

Appendix 2: Conditions of Use Associated with Scales, Tests and Measures in the CLSA

This document outlines the Conditions of Use associated with certain scales, tests and measures (Modules) included in the Canadian Longitudinal Study on Aging (CLSA). If you have been approved to use CLSA Data, it is your responsibility to respect the associated Conditions of Use, as per Section 8 of your CLSA Access Agreement. Should you have any questions, you can contact us via access@clsa-elcv.ca.

Modules	Condition of Use Information
Cognition (COG)	
<i>Mental Alternation Test (MAT)</i>	<p>Cite:</p> <p>Teng, E. The Mental Alternations Test (MAT). <u>The Clinical Neuropsychologist</u>, 1995, 9, p. 287.</p>
<i>Stroop Neuropsychological Screening Test© (Victoria)</i>	<p>Cite (for English version):</p> <p>[1] Angela K. Troyer, Larry Leach & Esther Strauss (2006) Aging and Response Inhibition: Normative Data for the Victoria Stroop Test, <i>Aging, Neuropsychology, and Cognition</i>, 13:1, 20-35, DOI: 10.1080/138255890968187</p> <p>[2] Bayard, S., Erkes, J., Moroni, C. & CPCN-LR (2011). Victoria Stroop Test: normative data in a sample group of older people and the study of their clinical applications in the assessment of inhibition in Alzheimer's disease. <i>Archives of Clinical Neuropsychology</i>, 26(7), 653-661.</p> <p>Cite (for French version):</p> <p>[1] Moroni, C., & Bayard, S. (2009). Processus d'inhibition: quelle est leur évolution après 50 ans? <i>Psychologie & NeuroPsychiatrie du vieillissement</i>, 7(2), 121-129.</p> <p>[2] Bayard, S., Erkes, J., Moroni, C. & CPCN-LR (2009). Test du Stroop Victoria-Adaptation francophone. Collège des Psychologues Cliniciens spécialisés en Neuropsychologie du Languedoc Roussillon (CPCN-LR), Gignac, France</p> <p>[3] Bayard, S., Erkes, J., Moroni, C. & CPCN-LR (2011). Victoria Stroop Test: normative data in a sample group of older people and the study of their clinical applications in the assessment of inhibition in Alzheimer's disease. <i>Archives of Clinical Neuropsychology</i>, 26(7), 653-661.</p>

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Lifestyle & Behaviour	
<p><i>Nutrition (NUT)</i></p> <p><i>(Short Diet Questionnaire – SDQ)</i></p>	<p>Cite:</p> <p>Shatenstein B, Payette H. Evaluation of the Relative Validity of the Short Diet Questionnaire for Assessing Usual Consumption Frequencies of Selected Nutrients and Foods. <i>Nutrients</i> 2015, 7, 6362-6374; doi:10.3390/nu7085282.</p> <p>Acknowledge:</p> <p>The development, testing and validation of the Short Diet Questionnaire (SDQ) were carried out among NuAge study participants as part of the Canadian Longitudinal Study on Aging (CLSA) Phase II validation studies, CIHR 2006-2008.</p> <p>The NuAge study was supported by the Canadian Institutes for Health Research (CIHR), Grant number MOP-62842, and the Quebec Network for Research on Aging, a network funded by the Fonds de Recherche du Québec-Santé.</p> <p><i>Please refer to <u>Nutrition: Short Diet Questionnaire (NUT) Module</u> document under Data Support Documentation section of the CLSA website for additional information.</i></p>
<p><i>Nutritional Risk (NUR)</i></p> <p><i>(AB SCREEN™ II)</i></p>	<p>Acknowledge:</p> <p>The AB SCREEN™ II assessment tool is owned by Dr. Heather Keller. Use of the AB SCREEN™ II assessment tool was made under license from the University of Guelph.</p> <p><i>Please refer to <u>Derived Variables – Nutritional Risk (NUR)</u> document under the Data Support Documentation section of the CLSA website for additional information.</i></p>
Psychological Health	
<p><i>Psychological Distress (K10)</i></p> <p><i>(Kessler 10-item Psychological Distress Scale)</i></p>	<p>Cite:</p> <p>Kessler, R.C., Barker, P.R., Colpe, L.J., Epstein, J.F., Gfroerer, J.C., Hiripi, E., Howes, M.J, Normand, S-L.T., Manderscheid, R.W., Walters, E.E., Zaslavsky, A.M. (2003). Screening for serious mental illness in the general population. <i>Archives of General Psychiatry.</i> 60(2), 184-189.</p> <p>Advise:</p> <p>The authors request that users send them citations to all publications that use the scale (ronkadm@hcp.med.harvard.edu).</p> <p><i>Please refer to the <u>Derived Variable – Psychological Distress (K10)</u> document under the Data Support Documentation section of the CLSA website for additional information.</i></p>

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<p><i>Satisfaction with Life Scale (SLS)</i></p> <p><i>(Satisfaction with Life Scale – SWLS)</i></p>	<p>Cite:</p> <p>Diener E, Emmons RA, Larsen RJ, Griffin S. (1985). The satisfaction with life scale. <i>J Pers Assess</i>, 49(1), 71-75.</p> <p><i>Please refer to the <u>Derived Variables – Satisfaction With Life (SLS)</u> document under the Data Support Documentation section of the CLSA website for additional information.</i></p>
Social Health	
<p><i>Transportation, Mobility and Migration (TRA)</i></p>	<p>Acknowledge:</p> <p>“This research used data from the CLSA supported in part by the Ontario Ministry of Transportation”.</p> <p>This statement must be included in addition to the acknowledgements required by the CLSA, as described in the CLSA Publication and Promotion Policy.</p> <p><i>Please refer to the <u>Transportation, Mobility, Migration (TRA) Module</u> document under the Data Support Documentation section of the CLSA website for additional information.</i></p>
Physical Assessments I	
<p><i>Life Space Index (LSI)</i></p> <p><i>(Life-Space Assessment – LSA)</i></p>	<p>Cite:</p> <p>Stalvey, B., Owsley, C., Sloane, M.E., Ball, K. (1999) The Life Space Questionnaire: A measure of the extent of mobility of older adults. <i>Journal of Applied Gerontology</i> 18: 479-498.</p>
Linked Data	
<p><i>Nitrogen Dioxide</i></p>	<p>Cite:</p> <p>Hystad P, Setton E, Cervantes A, Poplawski K, Deschenes S, Brauer M, van Donkelaar A, Lamsal L, Martin R, Jerrett M, Demers P. 2011. Creating National Air Pollution Models for Population Exposure Assessment in Canada. <i>Environmental Health Perspectives</i>, 119(8), 1123-1129; doi: 10.14288/ehp.0220728</p> <p><i>Please refer to the <u>Air Pollution & Meteorological Exposure Data Document</u> under the Data Support Documentation section of the CLSA website for Conditions of Use.</i></p>
<p><i>Sulfur Dioxide</i></p>	<p>Cite:</p> <p>[1] Environment and Climate Change Canada, 2017. Air Quality Research Division, Toronto, Canada. Data files: OMI_Ground-Level_SO2_NA_2005.nc to OMI_Ground-Level_SO2_NA_2015.nc inclusive, generated 2017-07-05.</p>

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	<p>[2] McLinden, C. A., Fioletov, V., Boersma, K. F., Kharol, S. K., Krotkov, N., Lamsal, L., Makar, P. A., Martin, R. V., Veefkind, J. P., and Yang, K.: Improved satellite retrievals of NO₂ and SO₂ over the Canadian oil sands and comparisons with surface measurements, <i>Atmos. Chem. Phys.</i>, 14, 3637-3656, doi:10.5194/acp-14-3637-2014, 2014.</p> <p>[3] Kharol, S. K., McLinden, C. A., Sioris, C. E., Shephard, M. W., Fioletov, V., van Donkelaar, A., Philip, S., and Martin, R. V.: OMI satellite observations of decadal changes in ground-level sulfur dioxide over North America, <i>Atmos. Chem. Phys.</i>, 17, 5921-5929, doi:10.5194/acp-17-5921-2017, 2017.</p> <p>[4] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015.</p> <p>Acknowledge:</p> <p>SO₂ metrics indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium).</p> <p><i>Please refer to the <u>Annual Sulfur Dioxide dataset documentation</u> available under the <u>Data</u> section of the <u>CANUE website</u> (www.canue.ca) for additional information.</i></p>
Ozone	<p>Cite:</p> <p>[1] Environment and Climate Change Canada, 2017. Air Quality Research Division, Toronto, Canada. Data files: CHRONOS_Ground-Level_O3_NA_2002.nc to CHRONOS_Ground-Level_O3_NA_2009.nc inclusive, generated July 2017.</p> <p>[2] Environment and Climate Change Canada, 2017. Air Quality Research Division, Toronto, Canada. Data files: GEMMACH_Ground-Level_O3_NA_2010.nc to GEMMACH_Ground-Level_O3_NA_2015.nc inclusive, generated July 2017.</p> <p>[3] Robichaud A, Ménard R. Multi-year objective analyses of warm season ground-level ozone and PM 2.5 over North America using real-time observations and Canadian operational air quality models. <i>Atmospheric Chemistry and Physics</i>. 2014 Feb 17; 14(4):1769-800.</p> <p>[4] Robichaud A, Ménard R, Zaitseva Y, Anselmo D. Multi-pollutant surface objective analyses and mapping of air quality health index over North America. <i>Air Quality, Atmosphere & Health</i>. 2016 Nov 1;9(7):743-59.</p>

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	<p>Acknowledge:</p> <p>Calculated ozone metrics indexed to DMTI Spatial Inc. postal codes were provided by CANUE (Canadian Urban Environmental Health Research Consortium)</p> <p><i>Please refer to the <u>Annual Ozone</u> dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>
<i>Fine Particulates</i>	<p>Cite:</p> <p>[1] van Donkelaar, A., R. V. Martin, et al. (2019). Regional Estimates of Chemical Composition of Fine Particulate Matter Using a Combined Geoscience-Statistical Method with Information from Satellites, Models, and Monitors. <i>Environmental Science & Technology</i>, 2019, doi:10.1021/acs.est.8b06392.</p> <p>[2] Boys, B.L., Martin, R.V., van Donkelaar, A., MacDonell, R., Hsu, N.C., Cooper, M.J., Yantosca, R.M., Lu, Z., Streets, D.G., Zhang, Q., Wang, S., Fifteen-year global time series of satellite-derived fine particulate matter, <i>Environ. Sci. Technol</i>, 10.1021/es502113p, 2014.</p> <p>[3] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015</p> <p>Acknowledge:</p> <p>PM2.5 metrics, indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium)</p> <p><i>Please refer to the <u>Annual Fine Particulates: NEW VERSION</u> dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>
<i>Landsat Greenness</i>	<p>Cite:</p> <p>[1] Gorelick, N., Hancher, M., Dixon, M., Ilyushchenko, S., Thau, D., & Moore, R. (2017). Google Earth Engine: Planetary-scale geospatial analysis for everyone. <i>Remote Sensing of Environment</i>. Volume 202, Pgs 18-27. https://doi.org/10.1016/j.rse.2017.06.031</p> <p>[2] USGS Landsat 5 TM TOA Reflectance (Orthorectified), 1984 to 2011, accessed July 2017 from https://explorer.earthengine.google.com/#detail/LANDSAT%2FLT5_L1T_TOA.</p>

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	<p>[3] USGS Landsat 8 TOA Reflectance (Orthorectified), 2013 to 2017, accessed July 2017 from https://explorer.earthengine.google.com/#detail/LANDSAT%2FLC8_L1T_TOA.</p> <p>[4] Landsat 5 TM Annual Greenest-Pixel TOA Reflectance Composite, 1984 to 2012, accessed July 2017 from https://explorer.earthengine.google.com/#detail/LANDSAT%2FLT5_L1T_ANNUAL_GREENEST_TOA.</p> <p>[5] Landsat 8 Annual Greenest-Pixel TOA Reflectance Composite, 2013 to 2015, accessed July 2017 from https://explorer.earthengine.google.com/#detail/LANDSAT%2FLC8_L1T_ANNUAL_GREENEST_TOA.</p> <p>[6] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015</p> <p>Acknowledge:</p> <p>NDVI metrics, indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium)</p> <p><i>Please refer to the Annual Landsat NDVI (greenness) dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>
<i>Material and Social Deprivation Indices</i>	<p>Cite:</p> <p>[1] Pampalon, Robert, et al. "An Area-Based Material and Social Deprivation Index for Public Health in Québec and Canada." <i>Canadian Journal of Public Health / Revue Canadienne De Santé Publique</i>, vol. 103, 2012, pp. S17–S22. JSTOR, JSTOR, https://www.jstor.org/stable/41995684.</p> <p>[2] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015</p> <p>Acknowledge:</p> <p>[1] Material and Social Deprivation Indices (MSDI), indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium);</p> <p>[2] Material and Social Deprivation Indices (MSDI) used by CANUE were provided by: Institut National de Santé Publique du Québec (INSPQ). Indiceses were compiled for 1991, 1996, 2001 and 2011 Census data by the Bureau d'information et d'études en santé des</p>

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	<p>populations (BIESP). [https://www.inspq.gc.ca/en/expertise/information-management-and-analysis/deprivation-index]</p> <p><i>Please refer to the <u>Material and Social Deprivation Indices</u> dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>
Nighttime Light	<p>Cite:</p> <p>[1] Gorelick, N., Hancher, M., Dixon, M., Ilyushchenko, S., Thau, D., & Moore, R. (2017). Google Earth Engine: Planetary-scale geospatial analysis for everyone. Remote Sensing of Environment.</p> <p>[2] Defense Meteorological Program (DMSP) Operational Line-Scan System (OLS) Nighttime Lights Time Series Version 4. Accessed July 2017: https://explorer.earthengine.google.com/#detail/NOAA%2FDMSP-OLS%2FNIGHTTIME_LIGHTS</p> <p>[3] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015</p> <p>Acknowledge:</p> <p>DMSP-OLS metrics, indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium)</p> <p><i>Please refer to the <u>Annual Nighttime Light</u> dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>
Weather Indicators	<p>Cite:</p> <p>[1] Customized spatial climate data files prepared for the Canadian Urban Environmental Health Research Consortium by the Canadian Forest Service of Natural Resources Canada, October 2017.</p> <p>[2] CanMap Postal Code Suite v2015.3. [computer file] Markham: DMTI Spatial Inc., 2015.</p> <p>Acknowledge:</p> <p>Weather-related indicators, based on custom data from Natural Resources Canada, were indexed to DMTI Spatial Inc. postal codes and provided by CANUE (Canadian Urban Environmental Health Research Consortium).</p> <p><i>Please refer to the <u>Annual Weather</u> dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</i></p>

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<p><i>Canadian Active Living Environments (Can-ALE) Data</i></p>	<p>Cite:</p> <p>[1] Ross, N., Wasfi, R., Herrmann, T., and Gleckner, W., 2018. Canadian Active Living Environments Database (Can-ALE) User Manual & Technical Document. Geo-Social Determinants of Health Research Group, Department of Geography, McGill University.</p> <p>[2] CanMap Postal Code Suite v2016.3. [Computer file] Markham: DMTI Spatial Inc., 2016</p> <p>Acknowledge:</p> <p>Canadian Active Living Environments Index (Can-ALE), indexed to DMTI Spatial Inc. postal codes, were provided by CANUE (Canadian Urban Environmental Health Research Consortium)</p> <p><i>Please refer to the <u>Active Living Environments Indices dataset documentation available under the Data section of the CANUE website (www.canue.ca) for additional information.</u></i></p>