14**	.30**	.16**	.41**	-.15**	-.14**	.57**	.68**	1
SF-12 Physical	-.04	-.05	-.02	-.02	.04	.12**	.20**	.05	.22**	.18**	.13**	-.21**	-.19**	.51**	.44**	.27**

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Table 8. Correlations between Housing Variables and Wellbeing for 65-74 years Age Group. Focus on Wellbeing Variables.

	Housing Tenure	Live Alone	Years in home	Housing Cond.	Housing Sat	Neighb Sat	Neighb Access	Neighb Trust	SES	Social Particpn	Social Support	Falls	Slips	QoL	CASP	SF-12 Mental
Live Alone	.24**	1														
Years home	-.20**	-.08**	1													
HousingCond.	.07**	.06*	.05	1												
Housing Sat.	-.180**	-.08**	-.04	-.40**	1											
Neighb Sat.	-.13**	-.14**	-.02	-.13**	.48**	1										
NeighbAccess	-.06*	-.05*	.01	-.14**	.32**	.25**	1									
Neighb.Trust	-.03	-.02	-.00	-.06*	.21**	.31**	.15**	1								
SES	-.24**	-.24**	.07*	-.34**	.41**	.30**	.23**	.18**	1							
Social Partn	-.10**	-.07*	.01	.01	.06*	.09**	.04	.03	.11**	1						
Social Supp.	-.10**	-.21**	.03	-.14**	.33**	.32**	.28**	.13**	.40**	.134**	1					
Falls	.07**	.04	-.03	.05	-.08**	-.06*	-.04	-.00	-.18**	.01	-.07*	1				
Slips	.09**	.06*	.04	.06*	-.09**	-.08**	-.13**	-.03	-.19**	.07*	-.07**	.40**	1			
QoL	-.17**	-.13**	.04	-.21**	.34**	.30**	.26**	.13**	.50**	.12**	.45**	-.13**	-.13**	1		
CASP	-.11**	-.13**	.01	-.23**	.30**	.33**	.29**	.18**	.57**	.16**	.52**	-.14**	-.19**	.63**	1	
SF-12 Mental	-.06*	-.10**	-.01	-.15**	.31**	.28**	.18**	.09**	.36**	.11**	.39**	-.10**	-.18**	.53**	.65**	1
SF-12Physical	-.16**	-.10**	.05	-.17**	.16**	.14**	.17**	.02	.40**	.09**	.20**	-.24**	-.22**	.48**	.47**	.18**

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Comparisons for those age 65-74 years

For the younger group there were no differences for gender or ethnicity. Differences found, as described in Table 10 were for Neighbourhood Satisfaction: Those living alone were less satisfied on this dimension, $t(346.549) = 4.188, p < .001$; as were those with Vision Impairment, $t(156.051) = 3.354, p < .01$; and those with Hearing Impairment, $t(222.867) = 2.333, p < .05$. Those with Hearing Impairment were also less satisfied with the Accessibility of their neighbourhood, $t(242.466) = 3.966, p < .001$.

Table 10. Significant mean differences between demographic groups on housing and neighbourhood perceptions for 65-74 age group.

	Male	Female	Māori	NZ European	Live Alone	Live w others	Vison Impaired	No Vis. Imp.	Hearing Impaired	No Hear. Imp.
Housing Satisfaction										
Neighbourhood Satisfaction					4.36	4.63	4.31	4.61	4.43	4.60
Neighbourhood Accessibility									4.45	4.66
Neighbourhood Trust										

Summary

The majority of people aged 75+ in Aotearoa are well housed and satisfied with their neighbourhood provisions. However, there remain smaller percentages who experience difficulties with housing. These smaller groups are more likely to be renting, have poorer housing conditions, and experience less social cohesion in their neighbourhoods. These poorer housing conditions are related to poorer mental health, lower quality of life, and greater likelihood of falls. People who experience these conditions are also more likely to have lower living standards or SES. Although those of lower SES are less likely to be represented in HWR data (as a harder to reach or to maintain contact group whose members are more likely to suffer premature mortality) there is sufficient representation in these data to show the importance of housing to wellbeing in older age.

It is important to note the influence of neighbourhood factors on wellbeing. As attention is turned to the need for good quality housing for health, the importance of neighbourhoods, especially for older people whose daily lives are more likely to take place within neighbourhoods, remains overlooked. These data show the importance of neighbourhood satisfaction, accessibility, and trust in neighbours to mental health, quality of life, and the likelihood of falls. Older people with vision or hearing impairments are more likely to be dissatisfied with their neighbourhood quality or accessibility. Neighbourhoods are an aspect of housing provision that is not being currently well planned for. More attention must be paid to planning for social factors and accessibility of neighbourhoods. The concept of the '15 minute neighbourhood' a neighborhood in which one can access all day-to-day needs within a 15 or 20 minute walk from home, is gaining traction among planners and regulators in countries such as Canada and Australia (<https://www.strongtowns.org/journal/2019/9/6/7-rules-for-creating-15-minute-neighborhoods>; <https://www.planmelbourne.vic.gov.au/current-projects/20-minute-neighborhoods>) and proposed by some local bodies in Aotearoa (<https://ourhamilton.co.nz/growing-hamilton/a-20-minute-life-changer/>). Such proposals, which would improve the wellbeing of the ageing population, require stronger regulatory planning impetus here.

Comparisons between the groups of those aged 75+ and 65-74 years show that problem housing is more prevalent in the younger group. At present, older people in Aotearoa may be generally well off but as younger cohorts reach older age, housing and neighbourhood problems may increase. The simple fact that home ownership is rapidly decreasing among younger generations points to problems with the wellbeing of many more older people in the future. Because of the clear pattern of relationships shown between wellbeing and housing in older age, more planning must be put into the provision of appropriate quality housing and neighbourhoods for an ageing population.

References

1. World Health Organisation. (2015). *World Report on Ageing and Health*. <http://www.who.int/ageing/events/world-report-2015-launch/en/>: WHO.
2. Howden-Chapman, P., Viggers, H., Chapman, R., O'Sullivan, K., Barnard, L. T., & Lloyd, B. (2012). Tackling cold housing and fuel poverty in New Zealand: a review of policies, research, and health impacts. *Energy Policy*, *49*, 134-142.
3. Szabó A, Allen J, Alpass F, Stephens C. Longitudinal trajectories of quality of life and depression by housing tenure status. *The Journals of Gerontology Series B Psychological Sciences and Social Sciences*. 2017.
4. Szabó A, Allen J, Alpass F, Stephens C. Loneliness, socio-economic status and quality of life in old age: the moderating role of housing tenure. *Ageing & Society*. 2019;39(5):998-1021.
5. Stephens C, Szabó Á, Allen J, Alpass F. Livable Environments and the Quality of Life of Older People: An Ecological Perspective. *The Gerontologist*. 2019;39(4):675-85.
6. Stephens C, Allen J, Keating N, Szabó Á, Alpass F. Neighborhood environments and intrinsic capacity interact to affect the health-related quality of life of older people in New Zealand. *Maturitas*. 2020;139:1-5.
7. Stephens C, Szabó Á, Allen J, Alpass F. A Capabilities Approach to unequal trajectories of healthy ageing: The importance of the environment. *Journal of Aging and Health*. 2019;31(9):1527-48.
8. Stephens C, Phillips, H., Allen, J., Beagley V., & Alpass, F. . Loneliness on the Kapiti Coast: Initial Findings from the Social Connections Survey. Palmerston North, NZ: Health and Ageing Research Team, Massey University; 2019.
9. Stephens; C, Allen J. Older people as active agents in their neighbourhood environments: Moving can improve quality of life. *The Gerontologist*. 2021.
10. Allen J, Alpass F M, & Stephens C. (2019). New Zealand Health, Work and Retirement Longitudinal Study. In Gu D & Dupre M E (Eds.), *Encyclopedia of Gerontology and Population Aging* (pp. 1-7). Cham: Springer International Publishing.
11. Ministry of Health. HISO 10001:2017 Ethnicity Data Protocols. Wellington: Ministry of Health; 2017.

12. Ware, J. E., Kosinski, M., Turner-Bowker, D. M., & Gandek, B. (2002). *SF-12v2™: How to score version 2 of the SF-12® health survey*. Quality metrics.
13. Frieling, M. A., Davis, W. R., & Chiang, G. (2013). The SF-36v2 and SF-12v2 health surveys in New Zealand: norms, scoring coefficients and cross-country comparisons. *Australian and New Zealand Journal of Public Health*, 37(1), 24-31. <https://doi.org/10.1111/1753-6405.12006>
14. Hyde, M., Wiggins, R. D., Higgs, P., & Blane, D. B. (2003). A measure of quality of life in early old age: the theory, development and properties of a needs satisfaction model (CASP-19). *Aging & Mental Health*, 7(3), 186-194. <https://doi.org/10.1080/1360786031000101157>
15. Stafford, M., Bartley, M., Sacker, A., Marmot, M., Wilkinson, R., Boreham, R., & Thomas, R. (2003). Measuring the social environment: social cohesion and material deprivation in English and Scottish neighbourhoods. *Environment and Planning A*, 35(8), 1459-1475. <https://doi.org/10.1068/a35257>
16. Cutrona, C. E., Russell, D., & Rose, J. (1986). Social support and adaptation to stress by the elderly. *Psychology & Aging*, 1(1), 47-54.
17. Stats NZ. Housing in Aotearoa: 2020. Retrieved from www.stats.govt.nz; 2020

Appendix One

Distributions of housing and neighbourhood perceptions according to age group, for weighted and unweighted data.

Table 1.1. 75+ Age Group. Weighted Housing Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Housing Satisfaction	699.00	32.38	3.01	91.00	12.00	40.00
Male	354.00	32.34	2.68			
Female	345.00	32.43	3.32			
Total	699.00	32.39	3.01			
NZ European	593.00	32.43	3.02			
Maori	54.00	31.51	3.63			
Pasifika	7.00	33.54	1.93			
Asian	1.00	32.00	0.00			
Other	33.00	32.75	1.73			
Total	687.00	32.39	3.02			
No hearing impairment	560.00	32.41	3.00			
Some hearing impairment	137.00	32.30	3.07			
Total	697.00	32.39	3.01			
No vision impairment	591.00	32.42	2.76			
Some vision impairment	107.00	32.21	4.14			
Total	699.00	32.39	3.01			
Non-driver	22.00	31.23	3.43			
Driver	675.00	32.42	3.00			
Total	696.00	32.38	3.01			
Yes caregiver	104.00	32.49	3.28			
No caregiver	587.00	32.32	2.94			
Total	691.00	32.35	2.99			

Table 1.2. 75+ Age Group. Weighted Neighbourhood Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Satisfaction	777.00	4.69	0.66	13.00	1.00	5.00
Male	382.00	4.68	0.61			
Female	395.00	4.69	0.70			
Total	777.00	4.69	0.66			
NZ European	656.00	4.69	0.66			
Maori	60.00	4.60	0.73			
Pasifika	7.00	4.93	0.40			
Asian	2.00	5.00	0.00			
Other	37.00	4.73	0.45			
Total	763.00	4.68	0.66			
No hearing impairment	620.00	4.73	0.62			
Some hearing impairment	151.00	4.51	0.78			
Total	772.00	4.68	0.66			
No vision impairment	654.00	4.69	0.65			
Some vision impairment	123.00	4.64	0.72			
Total	77.00	4.68	0.66			
Non-driver	26.00	4.74	0.66			
Driver	747.00	4.68	0.66			
Total	773.00	4.68	0.66			
Yes caregiver	118.00	4.67	0.77			
No caregiver	646.00	4.68	0.64			
Total	764.00	4.68	0.66			

Table 1.3. 75+ Age Group. Weighted Neighbourhood Trust means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Trust	751.00	3.52	0.46	39.00	1.67	5.00
Male	381.00	3.46	0.45			
Female	370.00	3.59	0.46			
Total	751.00	3.52	0.46			
NZ European	639.00	3.52	0.46			
Maori	58.00	3.56	0.45			
Pasifika	7.00	3.49	0.85			
Asian	2.00	3.46	0.21			
Other	35.00	3.47	0.37			
Total	742.00	3.52	0.46			
No hearing impairment	600.00	3.54	0.43			
Some hearing impairment	148.00	3.45	0.54			
Total	748.00	3.52	0.46			
No vision impairment	634.00	3.53	0.44			
Some vision impairment	117.00	3.47	0.54			
Total	751.00	3.52	0.46			
Non-driver	26.00	3.39	0.42			
Driver	723.00	3.52	0.46			
Total	749.00	3.52	0.46			
Yes caregiver	112.00	3.55	0.50			
No caregiver	627.00	3.51	0.45			
Total	740.00	3.51	0.46			

Table 1.4. 75+ Age Group. Weighted Neighbourhood Accessibility means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Accessibility	766.00	4.63	0.62	24.00	1.00	5.00
Male	382.00	4.69	0.54			
Female	384.00	4.58	0.68			
Total	766.00	4.63	0.62			
NZ European	646.00	4.63	0.62			
Maori	59.00	4.64	0.67			
Pasifika	7.00	5.00	0.00			
Asian	2.00	5.00	0.00			
Other	37.00	4.72	0.57			
Total	752.00	4.64	0.61			
No hearing impairment	613.00	4.65	0.61			
Some hearing impairment	151.00	4.55	0.62			
Total	764.00	4.63	0.62			
No vision impairment	613.00	4.66	0.61			
Some vision impairment	151.00	4.55	0.64			
Total	764.00	4.63	0.62			
Non-driver	119.00	4.33	0.84			
Driver	647.00	4.69	0.55			
Total	766.00	4.63	0.62			
Yes caregiver	117.00	4.62	0.56			
No caregiver	637.00	4.63	0.62			
Total	754.00	4.63	0.61			

Table 1.5. 75+ Age Group. Unweighted Housing Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Housing Satisfaction	597.0	32.4	3.1	87.0	12.0	40.0
Male	290.0	32.2	2.8			
Female	307.0	32.6	3.4			
Total	597.0	32.4	3.1			
NZ European	399.0	32.5	2.9			
Maori	160.0	31.9	3.8			
Pasifika	5.0	33.6	1.7			
Asian	1.0	32.0				
Other	21.0	33.0	1.8			
Total	586.0	32.4	3.1			
No hearing impairment	479.0	32.4	3.0			
Some hearing impairment	114.0	32.3	3.2			
Total	593.0	32.4	3.1			
No vision impairment	506.0	32.4	2.8			
Some vision impairment	90.0	32.2	4.3			
Total	596.0	32.4	3.1			
Non-driver	19.0	31.6	4.2			
Driver	575.0	32.4	3.1			
Total	594.0	32.4	3.1			
Yes caregiver	97.0	32.3	3.3			
No caregiver	490.0	32.4	3.1			
Total	587.0	32.4	3.1			

Table 1.6. 75+ Age Group. Unweighted Neighbourhood Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Satisfaction	672.0	4.7	0.7	12.0	1.0	5.0
Male	318.0	4.7	0.6			
Female	354.0	4.7	0.7			
Total	672.0	4.7	0.7			
NZ European	444.0	4.7	0.7			
Maori	185.0	4.6	0.7			
Pasifika	6.0	4.7	0.8			
Asian	2.0	5.0	0.0			
Other	23.0	4.8	0.4			
Total	660.0	4.7	0.7			
No hearing impairment	536.0	4.7	0.6			
Some hearing impairment	130.0	4.5	0.8			
Total	666.0	4.7	0.7			
No vision impairment	565.0	4.7	0.6			
Some vision impairment	106.0	4.6	0.8			
Total	671.0	4.7	0.7			
Non-driver	25.0	4.6	0.8			
Driver	642.0	4.7	0.7			
Total	667.0	4.7	0.7			
Yes caregiver	111.0	4.7	0.8			
No caregiver	546.0	4.7	0.6			
Total	657.0	4.7	0.7			

Table 1.7. 75+ Age Group. Unweighted Neighbourhood Trust means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Trust	647.0	3.6	0.5	37.0	1.7	5.0
Male	312.0	3.5	0.4			
Female	335.0	3.6	0.5			
Total	647.0	3.6	0.5			
NZ European	433.0	3.5	0.5			
Maori	176.0	3.6	0.5			
Pasifika	6.0	3.6	0.7			
Asian	2.0	3.5	0.2			
Other	21.0	3.5	0.4			
Total	638.0	3.6	0.5			
No hearing impairment	520.0	3.6	0.4			
Some hearing impairment	123.0	3.5	0.5			
Total	643.0	3.6	0.5			
No vision impairment	547.0	3.6	0.5			
Some vision impairment	99.0	3.6	0.5			
Total	646.0	3.6	0.5			
Non-driver	25.0	3.5	0.5			
Driver	618.0	3.6	0.5			
Total	643.0	3.6	0.5			
Yes caregiver	103.0	3.6	0.5			
No caregiver	531.0	3.5	0.5			
Total	634.0	3.6	0.5			

Table 1.8. 75+ Age Group. Unweighted Neighbourhood Accessibility means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Accessibility	660.0	4.6	0.7	24.0	1.0	5.0
Male	317.0	4.6	0.6			
Female	343.0	4.6	0.7			
Total	660.0	4.6	0.7			
NZ European	437.0	4.6	0.7			
Maori	180.0	4.6	0.8			
Pasifika	6.0	5.0	0.0			
Asian	2.0	5.0	0.0			
Other	23.0	4.8	0.5			
Total	648.0	4.6	0.7			
No hearing impairment	528.0	4.6	0.7			
Some hearing impairment	128.0	4.5	0.7			
Total	656.0	4.6	0.7			
No vision impairment	557.0	4.7	0.6			
Some vision impairment	102.0	4.4	0.9			
Total	659.0	4.6	0.7			
Non-driver	24.0	4.7	0.6			
Driver	631.0	4.6	0.7			
Total	655.0	4.6	0.7			
Yes caregiver	108.0	4.6	0.6			
No caregiver	538.0	4.6	0.7			
Total	646.0	4.6	0.7			

Table 1.9. 65-74 Age Group. Weighted Housing Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Housing Satisfaction	1316.00	31.41	3.12	85.00	14.00	40.00
Male	653.00	31.33	2.89			
Female	662.00	31.48	3.32			
Total	1316.00	31.41	3.12			
NZ European	1093.00	31.53	2.99			
Maori	127.00	31.52	3.56			
Pasifika	13.00	29.41	4.95			
Asian	12.00	30.36	4.91			
Other	66.00	30.62	3.32			
Total	1311.00	31.41	3.12			
No hearing impairment	1131.00	31.47	2.96			
Some hearing impairment	177.00	31.00	3.96			
Total	1308.00	31.41	3.12			
No vision impairment	1178.00	31.49	2.90			
Some vision impairment	132.00	30.73	4.55			
Total	1310.00	31.41	3.12			
Non-driver	20.00	29.99	4.31			
Driver	1294.00	31.43	3.09			
Total	1313.00	31.41	3.11			
Yes caregiver	205.00	31.69	3.37			
No caregiver	1077.00	31.30	3.04			
Total	1283.00	31.36	3.10			

Table 1.10. 64-75 Age Group. Weighted Neighbourhood Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Satisfaction	1390.00	4.58	0.78	11.00	1.00	5.00
Male	676.00	4.57	0.77			
Female	714.00	4.58	0.78			
Total	1390.00	4.58	0.78			
NZ European	1155.00	4.61	0.72			
Maori	134.00	4.47	0.87			
Pasifika	13.00	4.65	0.79			
Asian	12.00	4.21	1.23			
Other	69.00	4.28	1.15			
Total	1383.00	4.58	0.77			
No hearing impairment	1193.00	4.60	0.73			
Some hearing impairment	190.00	4.43	0.99			
Total	1382.00	4.58	0.78			
No vision impairment	1241.00	4.61	0.73			
Some vision impairment	141.00	4.31	1.05			
Total	1382.00	4.58	0.77			
Non-driver	22.00	4.62	0.66			
Driver	1366.00	4.58	0.78			
Total	1387.00	4.58	0.78			
Yes caregiver	214.00	4.63	0.67			
No caregiver	1139.00	4.57	0.79			
Total	1353.00	4.58	0.78			

Table 1.11. 64-75 Age Group. Weighted Neighbourhood Trust means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Trust	1357.00	3.48	0.47	43.00	1.00	5.00
Male	662.00	3.47	0.44			
Female	695.00	3.49	0.49			
Total	1357.00	3.48	0.47			
NZ European	1133.00	3.48	0.47			
Maori	129.00	3.53	0.45			
Pasifika	13.00	3.44	0.34			
Asian	12.00	3.19	0.32			
Other	65.00	3.37	0.46			
Total	1352.00	3.47	0.46			
No hearing impairment	1172.00	3.48	0.47			
Some hearing impairment	180.00	3.42	0.50			
Total	1352.00	3.48	0.47			
No vision impairment	1216.00	3.48	0.45			
Some vision impairment	137.00	3.50	0.58			
Total	1353.00	3.48	0.46			
Non-driver	22.00	3.66	0.51			
Driver	1334.00	3.47	0.46			
Total	1356.00	3.47	0.46			
Yes caregiver	211.00	3.43	0.52			
No caregiver	1112.00	3.48	0.45			
Total	1323.00	3.47	0.46			

Table 1.12. 65-74 Age Group. Weighted Neighbourhood Accessibility means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Accessibility	1374.00	4.62	0.64	26.00	1.00	5.00
Male	670.00	4.62	0.36			
Female	705.00	4.62	0.65			
Total	1374.00	4.62	0.64			
NZ European	1144.00	4.63	0.63			
Maori	133.00	4.57	0.66			
Pasifika	12.00	4.38	0.89			
Asian	12.00	4.45	0.80			
Other	69.00	4.56	0.61			
Total	1369.00	4.62	0.64			
No hearing impairment	1178.00	4.66	0.62			
Some hearing impairment	189.00	4.45	0.67			
Total	1367.00	4.62	0.63			
No vision impairment	1127.00	4.63	0.63			
Some vision impairment	141.00	4.54	0.69			
Total	1368.00	4.62	0.63			
Non-driver	21.00	4.32	0.97			
Driver	1351.00	4.63	0.63			
Total	1372.00	4.62	0.63			
Yes caregiver	212.00	4.65	0.61			
No caregiver	1128.00	4.61	0.65			
Total	1340.00	4.61	0.64			

Table 1.13. 65-74 Age Group. Unweighted Housing Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Housing Satisfaction	1441.00	31.39	3.28	93.00	14.00	40.00
Male	656.00	31.23	3.11			
Female	784.00	31.52	3.42			
Total	1441.00	31.39	3.28			
NZ European	953.00	31.55	3.13			
Maori	398.00	31.15	3.53			
Pasifika	12.00	30.83	5.17			
Asian	10.00	30.50	4.92			
Other	62.00	30.76	3.21			
Total	1435.00	31.39	3.28			
No hearing impairment	1234.00	31.42	3.19			
Some hearing impairment	187.00	31.11	3.89			
Total	1432.00	31.38	3.29			
No vision impairment	1271.00	31.45	3.07			
Some vision impairment	160.00	30.99	4.57			
Total	1431.00	31.39	3.27			
Non-driver	27.00	30.52	4.84			
Driver	1411.00	31.41	3.24			
Total	1438.00	31.40	3.28			
Yes caregiver	239.00	31.67	3.54			
No caregiver	1172.00	31.29	3.19			
Total	1411.00	31.36	3.26			

Table 1.14. 65-74 Age Group. Unweighted Neighbourhood Satisfaction means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Satisfaction	1519.00	4.58	0.78	15.00	1.00	5.00
Male	678.00	4.56	0.77			
Female	840.00	4.59	0.78			
Total	1519.00	4.58	0.78			
NZ European	1003.00	4.61	0.73			
Maori	423.00	4.54	0.81			
Pasifika	12.00	4.67	0.78			
Asian	10.00	4.10	1.37			
Other	64.00	4.36	1.00			
Total	1512.00	4.58	0.78			
No hearing impairment	1312.00	4.60	0.74			
Some hearing impairment	198.00	4.41	0.96			
Total	1510.00	4.58	0.78			
No vision impairment	1337.00	4.61	0.72			
Some vision impairment	170.00	4.31	1.05			
Total	1509.00	4.58	0.77			
Non-driver	31.00	4.61	0.67			
Driver	1485.00	4.58	0.78			
Total	1516.00	4.58	0.78			
Yes caregiver	249.00	4.63	0.67			
No caregiver	1234.00	4.57	0.80			
Total	1483.00	4.58	0.78			

Table 1.15. 65-74 Age Group. Unweighted Neighbourhood Trust means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Trust	1488.00	3.48	0.47	46.00	1.00	5.00
Male	666.00	3.46	0.45			
Female	821.00	3.50	0.50			
Total	1488.00	3.48	0.47			
NZ European	984.00	3.47	0.48			
Maori	414.00	3.52	0.47			
Pasifika	12.00	3.44	0.32			
Asian	10.00	3.23	0.36			
Other	61.00	3.38	0.46			
Total	1481.00	3.48	0.48			
No hearing impairment	1289.00	3.48	0.47			
Some hearing impairment	191.00	3.47	0.50			
Total	1480.00	3.48	0.47			
No vision impairment	1313.00	3.48	0.46			
Some vision impairment	165.00	3.53	0.58			
Total	1478.00	3.48	0.47			
Non-driver	31.00	3.53	0.49			
Driver	1455.00	3.48	0.47			
Total	1486.00	3.49	0.47			
Yes caregiver	247.00	3.47	0.51			
No caregiver	1208.00	3.48	0.46			
Total	1455.00	3.48	0.47			

Table 1.16. 65-74 Age Group. Unweighted Neighbourhood Accessibility means and standard deviations

Variable	N	Mean	SD	Missing	Min	Max
Neighbourhood Accessibility	1503.00	4.61	0.66	31.00	1.00	5.00
Male	673.00	4.60	0.64			
Female	829.00	4.61	0.68			
Total	1503.00	4.61	0.66			
NZ European	994.00	4.62	0.65			
Maori	417.00	4.57	0.69			
Pasifika	11.00	4.45	0.98			
Asian	10.00	4.53	0.76			
Other	64.00	4.55	0.61			
Total	1496.00	4.61	0.66			
No hearing impairment	1297.00	4.63	0.64			
Some hearing impairment	197.00	4.61	0.72			
Total	1494.00	4.61	0.66			
No vision impairment	1323.00	4.63	0.63			
Some vision impairment	169.00	4.47	0.81			
Total	1492.00	4.61	0.66			
Non-driver	30.00	4.49	0.83			
Driver	1470.00	4.61	0.65			
Total	1500.00	4.61	0.66			
Yes caregiver	249.00	4.65	0.61			
No caregiver	1221.00	4.59	0.67			
Total	1470.00	4.60	0.66			

Appendix Two

Distributions of housing descriptive variables by Age Group and by Gender, Ethnicity, Caregiving status, Hearing Impairment, Vision Impairment and Driving Status (Weighted and Unweighted).

Table 2.1. 75+ Age Group. Weighted demographic data for Housing Type.

			House or townhouse	Townhouse unit or apartment	Retirement village unit or apartment	Moveable dwelling (e.g. caravan)	Rest home or care hospital	Other	Missing	Total
Housing Type	N		594.00	72.00	83.00	4.00	2.00	13.00	23.00	790.00
	%		75.20	9.10	10.60	0.50	0.20	1.70	2.90	100.00
Gender	Woman	N	297.00	39.00	46.00	3.00	0.00	7.00		392.00
		%	75.80	9.90	11.70	0.80	0.00	1.80		100.00
	Man	N	296.00	33.00	37.00	0.00	2.00	6.00		374.00
		%	79.10	8.80	9.90	0.00	0.50	1.60		100.00
Total	N	593.00	72.00	8.00	3.00	2.00	13.00		766.00	
	%	77.40	9.40	10.80	0.40	0.30	1.70		100.00	
Ethnicity	NZE	N	504.00	58.00	74.00	3.00	2.00	7.00		648.00
		%	77.80	9.00	11.40	0.50	0.30	1.10		100.00
	Māori	N	48.00	6.00	5.00	0.00	0.00	2.00		61.00
		%	78.70	9.80	8.20	0.00	0.00	3.30		100.00
	Pasifika	N	7.00	0.00	0.00	0.00	0.00	0.00		7.00
		%	100.00	0.00	0.00	0.00	0.00	0.00		100.00
	Asian	N	0.00	0.00	1.00	0.00	0.00	1.00		2.00
		%	0.00	0.00	50.00	0.00	0.00	50.00		100.00
	Other	N	27.00	4.00	3.00	0.00	0.00	3.00		37.00
		%	73.00	10.80	8.10	0.00	0.00	8.10		100.00
	Total	N	586.00	68.00	83.00	3.00	2.00	13.00		755.00
		%	77.60	9.00	11.00	0.40	0.30	1.70		100.00
Caregiving	Yes	N	90.00	8.00	18.00	0.00	0.00	2.00		118.00
		%	76.30	6.80	15.30	0.00	0.00	1.70		100.00
	No	N	500.00	60.00	66.00	2.00	2.00	10.00		640.00
		%	78.10	9.40	10.30	0.30	0.30	1.60		100.00

Hearing Impairment	Total	N	590.00	68.00	84.00	2.00	2.00	12.00	758.00
		%	77.80	9.00	11.10	0.30	0.30	1.60	100.00
	No	N	467.00	63.00	72.00	4.00	2.00	8.00	616.00
		%	75.80	10.20	11.70	0.60	0.30	1.30	100.00
	Some	N	123.00	8.00	11.00	0.00	0.00	5.00	147.00
		%	83.70	5.40	7.50	0.00	0.00	3.40	100.00
Vision Impairment	Total	N	590.00	71.00	83.00	4.00	2.00	13.00	763.00
		%	77.30	9.30	10.90	0.50	0.30	1.70	100.00
	No	N	495.00	65.00	71.00	4.00	0.00	10.00	645.00
		%	76.70	10.10	11.00	0.60	0.00	1.60	100.00
	Some	N	99.00	6.00	12.00	0.00	2.00	3.00	122.00
		%	81.10	4.90	9.80	0.00	1.60	2.50	100.00
Driving Status	Total	N	594.00	71.00	83.00	4.00	2.00	13.00	767.00
		%	77.40	9.30	10.80	0.50	0.30	1.70	100.00
	Non Driver	N	24.00	1.00	1.00	0.00	0.00	0.00	26.00
		%	92.30	3.80	3.80	0.00	0.00	0.00	100.00
	Driver	N	567.00	71.00	82.00	4.00	2.00	13.00	739.00
		%	76.70	9.60	11.10	0.50	0.30	1.80	100.00
Total	N	591.00	72.00	83.00	4.00	2.00	13.00	765.00	
	%	77.30	9.40	10.80	0.50	0.30	1.70	100.00	

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.2. 75+ Age Group. Weighted demographic data for Housing Tenure.

			Owned by self or partner with mortgage	Owned by self or partner without mortgage	Owned by family/ whānau	Owned by family/ whānau trust	Private rental	State council or kaumatua housing	Licence to occupy	Other	Missing	Total	
Tenure	N		54.00	507.00	23.00	73.00	20.00	13.00	71.00	13.00	17.00	790.00	
	%		6.80	64.20	2.90	9.30	2.60	1.60	9.00	1.60	2.10	100.00	
Gender	Woman	N	26.00	244.00	14.00	37.00	12.00	9.00	38.00	9.00		389.00	
		%	6.70	62.70	3.60	9.50	3.10	2.30	9.80	2.30		10.00	
	Man	N	27.00	263.00	8.00	36.00	8.00	4.00	33.00	4.00		383.00	
		%	7.00	68.70	2.10	9.40	2.10	1.00	8.30	1.00		100.00	
Total	N	53.00	507.00	22.00	73.00	20.00	13.00	71.00	13.00			772.00	
	%	6.90	65.70	2.80	9.50	2.60	1.70	9.20	1.70			100.00	
Ethnicity	NZE	N	42.00	437.00	12.00	61.00	13.00	10.00	66.00	12.00		653.00	
		%	6.40	66.90	1.80	9.30	2.00	1.50	10.10	1.80		100.00	
	Māori	N	3.00	37.00	4.00	6.00	6.00	3.00	1.00	0.00			60.00
		%	5.00	61.70	6.70	10.00	10.00	5.00	1.70	0.00			100.00
	Pasifika	N	2.00	4.00	1.00	0.00	0.00	0.00	0.00	0.00			7.00
		%	28.60	57.10	14.30	0.00	0.00	0.00	0.00	0.00			100.00
	Asian	N	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00		2.00
		%	0.00	0.00	50.00	0.00	0.00	0.00	50.00	0.00			100.00
	Other	N	3.00	20.00	4.00	4.00	2.00	0.00	3.00	0.00			36.00
		%	8.30	55.60	11.10	11.10	5.60	0.00	8.30	0.00			100.00
	Total	N	50.00	498.00	22.00	71.00	21.00	13.00	71.00	12.00			758.00
		%	6.60	65.70	2.90	9.40	2.80	1.70	9.40	1.60			100.00
	Caregiving	Yes	N	13.00	75.00	4.00	6.00	2.00	2.00	15.00	0.00		117.00
			%	11.10	64.10	3.40	5.10	1.70	1.70	12.80	0.00		100.00
No		N	40.00	427.00	17.00	64.00	19.00	10.00	56.00	10.00			643.00
		%	6.20	66.40	2.60	10.00	3.00	1.60	8.70	1.60			100.00
Total	N	53.00	502.00	21.00	70.00	21.00	12.00	71.00	10.00			760.00	
	%	7.00	66.10	2.80	9.20	2.80	1.60	9.30	1.30			100.00	
Hearing Impairment	No	N	33.00	398.00	18.00	62.00	16.00	12.00	64.00	12.00		615.00	
		%	5.40	64.70	2.90	10.10	2.60	2.00	10.40	2.00			100.00

Vision Impairment	Some	N	20.00	105.00	5.00	11.00	5.00	1.00	7.00	0.00	154.00	
		%	13.00	68.20	3.20	7.10	3.20	0.60	4.50	0.00	100.00	
	Total	N	53.00	503.00	23.00	73.00	21.00	13.00	71.00	12.00	769.00	
		%	6.90	65.40	3.00	9.50	2.70	1.70	9.20	1.60	100.00	
	No	N	37.00	439.00	14.00	61.00	17.00	12.00	60.00	10.00	650.00	
		%	5.70	67.50	2.20	9.40	2.60	1.80	9.20	1.50	100.00	
	Some	N	16.00	68.00	9.00	12.00	3.00	1.00	11.00	3.00	123.00	
		%	13.00	55.30	7.30	9.80	2.40	0.80	8.90	2.40	100.00	
	Total	N	53.00	507.00	23.00	73.00	20.00	13.00	71.00	13.00	773.00	
		%	6.90	65.60	3.00	9.40	2.60	1.70	9.20	1.70	100.00	
	Driving Status	Non Driver	N	3.00	16.00	0.00	3.00	3.00	0.00	1.00	0.00	26.00
			%	11.50	61.50	0.00	11.50	11.50	0.00	3.80	0.00	100.00
Driver		N	51.00	489.00	23.00	71.00	17.00	12.00	70.00	12.00	745.00	
		%	6.80	65.60	3.10	9.50	2.30	1.60	9.40	1.60	100.00	
Total		N	54.00	505.00	23.00	74.00	20.00	12.00	71.00	12.00	771.00	
		%	7.00	65.50	3.00	9.60	2.60	1.60	9.20	1.60	100.00	

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.3. 75+ Age Group. Weighted demographic data for Housing Condition.

		I am able to keep my house warm						Does your residence have a problem with dampness or mould					My house is difficult for me to clean						
		Def. not	Blank	Neutral	Blank	Def. yes	Total	No	Minor prob.	Moderate prob.	Major prob.	Total	Def. not	Blank	Neutral	Blank	Def. yes	Total	
Housing condition	N	8.00	8.00	36.00	95.00	625.00	790.00	666.00	98.00	12.00	4.00	790.00	416.00	102.00	135.00	68.00	39.00	790.00	
	%	1.10	1.10	4.50	12.00	79.10	100.00	84.30	12.30	1.50	0.50	100.00	52.60	13.00	17.10	8.60	4.90	100.00	
Gender	Woman	N	4.00	6.00	23.00	40.00	318.00	391.00	338.00	51.00	5.00	4.00	398.00	202.00	41.00	77.00	40.00	21.00	381.00
	%	1.00	1.50	5.90	10.20	81.30	100.00	84.90	12.80	1.30	1.00	100.00	53.00	10.80	20.20	10.50	5.50	100.00	
Gender	Man	N	4.00	2.00	13.00	5.00	307.00	381.00	328.00	47.00	7.00	0.00	382.00	214.00	61.00	59.00	8.00	18.00	380.00
	%	1.00	0.50	3.40	14.40	80.60	100.00	85.90	12.30	7.00	0.00	100.00	56.30	16.10	15.50	7.40	4.70	100.00	
Gender	Total	N	8.00	8.00	36.00	95.00	625.00	772.00	666.00	98.00	12.00	4.00	780.00	416.00	102.00	136.00	68.00	39.00	761.00
	%	1.00	1.00	4.70	12.30	81.00	100.00	85.40	12.60	1.50	0.50	100.00	54.70	13.40	17.90	8.90	5.10	100.00	
Ethnicity	NZE	N	7.00	8.00	26.00	76.00	536.00	653.00	570.00	75.00	8.00	4.00	657.00	359.00	88.00	101.00	61.00	31.00	640.00
	%	1.10	1.20	4.00	11.60	82.10	100.00	86.80	11.40	1.20	0.60	100.00	56.10	13.80	15.80	9.50	4.80	100.00	
Ethnicity	Māori	N	1.00	1.00	6.00	7.00	45.00	60.00	47.00	11.00	2.00	0.00	60.00	24.00	6.00	21.00	5.00	3.00	59.00
	%	1.70	1.70	10.00	11.70	75.00	100.00	78.30	18.30	3.30	0.00	100.00	40.70	10.20	35.60	8.50	5.10	100.00	
Ethnicity	Pasifika	N	0.00	0.00	0.00	0.00	7.00	7.00	6.00	1.00	0.00	0.00	7.00	7.00	0.00	0.00	0.00	0.00	7.00
	%	0.00	0.00	0.00	0.00	100.00	100.00	85.70	14.30	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00	100.00	
Ethnicity	Asian	N	0.00	0.00	0.00	0.00	2.00	100.00	2.00	0.00	0.00	2.00	1.00	0.00	0.00	0.00	1.00	2.00	
	%	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	50.00	0.00	0.00	0.00	50.00	100.00	
Ethnicity	Other	N	0.00	0.00	2.00	88.00	27.00	37.00	28.00	7.00	2.00	0.00	37.00	20.00	6.00	9.00	0.00	2.00	37.00
	%	0.00	0.00	5.40	21.60	73.00	100.00	75.70	18.90	5.40	0.00	100.00	54.10	16.20	24.30	0.00	5.40	100.00	
Ethnicity	Total	N	8.00	9.00	34.00	91.00	617.00	759.00	653.00	94.00	12.00	4.00	763.00	411.00	100.00	131.00	66.00	37.00	745.00
	%	1.10	1.20	4.50	12.00	81.30	100.00	85.60	12.30	1.60	0.50	100.00	55.20	13.40	17.60	8.90	5.00	100.00	
Caregiving	Yes	N	2.00	2.00	2.00	10.00	101.00	117.00	100.00	13.00	1.00	2.00	116.00	55.00	11.00	28.00	13.00	9.00	116.00
	%	1.70	1.70	1.70	8.50	86.30	100.00	86.20	11.20	0.90	1.70	100.00	47.40	9.50	24.10	11.20	7.80	100.00	
Caregiving	No	N	6.00	6.00	33.00	84.00	513.00	642.00	557.00	80.00	11.00	2.00	650.00	354.00	90.00	107.00	55.00	26.00	632.00
	%	0.90	0.90	5.10	13.10	79.90	100.00	85.70	12.30	1.70	0.30	100.00	56.00	14.20	16.90	8.70	4.10	100.00	
Caregiving	Total	N	8.00	8.00	35.00	94.00	614.00	759.00	657.00	93.00	12.00	4.00	766.00	409.00	101.00	135.00	68.00	35.00	748.00
	%	1.10	1.10	4.60	12.40	80.90	100.00	85.80	12.10	1.60	0.50	100.00	54.70	13.50	18.00	9.10	4.70	100.00	

Hearing Impairment	No	N	3.00	6.00	28.00	69.00	511.00	617.00	537.00	74.00	7.00	2.00	620.00	339.00	88.00	95.00	63.00	27.00	612.00
		%	0.50	1.00	4.50	11.20	82.80	100.00	86.60	11.90	1.10	0.30	100.00	55.40	14.40	15.50	10.30	4.40	100.00
	Some	N	6.00	2.00	8.00	26.00	112.00	154.00	125.00	23.00	5.00	2.00	155.00	75.00	15.00	40.00	5.00	12.00	147.00
		%	3.90	1.30	5.20	16.90	72.70	100.00	80.60	17.80	3.20	1.30	100.00	51.00	10.20	27.20	3.40	8.20	100.00
	Total	N	9.00	8.00	36.00	95.00	623.00	771.00	662.00	97.00	12.00	4.00	775.00	414.00	103.00	135.00	68.00	39.00	759.00
		%	1.20	1.00	4.70	12.30	80.80	100.00	85.40	12.50	1.50	0.50	100.00	54.50	13.60	17.80	9.00	5.10	100.00
Vision Impairment	No	N	1.00	6.00	29.00	76.00	541.00	653.00	570.00	76.00	8.00	2.00	656.00	363.00	87.00	104.00	58.00	30.00	642.00
		%	0.20	0.90	4.40	11.60	82.80	100.00	86.90	11.60	1.20	0.30	100.00	56.50	13.60	16.20	9.00	4.70	100.00
	Some	N	8.00	3.00	7.00	19.00	84.00	121.00	96.00	21.00	4.00	2.00	123.00	53.00	15.00	31.00	11.00	9.00	119.00
		%	6.60	2.50	5.80	15.70	69.40	100.00	78.00	17.10	3.30	1.60	100.00	44.50	12.60	26.10	9.20	7.60	100.00
	Total	N	9.00	9.00	36.00	95.00	625.00	774.00	666.00	97.00	12.00	4.00	779.00	416.00	102.00	135.00	69.00	39.00	761.00
		%	1.20	1.20	4.70	12.30	80.70	100.00	85.50	12.50	1.50	0.50	100.00	54.70	13.40	17.70	9.10	5.10	100.00
Driving Status	Non Driver	N	8.00	8.00	31.00	93.00	603.00	743.00	21.00	3.00	0.00	2.00	26.00	9.00	5.00	10.00	1.00	0.00	25.00
		%	1.10	1.10	4.20	12.50	81.20	100.00	80.80	11.50	0.00	7.70	100.00	36.00	20.00	40.00	4.00	0.00	100.00
	Driver	N	0.00	0.00	5.00	0.00	21.00	26.00	642.00	94.00	11.00	2.00	749.00	405.00	97.00	124.00	67.00	39.00	732.00
		%	0.00	0.00	19.20	0.00	80.80	100.00	85.70	12.60	1.50	0.30	100.00	55.30	13.30	16.90	9.20	5.30	100.00
	Total	N	8.00	8.00	36.00	93.00	624.00	769.00	663.00	97.00	11.00	4.00	775.00	414.00	102.00	134.00	68.00	39.00	757.00
		%	1.00	1.00	4.70	12.10	81.10	100.00	85.50	12.50	1.40	0.50	100.00	54.70	13.50	17.70	9.00	5.20	100.00

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Missing data: I am able to keep my house warm (n=18,2.2%); does your residence have a problem with dampness or mould (n=30,3.7%), my house is difficult for me to clean (n=11,1.4%)

Hearing Impairment	No	N	209.00	382.00	8.00	42.00	8.00	4.00	15.00	8.00	9.00	16.00	
		%	33.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	58.00	80.00		19.00	2.00		23.00				4.00
		%	37.70	100.00		100.00	100.00		100.00				100.00
	Total	N	267.00	462.00	8.00	61.00	10.00	4.00	38.00	8.00	9.00		20.00
		%	24.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Vision Impairment	No	N	225.00	389.00	5.00	46.00	8.00	2.00	31.00	6.00	7.00	14.00	
		%	33.90	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	45.00	75.00	2.00	15.00	3.00	2.00	7.00	2.00	2.00	6.00	
		%	35.70	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	700.00	100.00
	Total	N	270.00	646.00	7.00	61.00	11.00	4.00	38.00	8.00	9.00		20.00
		%	34.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Driving Status	Non Driver	N	12.00	10.00		4.00				3.00		1.00	
		%	46.20	100.00		100.00				100.00		100.00	
	Driver	N	258.00	453.00	8.00	56.00	10.00	4.00	38.00	5.00	9.00	19.00	
		%	33.90	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	270.00	463.00	8.00	60.00	10.00	4.00	38.00	8.00	9.00		20.00
		%	34.30	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.5. 75+ Age Group. Unweighted demographic data for Housing Type

			House or townhouse	Townhouse unit or apartment	Retirement village unit or apartment	Moveable dwelling (e.g. caravan)	Rest home or care hospital	Other	Missing	Total
Housing Type	N		503.00	69.00	72.00	4.00	2.00	17.00	17.00	684.00
	%		73.50	10.10	10.50	0.60	0.30	2.50	2.50	100.00
Gender	Woman	N	258.00	38.00	45.00	2.00	0.00	9.00		352.00
		%	73.30	10.80	12.80	0.60	0.00	2.60		100.00
	Man	N	245.00	31.00	27.00	2.00	2.00	8.00		315.00
		%	77.80	9.80	8.60	0.60	0.60	2.50		100.00
Total	N	503.00	69.00	72.00	4.00	2.00	17.00		667.00	
	%	75.40	10.30	10.80	0.60	0.30	2.50		100.00	
Ethnicity	NZE	N	342.00	38.00	51.00	2.00	2.00	5.00		440.00
		%	77.70	8.60	11.60	0.50	0.50	1.10		100.00
	Māori	N	132.00	27.00	17.00	1.00	0.00	8.00		185.00
		%	71.40	14.60	9.20	0.50	0.00	4.30		100.00
	Pasifika	N	5.00	0.00	0.00	0.00	0.00	1.00		6.00
		%	83.30	0.00	0.00	0.00	0.00	16.70		100.00
	Asian	N	0.00	0.00	1.00	0.00	0.00	1.00		2.00
		%	0.00	0.00	50.00	0.00	0.00	50.00		100.00
	Other	N	16.00	2.00	2.00	1.00	0.00	2.00		23.00
		%	69.90	8.70	8.70	4.30	0.00	8.70		100.00
Total	N	495.00	67.00	71.00	4.00	2.00	17.00		656.00	
	%	75.50	10.20	10.80	0.60	0.30	2.60		100.00	
Caregiving	Yes	N	84.00	7.00	15.00	1.00	0.00	5.00		112.00
		%	75.00	6.30	13.40	0.90	0.00	4.50		100.00
	No	N	412.00	58.00	56.00	2.00	2.00	11.00		541.00
		%	76.20	10.70	10.40	0.40	0.40	2.00		100.00
Total	N	496.00	65.00	71.00	3.00	2.00	16.00		653.00	
	%	76.00	10.00	10.90	0.50	0.30	2.50		100.00	
Hearing Impairment	No	N	397.00	60.00	63.00	3.00	2.00	10.00		535.00
		%	74.20	11.20	11.80	0.60	0.40	1.90		100.00

		N	101.00	9.00	9.00	1.00	0.00	7.00	127.00
	Some	%	79.50	7.10	7.10	0.80	0.00	5.50	100.00
	Total	N	498.00	69.00	72.00	4.00	2.00	17.00	662.00
		%	75.20	10.40	10.90	0.60	0.30	2.60	100.00
		N	424.00	58.00	62.00	4.00	1.00	12.00	561.00
	No	%	75.60	10.30	11.10	0.70	0.20	2.10	100.00
Vision		N	79.00	10.00	10.00	0.00	1.00	5.00	105.00
Impairment	Some	%	75.20	9.50	9.50	0.00	1.00	4.80	100.00
	Total	N	503.00	68.00	72.00	4.00	2.00	17.00	666.00
		%	75.50	10.20	10.80	0.60	0.30	2.60	100.00
		N	20.00	4.00	1.00	0.00	0.00	0.00	25.00
	Non	%	80.00	16.00	4.00	0.00	0.00	0.00	100.00
Driving	Driver	N	480.00	65.00	71.00	4.00	2.00	16.00	638.00
Status	Driver	%	75.20	10.20	11.10	0.60	0.30	2.50	100.00
	Total	N	500.00	69.00	72.00	4.00	2.00	16.00	663.00
		%	75.40	10.40	10.90	0.60	0.30	2.40	100.00

Notes: Percentages presented for demographic data are from within data for each variable
Caregiving for illness, disability or frailty in the last 12 months

Table 2.6. 75+ Age Group. Unweighted demographic data for Housing Tenure.

			Owned by self or partner with mortgage	Owned by self or partner without mortgage	Owned by family/ whānau	Owned by family/ whānau trust	Private rental	State council or kaumatua housing	Licence to occupy	Other	Missing	Total	
Tenure	N		51.00	411.00	32.00	64.00	26.00	19.00	54.00	10.00	17.00	684.00	
	%		7.50	60.10	4.70	9.40	3.80	2.80	7.90	1.50	2.50	100.00	
Gender	Woman	N	28.00	199.00	22.00	32.00	9.00	14.00	32.00	5.00		349.00	
		%	8.00	57.00	6.30	9.20	2.80	4.00	9.20	1.40		100.00	
	Man	N	23.00	212.00	13.00	32.00	17.00	5.00	22.00	5.00		318.00	
		%	7.20	66.70	3.10	10.10	4.90	1.60	6.90	1.60		100.00	
Total	N	51.00	411.00	32.00	64.00	26.00	19.00	54.00	10.00			667.00	
	%	7.60	61.60	4.80	9.60	3.90	2.80	8.10	1.50			100.00	
Ethnicity	NZE	N	31.00	291.00	9.00	42.00	9.00	7.00	44.00	8.00		441.00	
		%	7.00	66.00	2.00	9.50	2.00	1.60	10.00	1.80		100.00	
	Māori	N	14.00	96.00	19.00	18.00	16.00	11.00	7.00	1.00		182.00	
		%	7.70	52.70	10.40	9.90	8.80	0.00	3.80	0.50		100.00	
	Pasifika	N	1.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	1.00		6.00
		%	16.70	50.00	16.70	0.00	0.00	0.00	0.00	0.00	16.70		100.00
	Asian	N	0.00	0.00	1.00	0.00	0.00	0.00	0.00	1.00	0.00		2.00
		%	0.00	0.00	50.00	0.00	0.00	0.00	50.00	0.00			100.00
	Other	N	3.00	12.00	2.00	3.00	1.00	0.00	2.00	0.00			23.00
		%	13.00	52.20	8.70	13.00	4.30	0.00	8.70	0.00			100.00
	Total	N	49.00	402.00	32.00	63.00	26.00	18.00	54.00	10.00			654.00
		%	7.50	61.50	4.99	9.60	4.00	2.80	8.30	1.50			100.00
	Caregiving	Yes	N	13.00	70.00	4.00	6.00	3.00	1.00	12.00	0.00		109.00
			%	11.90	64.20	3.70	5.50	2.80	0.90	11.00	0.00		100.00
No		N	37.00	334.00	25.00	56.00	22.00	17.00	41.00	9.00		541.00	
		%	6.80	61.70	4.60	10.40	4.10	3.10	7.60	1.70		100.00	
Total		N	50.00	404.00	29.00	62.00	25.00	18.00	53.00	9.00			650.00
		%	7.70	62.20	4.50	9.50	3.80	2.80	8.20	1.40			100.00
Hearing Impairment	No	N	33.00	328.00	26.00	55.00	19.00	15.00	46.00	9.00		531.00	
		%	6.20	61.80	4.90	10.40	3.60	2.80	8.70	1.70		100.00	
	Some	N	17.00	78.00	6.00	9.00	7.00	4.00	8.00	1.00		130.00	

		%	13.10	60.00	4.60	6.90	5.40	3.10	6.20	0.80	100.00
	Total	N	50.00	406.00	32.00	64.00	26.00	19.00	54.00	10.00	661.00
		%	7.60	61.40	4.80	9.70	3.90	2.90	8.20	1.50	100.00
	No	N	35.00	358.00	24.00	53.00	22.00	16.00	47.00	7.00	562.00
		%	6.20	63.70	4.30	9.40	3.90	2.80	8.40	1.20	100.00
Vision Impairment	Some	N	16.00	53.00	8.00	11.00	3.00	3.00	7.00	3.00	104.00
		%	15.40	51.00	7.70	10.60	2.90	2.90	6.70	2.90	100.00
	Total	N	51.00	411.00	32.00	64.00	25.00	19.00	54.00	10.00	666.00
		%	7.70	61.70	4.80	9.60	3.80	2.90	8.10	1.50	100.00
	Non Driver	N	3.00	13.00	0.00	2.00	4.00	1.00	1.00	0.00	24.00
		%	12.50	54.20	0.00	8.30	16.70	4.20	4.20	0.00	100.00
Driving Status	Driver	N	47.00	396.00	31.00	62.00	22.00	18.00	53.00	9.00	638.00
		%	7.40	62.10	4.90	9.70	3.40	2.80	8.30	1.40	100.00
	Total	N	50.00	409.00	31.00	64.00	26.00	19.00	54.00	9.00	662.00
		%	7.60	61.80	4.70	9.70	3.90	2.90	8.20	1.40	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.7. 75+ Age Group. Unweighted demographic data for Housing Condition.

		I am able to keep my house warm						Does your residence have a problem with dampness or mould					My house is difficult for me to clean						
		Def. not	Blank	Neutral	Blank	Def. yes	Total	No	Minor prob.	Moderate prob.	Major prob.	Total	Def. not	Blank	Neutral	Blank	Def. yes	Total	
Housing condition	N	10.00	8.00	32.00	87.00	530.00	684.00	566.00	90.00	13.00	4.00	684.00	359.00	85.00	119.00	58.00	35.00	684.00	
	%	1.50	1.20	4.70	12.70	77.50	100.00	82.70	13.20	1.90	0.60	100.00	52.50	12.40	17.40	8.50	5.10	100.00	
Gender	Woman	N	7.00	5.00	20.00	35.00	283.00	350.00	297.00	48.00	6.00	4.00	355.00	190.00	31.00	66.00	24.00	20.00	341.00
	%	2.00	1.40	5.70	10.00	80.90	100.00	83.70	13.50	1.70	1.10	100.00	55.70	9.10	19.40	7.60	5.90	100.00	
Gender	Man	N	3.00	3.00	12.00	52.00	247.00	317.00	269.00	42.00	7.00	0.00	318.00	169.00	54.00	56.00	34.00	15.00	315.00
	%	0.90	0.90	3.80	16.40	77.90	100.00	84.60	13.20	2.20	0.00	100.00	53.70	17.10	16.80	10.00	4.80	100.00	
Gender	Total	N	10.00	8.00	32.00	87.00	530.00	667.00	566.00	90.00	13.00	4.00	673.00	359.00	85.00	119.00	58.00	35.00	656.00
	%	1.50	1.20	4.80	13.00	79.50	100.00	84.10	13.40	1.90	0.60	100.00	54.70	13.00	18.10	8.80	5.30	100.00	
Ethnicity	NZE	N	4.00	5.00	15.00	54.00	362.00	440.00	389.00	49.00	4.00	2.00	444.00	239.00	59.00	73.00	39.00	23.00	433.00
	%	0.90	1.10	3.40	12.30	82.30	100.00	87.60	11.00	0.90	0.50	100.00	55.20	13.60	16.90	9.00	5.30	100.00	
Ethnicity	Māori	N	6.00	3.00	14.00	26.00	135.00	184.00	143.00	32.00	8.00	2.00	185.00	96.00	20.00	38.00	18.00	8.00	180.00
	%	3.30	1.60	7.60	14.10	73.40	100.00	77.30	17.30	4.30	1.10	100.00	53.30	11.10	21.10	10.00	4.40	100.00	
Ethnicity	Pasifika	N	0.00	0.00	0.00	0.00	6.00	6.00	5.00	1.00	0.00	6.00	5.00	1.00	0.00	0.00	0.00	6.00	
	%	0.00	0.00	0.00	0.00	100.00	100.00	83.30	16.70	0.00	0.00	100.00	83.30	16.70	0.00	0.00	0.00	100.00	
Ethnicity	Asian	N	0.00	0.00	0.00	0.00	2.00	2.00	2.00	0.00	0.00	2.00	1.00	0.00	0.00	0.00	1.00	2.00	
	%	0.00	0.00	0.00	0.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	50.00	0.00	0.00	0.00	50.00	100.00	
Ethnicity	Other	N	0.00	0.00	1.00	4.00	18.00	23.00	18.00	4.00	1.00	0.00	23.00	14.00	4.00	4.00	0.00	1.00	23.00
	%	0.00	0.00	4.30	17.40	78.30	100.00	78.30	17.40	4.30	0.00	100.00	60.90	17.40	17.40	0.00	4.30	100.00	
Ethnicity	Total	N	10.00	8.00	30.00	84.00	523.00	655.00	557.00	86.00	13.00	4.00	660.00	355.00	84.00	115.00	57.00	33.00	644.00
	%	1.50	1.20	4.60	12.80	79.80	100.00	84.40	13.00	2.00	0.60	100.00	55.10	13.00	17.90	8.90	5.10	100.00	
Caregiving	Yes	N	2.00	2.00	6.00	11.00	90.00	111.00	91.00	13.00	5.00	1.00	110.00	55.00	13.00	24.00	11.00	7.00	110.00
	%	1.80	1.80	5.40	9.90	81.10	100.00	82.70	11.80	4.50	0.90	100.00	50.00	11.80	21.80	10.00	6.40	100.00	
Caregiving	No	N	8.00	6.00	26.00	75.00	426.00	541.00	462.00	74.00	8.00	3.00	547.00	296.00	71.00	94.00	47.00	24.00	532.00
	%	1.50	1.10	4.80	13.90	78.70	100.00	84.50	13.50	1.50	0.50	100.00	55.60	13.30	17.70	8.80	4.50	100.00	
Caregiving	Total	N	10.00	8.00	32.00	86.00	516.00	652.00	553.00	87.00	13.00	4.00	657.00	351.00	84.00	118.00	58.00	31.00	642.00
	%	1.50	1.20	4.90	13.20	79.10	100.00	84.20	13.20	2.00	0.60	100.00	54.70	13.10	18.40	9.00	4.80	100.00	

Hearing Impairment	No	N	6.00	6.00	22.00	66.00	431.00	531.00	458.00	69.00	6.00	3.00	536.00	294.00	68.00	89.00	50.00	25.00	526.00
		%	1.10	1.10	4.10	12.40	81.20	100.00	85.40	12.90	1.10	0.60	100.00	55.90	12.90	16.90	9.50	4.80	100.00
	Some	N	4.00	2.00	9.00	21.00	96.00	132.00	104.00	20.00	6.00	1.00	131.00	63.00	17.00	28.00	8.00	10.00	16.00
		%	3.00	1.50	6.80	15.90	72.70	100.00	79.40	15.30	4.60	0.80	100.00	50.00	13.50	22.20	6.30	7.90	100.00
	Total	N	10.00	8.00	31.00	87.00	527.00	663.00	562.00	89.00	12.00	4.00	667.00	357.00	85.00	117.00	58.00	35.00	652.00
		%	1.50	1.20	4.70	13.10	79.50	100.00	84.30	13.30	1.80	0.60	100.00	54.80	13.00	17.90	8.90	5.40	100.00
Vision Impairment	No	N	4.00	8.00	26.00	72.00	455.00	562.00	481.00	75.00	8.00	2.00	566.00	314.00	75.00	92.00	45.00	25.00	551.00
		%	0.70	0.90	4.60	12.80	81.00	100.00	85.00	13.30	1.40	0.40	100.00	57.00	13.60	16.70	8.20	4.50	100.00
	Some	N	6.00	3.00	6.00	15.00	74.00	104.00	84.00	15.00	5.00	2.00	106.00	44.00	10.00	27.00	13.00	10.00	104.00
		%	5.80	2.90	5.80	14.40	71.20	100.00	79.20	14.20	4.70	1.90	100.00	42.30	9.60	26.00	12.50	9.60	100.00
	Total	N	10.00	8.00	32.00	87.00	529.00	666.00	565.00	90.00	13.00	4.00	672.00	358.00	85.00	119.00	58.00	35.00	655.00
		%	1.50	1.20	4.80	13.10	79.40	100.00	84.10	13.40	1.90	0.60	100.00	54.70	13.00	18.20	8.90	5.30	100.00
Driving Status	Non Driver	N	0.00	0.00	6.00	2.00	16.00	24.00	17.00	4.00	2.00	2.00	25.00	9.00	4.00	9.00	1.00	0.00	23.00
		%	0.00	0.00	25.00	8.30	66.70	100.00	68.00	16.00	8.00	8.00	100.00	39.10	17.40	39.10	4.30	0.00	100.00
	Driver	N	10.00	8.00	26.00	84.00	510.00	638.00	544.00	86.00	11.00	2.00	643.00	348.00	80.00	109.00	56.00	35.00	628.00
		%	1.60	1.30	4.10	13.20	79.90	100.00	84.60	13.40	1.70	0.30	100.00	55.40	12.70	17.40	8.90	5.60	100.00
	Total	N	10.00	8.00	32.00	86.00	526.00	662.00	561.00	90.00	13.00	4.00	668.00	357.00	84.00	118.00	57.00	35.00	651.00
		%	1.50	1.20	4.80	13.00	79.50	100.00	84.00	13.50	1.90	0.60	100.00	54.80	12.90	18.10	8.80	5.40	100.00

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Missing data: I am able to keep my house warm (n=17,2.5%); does your residence have a problem with dampness or mould (n=11, 1.6%), my house is difficult for me to clean (n=28,4.1%)

Hearing Impairment	No	N	209.00	382.00	8.00	42.00	8.00	4.00	15.00	8.00	9.00	16.00	
		%	33.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	58.00	80.00		19.00	2.00		23.00				4.00
		%	37.70	100.00		100.00	100.00		100.00				100.00
	Total	N	267.00	462.00	8.00	61.00	10.00	4.00	38.00	8.00	9.00		20.00
		%	34.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Vision Impairment	No	N	225.00	389.00	5.00	46.00	8.00	2.00	31.00	6.00	7.00	14.00	
		%	33.90	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	45.00	75.00	2.00	15.00	3.00	2.00	7.00	2.00	2.00	6.00	
		%	35.70	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	270.00	464.00	7.00	61.00	11.00	4.00	38.00	8.00	9.00		20.00
		%	34.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Driving Status	Non Driver	N	12.00	10.00		4.00			0.00	3.00		1.00	
		%	46.20	100.00		100.00			0.00	100.00		100.00	
	Driver	N	258.00	453.00	8.00	56.00	10.00	4.00	38.00	5.00	9.00		19.00
		%	33.90	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	270.00	463.00	8.00	60.00	10.00	4.00	38.00	8.00	9.00		20.00
		%	34.30	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.9. 65-74 Age Group. Weighted demographic data for Housing Type.

		House or townhouse	Townhouse unit or apartment	Retirement village unit or apartment	Moveable dwelling (e.g. caravan)	Rest home or care hospital	Other	Missing	Total
Housing Type	N	1190.00	114.00	21.00	8.00	5.00	48.00	16.00	1401.00
	%	84.90	8.20	1.50	0.60	0.30	3.40	1.10	100.00
Gender	Woman	N	592.00	75.00	15.00	3.00	2.00	26.00	713.00
		%	83.00	10.50	2.10	0.40	0.30	3.60	100.00
	Man	N	597.00	40.00	6.00	5.00	3.00	22.00	673.00
		%	88.70	5.90	0.90	0.70	0.40	3.30	100.00
Total	N	1189.00	115.00	21.00	8.00	5.00	48.00	1386.00	
	%	85.80	8.30	1.50	0.60	0.40	3.50	100.00	
Ethnicity	NZE	N	990.00	95.00	19.00	6.00	4.00	39.00	1153.00
		%	85.90	8.20	1.60	0.50	0.30	3.40	100.00
	Māori	N	110.00	16.00	0.00	2.00	0.00	3.00	131.00
		%	84.00	12.20	0.00	1.50	0.00	2.30	100.00
	Pasifika	N	13.00	0.00	0.00	0.00	0.00	0.00	13.00
		%	100.00	0.00	0.00	0.00	0.00	0.00	100.00
	Asian	N	10.00	0.00	0.00	0.00	0.00	0.00	10.00
		%	100.00	0.00	0.00	0.00	0.00	0.00	100.00
	Other	N	59.00	3.00	1.00	0.00	0.00	6.00	69.00
		%	85.50	4.30	1.40	0.00	0.00	8.70	100.00
	Total	N	1182.00	114.00	20.00	8.00	4.00	48.00	1376.00
		%	85.90	8.30	1.50	0.60	0.30	3.50	100.00
Caregiving	Yes	N	191.00	10.00	4.00	0.00	0.00	12.00	217.00
		%	88.00	4.60	1.80	0.00	0.00	5.50	100.00
	No	N	971.00	103.00	13.00	8.00	5.00	36.00	1136.00
		%	85.50	9.10	1.10	0.70	0.40	3.20	100.00
	Total	N	1162.00	113.00	17.00	8.00	5.00	48.00	1353.00
		%	85.90	8.40	1.30	0.60	0.40	3.50	100.00

Hearing Impairment	No	N	1029.00	95.00	19.00	8.00	3.00	37.00	1191.00
		%	86.40	8.00	1.60	0.70	0.30	3.10	100.00
	Some	N	153.00	19.00	1.00	0.00	2.00	11.00	186.00
		%	82.30	10.20	0.50	0.00	1.10	5.90	100.00
	Total	N	1182.00	114.00	20.00	8.00	5.00	48.00	1377.00
		%	85.80	8.30	20.00	8.00	5.00	48.00	100.00
Vision Impairment	No	N	1081.00	92.00	16.00	8.00	2.00	41.00	1240.00
		%	87.20	7.40	1.30	0.60	0.20	3.30	100.00
	Some	N	101.00	23.00	5.00	0.00	3.00	7.00	139.00
		%	72.70	16.50	3.60	0.00	2.20	5.00	100.00
	Total	N	1182.00	115.00	21.00	8.00	5.00	48.00	1379.00
		%	85.70	8.30	1.50	0.60	0.40	3.50	100.00
Driving Status	Non Driver	N	19.00	2.00	0.00	0.00	0.00	0.00	21.00
		%	90.50	9.50	0.00	0.00	0.00	0.00	100.00
	Driver	N	1168.00	112.00	21.00	8.00	5.00	48.00	1362.00
		%	85.80	8.20	1.50	0.60	0.40	3.50	100.00
	Total	N	1187.00	114.00	21.00	8.00	5.00	48.00	1383.00
		%	85.80	8.20	1.50	0.60	0.40	3.50	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.10. 65-74 Age Group. Weighted demographic data for Housing Tenure.

		Owned by self or partner with mortgage	Owned by self or partner without mortgage	Owned by family/whānau	Owned by family/ whānau trust	Private rental	State council or kaumatua housing	Licence to occupy	Other	Missing	Total	
Tenure	N	216.00	941.00	21.00	93.00	58.00	24.00	16.00	22.00	11.00	1401.00	
	%	15.40	67.10	1.50	6.70	4.10	1.70	1.20	1.60	0.80	100.00	
Gender	Woman	N	98.00	479.00	13.00	52.00	33.00	12.00	8.00	18.00	713.00	
		%	13.70	67.20	1.80	7.30	4.60	1.70	1.10	2.50	100.00	
	Man	N	117.00	461.00	8.00	41.00	25.00	12.00	8.00	4.00	676.00	
		%	17.30	68.20	1.20	6.10	3.70	1.80	1.20	0.60	100.00	
Total	N	215.00	940.00	21.00	93.00	58.00	24.00	16.00	22.00	1389.00		
	%	15.50	67.70	1.50	6.70	4.20	1.70	1.20	1.60	100.00		
Ethnicity	NZE	N	176.00	807.00	8.00	81.00	40.00	15.00	13.00	17.00	1157.00	
		%	15.20	69.70	0.70	7.00	3.50	1.30	1.10	1.50	100.00	
	Māori	N	22.00	73.00	8.00	7.00	15.00	5.00	0.00	2.00	132.00	
		%	16.70	55.30	6.10	5.30	11.40	3.80	0.00	1.50	100.00	
	Pasifika	N	4.00	6.00	0.00	1.00	0.00	2.00	0.00	0.00	13.00	
		%	30.80	46.20	0.00	7.70	0.00	15.40	0.00	0.00	100.00	
	Asian	N	2.00	5.00	1.00	2.00	1.00	0.00	0.00	0.00	11.00	
		%	18.20	45.50	9.10	18.20	9.10	0.00	0.00	0.00	100.00	
	Other	N	12.00	43.00	3.00	2.00	2.00	2.00	3.00	2.00	69.00	
		%	17.40	62.30	4.30	2.90	2.90	2.90	4.30	2.90	100.00	
	Total	N	216.00	934.00	20.00	93.00	58.00	24.00	16.00	21.00	1382.00	
		%	15.60	67.60	1.40	6.70	4.20	1.70	1.20	1.50	100.00	
	Caregiving	Yes	N	46.00	133.00	1.00	15.00	8.00	4.00	4.00	3.00	214.00
			%	21.50	62.10	0.50	7.00	3.70	1.90	1.90	1.40	100.00
No		N	159.00	789.00	20.00	77.00	49.00	20.00	9.00	17.00	1140.00	
		%	13.90	69.20	1.80	6.80	4.30	1.80	0.80	1.50	100.00	
Total		N	205.00	922.00	21.00	92.00	57.00	24.00	13.00	20.00	1354.00	
		%	15.10	68.10	1.60	6.80	4.20	1.80	1.00	1.50	100.00	

Hearing Impairment	No	N	188.00	815.00	16.00	82.00	47.00	13.00	13.00	19.00	1193.00
		%	15.80	68.30	1.30	6.90	3.90	1.10	1.10	1.60	100.00
	Some	N	27.00	121.00	5.00	11.00	11.00	9.00	3.00	3.00	190.00
		%	14.20	63.70	2.60	5.80	5.80	4.70	1.60	1.60	100.00
	Total	N	215.00	936.00	21.00	93.00	58.00	22.00	16.00	22.00	1383.00
		%	15.50	67.70	1.50	6.70	4.20	1.60	1.20	1.60	100.00
Vision Impairment	No	N	190.00	854.00	16.00	88.00	49.00	18.00	12.00	17.00	1244.00
		%	15.30	68.60	1.30	7.10	3.90	1.40	1.00	1.40	100.00
	Some	N	25.00	80.00	4.00	5.00	9.00	6.00	4.00	5.00	138.00
		%	18.10	58.00	2.90	3.60	6.50	4.30	2.90	3.60	100.00
	Total	N	215.00	934.00	20.00	93.00	58.00	24.00	16.00	22.00	1382.00
		%	15.60	67.60	1.40	6.70	4.20	1.70	1.20	1.60	100.00
Driving Status	NonDrive	N	1.00	13.00	0.00	1.00	3.00	2.00	0.00	0.00	20.00
		%	5.00	65.00	0.00	5.00	15.00	10.00	0.00	0.00	100.00
	Driver	N	214.00	926.00	21.00	92.00	55.00	22.00	16.00	22.00	1368.00
		%	15.60	67.70	1.50	6.70	4.00	1.60	1.20	1.60	100.00
	Total	N	215.00	939.00	21.00	93.00	58.00	24.00	16.00	22.00	1388.00
		%	155.00	67.70	1.50	6.70	4.20	1.70	1.20	1.60	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.11. 65-74 Age Group. Weighted demographic data for Housing Condition.

		I am able to keep my house warm						Does your residence have a problem with dampness or mould					My house is difficult for me to clean						
		Def. not	Blank	Neutral	Blank	Def. yes	Total	No	Minor prob.	Moderate prob.	Major prob.	Total	Def. not	Blank	Neutral	Blank	Def. yes	Total	
Housing condition	N	13.00	26.00	74.00	235.00	1035.00	1401.00	1101.00	241.00	39.00	9.00	1401.00	849.00	212.00	163.00	102.00	56.00	1401.00	
	%	0.90	1.80	5.30	16.80	73.90	100.00	78.60	17.20	2.80	0.70	100.00	60.60	15.10	11.60	7.20	4.00	100.00	
Gender	Woman	N	6.00	16.00	41.00	120.00	525.00	708.00	554.00	129.00	25.00	4.00	712.00	429.00	92.00	84.00	66.00	34.00	705.00
	%	0.80	2.30	5.80	16.90	74.20	100.00	77.80	18.10	3.50	0.60	100.00	60.90	13.00	11.90	9.40	4.80	100.00	
Gender	Man	N	6.00	10.00	33.00	115.00	510.00	674.00	547.00	111.00	14.00	5.00	677.00	419.00	120.00	79.00	36.00	22.00	676.00
	%	0.90	1.50	4.90	17.10	75.70	100.00	80.80	16.40	2.10	0.70	100.00	62.00	17.80	11.70	5.30	3.30	100.00	
Gender	Total	N	12.00	26.00	74.00	235.00	105.00	1382.00	1101.00	240.00	39.00	9.00	1389.00	848.00	212.00	163.00	102.00	56.00	1381.00
	%	0.90	1.90	5.40	17.00	74.90	100.00	79.30	17.30	2.80	6.00	100.00	61.40	15.40	11.80	7.40	4.10	100.00	
Ethnicity	NZE	N	10.00	22.00	53.00	201.00	862.00	1148.00	931.00	193.00	25.00	6.00	1155.00	704.00	179.00	128.00	88.00	48.00	1147.00
	%	0.90	1.90	4.60	17.50	75.10	100.00	80.60	16.70	2.20	0.50	100.00	61.40	15.60	11.20	7.70	4.20	100.00	
Ethnicity	Māori	N	3.00	3.00	8.00	18.00	101.00	133.00	94.00	31.00	9.00	1.00	135.00	80.00	17.00	22.00	8.00	6.00	133.00
	%	2.30	2.30	6.00	13.50	75.90	100.00	69.60	23.00	6.70	0.70	100.00	60.20	12.80	16.50	6.00	4.50	100.00	
Ethnicity	Pasifika	N	0.00	0.00	2.00	0.00	11.00	13.00	10.00	0.00	1.00	2.00	13.00	12.00	0.00	0.00	1.00	0.00	13.00
	%	0.00	0.00	15.40	0.00	84.60	100.00	76.90	0.00	7.70	15.40	100.00	92.30	0.00	0.00	7.70	0.00	100.00	
Ethnicity	Asian	N	0.00	0.00	3.00	1.00	7.00	11.00	8.00	4.00	0.00	0.00	12.00	5.00	3.00	2.00	0.00	1.00	11.00
	%	20.00	0.00	27.30	9.10	63.60	100.00	66.70	33.30	0.00	0.00	100.00	45.50	27.30	18.20	0.00	9.10	100.00	
Ethnicity	Other	N	0.00	0.00	8.00	12.00	50.00	70.00	53.00	13.00	3.00	0.00	69.00	43.00	10.00	10.00	5.00	0.00	68.00
	%	0.00	0.00	11.40	17.10	71.40	100.00	76.80	18.80	4.30	0.00	100.00	63.20	14.70	14.70	7.40	0.00	100.00	
Ethnicity	Total	N	13.00	25.00	74.00	232.00	1031.00	1375.00	1096.00	241.00	38.00	9.00	1384.00	844.00	209.00	162.00	102.00	55.00	1372.00
	%	0.90	1.80	5.40	1.90	75.00	100.00	79.20	17.40	2.70	0.70	100.00	61.50	15.20	11.80	7.40	4.00	100.00	
Caregiving	Yes	N	2.00	9.00	15.00	38.00	158.00	214.00	164.00	41.00	10.00	0.00	215.00	114.00	34.00	27.00	22.00	13.00	210.00
	%	0.90	4.20	5.60	17.80	71.50	100.00	76.30	19.10	4.70	0.00	100.00	54.30	16.20	12.90	10.50	6.20	100.00	
Caregiving	No	N	11.00	16.00	61.00	193.00	850.00	1131.00	910.00	192.00	28.00	9.00	1139.00	715.00	172.00	132.00	74.00	41.00	1134.00
	%	1.00	1.40	5.40	17.10	75.20	100.00	79.90	16.90	2.50	0.80	100.00	63.10	15.20	11.60	6.50	3.60	100.00	
Caregiving	Total	N	13.00	25.00	73.00	231.00	1003.00	1345.00	1074.00	233.00	38.00	9.00	1354.00	829.00	206.00	159.00	96.00	54.00	1344.00
	%	1.00	1.90	5.40	17.20	74.60	100.00	79.30	17.20	2.80	0.70	100.00	61.70	15.30	11.80	7.10	4.00	100.00	

Hearing Impairment	No	N	11.00	17.00	63.00	185.00	908.00	1184.00	968.00	192.00	31.00	4.00	1195.00	761.00	174.00	128.00	71.00	49.00	1183.00
		%	0.90	1.40	5.30	15.60	76.70	100.00	81.00	16.10	2.60	0.30	100.00	64.30	14.70	10.80	6.00	4.10	100.00
	Some	N	1.00	6.00	11.00	50.00	122.00	190.00	130.00	48.00	8.00	4.00	190.00	85.00	35.00	33.00	30.00	7.00	190.00
		%	0.50	3.20	5.80	26.30	64.20	100.00	68.40	25.30	4.20	2.10	100.00	44.70	18.40	17.40	15.80	3.70	100.00
	Total	N	12.00	23.00	74.00	235.00	1030.00	1374.00	1098.00	240.00	39.00	8.00	1385.00	846.00	209.00	161.00	101.00	56.00	1373.00
		%	0.90	1.70	5.40	17.10	75.00	100.00	79.30	17.30	2.80	6.00	100.00	61.60	15.20	11.70	7.40	4.10	100.00
Vision Impairment	No	N	9.00	20.00	58.00	203.00	946.00	1236.00	1001.00	204.00	31.00	7.00	1243.00	779.00	183.00	142.00	86.00	42.00	1232.00
		%	0.70	1.60	4.70	16.40	76.50	100.00	80.50	16.40	2.50	0.60	100.00	63.20	14.90	11.50	7.00	3.40	100.00
	Some	N	4.00	3.00	15.00	30.00	85.00	137.00	95.00	36.00	7.00	2.00	140.00	6.00	25.00	21.00	15.00	14.00	141.00
		%	2.90	2.20	10.90	21.90	62.00	100.00	67.90	25.70	5.00	1.40	100.00	46.80	17.70	14.90	10.60	9.90	100.00
	Total	N	13.00	23.00	73.00	233.00	1031.00	1373.00	1096.00	240.00	38.00	9.00	1383.00	845.00	208.00	163.00	101.00	56.00	1373.00
		%	0.90	1.70	5.30	17.00	75.10	100.00	79.20	17.40	2.70	0.70	100.00	61.50	15.40	11.90	7.40	4.10	100.00
Driving Status	Non Driver	N	0.00	0.00	2.00	3.00	16.00	21.00	13.00	3.00	3.00	2.00	21.00	15.00	0.00	3.00	0.00	2.00	20.00
		%	0.00	0.00	9.50	14.30	76.20	100.00	61.90	14.30	14.30	9.50	100.00	75.00	0.00	15.00	0.00	10.00	100.00
	Driver	N	13.00	26.00	72.00	321.00	1017.00	1359.00	1087.00	236.00	36.00	7.00	1366.00	832.00	212.00	158.00	101.00	54.00	1357.00
		%	1.00	1.90	5.30	17.00	74.80	100.00	79.60	17.30	2.60	0.50	100.00	61.30	15.60	11.60	7.40	4.00	100.00
	Total	N	13.00	26.00	74.00	234.00	1033.00	1338.00	1100.00	239.00	39.00	9.00	1387.00	847.00	212.00	161.00	101.00	56.00	1377.00
		%	0.90	1.90	5.40	17.00	74.90	100.00	79.30	17.20	2.80	0.60	100.00	61.50	15.40	11.70	7.30	4.10	100.00

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Missing data: I am able to keep my house warm (n=19,1.4%); does your residence have a problem with dampness or mould (n=20, 1.4%), my house is difficult for me to clean (n=11,0.8%)

Hearing Impairment	No	N	240.00	906.00	13.00	115.00	7.00	11.00	39.00	6.00	19.00	30.00	
		%	20.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	39.00	143.00		35.00	2.00	3.00	17.00		2.00	3.00	
		%	20.50	100.00		100.00	100.00	100.00	100.00		100.00	100.00	100.00
	Total	N	279.00	1049.00	13.00	150.00	9.00	14.00	56.00	6.00	21.00	33.00	
		%	20.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Vision Impairment	No	N	227.00	968.00	12.00	122.00	7.00	11.00	49.00	4.00	17.00	24.00	
		%	18.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	54.00	79.00	1.00	26.00	2.00	3.00	9.00	2.00	4.00	9.00	
		%	37.50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	281.00	1047.00	13.00	148.00	9.00	14.00	58.00	6.00	21.00	33.00	
		%	20.20	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Driving Status	Non Driver	N	9.00	9.00		6.00	1.00		3.00		1.00		
		%	42.90	100.00		100.00	100.00		100.00		100.00		
	Driver	N	270.00	1044.00	13.00	145.00	9.00	14.00	54.00	6.00	20.00	33.00	
		%	19.60	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	
	Total	N	279.00	1053.00	13.00	151.00	10.00	14.00	57.00	6.00	21.00	33.00	
		%	20.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Table 2.13. 65-74 Age Group. Unweighted demographic data for Housing Type.

			House or townhouse	Townhouse unit or apartment	Retirement village unit or apartment	Moveable dwelling (e.g. caravan)	Rest home or care hospital	Other	Missing	Total	
Housing Type	N		1304.00	127.00	19.00	10.00	5.00	50.00	19.00	1534.00	
	%		85.00	8.30	1.20	0.70	0.30	3.30	1.20	100.00	
Gender	Woman	N	713.00	78.00	13.00	5.00	2.00	27.00		838.00	
		%	85.10	9.30	1.60	0.60	0.20	3.20		100.00	
	Man	N	590.00	49.00	6.00	5.00	3.00	23.00		676.00	
		%	87.30	7.20	0.90	0.70	0.40	3.40		100.00	
	Total	N	1304.00	127.00	19.00	10.00	5.00	50.00		1515.00	
		%	86.10	8.40	1.30	0.70	0.30	3.30		100.00	
Ethnicity	NZE	N	867.00	79.00	15.00	6.00	3.00	34.00		1004.00	
		%	86.40	7.90	1.50	0.60	0.30	3.40		100.00	
	Māori	N	354.00	43.00	3.00	4.00	2.00	11.00		417.00	
		%	84.90	10.30	0.70	1.00	0.50	2.60		100.00	
	Pasifika	N	12.00	0.00	0.00	0.00	0.00	0.00		12.00	
		%	100.00	0.00	0.00	0.00	0.00	0.00		100.00	
	Asian	N	9.00	0.00	0.00	0.00	0.00	0.00		9.00	
		%	100.00	0.00	0.00	0.00	0.00	0.00		100.00	
	Other	N	54.00	4.00	1.00	0.00	0.00	5.00		64.00	
		%	84.40	6.30	1.60	0.00	0.00	7.80		100.00	
	Total	N	1296.00	126.00	19.00	10.00	5.00	50.00		1506.00	
		%	86.10	8.40	1.30	0.70	0.30	3.30		100.00	
	Caregiving	Yes	N	218.00	15.00	4.00	1.00	0.00	13.00		251.00
			%	86.90	6.00	1.60	0.40	0.00	5.20		100.00
No		N	1059.00	109.00	13.00	9.00	5.00	37.00		1232.00	
		%	86.00	8.80	1.10	0.70	0.40	3.00		100.00	
Total		N	1277.00	124.00	17.00	10.00	5.00	50.00		1483.00	
		%	86.10	8.40	1.10	0.70	0.30	3.40		100.00	

Hearing Impairment	No	N	1135.00	106.00	18.00	10.00	3.00	41.00	1313.00
		%	86.40	8.10	1.40	0.80	0.20	3.10	100.00
	Some	N	162.00	19.00	1.00	0.00	2.00	9.00	193.00
		%	83.90	9.80	0.50	0.00	1.00	4.70	100.00
	Total	N	1297.00	125.00	19.00	10.00	5.00	50.00	1506.00
		%	86.10	8.30	1.30	0.70	0.30	3.30	100.00
Vision Impairment	No	N	1163.00	102.00	16.00	10.00	1.00	42.00	1334.00
		%	87.20	7.60	1.20	0.70	0.10	3.10	100.00
	Some	N	131.00	23.00	3.00	0.00	4.00	8.00	169.00
		%	77.50	13.60	1.80	0.00	2.40	4.70	100.00
	Total	N	1294.00	125.00	19.00	10.00	5.00	50.00	1503.00
		%	86.10	8.30	1.30	0.70	0.30	3.30	100.00
Driving Status	Non Driver	N	25.00	5.00	0.00	0.00	0.00	0.00	30.00
		%	83.30	16.70	0.00	0.00	0.00	0.00	100.00
	Driver	N	1276.00	122.00	19.00	10.00	5.00	50.00	1482.00
		%	86.10	8.20	1.30	0.70	0.30	3.40	100.00
	Total	N	1301.00	127.00	19.00	10.00	5.00	50.00	1512.00
		%	86.00	8.40	1.30	0.70	0.30	3.30	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.14. 65-74 Age Group. Unweighted demographic data for Housing Tenure.

		Owned by self or partner with mortgage	Owned by self or partner without mortgage	Owned by family/ whānau	Owned by family/ whānau trust	Private rental	State council or kaumatua housing	Licence to occupy	Other	Missing	Total	
Tenure	N	222.00	1001.00	33.00	98.00	89.00	37.00	16.00	23.00	15.00	1534.00	
	%	14.50	65.30	2.20	6.40	5.80	2.40	1.00	1.50	1.00	100.00	
Gender	Woman	N	112.00	559.00	23.00	51.00	49.00	21.00	8.00	18.00	841.00	
		%	13.30	66.50	2.70	6.10	5.80	2.50	1.00	2.10	100.00	
	Man	N	110.00	441.00	10.00	47.00	40.00	16.00	8.00	5.00	677.00	
		%	16.20	65.10	1.50	6.90	5.90	2.40	1.20	0.70	100.00	
Total	N	222.00	1001.00	33.00	98.00	89.00	37.00	16.00	23.00	1519.00		
	%	14.60	65.90	2.20	6.50	5.90	2.40	1.10	1.50	100.00		
Ethnicity	NZE	N	142.00	712.00	9.00	69.00	36.00	11.00	12.00	13.00	1004.00	
		%	14.10	70.90	0.90	6.90	3.60	1.10	1.20	1.30	100.00	
	Māori	N	64.00	231.00	19.00	25.00	50.00	24.00	1.00	7.00	421.00	
		%	15.20	54.90	4.50	5.90	11.90	5.70	0.20	1.70	100.00	
	Pasifika	N	4.00	5.00	0.00	1.00	0.00	1.00	0.00	1.00	12.00	
		%	33.30	41.70	0.00	8.30	0.00	8.30	0.00	8.30	100.00	
	Asian	N	1.00	6.00	1.00	1.00	1.00	0.00	0.00	0.00	10.00	
		%	10.00	60.00	10.00	10.00	10.00	0.00	0.00	0.00	100.00	
	Other	N	10.00	41.00	3.00	2.00	2.00	1.00	3.00	2.00	64.00	
		%	15.60	64.10	4.70	3.10	3.10	1.60	4.70	3.10	100.00	
	Total	N	221.00	995.00	32.00	98.00	89.00	37.00	16.00	23.00	1511.00	
		%	14.60	65.90	2.10	6.50	5.90	2.40	1.10	1.50	100.00	
	Caregiving	Yes	N	49.00	153.00	2.00	18.00	14.00	8.00	4.00	3.00	251.00
			%	19.50	61.00	0.80	7.20	5.60	3.20	1.60	1.20	100.00
No		N	166.00	829.00	30.00	78.00	73.00	29.00	10.00	18.00	1233.00	
		%	13.50	67.20	2.40	6.30	5.90	2.40	0.80	1.50	100.00	
Total		N	215.00	982.00	32.00	96.00	87.00	37.00	14.00	21.00	1484.00	
		%	14.50	66.20	2.20	6.50	5.90	2.50	0.90	1.40	100.00	

Hearing Impairment	No	N	192.00	874.00	28.00	86.00	76.00	26.00	12.00	18.00	1312.00
		%	14.60	66.60	2.10	6.60	5.80	2.00	0.90	1.40	100.00
	Some	N	28.00	122.00	4.00	12.00	13.00	10.00	4.00	5.00	198.00
		%	14.10	61.60	2.00	6.10	6.60	5.10	2.00	2.50	100.00
	Total	N	220.00	996.00	32.00	98.00	89.00	36.00	16.00	23.00	1510.00
		%	14.60	66.00	2.10	6.50	5.90	2.40	1.10	1.50	100.00
Vision Impairment	No	N	190.00	902.00	26.00	92.00	75.00	27.00	13.00	15.00	1340.00
		%	14.20	67.30	1.90	6.90	5.60	2.00	1.00	1.10	100.00
	Some	N	30.00	90.00	6.00	6.00	14.00	10.00	3.00	8.00	167.00
		%	18.00	53.90	3.60	3.60	8.40	6.00	1.80	4.80	100.00
	Total	N	220.00	992.00	32.00	98.00	89.00	37.00	16.00	23.00	1507.00
		%	14.60	65.80	2.10	6.50	5.90	2.50	1.10	1.50	100.00
Driving Status	Non Driver	N	3.00	17.00	0.00	1.00	5.00	3.00	0.00	1.00	30.00
		%	10.00	56.70	0.00	3.30	16.70	10.00	0.00	1.00	100.00
	Driver	N	219.00	982.00	33.00	97.00	84.00	34.00	16.00	22.00	1487.00
		%	14.70	66.00	2.20	6.50	5.60	2.30	1.10	1.50	100.00
	Total	N	222.00	999.00	33.00	98.00	89.00	37.00	16.00	23.00	1517.00
		%	14.60	65.90	2.20	6.50	5.90	2.40	1.10	1.50	100.00

Notes: Percentages presented for demographic data are from within data for each variable
 Caregiving for illness, disability or frailty in the last 12 months

Table 2.15. 65-74 Age Group. Unweighted demographic data for Housing Condition.

		I am able to keep my house warm						Does your residence have a problem with dampness or mould					My house is difficult for me to clean						
		Def. not	Blank	Neutral	Blank	Def. yes	Total	No	Minor prob.	Moderate prob.	Major prob.	Total	Def. not	Blank	Neutral	Blank	Def. yes	Total	
Housing condition	N	17.00	30.00	84.00	252.00	1131.00	1534.00	1172.00	276.00	61.00	13.00	1534.00	909.00	228.00	183.00	120.00	68.00	1534.00	
	%	1.10	2.00	5.50	16.40	73.70	100.00	76.40	18.00	4.00	0.80	100.00	59.30	14.90	11.90	7.80	4.40	100.00	
Gender	Woman	N	8.00	18.00	46.00	132.00	632.00	836.00	645.00	153.00	36.00	8.00	842.00	506.00	103.00	103.00	74.00	45.00	831.00
	%	1.00	2.20	5.50	15.80	75.60	100.00	76.60	18.20	4.30	1.00	100.00	60.90	12.40	12.40	8.90	5.40	100.00	
Gender	Man	N	9.00	12.00	38.00	120.00	498.00	677.00	526.00	123.00	25.00	5.00	679.00	402.00	125.00	80.00	46.00	23.00	676.00
	%	1.30	1.80	5.60	17.70	73.60	100.00	77.50	18.10	3.70	0.70	100.00	59.90	18.50	11.80	6.80	3.40	100.00	
Gender	Total	N	17.00	30.00	84.00	252.00	1131.00	1514.00	1172.00	276.00	61.00	13.00	1522.00	909.00	228.00	183.00	120.00	68.00	1508.00
	%	1.10	2.00	5.50	16.60	74.70	100.00	77.00	18.10	4.00	0.90	100.00	60.30	15.10	12.10	8.00	4.50	100.00	
Ethnicity	NZE	N	9.00	22.00	43.00	168.00	756.00	998.00	817.00	157.00	24.00	6.00	1004.00	609.00	153.00	112.00	79.00	43.00	996.00
	%	0.90	2.20	4.30	16.80	75.80	100.00	81.40	15.60	2.40	0.60	100.00	61.10	15.40	11.20	7.90	4.30	100.00	
Ethnicity	Māori	N	8.00	7.00	30.00	70.00	307.00	422.00	282.00	105.00	31.00	6.00	424.00	240.00	62.00	61.00	35.00	21.00	419.00
	%	1.90	1.70	7.10	16.60	72.70	100.00	66.50	24.80	7.30	1.40	100.00	57.30	14.80	14.60	8.40	5.00	100.00	
Ethnicity	Pasifika	N	0.00	1.00	1.00	0.00	10.00	12.00	8.00	0.00	3.00	1.00	12.00	9.00	0.00	0.00	1.00	2.00	12.00
	%	0.00	8.30	8.30	0.00	83.30	100.00	66.70	0.00	25.00	8.30	100.00	75.00	0.00	0.00	8.30	16.70	100.00	
Ethnicity	Asian	N	0.00	0.00	2.00	1.00	7.00	10.00	7.00	3.00	0.00	10.00	5.00	2.00	2.00	0.00	1.00	10.00	
	%	0.00	0.00	20.00	10.00	70.00	100.00	70.00	30.00	0.00	0.00	100.00	50.00	20.00	20.00	0.00	10.00	100.00	
Ethnicity	Other	N	0.00	0.00	7.00	11.00	46.00	64.00	52.00	10.00	2.00	0.00	64.00	42.00	8.00	8.00	5.00	1.00	64.00
	%	0.00	0.00	10.90	17.20	71.90	100.00	81.30	15.60	3.10	0.00	100.00	65.60	12.50	12.50	7.80	1.60	100.00	
Ethnicity	Total	N	17.00	30.00	83.00	250.00	1126.00	1506.00	1166.00	275.00	60.00	13.00	1514.00	905.00	225.00	183.00	120.00	68.00	1501.00
	%	1.10	2.00	5.50	16.60	74.80	100.00	77.00	18.20	4.00	0.90	100.00	60.30	15.00	12.20	8.00	4.50	100.00	
Caregiving	Yes	N	2.00	9.00	13.00	46.00	179.00	249.00	186.00	50.00	14.00	0.00	250.00	135.00	41.00	32.00	27.00	12.00	247.00
	%	0.80	3.60	5.20	18.50	71.90	100.00	74.40	20.00	5.60	0.00	100.00	54.70	16.60	13.00	10.90	4.90	100.00	
Caregiving	No	N	15.00	21.00	68.00	200.00	925.00	1229.00	959.00	220.00	45.00	12.00	1236.00	756.00	182.00	147.00	89.00	52.00	1226.00
	%	1.20	1.70	5.50	16.30	75.30	100.00	77.60	17.80	3.60	1.00	100.00	61.70	14.80	12.00	7.30	4.20	100.00	
Caregiving	Total	N	17.00	30.00	81.00	246.00	1104.00	1478.00	1145.00	270.00	59.00	12.00	1486.00	891.00	223.00	179.00	116.00	64.00	1473.00
	%	1.20	2.00	5.50	16.50	74.70	100.00	77.10	18.20	4.00	0.80	100.00	60.50	15.10	12.20	7.90	4.30	100.00	

Hearing Impairment	No	N	15.00	21.00	69.00	206.00	995.00	1306.00	1036.00	224.00	48.00	7.00	1315.00	813.00	190.00	151.00	88.00	58.00	1300.00
		%	1.10	1.60	5.30	15.80	76.20	100.00	78.80	17.00	3.70	0.50	100.00	52.50	14.60	11.60	6.80	4.50	100.00
	Some	N	2.00	8.00	14.00	46.00	129.00	199.00	132.00	49.00	13.00	5.00	199.00	92.00	36.00	30.00	31.00	10.00	199.00
		%	1.00	4.00	7.00	23.10	64.80	100.00	66.30	24.60	6.50	2.50	100.00	46.20	18.10	15.10	15.60	5.00	100.00
	Total	N	17.00	29.00	83.00	252.00	1124.00	1505.00	1168.00	273.00	61.00	12.00	1514.00	905.00	226.00	181.00	119.00	68.00	1499.00
		%	1.10	1.90	5.50	16.70	74.70	100.00	77.10	18.00	4.00	0.80	100.00	60.40	15.10	12.10	7.90	4.50	100.00
Vision Impairment	No	N	12.00	25.00	63.00	221.00	1014.00	1335.00	1057.00	232.00	44.00	8.00	1341.00	826.00	200.00	155.00	94.00	52.00	1327.00
		%	0.90	1.90	4.70	16.60	76.00	100.00	78.80	17.30	3.30	0.60	100.00	62.20	15.10	11.00	7.10	3.90	100.00
	Some	N	5.00	3.00	20.00	30.00	109.00	167.00	109.00	39.00	17.00	5.00	170.00	77.00	24.00	27.00	25.00	16.00	169.00
		%	3.00	1.80	12.00	18.00	65.30	100.00	64.10	22.90	10.00	2.90	100.00	45.60	14.20	16.00	14.80	9.50	100.00
	Total	N	17.00	28.00	83.00	251.00	1123.00	1502.00	1166.00	271.00	61.00	13.00	1511.00	903.00	224.00	182.00	119.00	68.00	1496.00
		%	1.10	1.90	5.50	16.70	74.80	100.00	77.20	17.90	4.00	0.90	100.00	60.40	15.00	12.20	8.00	4.50	100.00
Driving Status	Non Driver	N	0.00	0.00	3.00	4.00	23.00	30.00	16.00	8.00	5.00	2.00	31.00	20.00	1.00	6.00	1.00	2.00	30.00
		%	0.00	0.00	10.00	13.30	76.70	100.00	51.60	25.80	16.10	6.50	100.00	66.70	3.30	20.00	3.30	6.70	100.00
	Driver	N	17.00	30.00	81.00	248.00	1105.00	1481.00	1154.00	267.00	56.00	11.00	1488.00	887.00	227.00	176.00	119.00	66.00	1475.00
		%	1.10	2.00	5.50	16.70	74.60	100.00	77.60	17.90	3.80	0.70	100.00	60.10	15.40	11.90	8.10	4.50	100.00
	Total	N	17.00	30.00	84.00	252.00	1128.00	1511.00	1170.00	275.00	61.00	13.00	1519.00	907.00	228.00	182.00	120.00	68.00	1505.00
		%	1.10	2.00	5.60	16.70	74.70	100.00	77.00	18.10	4.00	0.90	100.00	60.30	15.10	12.10	8.00	4.50	100.00

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Missing data: I am able to keep my house warm (n=20,13%); does your residence have a problem with dampness or mould (n=12, 0.8%), my house is difficult for me to clean (n=26,1.7%)

Hearing Impairment	No	N	273.00	972.00	17.00	138.00	13.00	15.00	73.00	5.00	21.00	31.00
		%	20.60	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	39.00	150.00	2.00	37.00	2.00	4.00	16.00	1.00	3.00	6.00
		%	19.40	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	312.00	1122.00	19.00	175.00	15.00	19.00	89.00	6.00	24.00	37.00
		%	20.50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Vision Impairment	No	N	254.00	1020.00	16.00	146.00	11.00	15.00	77.00	4.00	17.00	26.00
		%	18.80	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Some	N	59.00	98.00	3.00	27.00	4.00	4.00	13.00	2.00	7.00	10.00
		%	34.10	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
	Total	N	313.00	1118.00	19.00	173.00	15.00	19.00	90.00	6.00	24.00	36.00
		%	20.60	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Driving Status	Non Driver	N	12.00	14.00	1.00	10.00	1.00		5.00	6.00	3.00	2.00
		%	37.50	100.00	100.00	100.00	100.00		100.00	100.00	100.00	100.00
	Driver	N	302.00	1113.00	18.00	165.00	15.00	20.00	84.00		21.00	35.00
		%	20.20	100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00
	Total	N	314.00	1127.00	19.00	175.00	16.00	20.00	89.00	6.00	24.00	37.00
		%	20.50	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

Notes: Percentages presented for demographic data are from within data for each variable

Caregiving for illness, disability or frailty in the last 12 months

Appendix 3.

Associations of NZDep Scores with Perceptions of Neighbourhood Qualities.

The NZDep is an area-based measure of socioeconomic deprivation in New Zealand¹. It measures the level of deprivation for people in each small area (Statistical Area 1), based on nine Census variables.

NZDep is generally reported as deciles. Each NZDep decile includes about 10% of the small areas in New Zealand. Decile 1 represents areas with the least deprived scores and Decile 10 represents areas with the most deprived scores

The NZDep for 2018 (NZDep2018) is based on similar but updated census variables² as earlier versions. It provides a deprivation score for each Statistical Area 1 (and its constituent meshblocks) in New Zealand.

75+ Age Group

Table 3.1 shows the bivariate correlations between NZDep2018 scores (a continuous variable) and the HWR neighbourhood and housing perception scores. Neighbourhood Accessibility and Housing Satisfaction are not correlated with NZDep scores. Neighbourhood Satisfaction is weakly but significantly related to NZDep scores; the less deprivation, the greater the satisfaction. Neighbourhood Trust is weakly related to NZDep in that greater deprivation is related to higher mean trust scores among those aged over 75.

Table 3.1. Pearson's r correlation coefficients between NZDep 2018 Scores and Neighbourhood and Housing Assessments by HWR participants age 75+ (unweighted data).

	NZDep2018	Neighbourhood Accessibility	Neighbourhood Trust	Housing Satisfaction
NZDep2018	1			
Neighbourhood Accessibility	.02	1		
Neighbourhood Trust	.08*	.19**	1	
Housing Satisfaction	-.02	.28**	.25**	1
Neighbourhood Satisfaction.	-.13**	.25**	.27**	.35**

* Correlation is significant at $p < 0.05$ (2-tailed)

** Correlation is significant at $p < 0.01$ (2-tailed)

Table 3.2 shows the results of using ANOVA to test the relationship between the Decile scores (1-10) and the neighbourhood and housing assessments. As expected, the results are similar although the deciles are a cruder assessment of difference. Only Neighbourhood Satisfaction and Neighbourhood Trust are significantly associated with the Decile differences at $p < .01$. The Eta² statistic shows the strength of the associations.

Table 3.2. Relationships between NZDep 2018 Deciles and Neighbourhood and Housing Assessments by HWR participants age 75+ (unweighted data).

	df	F	Sig.	Eta ²
Neighbourhood Satisfaction *	9	2.877	.002	.038
NZDep2018	660			
	669			
Housing Satisfaction *	9	.406	.932	.006
NZDep2018	586			
	595			
Neighbourhood Trust *	9	1.898	.049	.026
NZDep2018	635			
	644			
Neighbourhood Accessibility *	9	1.175	.308	.016
NZDep2018	648			
	657			

65-74 Age Group

The younger group shows a different pattern of relationships. Neighbourhood satisfaction remains related to levels of Deprivation in the same direction, but there is no association with Neighbourhood Trust. Housing and Neighbourhood Satisfaction are both weakly but significantly related to NZDep; the lower the deprivation score, the greater the satisfaction. Because both Housing and Neighbourhood Satisfaction are quite well correlated at $r = .40$ their joint relationship with deprivation is not surprising. Table 3.3 shows the bivariate correlations between NZDep2018 scores and the HWR neighbourhood and housing perception scores.

Table 3.3. Pearson's r correlation coefficients between NZDep 2018 Scores and Neighbourhood and Housing Assessments by HWR participants age 65-74 (unweighted data).

	NZDep2018	Neighbourhood Accessibility	Neighbourhood Trust	Housing Satisfaction
NZDep2018	1			
Neighbourhood Accessibility	-.04	1		
Neighbourhood Trust	-.02	.16**	1	
Housing Satisfaction	-.10**	.33**	.23**	1
Neighbourhood Satisfaction.	-.20**	.29**	.30**	.40**

** Correlation is significant at $p < 0.01$ (2-tailed)

Table 3.4 shows that the results of using ANOVA to test the relationship between the Decile scores (1-10) and the neighbourhood and housing assessments are again similar. Only Neighbourhood and Housing Satisfaction are significantly associated with the Decile differences at $p < .01$. The Eta² statistic shows the strength of these associations.

Table 3.4. Relationships between NZDep 2018 Deciles and Neighbourhood and Housing Assessments by HWR participants age 65-74 (unweighted data).

	df	F	Sig.	Eta ²
Neighbourhood Satisfaction *	9	8.060	.000	.046
NZDep2018	1503			
Housing Satisfaction *	9	2.498	.008	.016
NZDep2018	1425			
Neighbourhood Trust *	9	1.162	.315	.007
NZDep2018	1472			
Neighbourhood Accessibility *	9	1.229	.273	.007
NZDep2018	1487			
	1496			

References

1. Atkinson J, Salmond C, Crampton P. 2014. NZDep2013 Index of Deprivation. Wellington: Department of Public Health, University of Otago, Wellington. Available online: <http://www.otago.ac.nz/wellington/research/hirp/otago020194.html>
2. <https://ehinz.ac.nz/indicators/population-vulnerability/socioeconomic-deprivation-profile/#nzdep-for-2018-nzdep2018>