
transportationtomorrow
2011 | SURVEY AREA SUMMARY

**2011 TRANSPORTATION TOMORROW SURVEY
CITY OF HAMILTON
SUMMARY BY WARDS**

ACKNOWLEDGEMENTS

The 2011 Transportation Tomorrow Survey (TTS) was conducted on behalf of 23 local, regional, provincial and transit operating agencies in the Greater Toronto and surrounding regions. The members of the TTS Survey Technical Committee are represented by the following agencies:

City of Barrie	Metrolinx
City of Brantford	Ministry of Transportation, Ontario
City of Guelph	Regional Municipality of Durham
City of Hamilton	Regional Municipality of Halton
City of Kawartha Lakes	Regional Municipality of Niagara
City of Orillia	Regional Municipality of Peel
City of Peterborough	Regional Municipality of Waterloo
City of Toronto	Regional Municipality of York
County of Brant	Toronto Transit Commission
County of Dufferin	Town of Orangeville
County of Peterborough	
County of Simcoe	
County of Wellington	

This report was prepared for the Transportation Information Steering Committee (TISC) by the Data Management Group (DMG) at the Department of Civil Engineering, University of Toronto. The Steering Committee, formerly known as the Toronto Area Transportation Planning Data Collection Steering Committee (TATPDCSC), which also conducted the 1986, 1991, 1996, 2001 and 2006 TTS, is represented by the Ontario Ministry of Transportation, Cities of Toronto and Hamilton, Regional Municipalities of Durham, Halton, Peel and York, Metrolinx and the Toronto Transit Commission. The contributions of the above supporting agencies to the production of this report and to the ongoing work of the DMG are gratefully acknowledged.

FURTHER INFORMATION

The Transportation Tomorrow Survey (TTS) are parts of an ongoing data collection program by the Transportation Information Steering Committee (TISC). The survey data (2011, 2006, 2001, 1996, 1991 and 1986) are currently under the care of the Data Management Group. This group is responsible for maintaining the TTS databases and making available appropriate travel information for any urban transportation study in the area. Requests for information from the TTS, or enquiries related to the contents of this report, should be directed to the address below.

Data Management Group
Department of Civil Engineering
University of Toronto
35 St. George Street
Toronto, Ontario
M5S 1A4
Tel: (416) 978-3916
Fax: (416) 978-3941
Email: info@dmg.utoronto.ca
Web: www.dmg.utoronto.ca

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TRANSPORTATION TOMORROW SURVEY 2011

BACKGROUND

The first attempt at a comprehensive travel survey was the Metropolitan Toronto and Region Transportation Study (MTARTS), which in 1964 conducted the first comprehensive urban travel survey using home interviews at a sample of approximately 3% of the households in the Toronto area. At that time, the survey area included most of the urban area. Subsequently, the urban area expanded and was sub-divided into a collection of regional jurisdictions. Each jurisdiction then undertook various travel surveys.

Urban travel on the road and transit system does not respect jurisdictional boundaries. A committee established to discuss common transportation issues at the time of jurisdictional changes recognized this limitation. The first Transportation Tomorrow Survey (TTS) initiated by the coordinating committee (Toronto Area Transportation Planning Data Collection Steering Committee) was undertaken in 1986 when it was recognized that the fragmented approach to collecting urban travel information was not providing a complete representation.

The extensive use of the original TTS data led to the establishment of periodic updates and consequently a Transportation Tomorrow Survey (TTS) has been conducted every five years since 1986 using essentially the same survey method.

The 2011 Transportation Tomorrow Survey (TTS) is the sixth in a series of comprehensive travel surveys conducted every five years in the Greater Toronto and Hamilton Area (GTHA) and surrounding areas. The TTS contains detailed demographic information on all members of a surveyed household and a ledger of travel information for an entire weekday.

AREA OF COVERAGE

As the urban area surrounding Toronto continued to grow and surrounding communities became less isolated, it became apparent a wider area of coverage would be beneficial.

The initial TTS surveys in 1986 and 1991 were initiated by government agencies in the GTHA and the area of coverage reflected that initiative. However, because of the growing urban transportation interaction between the GTHA and the surrounding areas, other surrounding communities were invited to participate in later surveys.

PARTICIPATING JURISDICTIONS																				
	City of Hamilton	City of Toronto	Regional Municipality of Durham	Regional Municipality of Halton	Regional Municipality of Peel	Regional Municipality of York	City of Kawartha Lakes	City of Barrie	City of Brantford	City of Guelph	City of Orillia	City of Peterborough	County of Brant	County of Dufferin	County of Peterborough	County of Simcoe	County of Wellington	Regional Municipality of Niagara	Regional Municipality of Waterloo	Town of Orangeville
2011 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	p	•	p	•	•	•
2006 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	p	•	p	•	•	•
2001 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	p	•	p	•	•	•
1996 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	p	p	p	•	•	•
1991 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1986 TTS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

p: part of jurisdiction

REPORT CONTENT

The purpose of this report is to summarize the 2011 Transportation Tomorrow Survey data at the Ward level for the City of Hamilton. The summary is presented in tabular format at different levels of detail, namely the Greater Toronto and Hamilton Area, the City of Hamilton and its wards. The information presented includes socio-demographic and travel characteristics. In addition to presenting the magnitude of the trips coming into and leaving an area, the summary tables also describe travel characteristics such as travel purpose, trip start time, travel distance and travel mode choice.

Information in this report is based on Version 1.0 of the 2011 TTS database.

This report provides information on demographic and travel characteristics. Note that trips made by residents include trips into and out of the GTHA and that trips made to the area include only trips made by GTHA residents. In total there are 15 wards in the City of Hamilton.

For more historical TTS data please refer to the 2011 reports, “2011, 2006, 1996 and 1986 Travel Survey Summaries for the Greater Toronto and Hamilton Area” and the “2011, 2006, 1996 and 1986 Travel Survey Summaries”.

To reflect the fact that all numbers presented in this report are estimates based on expanded survey data, all numeric figures are rounded. Totals and subtotals are rounded to the nearest 100 for all data presented in this report. All percentages are rounded to the nearest integer. No information is presented for categories that have less than four observations or survey records. These categories are denoted by an asterisk (*).

Invalid survey responses are dealt with in two ways. The response is grouped under the “other” category if one is available (travel mode, for example). Otherwise, invalid responses are distributed proportionately (based on the valid responses) between the available categories.

A definition of terms is displayed interactively if the pdf file is downloaded. Simply hold the cursor over the variable in question and a pop-up box will display the information.

For complete and detailed coverage of all aspects of the surveys, please refer to the reports available at:

<http://www.dmg.utoronto.ca/reports/ttsreports.html>

2011 TRANSPORTATION TOMORROW SURVEY AREA



AREA SUMMARIES

GREATER TORONTO AND HAMILTON AREA



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
2,366,100	63%	9%	29%	19%	31%	20%	20%	11%	13%	40%	36%	8%	2%	2.8	1.5	1.8	1.5	5.8

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	6,577,200	12%	6%	14%	29%	26%	13%			39.4	2.4	0.75	3,187,500	42%	7%	5%	25%	70%
											Female							
											3,389,700	31%	11%	4%	23%	62%	13%	

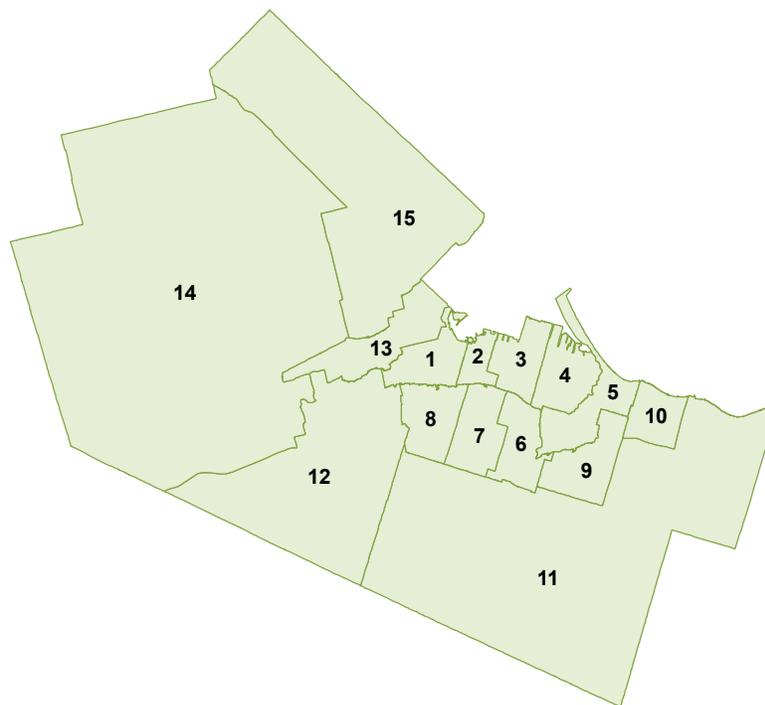
TRIPS MADE BY THE RESIDENTS OF GTHA

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	3,212,100	23.6%	46%	21%	22%	11%	58%	13%	14%	3%	8%	3%	7.2	3.2	7.7	30.1	
24 Hours	13,617,800		31%	12%	41%	16%	62%	16%	13%	2%	6%	2%	5.5	4.0	6.8	30.5	

TRIPS MADE TO GTHA

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	3,168,200	23.5%	51%	22%	6%	21%	58%	13%	15%	3%	8%	3%	7.2	3.2	7.7	30.1	
24 Hours	13,467,100		18%	7%	42%	33%	62%	16%	13%	2%	6%	2%	5.5	4.0	6.8	30.5	

CITY OF HAMILTON



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
204,900	68%	8%	24%	23%	35%	17%	16%	8%	14%	40%	35%	8%	3%	2.5	1.3	1.7	1.5	5.4

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	519,800	12%	6%	13%	26%	27%	16%			40.7	2.4	0.72	252,600	39%	7%	4%	22%	70%
											Female							
										267,200	28%	12%	3%	21%	63%	9%		

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON

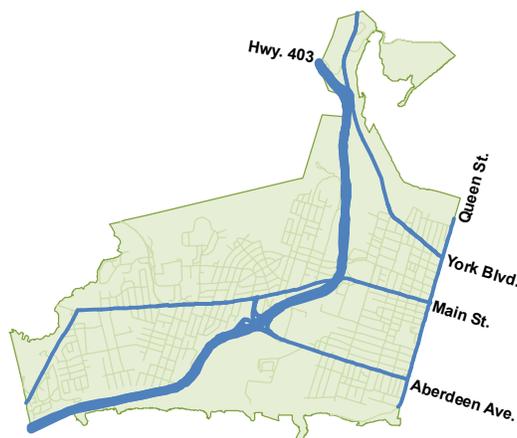
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	231,600	21.0%	45%	22%	22%	11%	65%	12%	8%	1%	8%	6%	6.5	3.4	4.3	61.3	
24 Hours	1,106,500		28%	11%	44%	18%	67%	17%	7%	1%	5%	3%	5.1	3.9	4.1	60.8	

TRIPS MADE TO CITY OF HAMILTON

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	197,500	19.5%	42%	27%	7%	24%	61%	13%	9%	0%	10%	7%	5.3	3.2	4.6	30.2	
24 Hours	1,012,500		13%	7%	45%	36%	66%	17%	8%	0%	6%	3%	4.7	3.7	4.2	60.0	

CITY OF HAMILTON

WARD 1



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
13,900	63%	2%	35%	28%	36%	17%	12%	6%	18%	48%	27%	5%	1%	2.4	1.2	1.5	1.2	5.1

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	32,800	10%	5%	14%	26%	29%	16%			42.2	2.4	0.70	16,100	37%	9%	4%	25%	68%
											Female							
										16,700	29%	12%	4%	22%	62%	15%		

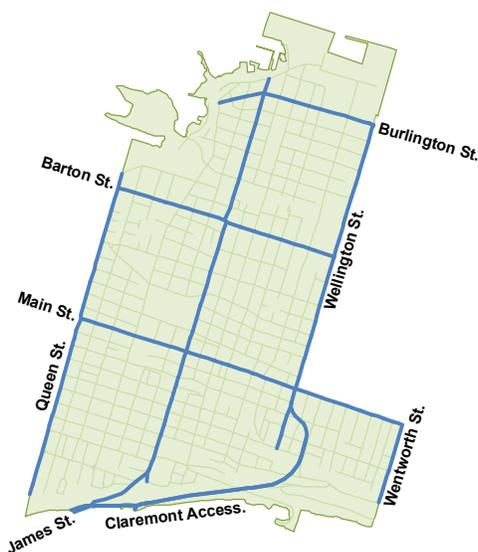
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 1

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	14,200	19.9%	47%	23%	19%	10%	56%	12%	9%	2%	19%	3%	5.9	2.7	2.9	61.3	
24 Hours	71,100		28%	13%	43%	17%	58%	17%	9%	1%	13%	2%	4.3	2.9	2.8	61.3	

TRIPS TO CITY OF HAMILTON - WARD 1

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	24,400	27.0%	36%	43%	2%	18%	48%	13%	22%	1%	10%	6%	6.3	4.6	7.9	35.4	
24 Hours	90,300		15%	19%	33%	33%	56%	16%	15%	1%	10%	3%	4.9	3.8	5.5	48.9	

CITY OF HAMILTON WARD 2



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
18,500	27%	1%	71%	48%	30%	9%	9%	4%	39%	47%	12%	1%	0%	1.9	0.9	1.1	0.8	3.5

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit							
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home										
	35,600	10%	4%	12%	31%	28%	15%				40.6	2.0	0.71				17,100	37%	8%	3%	19%	62%	14%
												Male					Female						
											18,500	25%	12%	3%	21%	51%	14%						

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 2

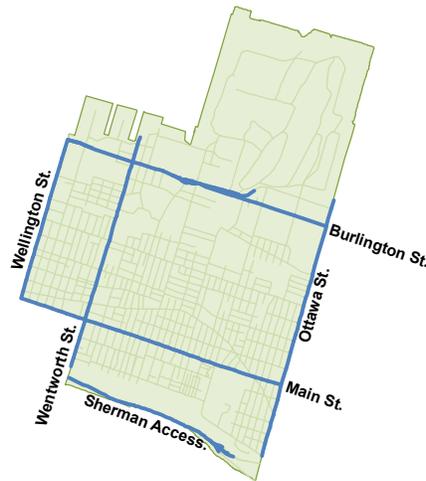
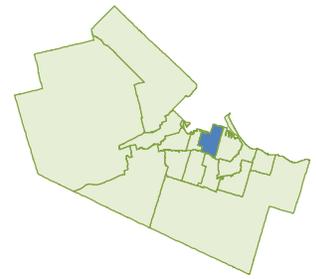
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	12,700	19.4%	50%	19%	20%	10%	49%	12%	17%	2%	18%	2%	5.1	2.3	3.4	58.4
24 Hours	65,300		30%	10%	41%	18%	52%	17%	16%	1%	12%	2%	3.6	3.5	3.1	58.4

TRIPS TO CITY OF HAMILTON - WARD 2

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	24,900	29.0%	66%	12%	4%	19%	62%	11%	16%	1%	10%	0%	6.0	4.7	4.4	21.1
24 Hours	86,000		26%	4%	31%	39%	56%	15%	17%	1%	10%	1%	4.9	4.1	3.6	58.2

CITY OF HAMILTON

WARD 3



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
16,700	71%	1%	28%	30%	34%	16%	12%	7%	29%	45%	21%	4%	1%	2.4	1.1	1.3	1.0	4.5

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	39,600	12%	6%	11%	29%	27%	16%			40.6	2.2	0.69	18,900	35%	8%	3%	19%	60%
											Female							
										20,700	26%	11%	3%	21%	47%	13%		

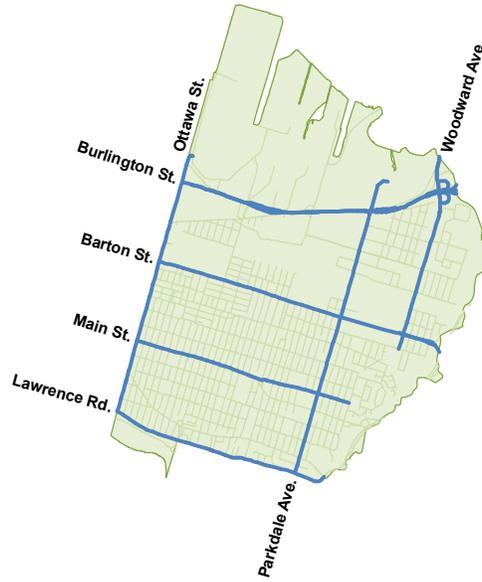
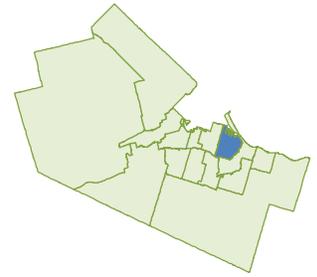
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 3

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	15,900	21.1%	39%	25%	25%	11%	56%	13%	15%	1%	12%	3%	4.2	3.5	3.1	57.4	
24 Hours	75,200		27%	13%	44%	16%	58%	16%	15%	1%	9%	2%	3.9	3.6	3.5	57.2	

TRIPS TO CITY OF HAMILTON - WARD 3

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	15,600	23.1%	54%	20%	7%	20%	65%	11%	10%	*	11%	3%	5.9	2.9	3.4	*	
24 Hours	67,500		18%	5%	46%	31%	60%	15%	12%	0%	9%	3%	4.5	3.6	3.5	57.9	

CITY OF HAMILTON WARD 4



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
15,300	78%	2%	19%	26%	37%	17%	13%	7%	19%	48%	28%	4%	1%	2.4	1.2	1.4	1.2	4.8

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	37,000	13%	5%	13%	30%	28%	11%			37.7	2.3	0.76	17,500	42%	5%	3%	18%	65%
											Female							
											19,600	30%	14%	2%	20%	55%	12%	

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 4

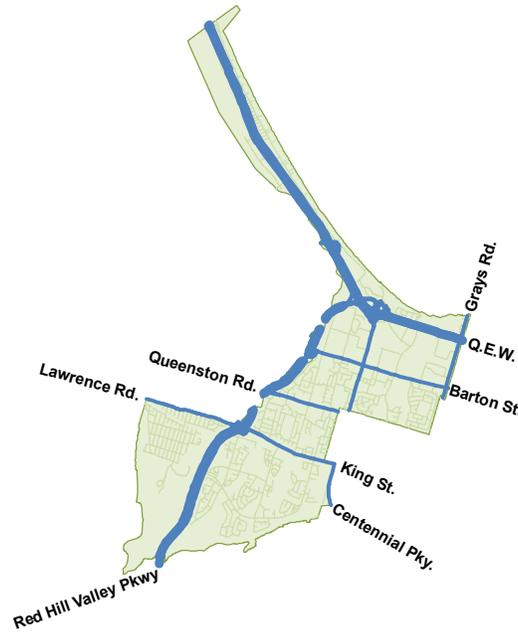
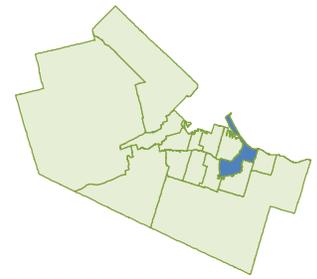
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	15,300	20.7%	50%	19%	21%	10%	61%	12%	13%	*	11%	3%	5.8	4.4	5.3	*
24 Hours	73,900		33%	9%	42%	16%	63%	16%	12%	0%	7%	2%	4.5	4.0	5.0	47.4

TRIPS TO CITY OF HAMILTON - WARD 4

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	12,400	18.4%	48%	21%	7%	23%	67%	11%	5%	*	15%	2%	5.4	2.5	3.7	*
24 Hours	67,400		16%	4%	46%	34%	65%	16%	9%	0%	8%	2%	4.3	3.4	4.2	47.4

CITY OF HAMILTON

WARD 5



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
15,000	45%	14%	40%	24%	34%	19%	16%	7%	17%	47%	29%	6%	2%	2.5	1.1	1.6	1.3	5.0

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	37,700	12%	5%	14%	26%	25%	18%			40.6	2.3	0.78	18,200	36%	7%	3%	22%	70%
											Female							
										19,500	24%	12%	2%	22%	58%	10%		

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 5

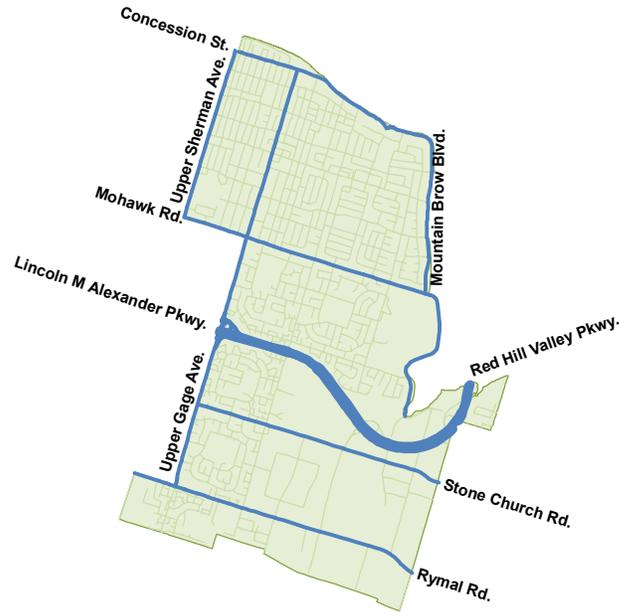
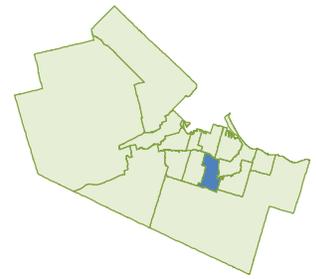
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	15,300	20.3%	44%	26%	22%	8%	60%	14%	13%	*	9%	4%	6.2	3.9	7.1	*	
24 Hours	75,700		29%	12%	42%	17%	62%	21%	10%	0%	5%	2%	4.5	3.7	7.1	50.7	

TRIPS TO CITY OF HAMILTON - WARD 5

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	13,600	18.3%	46%	27%	7%	20%	61%	12%	7%	*	10%	10%	5.8	2.5	3.2	*	
24 Hours	74,400		13%	5%	42%	39%	63%	20%	9%	*	5%	3%	4.3	3.5	5.2	*	

CITY OF HAMILTON

WARD 6



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
14,800	67%	10%	23%	24%	39%	16%	15%	7%	14%	46%	30%	8%	2%	2.4	1.2	1.6	1.4	5.4

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit							
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home										
	36,200	11%	5%	13%	25%	26%	19%				43.2	2.5	0.72				17,300	38%	7%	2%	20%	71%	9%
												Male					Female						
											18,900	29%	13%	3%	19%	63%	13%						

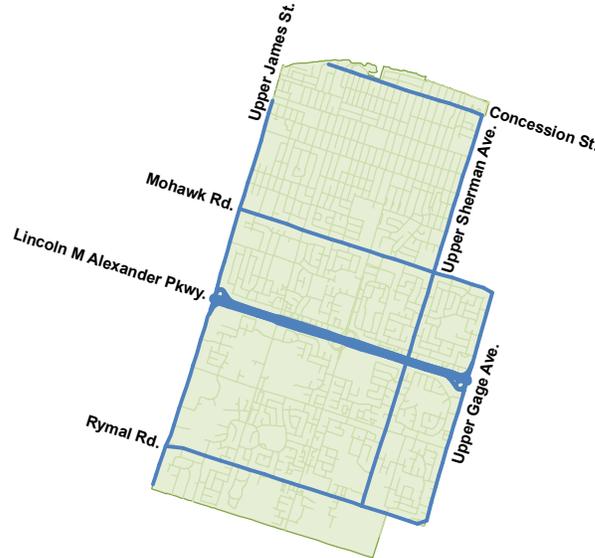
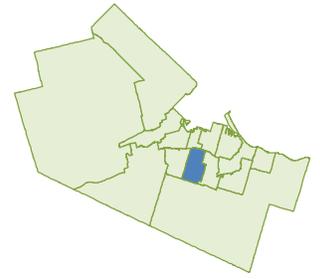
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 6

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	16,300	20.5%	43%	19%	26%	11%	65%	15%	9%	*	8%	3%	5.0	3.1	4.3	*
24 Hours	79,600		26%	9%	48%	16%	66%	20%	8%	0%	5%	2%	4.1	3.4	3.9	60.6

TRIPS TO CITY OF HAMILTON - WARD 6

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	11,100	17.2%	35%	29%	11%	25%	59%	14%	9%	*	11%	7%	4.4	3.0	3.7	*
24 Hours	64,400		9%	5%	52%	34%	66%	19%	7%	*	5%	2%	3.9	3.3	3.7	*

CITY OF HAMILTON WARD 7



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
22,500	76%	7%	17%	19%	33%	20%	17%	11%	12%	43%	37%	6%	2%	2.7	1.3	1.8	1.4	6.0

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
												Female						
61,500	12%	6%	16%	25%	26%	14%	38.9	2.5	0.71	30,200	38%	8%	2%	26%	68%	10%		
										31,300	29%	13%	3%	24%	61%	10%		

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 7

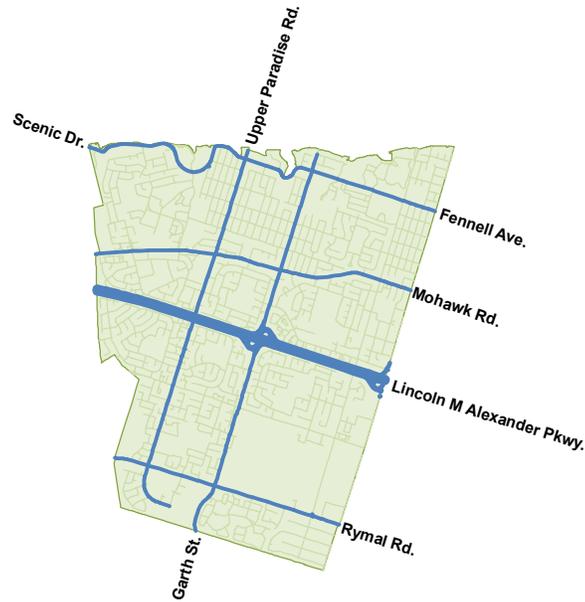
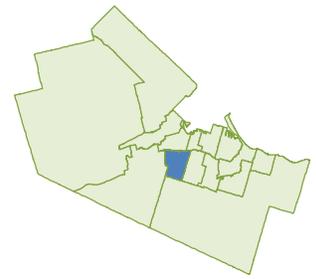
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	29,800	22.2%	38%	24%	25%	12%	60%	17%	11%	1%	7%	3%	4.3	3.1	3.9	62.2
24 Hours	134,100		26%	13%	45%	17%	63%	21%	9%	0%	5%	2%	3.8	3.1	3.8	62.1

TRIPS TO CITY OF HAMILTON - WARD 7

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	20,400	16.1%	31%	24%	11%	34%	62%	15%	5%	*	10%	7%	3.1	1.9	2.8	*
24 Hours	127,100		9%	4%	44%	43%	64%	21%	7%	0%	5%	2%	3.3	2.8	3.6	62.8

CITY OF HAMILTON

WARD 8



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
17,600	72%	16%	12%	17%	34%	21%	18%	10%	9%	41%	39%	8%	3%	2.7	1.4	1.8	1.6	5.9

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home			
	Male															
	Female															
48,200	13%	6%	14%	27%	24%	17%	39.1	2.5	0.73	23,500	39%	8%	3%	22%	71%	8%
										24,700	28%	13%	3%	21%	63%	8%

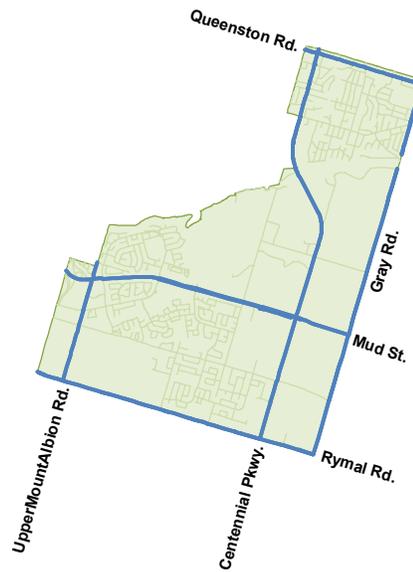
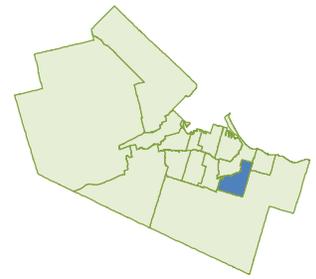
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 8

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	23,100	22.1%	44%	21%	23%	12%	66%	13%	6%	1%	10%	5%	4.6	2.8	3.6	63.8	
24 Hours	104,500		27%	11%	44%	18%	68%	18%	5%	1%	6%	3%	4.2	3.3	3.7	64.4	

TRIPS TO CITY OF HAMILTON - WARD 8

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	22,900	23.1%	26%	43%	6%	25%	53%	18%	11%	*	10%	9%	4.0	3.2	3.8	*	
24 Hours	99,300		9%	13%	43%	35%	65%	18%	7%	0%	6%	4%	3.9	3.3	3.7	64.3	

CITY OF HAMILTON WARD 9



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
9,500	64%	16%	20%	18%	32%	18%	19%	13%	8%	37%	41%	10%	3%	2.8	1.3	1.9	1.6	6.0

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home			
	Male															
	Female															
26,700	14%	7%	13%	27%	26%	13%	37.8	2.5	0.74	13,000	41%	6%	2%	22%	71%	7%
										13,700	30%	10%	2%	22%	64%	7%

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 9

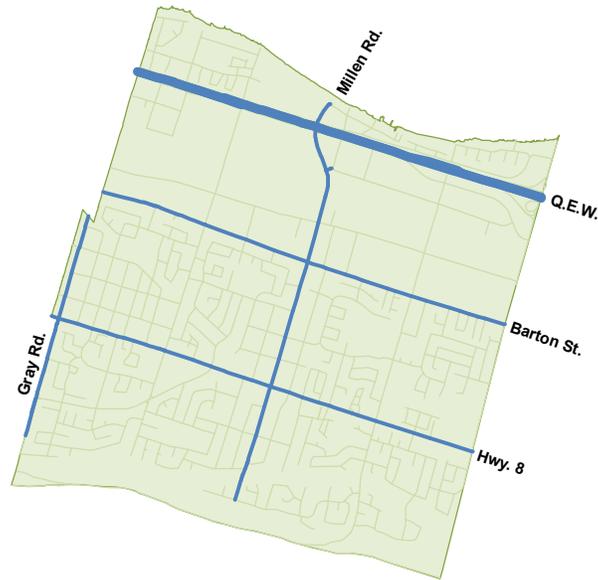
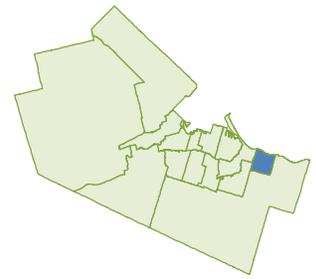
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	12,700	22.0%	43%	24%	22%	12%	69%	11%	3%	2%	6%	9%	7.2	4.5	10.0	61.2	
24 Hours	57,700		27%	12%	44%	18%	70%	18%	3%	1%	4%	4%	5.5	4.3	9.2	61.2	

TRIPS TO CITY OF HAMILTON - WARD 9

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	8,000	15.7%	25%	38%	10%	27%	57%	14%	5%	*	12%	12%	3.8	1.6	3.6	*	
24 Hours	50,900		7%	7%	47%	40%	68%	19%	3%	0%	5%	4%	4.7	3.7	5.7	61.4	

CITY OF HAMILTON

WARD 10



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
7,900	71%	16%	14%	20%	40%	18%	14%	7%	6%	36%	39%	14%	4%	2.5	1.2	2.0	1.7	5.1

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit							
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home										
	19,800	6%	4%	13%	21%	31%	24%				50.3	2.2	0.74				10,300	39%	6%	5%	17%	80%	5%
												Male					Female						

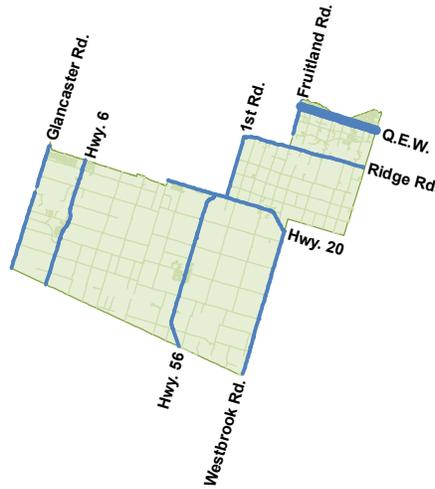
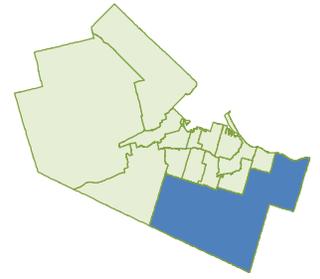
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 10

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	8,500	20.8%	51%	19%	21%	9%	74%	11%	3%	2%	7%	3%	8.5	1.9	13.9	54.2
24 Hours	41,000		30%	10%	46%	15%	75%	16%	3%	1%	3%	2%	5.3	3.3	13.1	54.6

TRIPS TO CITY OF HAMILTON - WARD 10

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	7,400	22.2%	52%	24%	6%	18%	69%	11%	4%	*	7%	9%	6.1	3.4	10.7	*
24 Hours	33,600		17%	6%	51%	26%	74%	15%	4%	0%	4%	3%	5.6	3.6	9.9	54.6

CITY OF HAMILTON WARD 11



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
15,000	82%	16%	3%	12%	38%	19%	22%	10%	2%	24%	56%	14%	5%	2.8	1.6	2.0	2.0	5.9

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	42,600	18%	4%	8%	32%	24%	13%			37.8	2.5	0.73	21,100	46%	5%	5%	19%	74%
											Female							
										21,500	33%	11%	4%	17%	72%	2%		

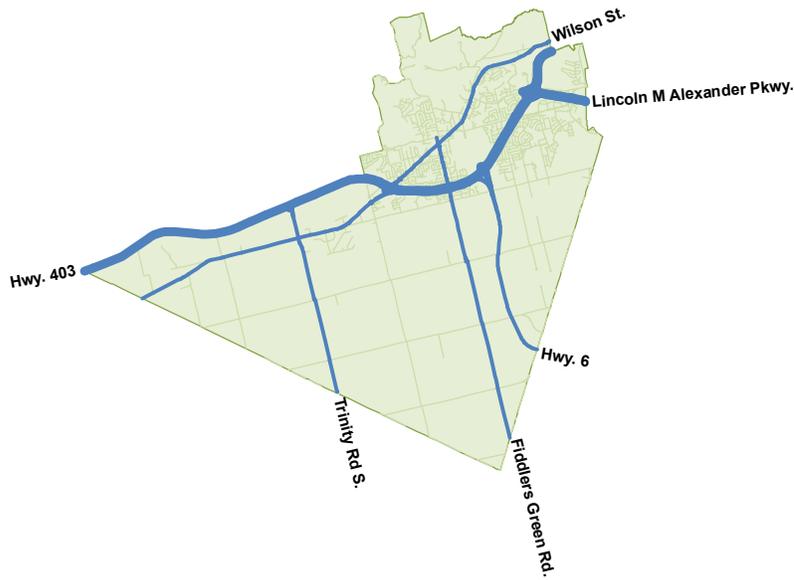
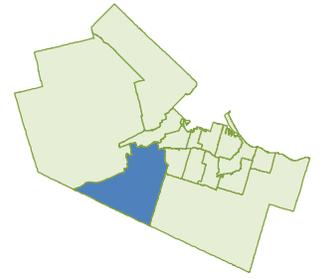
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 11

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	18,600	21.2%	52%	17%	18%	12%	79%	6%	1%	1%	1%	11%	14.0	8.8	13.0	53.7
24 Hours	88,100		31%	8%	41%	20%	80%	13%	1%	0%	1%	5%	10.5	8.8	12.9	53.7

TRIPS TO CITY OF HAMILTON - WARD 11

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	7,400	13.3%	52%	12%	11%	25%	80%	9%	1%	*	2%	8%	7.9	9.8	13.8	*
24 Hours	55,400		12%	2%	64%	23%	79%	13%	1%	0%	1%	5%	9.8	8.8	10.9	53.7

CITY OF HAMILTON WARD 12



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
12,800	80%	14%	6%	16%	35%	20%	21%	8%	3%	28%	52%	11%	5%	2.7	1.5	2.0	1.9	6.4

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	34,900	14%	7%	12%	24%	28%	15%			41.1	2.7	0.70	17,700	38%	6%	7%	27%	72%
											Female							
										17,300	26%	12%	5%	20%	74%	4%		

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 12

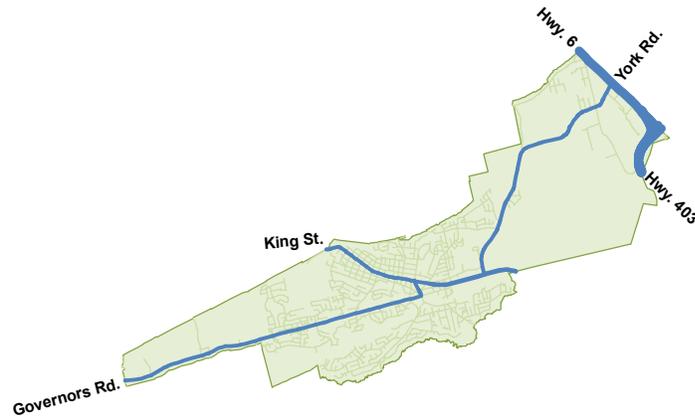
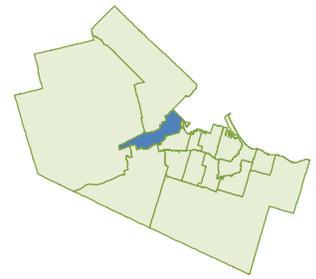
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	16,400	19.9%	43%	21%	23%	13%	72%	12%	3%	2%	3%	9%	8.3	4.4	4.7	67.0
24 Hours	82,400		24%	10%	45%	20%	74%	16%	2%	1%	2%	4%	6.2	5.0	5.3	66.9

TRIPS TO CITY OF HAMILTON - WARD 12

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	12,700	16.2%	41%	26%	5%	28%	68%	15%	2%	*	3%	12%	6.7	3.9	6.7	*
24 Hours	78,400		11%	5%	42%	43%	73%	18%	2%	0%	2%	4%	5.6	5.3	5.5	67.1

CITY OF HAMILTON

WARD 13



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
10,600	59%	11%	30%	26%	40%	15%	15%	5%	9%	40%	42%	7%	1%	2.3	1.2	1.7	1.5	5.4

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
												Female						
24,800	12%	4%	9%	24%	28%	22%	45.8	2.6	0.71	11,400	40%	6%	5%	17%	75%	6%		
										13,400	29%	9%	5%	15%	71%	8%		

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 13

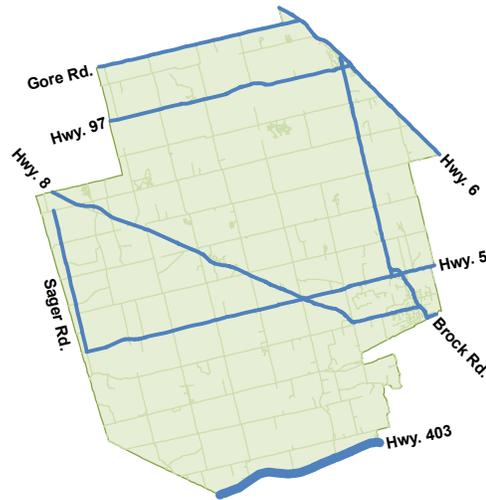
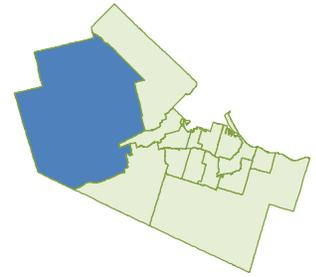
Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	11,400	19.8%	43%	16%	27%	14%	73%	11%	4%	1%	6%	5%	6.7	2.9	5.2	64.5	
24 Hours	57,400		24%	7%	48%	21%	75%	15%	4%	1%	4%	2%	4.9	4.4	5.4	63.7	

TRIPS TO CITY OF HAMILTON - WARD 13

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	6,400	14.6%	34%	24%	10%	32%	62%	15%	3%	*	10%	10%	2.9	2.3	7.3	*	
24 Hours	43,600		8%	4%	52%	37%	73%	15%	3%	0%	5%	3%	4.1	3.9	6.0	64.1	

CITY OF HAMILTON

WARD 14



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
5,700	98%	0%	2%	10%	48%	16%	12%	14%	1%	24%	52%	16%	7%	2.8	1.6	2.2	2.1	6.4

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit		
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home					
												Male						
	16,100	11%	7%	14%	19%	31%	18%			45.2	2.6	0.67	7,900	38%	7%	12%	20%	79%
											Female							
											8,200	24%	14%	6%	26%	77%	2%	

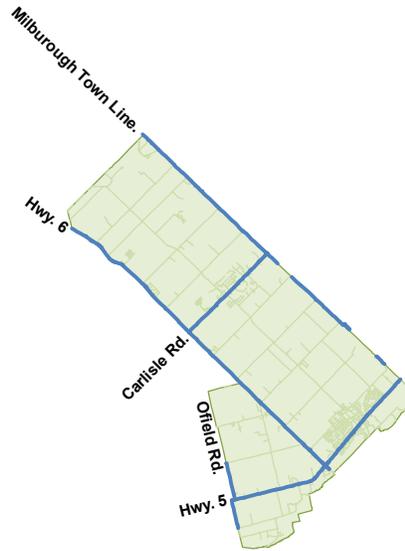
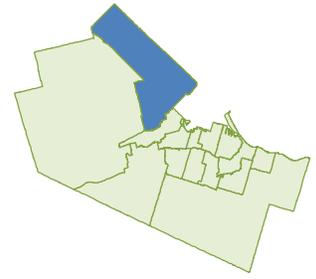
TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 14

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	7,400	20.2%	49%	22%	18%	10%	69%	11%	*	2%	2%	16%	17.8	11.4	*	64.0	
24 Hours	36,900		26%	10%	43%	21%	75%	17%	*	1%	1%	6%	12.6	8.9	*	64.0	

TRIPS TO CITY OF HAMILTON - WARD 14

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel							Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train	
6-9 AM	2,800	12.2%	49%	18%	6%	28%	71%	8%	*	*	*	17%	10.7	4.2	*	*	
24 Hours	22,600		9%	2%	64%	25%	73%	18%	0%	1%	1%	7%	12.3	11.3	12.3	64.2	

CITY OF HAMILTON WARD 15



HOUSEHOLD CHARACTERISTICS

Households	Dwelling Type			Household Size					Number of Available Vehicles					Household Averages				
	House	Townhouse	Apartment	1	2	3	4	5+	0	1	2	3	4+	Persons	Workers	Drivers	Vehicles	Trips/day
9,100	92%	3%	4%	12%	34%	20%	24%	9%	2%	19%	52%	19%	9%	2.9	1.8	2.2	2.2	7.0

POPULATION CHARACTERISTICS

Population	Age							Daily Trips per Person (age 11+)	Daily Work Trips per Worker	Population	Employment Type			Student	Licenced	Transit
	0 - 10	11 - 15	16 - 25	26 - 45	46 - 64	65+	Median				Full Time	Part Time	At Home			
	Male															
	Female															
26,000	10%	9%	16%	22%	30%	13%	42.1	2.7	0.72	13,100	43%	6%	8%	26%	76%	3%
										12,900	33%	13%	5%	24%	75%	3%

TRIPS MADE BY RESIDENTS OF CITY OF HAMILTON - WARD 15

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			HB-W	HB-S	HB-D	N-HB	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	13,900	21.8%	52%	25%	16%	8%	70%	10%	*	2%	4%	13%	10.7	2.8	*	55.4
24 Hours	63,600		28%	12%	43%	17%	75%	16%	0%	1%	2%	6%	8.4	6.9	8.8	55.3

TRIPS TO CITY OF HAMILTON - WARD 15

Time Period	Trips	% 24 hr	Trip Purpose				Mode of Travel						Median Trip Length (km)			
			Work	School	Home	Other	Driver	Pass.	Transit	GO Train	Wlk & Cy	Other	Driver	Pass.	Transit	GO Train
6-9 AM	7,500	14.6%	39%	31%	7%	22%	62%	13%	*	*	9%	16%	8.0	2.1	*	*
24 Hours	51,600		9%	5%	51%	36%	73%	17%	*	1%	3%	6%	7.6	5.5	*	55.0