

**City of Brampton
Planning and Development
Department**

**Transportation and Transit
Master Plan Sustainable
Update 2009 Appendix I -
Alternate Land Use Forecast
Sensitivity**

Brampton

November 2009

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1. ALTERNATE LAND USE FORECASTS

1.1 City-Wide Land Use

Land use projections for the 2031 horizon year were prepared in the Spring of 2008 and the Spring of 2009. City-wide population and employment forecasts totals are summarized in **Table 1-1**.

Table 1-1: City of Brampton Population and Employment Forecast, 2031

Date of Forecast	2031 Population	2031 Employment
Spring 2008	758,310	320,000
Spring 2009	737,890	318,870

A screenline sensitivity analysis of the TTMP road network has been conducted with these revised forecasts (documented in the next section), and the results suggest that the key TTMP recommendations will not change. Further refinement of the Spring 2009 forecasts is still ongoing, primarily in terms of population and employment distribution by Secondary Plan Areas. Once these Growth Plan forecasts have been finalized, a final model run will be conducted to confirm future travel demand estimates. The future run will also include updated land use estimates developed recently by the City of Mississauga and by the Region of Halton.

1.2 Screenline Comparison

Table 1-2: NB and SB Traffic Comparison, West of Highway 410

	West Totals (Winston Churchill to west of Hwy 410)						
		Original LU		June 2009 LU		% Difference	
NORTHBOUND	Capacity	Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Caledon / Brampton	18,000	5,600	0.31	5,300	0.29	-5%	-0.02
North of Bovaird Drive / Castlemore Road	20,600	14,800	0.72	13,500	0.66	-9%	-0.06
North of Queen Street / Embleton Road	20,200	19,400	0.96	17,900	0.89	-8%	-0.07
North of Steeles Avenue	23,600	19,200	0.81	17,700	0.75	-8%	-0.06
Brampton / Mississauga	19,300	15,000	0.78	14,200	0.74	-5%	-0.04
		Original LU		June 2009 LU		% Difference	
SOUTHBOUND		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Caledon / Brampton	18,000	4,300	0.24	4,000	0.22	-7%	-0.02
North of Bovaird Drive / Castlemore Road	20,600	8,600	0.42	9,200	0.45	7%	0.03
North of Queen Street / Embleton Road	20,200	9,600	0.48	10,500	0.52	9%	0.04
North of Steeles Avenue	23,600	10,600	0.45	11,000	0.47	4%	0.02
Brampton / Mississauga	19,300	9,900	0.51	9,600	0.50	-3%	-0.02

Table 1-3: NB and SB Traffic Comparison, East of Highway 410

	East Totals (Hwy 410 to Highway 50)						
		Original LU		June 2009 LU		% Difference	
NORTHBOUND	Capacity	Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Caledon / Brampton	19,600	10,900	0.56	10,800	0.55	-1%	-0.01
North of Bovaird Drive / Castlemore Road	24,500	25,900	1.06	24,700	1.01	-5%	-0.05
North of Queen Street / Embleton Road	22,500	22,900	1.02	22,000	0.98	-4%	-0.04
North of Steeles Avenue	16,100	16,900	1.05	16,500	1.02	-2%	-0.02
Brampton / Mississauga	12,400	10,800	0.87	11,000	0.89	2%	0.02
		Original LU		June 2009 LU		% Difference	
SOUTHBOUND	Capacity	Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Caledon / Brampton	19,600	4,900	0.25	5,000	0.26	2%	0.01
North of Bovaird Drive / Castlemore Road	24,500	13,000	0.53	13,300	0.54	2%	0.01
North of Queen Street / Embleton Road	22,500	9,300	0.41	9,600	0.43	3%	0.01
North of Steeles Avenue	16,100	8,400	0.52	8,100	0.50	-4%	-0.02
Brampton / Mississauga	12,400	5,000	0.40	4,700	0.38	-6%	-0.02

Table 1-4: EB and WB Traffic Comparison, North of Queen

	North Totals (Mayfield to North of Queen)						
		Original LU		June 2009 LU		% Difference	
WESTBOUND		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Brampton / Halton	6,800	3,200	0.47	3,600	0.53	13%	0.06
Credit River*							0.00
East of Highway 10	11,800	9,900	0.84	9,500	0.81	-4%	-0.03
East of Highway 410 / Heartlake Road	11,700	11,700	1.00	11,400	0.97	-3%	-0.03
East of Airport Road	12,700	10,400	0.82	10,500	0.83	1%	0.01
West of Highway 50	12,900	8,800	0.68	8,500	0.66	-3%	-0.02
		Original LU		June 2009 LU		% Difference	
EASTBOUND		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Brampton / Halton	7,700	2,400	0.31	2,400	0.31	0%	0.00
Credit River*							0.00
East of Highway 10	11,800	8,200	0.69	8,300	0.70	1%	0.01
East of Highway 410 / Heartlake Road	11,700	9,700	0.83	9,600	0.82	-1%	-0.01
East of Airport Road	12,700	7,300	0.57	6,800	0.54	-7%	-0.04
West of Highway 50	12,900	5,800	0.45	5,800	0.45	0%	0.00

Table 1-5: EB and WB Traffic Comparison, South of Queen

	South Totals (Queen to Bram.-Miss. Boundary)						
	Capacity	Original LU		June 2009 LU		% Difference	
		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
WESTBOUND							
Brampton / Halton	4,900	2,800	0.57	2,900	0.59	4%	0.02
Credit River*	10,400	8,900	0.86	8,700	0.84	-2%	-0.02
East of Highway 10	3,300	3,600	1.09	3,700	1.12	3%	0.03
East of Highway 410 / Heartlake Road	9,100	8,500	0.93	8,700	0.96	2%	0.02
East of Airport Road	5,100	4,800	0.94	4,800	0.94	0%	0.00
West of Highway 50	6,600	5,600	0.85	5,800	0.88	4%	0.03
		Original LU		June 2009 LU		% Difference	
EASTBOUND	Capacity	Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
Brampton / Halton	4,900	2,600	0.53	2,500	0.51	-4%	-0.02
Credit River*	10,400	9,100	0.88	8,700	0.84	-4%	-0.04
East of Highway 10	3,300	2,200	0.67	2,200	0.67	0%	0.00
East of Highway 410 / Heartlake Road	9,100	5,400	0.59	5,500	0.60	2%	0.01
East of Airport Road	5,100	4,300	0.84	4,100	0.80	-5%	-0.04
West of Highway 50	6,600	4,400	0.67	4,000	0.61	-9%	-0.06

Table 1-6: Screenline Totals, West of 410 and North of Queen

NORTHBOUND	Capacity	Original LU		June 2009 LU		% Difference	
		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
NB TOTAL	101,700	74,000	0.73	68,600	0.67	-7%	-0.05
SB TOTAL	101,700	43,000	0.42	44,300	0.44	3%	0.01
WB TOTAL	55,900	44,000	0.79	43,500	0.78	-1%	-0.01
EB TOTAL	56,800	33,400	0.59	32,900	0.58	-1%	-0.01
OVERALL	316,100	194,400	0.61	189,300	0.60	-3%	-0.02

Table 1-7: Screenline Totals, East of 410 and South of Queen

NORTHBOUND	Capacity	Original LU		June 2009 LU		% Difference	
		Volume	V / C Ratio	Volume	V / C Ratio	Volume	V / C Ratio
NB TOTAL	95,100	87,400	0.92	85,000	0.89	-3%	-0.03
SB TOTAL	95,100	40,600	0.43	40,700	0.43	0%	0.00
WB TOTAL	39,400	34,200	0.87	34,600	0.88	1%	0.01
EB TOTAL	39,400	28,000	0.71	27,000	0.69	-4%	-0.03
OVERALL	269,000	190,200	0.71	187,300	0.70	-2%	-0.01