# Data backgrounder for niqab opinion
# Ottawa Citizen, September 26, 2015

Peter Loewen, University of Toronto
Daniel Rubenson, Ryerson University

Background

This short document describes the data, weights, methods, and results discussed in our Ottawa Citizen column, which appears in print on October 10. All data come from The Local Parliament Project, which is a joint effort with Royce Koop (Manitoba). Research assistance and further data analysis were provided by Lior Sheffer, Maxime Heroux-Legault, Benjamin Allen Stevens, and Alex Mierke-Zatwarnicki. Any errors in analysis or interpretation are our own.

The Local Parliament Project is one of the largest ever studies of Canadian public opinion. Throughout the 2015 general election we are surveying Canadians to find out not only whom they intend to vote for, but what issues are important to them. We are generating important insights on how public opinion varies across the country, how Canadians are linked to their communities, and how this matters for their political choices.

Over the course of the campaign, we will be using these data to provide insights on how Canadians feel about our political leaders, which issues they feel are important, and how they've reacted to important campaign events.

Anyone can participate in our study by going to [www.localparliament.ca](www.localparliament.ca). However, only data provided by our sample provider are included in these reports.

Data

Beginning August 26th, we have sampled approximately 600-800 Canadian adults per day. Our effective sample for this analysis ends on October 6, inclusive, providing a sample of 26,510 individuals. For estimates using the entire sample, this suggests 95% credibility intervals of 0.60 percentage points (at 50%).[1] Our survey is hosted on the Qualtrics platform. Our sample vendor is Research Now.

To maximize the representativeness of the inferences we make from our data, we sometimes apply a "raking" or iterative proportional fitting weighting algorithm. In

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[1] While I do not report confidence intervals for the mean quantities below, it is not my belief that such intervals cannot be constructed for online samples.

particular, we use the ipfweight command in STATA14, weighting on the following variables:

- ○ Age category (18-34, 35-54, 55+)
- ○ Gender (Male, Female)[2]
- ○ Education (Non-university graduates, university graduates}
- ○ Language of survey completion (English, French)

We use provincial population frequencies as a start or "design" weight. We limit the maximum number of fitting iterations to 50. We set upper weight thresholds of 5 and lower weight thresholds of .2. Or mean weight above 1 is 1.28 (sd .16). Our mean weight below 1 is .66 (sd .20). Our maximum and minimum weights are .20 and 2.26. More information on our weighting scheme is available upon request.

Question wording

The following is the complete question wording for all variables used in our analysis. We present them in the order they appear in the survey. Our complete instrument is available by taking our survey at www.localparliament.ca.

v_noleader Which party do you think you will vote for?
- ○ The Liberal Party (1)
- ○ The Conservative Party (2)
- ○ The New Democratic Party (3)

If In which province/territory do you live? Quebec Is Selected
- ○ The Bloc Québécois (4)
- ○ The Green Party (5)
- ○ Undecided (6)
- ○ Don't know (7)

How did you vote in the 2011 federal election?
- ○ Liberal (1)
- ○ Conservative (2)
- ○ New Democratic Party (3)
- ○ Bloc Québécois (4)
- ○ Green (5)
- ○ None of these (6)
- ○ I did not vote (7)
- ○ I was not eligible to vote (9)

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[2] We do provide respondents an "other" category, but the reported quantities are too small to weight on.

❍ Don't know (8)

Q579   Women wearing a niqab/face covering should be forced to reveal their face when giving an oath of citizenship.
❍ Strongly disagree (1)
❍ Disagree (2)
❍ Neither agree nor disagree (3)
❍ Agree (4)
❍ Strongly agree (5)
❍ Don't know (6)

Q580 How important is this issue to you?
❍ Not important at all (1)
❍ Somewhat important (2)
❍ Very important (3)
❍ Don't know (4)

Q582 Women working in the federal civil service should not be allowed to wear niqab/face covering when interacting with the public.
❍ Strongly disagree (1)
❍ Disagree (2)
❍ Neither agree nor disagree (3)
❍ Agree (4)
❍ Strongly agree (5)
❍ Don't know (6)

Q583 How important is this issue to you?
❍ Not important at all (1)
❍ Somewhat important (2)
❍ Very important (3)
❍ Don't know (4)

born Were you born in Canada?
❍ Yes (1)
❍ No (2)

religion1 Do you belong to a religion or a religious denomination? If yes, which one?
- ○ No (1)
- ○ Roman Catholic (2)
- ○ Protestant (3)
- ○ Jewish (4)
- ○ Muslim (5)
- ○ Hindu (6)
- ○ Orthodox (Russian/Greek/etc.) (7)
- ○ Buddhism (9)
- ○ Other (10)

## Results

Our annotated results are contained in the log file which follows. If you have any questions, suggestions, or concerns, please feel free to contact me at 647.232.7335 or peter.loewen@utoronto.ca.

```
         name:   <unnamed>
          log:   /Users/peterjohnloewen/Dropbox/local-parliament/Columns/niqab.smcl
     log type:   smcl
    opened on:    9 Oct 2015, 15:54:59
```

```
1 .
2 . ****Views on the niqab
3 .
4 . **citizenship ceremonies - top line, by 2011 vote, and by immigrant
5 .
6 . tab Q579 [iweight=weight]
```

| Women wearing a niqab/face covering should be forced to reveal their face when g | Freq. | Percent | Cum. |
|---|---|---|---|
| Strongly disagree | 135.8547136 | 8.24 | 8.24 |
| Disagree | 92.0402652 | 5.58 | 13.83 |
| Neither agree nor disagree | 173.023033 | 10.50 | 24.33 |
| Agree | 309.122459 | 18.76 | 43.08 |
| Strongly agree | 875.609353 | 53.13 | 96.21 |
| Don't know | 62.4290366 | 3.79 | 100.00 |
| Total | 1,648.0789 | 100.00 | |

```
7 . tab Q579 vote2011 [iweight=weight], col
```

| Key |
|---|
| frequency |
| column percentage |

| Women wearing a niqab/face covering should be forced to reveal their face when g | How did you vote in the 2011 federal election? | | | | | |
|---|---|---|---|---|---|---|
| | Liberal | Conservat | New Democ | Bloc Qu√© | Green | |
| Strongly disagree | 44.684957 | 11.341191 | 27.0625 | 3.9202756 | 3.9774769 | 90.9 |
| | 15.50 | 2.59 | 8.65 | 4.31 | 4.84 | |
| Disagree | 21.56276 | 12.727597 | 22.091781 | 2.467756 | 3.2742701 | 62.12 |
| | 7.48 | 2.91 | 7.06 | 2.71 | 3.99 | |
| Neither agree nor dis | 37.365173 | 34.661639 | 32.307403 | 5.4366669 | 18.3352862 | 128. |
| | 12.96 | 7.92 | 10.32 | 5.98 | 22.33 | |
| Agree | 69.4702327 | 81.742206 | 54.469277 | 9.9334145 | 17.725808 | 233. |
| | 24.09 | 18.68 | 17.41 | 10.92 | 21.59 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| Strongly agree | 108.08218 | 291.15658 | 172.179 | 68.029438 | 31.034057 | 670. |
| | 37.49 | 66.55 | 55.02 | 74.78 | 37.80 | |
| Don't know | 7.1540036 | 5.8783251 | 4.8325257 | 1.1876616 | 7.7580401 | 26.8 |
| | 2.48 | 1.34 | 1.54 | 1.31 | 9.45 | |
| Total | 288.31931 | 437.50754 | 312.94249 | 90.975213 | 82.104939 | 1,21 |
| | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 1 |

8 . tab Q579 born [iweight=weight], col

| Key |
|---|
| *frequency* |
| *column percentage* |

| Women wearing a niqab/face covering should be forced to reveal their face when g | Were you born in Canada? | | |
|---|---|---|---|
| | Yes | No | Total |
| Strongly disagree | 118.93956 | 16.915154 | 135.85471 |
| | 8.07 | 9.71 | 8.24 |
| Disagree | 83.517873 | 8.522392 | 92.040265 |
| | 5.67 | 4.89 | 5.58 |
| Neither agree nor dis | 149.79846 | 23.224578 | 173.02303 |
| | 10.16 | 13.33 | 10.50 |
| Agree | 276.11607 | 33.006387 | 309.12246 |
| | 18.74 | 18.94 | 18.76 |
| Strongly agree | 787.28999 | 88.319367 | 875.60935 |
| | 53.42 | 50.68 | 53.13 |
| Don't know | 58.133954 | 4.2950828 | 62.429037 |
| | 3.94 | 2.46 | 3.79 |
| Total | 1,473.7959 | 174.28296 | 1,648.079 |
| | 100.00 | 100.00 | 100.00 |

```
 9 .
10 . ***public service workers
11 .
12 . tab Q582 [iweight=weight]
```

| Women working in the federal civil service | |
|---|---|

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| should not be allowed to wear niqab/f | Freq. | Percent | Cum. |
|---|---|---|---|
| Strongly disagree | 155.851017 | 9.46 | 9.46 |
| Disagree | 164.317459 | 9.97 | 19.43 |
| Neither agree nor disagree | 211.090749 | 12.81 | 32.24 |
| Agree | 319.511508 | 19.39 | 51.62 |
| Strongly agree | 734.648585 | 44.58 | 96.20 |
| Don't know | 62.6595433 | 3.80 | 100.00 |
| Total | 1,648.0789 | 100.00 | |

13 . tab Q582 vote2011 [iweight=weight], col

| Key |
|---|
| *frequency* |
| *column percentage* |

| Women working in the federal civil service should not be allowed to wear niqab/f | How did you vote in the 2011 federal election? | | | | | |
|---|---|---|---|---|---|---|
| | Liberal | Conservat | New Democ | Bloc Qu√© | Green | |
| Strongly disagree | 36.65234 | 28.590367 | 27.13194 | 6.6312641 | 6.608254 | 105. |
| | 12.71 | 6.53 | 8.67 | 7.29 | 8.05 | |
| Disagree | 47.72884 | 35.985533 | 32.139712 | 1.1930512 | 5.9271876 | 122. |
| | 16.55 | 8.23 | 10.27 | 1.31 | 7.22 | |
| Neither agree nor dis | 38.141752 | 44.168313 | 37.045776 | 2.39113766 | 22.048551 | 143. |
| | 13.23 | 10.10 | 11.84 | 2.63 | 26.85 | |
| Agree | 52.4000341 | 107.0709 | 60.142715 | 8.3211168 | 10.730087 | 238. |
| | 18.17 | 24.47 | 19.22 | 9.15 | 13.07 | |
| Strongly agree | 108.71309 | 215.36337 | 148.31658 | 70.537704 | 30.8771137 | 573. |
| | 37.71 | 49.23 | 47.39 | 77.54 | 37.61 | |
| Don't know | 4.6832483 | 6.3290508 | 8.1657674 | 1.9009385 | 5.9137452 | 26. |
| | 1.62 | 1.45 | 2.61 | 2.09 | 7.20 | |
| Total | 288.31931 | 437.50754 | 312.94249 | 90.975213 | 82.104939 | 1,21 |
| | 100.00 | 100.00 | 100.00 | 100.00 | 100.00 | 1 |

14 . tab Q582 born [iweight=weight], col

| Key |
|---|
| *frequency* |

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*column percentage*

| Women working in the federal civil service should not be allowed to wear niqab/f | Were you born in Canada? | | |
|---|---|---|---|
| | Yes | No | Total |
| Strongly disagree | 141.53361 | 14.317404 | 155.851017 |
| | 9.60 | 8.22 | 9.46 |
| Disagree | 150.69961 | 13.617853 | 164.31746 |
| | 10.23 | 7.81 | 9.97 |
| Neither agree nor dis | 183.07539 | 28.015361 | 211.09075 |
| | 12.42 | 16.07 | 12.81 |
| Agree | 273.76792 | 45.743586 | 319.51151 |
| | 18.58 | 26.25 | 19.39 |
| Strongly agree | 664.79156 | 69.857025 | 734.64858 |
| | 45.11 | 40.08 | 44.58 |
| Don't know | 59.9278107 | 2.7317326 | 62.659543 |
| | 4.07 | 1.57 | 3.80 |
| Total | 1,473.7959 | 174.28296 | 1,648.079 |
| | 100.00 | 100.00 | 100.00 |

```
15 .
16 . ***Conservative vote by immigrants
17 .
18 . gen CON=0 if firstchoice<6
   (16107 missing values generated)

19 . replace CON=1 if firstchoice==2
   (4813 real changes made)

20 .
21 .
22 . xi: estsimp logit CON age gender education income immigrant i.religion1 i.province
   i.religion1      _Ireligion1_1-10    (naturally coded; _Ireligion1_1 omitted)
   i.province       _Iprovince_1-12     (naturally coded; _Iprovince_1 omitted)

   Iteration 0:   log likelihood = -9120.2334
   Iteration 1:   log likelihood = -8277.7615
   Iteration 2:   log likelihood = -8260.9518
   Iteration 3:   log likelihood = -8260.9045
   Iteration 4:   log likelihood = -8260.9045

   Logistic regression                    Number of obs   =      14805
                                          LR chi2(22)     =    1718.66
                                          Prob > chi2     =     0.0000
```

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```
Log likelihood = -8260.9045                           Pseudo R2        =        0.0942
```

| CON | Coef. | Std. Err. | z | P>\|z\| | [95% Conf. Interval] | |
|---|---|---|---|---|---|---|
| age | .0113498 | .0012464 | 9.11 | 0.000 | .0089069 | .0137928 |
| gender | -.3047111 | .038978 | -7.82 | 0.000 | -.3811066 | -.2283156 |
| education | -.1146246 | .0138023 | -8.30 | 0.000 | -.1416767 | -.0875726 |
| income | .1054532 | .0084839 | 12.43 | 0.000 | .0888251 | .1220813 |
| immigrant | .3206754 | .059076 | 5.43 | 0.000 | .2048885 | .4364623 |
| _Ireligion~2 | .2759311 | .0493243 | 5.59 | 0.000 | .1792573 | .3726049 |
| _Ireligion~3 | .906007 | .055901 | 16.21 | 0.000 | .796443 | 1.015571 |
| _Ireligion~4 | 1.442669 | .1454411 | 9.92 | 0.000 | 1.15761 | 1.727729 |
| _Ireligion~5 | -.7679949 | .2285448 | -3.36 | 0.001 | -1.215934 | -.3200554 |
| _Ireligion~6 | -.3701227 | .2483912 | -1.49 | 0.136 | -.8569605 | .1167151 |
| _Ireligion~7 | .2194429 | .1549478 | 1.42 | 0.157 | -.0842492 | .523135 |
| _Ireligion~9 | -.2607334 | .1933902 | -1.35 | 0.178 | -.6397712 | .1183043 |
| _Ireligio~10 | .502999 | .0751024 | 6.70 | 0.000 | .355801 | .6501969 |
| _Iprovince_2 | -.9950823 | .0752906 | -13.22 | 0.000 | -1.142649 | -.8475154 |
| _Iprovince_3 | -.6166658 | .1088291 | -5.67 | 0.000 | -.8299669 | -.4033647 |
| _Iprovince_4 | -1.19859 | .1451346 | -8.26 | 0.000 | -1.483049 | -.9141318 |
| _Iprovince_5 | -1.395077 | .1893422 | -7.37 | 0.000 | -1.766181 | -1.023973 |
| _Iprovince_7 | -1.557382 | .1463291 | -10.64 | 0.000 | -1.844182 | -1.270583 |
| _Iprovince_9 | -.9284233 | .0619671 | -14.98 | 0.000 | -1.049877 | -.80697 |
| _Iprovinc~10 | -2.255594 | .4380377 | -5.15 | 0.000 | -3.114132 | -1.397056 |
| _Iprovinc~11 | -1.603464 | .069899 | -22.94 | 0.000 | -1.740463 | -1.466464 |
| _Iprovinc~12 | -.6807284 | .1155112 | -5.89 | 0.000 | -.9071261 | -.4543306 |
| _cons | -.3108541 | .1195866 | -2.60 | 0.009 | -.5452396 | -.0764686 |

```
Simulating main parameters.  Please wait....
% of simulations completed: 4% 8% 13% 17% 21% 26% 30% 34% 39% 43% 47% 52% 56% 60% 65
>  95% 100%

Number of simulations  : 1000
Names of new variables : b1 b2 b3 b4 b5 b6 b7 b8 b9 b10 b11 b12 b13 b14 b15 b16 b17

23 . setx mean

24 . simqi
```

| Quantity of Interest | Mean | Std. Err. | [95% Conf. Interval] | |
|---|---|---|---|---|
| Pr(CON=0) | .7179374 | .0042476 | .7098339 | .7266971 |
| Pr(CON=1) | .2820626 | .0042476 | .2733029 | .2901661 |

```
25 . setx immigrant 0

26 . simqi
```

| Quantity of Interest | Mean | Std. Err. | [95% Conf. Interval] | |
|---|---|---|---|---|
| Pr(CON=0) | .7265192 | .0045074 | .7176793 | .7352251 |
| Pr(CON=1) | .2734808 | .0045074 | .2647749 | .2823208 |

```
27 . setx immigrant 1

28 . simqi

        Quantity of Interest |      Mean      Std. Err.     [95% Conf. Interval]
    -------------------------+------------------------------------------------
                   Pr(CON=0) |   .6588932      .0121404       .63405     .6818036
                   Pr(CON=1) |   .3411068      .0121404      .3181964      .36595

29 .
30 . **effect is approximately 7 percentage points
31 .
32 .
33 . log close
        name:  <unnamed>
         log:  /Users/peterjohnloewen/Dropbox/local-parliament/Columns/niqab.smcl
    log type:  smcl
   closed on:   9 Oct 2015, 15:55:02
    ─────────────────────────────────────────────────────────────────────────
```

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