

Supporting Agencies

(ignoring all name changes)

Original (1986, 1991)

Metropolitan Toronto

Regional Municipalities of: Durham, Halton, Hamilton-Wentworth, Peel, York

GO Transit, Toronto Transit Commission

Ministry of Transportation, Ontario

Additions in 1996

Regional Municipalities of Niagara, Waterloo

Counties of Peterborough, Simcoe, Victoria, Wellington

Cities of Barrie, Guelph, Peterborough

Town of Orangeville

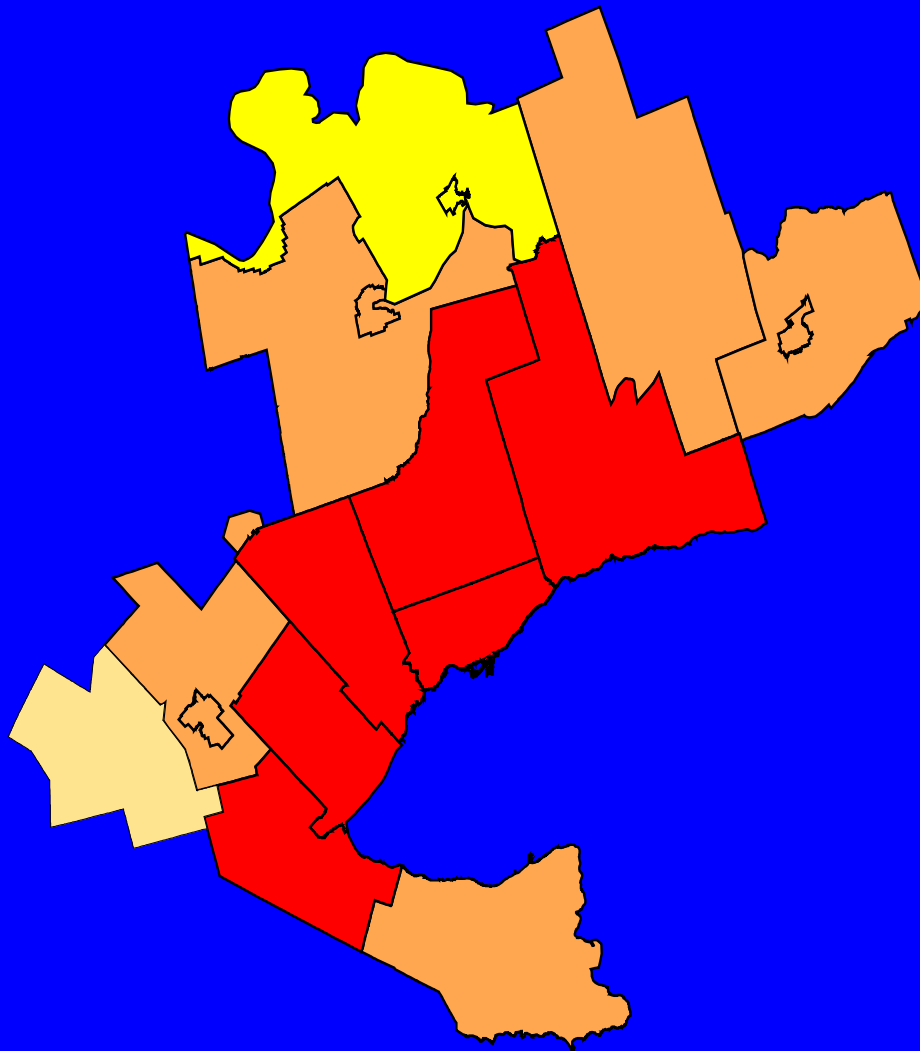
Changes in 2001





City of Orillia

County of Simcoe (expanded)

Regional Municipality of Waterloo (elected not to participate)

Survey Area



-  2001 only
-  1996 only
-  1996 and 2001
-  1986, 1991, 1996 and 2001

Seminar Agenda

- Conduct of the Survey
- 2001 Data Summary
(15 minute break)
- Time Series Analysis (1986, 1991, 1996, 2001)
- Data Validation
- Data Access

Conduct of the Survey

2001 Survey Period

<u>Period</u>	<u>Area</u>	<u>Staff</u>
Sept. - Dec. 2000	External to GTA	70
Sept. - Dec. 2001	GTA plus Hamilton	290
May - June 2002	Supplement	60

Survey Procedure

- Advance Letter
- Telephone Interview (maximum of 8 attempts)
- Geocode all Location Information
- Call Back if Necessary

Survey Questions in 2001

Household

- Home Location
- Number of People
- Number of Vehicles
- Dwelling Type

Person

- Age and Gender
- Employment and Student Status
- Licenced to Drive
- Work and School Location
- Availability of Free Parking at Work
- Transit Pass
- Occupation
- Work at Home

Trip

- Origin and Destination Location
- Purpose
- Start Time
- Mode of Travel
- Details of Access, Egress and Route for Transit Trips

Sample Control

Telephone Listings from Cornerstone List Managers

- August - Preliminary List of Survey Area
- October - Complete Listing to Cover 5% Sample
- Supplementary Lists as Necessary

Uniform 5% Sample Across Survey Area Controlled by Canada Post's Forward Sortation Areas

Preliminary Data expanded to 2001 Census Dwelling
Units by Forward Sortation Area (where possible)

Final Data Base to be expanded to 2001 Census
Occupied Dwelling Units by Forward Sortation Area

Interview Process in 2001

Equipment

- 120 interview stations, 8 monitoring stations, 12 coding stations on a local area network

Four Interview Teams in the Evening (5:30 - 9:30 p.m.)

Daytime Interview Team

- scheduled call-backs
- respondent call-ins
- visual editing of completed interviews

Geocoding Process in 2001

All Location Data

- home address
- usual place of work and school
- location of every trip origin and trip destination

UTM (Universal Transverse Mercator) Coordinates

x-y Coordinates Assigned to:

- 1996 Traffic Zone System
- 2001 Traffic Zone System

Quality Control

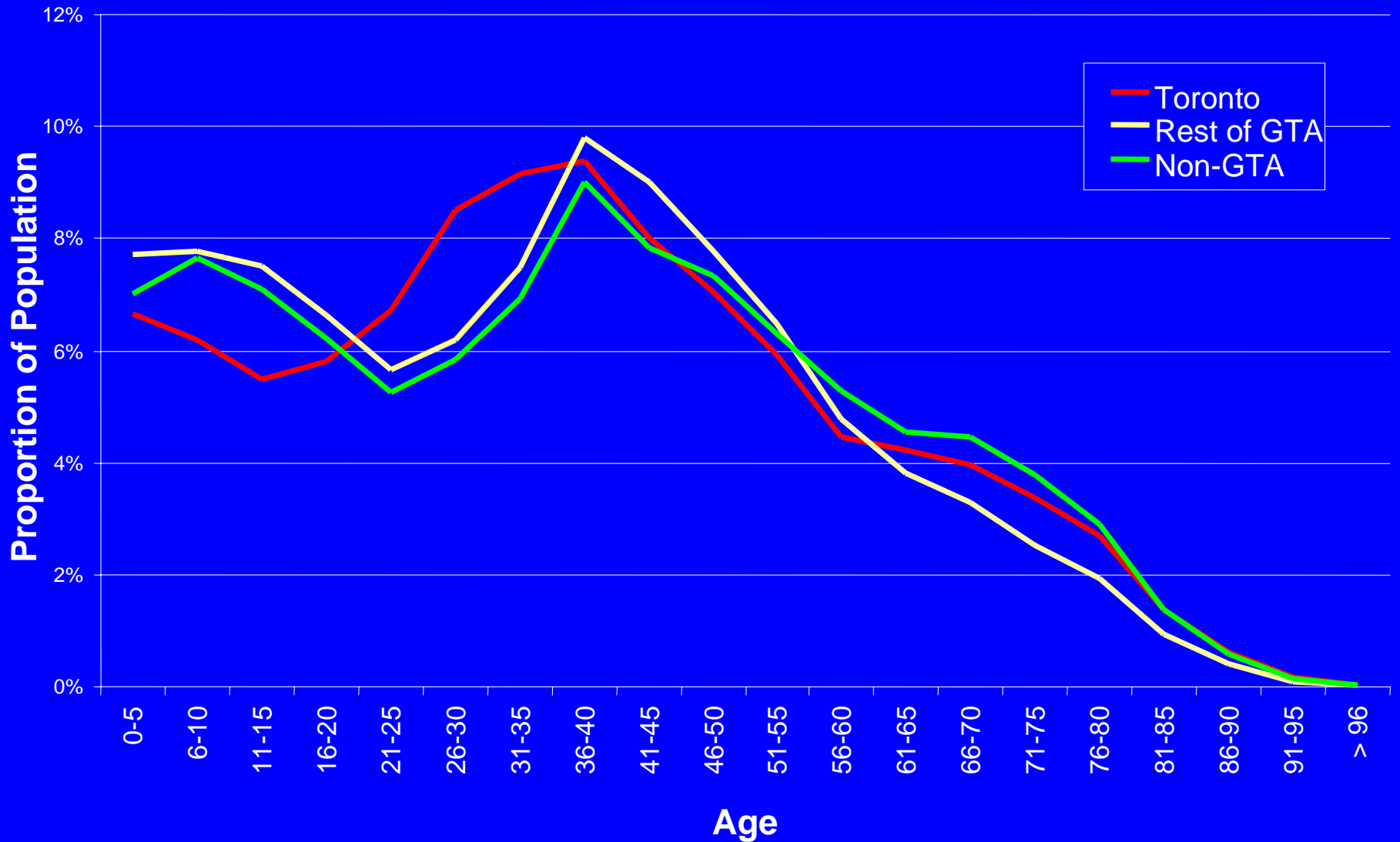
- Logic Checks in Direct Data Entry Software
- Silent Telephone Monitoring
- Validation Checks Run Nightly
- Visual Editing of Printouts of Completed Interviews
- Extensive Logic and Validation Checks Processed on Complete Database

2001 Data Summary

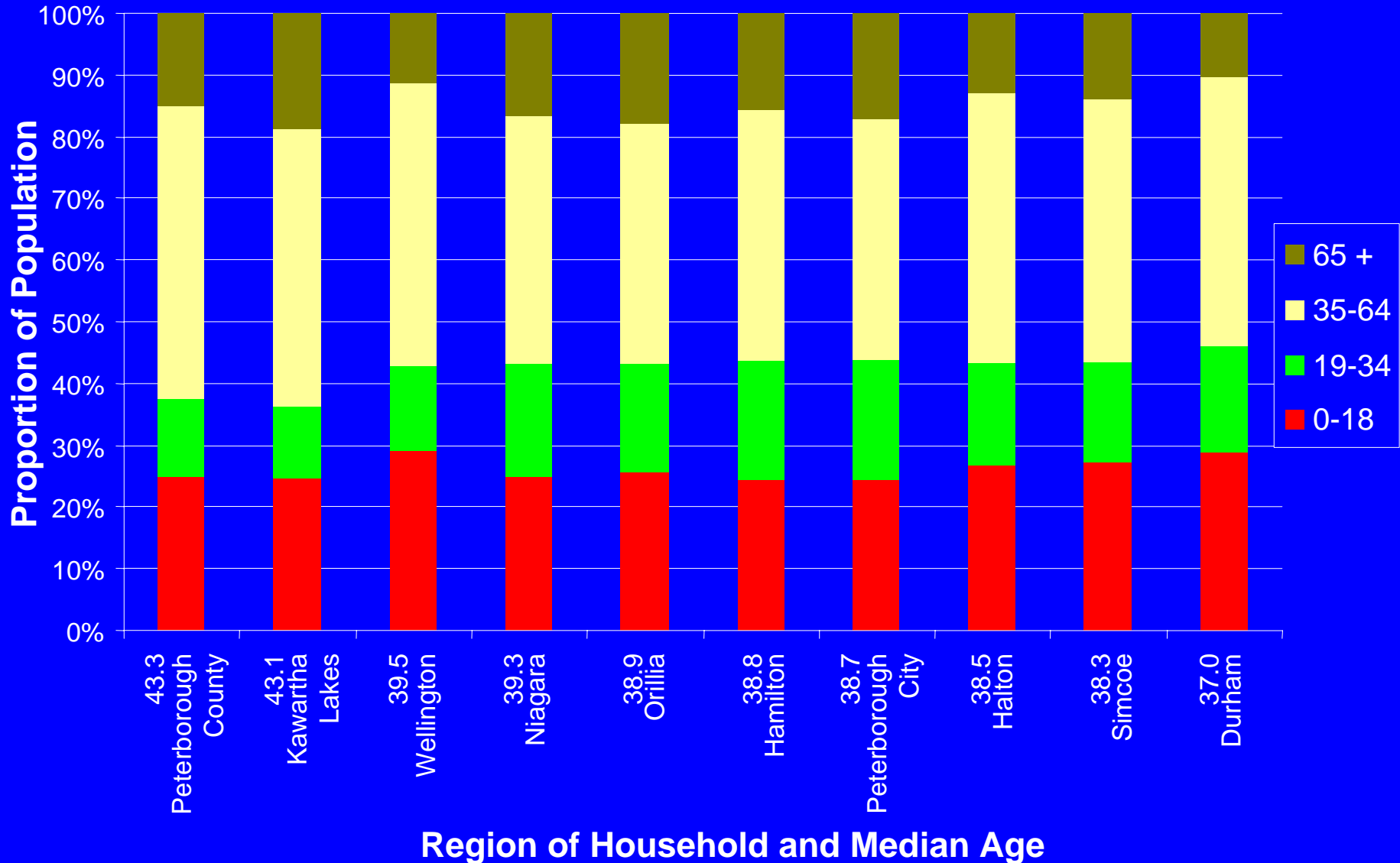
2001 TTS - Number of Records

<u>Participating Agency</u>	<u>Households</u>	<u>Persons</u>	<u>Trips</u>
City of Toronto	56,525	146,442	299,452
Region of Durham	9,357	26,929	61,666
Region of York	12,474	39,766	90,597
Region of Peel	17,624	55,182	119,001
Region of Halton	7,436	20,377	49,251
City of Hamilton	10,194	26,512	58,728
City of Kawartha Lakes	1,312	3,254	6,707
City of Peterborough	1,663	3,986	10,048
County of Peterborough	753	1,989	4,603
City of Barrie	1,969	5,359	12,293
City of Orillia	629	1,510	3,699
County of Simcoe	4,217	11,301	24,751
Town of Orangeville	579	1,626	3,597
Region of Niagara	8,620	21,868	53,560
City of Guelph	2,272	5,888	14,554
County of Wellington	800	2,306	5,517
Total Survey Area	136,424	374,295	818,024

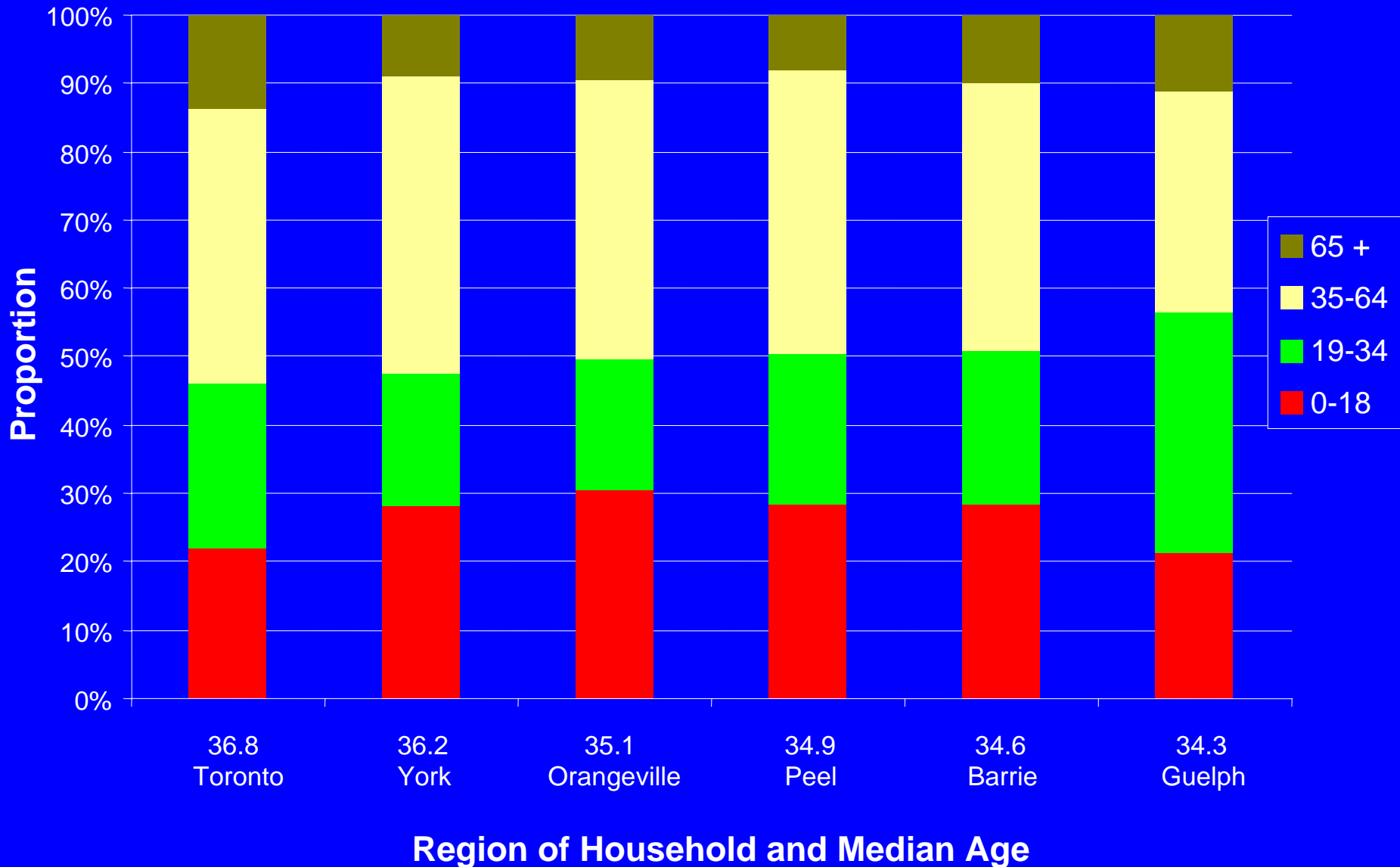
Population Distribution by Age Group



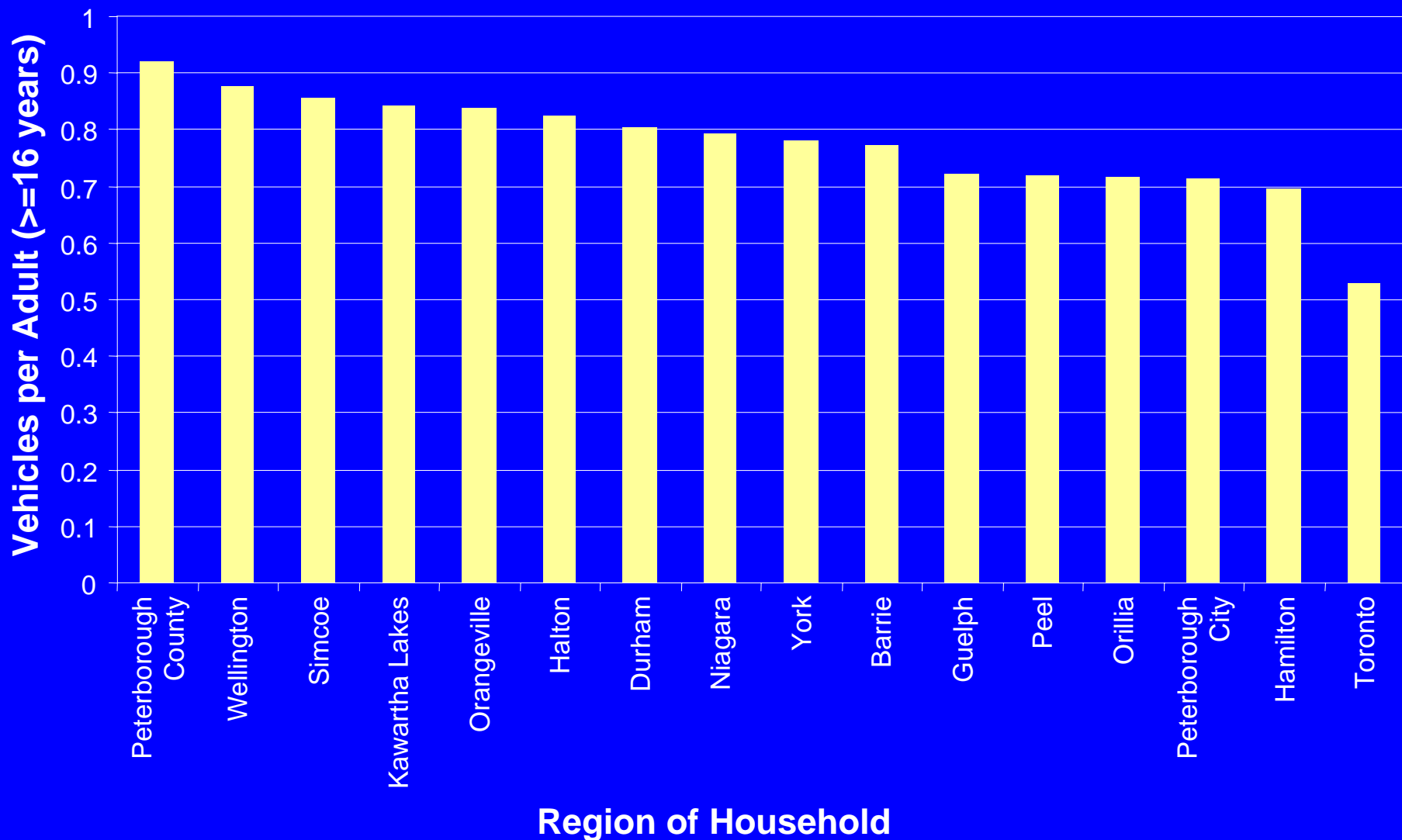
Areas With Median Age > 36.9 Years



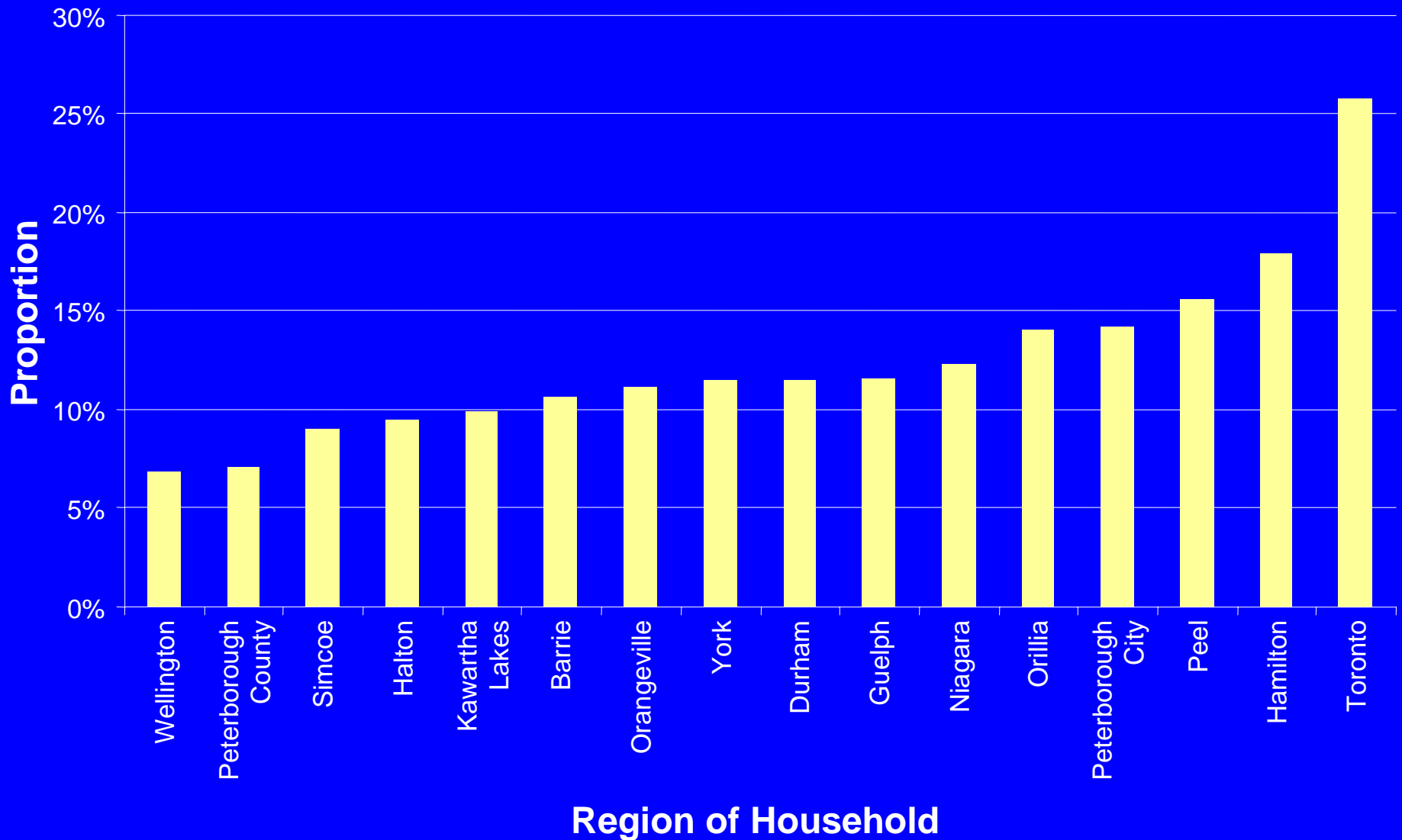
Areas with Median Age < 36.9



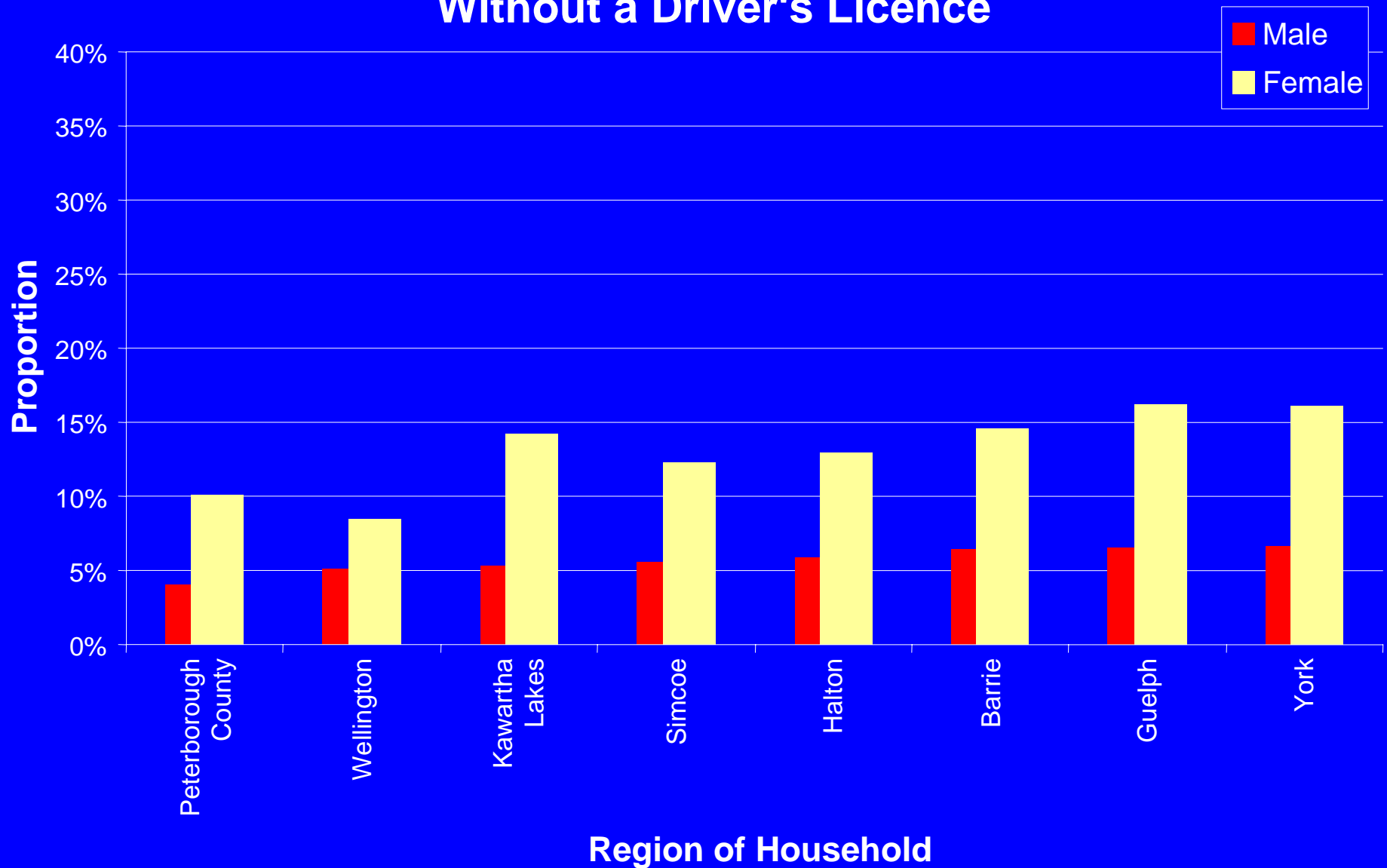
Vehicle Availability



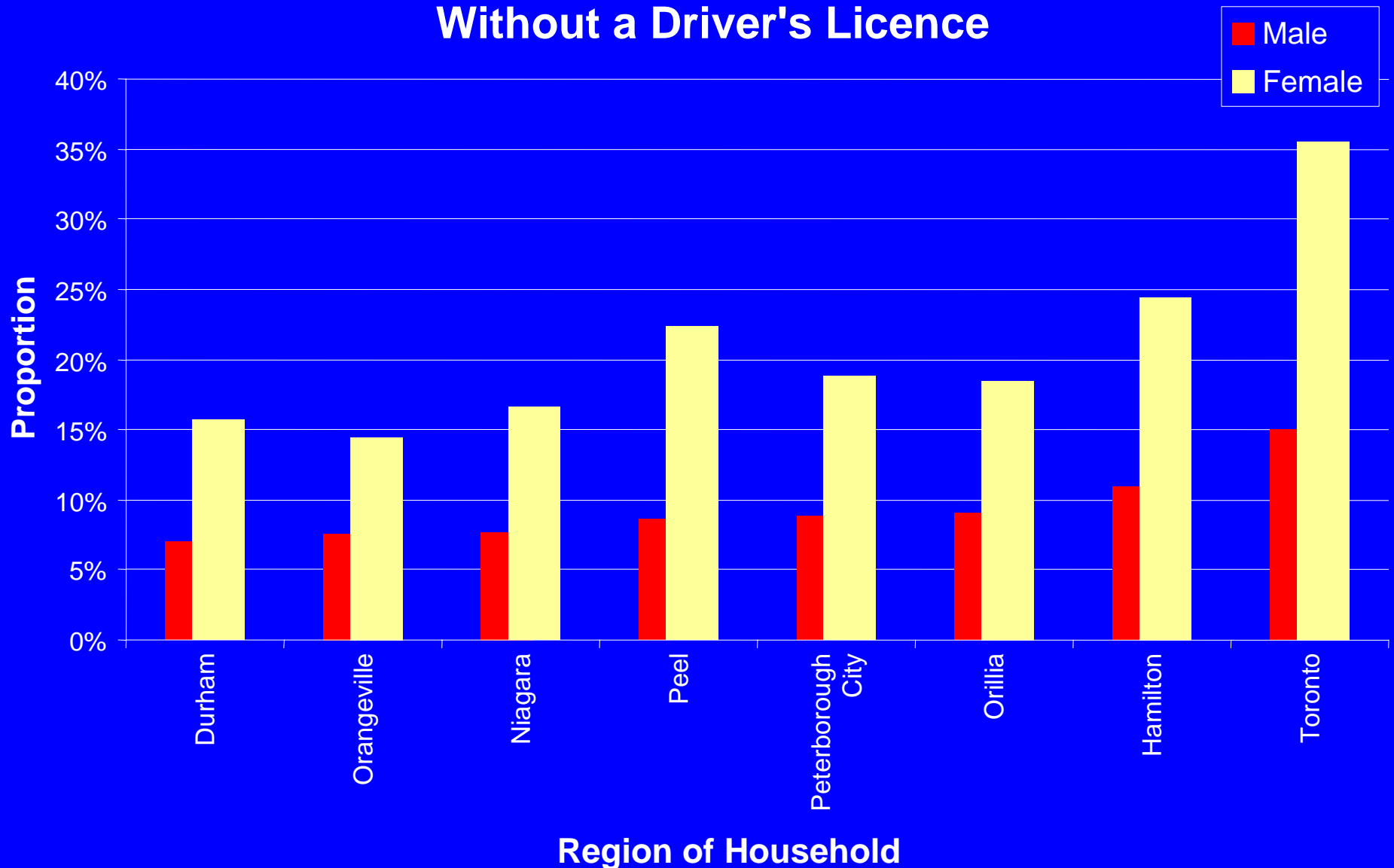
Proportion of Adults (>=16 yrs) Without a Driver's Licence



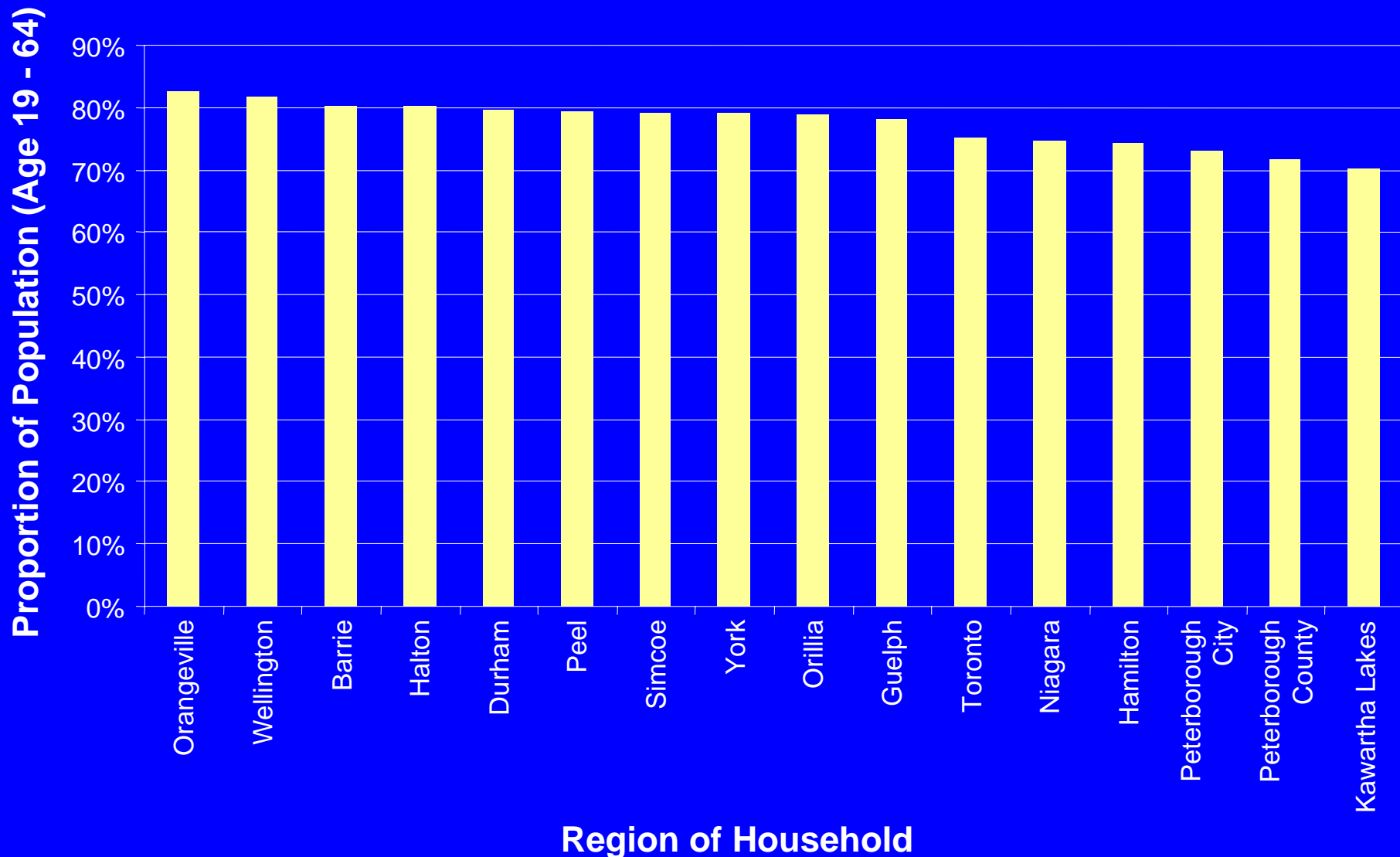
Proportion of Adults (≥ 16) Without a Driver's Licence



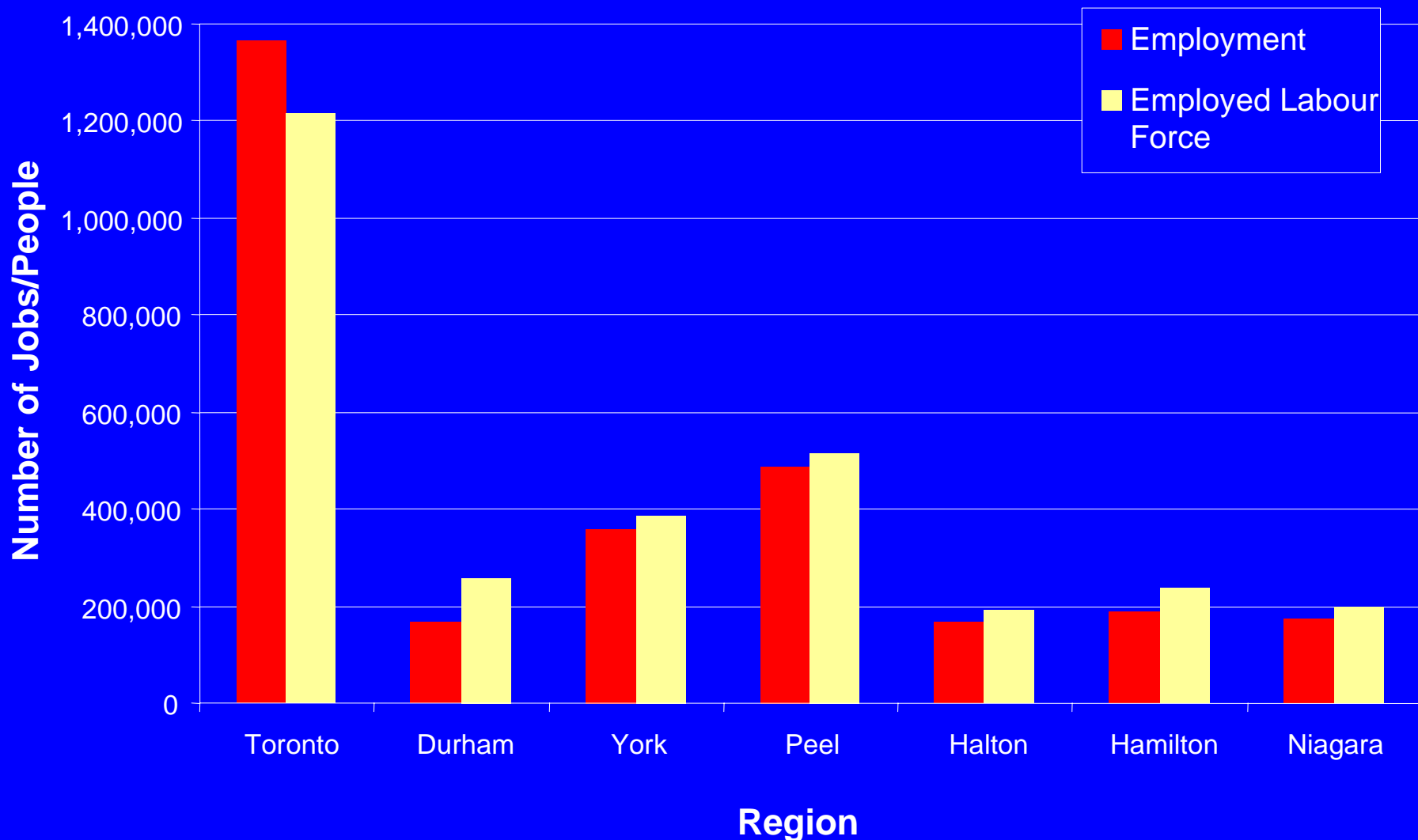
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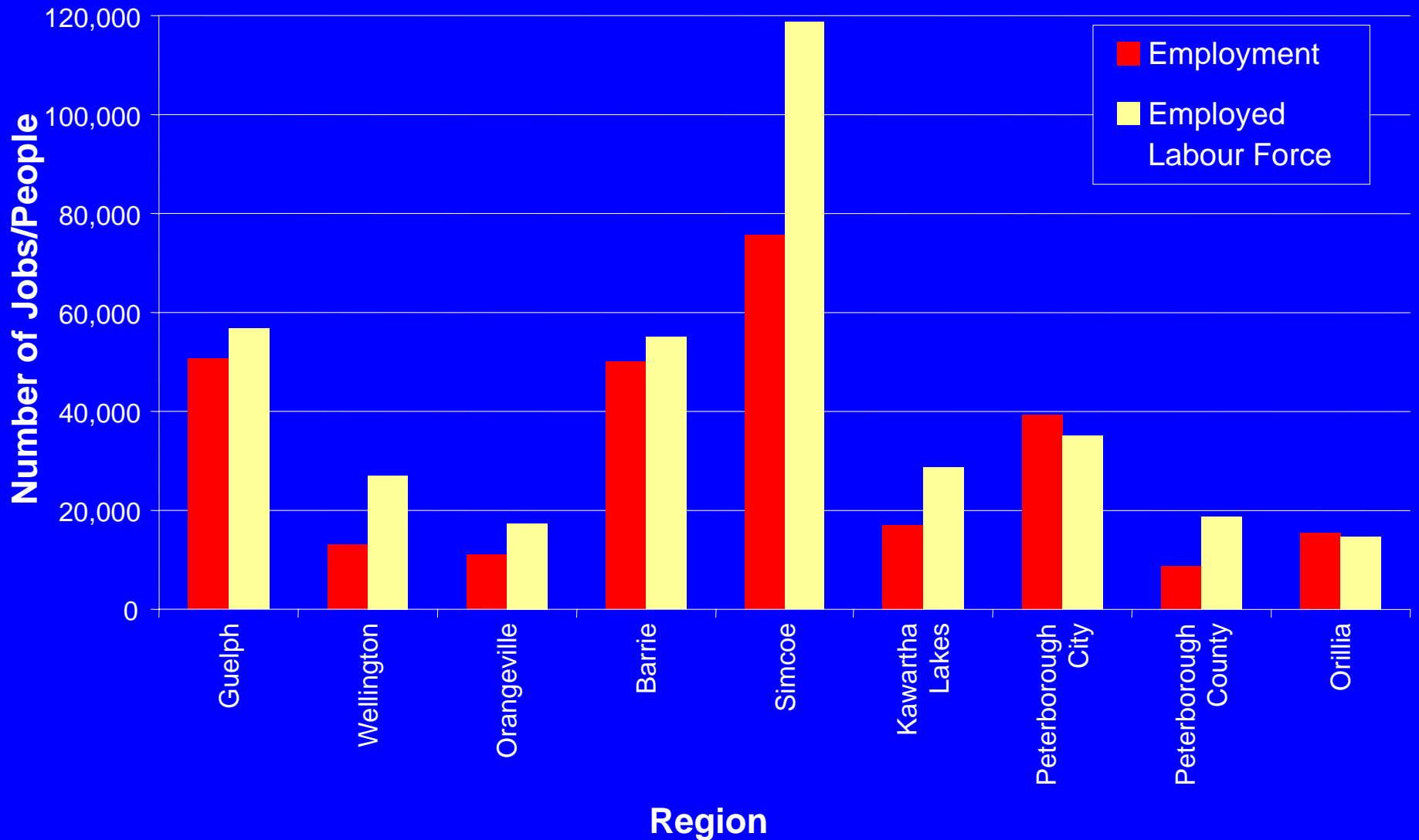
Employed Labour Force Participation Rate



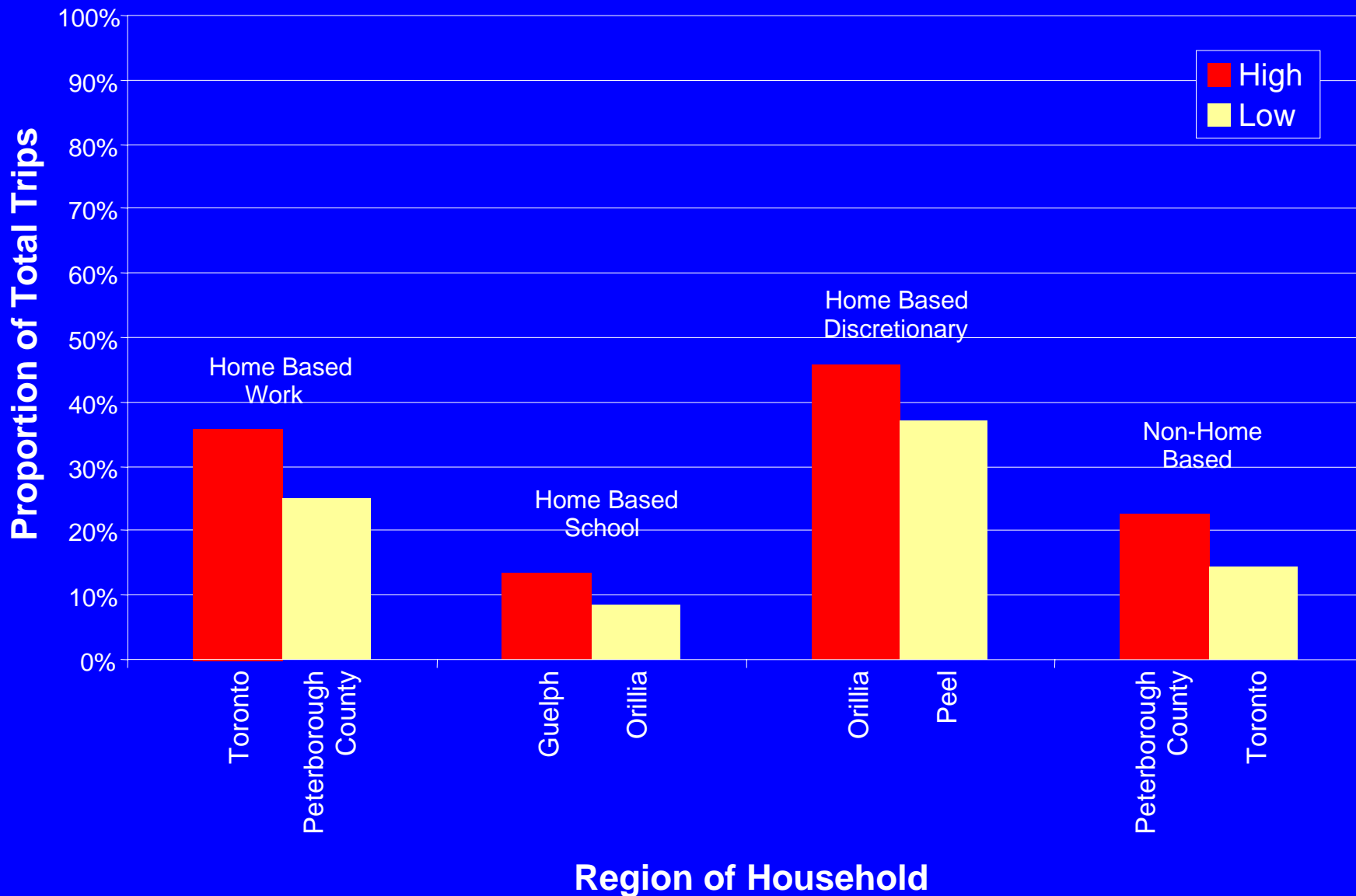
Employment vs. Employed Labour Force



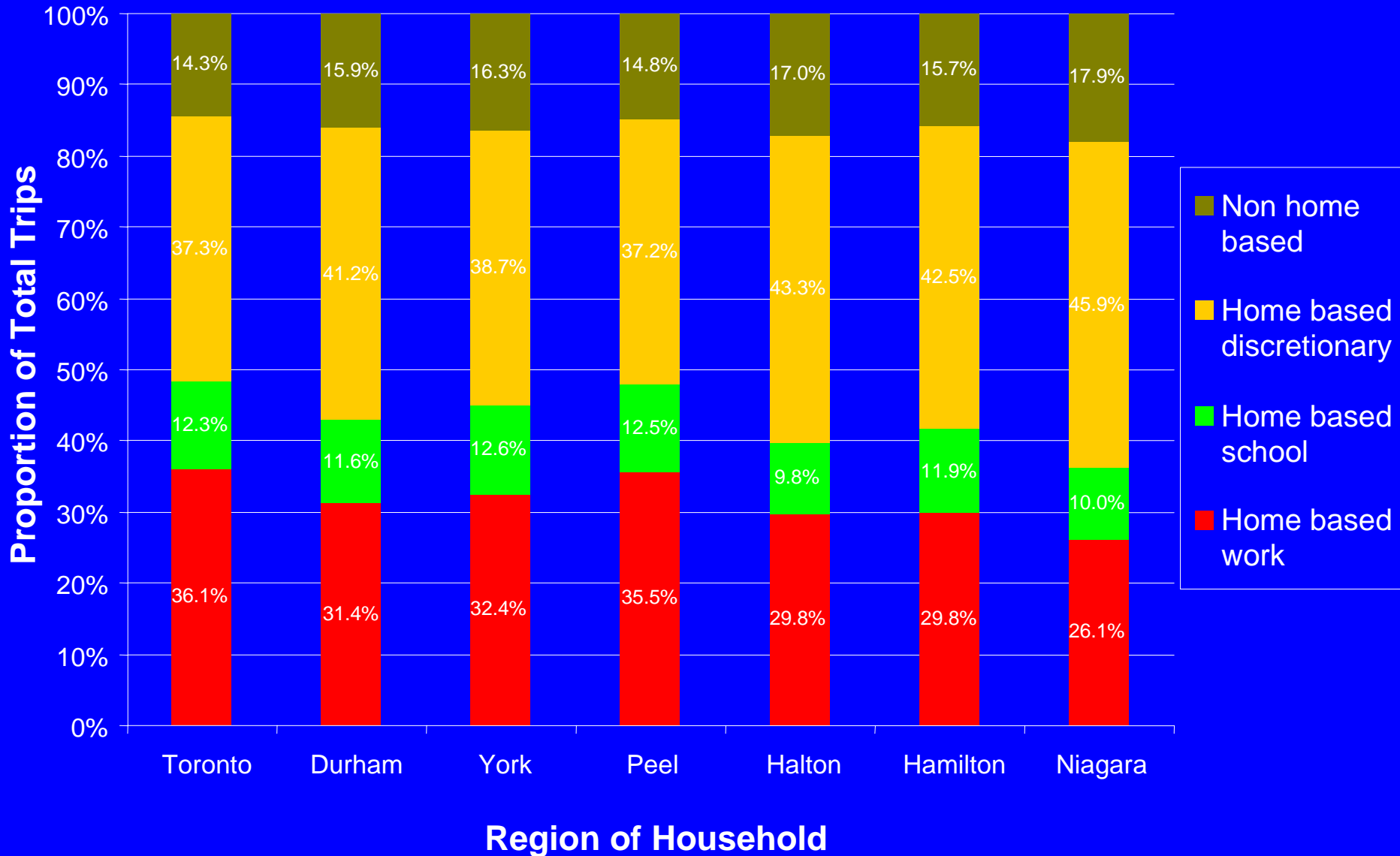
Employment vs. Employed Labour Force



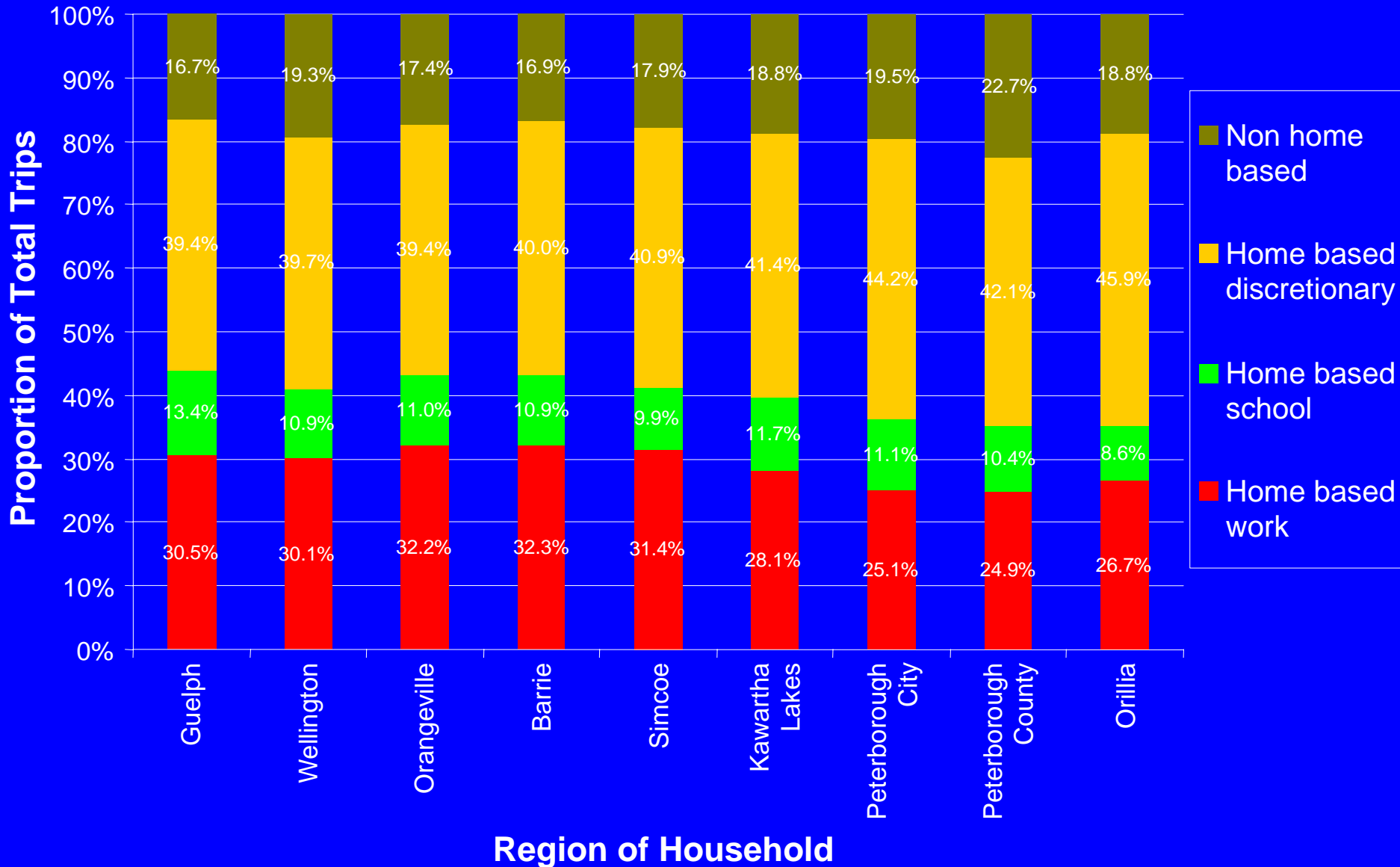
Trip Purpose



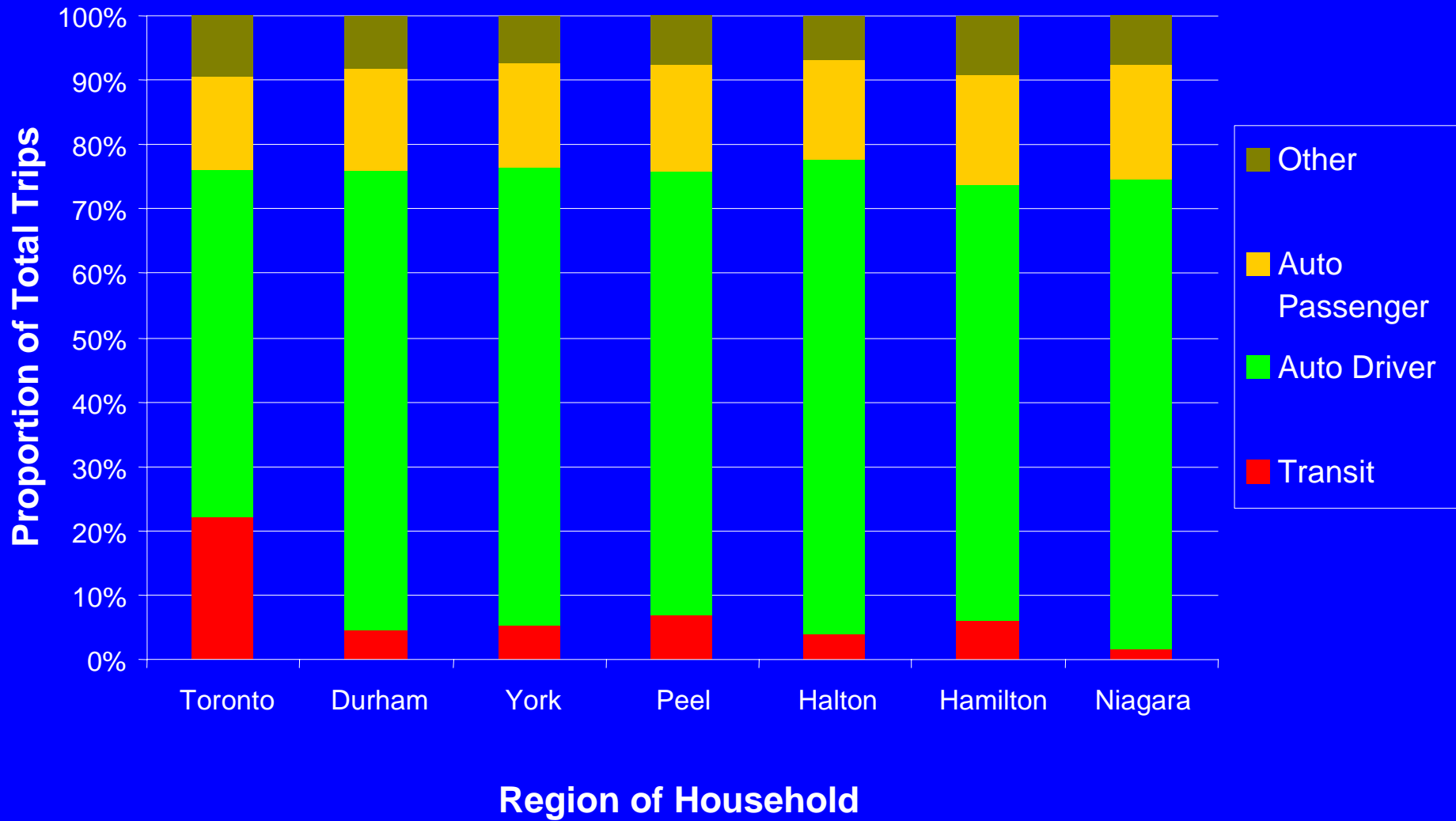
Trips by Trip Purpose



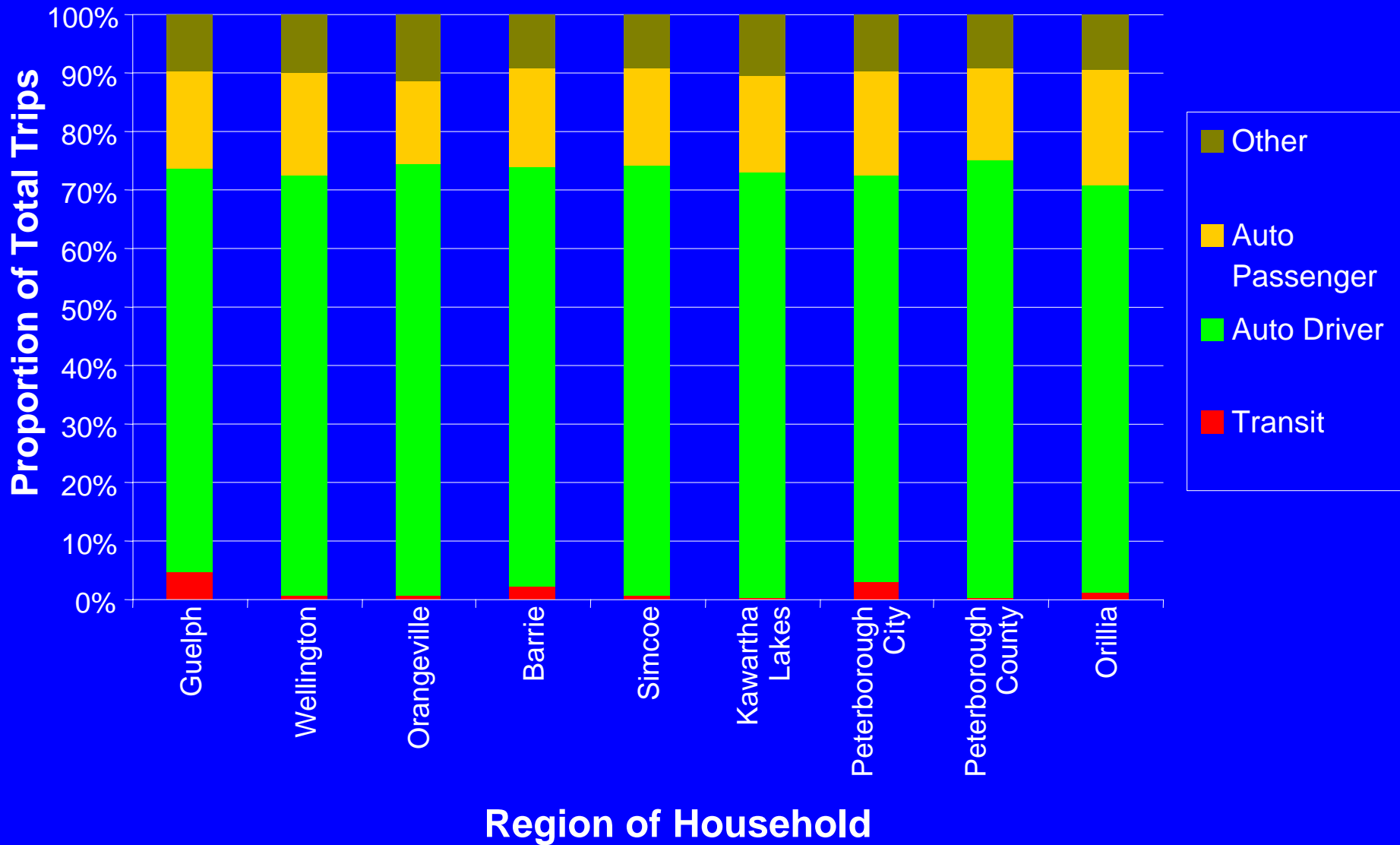
Trips by Trip Purpose



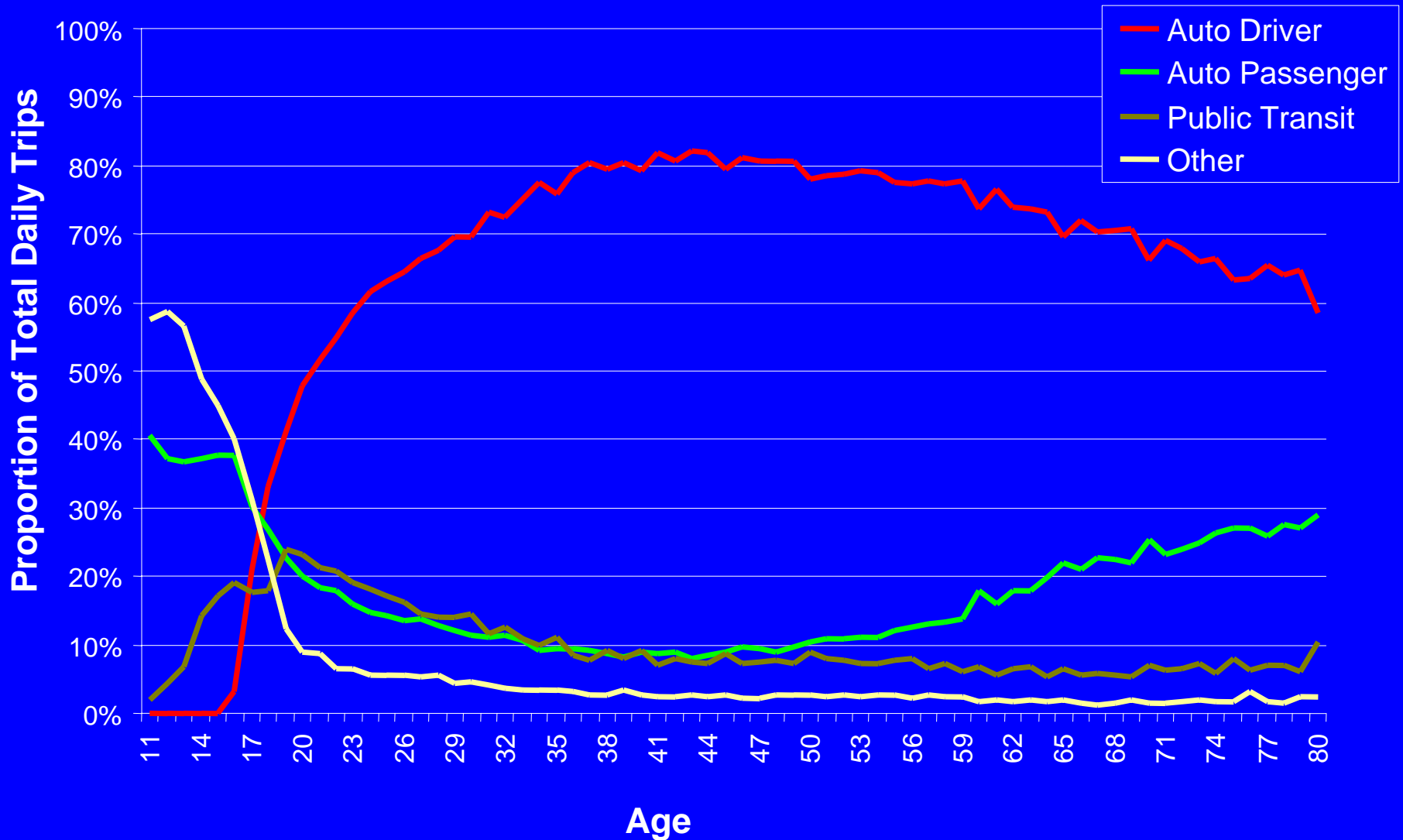
Mode Splits All Trips



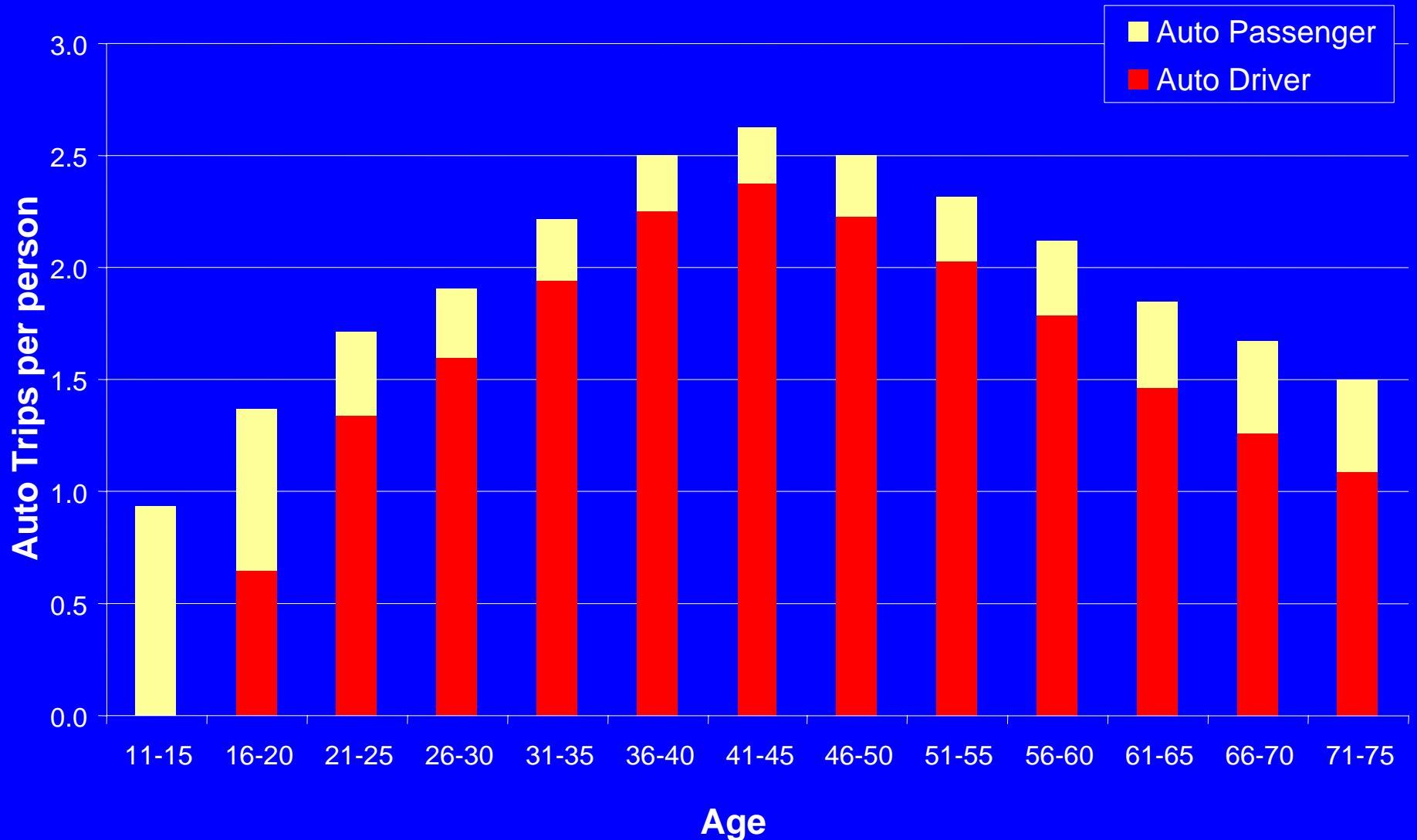
Mode Split All Trips



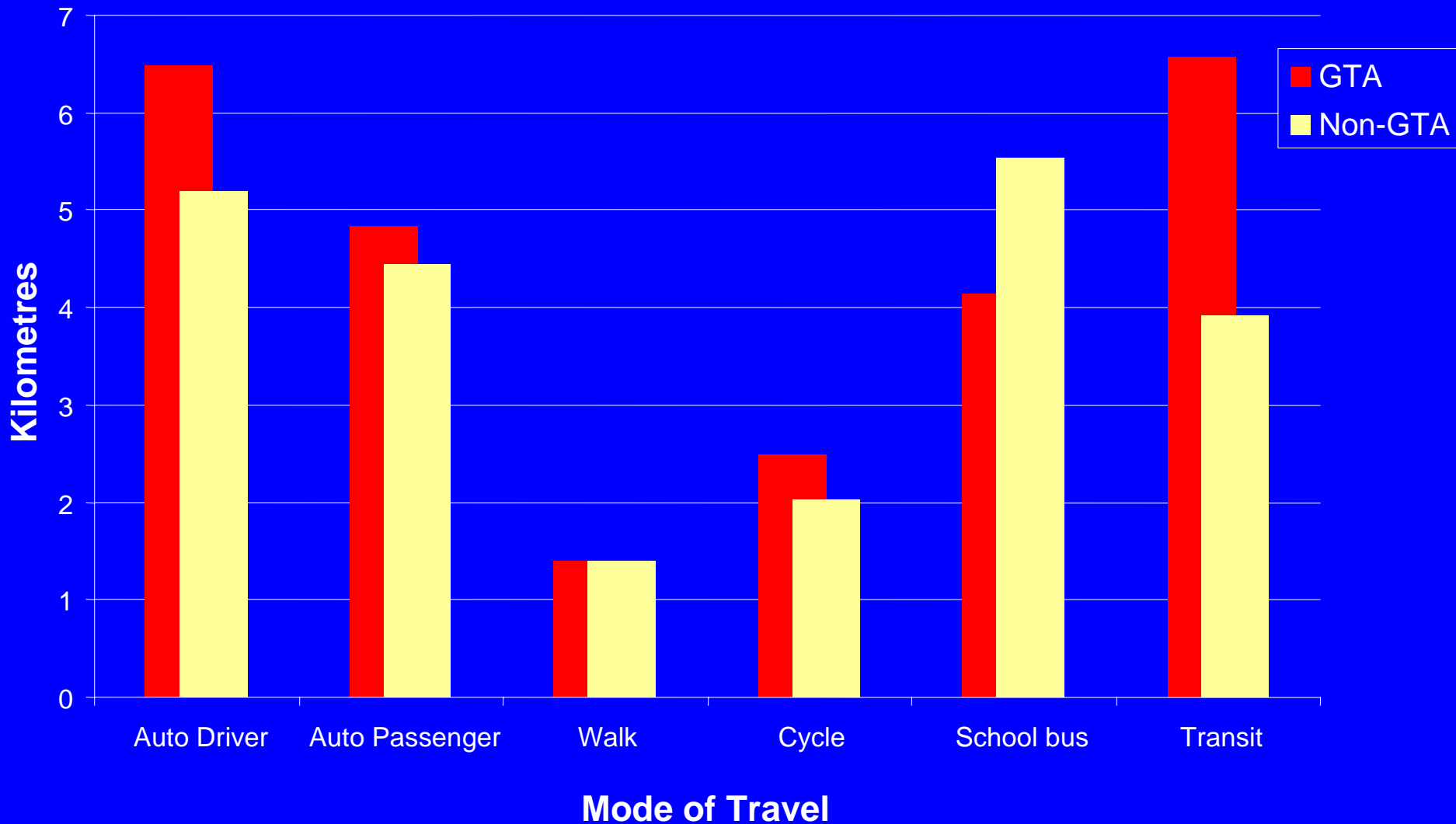
Total Survey Area Mode Split



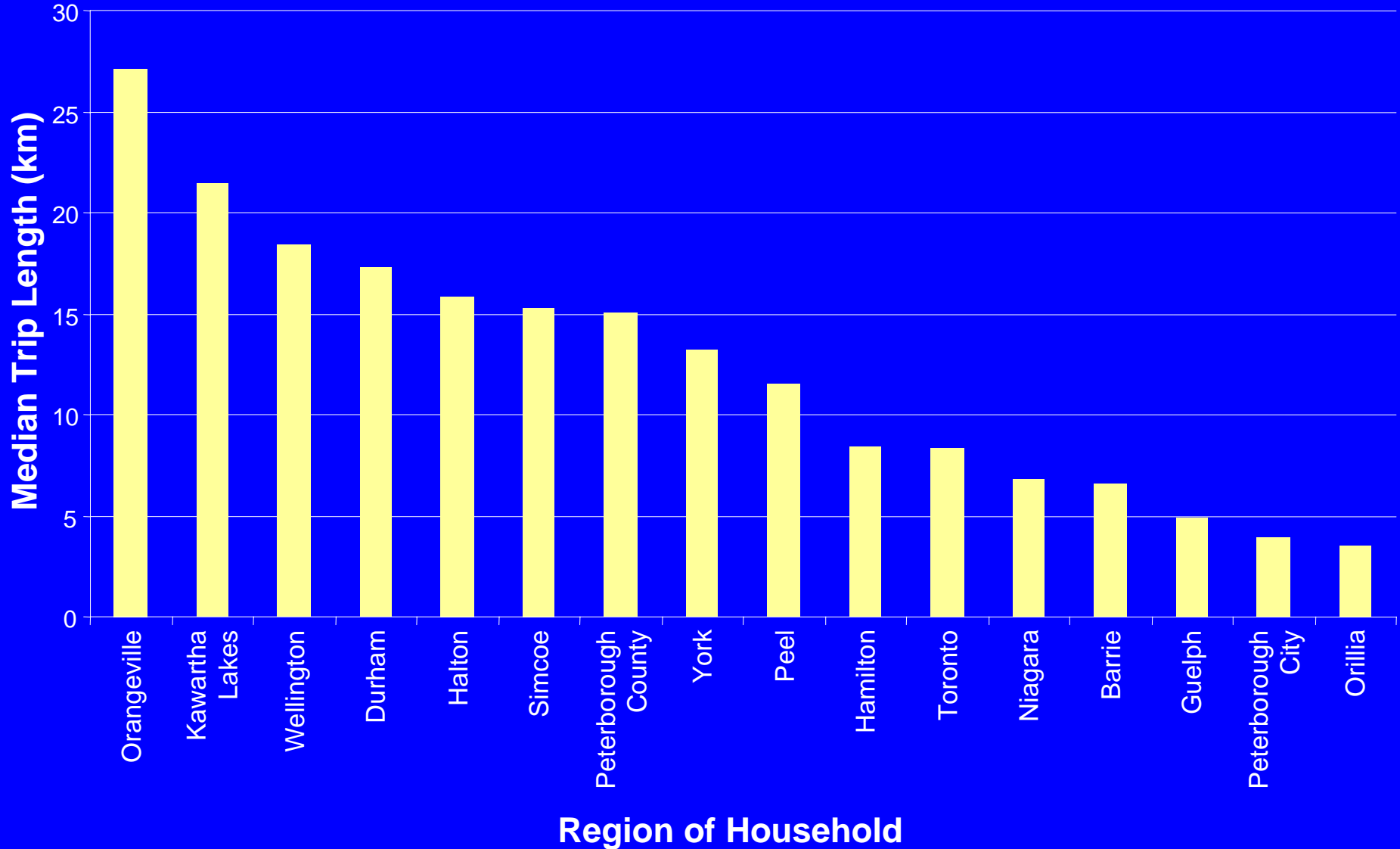
GTA Auto Trip Rate (Driver and Passenger)



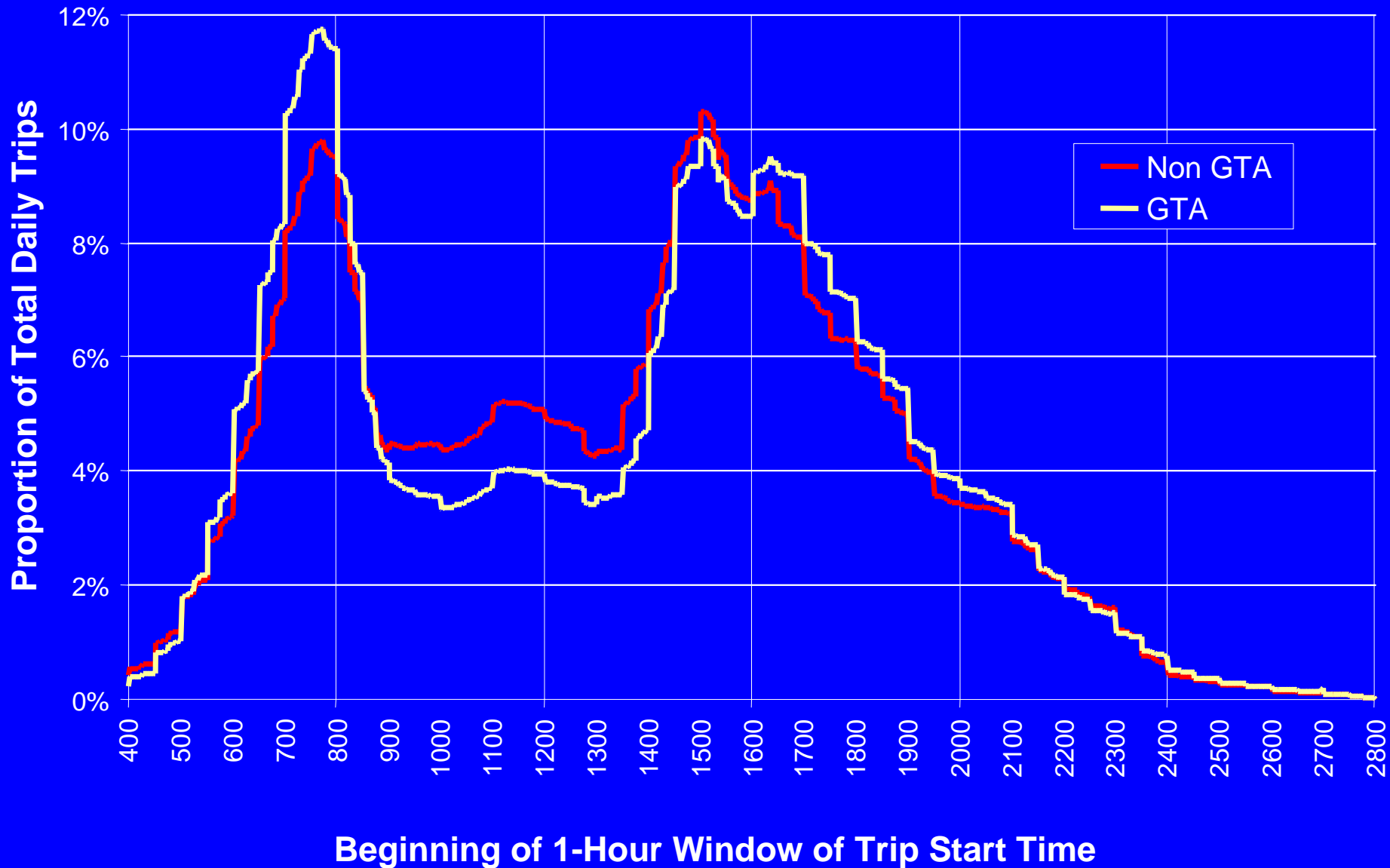
Median Trip Length (Transit does not include GO Rail)



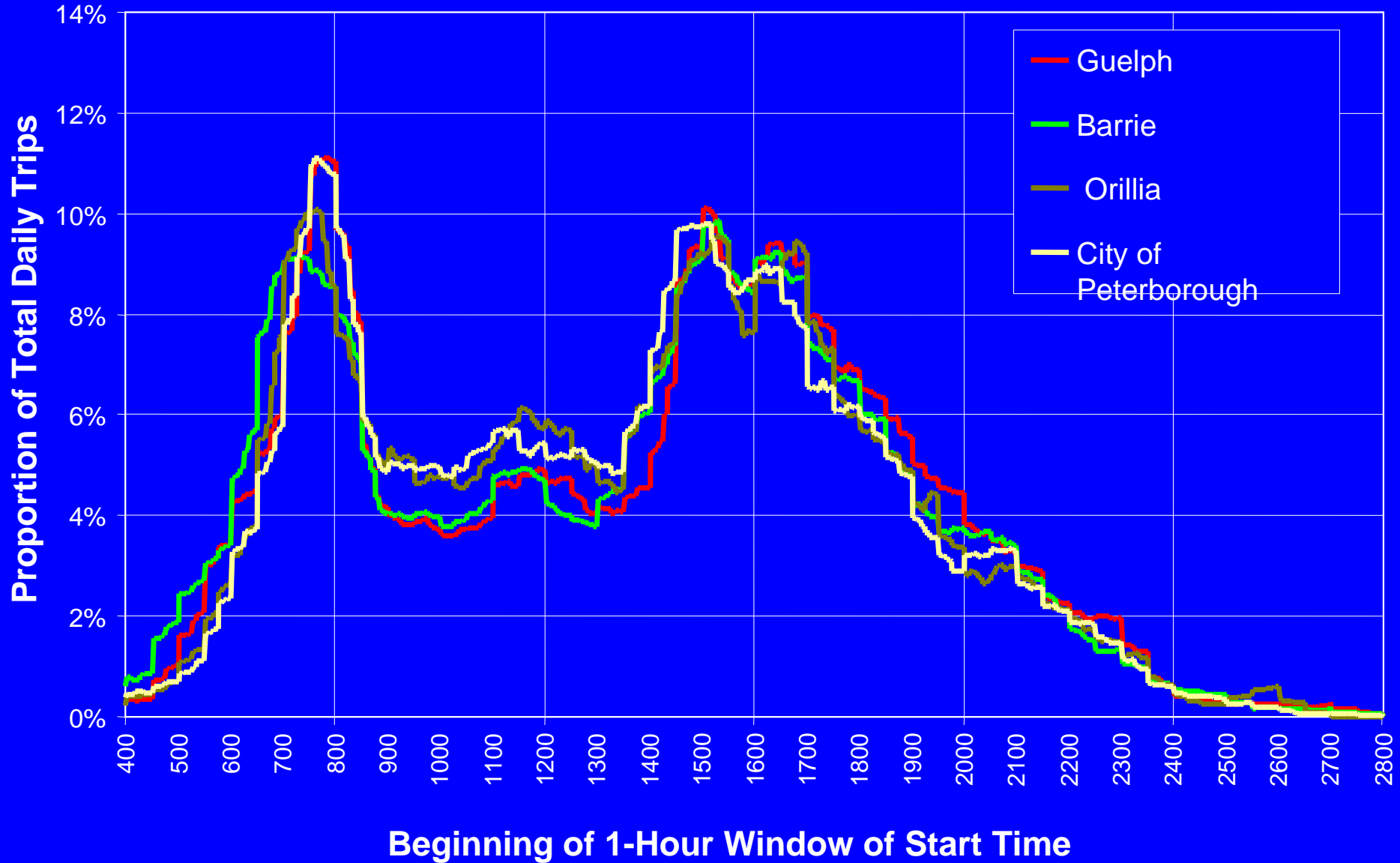
First Trip to Work Trip Length



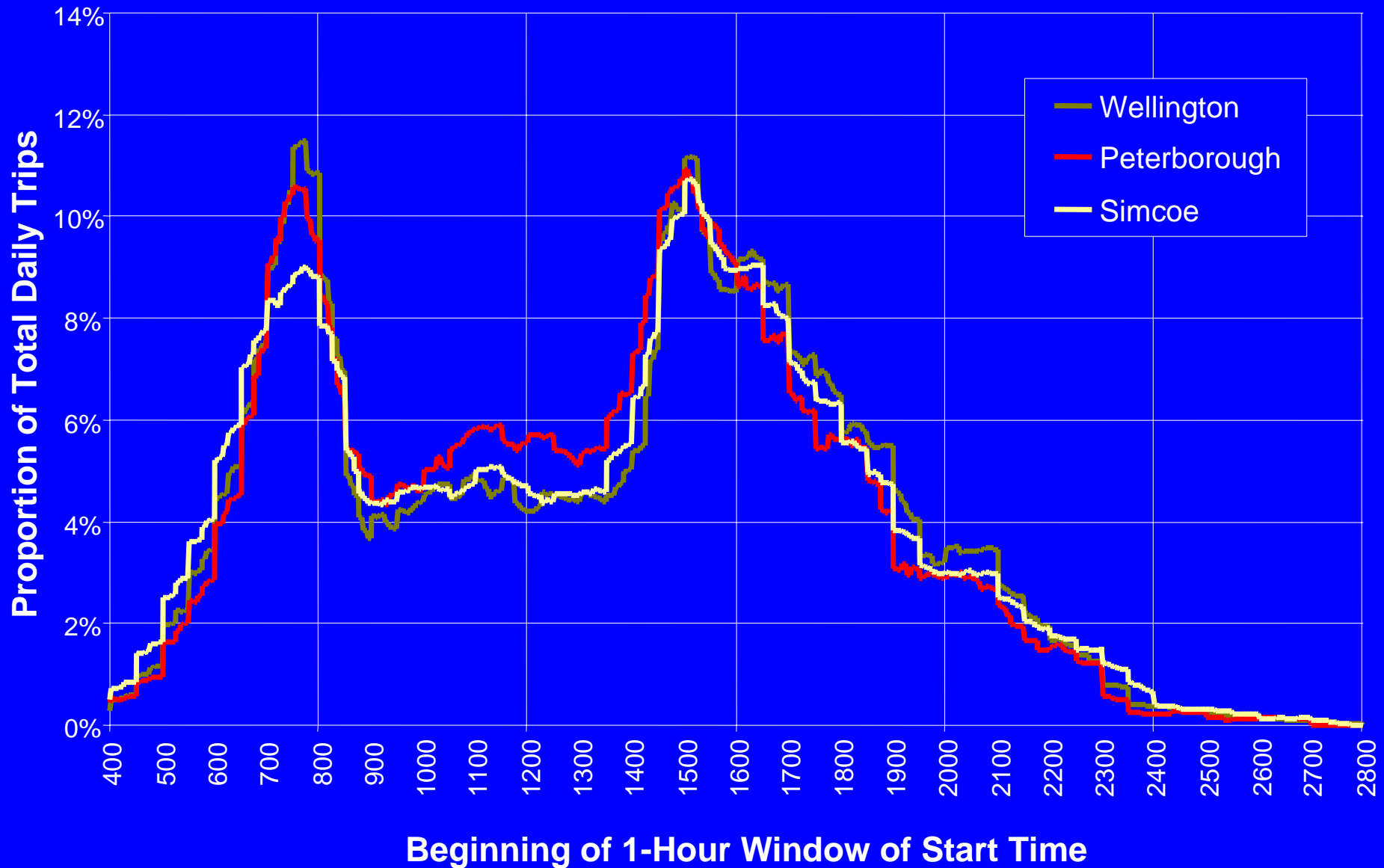
Trip Start Time



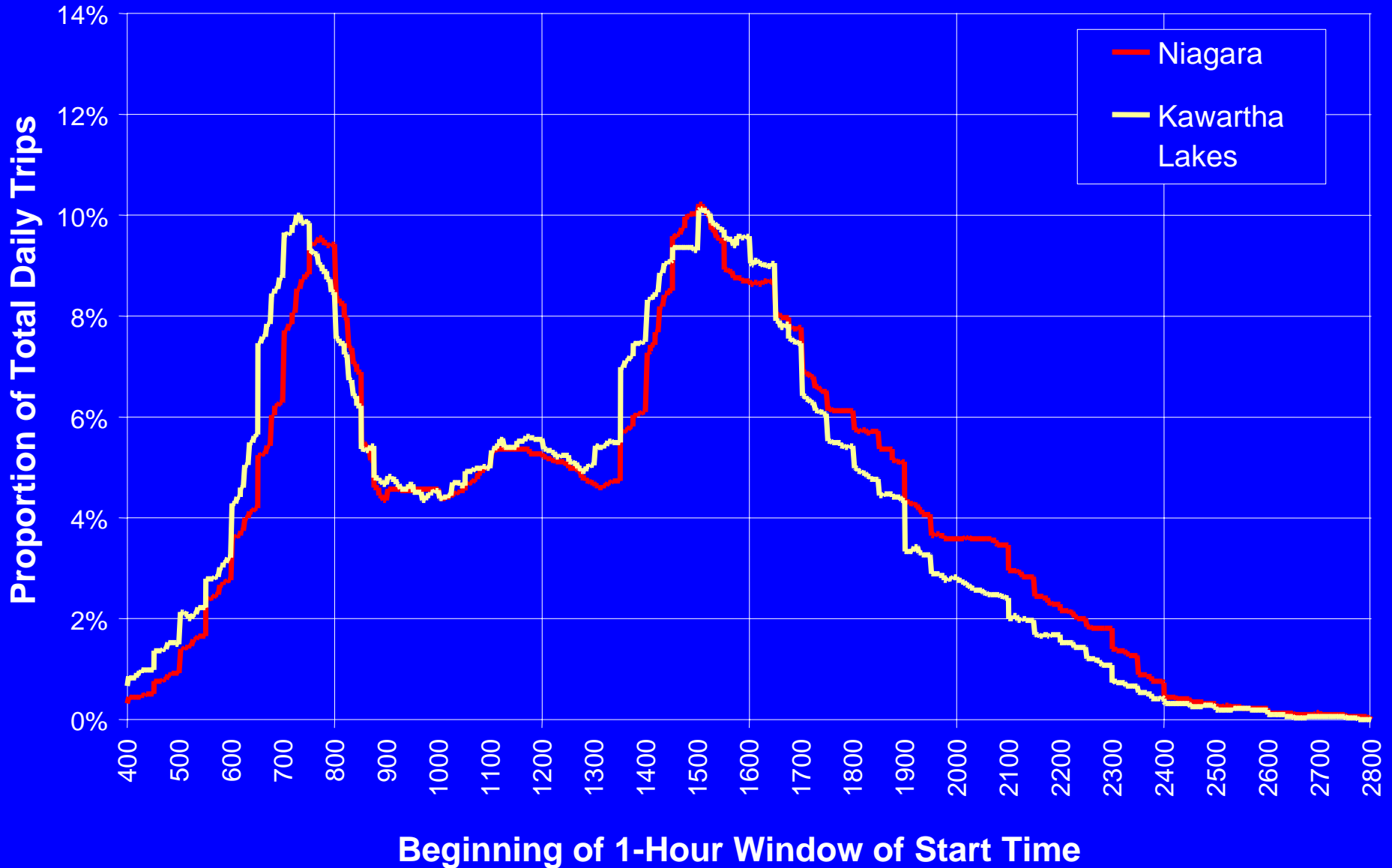
Trip Start Time



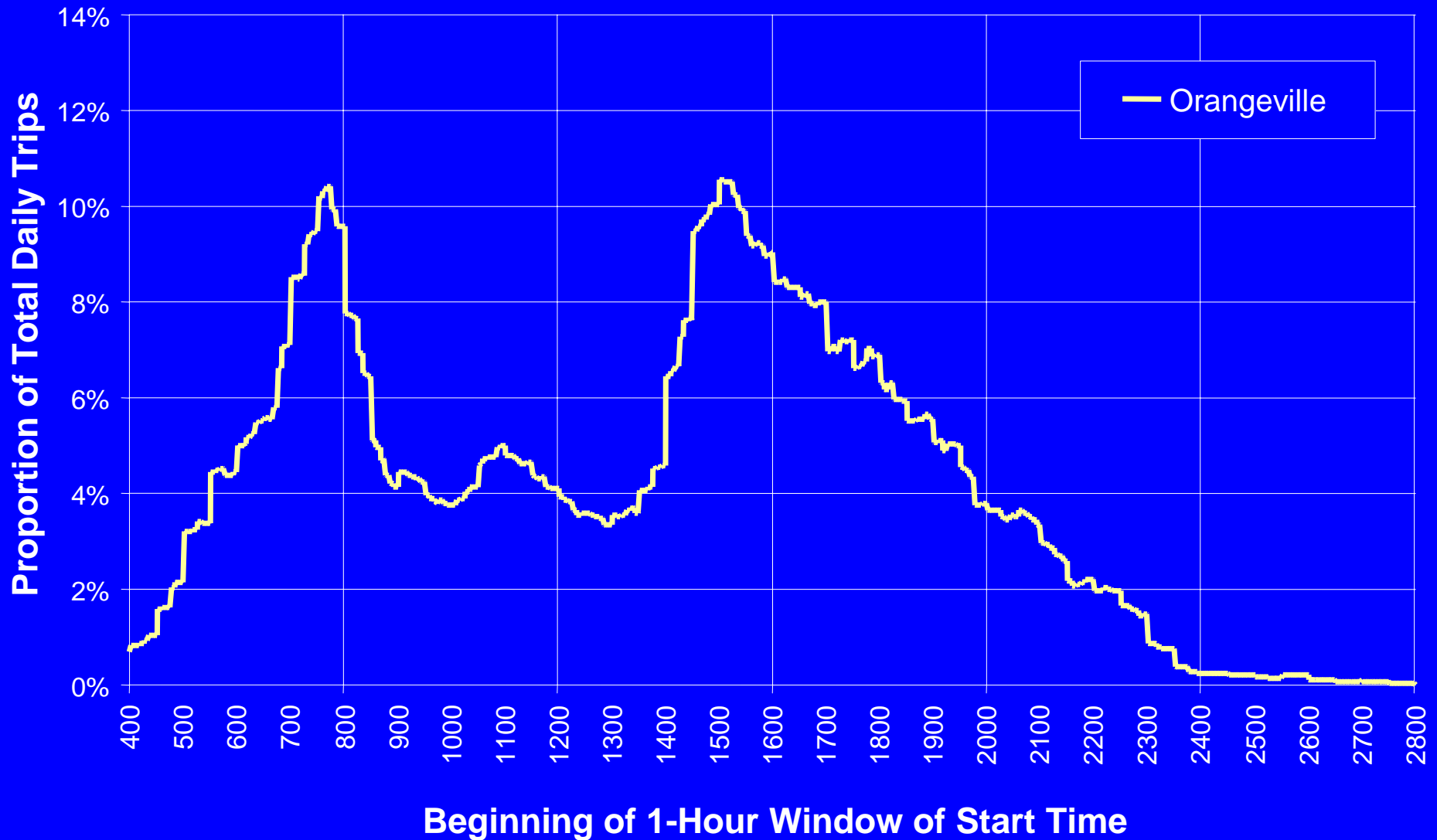
Trip Start Time



Trip Start Time



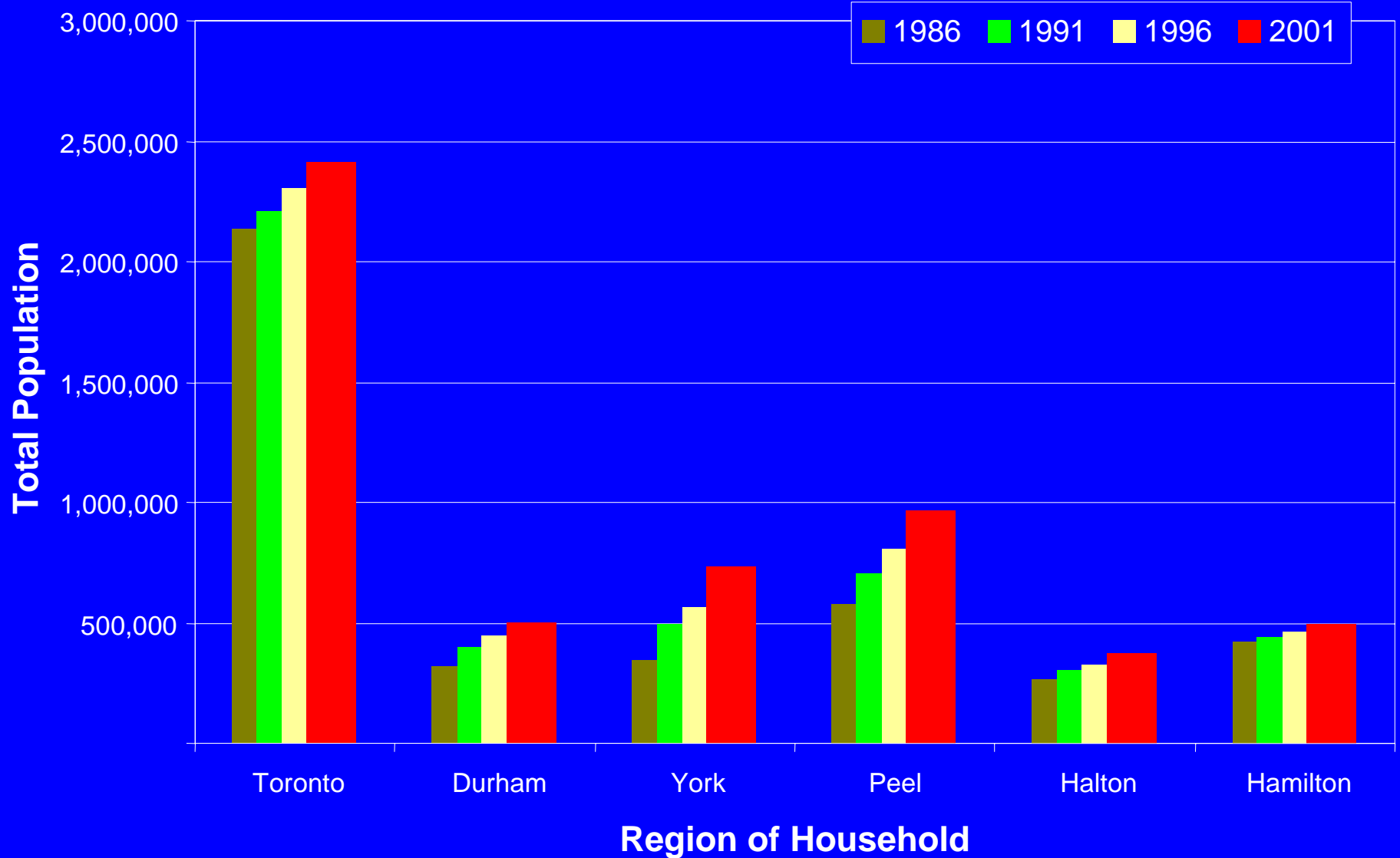
Trip Start Time



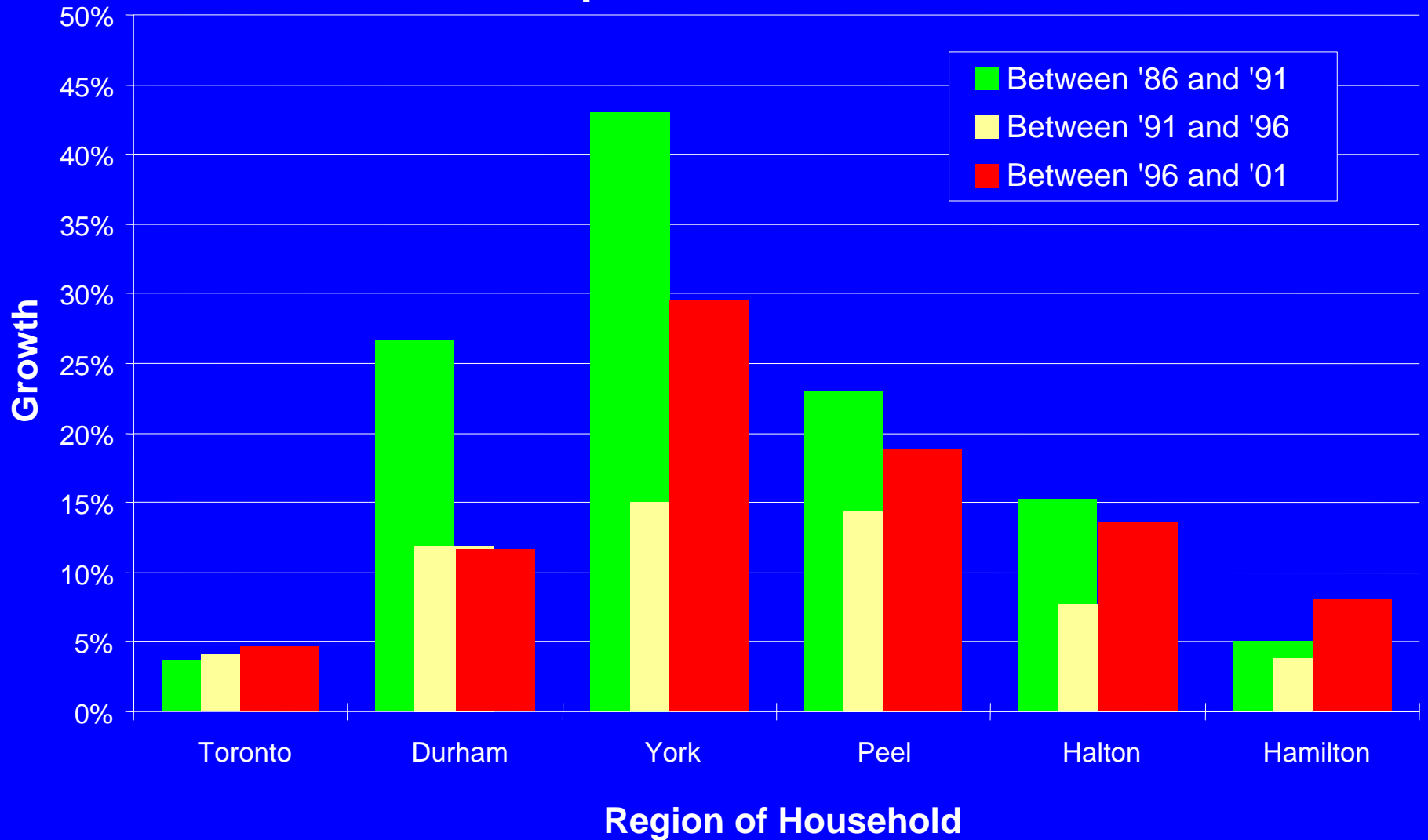
Time Series Analysis GTA plus Hamilton

1986, 1991, 1996 and 2001

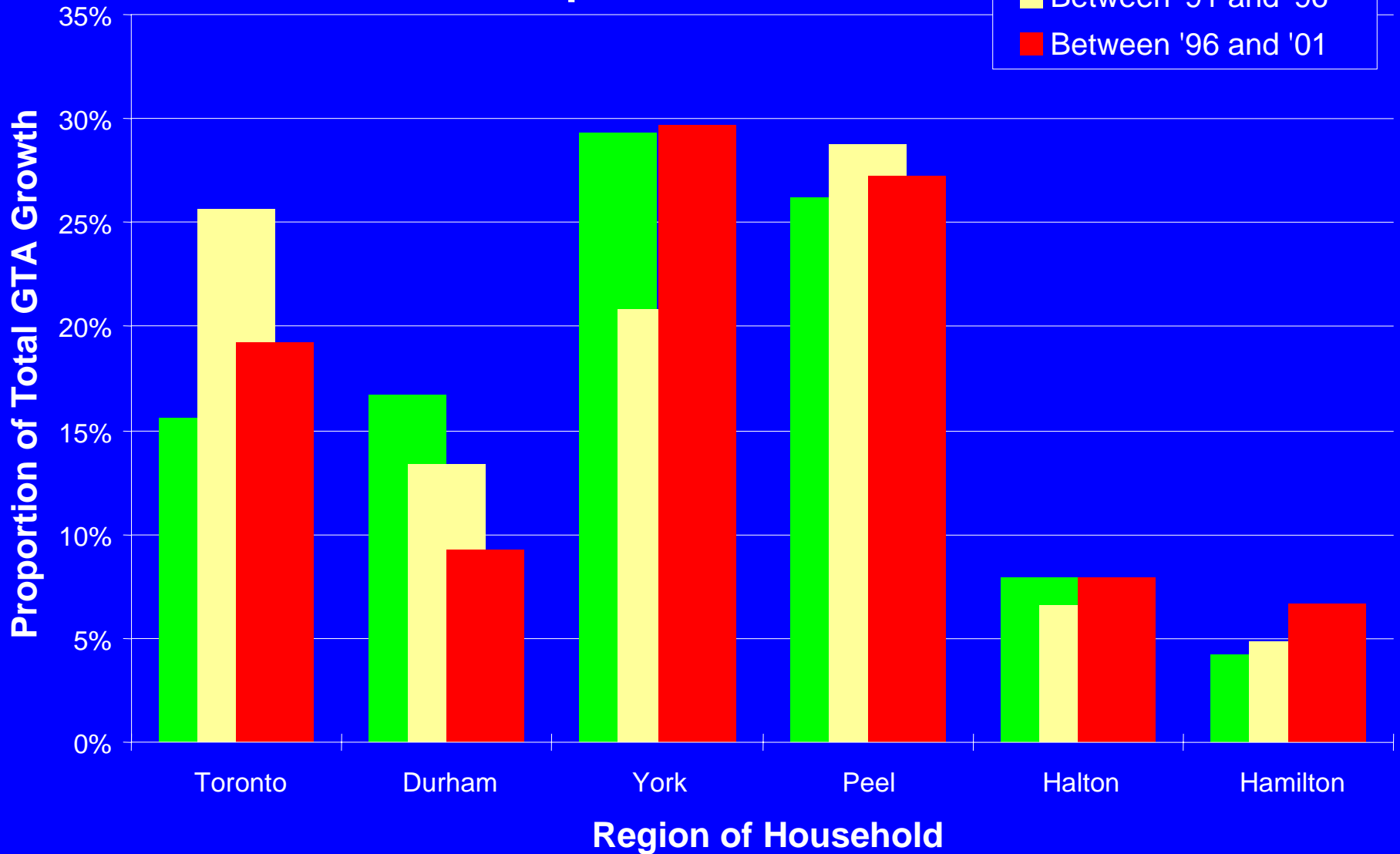
Population



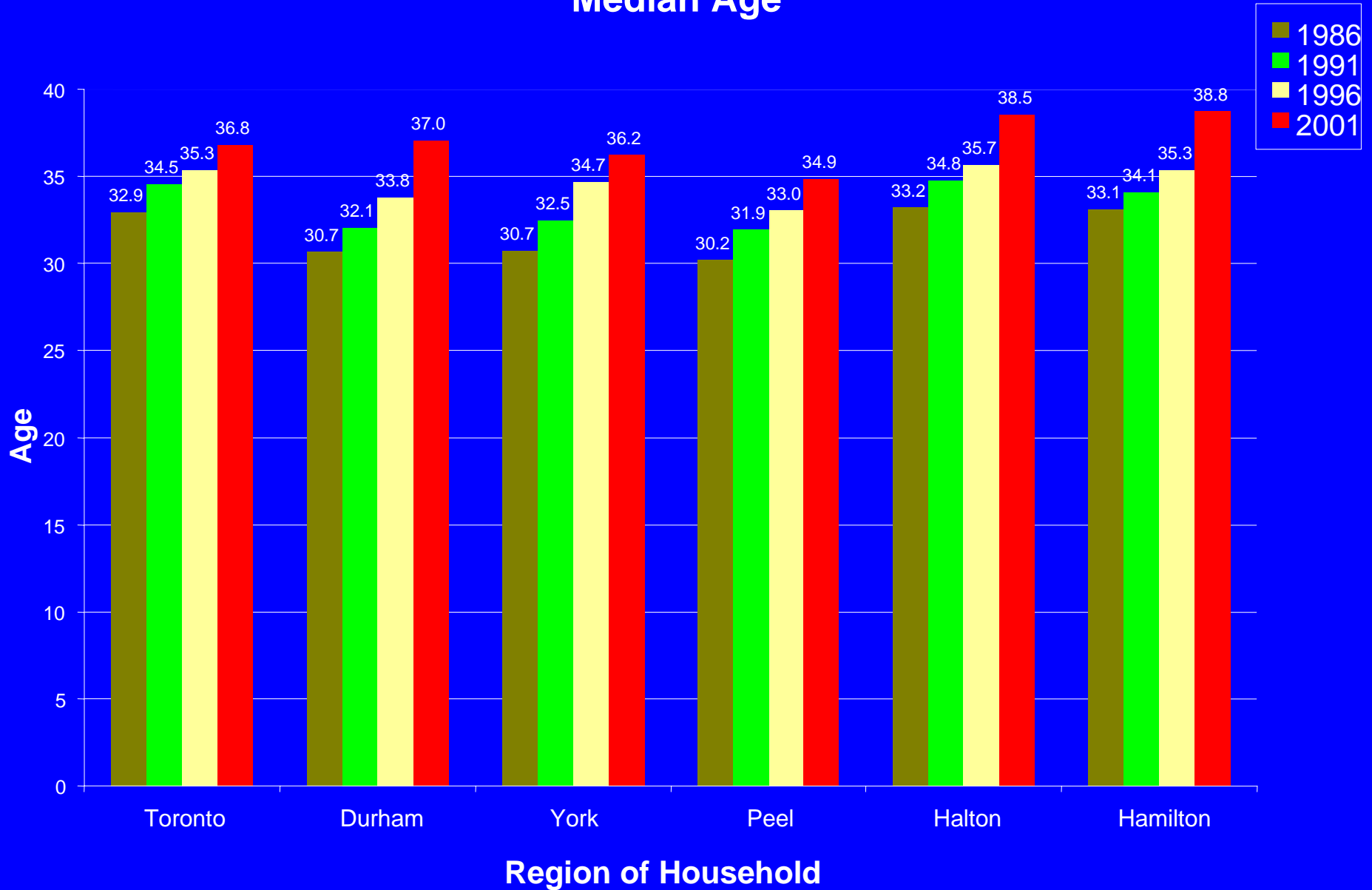
Five-Year Population Growth



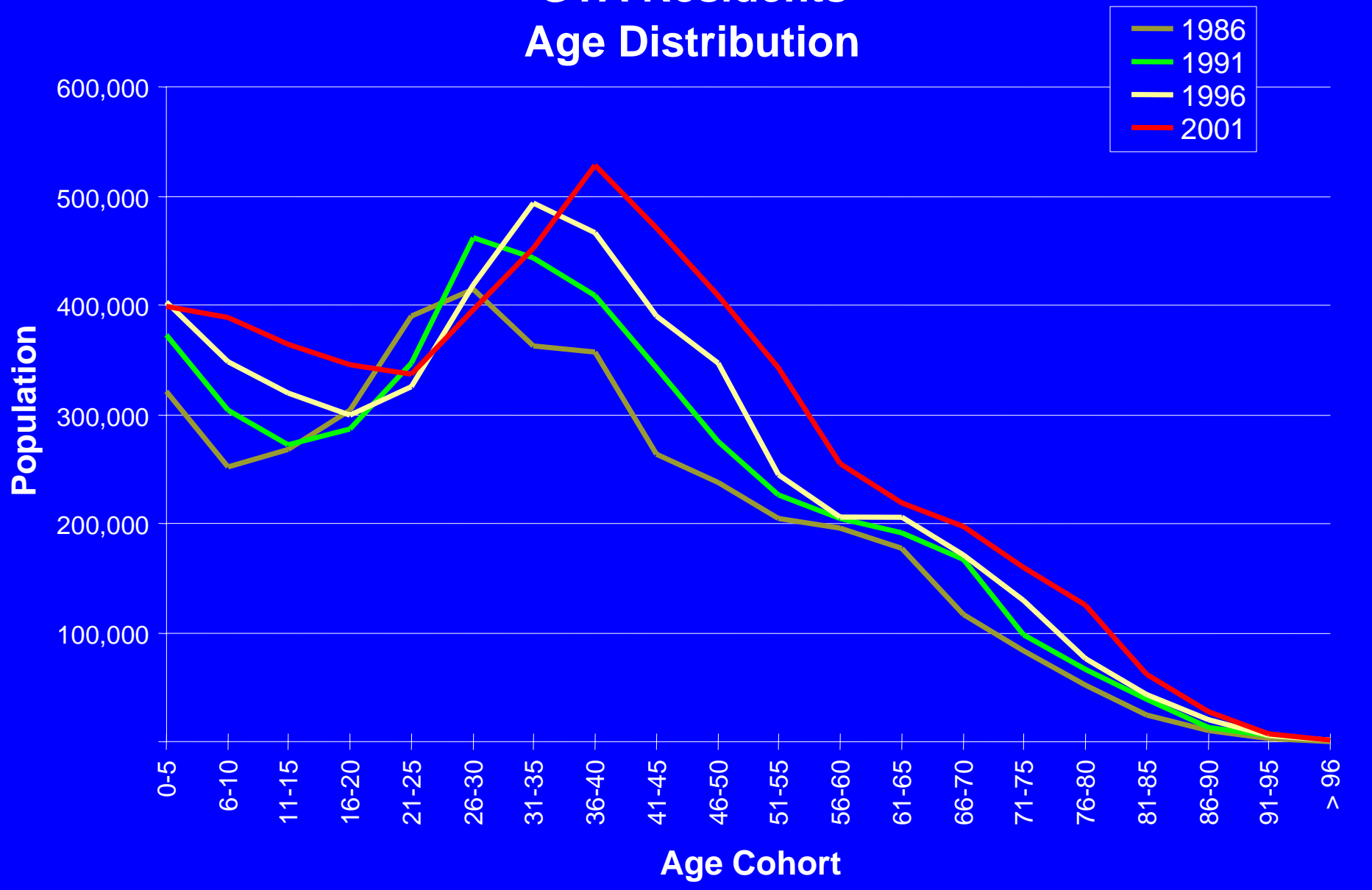
Five-Year Population Growth



Median Age



GTA Residents Age Distribution

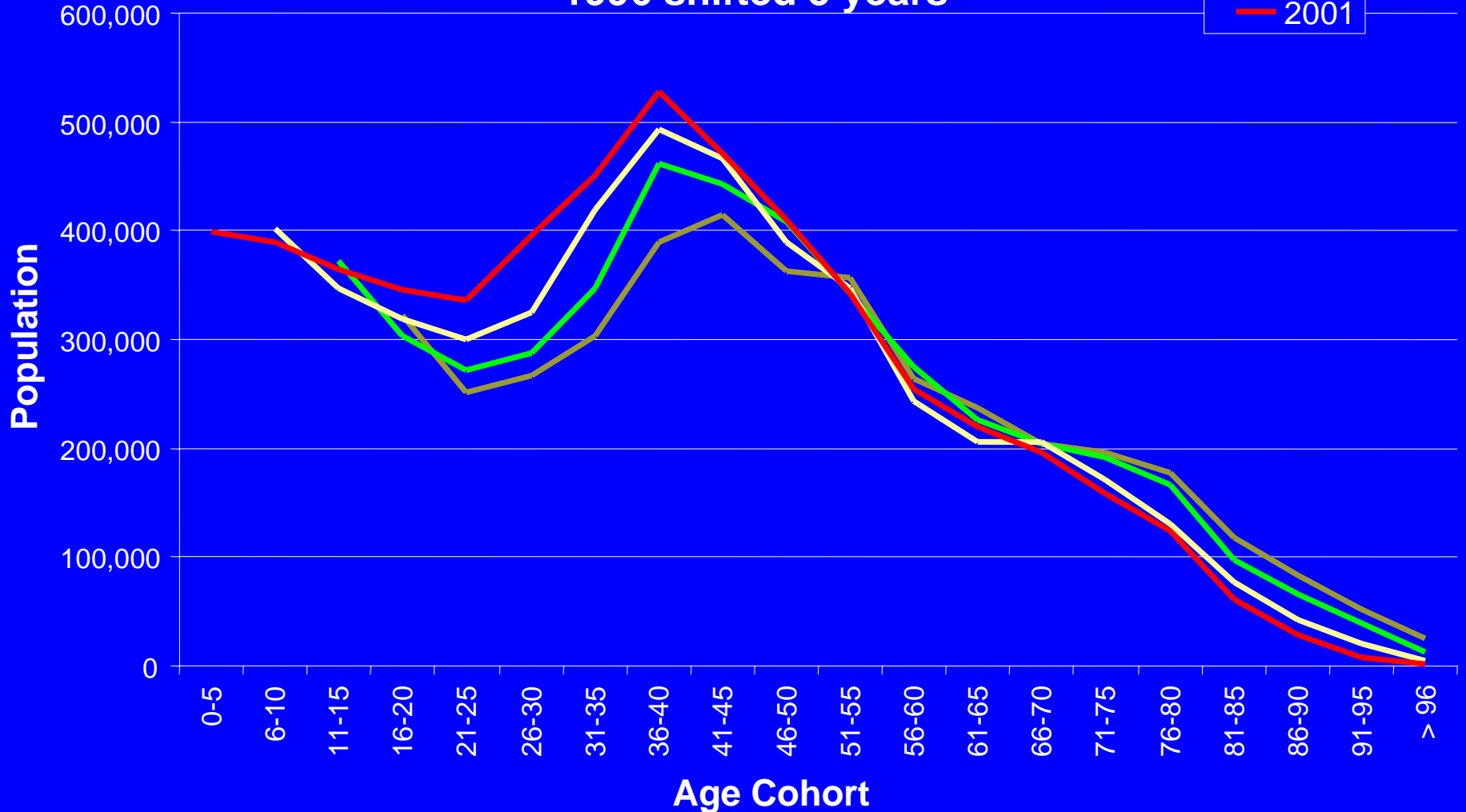
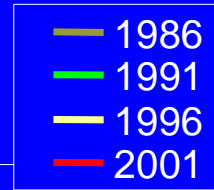


GTA Residents Age Distribution

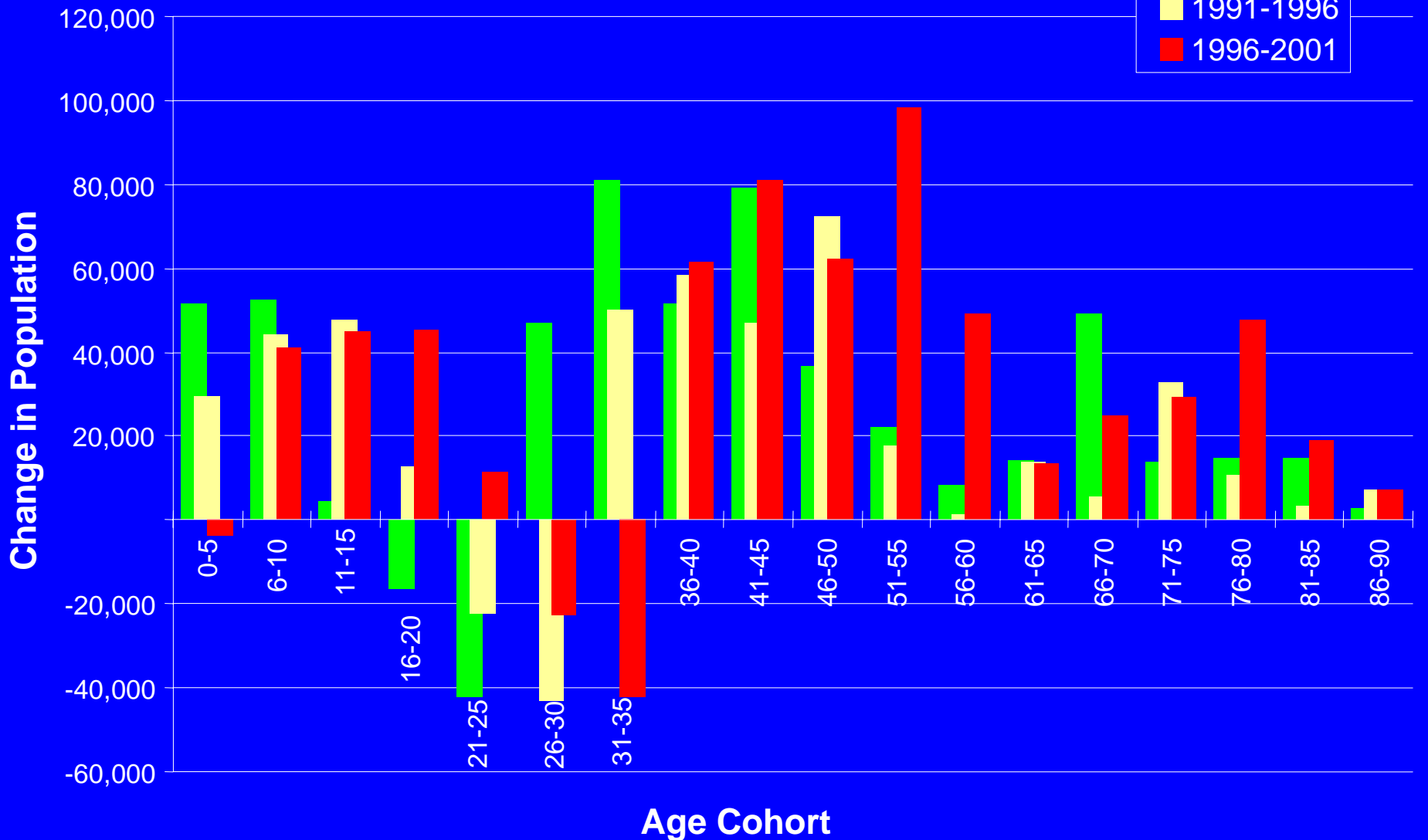
1986 Shifted 15 years

1991 shifted 10 years

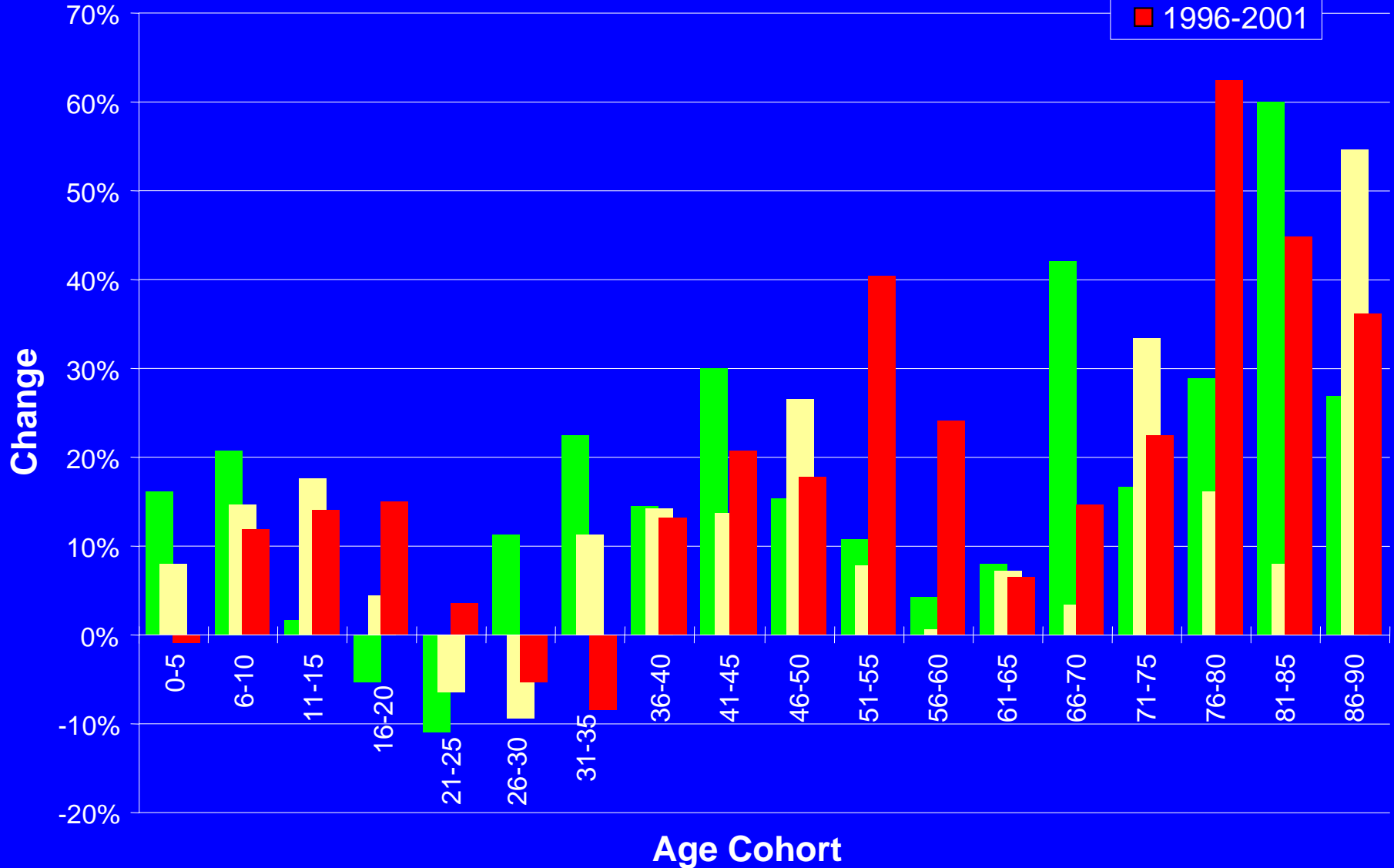
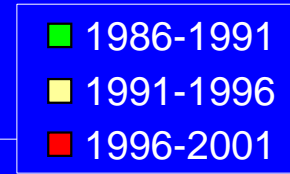
1996 shifted 5 years



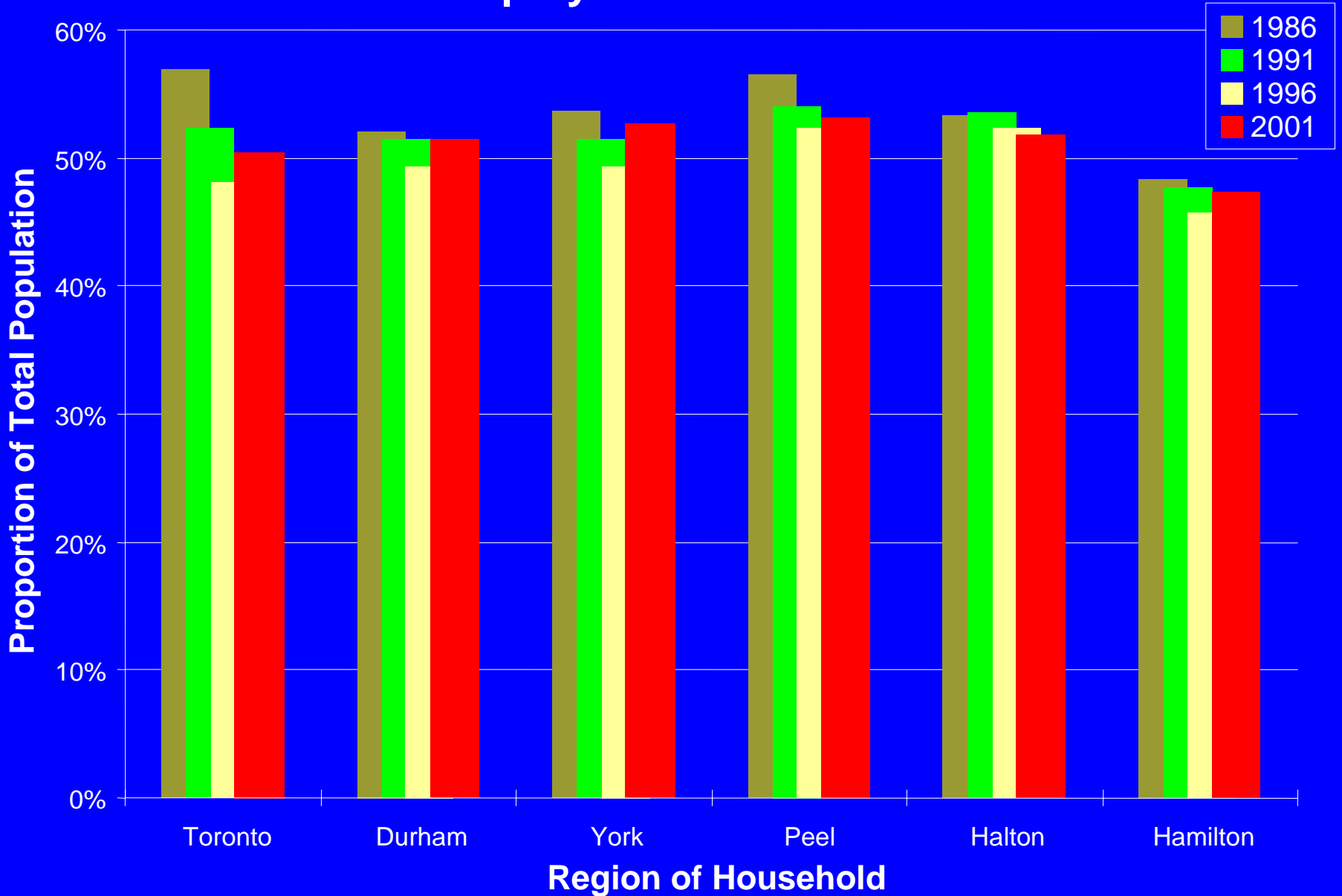
GTA Residents Change in Population



GTA Residents Change in Population



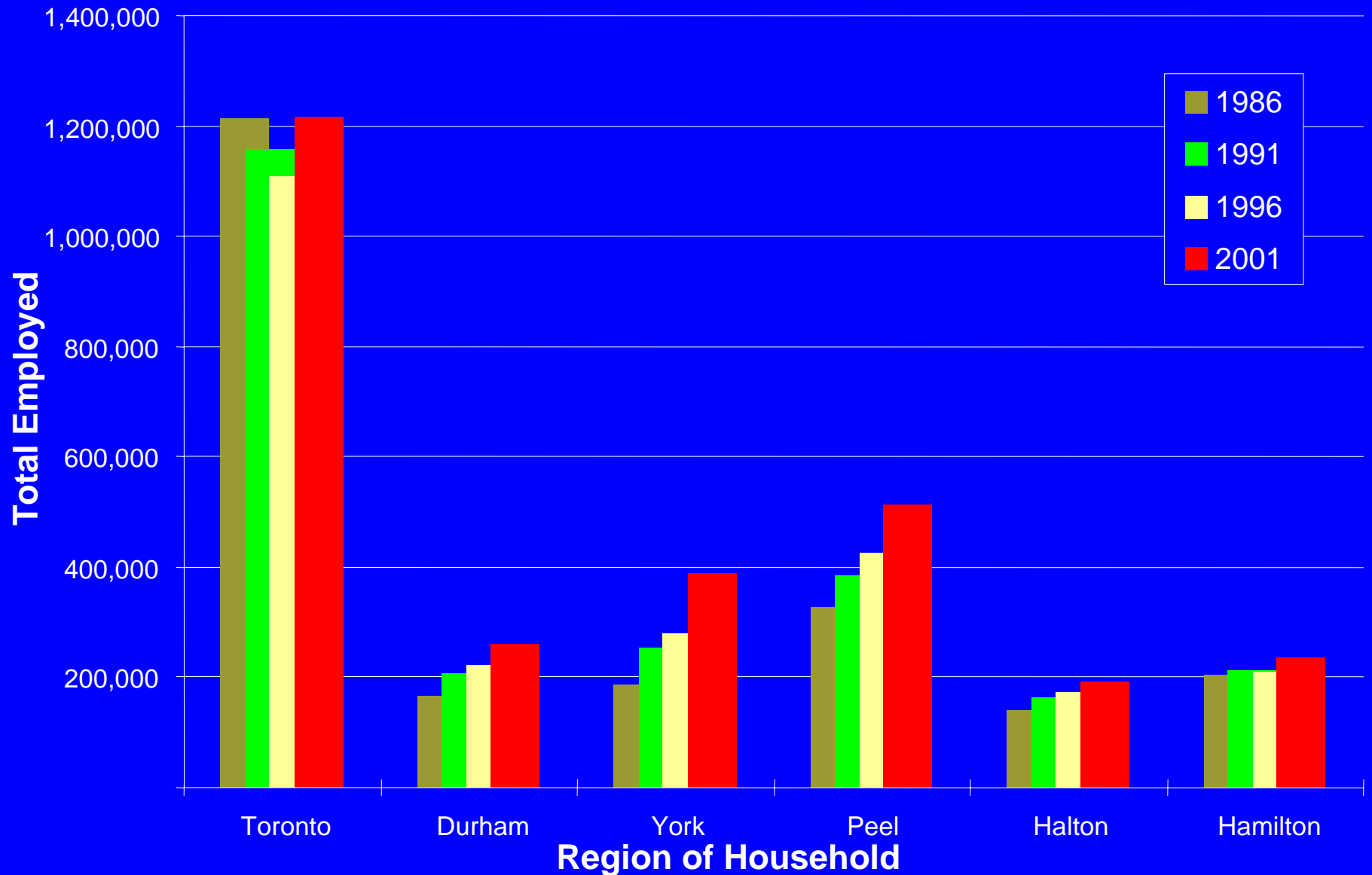
Employed Labour Force



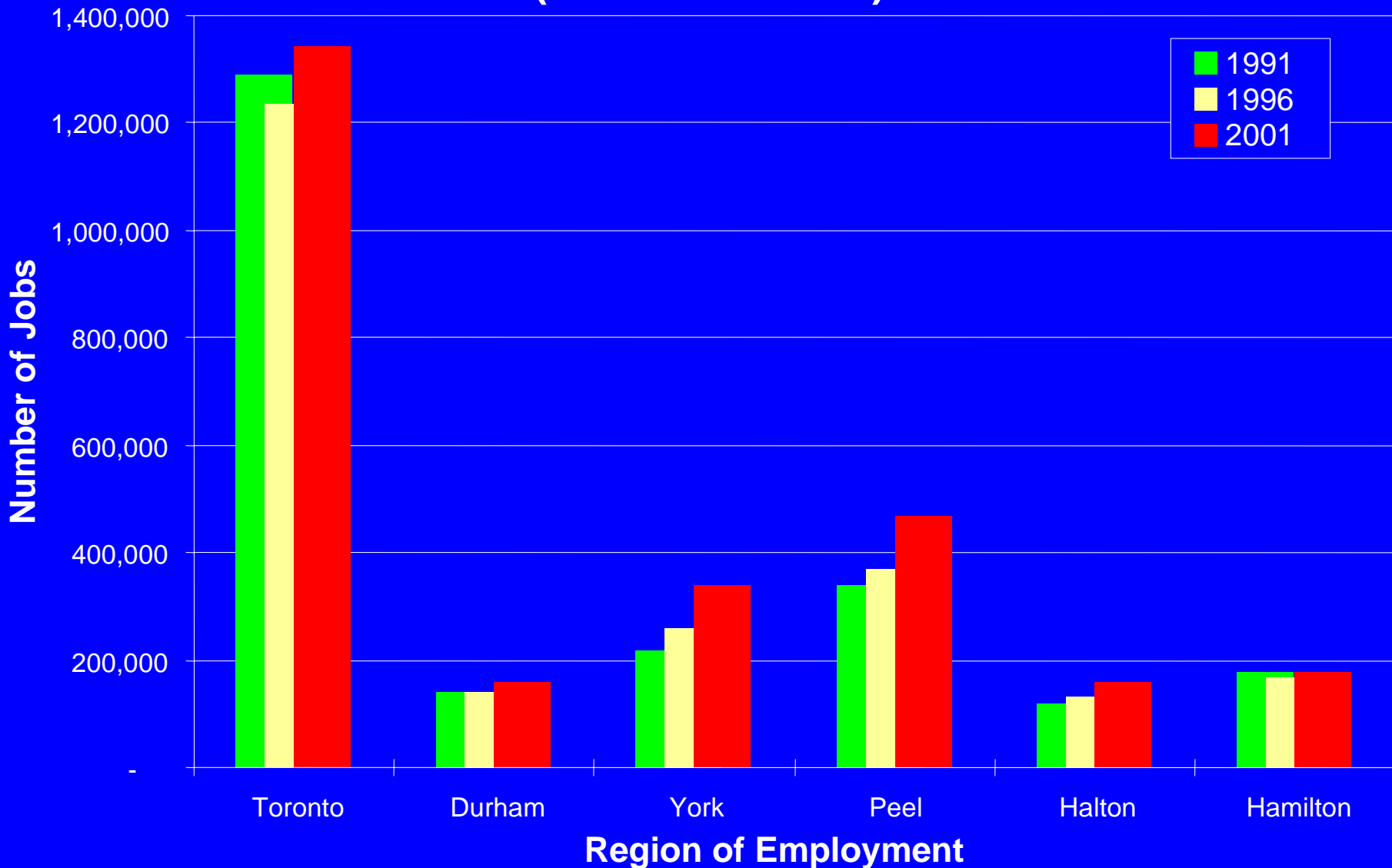
Employed Labour Force



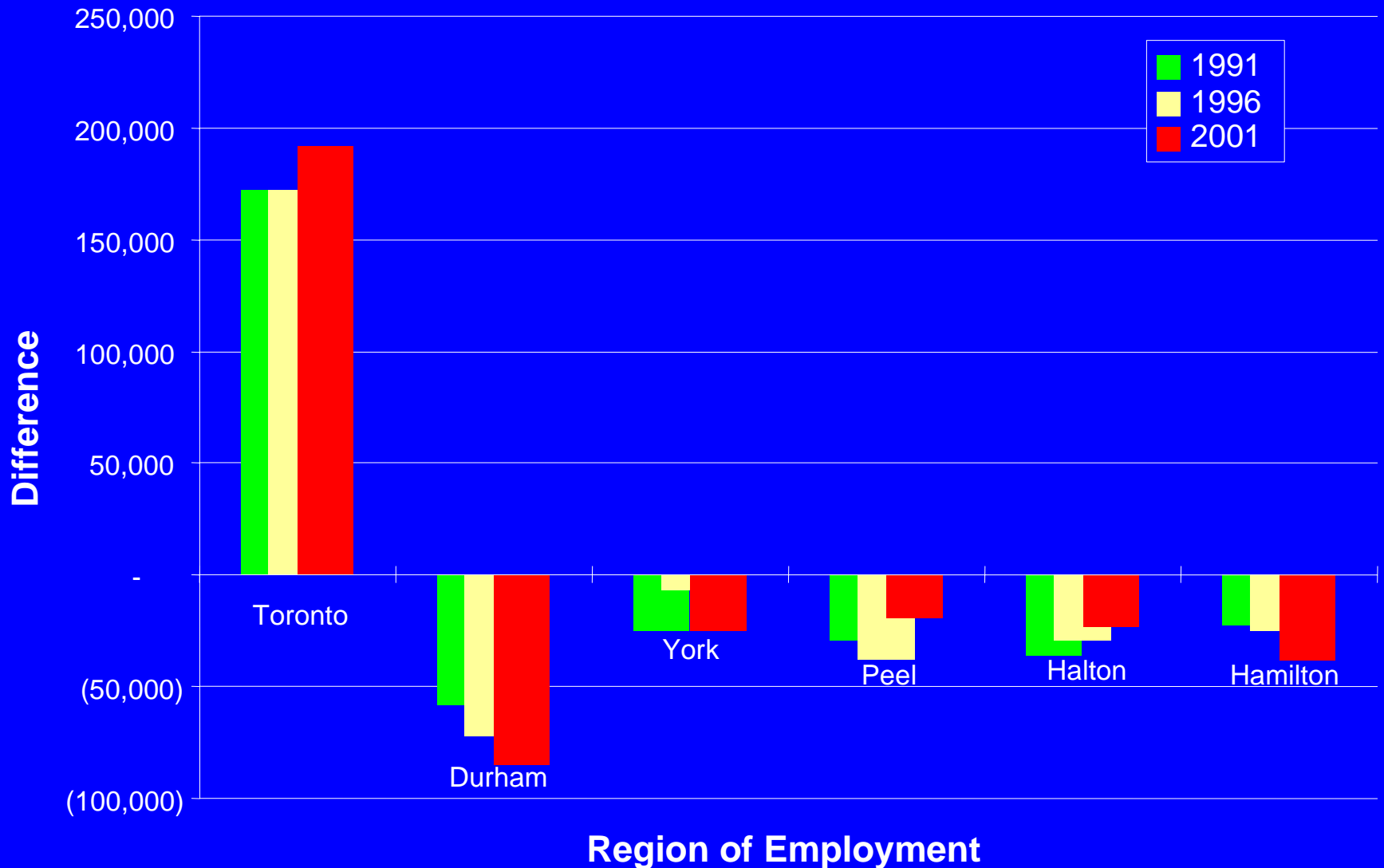
Employed Labour Force



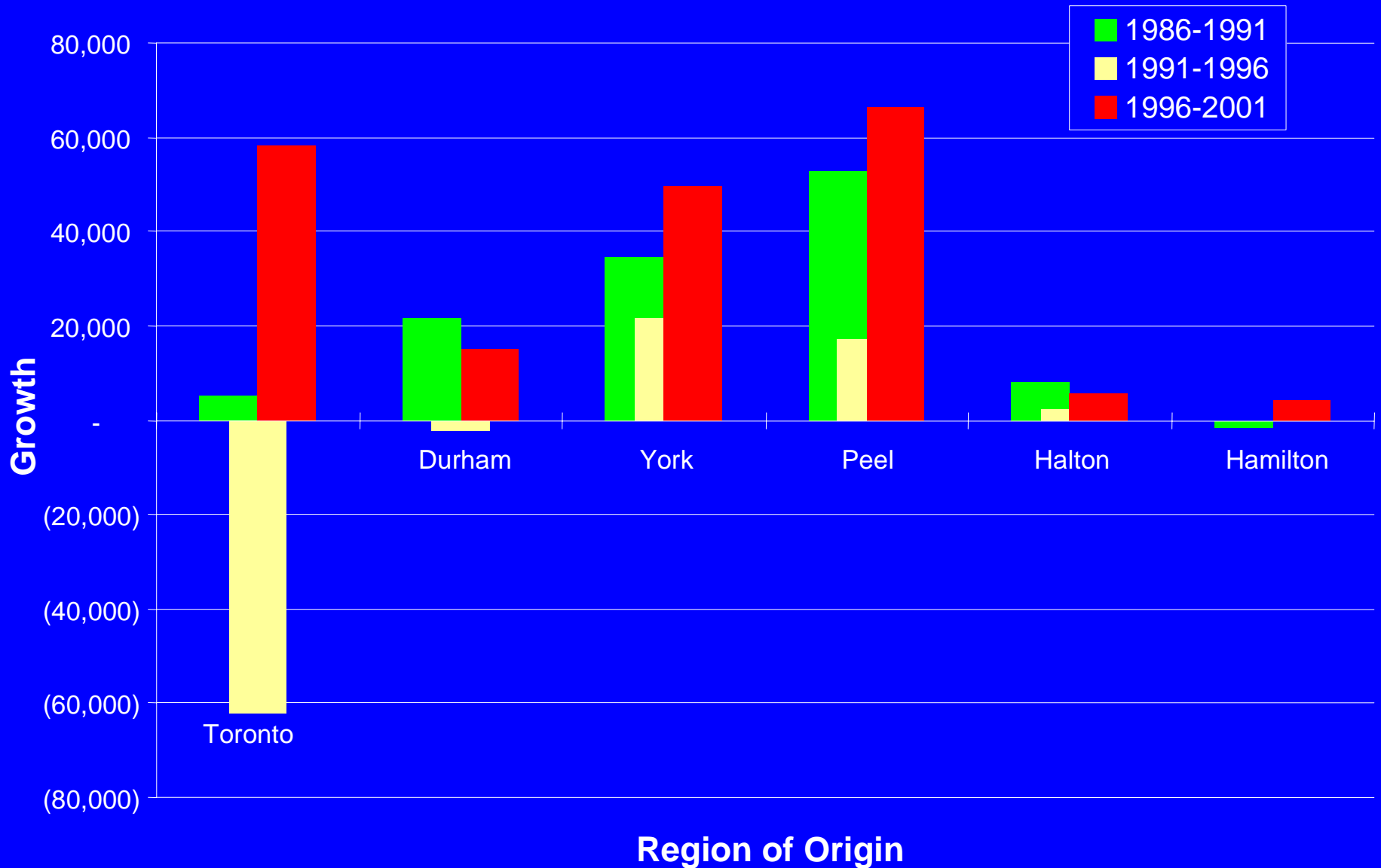
Employment (GTA Residents)



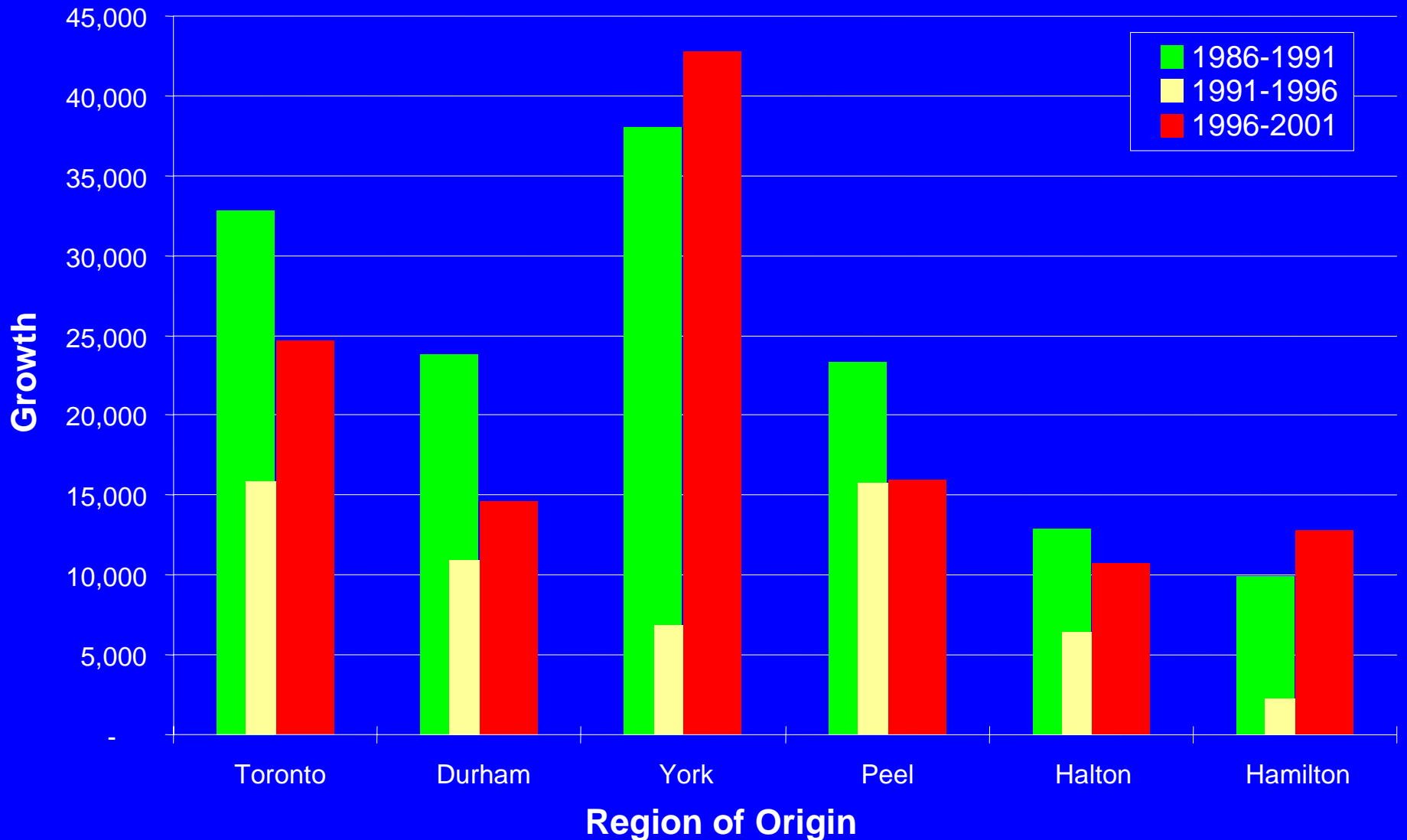
Employment Minus Employed Labour Force (GTA Residents to GTA Employment)



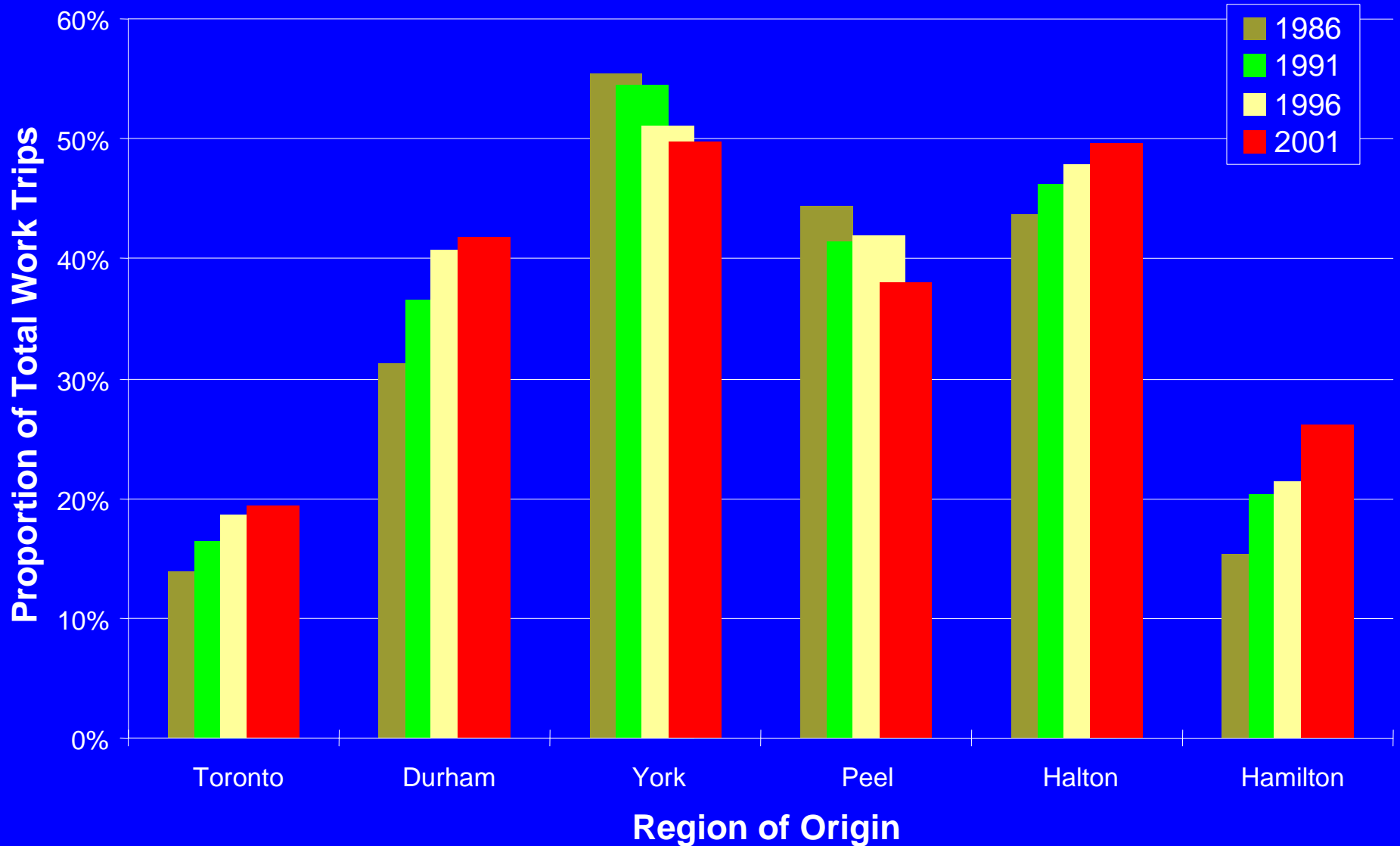
Intra-Regional Work Trips



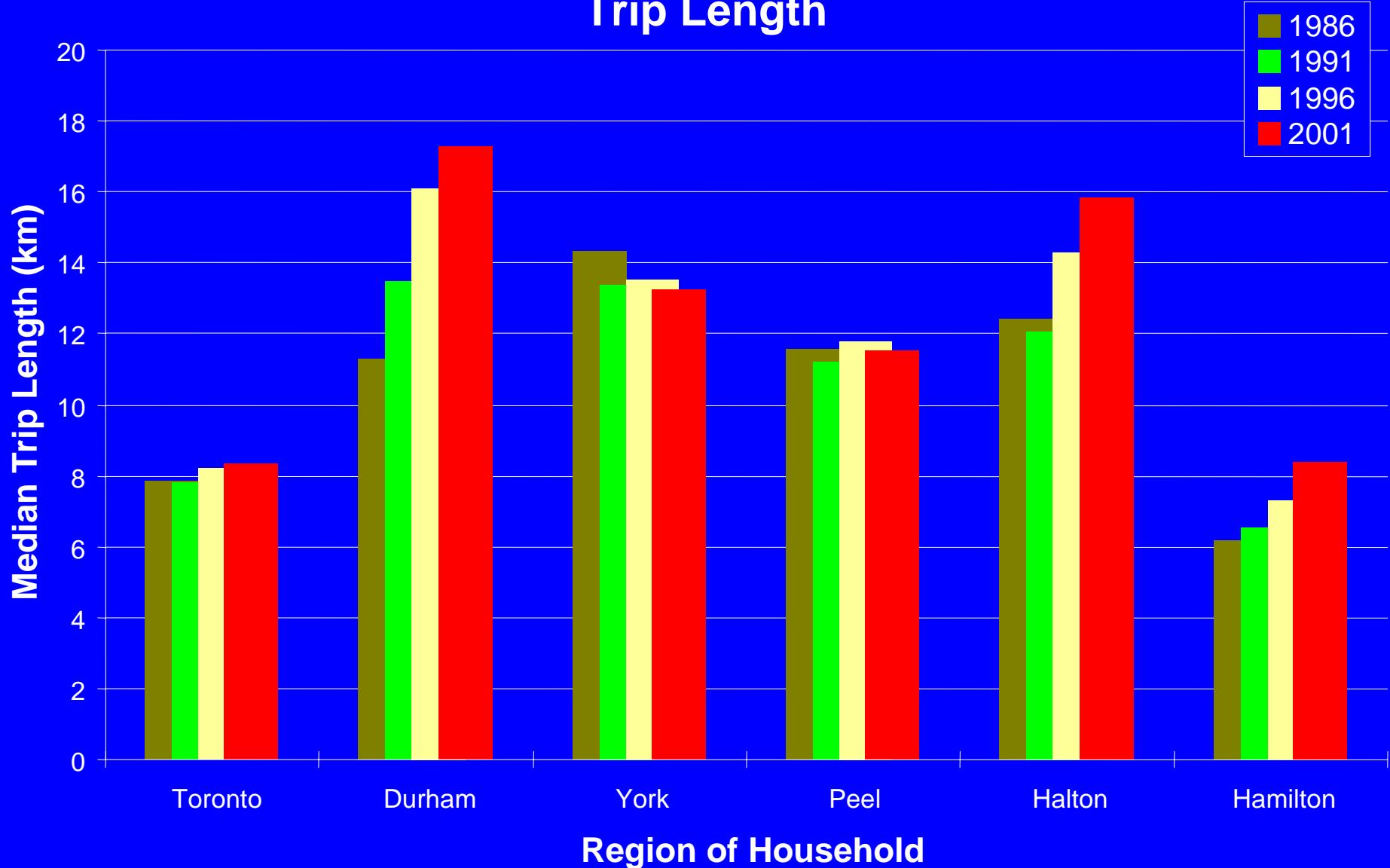
Inter-Regional Work Trips (Internal to the GTA)



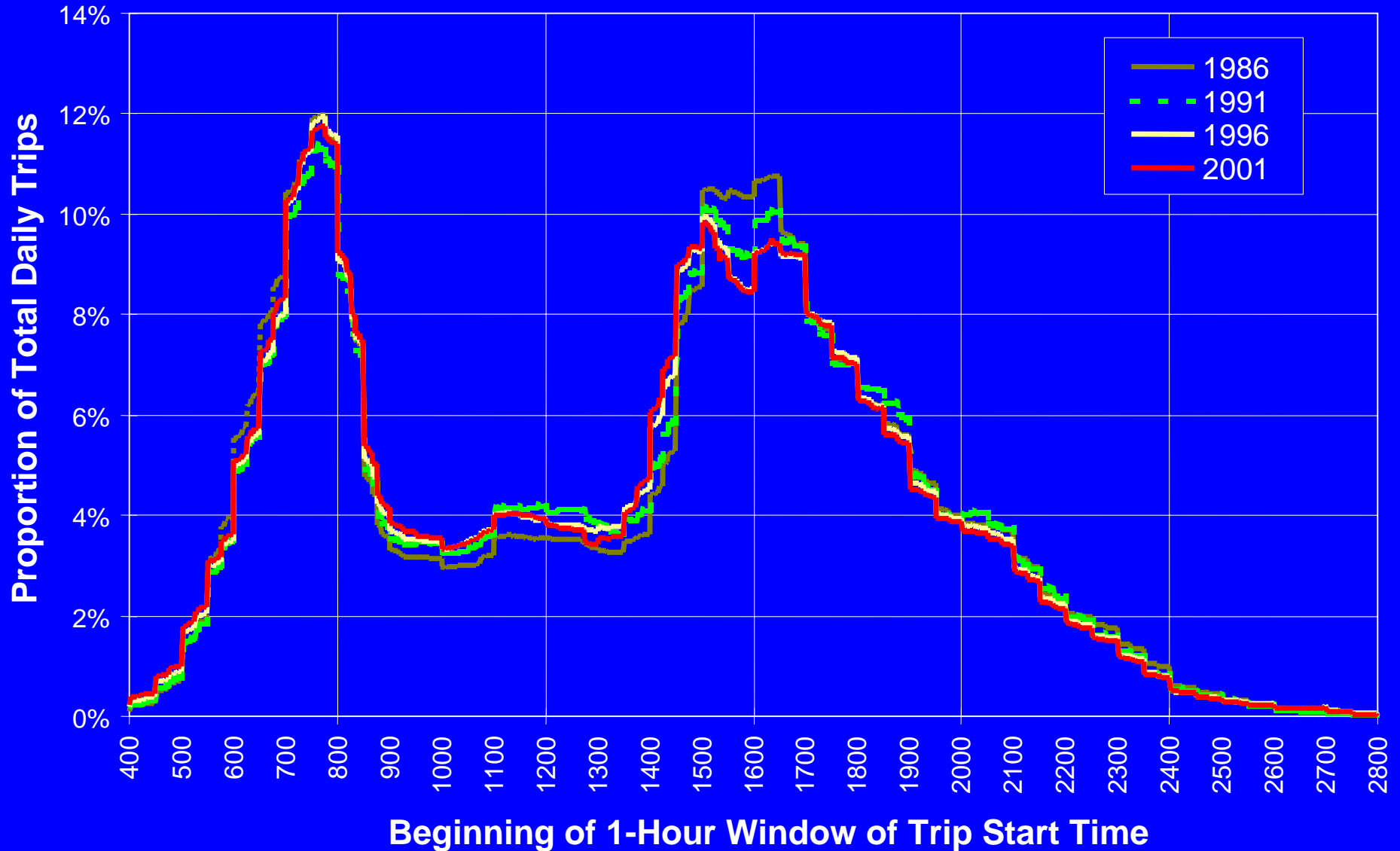
Inter-Regional Work Trips



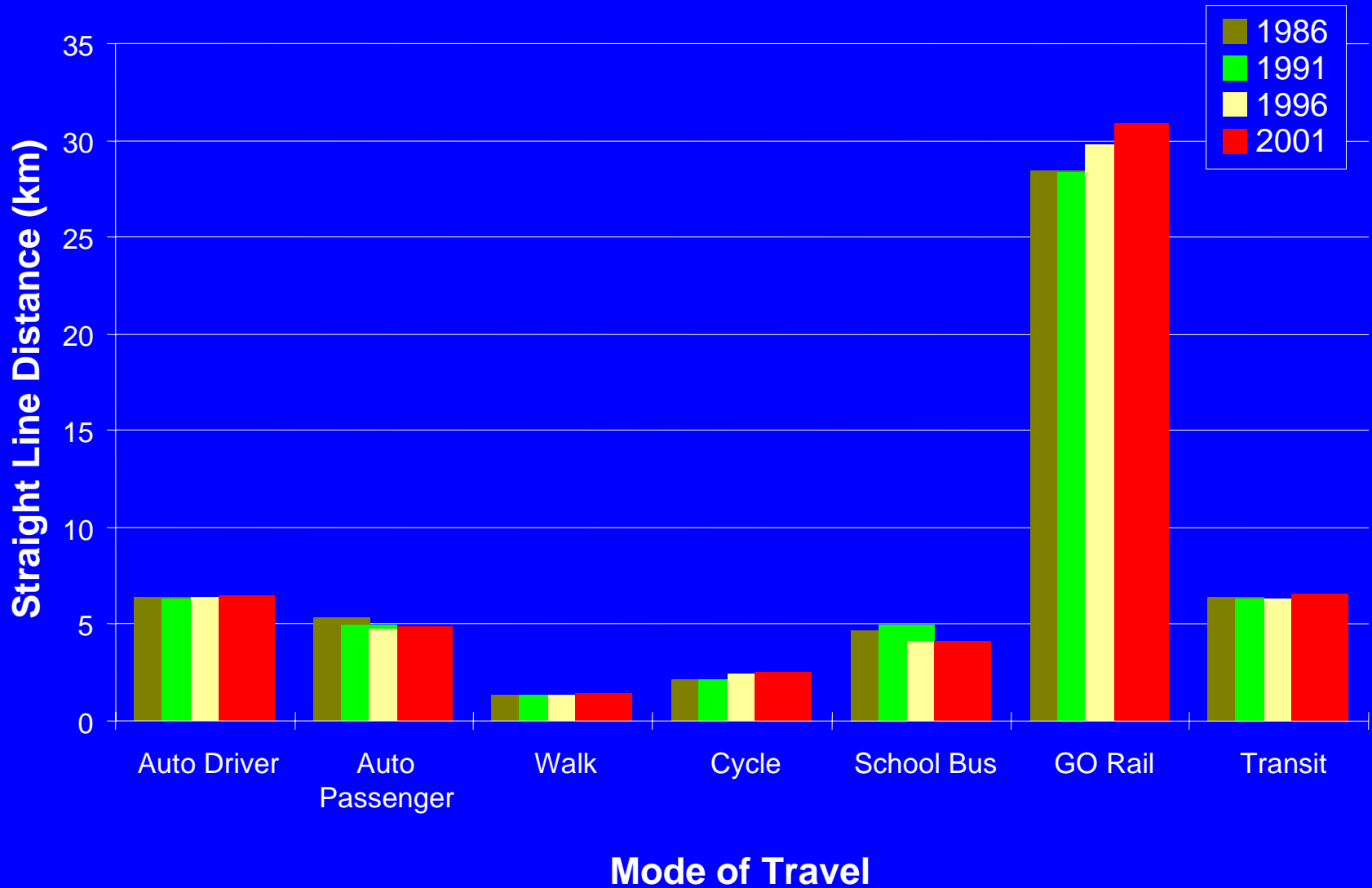
First Trip to Work Trip Length



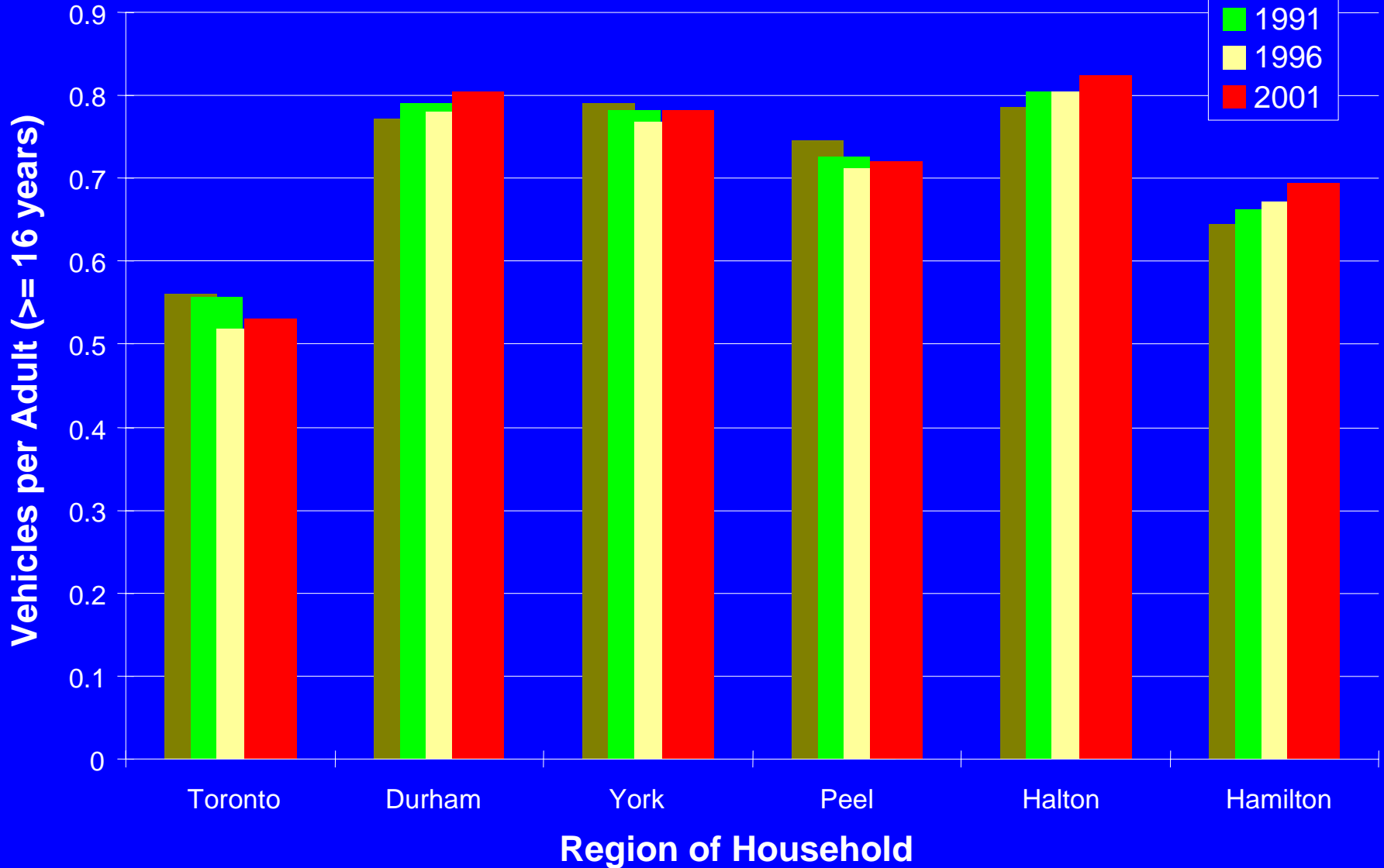
GTA Residents Trip Start Time



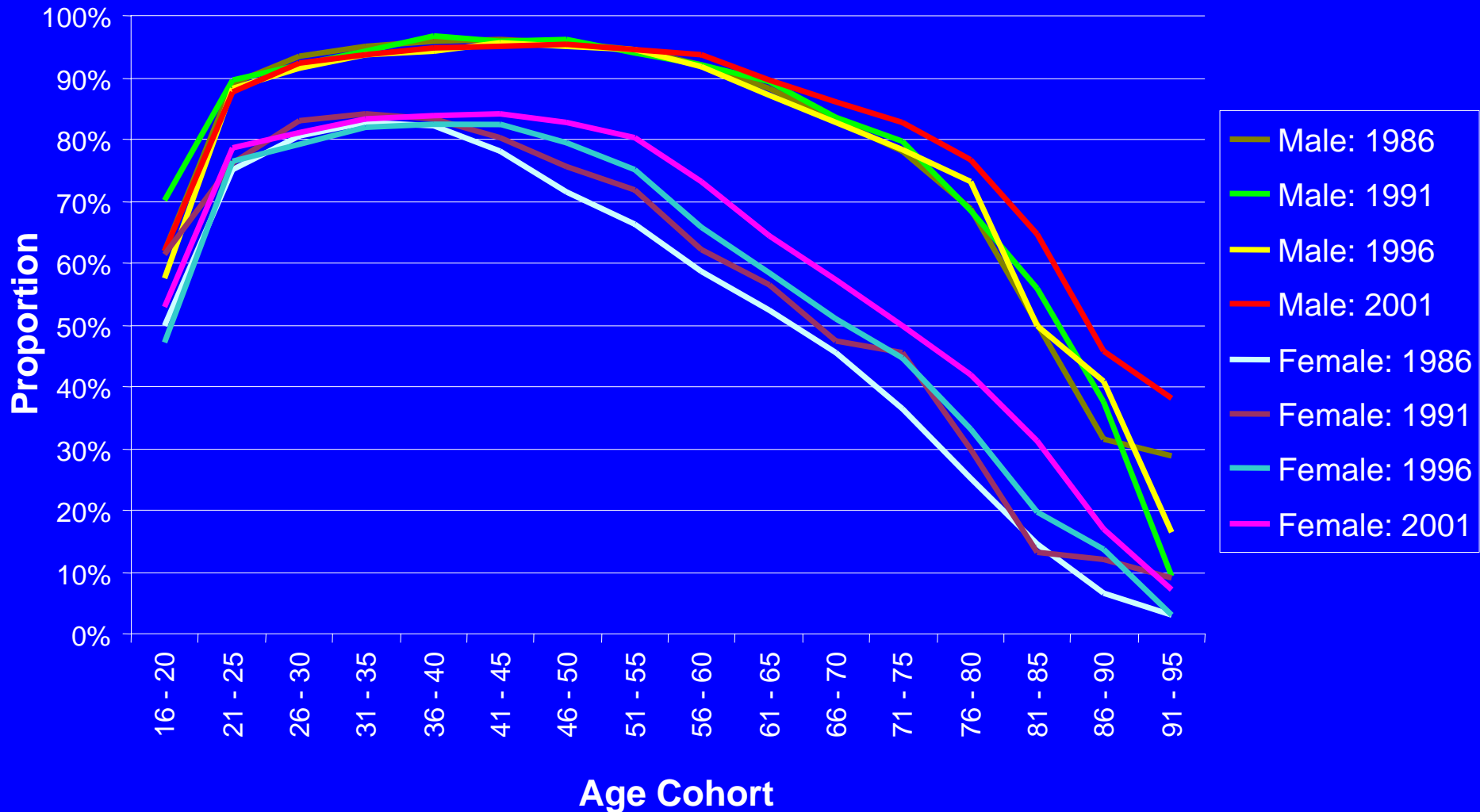
GTA Residents Median Trip Length



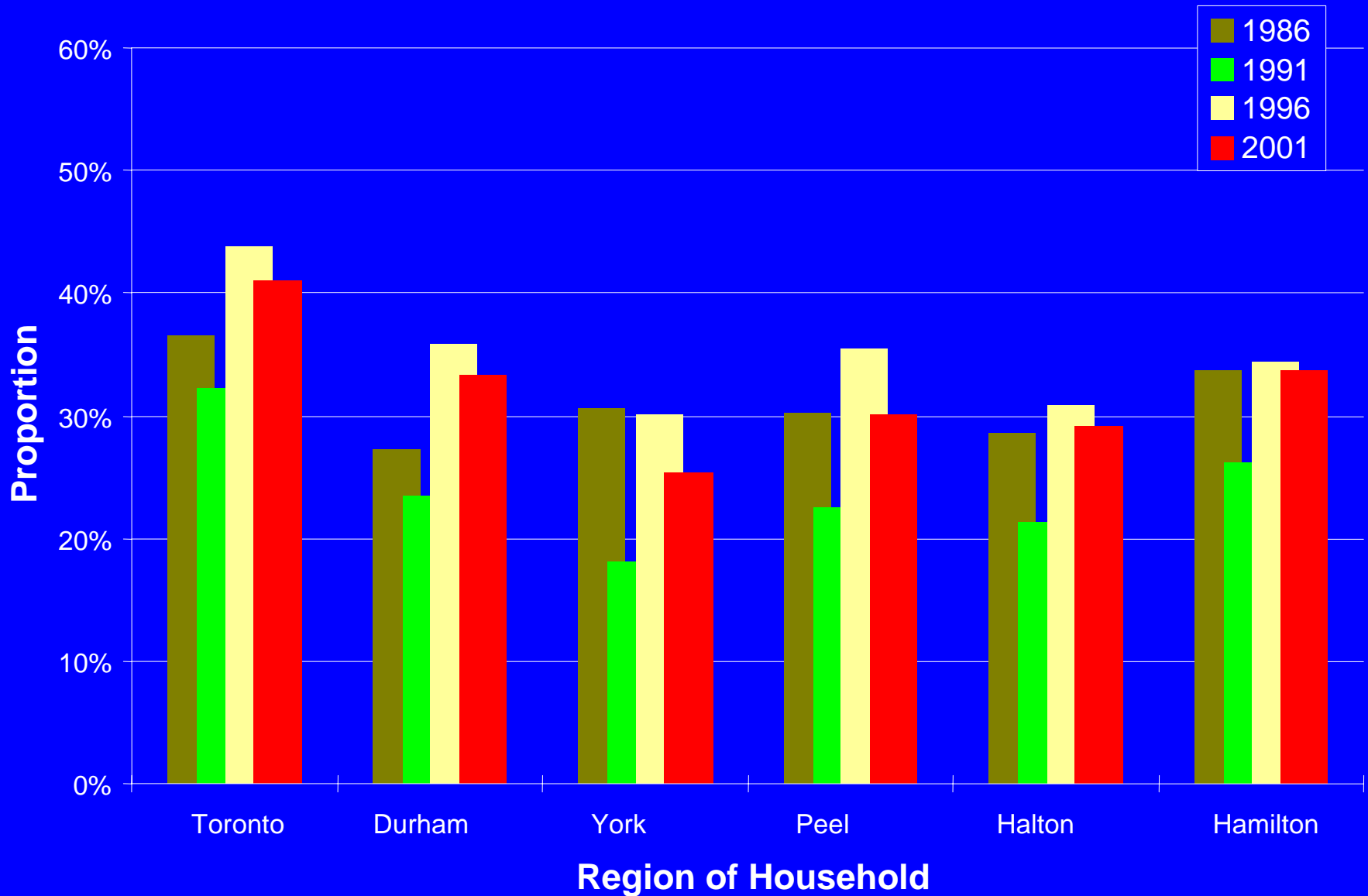
GTA Residents Vehicle Availability



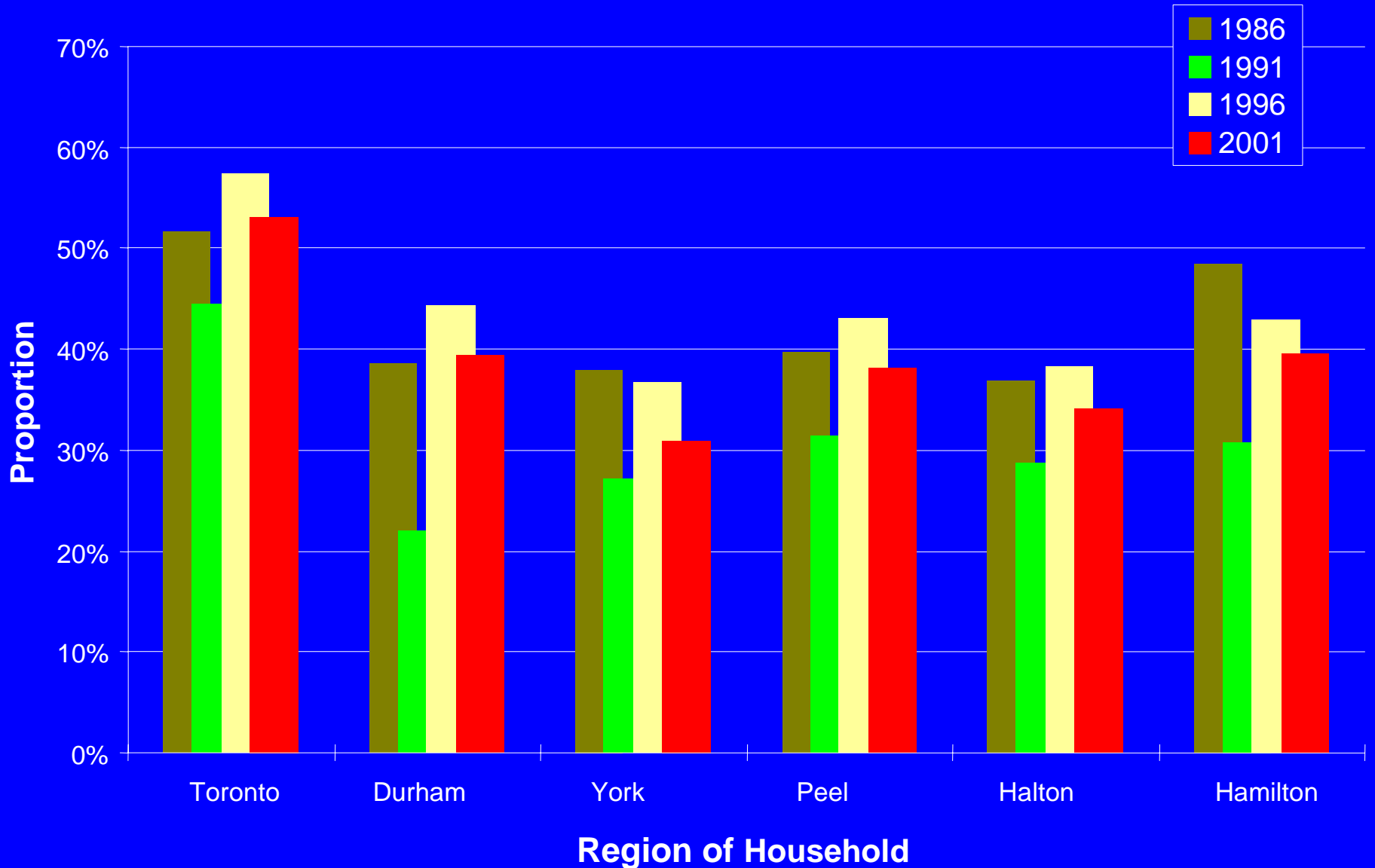
Proportion of GTA Adults (≥ 16 yrs.) With a Driver's Licence



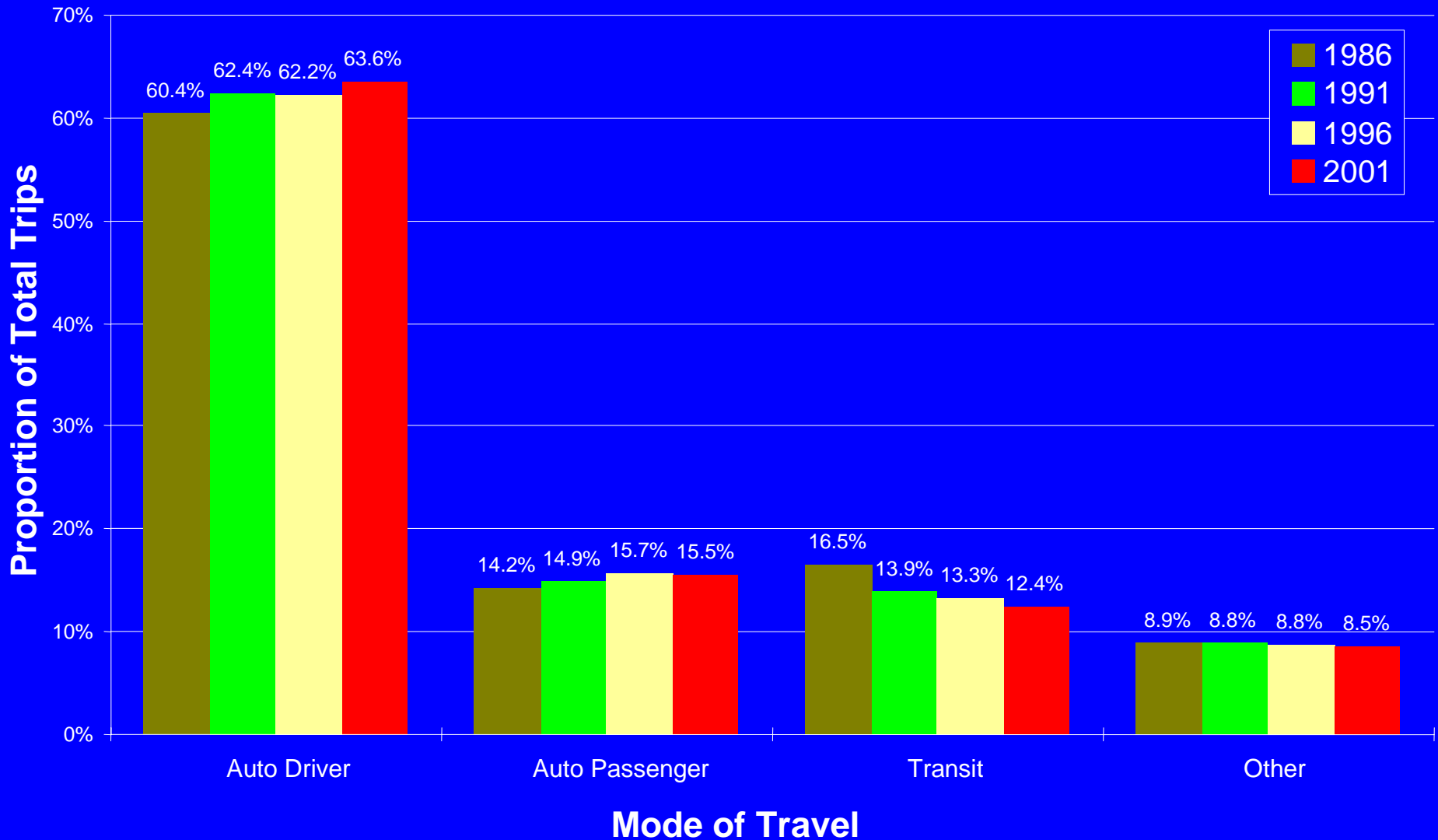
Males (16-21 yrs.) Without a Licence



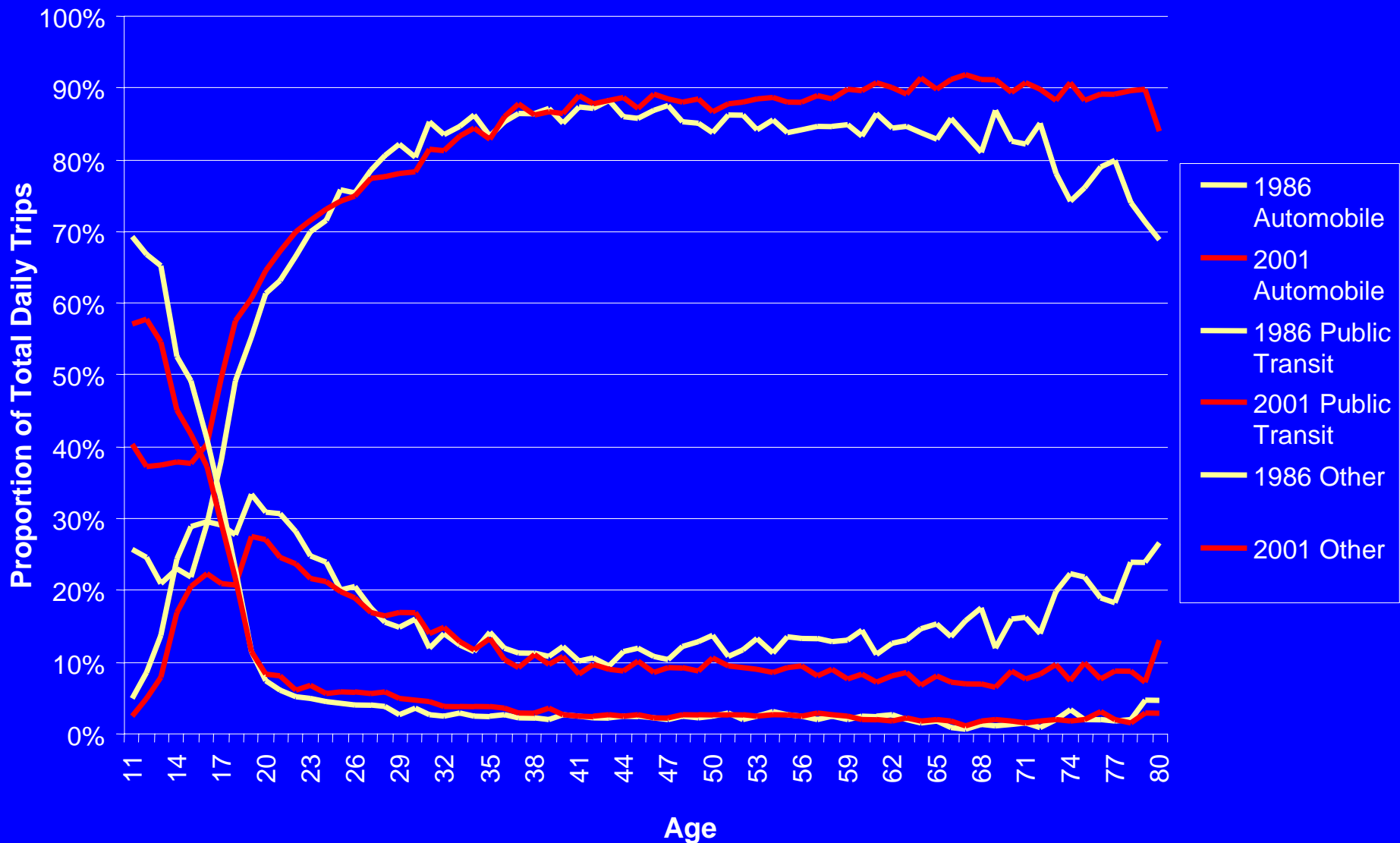
Females (16-21 yrs.) Without a Licence



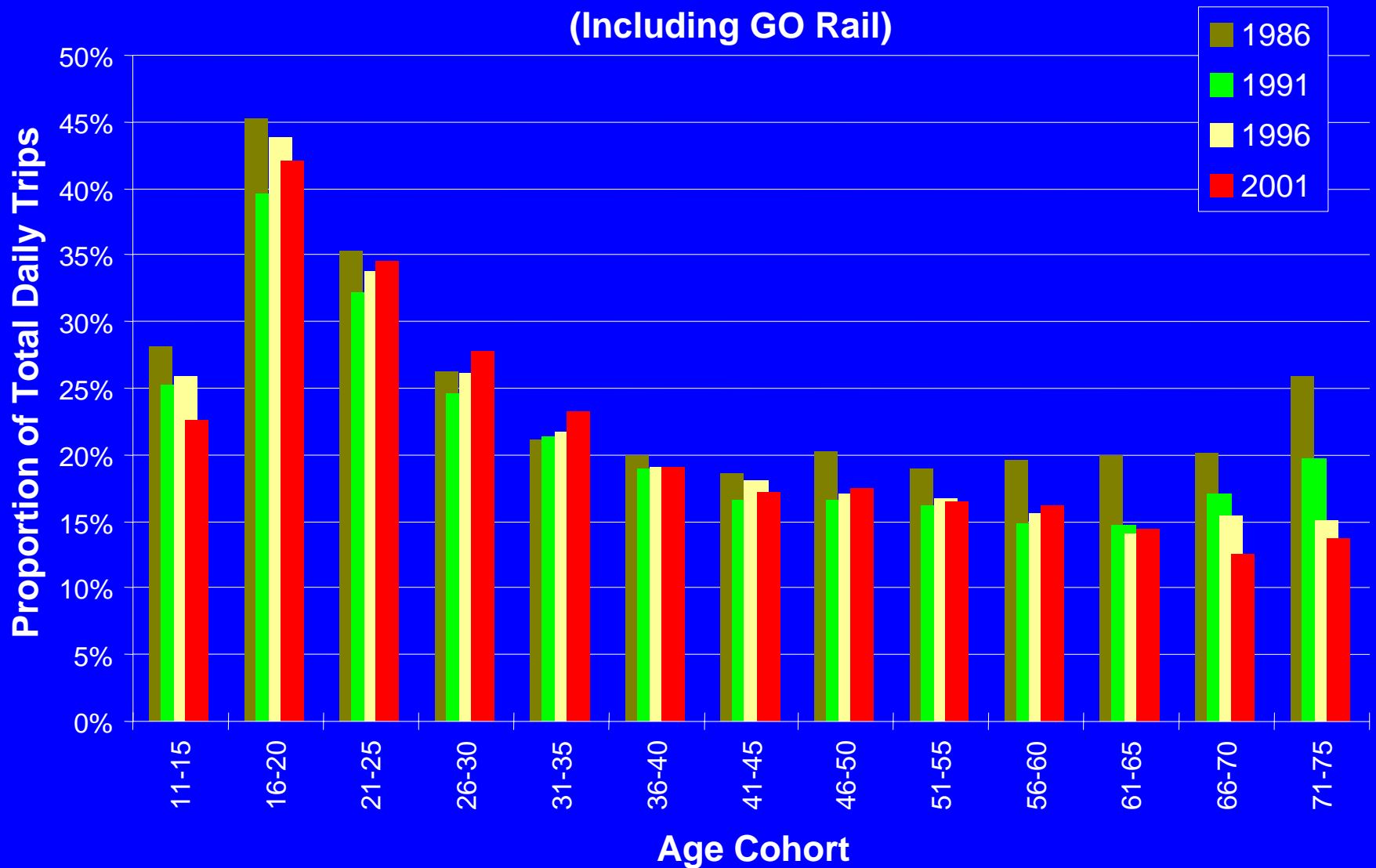
GTA Residents All Trips



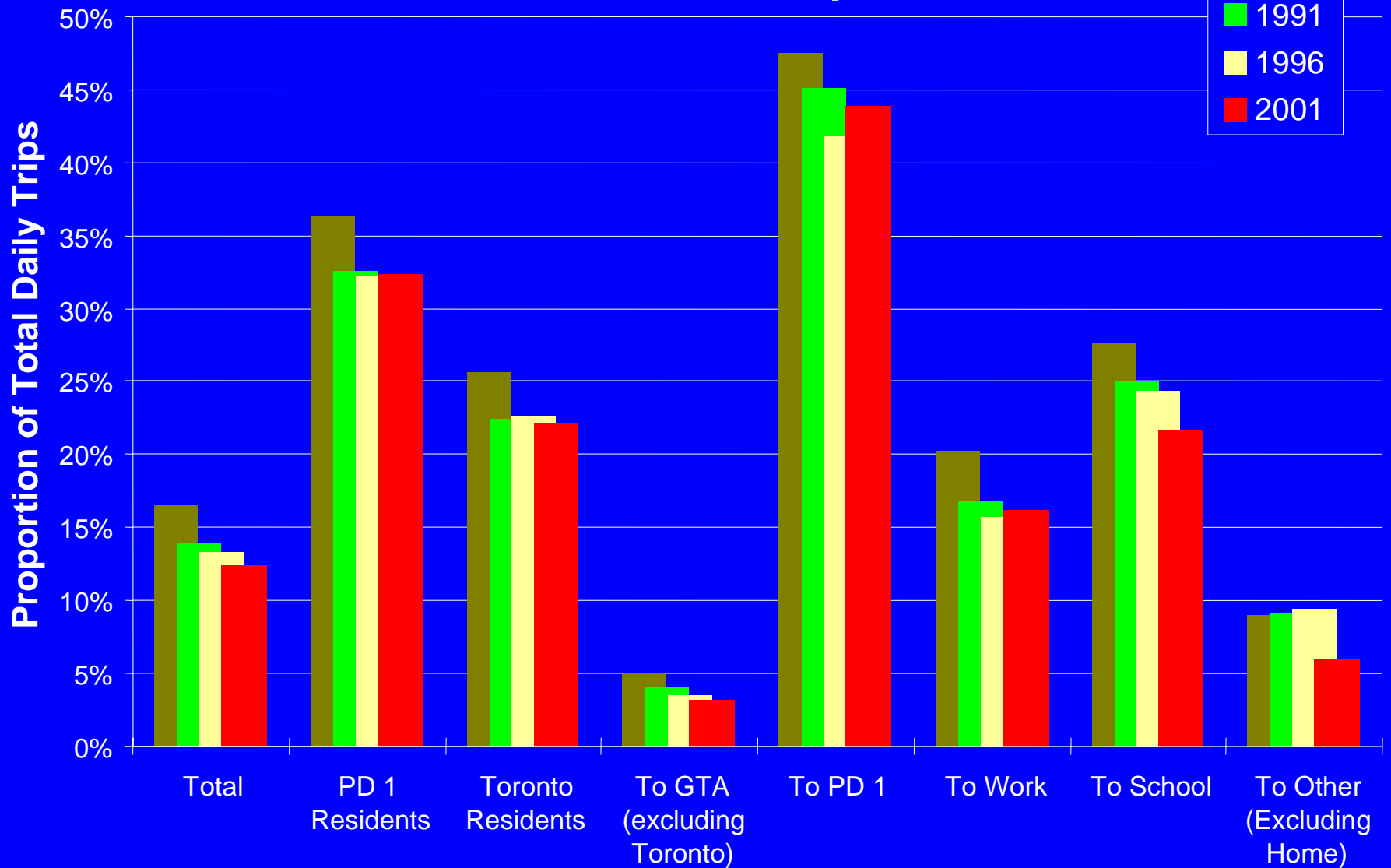
GTA MODE SPLIT



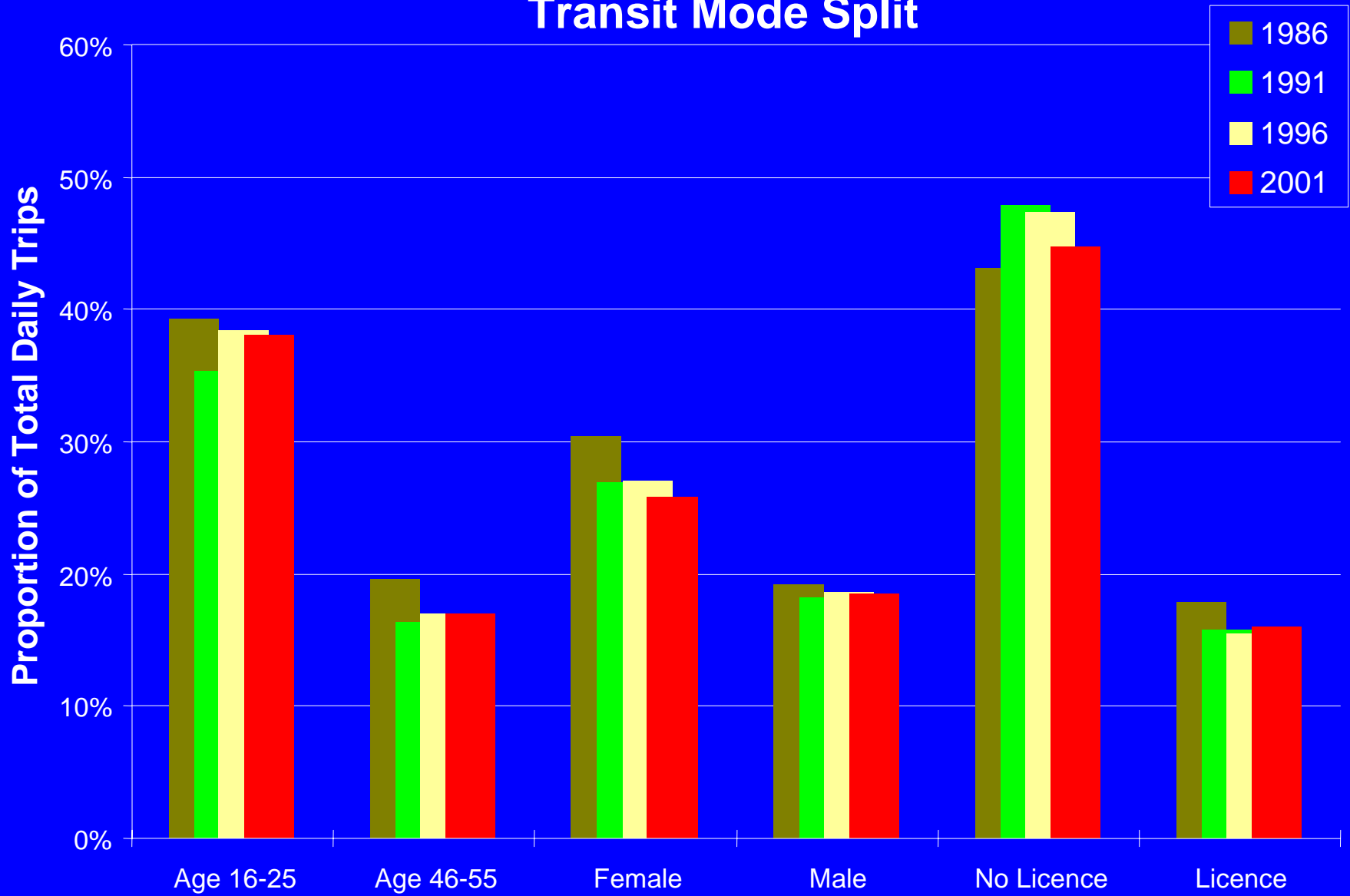
Toronto Residents Transit Mode Split (Including GO Rail)



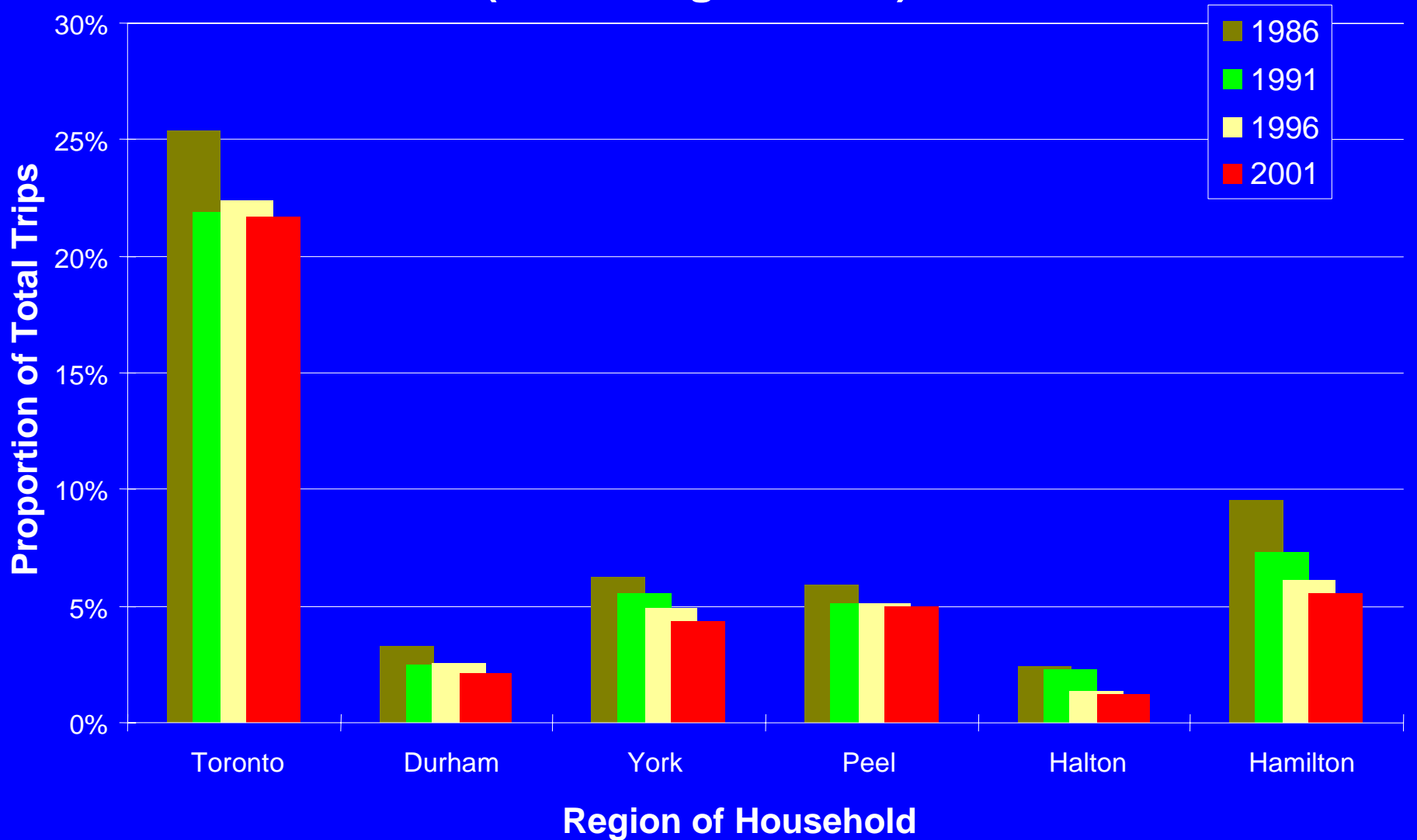
GTA Residents Transit Mode Split



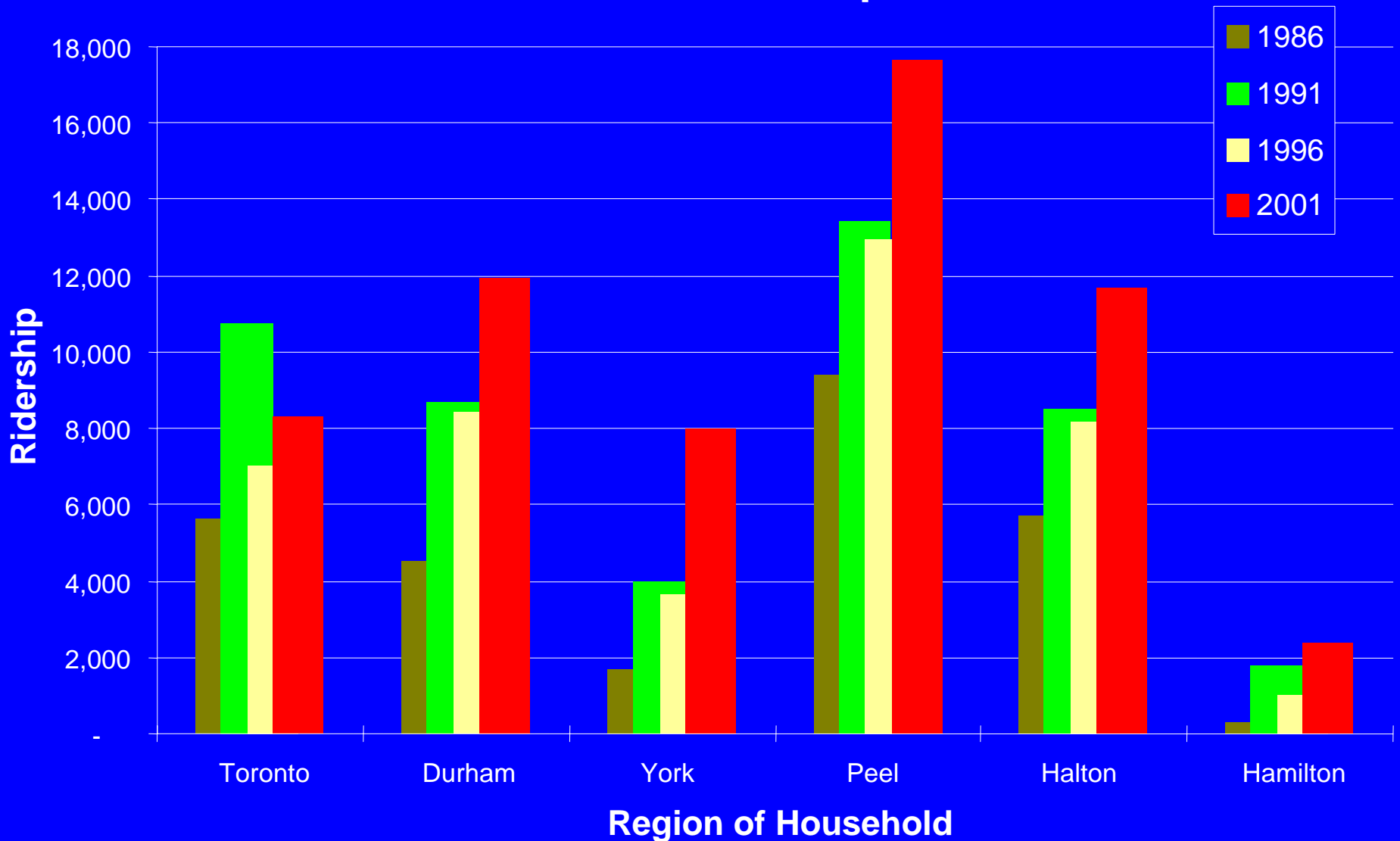
Toronto Residents Transit Mode Split



Transit Mode Split (Excluding GO Rail)



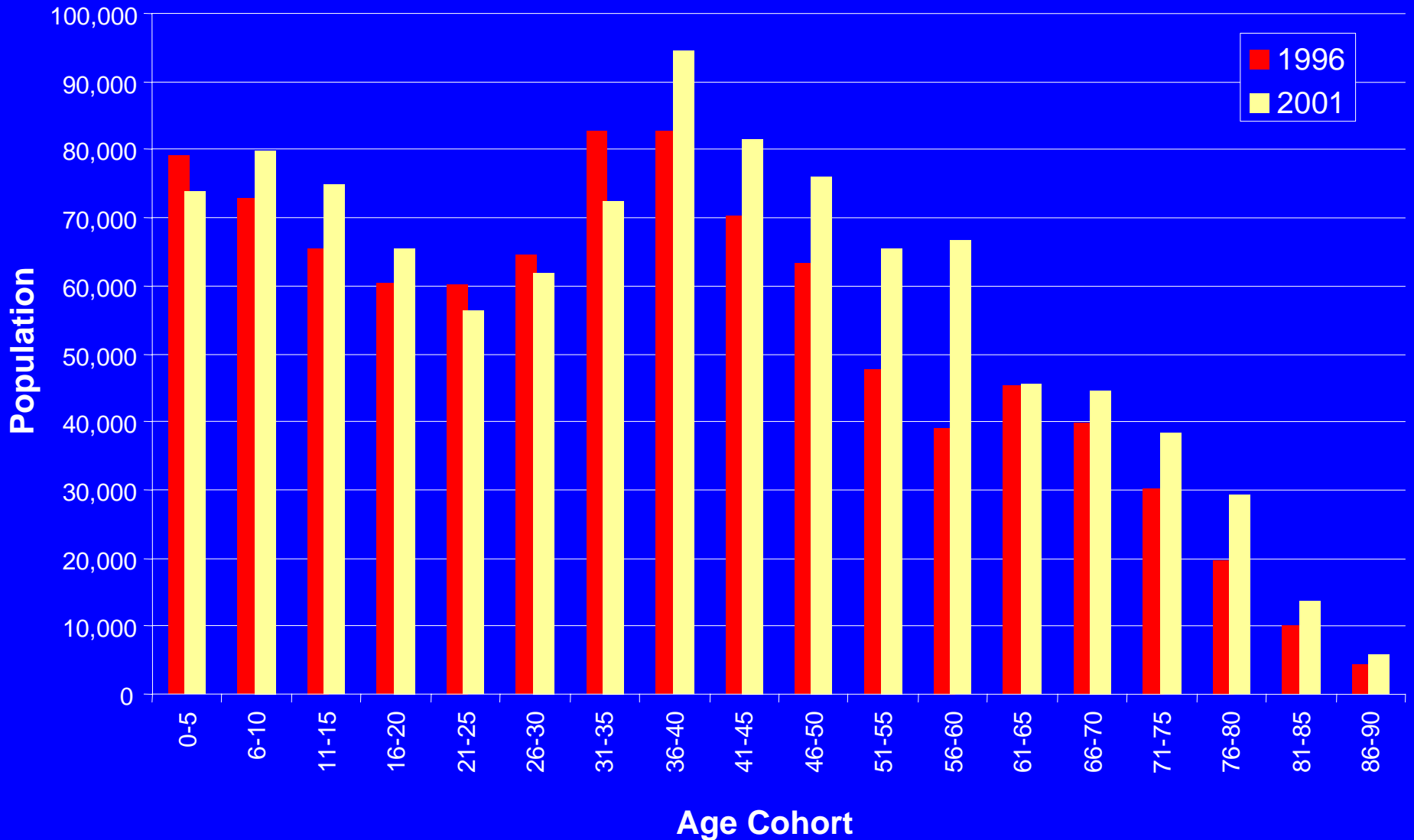
First Trip to Work GO Rail Ridership



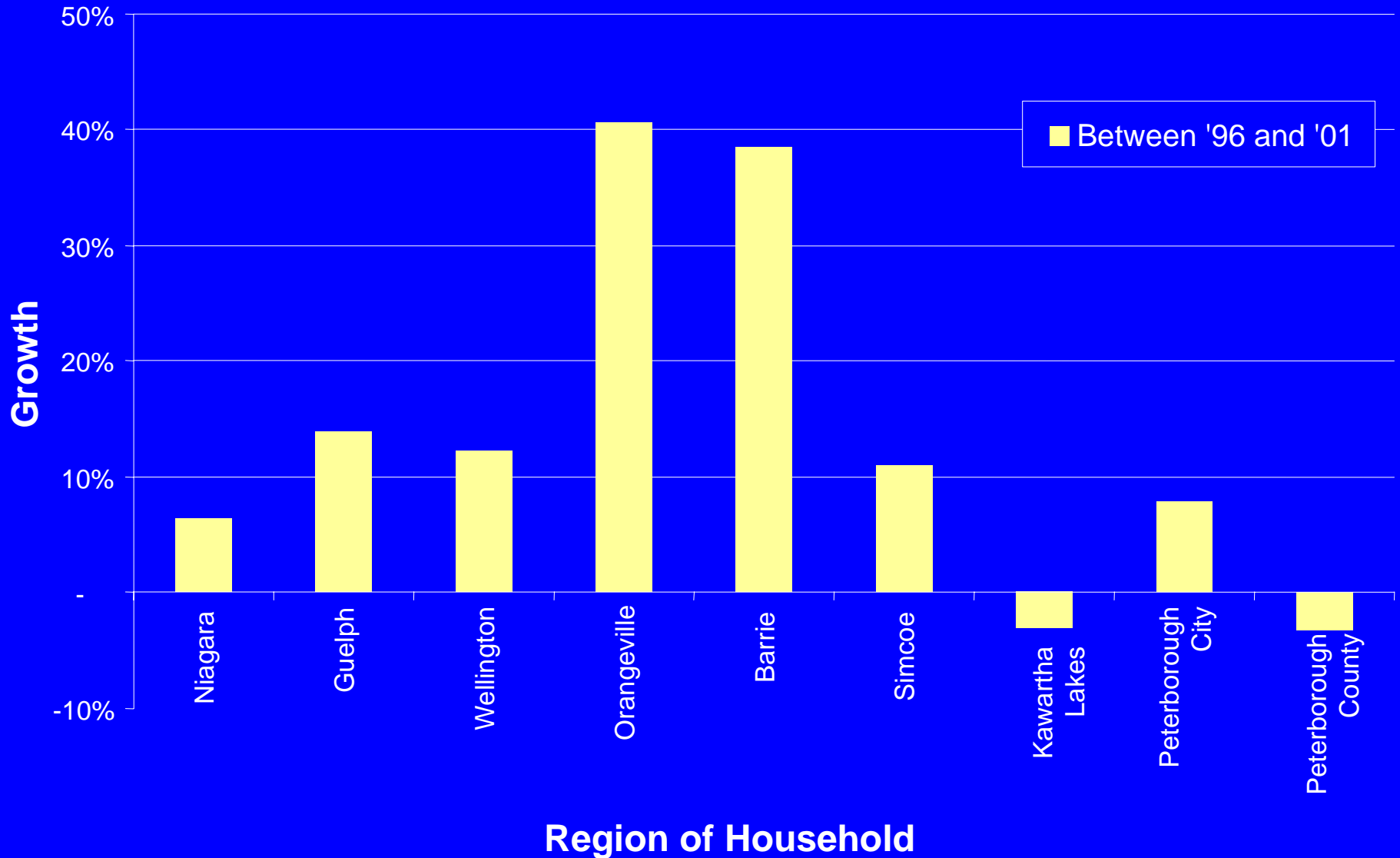
Time Series Analysis non-GTA

1996 and 2001

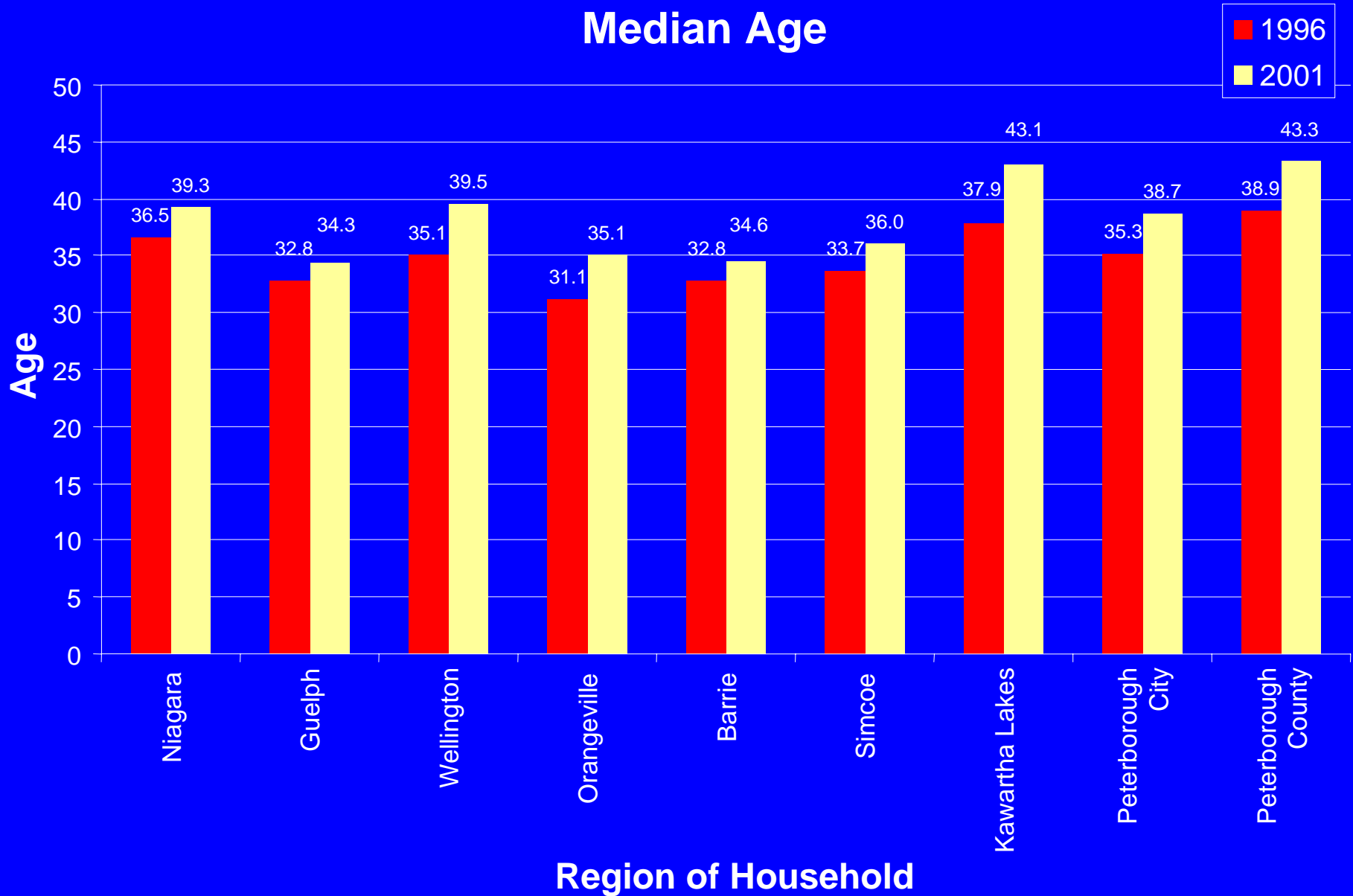
Non-GTA Residents Age Distribution



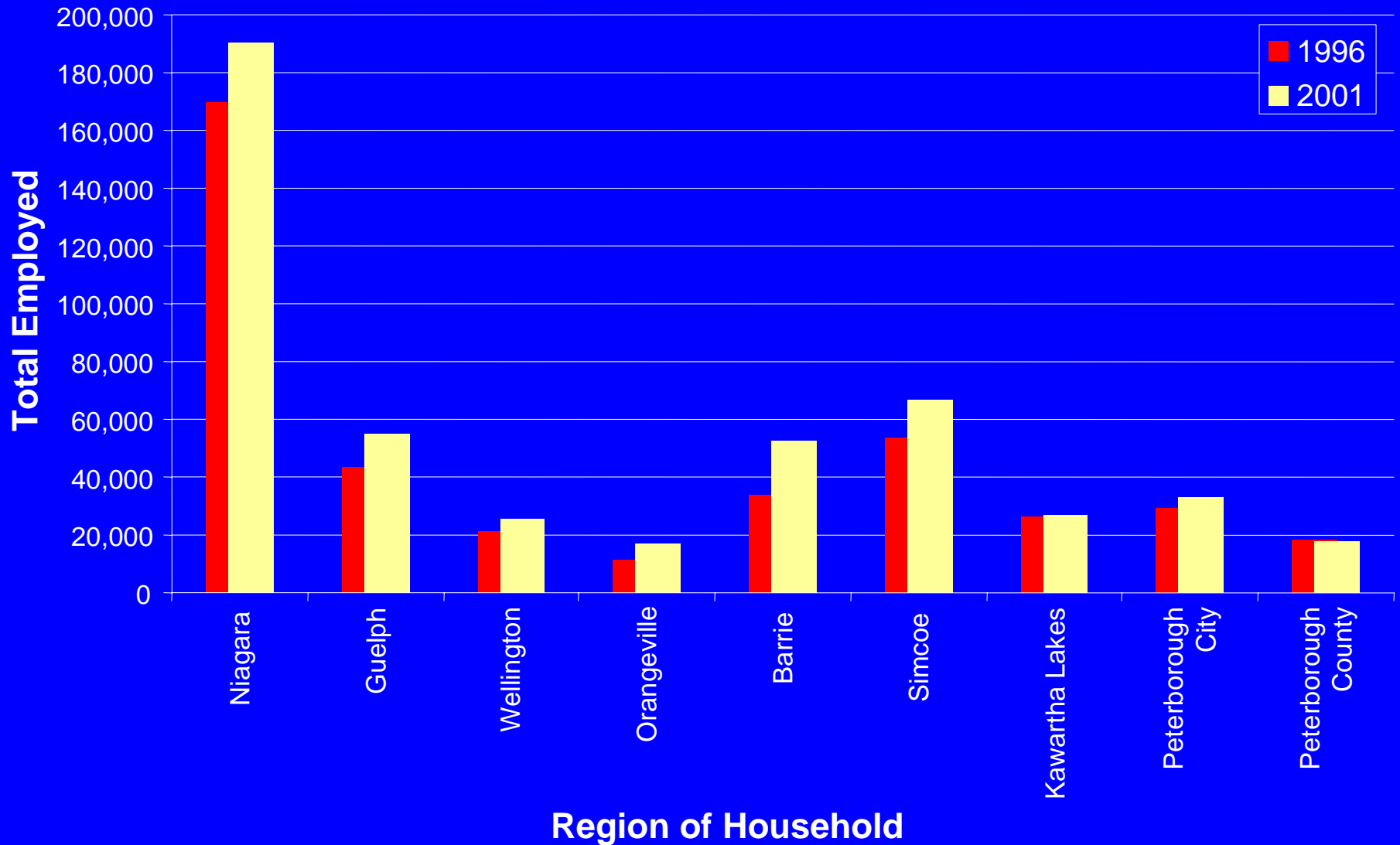
Non-GTA Population Growth



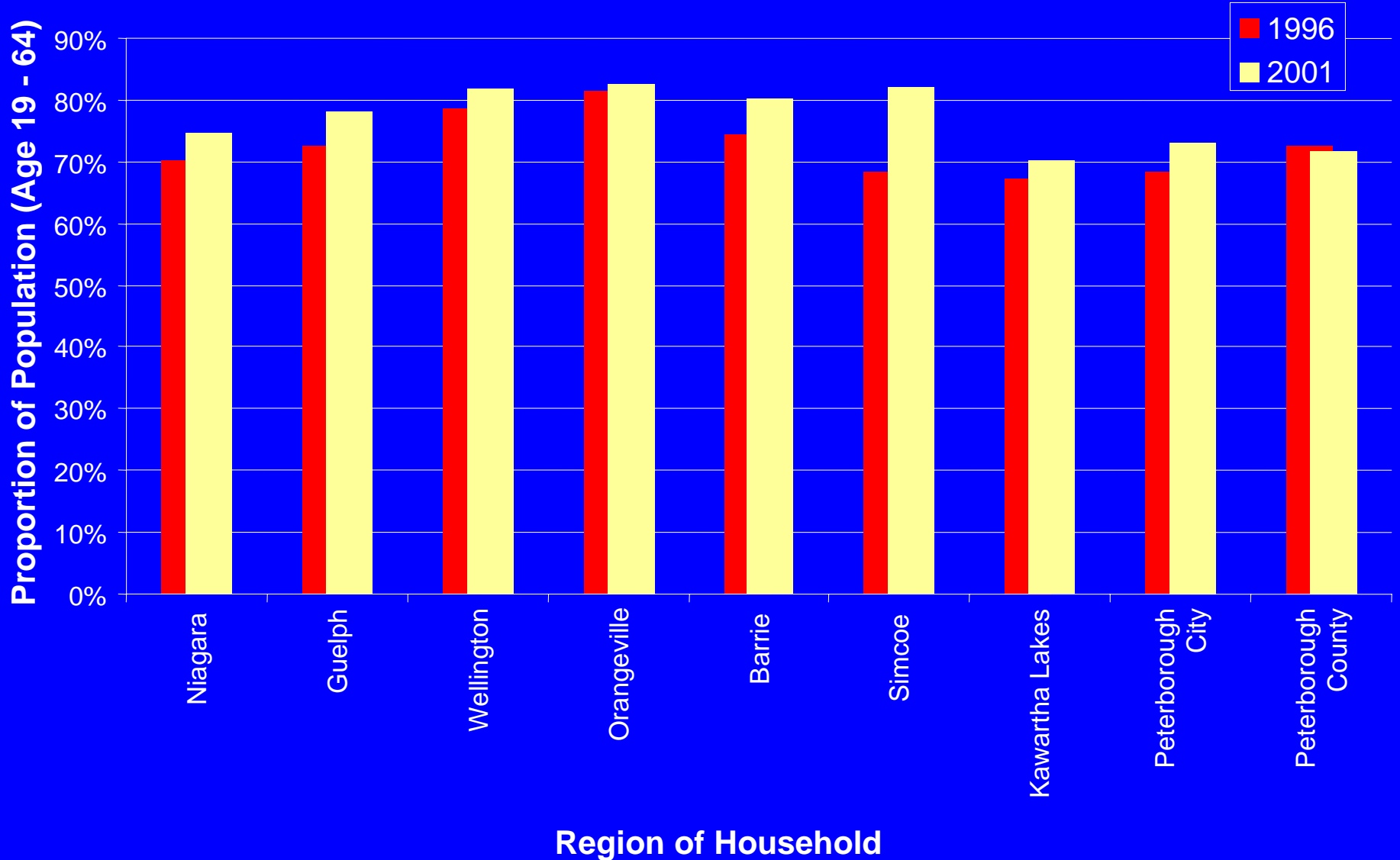
Non-GTA Residents Median Age



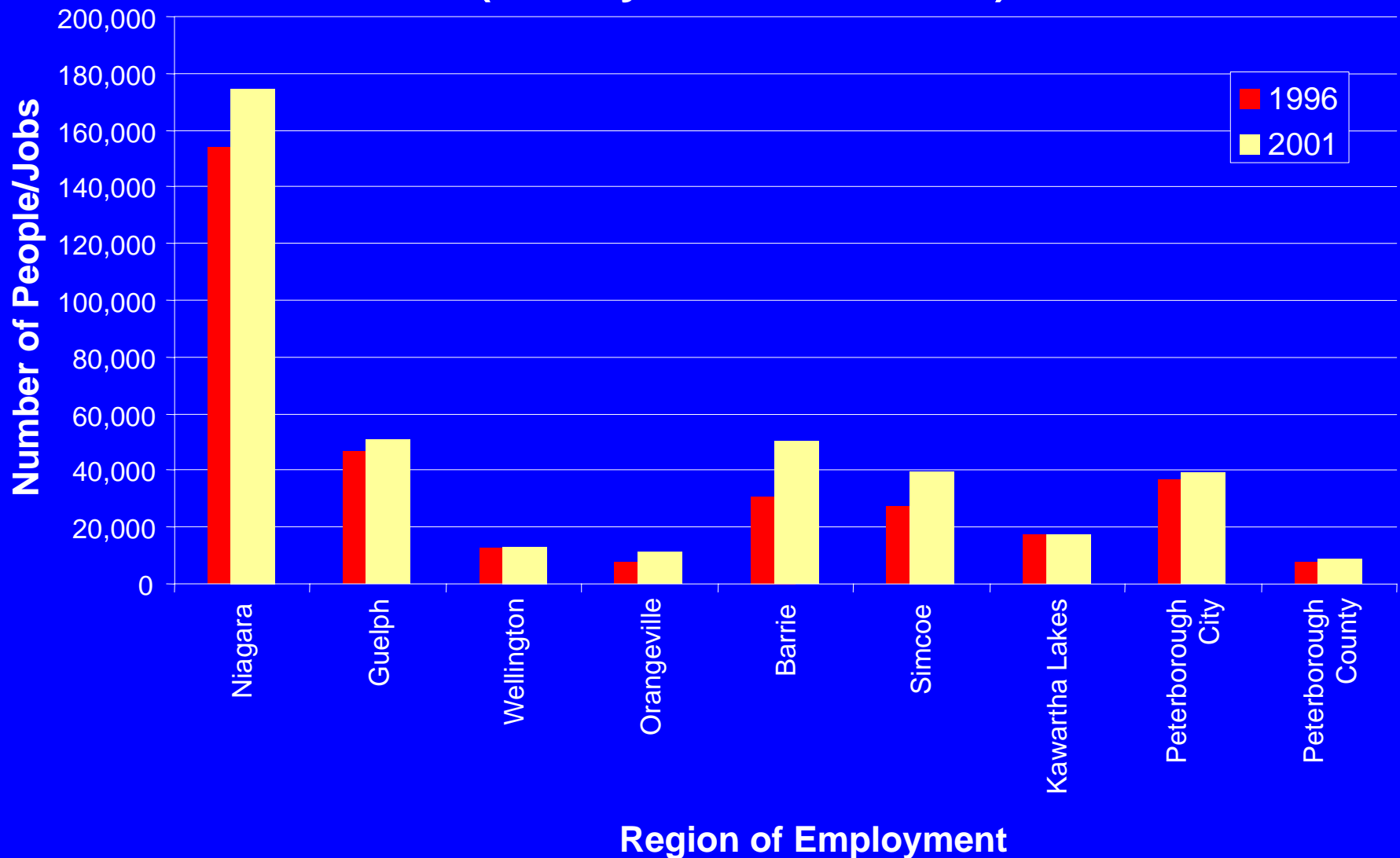
Employed Labour Force



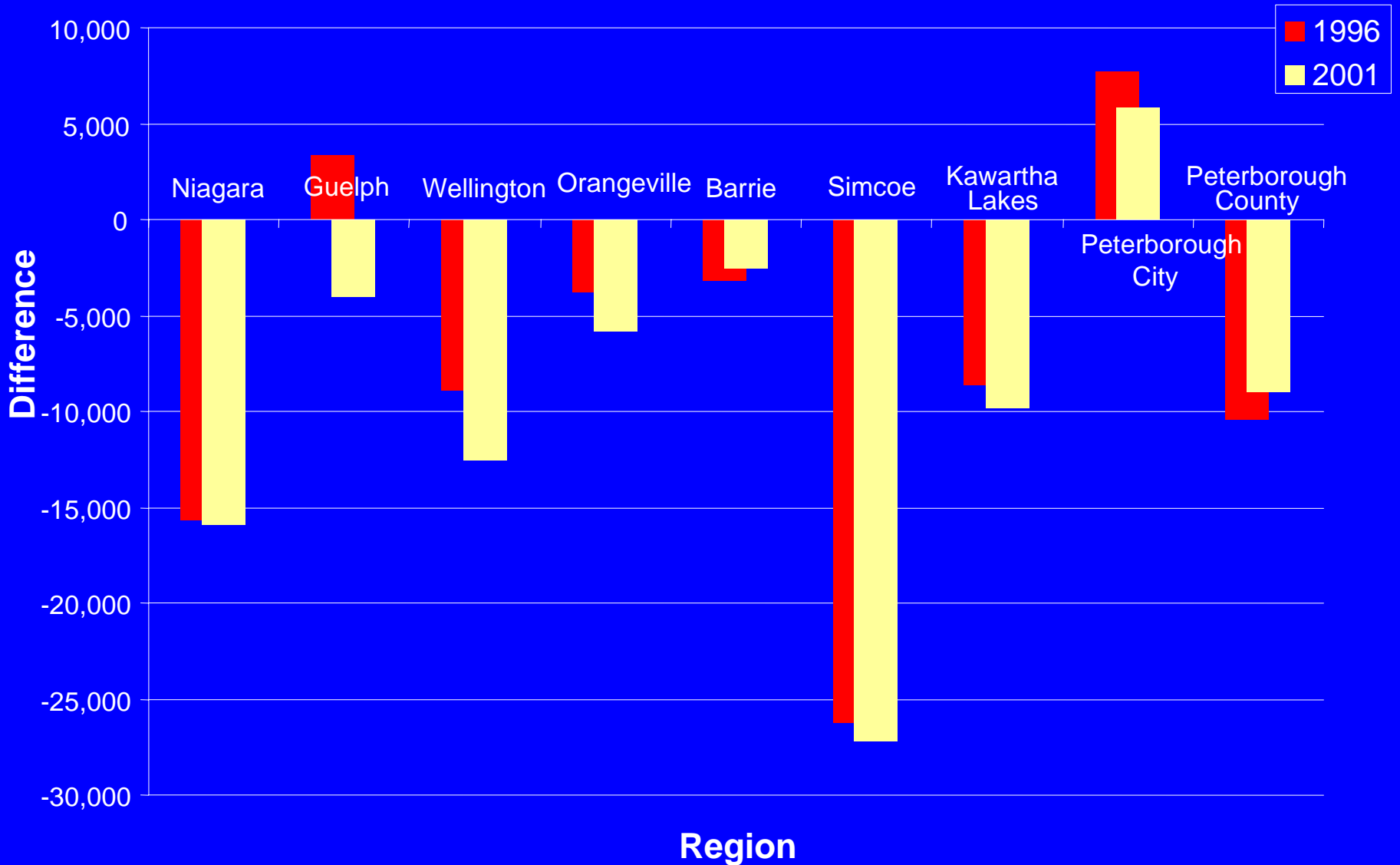
Employed Labour Force Participation Rate



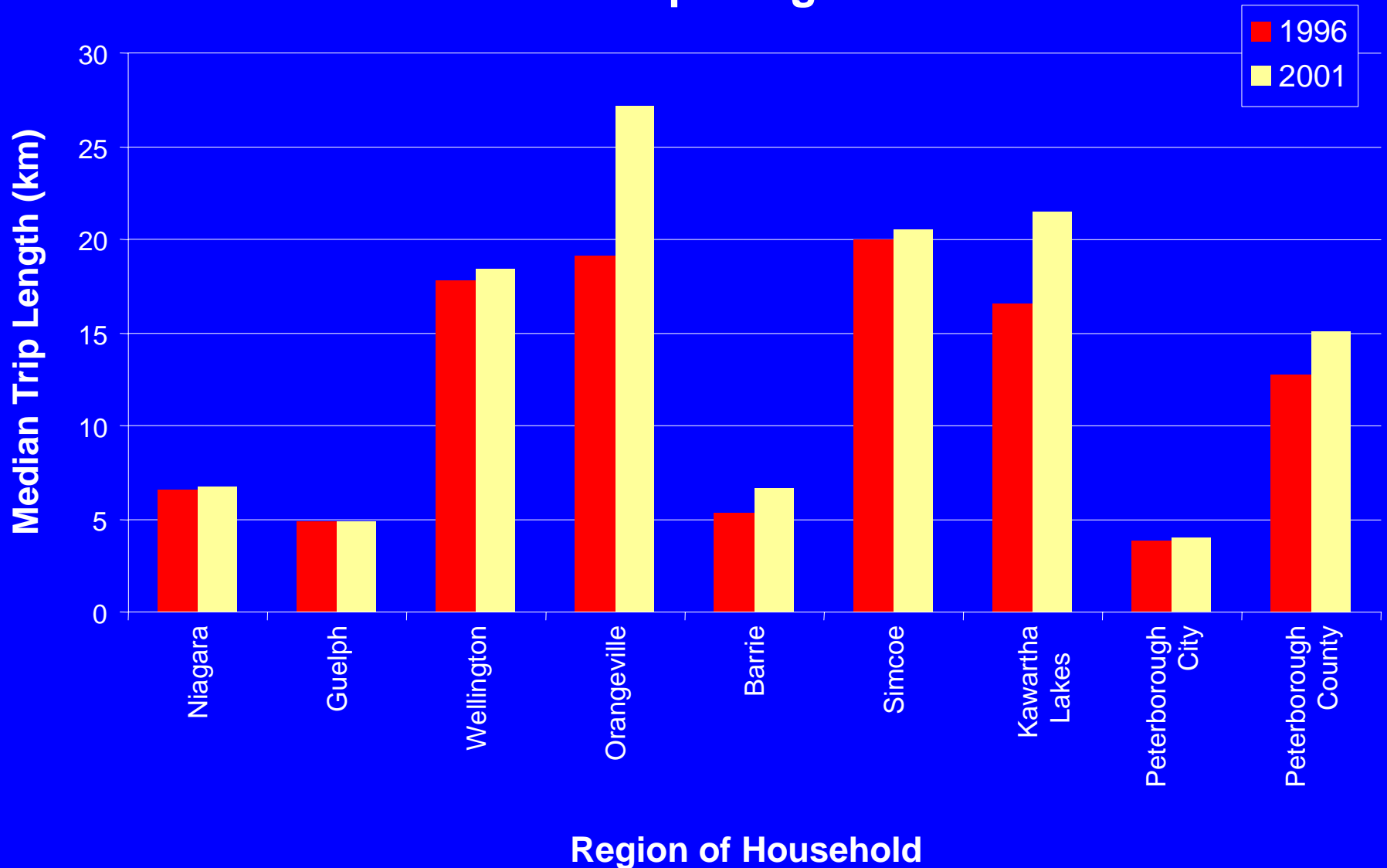
Non-GTA Employment (Survey Area Residents)



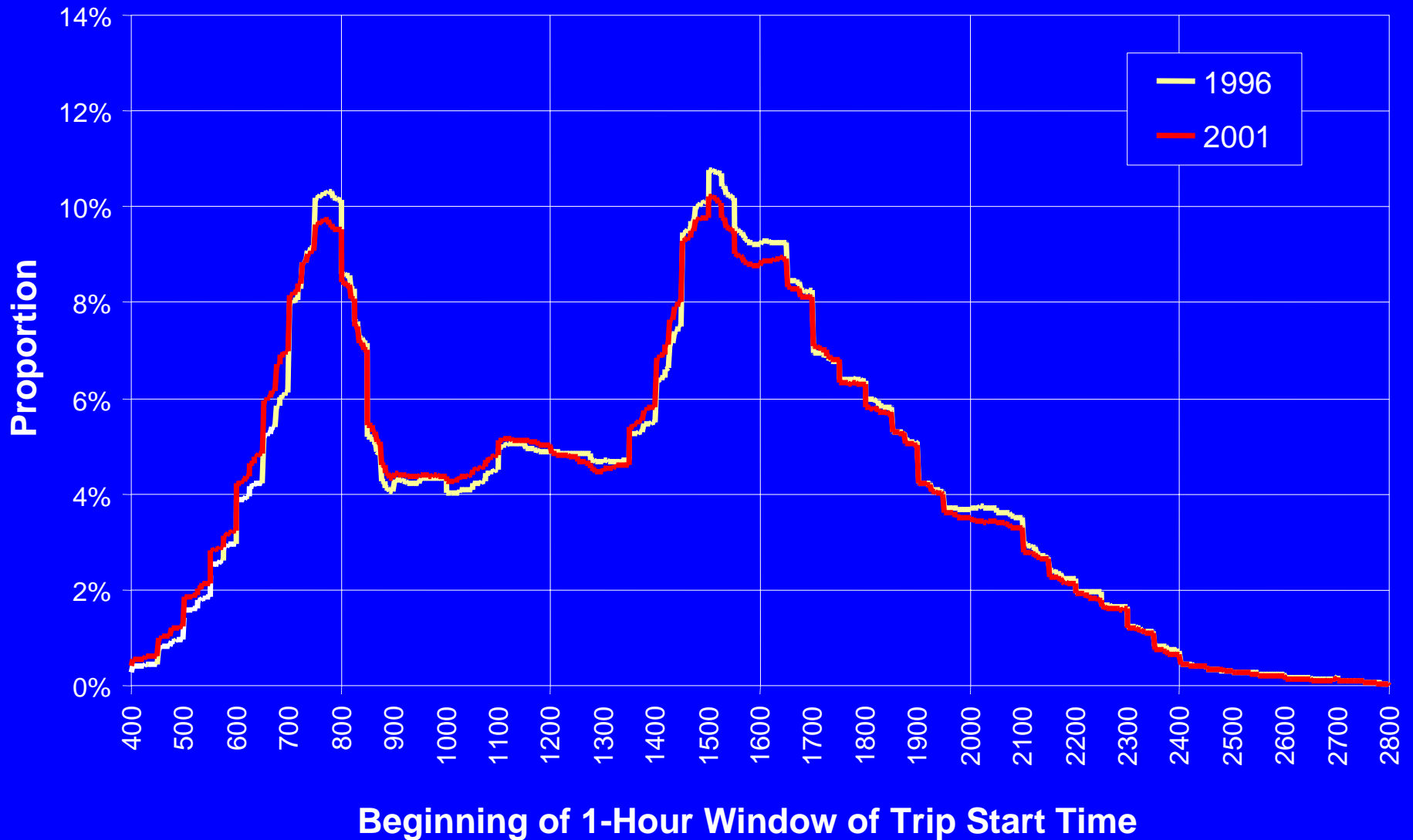
Employment Minus Employed Labour Force



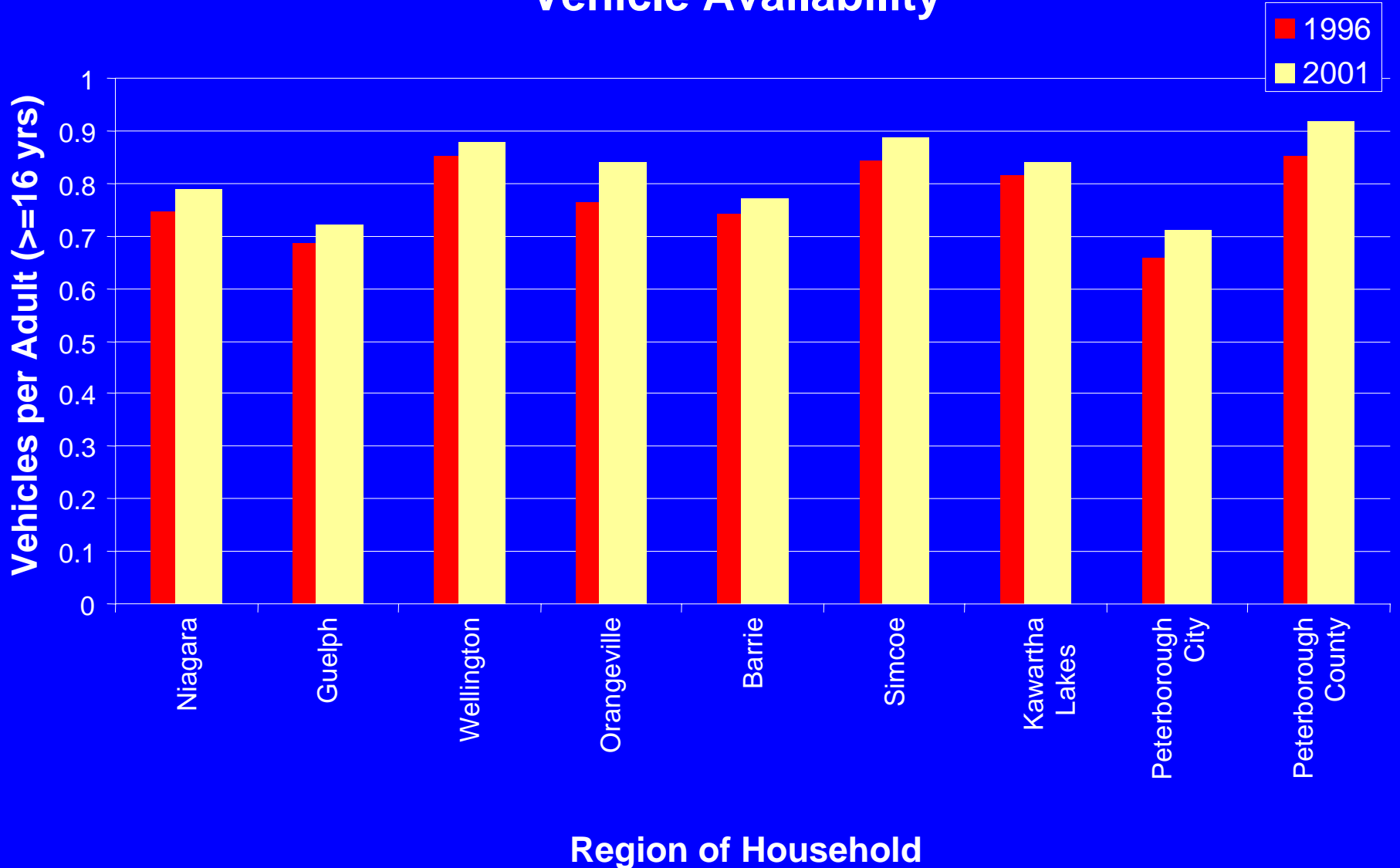
First Trip to Work Trip Length



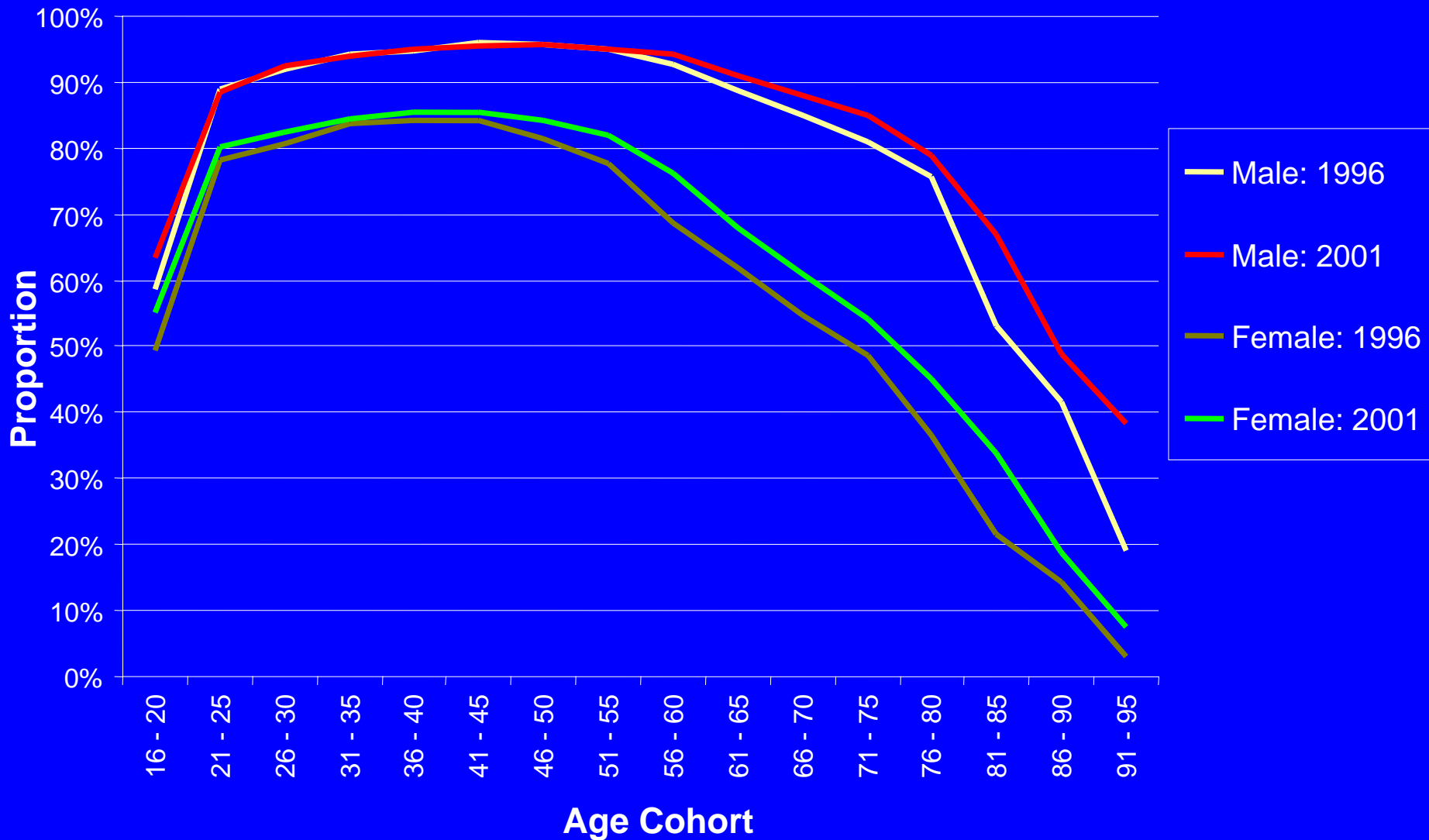
Non-GTA Residents Trip Start Time



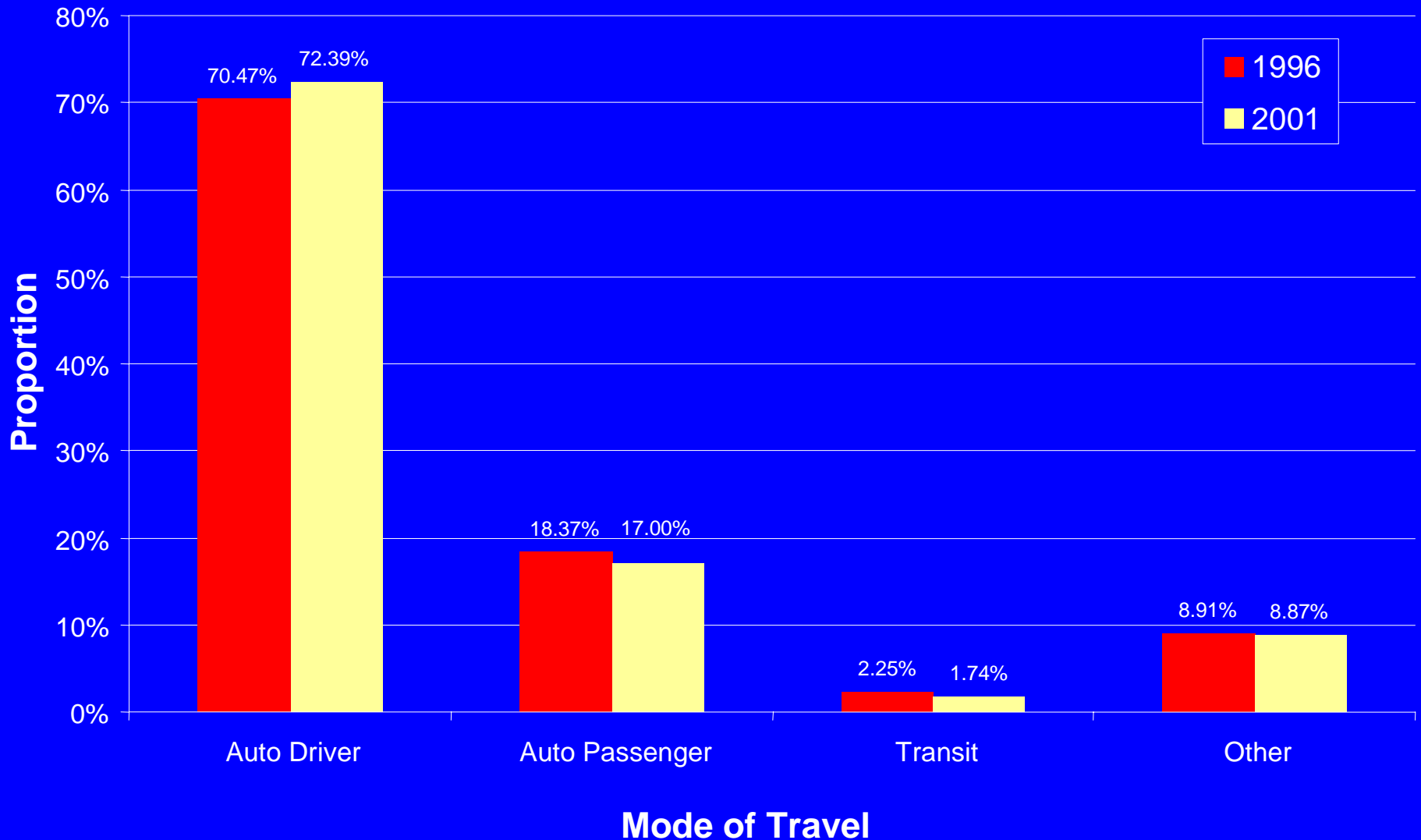
Non-GTA Residents Vehicle Availability



Proportion of Adults (≥ 16 yrs) With a Driver's Licence

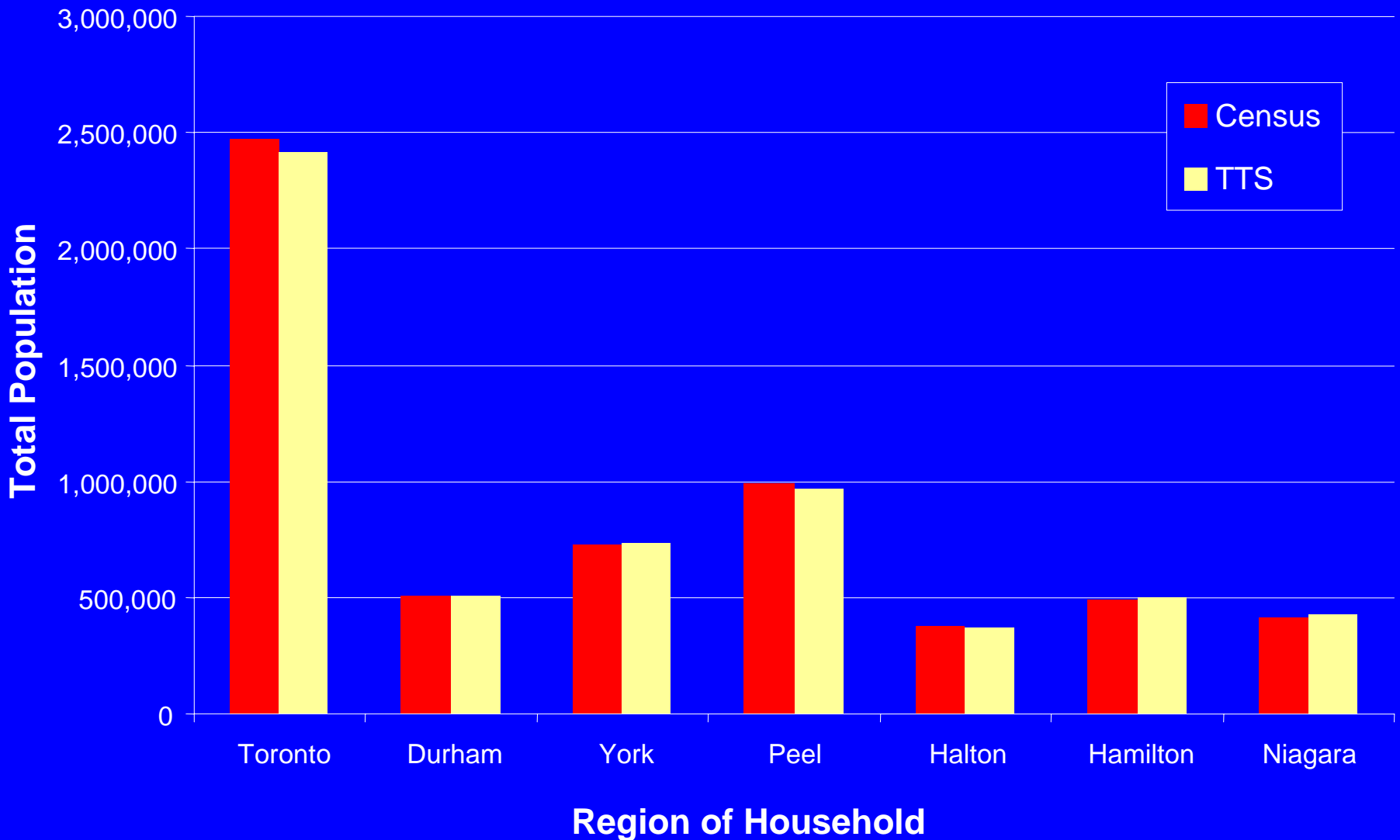


Non-GTA Residents All Trips

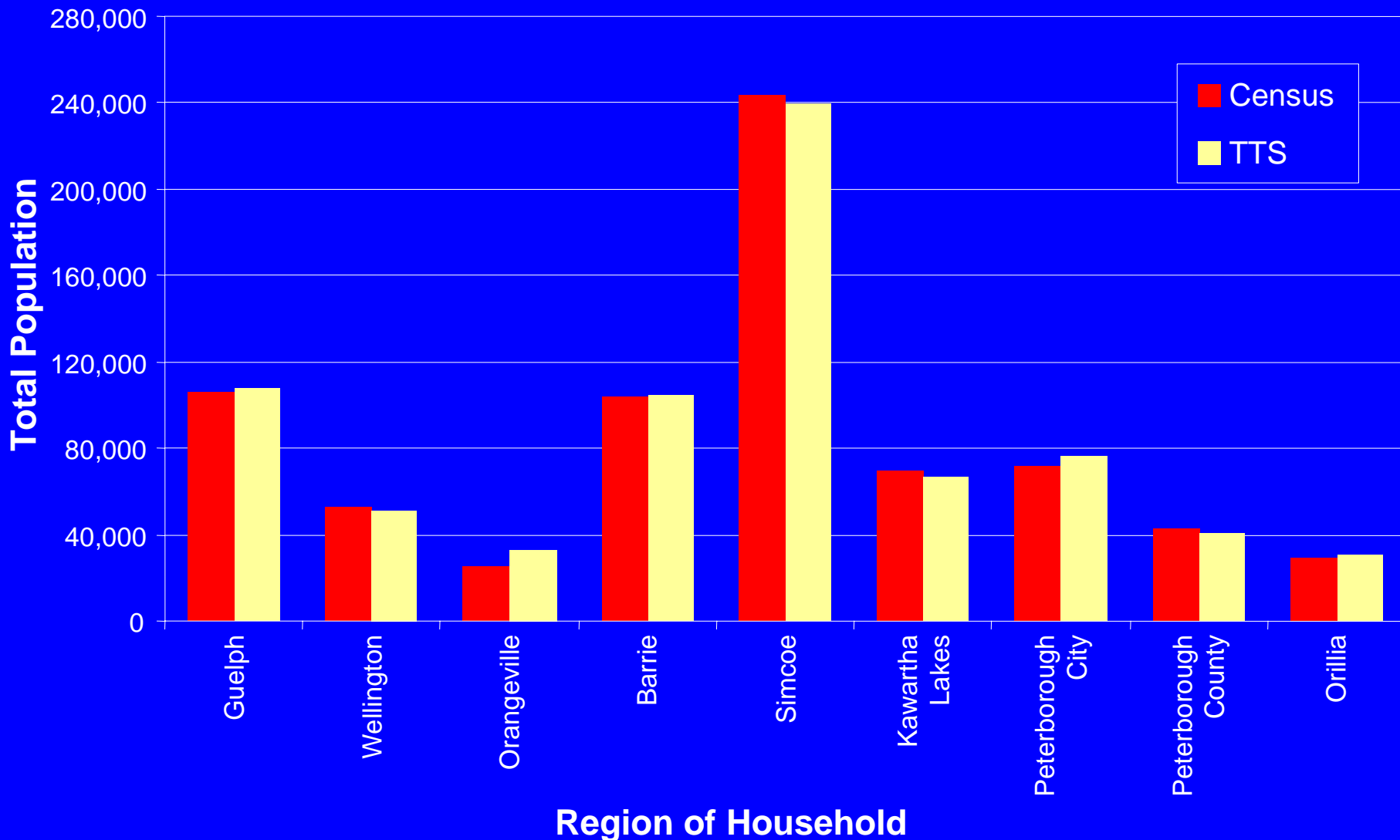


Data Validation

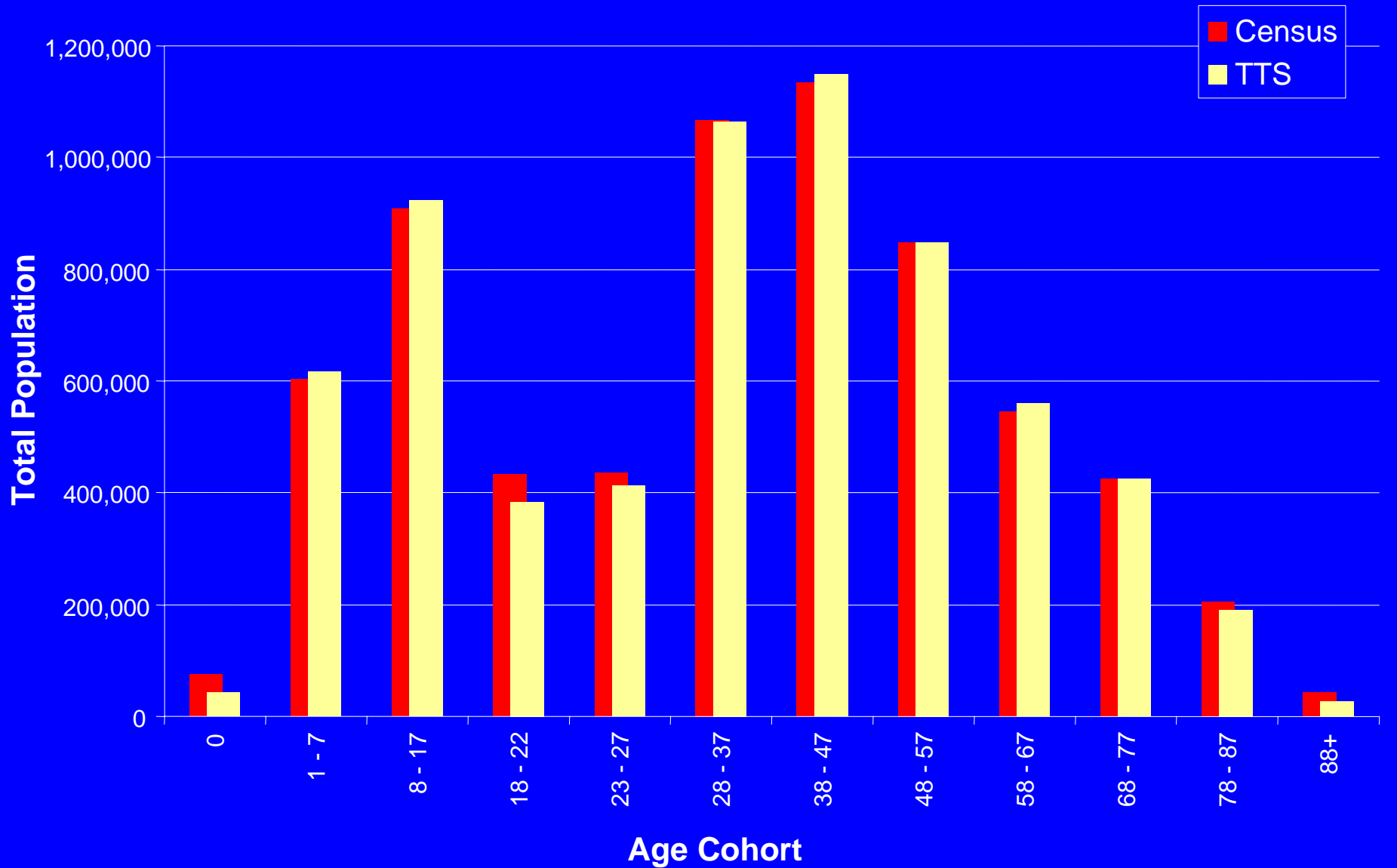
2001 Population



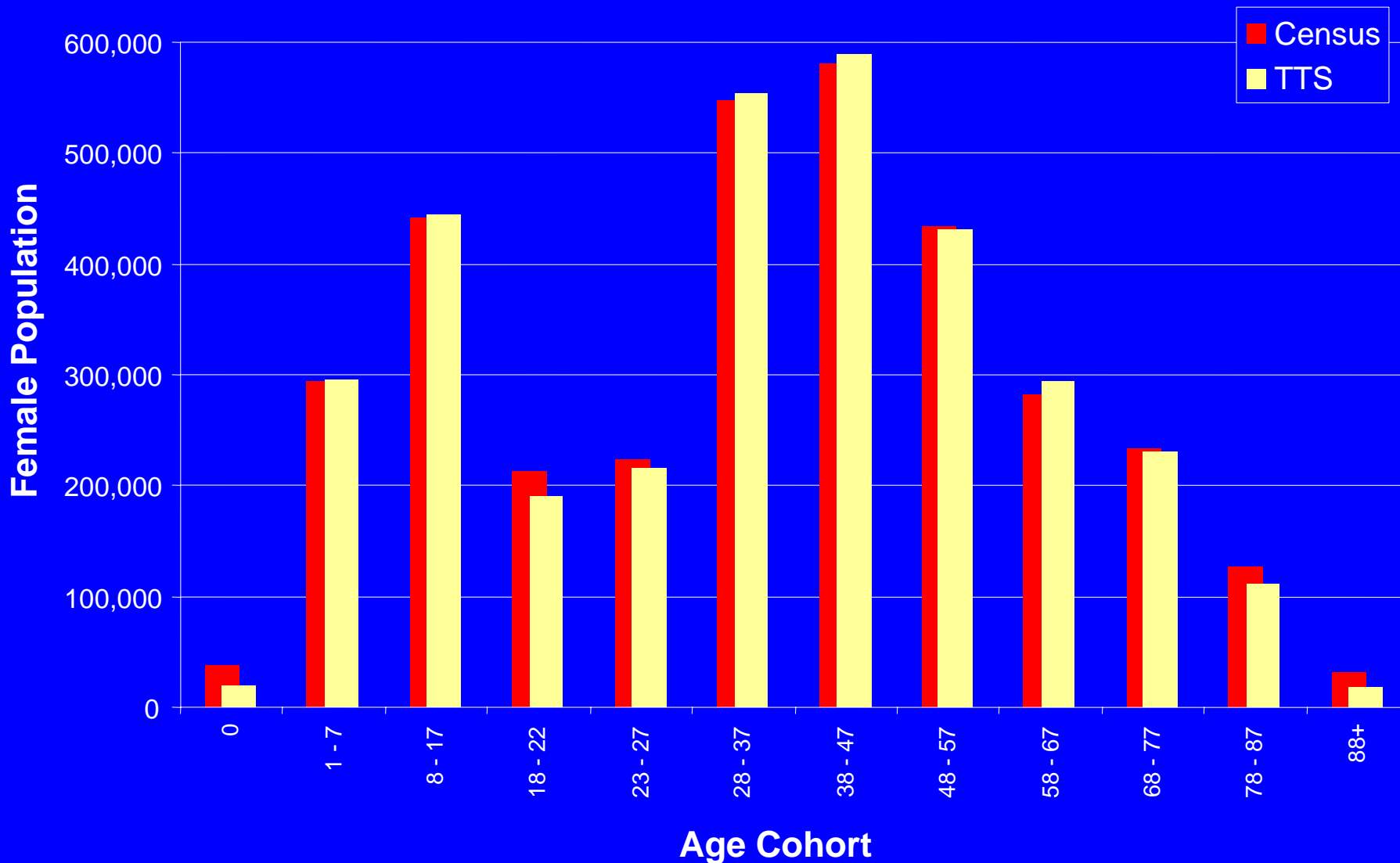
2001 Population



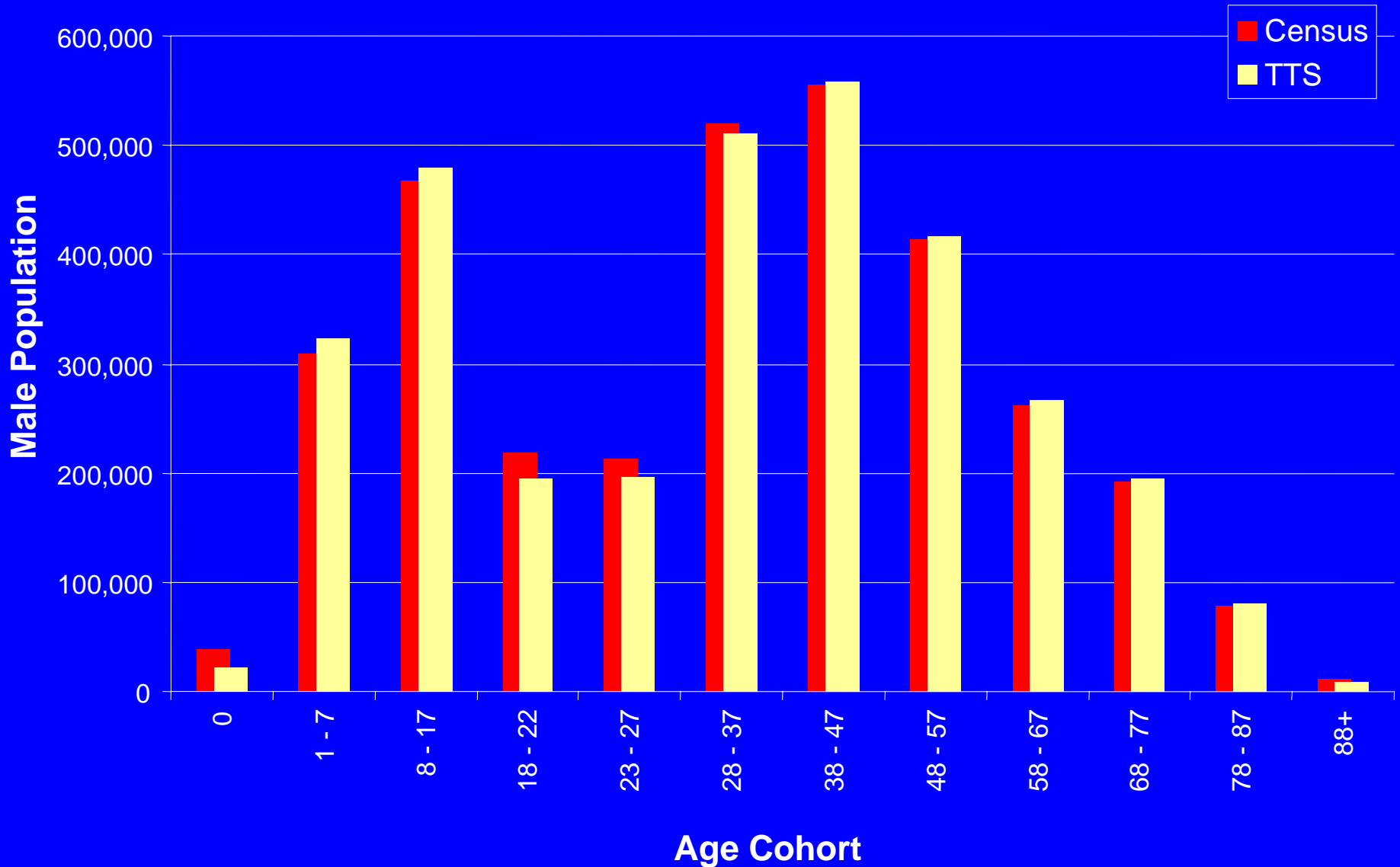
Age Distribution



Age Distribution



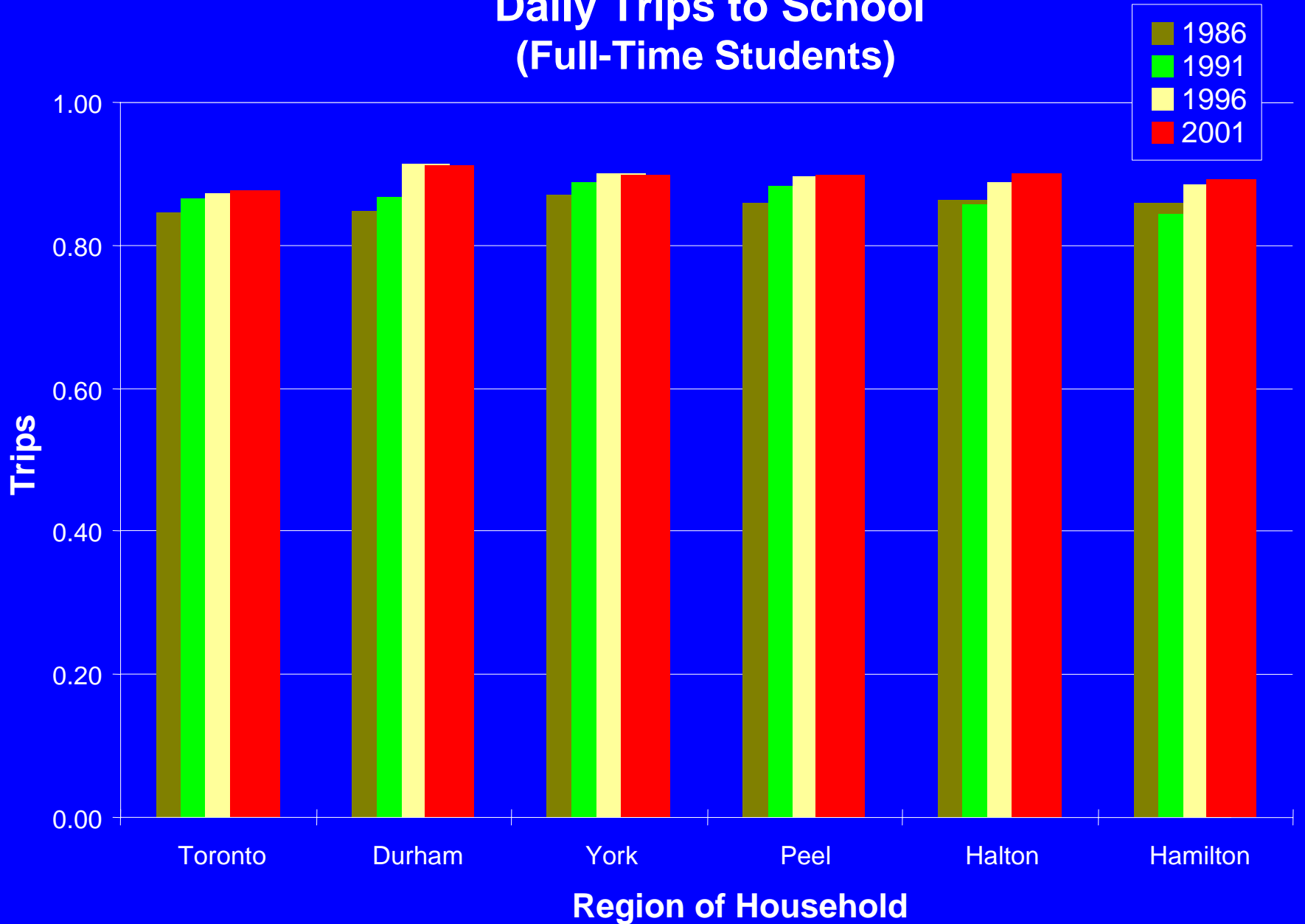
Age Distribution



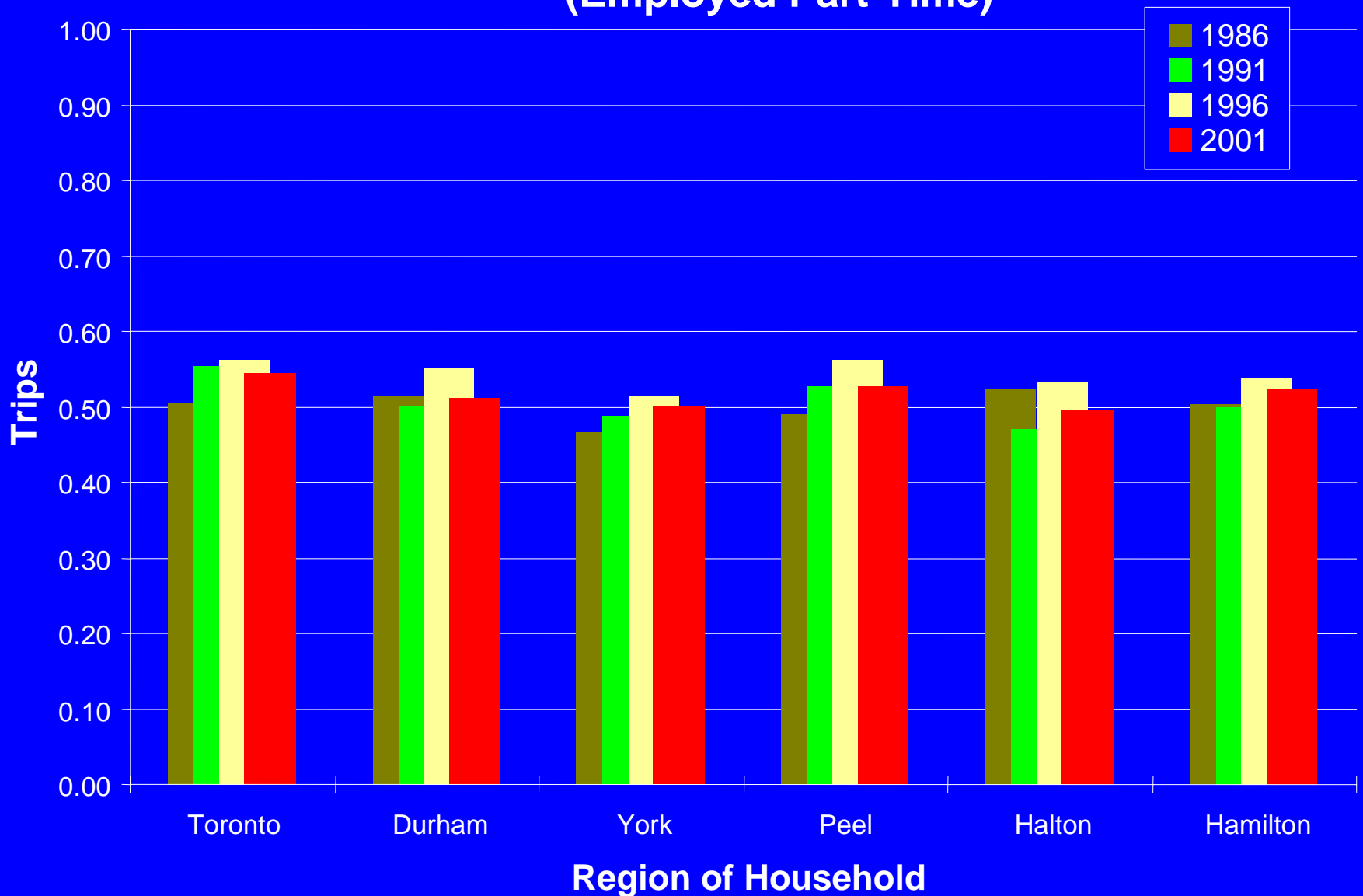
Daily Trips To Work per Person (Employed Full-Time)



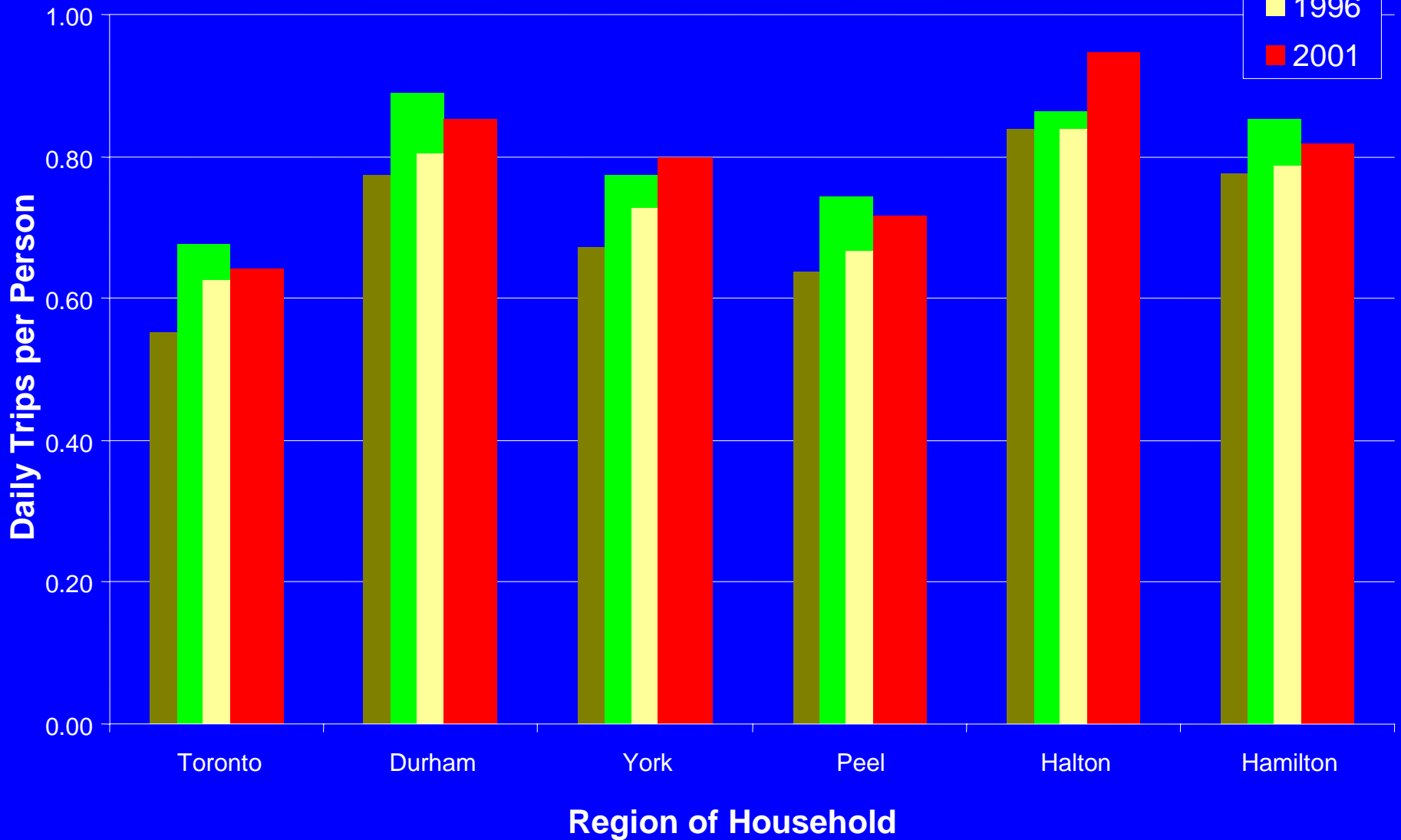
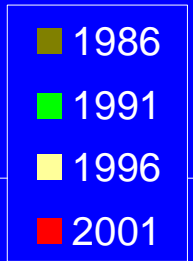
Daily Trips to School (Full-Time Students)



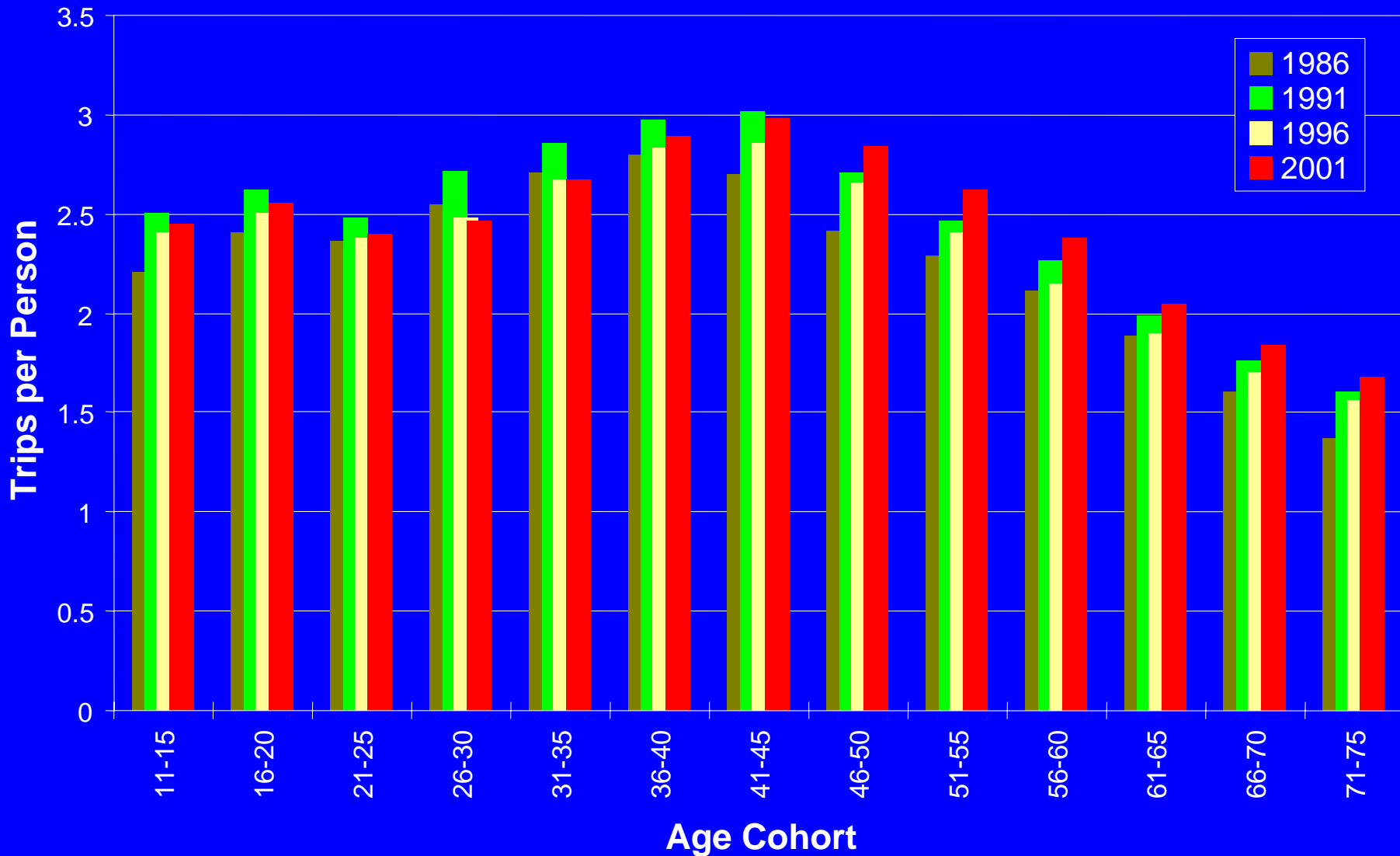
Daily Trips to Work per Person (Employed Part-Time)



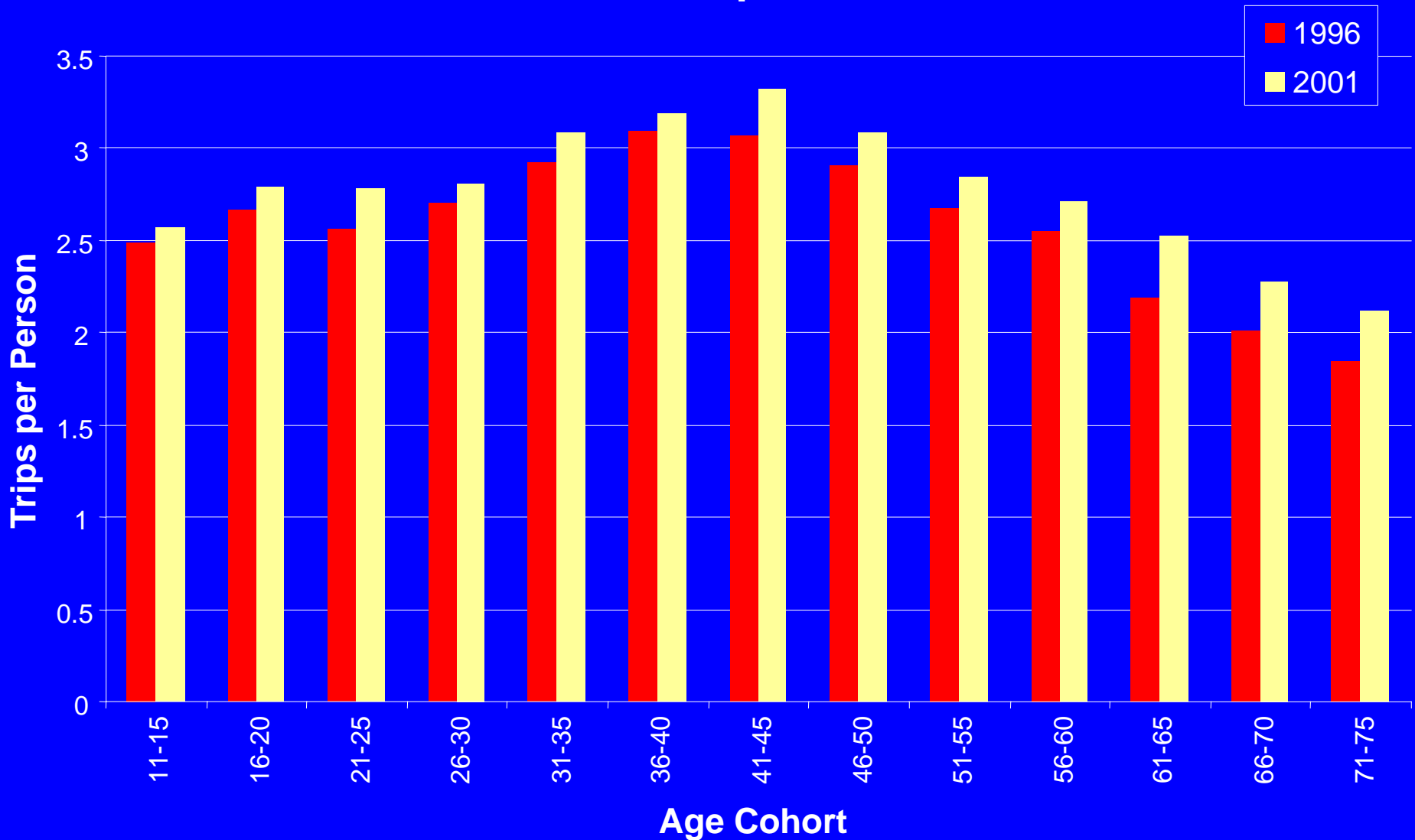
Discretionary Travel



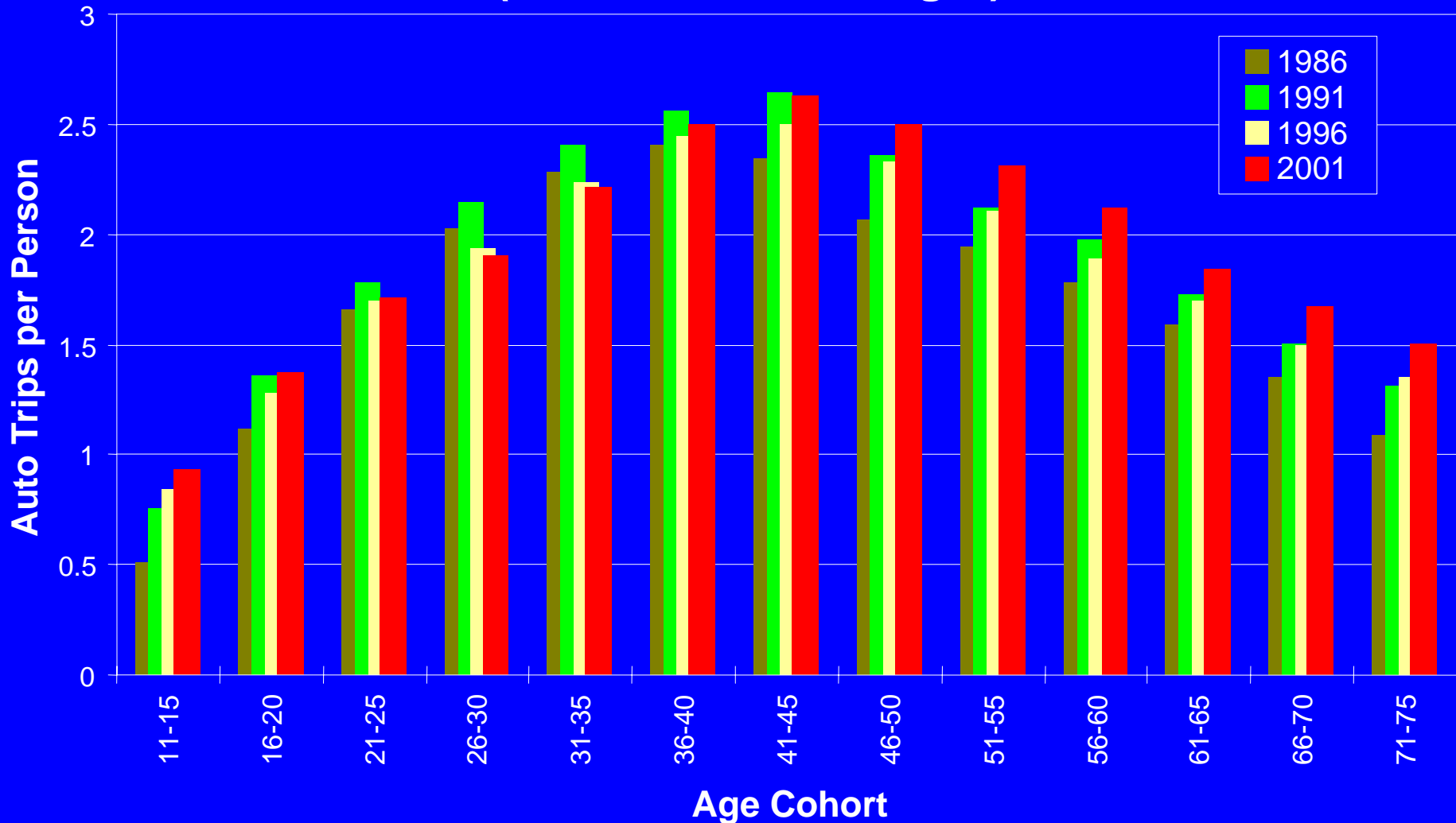
GTA Residents Total Trip Rate



Non-GTA Residents Total Trip Rate

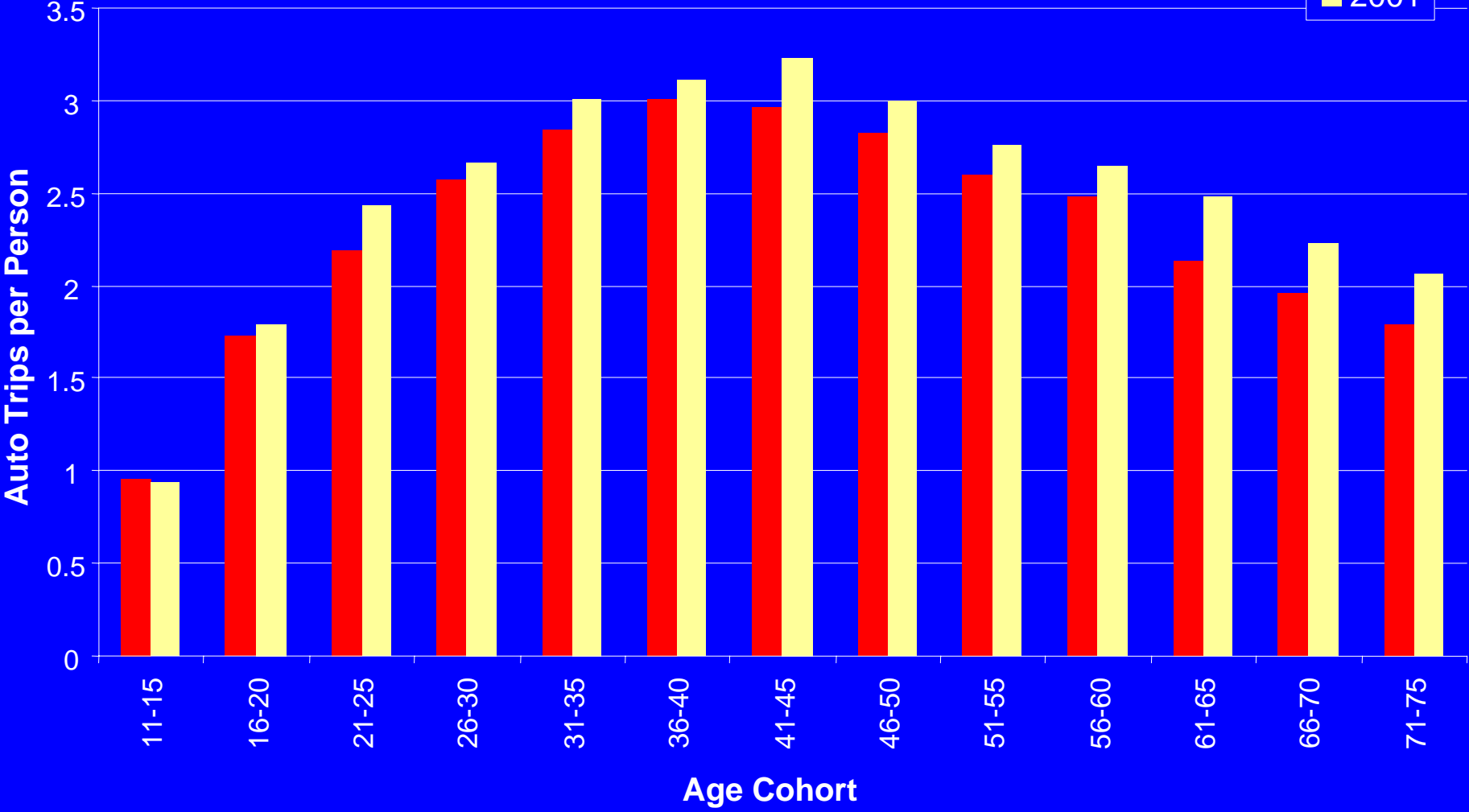


GTA Residents Daily Auto Trip Rate (Driver and Passenger)

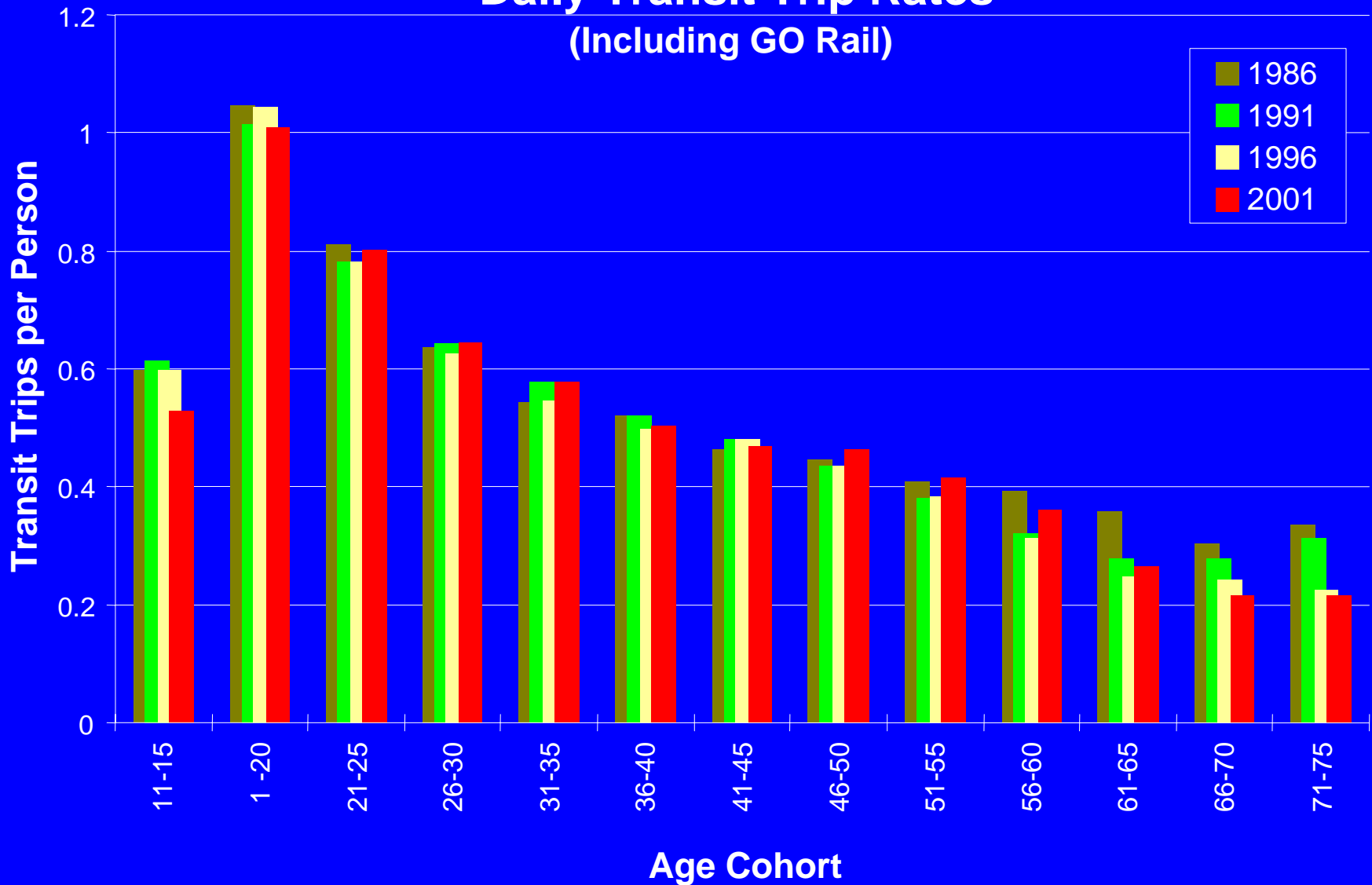


Non-GTA Residents Auto Trip Rate (Driver and Passenger)

1996
2001



Toronto Residents Daily Transit Trip Rates (Including GO Rail)

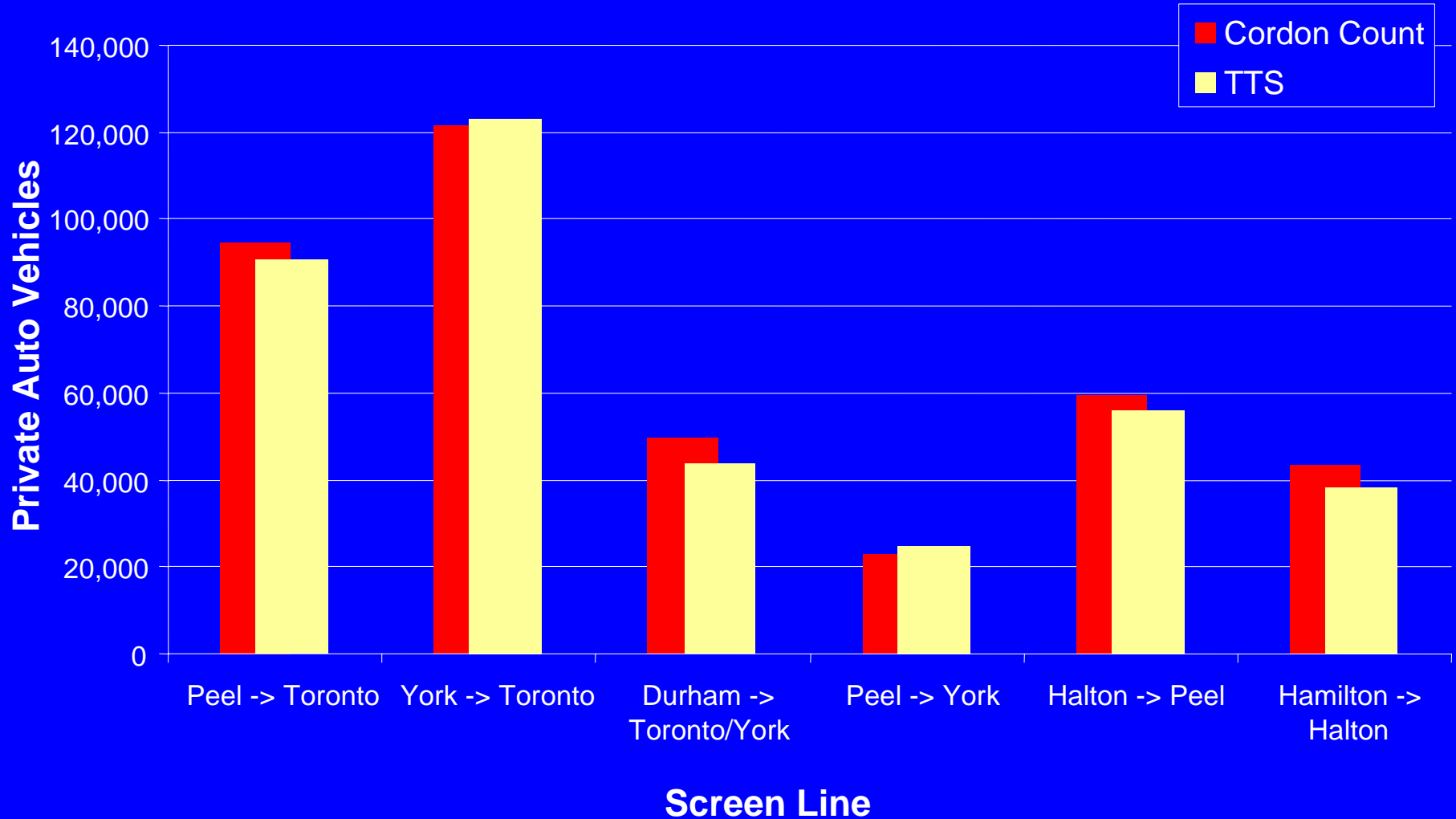


Inbound Towards Toronto

AM Peak Period

Count - 6:15 to 9:15 a.m.

TTS - 6:00 to 8:59 a.m.

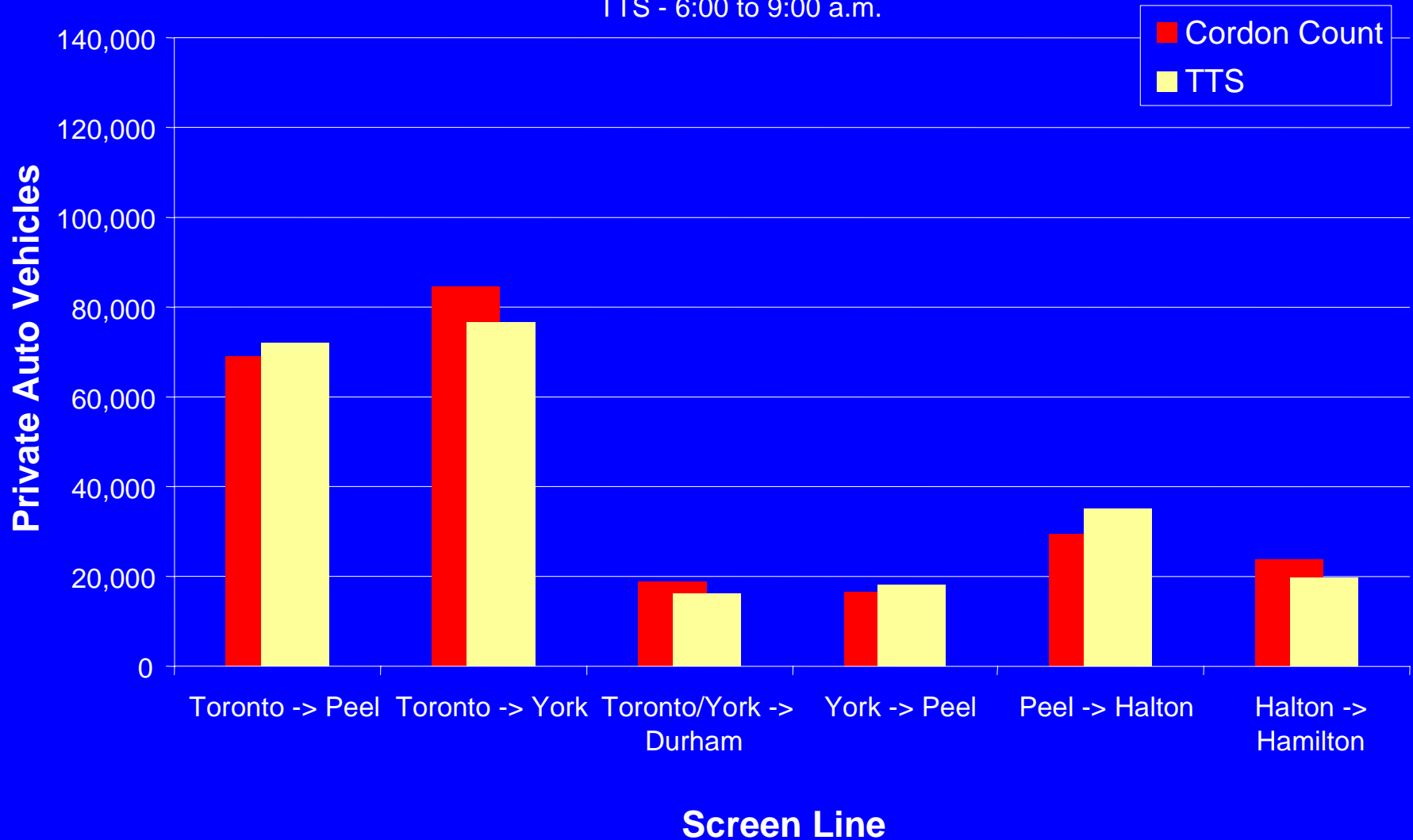


Outbound Away From Toronto

AM Peak Period

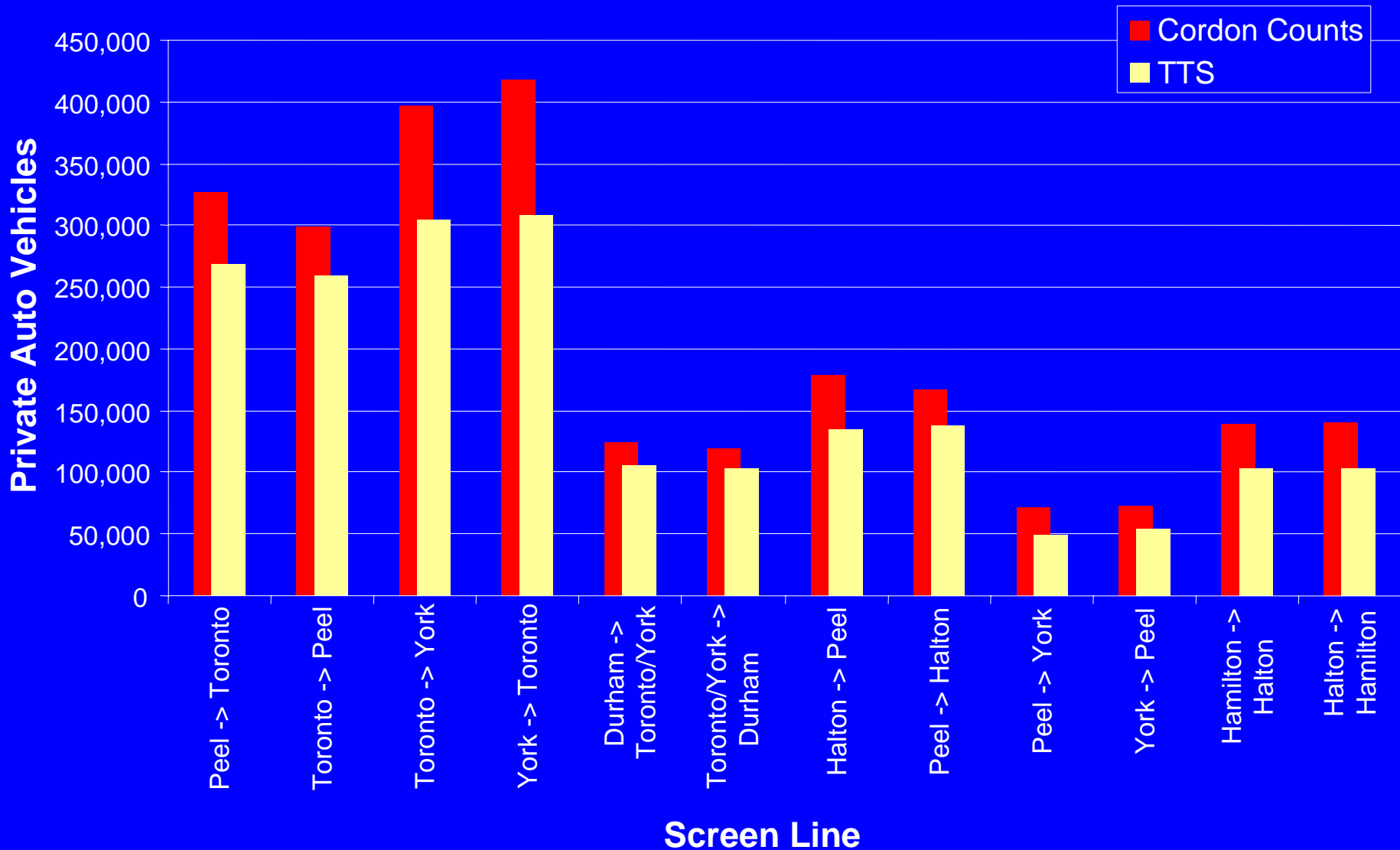
Count - 6:15 to 9:15 a.m.

TTS - 6:00 to 9:00 a.m.

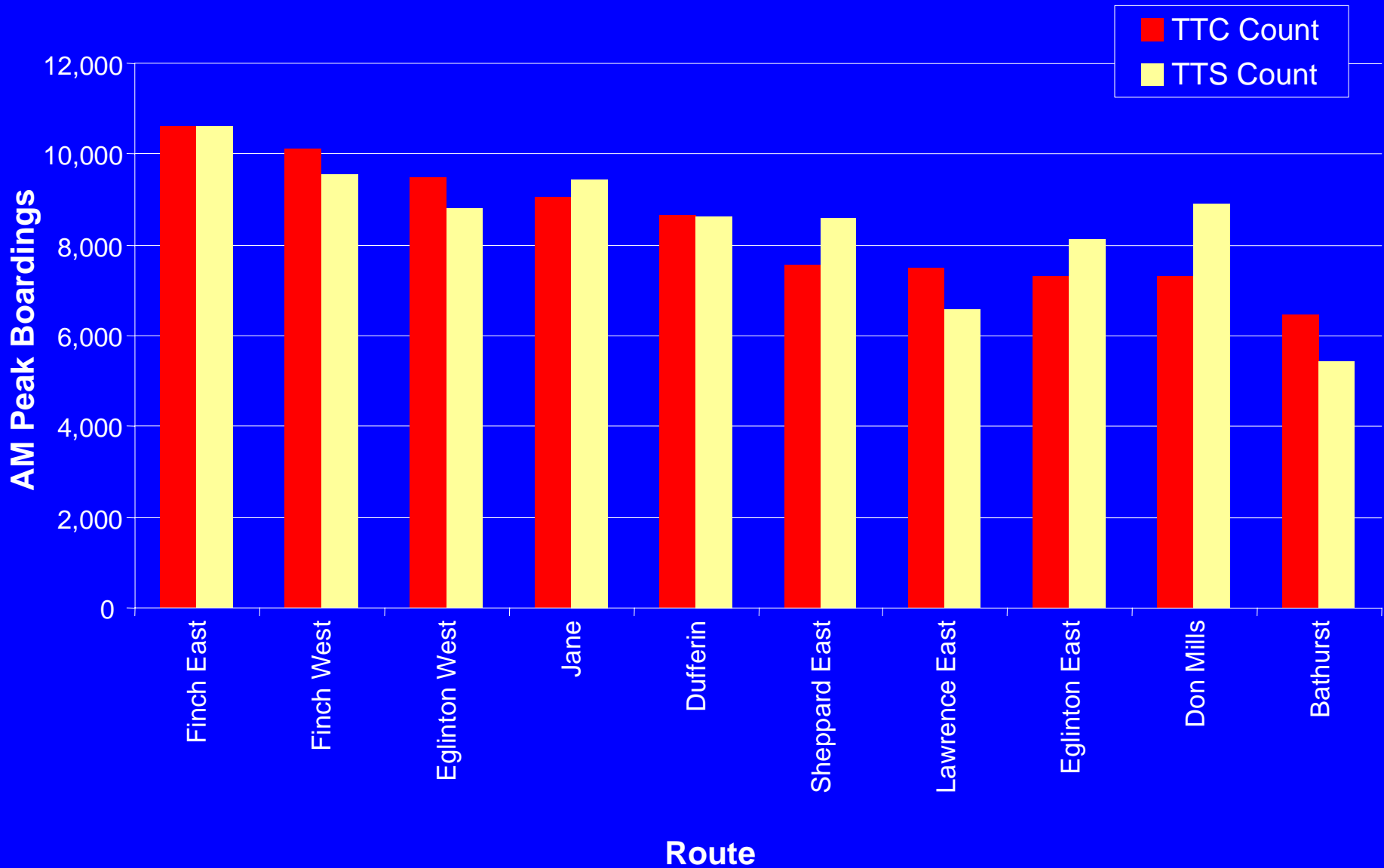


13 Hour Cordon Counts

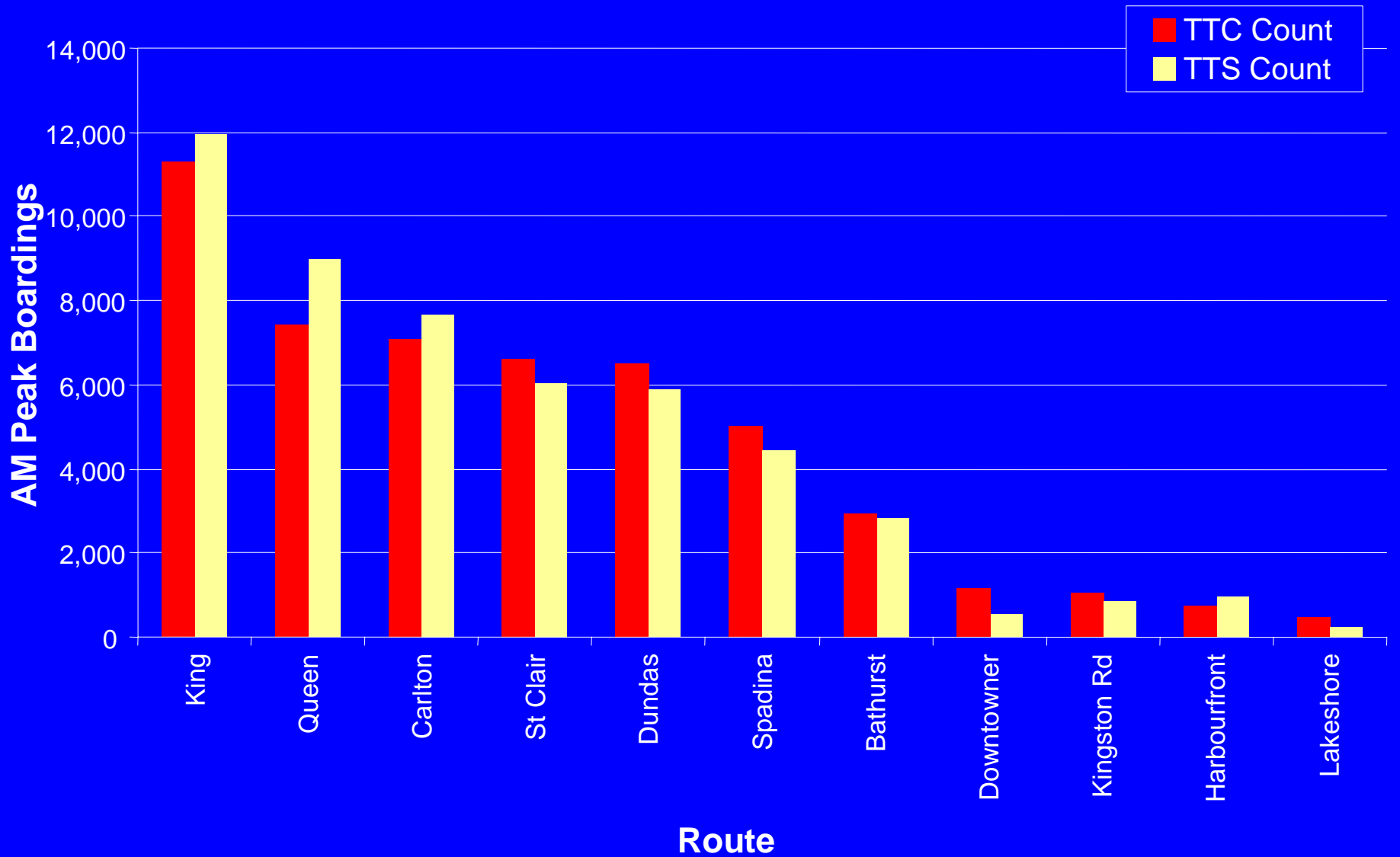
(6:00 a.m. to 7:00 p.m.)



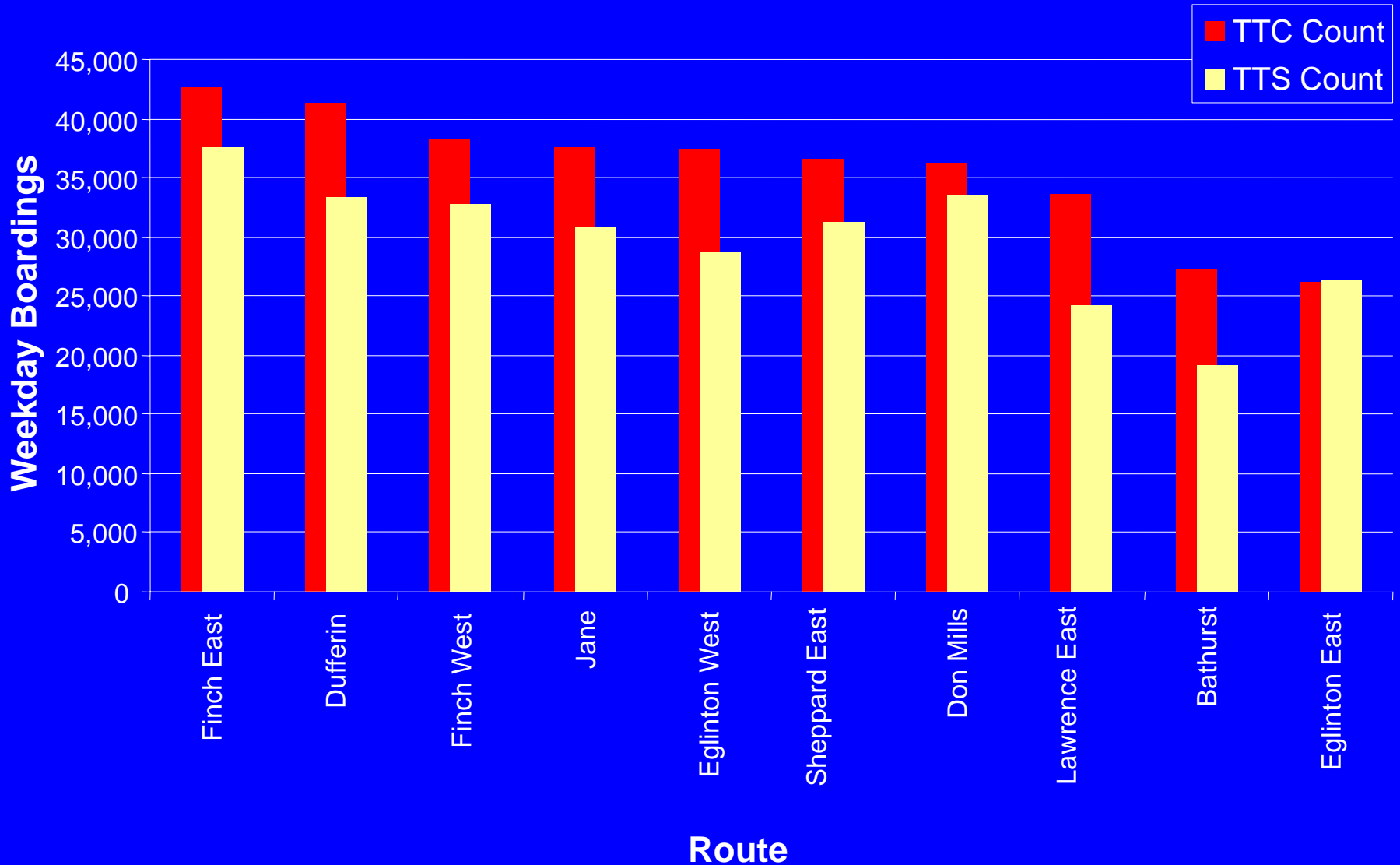
TTC - 10 Busiest Bus Routes



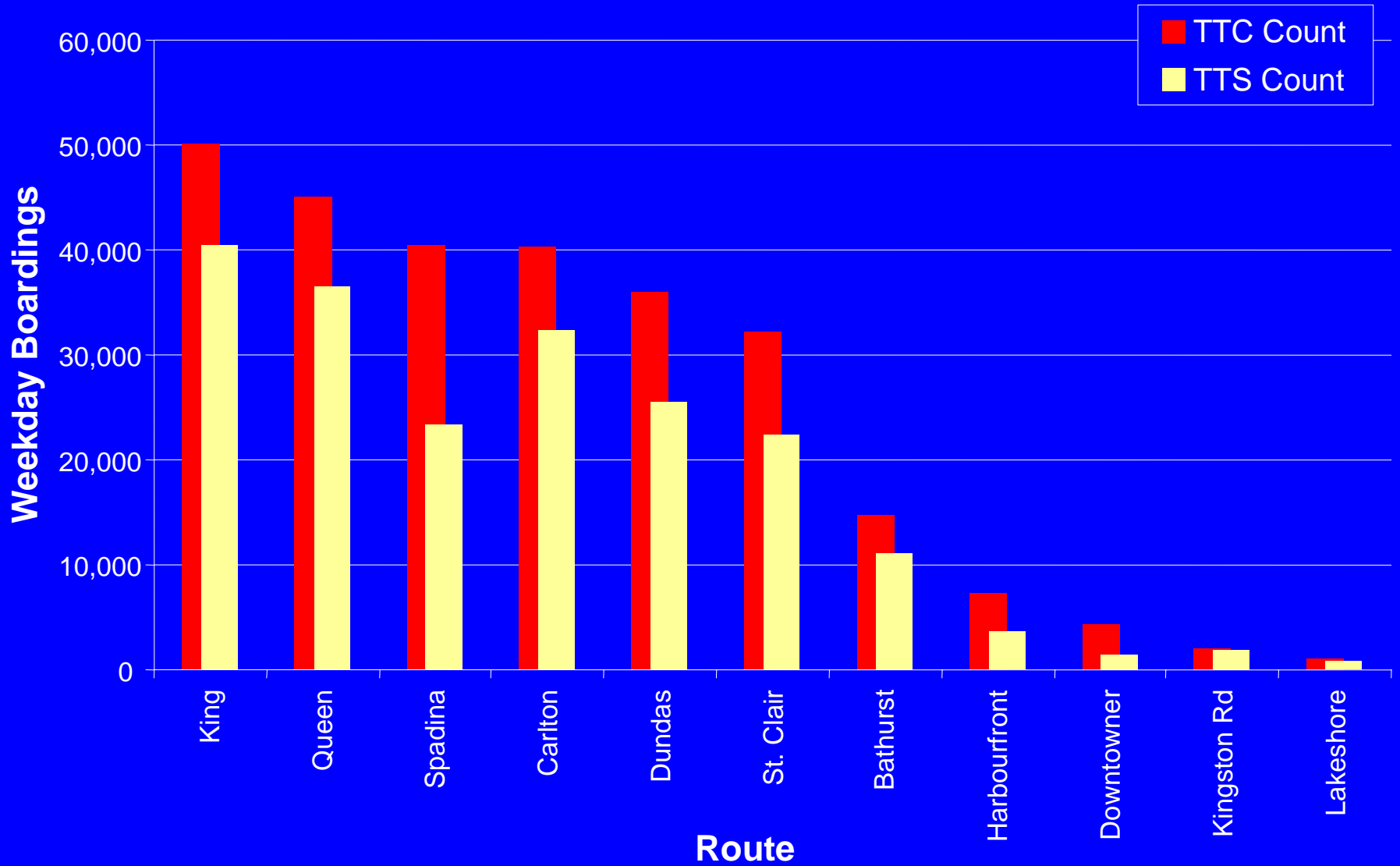
TTC - Streetcar



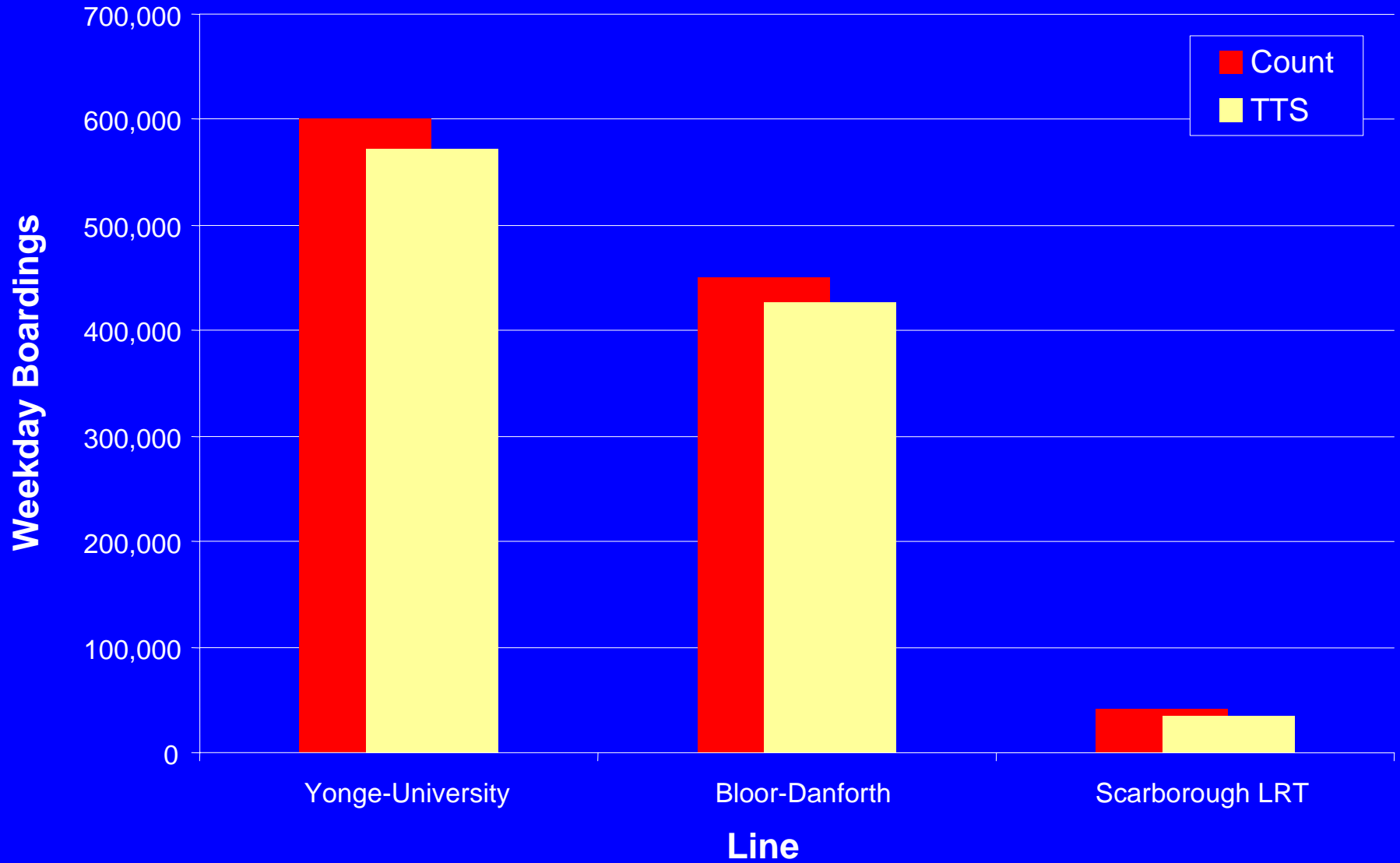
TTC - 10 Busiest Routes



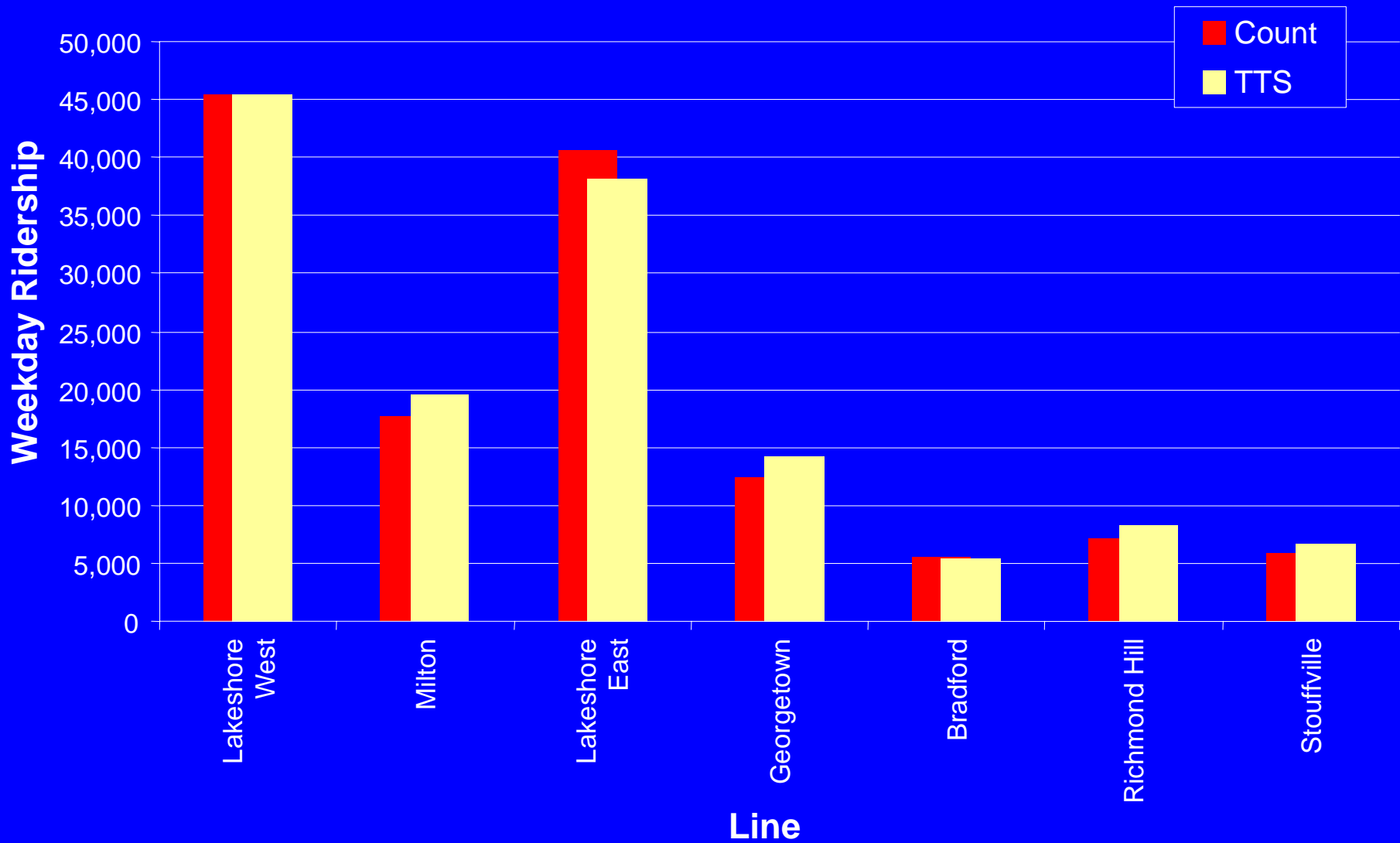
TTC - Streetcar



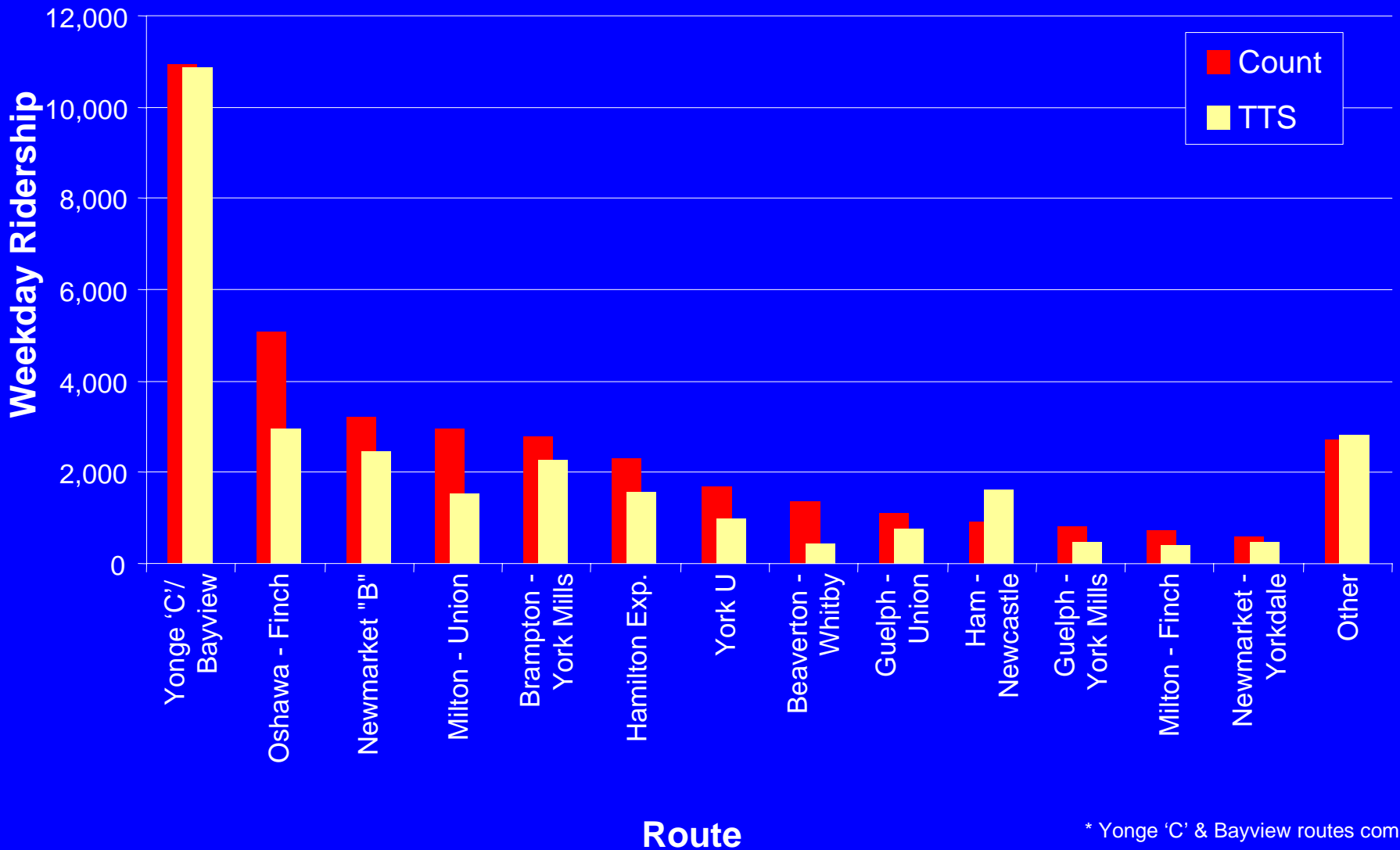
TTC Subway Ridership



GO Rail Ridership



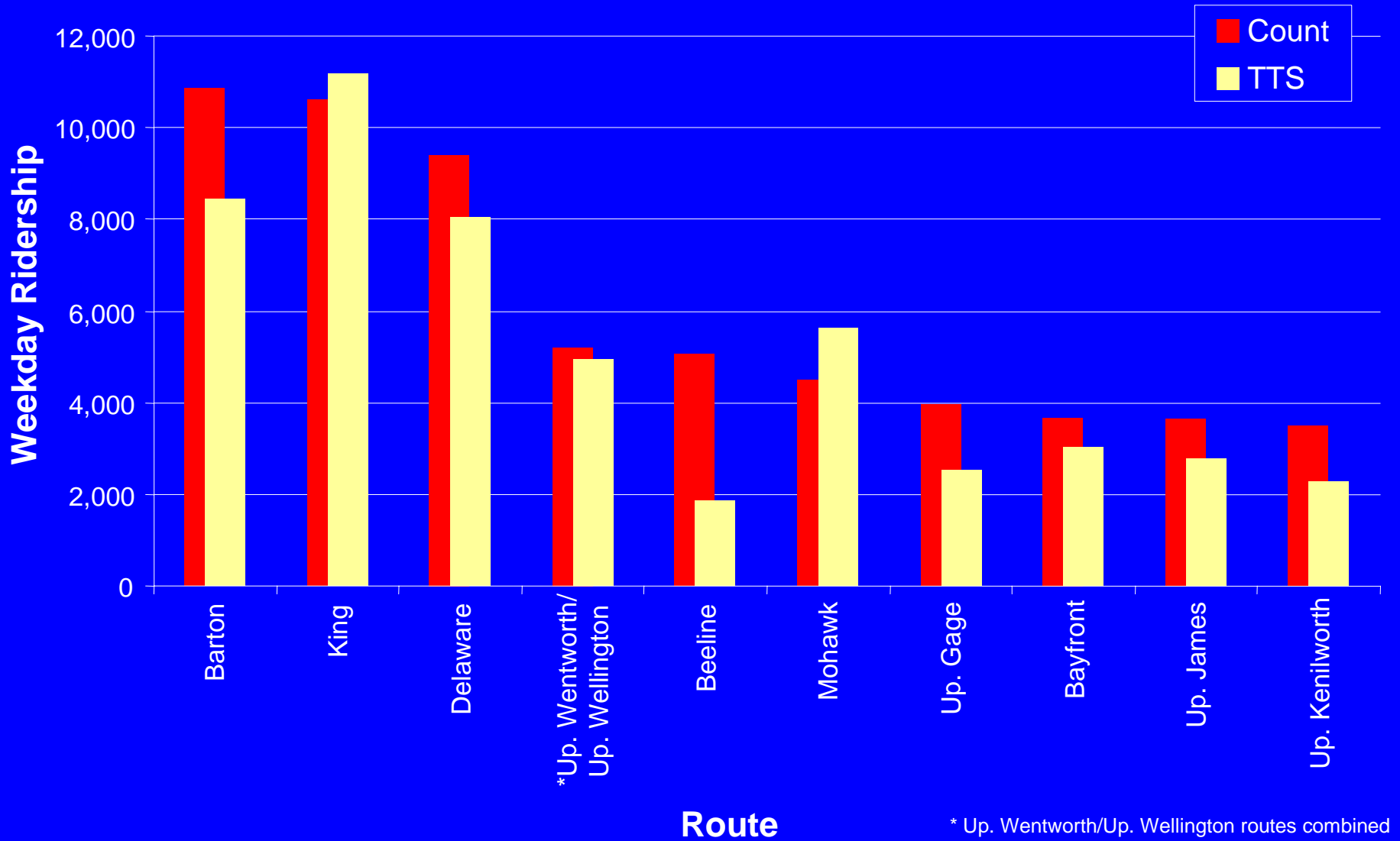
GO Bus Ridership



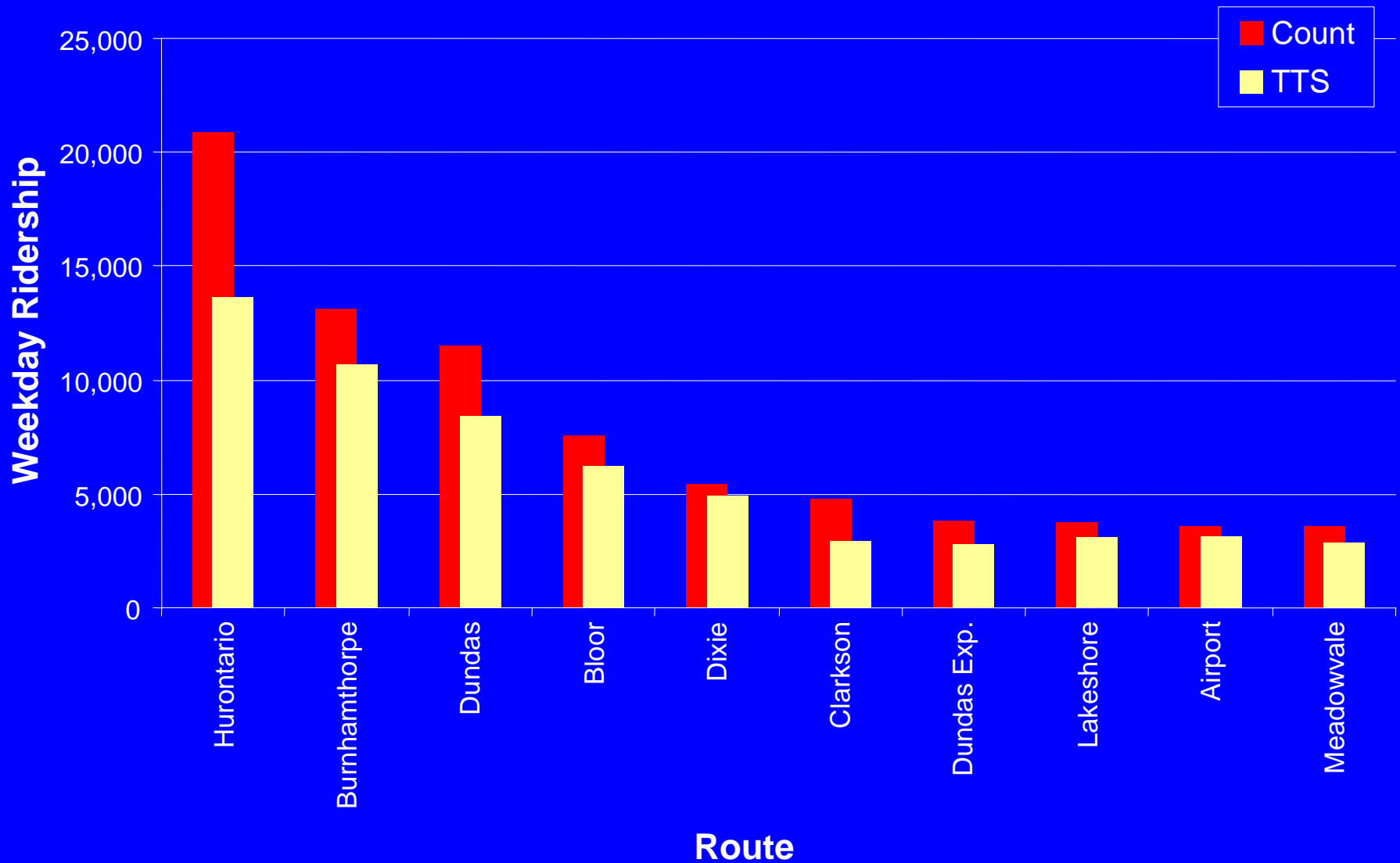
* Yonge 'C' & Bayview routes combined



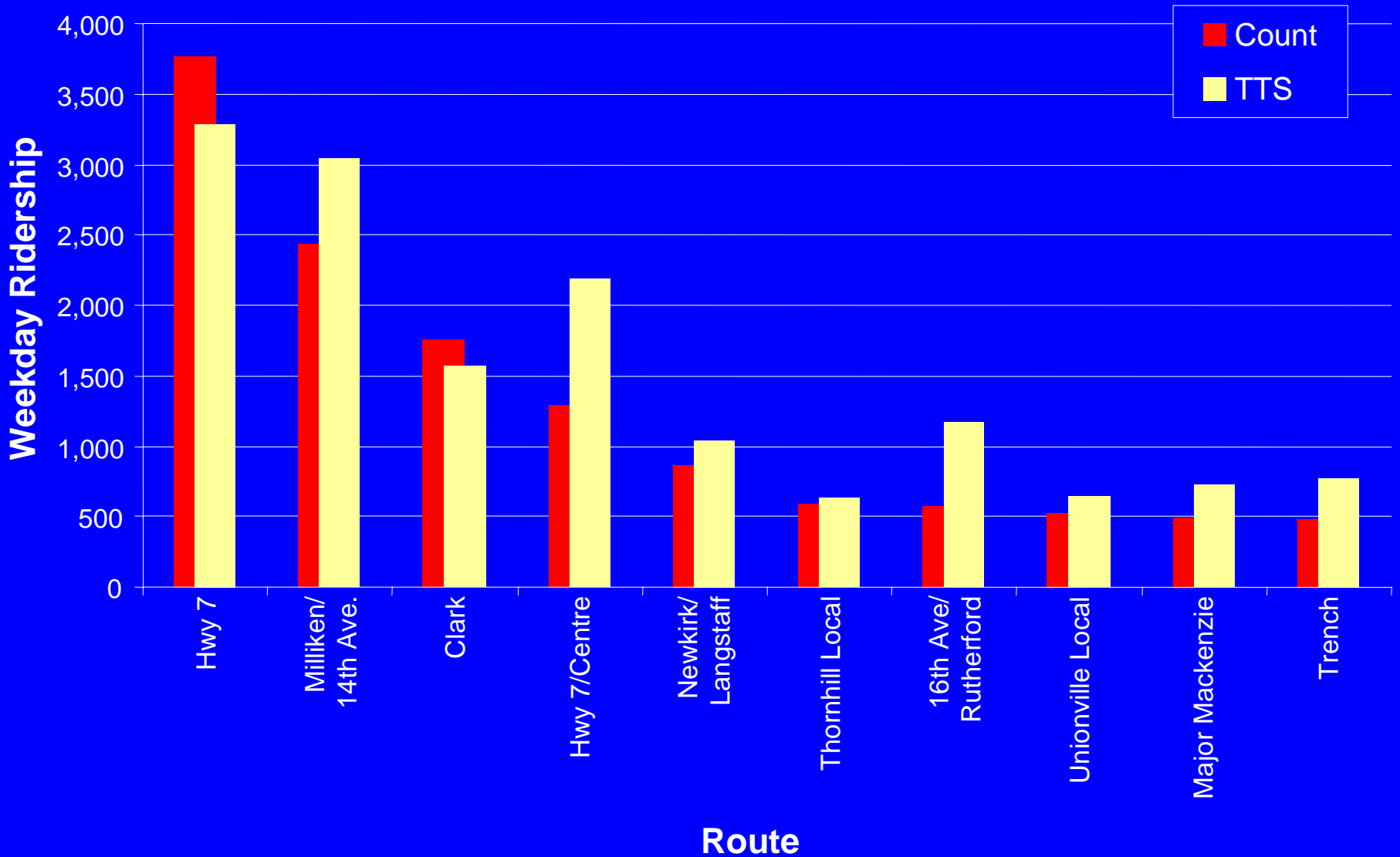
Hamilton Transit - 10 Busiest Routes



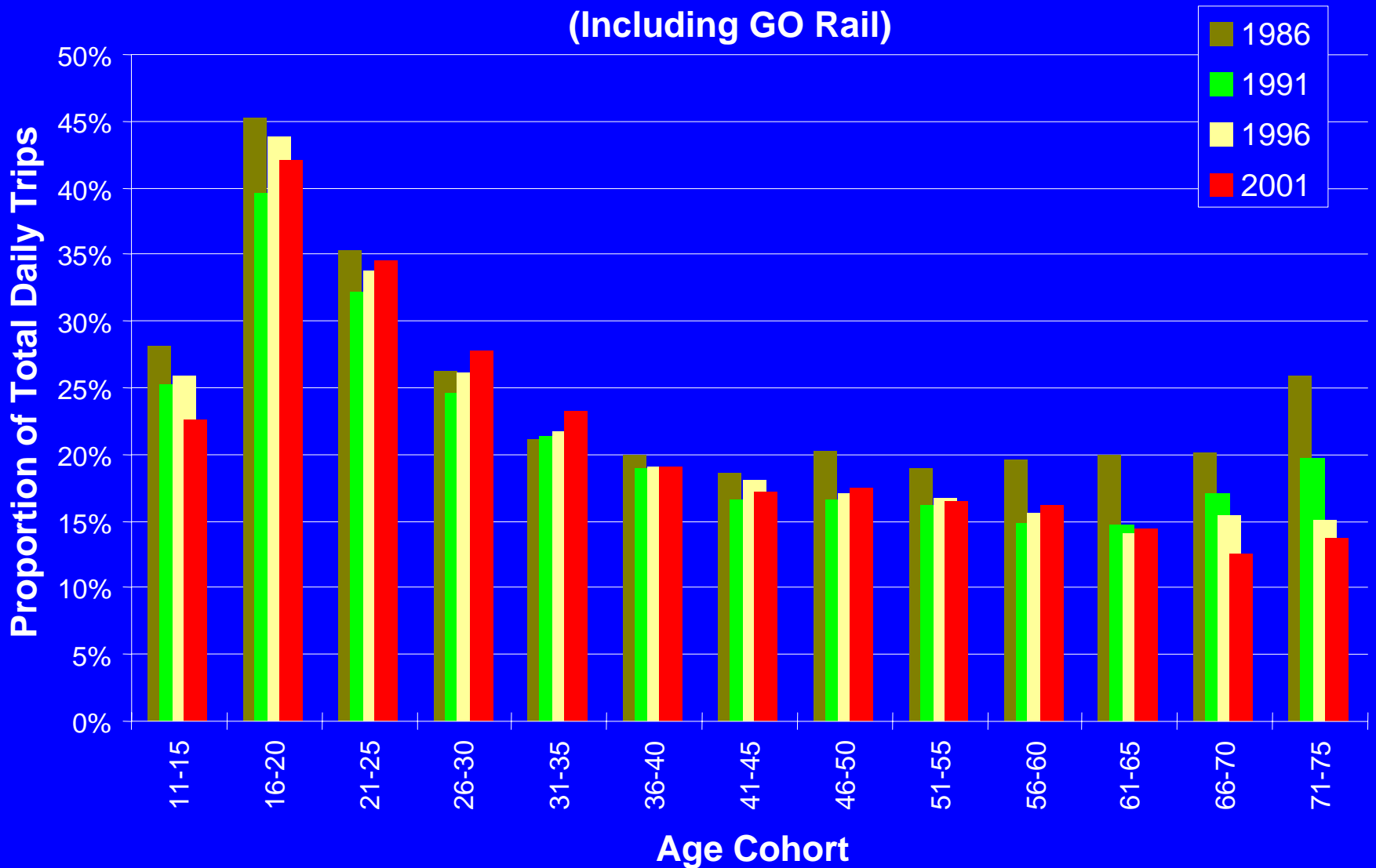
Mississauga Transit - 10 Busiest Routes



York Region Transit - 10 Busiest Routes



Toronto Residents Transit Mode Split (Including GO Rail)



Data Access

Data Structure

Relational Database

- Household, Person, Trip and Transit Supplement

Standard Aggregations

- Traffic Zones, Municipalities and Regions

Data Retrieval System

- Password protected secure internet site
- Web browser access with interactive menu system
- Allows up to three dimensional cross-tabulations on any combination of household, person or trip information
- Format of output in text with comma delimited fields
- Processing time for normal request is a few minutes

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