

# 2018 Health, Work & Retirement Survey

## Content Inventory

Question #	Content	# items	Origin & Reference (where applicable)
<b>HEALTH AND WELLBEING</b>			
Q1, Q4-Q9	SF-12	12	Australia/New Zealand adaptation SF-12v2: Ware J, Kosinski M, Turner-Bowker D, Gandek B. How to Score Version 2 of the SF-12® Health Survey (With a Supplement Documenting Version 1). Lincoln, RI: Quality Metric Incorporated; 2002  Recommended scoring: Frieling MA, Davis WR, Chiang G. 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. 2013;37(1):24-31.
Q2	Life satisfaction	1	The WHOQoL Group. Development of the World Health Organization WHOQOL-BREF quality of life assessment. The WHOQOL Group. Psychol Med. 1998;28(3):551-558.
Q3	WHO Quality of life	1	WHOWoL-8: kept single item "...rate your quality of life"
Q10	Purpose in life	6	Scheier MF, Wrosch C, Baum A, et al. The Life Engagement Test: assessing purpose in life. Journal of behavioral medicine. 2006;29(3):291-298.
Q11	CES-D	10	Andresen, E. M., Malmgren, J. A., Carter, W. B., & Patrick, D. L. (1994). Screening for depression in well older adults: evaluation of a short form of the CES-D (Center for Epidemiologic Studies Depression Scale). Am J Prev Med, 10(2), 77-84
Q12	GAI	5	Byrne GJ, Pachana NA. Development and validation of a short form of the Geriatric Anxiety Inventory--the GAI-SF. Int Psychogeriatr. 2011 Feb;23(1):125-31. doi: 10.1017/S1041610210001237. Epub 2010 Jun 18. PMID: 20561386.
Q13	CASP-12	12	Wiggins RD, Netuveli G, Hyde M, Higgs P, Blane D. The Evaluation of a Self- enumerated Scale of Quality of Life (CASP-19) in the Context of Research on Ageing: A Combination of Exploratory and Confirmatory

			Approaches. <i>Social Indicators Research</i> . 2008;89(1):61-77.
Q14	Physical activity	3	Items from ELSA
Q15-16	Health service use	5	Items from Medical Expenditure Panel Survey
Q17	Chronic conditions	15	Health and Ageing Research Team
Q18-Q19	Vision and hearing impairment	2	Vision questions are drawn from the NZ Disability Survey.
Q20-21	Falls	2	Lamb SE, Jørstad-Stein EC, Hauer K, Becker C; Prevention of Falls Network Europe and Outcomes Consensus Group. Development of a common outcome data set for fall injury prevention trials: the Prevention of Falls Network Europe consensus. <i>J Am Geriatr Soc</i> . 2005;53(9):1618-1622. doi:10.1111/j.1532-5415.2005.53455.x
Q22	Sleep	1	Rosie Gibson
Q23	Driving	1	Taylor, J.E., Alpass, F., Stephens, C., & Towers, A. (2011). Driving anxiety and fear in young older adults in New Zealand. <i>Age and Ageing</i> , 40, 62-66. doi:10.1093/ageing/afq154
Q24	Smoking	2	
Q25	Alcohol use	4	AUDIT-C
<b>WHĀNAU, FAMILY AND FRIENDS</b>			
Q26	Childcare	2	Australian Longitudinal Study on Women's Health (ALSWH)
Q27-Q29	Volunteering	8	Dr Patrick Dulin - Volunteer frequency: HWR Team
Q30	Social participation	7	
Q31	Loneliness	6	Gierveld, J. D. J., & Tilburg, T. V. (2006). A 6-Item Scale for Overall, Emotional, and Social Loneliness: Confirmatory Tests on Survey Data. <i>Research on Aging</i> , 28(5), 582-598. doi: 10.1177/0164027506289723

Q32	Social Provisions Scale	24	Cutrona, C. E., & Russell, D. W. (1987). The provisions of social relationships and adaptation to stress. <i>Advances in personal relationships</i> , 1(1), 37-67.
<b>CAREGIVING</b>			
Q33-Q34	Caregiving commitments	2	Australian Women's Longitudinal Study on Women's Health (ALSWH)
Q35-Q42	Key care recipient details and care duration	9	Australian Women's Longitudinal Study on Women's Health (ALSWH)
Q43-Q44	Care in crisis	4	HWR/NZLSA
Q45-Q46	Care type+care help	19+10	<p>LaPlante MP. The classic measure of disability in activities of daily living is biased by age but an expanded IADL/ADL measure is not. <i>The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences</i>. 2010;65:720–732. doi:10.1093/geronb/gbp129</p> <p>Spector WD, Fleishman JA. Combining activities of daily living with instrumental activities of daily living to measure functional disability. <i>The Journals of Gerontology, Series B: Psychological Sciences and Social Sciences</i>. 1998;53:46–57. doi:10.1093/geronb/53B.1.S46.</p> <p>McKenzie, S., Tooth, L., Lucke, J., &amp; Dobson, A. (2009). <i>Caring and use of services in women born between 1946 and 1951: Findings from the Australian Longitudinal Study on Women's Health: Detailed report for the Australian Government Department of Health and Ageing Carers Project, Stage 2, Phase 1.</i></p>
Q47-Q49	Care and work	18	Davey and Keeling, <i>Working Carers Report</i> , 2004, Alpass and Keeling
Q50-Q52	Care relationship + overall	2	Women's Health Australia (caring for your health pilot study) 2007
<b>WHERE YOU LIVE</b>			
Q53-Q55	Current housing type and tenure	3	Heywood F Oldman C Means R (2002)

Q56	Moving plans	1	Heywood F Oldman C Means R (2002)
Q57-Q60	Housing satisfaction	19	Heywood F Oldman C Means R (2002)
Q61	Neighbourhood trust	6	Stafford et al 2003
<b>WORK AND RETIREMENT</b>			
Q62	Retirement age	1	
Q63	Hours paid employment	1	HWR/NZLSA
Q64	Entrepreneurship	3	
Q65-66	Preferred and current work	2	Grant Scobie, New Zealand Treasury
Q67	Job Search strategy	16	Crossley, C. D., & Highhouse, S. (2005). Relation of job search and choice process with subsequent satisfaction. <i>Journal of Economic Psychology</i> , 26(2), 255-268, doi: <a href="https://doi.org/10.1016/j.joep.2004.04.001">https://doi.org/10.1016/j.joep.2004.04.001</a> .
Q68-Q69	Occupation and duration of employment	3	Australian Bureau of Statistics & Statistics New Zealand. (2006). Australian and New Zealand Standard Classification of Occupations: First Edition. ABS cat. no. 1220.0.

Q70a	Job satisfaction	1	from Brayfield et al., 1951
Q70b	Work involvement	1	Work Involvement Index: Kanungo, R. N. (1982). Measurement of job and work involvement. <i>Journal of Applied Psychology</i> , 67, 341-349.
Q70c	Job demands/decision latitude	1	J.H. Greenhaus, S. Parasuraman, W.M. Wormley. Effects of race on organizational experiences, job performance evaluations, and career outcomes. <i>Academy of Management Journal</i> , 33 (1990), pp. 64-86
Q70d	Job stress index	1	HWR
Q70e	Work/family conflict	1	Kopelman, R. E., Greenhaus, J. H., & Connolly, T. F. (1983). A model of work, Family, and interrole conflict: A construct validation study. <i>Organizational Behavior and Human Performance</i> , 32, 198-215.
Q71-79	Work Ability Index (without chronic illnesses)	9	<p>Schouten, L. S., Bültmann, U., Heymans, M. W., Joling, C. I., Twisk, J. W. R., &amp; Roelen, C. A. M. (2016). Shortened version of the work ability index to identify workers at risk of long-term sickness absence. <i>European Journal of Public Health</i>, 26(2), 301-305, doi:10.1093/eurpub/ckv198.</p> <p>Andreas, L., Ola, L., Marjan, V., Mats, H., &amp; Margareta, T. (2017). Predictive validity of the Work Ability Index and its individual items in the general population. <i>Scandinavian Journal of Public Health</i>, 45(4), 350-356, doi:10.1177/1403494817702759.</p>

Q80	Stereotype threat	5	<p>Kulik, C. T., Perera, S., &amp; Cregan, C. (2016). Engage Me: The Mature-Age Worker and Stereotype Threat. <i>Academy of Management Journal</i>, 59(6), 2132-2156, doi:10.5465/amj.2015.0564.</p> <p>Roberson, L., Deitch, E. A., Brief, A. P., &amp; Block, C. J. (2003). Stereotype threat and feedback seeking in the workplace. <i>Journal of Vocational Behavior</i>, 62(1), 176-188, doi:https://doi.org/10.1016/S0001-8791(02)00056-8..</p>
Q81	Age group identity	5	<p>Macdonald, J. L., &amp; Levy, S. R. (2016). Ageism in the Workplace: The Role of Psychosocial Factors in Predicting Job Satisfaction, Commitment, and Engagement. <i>Journal of Social Issues</i>, 72(1), 169-190, doi:10.1111/josi.12161.</p> <p>Garstka, T. A., Schmitt, M. T., Branscombe, N. R., &amp; Hummert, M. L. (2004). How Young and Older Adults Differ in Their Responses to Perceived Age Discrimination. <i>Psychology and Aging</i>, 19(2), 326-335, doi:10.1037/0882-7974.19.2.326.</p>
Q82	Nordic Age Discrimination Scale (NADS)	6	<p>Furunes, T., &amp; Mykletun, R. J. (2010). Age discrimination in the workplace: Validation of the Nordic Age Discrimination Scale (NADS). <i>Scandinavian Journal of Psychology</i>, 51(1), 23-30, doi:10.1111/j.1467-9450.2009.00738.x.</p>

Q83	Flexible Work Arrangements	20	<p>Rudolph, C. W., &amp; Baltes, B. B. (2017). Age and health jointly moderate the influence of flexible work arrangements on work engagement: Evidence from two empirical studies. <i>J Occup Health Psychol</i>, 22(1), 40-58, doi:10.1037/a0040147.</p> <p>Pitt-Catsoupes, M., &amp; Smyer, M. (2013). Age and generations study, 2007–2008. Retrieved from: <a href="http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/34837">http://www.icpsr.umich.edu/icpsrweb/ICPSR/studies/34837</a></p>
Q84	Perceived adequacy of available flexible work arrangements	1	Health and Ageing Research Team
Q85	Work Related Stress (Effort-Rewards Imbalance Scale)	16	Siegrist, J., Starke, D., Chandola, T., Godin, I., Marmot, M., Niedhammer, I., et al. (2004). The measurement of effort-reward imbalance at work: European comparisons. <i>Soc Sci Med</i> , 58(8), 1483-1499, doi:10.1016/s0277-9536(03)00351-4.
Q86	Organisational Commitment	20	Jaros, S. (2007). Meyer and Allen model of organizational commitment: Measurement issues. <i>The Icfa Journal of Organizational Behavior</i> , 6(4), 7-25.
Q87	Utrecht Work Engagement Scale (UWES-9)	9	Seppälä, P., Mauno, S., Feldt, T., Hakanen, J., Kinnunen, U., Schaufeli, W., et al. (2009). The Construct Validity of the Utrecht Work Engagement Scale: Multisample and Longitudinal Evidence. <i>Journal of Happiness Studies</i> , 10(4), 459-481, doi:10.1007/s10902-008-9100-y.

Q88	Meaningfulness of Work	6	May, D. R., Gilson, R. L., & Harter, L. M. (2004). The psychological conditions of meaningfulness, safety and availability and the engagement of the human spirit at work. <i>Journal of Occupational and Organizational Psychology</i> , 77(1), 11-37, doi:10.1348/096317904322915892.
Q89	Availability of Training	3	Adapted from Taylor, P., & Urwin, P. (2002). Age and Participation in Vocational Education and Training. <i>Work, Employment and Society</i> , 15(4), 763-779, doi:10.1017/S0950017001007632.
Q90	Training Perceptions	12	Bulut, C., & Culha, O. (2010). The effects of organizational training on organizational commitment. <i>International Journal of Training and Development</i> , 14(4), 309-322, doi:10.1111/j.1468-2419.2010.00360.x.
Q91-Q92	Quit intention	2	Fabi, B., Lacoursière, R., & Raymond, L. (2015). Impact of high-performance work systems on job satisfaction, organizational commitment, and intention to quit in Canadian organizations. <i>International Journal of Manpower</i> , 36(5), 772–790. <a href="https://doi.org/10.1108/IJM-01-2014-0005">https://doi.org/10.1108/IJM-01-2014-0005</a>
Q93-Q94	Retirement intentions	2+1	Adams, G. A., & Beehr, T. A. (1998). Turnover and retirement: a comparison of their similarities and differences. <i>Personnel Psychology</i> , 51(3), 643-665, doi:10.1111/j.1744-6570.1998.tb00255.x.



YOUR FINANCIAL WELLBEING			
Q95-Q97	Personal and household income, superannuation, and number of dependants	4	NZ Census
Q98-Q103	ELSI-SF	25	Economic Living Standards Index Short Form (ELSI Short Form): Jensen, J., Spittal, M., & Vasantha Krishnan. (2005). ELSI Short Form: User manual for a direct measure of living standards. Retrieved from <a href="http://www.msd.govt.nz/about-msd-and-our-work/publications-resources/monitoring/living-standards/elsi-short-form.html">http://www.msd.govt.nz/about-msd-and-our-work/publications-resources/monitoring/living-standards/elsi-short-form.html</a>
Q104	LS-CAPE + dentistry item	6+1	Breheny, M., Stephens, C., Henricksen, A., Stevenson, B., Carter, K., & Alpass, F. (2014). Measuring living standards of older people using Sen's Capability Approach: development and validation of the LSCAPE-24 (Living Standards Capabilities for Elders) and LSCAPE-6. <i>Ageing and Society</i> , 36(2), 307-332, doi:10.1017/S0144686X14001160.
YOUR PERSONAL SITUATION			
Q105-Q109	Gender, sexuality, DOB, marital status, education	5	NZ Census
Q110	Household composition	1	NZ Census
Q111	Ethnicity?	2	NZ Census
Q112a/b	Where were you born?	2	
MAORI CULTURAL IDENTITY			
Q113-Q114	Maori identification	2	Te Hoe Nuku Roa Study
Q115-Q16	Whānau engagement	1	Te Hoe Nuku Roa Study

Q117	Financial interest in Māori land	1	Te Hoe Nuku Roa Study
Q118	Māori contacts	1	Te Hoe Nuku Roa Study
Q119a/b	Iwi affiliation	2	Te Hoe Nuku Roa Study
Q120	Māori language	1	Te Hoe Nuku Roa Study