

# 2020 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<br><br>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"   |
| Q10-11                      | Subjective memory complaints | 2       | Items from HRS  |
| Q12                         | 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.   |
| Q13                         | 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   |
| Q14                         | 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.  |

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| Q16                               | 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.   |
| Q15                               | Physical activity             | 3  | Items from ELSA   |
| Q17-18                            | Health service use            | 6  | Items from Medical Expenditure Panel Survey   |
| Q19-20                            | COVID-19 (neg. impact)        | 3  | HART  |
| Q21                               | Chronic conditions            | 15 | Health and Ageing Research Team   |
| Q22-23                            | Vision and hearing impairment | 2  | Vision questions are drawn from the NZ Disability Survey.   |
| Q24-25                            | 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 |
| Q26-27                            | Sleep                         | 2  | Rosie Gibson  |
| Q28a                              | 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  |
| Q28b-28e                          | Car accidents                 | 4  | Laura Fraade-Blanar RAND Corporation  |
| Q29-30                            | Smoking                       | 2  |   |
| Q31-32                            | Alcohol use                   | 4  | AUDIT-C   |
| Q33                               | Cannabis use                  | 3  | Christchurch Health and Development Study   |
| <b>WHĀNAU, FAMILY AND FRIENDS</b> |                               |    |   |
| Q34                               | Childcare                     | 2  | Australian Longitudinal Study on Women's Health (ALSWH)   |
| Q35-36                            | Volunteering                  | 2  | Dr Patrick Dulin - Volunteer frequency: HWR Team  |
| Q37                               | Social participation          | 7  |   |

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| Q38               | 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   |
| Q39               | 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> |  |       |  |
| Q40-42            | Caregiving commitments                       | 2     | Australian Women's Longitudinal Study on Women's Health (ALSWH)  |
| Q43-50            | Key care recipient details and care duration | 9     | Australian Women's Longitudinal Study on Women's Health (ALSWH)  |
| Q51-54            | Care in crisis                               | 4     | HWR/NZLSA  |
| Q55-56            | 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> |
| Q57-58            | Care and work                                | 16    | Davey and Keeling, <i>Working Carers Report</i> , 2004, Alpass and Keeling   |
| Q59-60            | Care relationship + overall                  | 2     | Women's Health Australia (caring for your health pilot study) 2007   |
| Q61-62            | Care impact                                  | 13    | Derived from the Canadian General Social Survey, e.g.: Williams, A.M., Wang, L. and Kitchen, P. (2016), <i>Impacts of care-giving and sources of support: a</i>  |

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|                            |                                 |    | comparison of end-of-life and non-end-of-life caregivers in Canada. <i>Health Soc Care Community</i> , 24: 214-224. doi:10.1111/hsc.12205   |
| <b>WHERE YOU LIVE</b>      |                                 |    |   |
| Q63-65                     | Current housing type and tenure | 3  | Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press   |
| Q66 a-i                    | Housing satisfaction            | 3  | (61a-c) Oswald, F., Schilling, O., Wahl, H.-W., Fänge, A., Sixsmith, J., & Iwarsson, S. (2006). Homeward bound: Introducing a four-domain model of perceived housing in very old age. <i>Journal of Environmental Psychology</i> , 26(3), 187-201.<br><a href="https://doi.org/10.1016/j.jenvp.2006.07.002">https://doi.org/10.1016/j.jenvp.2006.07.002</a> |
|                            |                                 | 5  | (61d-i) Items adapted from Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press  |
| Q66 j-p                    | Neighbourhood qualities         | 7  | (61j-p) Items from Elderly Accommodation Counsel (EAC). www.Housing Care.org. Chosen in regard to important qualities identified by: Buckenberger, C. (2012). Meanings of housing qualities in suburbia: empirical evidence from Auckland, New Zealand. <i>Journal of Housing and the Built Environment</i> , 27(1), 69-88.                                 |
| Q67-69                     | Housing condition               | 3  | Heywood, F., Oldman, C., & Means, R. (2002). <i>Housing and Home in Later Life</i> . Milton Keynes: Open University Press   |
| Q70                        | Neighbourhood trust             | 6  | 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. <i>Environment and Planning A: Economy and Space</i> , 35(8), 1459-1475.<br>10.1068/a35257   |
| Q71-72                     | COVID-19(work)                  | 11 | HART  |
| Q73                        | COVID-19(Govt. Assistance)      | 2  | CFC   |
| <b>WORK AND RETIREMENT</b> |                                 |    |   |
| Q74                        | Retirement age                  | 1  |   |

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| Q75    | Hours paid employment                          | 1 | HWR/NZLSA  |
| Q76-77 | Preferred and current work                     | 2 | Grant Scobie, New Zealand Treasury   |
| Q78    | Job Search strategy                            | 2 | 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:https://doi.org/10.1016/j.joep.2004.04.001.   |
| Q79-81 | 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.   |
| Q82a   | Job satisfaction                               | 1 | from Brayfield et al., 1951  |
| Q82b   | 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.  |
| Q82c   | 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   |
| Q82d   | Job stress index                               | 1 | HWR  |
| Q82e   | 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.  |
| Q83-91 | Work Ability Index (without chronic illnesses) | 9 | Schouten, L. S., Bültmann, U., Heymans, M. W., Joling, C. I., Twisk, J. W. R., & 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. |

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|     |  |   | <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>  |
| Q92 | 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> |
| Q93 | 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>   |
| Q94 | 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>   |

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| Q96 | 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> |
| Q97 | Perceived adequacy of available flexible work arrangements | 1  | Health and Ageing Research Team   |
| Q95 | Work Related Stress (Effort-Rewards Imbalance Scale)       | 16 | <p>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.</p>   |
| Q98 | Organisational Commitment                                  | 7  | <p>Jaros, S. (2007). Meyer and Allen model of organizational commitment: Measurement issues. <i>The Icfai Journal of Organizational Behavior</i>, 6(4), 7-25.</p>   |
| Q99 | Utrecht Work Engagement Scale (UWES-9)                     | 9  | <p>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.</p>  |

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| Q100     | Availability of Training               | 3   | Taylor P, Urwin P. (2001) Age and Participation in Vocational Education and Training. <i>Work, Employment and Society</i> , 15(4):763-779.<br>doi: <a href="https://doi.org/10.1177/095001701400438198">10.1177/095001701400438198</a>  |
| Q101     | Training Perceptions                   | 9   | 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.  |
| Q102-103 | 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.<br><a href="https://doi.org/10.1108/IJM-01-2014-0005">https://doi.org/10.1108/IJM-01-2014-0005</a> |
| Q104,106 | 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.   |
| Q105     | I can financially afford to retire now | 1   | Adams, G.A. (1999) Career-related variables and planned retirement age: An extension of Beehr's model. <i>Journal of Vocational Behavior</i> , 55, 221-235.<br>AND Adams, G.A. & Beehr, T.A. (1998). Turnover and Retirement: a comparison of their similarities and differences. <i>Personnel Psychology</i> , 51, 643-665.                            |



| YOUR FINANCIAL WELLBEING |   |     |   |
|--------------------------|---|-----|---|
| Q107-109                 | Personal and household income, superannuation               | 4   | NZ Census   |
| Q110                     | Superannuation and Kiwisaver                                | 10  | Health and Ageing Research Team, CFFC   |
| Q111-116                 | 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> |
| Q117                     | 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.  |
| Q118                     | COVID (Econ. Wellbeing)                                     | 1   | HART  |
| YOUR PERSONAL SITUATION  |   |     |   |
| Q119 -Q123, Q127         | Gender, sexuality, DOB, marital status, education, religion | 5   | NZ Census   |
| Q128-142                 | Centrality of religiosity                                   | 13  | Huber, S., & Huber, O. W. (2012). The centrality of religiosity scale (CRS). <i>Religions</i> , 3(3), 710-724.  |
| Q124                     | Household composition                                       | 1   | NZ Census   |
| Q125                     | Ethnicity   | 2   | NZ Census   |

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| Q126                           | Where were you born? | 2  |   |
| <b>MAORI CULTURAL IDENTITY</b> |                      |    |   |
| Q143                           | Māori language       | 1  | Te Hoe Nuku Roa Study   |
| Q144                           | MMM-ICE3             | 30 | Houkamau, C. A., Sibley, C. G., & Henare, M. TE RANGAHAU O TE TUAKIRI MĀORI ME NGĀ WAIARO Ä-PŪTEA   THE MĀORI IDENTITY AND FINANCIAL ATTITUDES STUDY (MIFAS). |