

---

# A Quick Guide to Interactive Statistics

## Introduction

Interactive Statistics provides access to more detailed data tables than those in the Key Statistics section of the University Planning Office website at Ryerson University. These data tables are interactive — enabling users to use their Internet Explorer, Firefox or Safari browser to display and re-organize data in ways that suit their individual needs. Users can choose which of the available data elements to display on each axis, select subgroups or specific years, create quick charts, and download data to a spreadsheet, among other features. Interactive Statistics uses Beyond 20/20 software on a web data server to generate the data tables.

## Selecting Relevant Data

Interactive Statistics enables users to show only the most relevant data. There are three key ways of selecting which data to display.

Data variables that are available for use are shown as moveable “tiles” with a grey background:



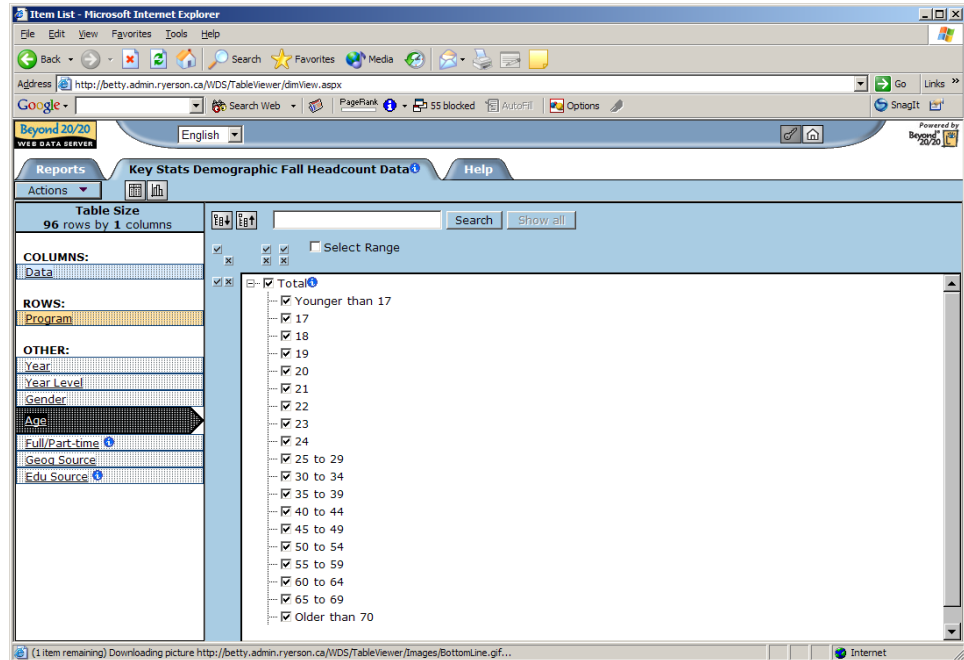
To cycle through subcategories, click on the left or right arrow of the tile corresponding to the data of interest. For example, to show data for Female students click on one of the arrows in the Gender tile until Female is shown. The data table will update automatically.



It is also possible to choose to show data for a selected group of students. Groups are shown by underlined entries. To show, data for an individual group click on its underlined title. Clicking on Arts will cause data for only the constituent programs in the Faculty of Arts to be shown. (If an entry is not underlined then it is not a group and cannot be disaggregated further.)

<u>Undergraduate Programs by Faculty</u>	19,168
<u>Arts</u>	1,004
Arts and Contemporary Studies	209
Diploma in Arts	142
Geographic Analysis	207

Pointing to the variable name on a tile will cause the cursor to change to a hand shape. Clicking on the tile at this time will then cause a detailed selection window to appear.



Clicking on the check marks will unselect age groups and students with ages in those ranges will be excluded from the re-calculated table.

To return to the table, click the table view icon .

## Re-Organizing Data

Changing which data is shown on which axis of the table involves moving the tiles corresponding to the variables of interest. Placing the cursor in the grey area of a tile changes the cursor to directional arrows. The tile can then be dragged so that the variable will display on a different axis. Moving the tile to the left of Program in the following example will nest program under academic year. If the tile is moved to the right of Program, then academic years will nest by program.

OTHER:	Year - 2003-04	Year Level - Total	Gender - Total	Age - Total	Full/Part-time - Total
Data		Fall Count			
Program		↑↓			
Graduate Programs		497			
Masters Programs		492			
PhD Programs		5			
Continuing Education (CE)		7,059			
Undergrad Programs (incl CE)		26,227			
Undergrad Programs (excl CE)		19,168			

To show year levels on the horizontal (blue) axis, the Year tile needs to be dragged to the lower part of the Data tile.

OTHER:	Year - 2003-04	Year Level - Total	Gender - Total	Age - Total	Full/Part-time - Total
Data		Fall Count			
Program		↑↓			
Graduate Programs		497			
Masters Programs		492			
PhD Programs		5			
Continuing Education (CE)		7,059			
Undergrad Programs (incl CE)		26,227			
Undergrad Programs (excl CE)		19,168			

## Downloading Data

Data can be downloaded from Interactive Statistics so that they can be used for further calculations in a spreadsheet or formatted in a more elaborate way. To download data, click on the Actions menu, choose the Download report data... option, and then choose the Microsoft Excel format (\*.xls) option.

The screenshot shows the 'Key Stats Demographic Fall Headcount Data' interface. The 'Actions' menu is open, and the 'Download report data...' option is selected. A sub-menu is displayed with the following options:

- Beyond 20/20 table format (\*.ivt)
- Microsoft Excel format (\*.xls)**
- Comma-delimited ASCII format (\*.csv)
- Semicolon-delimited ASCII format (\*.csv)

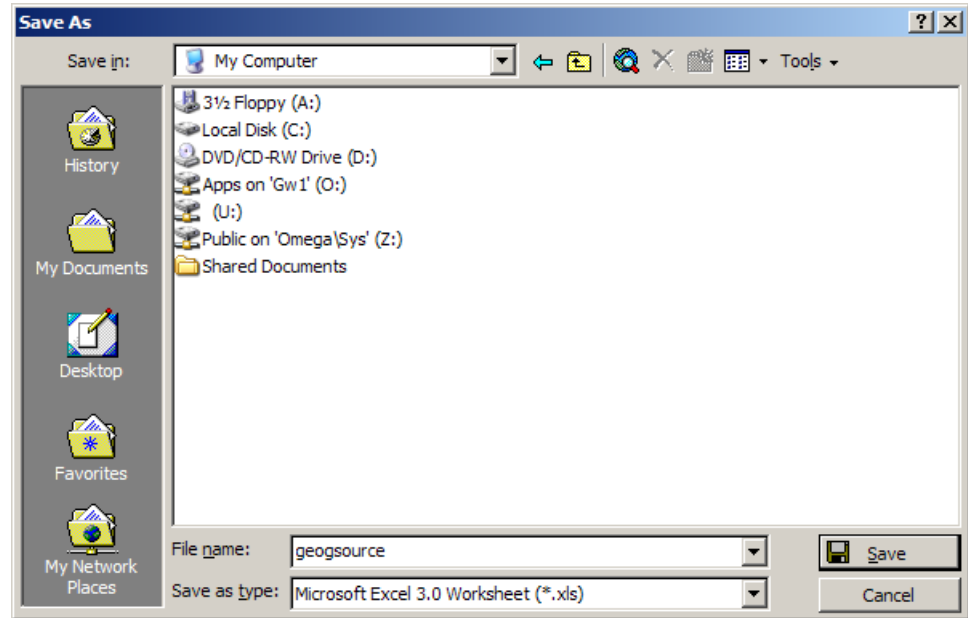
The background table shows demographic data for Fall Headcount Data, including columns for Year Level, Gender, Age, Total, Full/Part-time, Program, Undergrad, and Edu Sourc. The data is organized by Geog Source (City of Toronto, Peel Region, Halton Region, York Region, Durham Region, Other Ontario County, Other Province, Outside Canada, Not Stated, Total).

The data will be displayed as a Microsoft Excel spreadsheet. It is possible to use Excel formulas directly in this spreadsheet view.

The screenshot shows a Microsoft Internet Explorer browser window displaying the downloaded data as a Microsoft Excel spreadsheet. The spreadsheet is titled 'Key Stats Demographic Fall Headcount Data' and contains the following data:

Year Level	Total	Gender	Total	Age	Total	Full/Part-ti	Total	Program	Undergrad	Edu Sourc	Total
Data	Fall Count										
Year	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04			
Geog Source											
City of Toronto	7717	7774	7625	7746	7872	8083	8456	9172			
Peel Region	1793	1871	1916	1945	2142	2311	2499	2830			
Halton Region	411	402	380	392	433	445	474	538			
York Region	1602	1640	1667	1745	1871	2000	2198	2683			
Durham Region	588	598	573	586	629	672	723	794			
Other Ontario County	1677	1562	1518	1532	1587	1633	1740	1996			
Other Province	396	399	381	386	438	402	473	479			
Outside Canada	263	271	260	249	300	391	473	594			
Not Stated	25	21	15	24	39	53	55	82			
Total	14472	14538	14335	14605	15311	15990	17091	19168			

To save the spreadsheet, choose **Save As...** from the File menu. The Save As dialogue box allows you to choose a file name and location where the Excel spreadsheet will save.




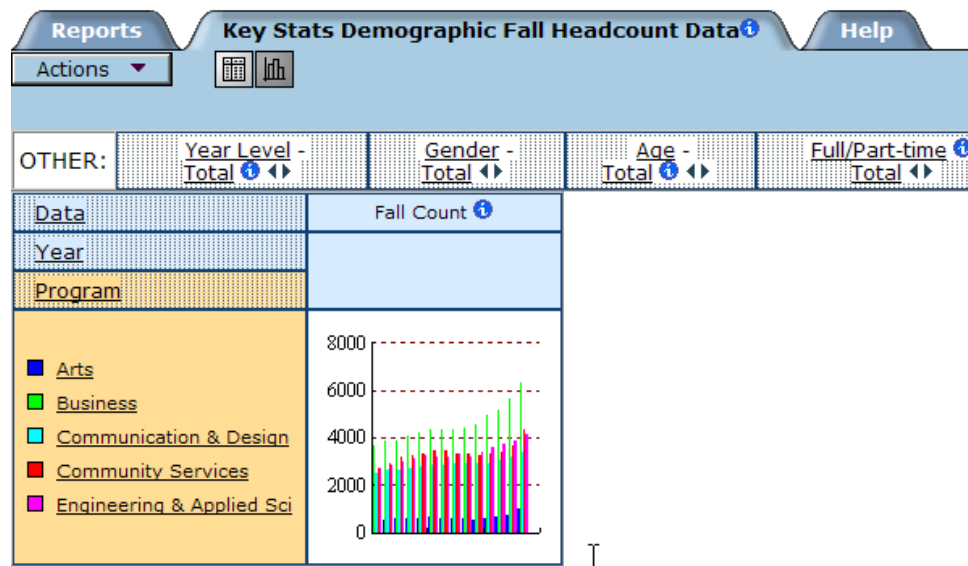


## Drawing Charts

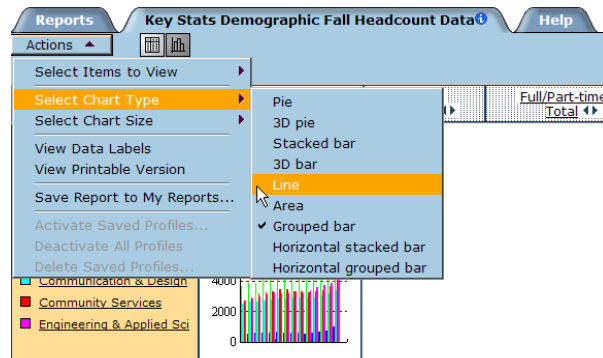
Interactive Statistics also provides a basic charting feature. Before creating a chart it is useful to select and re-organize the data so that only the minimum needed in the chart is shown. To create charts showing changes over time it is helpful to note that the horizontal (blue) dimension should contain the year variable in your data table.

Key Stats Demographic Fall Headcount Data														
OTHER:	Year Level - Total	Gender - Total	Age - Total	Full/Part-time - Total	Geog Source - Total	Edu Source - Total	Fall Count							
Data	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-00	2000-01	2001-02	2002-03	2003-04
Program	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓
Arts	459	522	633	621	628	649	632	621	569	517	585	694	715	1,004
Business	3,653	3,834	3,886	4,062	4,221	4,343	4,334	4,365	4,394	4,574	4,926	5,145	5,650	6,311
Communication & Design	2,527	2,632	2,662	2,688	2,790	2,818	2,827	2,897	2,889	2,902	2,940	3,019	3,165	3,385
Community Services	2,690	2,876	3,156	3,259	3,331	3,452	3,471	3,345	3,299	3,248	3,297	3,405	3,670	4,332
Engineering & Applied Sci	2,684	2,825	2,982	3,126	3,243	3,188	3,208	3,310	3,184	3,364	3,563	3,727	3,891	4,136

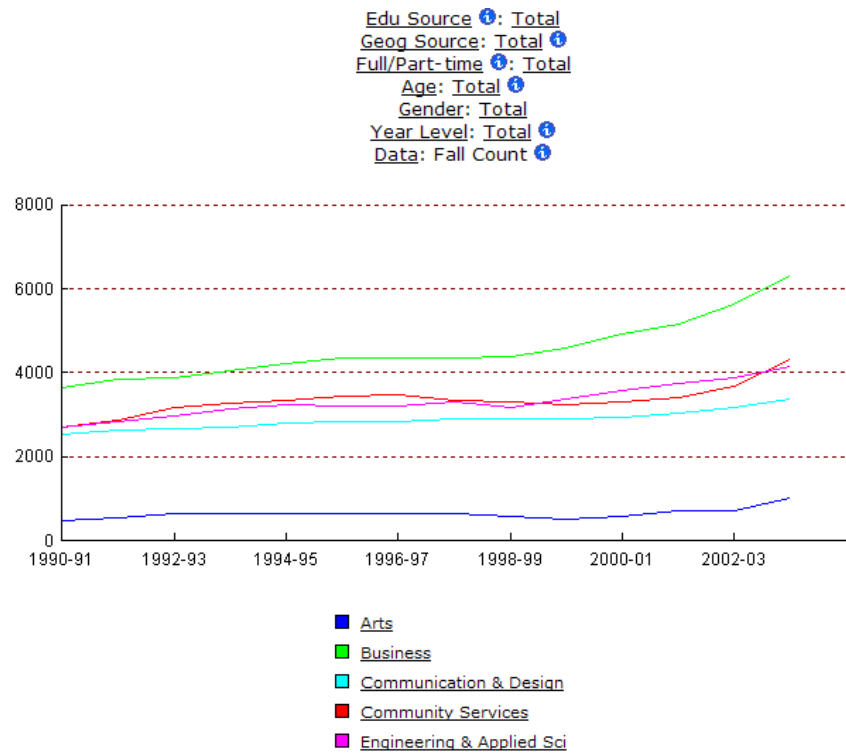
Clicking the chart icon  will cause a default bar chart to be displayed.



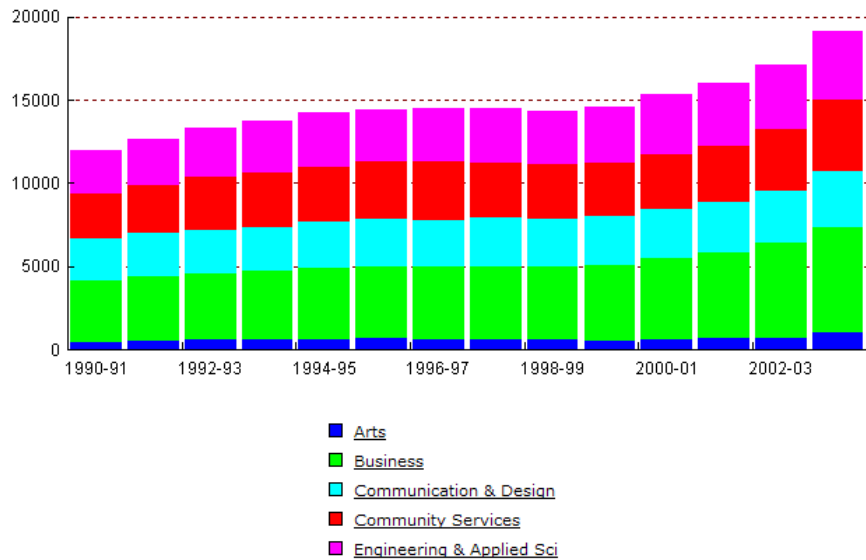
From the Actions menu, choose the Select Chart Type option and then choose Line.



The chart will be redrawn as a line chart. To enlarge the chart to full size, simply click on the chart.



The Actions menu also allows you to quickly change the chart type to stacked bar and many other types.



## Resolving Problems

Network conditions may cause your connection to the server to be lost.

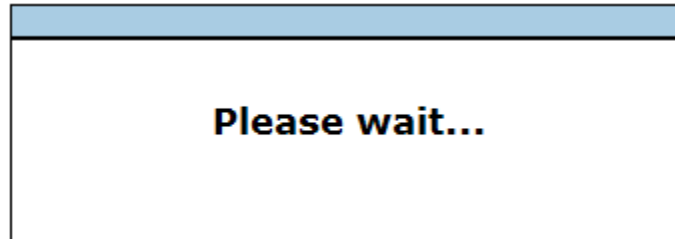
If a message indicating that Beyond 20/20 is unable to open a table appears, try pressing the F5 key or the refresh button on your browser. If this does not resolve the problem, then try exiting your browser and beginning again.



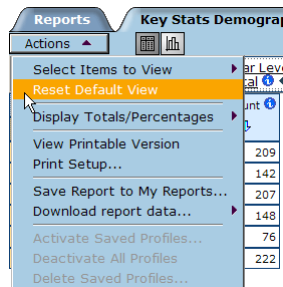
Cannot open table ID=35  
Unable to open the table. It might be corrupt

To return to the previous page, use your browser's 'Back' button


Sometimes a message asking you to wait may appear. Additional authentication is normally conducted for the first data table that you access in your session. The wait time for displaying subsequent tables should be considerably shorter. If the message appears repeatedly, then try exiting your browser and beginning again.



When working with a table you may re-organize the data in a way that does not suit your purposes. To quickly restore the table to the way it looked when first created, click on the Actions menu and choose the Reset Default View option.



Please contact the University Planning Office at 416-979-5033 with any questions of data interpretation, data definitions, or if you experience problems with accessing Interactive Statistics.

Online help is available from within any Interactive Statistics Table by clicking on the  tab.