

# A historical analysis of the evolution of active travel behaviour in Canada

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## Abstract

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## Appendix A

After performing the Kruskal-Wallis test (to assess whether there was a statistically significant difference between the distributions of empirical travel time values, considering the time differences for each destination and the weight of each episode) and the pairwise Wilcoxon test, we were able to identify the destinations where a statistically significant difference was detected. For both active transportation modes, the possible destinations had at least two year with statistically significant difference in travel times (p-value < 0.05, Table 1).

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Table 1: P-values of the pairwise Wilcoxon test.

Mode	Destination	Year	1992	1998	2005	2010	2015
Walking	Home	1998	0.00e+00				
	Home	2005	0.00e+00	0.00e+00			
	Home	2010	0.00e+00	0.00e+00	0.00e+00		
	Home	2015	0.00e+00	0.00e+00	0.00e+00	0.00e+00	
	Home	2022	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
	Work or school	1998	7.09e-211				
	Work or school	2005	0.00e+00	0.00e+00			
	Work or school	2010	0.00e+00	0.00e+00	0.00e+00		
	Work or school	2015	0.00e+00	0.00e+00	0.00e+00	0.00e+00	
	Work or school	2022	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
	Grocery store	2010			0.00e+00		
	Grocery store	2015			0.00e+00	0.00e+00	
	Grocery store	2022			0.00e+00	0.00e+00	0.00e+00
	Neighbourhood	2022					0.00e+00
	Sport area	2022					0.00e+00
	Outdoors	2010			4.33e-29		
	Outdoors	2015			0.00e+00	0.00e+00	
	Outdoors	2022			0.00e+00	0.00e+00	0.00e+00
	Restaurant	2010			2.09e-295		
	Restaurant	2015			0.00e+00	0.00e+00	
	Restaurant	2022			0.00e+00	0.00e+00	1.11e-179
	Other's home	1998	0.00e+00				
	Other's home	2005	0.00e+00	1.79e-83			
	Other's home	2010	0.00e+00	0.00e+00	0.00e+00		
	Other's home	2015	0.00e+00	0.00e+00	0.00e+00	0.00e+00	
	Other's home	2022	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
	Health clinic	2022					4.12e-216
	Cultural venues	2010			4.52e-273		
	Cultural venues	2015			0.00e+00	0.00e+00	
	Cultural venues	2022			0.00e+00	0.00e+00	0.00e+00
	Place of worship	2010			0.00e+00		
	Place of worship	2015			0.00e+00	0.00e+00	
	Place of worship	2022			0.00e+00	0.00e+00	3.76e-18
	Business	2022					1.18e-305
Cycling	Grocery store	2010			0.00e+00		
	Grocery store	2015			0.00e+00	0.00e+00	
	Grocery store	2022			0.00e+00	0.00e+00	0.00e+00
	Home	1998	1.08e-230				
	Home	2005	1.45e-24	0.00e+00			
	Home	2010	0.00e+00	0.00e+00	0.00e+00		
	Home	2015	0.00e+00	8.44e-236	0.00e+00	0.00e+00	
	Home	2022	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
	Work or school	1998	0.00e+00				
	Work or school	2005	9.62e-228	0.00e+00			
	Work or school	2010	1.30e-221	0.00e+00	0.00e+00		
	Work or school	2015	0.00e+00	0.00e+00	0.00e+00	0.00e+00	
	Work or school	2022	0.00e+00	0.00e+00	0.00e+00	0.00e+00	0.00e+00
	Health clinic	2022					0.00e+00
	Restaurant	2010			1.03e-106		
	Restaurant	2015			0.00e+00	0.00e+00	
	Restaurant	2022			0.00e+00	0.00e+00	0.00e+00
	Sport area	2022					0.00e+00
	Outdoors	2010			0.00e+00		
	Outdoors	2015			0.00e+00	0.00e+00	
	Outdoors	2022			0.00e+00	0.00e+00	0.00e+00
	Other's home	1998	2.60e-122				
	Other's home	2005	0.00e+00	0.00e+00			
	Other's home	2010	6.63e-41	0.00e+00	3.60e-287		
	Other's home	2015	4.03e-81	0.00e+00	5.62e-266	1.84e-148	
	Cultural venues	2010			2.98e-142		
	Cultural venues	2015			0.00e+00	9.65e-01	