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# **Sampling and weighting process**

In the sampling design phase, we stratified the sample by gender, region and age based on actual distributions in the population. We then apply post-stratification weighting to help correct for any remaining bias. Second, we validated the results of our survey against the 2019 Canadian Election Study (a probability based-sample) on political interest, left-right self-placement and party identification (see table 1 below for a comparison). On all three measures our measures of central tendency were reasonably close to that of the probability-based sample. While we used an ordinal categorization of political interest (ranging from very disinterested to very interested) and the CES uses a 0 to 10 scale, both responses could be interpreted as corresponding to somewhat interested. Left-right self-placement is within .5 of a point of the 0 to scale (μ 4.9 for the survey sample and μ 5.1 for the CES). The only slight deviation from our sample to the probability-based sample is that our sample had a slight overrepresentation of federal Liberal Party identifiers (a difference of 5 percentage points), Conservative Party identifiers (a difference of 3 percentage points) and Green Party identifiers (a difference of 2.2 percentage points). Our sample featured NDP and Bloc identifiers in roughly the same proportion ot the CES. The major difference between the samples on party identification is the greater number of “Don’t knows” and non-identifiers in the CES. Samples were also similar in measures of income with both household income categories falling in similar ranges. Our sample featured fewer individuals who identified as female when compared with the CES; however, our sample was stratified at the outset to ensure this.

# **Table 1. Sample Distributions Compared with Canada Election Study[[1]](#footnote-1)**

|  |  |  |
| --- | --- | --- |
|  | Survey Sample (2019) | Canada Election Study Online Panel (2019) |
| Political Interest  4 point scale (survey) (η) / 0 to 10 scale (CES) (μ) | Somewhat Interested (2) | 6.5 |
| Left-right Self-Placement (μ) | 4.88 (.21) | 5.09 (.02) |
| LPC Federal Party Identification (%) | 37% | 32% |
| CPC Federal Party Identification (%) | 29% | 26% |
| NDP Federal Party Identification (%) | 13% | 13% |
| BQ Federal Party Identification (%) | 4.2% | 4.6% |
| Green Federal Party Identification (%) | 7.5% | 5.3% |
| Household Income Category (η) | $30,000- $90,000 | $60,000- $90,000 |
| Identifies Female (%) | 51% | 58% |

**Table 2 : Drivers of Numerical Overestimation by Immigration Category[[2]](#footnote-2)**

|  | **Immigration overestimation**  **b/se** | **Refugee overestimation**  **b/se** | **Asylum-seeker overestimation**  **b/se** |
| --- | --- | --- | --- |
| Left-Right Self Placement | 0.104\*\* | 0.081\* | 0.028 |
|  | (0.035) | (0.037) | (0.033) |
| Media Usage | 0.010 | 0.044 | 0.047 |
|  | (0.037) | (0.039) | (0.037) |
| Print Media | -0.138 | -0.195 | -0.139 |
|  | (0.185) | (0.184) | (0.177) |
| Tabloid Media | 0.675\*\* | 0.639\* | 0.456 |
|  | (0.255) | (0.313) | (0.267) |
| Social Media | -0.097 | -0.104 | -0.310\* |
|  | (0.136) | (0.140) | (0.133) |
| Cultural threat | 0.181\*\* | 0.180\*\* | 0.335\*\*\* |
|  | (0.067) | (0.067) | (0.065) |
| Border Insecurity | -0.046 | -0.300\*\*\* | -0.157\* |
|  | (0.074) | (0.078) | (0.074) |
| FSA Rate of Immigration | -0.032 | 0.015 | -0.027 |
|  | (0.030) | (0.030) | (0.029) |
| FSA Rate of VM | 0.007 | -0.005 | -0.001 |
|  | (0.005) | (0.005) | (0.005) |
| Female | 0.582\*\*\* | 0.469\*\*\* | 0.606\*\*\* |
|  | (0.136) | (0.137) | (0.131) |
| Age | -0.186\*\*\* | -0.194\*\*\* | -0.158\*\*\* |
|  | (0.043) | (0.043) | (0.041) |
| Income | -0.178\* | -0.204\*\* | -0.197\*\* |
|  | (0.072) | (0.074) | (0.069) |
| Education | -0.080 | -0.196\*\* | -0.184\*\* |
|  | (0.064) | (0.067) | (0.062) |
| Visible Minority | 0.283 | 0.226 | 0.153 |
|  | (0.183) | (0.196) | (0.176) |
| Quebec | -0.280 | -0.307 | 0.160 |
|  | (0.165) | (0.169) | (0.160) |
| Intercept | -0.536 | 2.234\*\*\* | 0.816\* |
|  | (0.411) | (0.429) | (0.389) |
| AIC | 1376.2 | 1308.3 | 1442.4 |
| BIC | 1457.9 | 1390.7 | 1524.4 |
| N | 1104 | 1104 | 1104 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | |

**Table 3: Drivers of Numerical Underestimation for Immigrants[[3]](#footnote-3)**

|  | **Immigration underestimation**  **b/se** |
| --- | --- |
| Left-Right Self Placement | -0.107\*\* |
|  | (0.036) |
| Media Usage | -0.067 |
|  | (0.039) |
| Print Media | 0.266 |
|  | (0.186) |
| Tabloid Media | -0.477 |
|  | (0.300) |
| Social Media | 0.166 |
|  | (0.139) |
| Cultural threat | -0.061 |
|  | (0.068) |
| Border Insecurity | 0.019 |
|  | (0.078) |
| FSA Rate of Immigration | 0.033 |
|  | (0.031) |
| FSA Rate of VM | -0.009 |
|  | (0.006) |
| Female | -0.511\*\*\* |
|  | (0.138) |
| Age | 0.192\*\*\* |
|  | (0.042) |
| Income | 0.115 |
|  | (0.073) |
| Education | 0.067 |
|  | (0.066) |
| Visible Minority | -0.078 |
|  | (0.194) |
| Quebec | 0.391\* |
|  | (0.165) |
| Intercept | -1.000\* |
|  | (0.408) |
| AIC | 1322.0 |
| BIC | 1404.2 |
| N | 1104 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | |

**Table 4: Drivers of Cognitive Representations of Immigration[[4]](#footnote-4)**

|  | **Work**  **b/se** | **Asylum**  **b/se** | **Family reunification**  **b/se** | **Study**  **b/se** | **Don’t know**  **b/se** |
| --- | --- | --- | --- | --- | --- |
| Left-Right Self Placement | 0.058 | -0.005 | -0.031 | 0.038 | -0.086 |
|  | (0.034) | (0.035) | (0.047) | (0.054) | (0.047) |
| Media Usage | 0.084\* | 0.006 | 0.101\* | -0.009 | -0.261\*\*\* |
|  | (0.039) | (0.038) | (0.049) | (0.060) | (0.055) |
| Print Media | -0.166 | 0.214 | -0.316 | 0.219 | -0.059 |
|  | (0.186) | (0.186) | (0.239) | (0.303) | (0.279) |
| Tabloid Media | -0.116 | -0.948\*\* | -0.011 | 0.361 | 0.984\*\* |
|  | (0.264) | (0.333) | (0.357) | (0.358) | (0.374) |
| Social Media | 0.040 | -0.204 | 0.174 | -0.360 | 0.262 |
|  | (0.138) | (0.142) | (0.176) | (0.240) | (0.187) |
| Cultural threat | -0.297\*\*\* | 0.165\* | -0.064 | 0.155 | 0.179 |
|  | (0.066) | (0.069) | (0.091) | (0.119) | (0.094) |
| Border Insecurity | -0.076 | 0.315\*\*\* | -0.009 | -0.535\*\*\* | -0.028 |
|  | (0.078) | (0.077) | (0.103) | (0.145) | (0.107) |
| FSA Rate of Immigration | 0.015 | -0.024 | -0.021 | 0.065 | 0.007 |
|  | (0.029) | (0.033) | (0.038) | (0.049) | (0.043) |
| FSA Rate of VM | -0.001 | 0.000 | 0.008 | -0.008 | -0.001 |
|  | (0.005) | (0.006) | (0.006) | (0.010) | (0.007) |
| Female | -0.313\* | 0.272 | 0.193 | -0.275 | 0.106 |
|  | (0.135) | (0.139) | (0.178) | (0.234) | (0.193) |
| Age | -0.017 | 0.056 | 0.107 | -0.221\*\*\* | -0.077 |
|  | (0.041) | (0.043) | (0.058) | (0.065) | (0.059) |
| Income | 0.093 | -0.081 | 0.009 | -0.011 | -0.022 |
|  | (0.071) | (0.072) | (0.095) | (0.114) | (0.096) |
| Education | 0.125 | 0.042 | -0.058 | -0.010 | -0.222\* |
|  | (0.065) | (0.068) | (0.081) | (0.114) | (0.089) |
| Visible Minority | 0.044 | -0.465\* | 0.508\* | 0.178 | -0.285 |
|  | (0.186) | (0.207) | (0.224) | (0.252) | (0.276) |
| Quebec | 0.148 | -0.248 | -0.443 | 0.298 | 0.327 |
|  | (0.167) | (0.164) | (0.246) | (0.263) | (0.213) |
| Intercept | -0.874\* | -2.052\*\*\* | -2.253\*\*\* | -1.135 | -0.126 |
|  | (0.420) | (0.433) | (0.526) | (0.661) | (0.532) |
| AIC | 1375.9 | 1298.5 | 934.7 | 599.8 | 836.1 |
| BIC | 1457.8 | 1380.7 | 1015.6 | 683.3 | 918.6 |
| N | 1104 | 1104 | 1104 | 1104 | 1104 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | | | |

**Table 5: Impact of Numerical Representations on Preferences for Decreasing Immigration by Category[[5]](#footnote-5)**

|  | **Fewer immigrants**  **b/se** | **Fewer refugees**  **b/se** | **Fewer asylum-seekers**  **b/se** |
| --- | --- | --- | --- |
| Immigration overestimators | 0.219 |  |  |
|  | (0.144) |  |  |
| Refugee overestimators |  | 0.212 |  |
|  |  | (0.150) |  |
| Asylum-seeker overestimators |  |  | -0.033 |
|  |  |  | (0.137) |
| Left-Right Self Placement | 0.141\*\*\* | 0.181\*\*\* | 0.141\*\*\* |
|  | (0.035) | (0.035) | (0.034) |
| Media Usage | -0.008 | 0.029 | 0.023 |
|  | (0.038) | (0.038) | (0.038) |
| Print Media | -0.403\* | -0.451\* | -0.204 |
|  | (0.189) | (0.190) | (0.187) |
| Tabloid Media | -0.037 | 0.110 | 0.260 |
|  | (0.284) | (0.283) | (0.272) |
| Social Media | 0.206 | 0.118 | 0.172 |
|  | (0.138) | (0.142) | (0.140) |
| Border Insecurity | 0.642\*\*\* | 0.734\*\*\* | 0.703\*\*\* |
|  | (0.080) | (0.083) | (0.080) |
| FSA Rate of Immigration | -0.072\* | -0.004 | -0.008 |
|  | (0.032) | (0.030) | (0.030) |
| FSA Rate of VM | 0.001 | -0.001 | -0.008 |
|  | (0.005) | (0.005) | (0.005) |
| Female | 0.261 | 0.130 | -0.065 |
|  | (0.138) | (0.140) | (0.136) |
| Age | 0.068 | 0.074 | 0.108\*\* |
|  | (0.042) | (0.042) | (0.041) |
| Income | -0.013 | -0.014 | 0.072 |
|  | (0.071) | (0.072) | (0.074) |
| Education | -0.273\*\*\* | -0.081 | -0.129\* |
|  | (0.064) | (0.066) | (0.064) |
| Visible Minority | 0.157 | 0.399\* | 0.314 |
|  | (0.187) | (0.187) | (0.190) |
| Quebec | 0.020 | -0.015 | -0.011 |
|  | (0.167) | (0.172) | (0.169) |
| Intercept | -1.840\*\*\* | -3.464\*\*\* | -2.853\*\*\* |
|  | (0.391) | (0.439) | (0.418) |
| AIC | 1342.0 | 1317.6 | 1349.6 |
| BIC | 1424.1 | 1399.9 | 1431.7 |
| N | 1102 | 1101 | 1104 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | |

**Table 6: Impact of Numerical Estimations on Latent Immigration Preferences[[6]](#footnote-6)**

|  | **Lower immigration from Muslim majority countries**  **b/se** | **Refugees receive more than pensioners**  **b/se** | **Canada too friendly to migrants without a visa**  **b/se** |
| --- | --- | --- | --- |
| Immigration overestimators | 0.375\*\* |  |  |
|  | (0.139) |  |  |
| Refugee overestimators |  | 0.410\*\* |  |
|  |  | (0.141) |  |
| Asylum-seeker overestimators |  |  | 0.441\*\* |
|  |  |  | (0.138) |
| Left-Right Self Placement | 0.209\*\*\* | 0.152\*\*\* | 0.235\*\*\* |
|  | (0.033) | (0.033) | (0.035) |
| Media Usage | 0.033 | 0.128\*\*\* | 0.124\*\* |
|  | (0.037) | (0.037) | (0.038) |
| Print Media | -0.122 | 0.006 | -0.283 |
|  | (0.178) | (0.186) | (0.190) |
| Tabloid Media | 0.433 | 0.130 | 0.089 |
|  | (0.277) | (0.277) | (0.285) |
| Social Media | -0.092 | -0.103 | -0.143 |
|  | (0.133) | (0.133) | (0.138) |
| Border Insecurity | 0.388\*\*\* | 0.349\*\*\* | 0.544\*\*\* |
|  | (0.076) | (0.076) | (0.082) |
| FSA Rate of Immigration | -0.002 | -0.008 | 0.016 |
|  | (0.029) | (0.028) | (0.029) |
| FSA Rate of VM | 0.002 | 0.001 | 0.001 |
|  | (0.005) | (0.005) | (0.005) |
| Female | -0.087 | 0.020 | 0.106 |
|  | (0.131) | (0.132) | (0.137) |
| Age | 0.051 | 0.117\*\* | 0.067 |
|  | (0.041) | (0.041) | (0.043) |
| Income | -0.052 | -0.076 | 0.024 |
|  | (0.069) | (0.070) | (0.075) |
| Education | -0.108 | -0.069 | -0.044 |
|  | (0.062) | (0.062) | (0.064) |
| Visible Minority | 0.348 | 0.219 | 0.334 |
|  | (0.184) | (0.184) | (0.196) |
| Quebec | 0.140 | -0.066 | -0.088 |
|  | (0.160) | (0.158) | (0.164) |
| Intercept | -1.981\*\*\* | -3.464\*\*\* | -2.853\*\*\* |
|  | (0.394) | (0.439) | (0.418) |
| AIC | 1435.1 | 1408.4 | 1341.6 |
| BIC | 1516.7 | 1490.6 | 1423.3 |
| N | 1099 | 1094 | 1097 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | |

**Table 7: Impact of Images on Preference for Decreasing Immigration by Category[[7]](#footnote-7)**

|  | **Fewer immigrants**  **b/se** | **Fewer refugees**  **b/se** | **Fewer asylum-seekers**  **b/se** |
| --- | --- | --- | --- |
| Asylum | 0.887\*\*\* | 0.411\*\* | 0.316\* |
|  | (0.160) | (0.159) | (0.154) |
| Family Reunification | 0.364 | -0.124 | 0.261 |
|  | (0.200) | (0.202) | (0.200) |
| Study | 0.560\* | 0.318 | 0.240 |
|  | (0.264) | (0.267) | (0.272) |
| Left-Right Self Placement | 0.146\*\*\* | 0.183\*\*\* | 0.141\*\*\* |
|  | (0.036) | (0.035) | (0.034) |
| Media Usage | -0.011 | 0.034 | 0.021 |
|  | (0.038) | (0.038) | (0.038) |
| Print Media | -0.464\* | -0.500\*\* | -0.217 |
|  | (0.191) | (0.191) | (0.187) |
| Tabloid Media | 0.119 | 0.185 | 0.292 |
|  | (0.285) | (0.279) | (0.272) |
| Social Media | 0.255 | 0.142 | 0.189 |
|  | (0.141) | (0.142) | (0.140) |
| Border Insecurity | 0.614\*\*\* | 0.708\*\*\* | 0.692\*\*\* |
|  | (0.080) | (0.082) | (0.081) |
| FSA Rate of Immigration | -0.072\* | -0.004 | -0.006 |
|  | (0.033) | (0.030) | (0.030) |
| FSA Rate of VM | 0.001 | -0.001 | -0.008 |
|  | (0.005) | (0.005) | (0.005) |
| Female | 0.240 | 0.137 | -0.091 |
|  | (0.140) | (0.139) | (0.137) |
| Age | 0.052 | 0.067 | 0.105\* |
|  | (0.042) | (0.042) | (0.041) |
| Income | -0.006 | -0.016 | 0.079 |
|  | (0.072) | (0.072) | (0.074) |
| Education | -0.285\*\*\* | -0.091 | -0.128\* |
|  | (0.066) | (0.066) | (0.064) |
| Visible Minority | 0.214 | 0.444\* | 0.313 |
|  | (0.189) | (0.188) | (0.191) |
| Quebec | 0.049 | -0.025 | 0.005 |
|  | (0.170) | (0.173) | (0.171) |
| Intercept | -2.024\*\*\* | -3.371\*\*\* | -2.994\*\*\* |
|  | (0.405) | (0.426) | (0.409) |
| AIC | 1316.4 | 1314.0 | 1349.1 |
| BIC | 1408.5 | 1406.3 | 1441.0 |
| N | 1102 | 1101 | 1104 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | |

**Table 8: Impact of Images on Latent Immigration Preferences[[8]](#footnote-8)**

|  | **Limit immigration  from Muslim majority countries**  **b/se** | **Refugees receive more  than pensioners**  **b/se** | **Canada too friendly   to migrants without a visa**  **b/se** |
| --- | --- | --- | --- |
| Asylum | 0.600\*\*\* | 0.346\* | 0.436\*\* |
|  | (0.152) | (0.154) | (0.158) |
| Family Reunification | 0.871\*\*\* | 0.420 | 0.591\* |
|  | (0.248) | (0.254) | (0.264) |
| Study | 0.173 | 0.347 | 0.332 |
|  | (0.197) | (0.195) | (0.201) |
| Left-Right Self Placement | 0.218\*\*\* | 0.159\*\*\* | 0.241\*\*\* |
|  | (0.033) | (0.033) | (0.035) |
| Media Usage | 0.032 | 0.126\*\*\* | 0.122\*\* |
|  | (0.037) | (0.038) | (0.038) |
| Print Media | -0.183 | -0.025 | -0.314 |
|  | (0.179) | (0.187) | (0.190) |
| Tabloid Media | 0.544\* | 0.203 | 0.177 |
|  | (0.272) | (0.274) | (0.285) |
| Social Media | -0.064 | -0.099 | -0.153 |
|  | (0.134) | (0.134) | (0.138) |
| Border Insecurity | 0.380\*\*\* | 0.320\*\*\* | 0.529\*\*\* |
|  | (0.078) | (0.077) | (0.082) |
| FSA Rate of Immigration | -0.006 | -0.007 | 0.012 |
|  | (0.030) | (0.028) | (0.029) |
| FSA Rate of VM | 0.003 | 0.001 | 0.001 |
|  | (0.005) | (0.005) | (0.005) |
| Female | -0.064 | 0.037 | 0.144 |
|  | (0.132) | (0.133) | (0.137) |
| Age | 0.040 | 0.097\* | 0.049 |
|  | (0.041) | (0.041) | (0.043) |
| Income | -0.056 | -0.086 | 0.011 |
|  | (0.070) | (0.070) | (0.075) |
| Education | -0.116 | -0.085 | -0.064 |
|  | (0.062) | (0.063) | (0.064) |
| Visible Minority | 0.396\* | 0.233 | 0.354 |
|  | (0.184) | (0.184) | (0.195) |
| Quebec | 0.129 | -0.071 | -0.047 |
|  | (0.161) | (0.159) | (0.165) |
| Intercept | -2.103\*\*\* | -1.746\*\*\* | -2.686\*\*\* |
|  | (0.400) | (0.396) | (0.437) |
| AIC | 1422.9 | 1413.1 | 1344.6 |
| BIC | 1514.5 | 1505.0 | 1436.2 |
| N | 1099 | 1094 | 1098 |
| \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001 | | | |

1. Both sets of data are unweighted [↑](#footnote-ref-1)
2. Weighted data [↑](#footnote-ref-2)
3. Weighted data [↑](#footnote-ref-3)
4. Weighted data [↑](#footnote-ref-4)
5. Weighted data [↑](#footnote-ref-5)
6. Weighted data [↑](#footnote-ref-6)
7. Weighted data [↑](#footnote-ref-7)
8. Weighted data [↑](#footnote-ref-8)