Using Bayesian Analysis to Predict Election Results

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Abstract

This paper introduces a method to predict election results in a given constituency from partial ballots counts data, such as that available during an election night, the goal being to reproduce the predictions made by large news agencies. The model built throughout this paper is based upon the ideas of Bayesian analysis, and is compared against real-world data cumulated from the 2019 and 2021 Canadian federal elections, as well as two provincial elections from 2022.

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1. Building the Model

As with any mathematical problem, a considerable portion of building the model is simply to lay down the assumptions and to split the task into multiple, more specific, problems. To approach this using the tools of conditional probability, understanding why predicting election results even involves random events is a must. The fundamental assumption needed here, from which all of the mathematics will follow, is that each individual casting its vote can be considered an independent random event were the different possibilities are the different candidates in the constituency, with each candidate having a different probability of receiving a vote.

Essentially, the probability that a voter will vote for a given candidate is the final proportion of votes that this candidate will have received in the final results. Furthermore, each vote would be independent of the other ones, because election results are not shown until every polling booth is closed.¹

However, before going any further, the basics of the electoral system of interest shall be outlined. The model will be based on the "first-past-the-post" election system used in provincial and federal elections in Canada. The Canadian electoral systems generally work in the following way:

- 1. The territory is divided in smaller districts of similar size in terms of population called *constituencies*.
- 2. During the elections, electors can go cast a vote for their single favourite candidate in their constituency. Each vote will go in a *box*. Each constituency has multiple boxes of an approximately fixed number of votes.
- 3. Once all the votes have been gathered, the counts start to be released. This phase can take multiple hours, due to the long process of counting every vote.
- 4. The results are released box by box.

Then, a few variables need to be defined. Let n be the number of candidates in the constituency.

Let $v = \{v_1, v_2, v_3, \dots, v_n\}$ be the set of the current vote counts for the different candidates, ordered from largest to smallest, where v_1 is the number of votes for candidate 1, v_2 is the number of votes for candidate 2, etc. And let $v_t = \sum_{i=1}^n v_i$ be the total number of votes.

Also, let b_c be the number of ballot boxes counted and b_t be the total number of ballot boxes.

The number of votes left to be counted will also be relevant (if only a few votes are left to be counted, the probability of the lead candidate being elected will be much higher), but it is not a number known in advance. However, it can be approximated by assuming that the number of votes per ballot box is roughly constant. Therefore, let $v_e = \frac{b_t}{b_c} v_t$ be the expected end total number of votes, and let $v_l = v_e - v_t$ be the expected number of votes left to count.

In general, when discussing a certain candidate, it will be referred to as the kth-candidate. For example, the candidate k is considered to currently have v_k votes.

Working with conditional probability, beliefs about the probability each candidate has to win will be most often represented by probability distributions. This idea will be detailed below, notably in Section 1.1.

In this paper, the first goal will be to represent the likelihood of observing the current evidence (the current number of votes) as a function (Section 1.3) and to represent the prior beliefs (what is thought before observing any data about the chances that each candidate has to win) as a probability distribution (Section 1.4). It will then be possible to combine those two pieces of information through the use of Bayes' theorem, which will give a probability distribution representing the probability that a certain candidate will have a certain share of the final votes, assuming the election contains infinitely many votes (Section 1.5). Finally, using this and the number of votes left to be counted, it will be possible to generate a probability distribution representing the expected final number of votes for a given candidate (Section 1.7). This

¹For federal elections, due to the large timezone differences, the results of some of the Eastern provinces are compiled before polls close in some of the Western provinces. However, there is, overall, very little overlap.

will give all the information required to compute the probability that each of the candidates has to win over the others.

Therefore, let $D = \{D_1, D_2, D_3, \dots, D_n\}$ be the list of the unknown probability distributions representing the probability that a certain candidate will have a certain share of the votes, where D_1 is the probability distribution for the candidate 1, D_2 for the candidate 2, etc.

Finally, $E = \{E_1, E_2, E_3, \dots, E_n\}$ will represent the list of probability distributions for the final expected number of votes, where E_1 is the distribution for the candidate 1, E_2 for the candidate 2, etc.

Although the sets D and E may look quite cryptic for now, their meaning and utility will become much clearer through the rest of this paper.

Due to the usefulness of specific, visual examples when trying to investigate probability questions, the following variables will be used as a simple and concrete example throughout this paper:

$$n = 5$$

$$v = \{60, 50, 36, 34, 20\}$$

$$v_t = 60 + 50 + 36 + 34 + 20 = 200$$

$$b_c = 10$$

$$b_t = 16$$

$$v_e = \frac{16}{10}(200) = 320$$

$$v_l = 320 - 200 = 120$$

This is a hypothetical five-candidate election (n), where the leading candidate currently has 60 votes (v_1) . Out of the 16 boxes in the constituency (b_t) , 10 have been opened (b_c) , which allows to predict that there will be around 320 votes in the end (v_e) , based on the 200 currently counted votes (v_t) .

Although this set of data will be used for numerical and graphical example, this paper will not focus on the computation of specific numerical examples, as the endgoal is to have a generalized computer model. Furthermore, due to their nature, many of the computations discussed here have no analytical solutions, thus computer based approximations will be used.

1.1. Probability of probabilities

A recurrent theme in this paper will be the idea of *probability of probabilities*, an idea which is at the root of many advanced concepts in conditional probability. Below is an example exploring this concept.

Considering a biased coin whose mathematical weight (bias) is unknown, after observing 90 heads and 10 tails out of 100 trials, what should one expect the bias to be?

One might argue that the answer is trivial: to find the weight, divide the number of observed heads (or tails) by the number of throws. This goes with the idea of the *Law of large numbers* [25], that the more trials there are, the more the observed frequency will approach the theoretical (the real) probability.

However, this reasoning is flawed. Yes, $\frac{90}{100} = 0.9$ is the most likely probability, but it is possible that the *true* probability is 0.1, 0.99 or any other value between 0 and 1, exclusively. An event being unlikely does not mean it is impossible.

The better approach is therefore to use probability distributions: instead of trying to define the weight of the coin with a single number, it can be defined as a probability distribution that represents how likely each of the infinitely many possible values of the bias are. That probability distribution would most likely be a beta distribution, which is explored below.

1.2. Beta Distribution

Two reasons make the beta distribution ideal for representing probability of probabilities: its domain is [0,1] and the area under a beta distribution's Probability Density Function (PDF) over its range, as with any valid probability distribution, is 1. This means that any value on the x-axis represents a possible probability and that the y-value of the distribution at that point represents the probability density that this probability is the true one.

Furthermore, the beta distribution can take a variety of shapes, as its PDF is, most commonly, defined in terms of two shape parameters, α and β , both being positive non-null real numbers. Let X be a distribution $X \sim \text{Be}(\alpha, \beta)$, where Be is the beta distribution: notably that a Be(1, 1) distribution is equivalent to

$$P(X = x) = \frac{x^{\alpha - 1}(1 - x)^{\beta - 1}}{\mathcal{B}(\alpha, \beta)}, x \in [0, 1]$$

In the definition of the PDF of the beta distribution, \mathcal{B} is the beta function [20]. Dividing by the beta function has the effect of scaling the numerator in order to make the area under the beta distribution's PDF equal to 1. It is therefore equal to the integral of the numerator:

$$\mathcal{B} = \int_0^1 x^{\alpha - 1} (1 - x)^{\beta - 1} \,\mathrm{d}x$$

However, it is more commonly defined as follows, where Γ is the gamma function [21]:

$$\mathcal{B}(\alpha,\beta) = \frac{\Gamma(\alpha)\Gamma(\beta)}{\Gamma(\alpha+\beta)}$$

This distribution would have a mean of [20]:

$$E(X) = \mu_X = \frac{\alpha}{\alpha + \beta}$$

Finally, the gamma function can be viewed as an expansion of the factorials to the reals (except for integers smaller or equal to 0) while respecting the following identity [23], n being a positive integer²:

$$\Gamma(n) = (n-1)!$$

The beta distribution will be referred to as $Be(\alpha, \beta)$ throughout this paper. Here are a few beta distributions plotted, demonstrating some of the various shapes it can take:

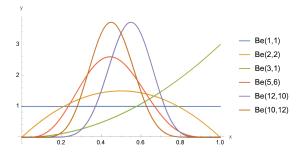


Figure 1: A few beta distributions

In Figure 1, multiple interesting things can be seen,

notably that a Be(1, 1) distribution is equivalent to a Uniform(0, 1) distribution $[27]^3$ and that the beta distribution can be both symmetric and highly asymmetric about the average.

Finally, the Cumulative Distribution Function [17] (CDF) of a beta distribution is the regularized beta function [26], notated $\mathcal{I}(z; a, b)$, which is in itself expressed in terms of the incomplete beta function [24], notated $\mathcal{B}(z; a, b)$.⁴

$$P(A \le z) = \mathcal{I}(z; \alpha, \beta) = \frac{\mathcal{B}(z; \alpha, \beta)}{\mathcal{B}(\alpha, \beta)}$$

1.3. Building the Likelihood Function

The first step is to figure out the probability distribution representing the share of votes each candidate has.

Seeing this from the perspective of each of the candidates, it can be considered that the number of votes received over the total number of votes is a binomial experiment, where a *success* is defined as a vote for that candidate, and a *failure* as a vote given to any other. As a reminder, the Probability Mass Function [10] (PMF), the discrete analogue of the PDF [10], for a binomial distribution $Y, Y \sim B(m, p)^5$, would be the following, where p is the probability of the event happening and m is the total number of trials:

$$P(Y = x) = \binom{m}{x} p^x (1-p)^{m-x}, x \in \{0, 1, 2, \dots, m\}$$

In the case of this paper, both the number of successful trials, v_k (the current number of votes for the candidate) and the total number of trials, v_t (the current total number of votes) are known. This means that, for the candidate k, with the number of votes v_k , the unknown left is the probability, here p, of receiving a vote distributed from the unknown distribution D_k , D_k being the distribution representing the probability that the candidate will receive the next

²A more detailed explanation of the gamma function has been deemed outside of the scope of this investigation.

³A uniform distribution is a distribution where all values in a given interval (in this case, [0, 1]) are equally likely.

⁴A deeper exploration of the regularized and incomplete beta functions not being relevant to the rest of the mathematics, they will not be explained in greater details in this paper.

⁵Here, m is used instead of the typical n in order to avoid confusion with the number of candidates in the constituency.

vote. The above equation can therefore be rewritten as $V_k \sim B(v_t, p)$.

$$P(V_k = v_k \mid D_k = p) = {\binom{v_t}{v_k}} p^{v_k} (1-p)^{v_t - v_k}$$

However, as the distribution V_k is not really important, it could also be represented as

$$P(v_k \mid D_k = p) = \binom{v_t}{v_k} p^{v_k} (1-p)^{v_t - v_t}$$

This answers the question: What is the probability of observing the evidence v_k given that $D_k = p$?

As what is really of interest is the unknown distribution D_k , let $L_{D_k}(p)$ represent its likelihood function [19], which will answer the question: Based solely on the evidence, how likely is it that a certain value of the probability p is the true probability that led to the observed events?

$$L_{D_k}(p) = P(v_k \mid D_k = p)$$
$$= {v_t \choose v_k} p^{v_k} (1-p)^{v_t - v_k}$$

Here is the plot of this function for the leading candidate (k = 1) in the above example, considering it currently has $v_k = v_1 = 60$ votes and that the total number of votes is currently $v_t = 200$:

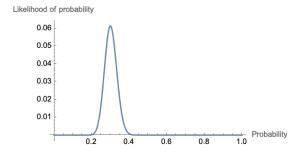


Figure 2: Plot of the likelihood function for the leading candidate

Referring back to Section 1.1, this is an example of a probability distribution representing an unknown probability. One should, however, still expect the mode of the distribution (the maximum of the likelihood function) to be the simple frequency calculation $\frac{v_1}{v_t} = \frac{60}{200} = 0.3$, which can be verified in Figure 2.

However, a key element is still missing before it can be said that this function represents the probability distribution of the share of the votes a given candidate has, as the prior beliefs [19] are yet to be considered.

1.4. Building Prior Beliefs

Prior beliefs, as the name implies, is what is believed to be the probability distribution before seeing any evidence (the partial election results, in this context). It is expressed in the form of a probability distribution. In the context of elections, there are two ways to approach this: prior ignorance and substantial prior knowledge [7].

Prior ignorance is quite trivial: it is assumed that nothing is known before the election. Therefore, a distribution illustrating that all probabilities are considered to be equally likely is needed. This is the perfect use for the uniform distribution, so it could be said that the prior beliefs about the probability distribution of the share of the votes of a given candidate (D_k) follows a Uniform(0, 1) distribution, also known as a Be(1, 1) distribution.

Substantial prior knowledge unfortunately is not as simple. Commonly, it is considered to be "[when] expert opinion, for example, gives us good reason to believe that some values in a permissible range for [p] are more likely to occur than others". [6] In this context, expert opinions could be the polls from firms like LÉGER, who usually publish their predictions a few weeks before any major election. An example of such a report could be LÉGER'S ÉLECTIONS PROVIN-CIALES : MONTRÉAL ET LAVAL [8], which contains two key pieces of information:

- The voting intentions (what percentage of people plan to vote for each of the parties).
- The firmness of the intentions (for each party, what percentage of people do not expect to change their minds).

For example, suppose it was known from a report that 35% of the citizens intended to vote for a given party, and that 45% of those people are quite firm about their decision, how could this be transformed into a probability distribution? For the reasons outlined in Section 1.2, it seems reasonable to try building a beta distribution. Therefore, let $U, U \sim \text{Be}(\alpha, \beta)$, be the prior beliefs distribution about the candidate's probability of receiving a vote.

First, the expected value (the mean) of the distribution is known to be 35% (0.35). Then, "quite firm" could be defined as being at $\pm 5\%$ of the mean. The probability of landing in that range must therefore be equal to 45% (0.45). This is equivalent to stating that the area under the PDF of the distribution in the range [0.30, 0.40] should be equal to 0.45. Here is a system of equation combining both of these facts:

$$0.35 = E(U)$$

$$= \mu_U$$

$$= \frac{\alpha}{\alpha + \beta}$$
And
$$0.45 = \int_{0.30}^{0.40} P(U = x) dx$$

$$= \int_{0.30}^{0.40} \frac{x^{\alpha - 1}(1 - x)^{\beta - 1}}{\mathcal{B}(\alpha, \beta)} dx$$

(

To satisfy the requirements of the beta function, both α and β need to be non-null positive reals. As there is no trivial analytical solution to this system of equations, the simplest solution is to resort to numerical approximation to solve for α and β . It is to be noted that this system of equations may not always yield a solution when considering extreme requirements, like having a exceedingly small margin around the mean for the definition of "quite firm". This, however, is not really an issue as these cases would lead to such intense certain prior beliefs that any evidence would hardly be relevant.

Using WOLFRAM MATHEMATICA [29] or similar software, the solution to this system can be computed to be $\alpha \approx 11.485$ and $\beta \approx 21.330$. This yields the following probability distribution as the prior beliefs:

It is important to keep in mind that this process is quite subjective. In fact, it was here chosen to define "quite firm" as being $\pm 5\%$ of the mean, but it could have chosen to be $\pm 7\%$, $\pm 3\%$, or any other value. This is the main weakness of this process: biases can easily sneak into the statistics if one is not careful.

As the prior beliefs can be represented as a beta

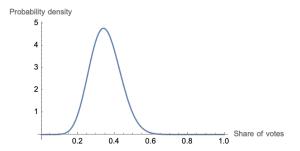


Figure 3: Plot of the probability distribution built from prior knowledge

distribution both in the case of prior ignorance and of prior substantial knowledge, it makes sense to define the prior beliefs for the candidate k as $D_k \sim \text{Be}(a_k, b_k)$ before seeing any of the evidence. For the rest of this paper, all of the prior knowledge about the candidate kwill be referred to with the variables a_k and b_k shaping this distribution. The PDF of D_k could therefore be written as

$$P(D_k = p) = \frac{p^{a_k - 1}(1 - p)^{b_k - 1}}{\mathcal{B}(a_k, b_k)}$$

1.5. Combining Prior Beliefs and Likelihood

Now that the prior beliefs and the likelihood function are both formulated, it is time to combine them into the probability distribution for the candidate's share of the total votes.

This is where Bayes' theorem comes in. In fact, this theorem gives a systematic method to mix prior beliefs and observed evidence (summarized into the likelihood function) into posterior beliefs. As a reminder, here is the formula for said theorem [18], where A and B are independent random events

$$P(A \mid B) = \frac{P(B \mid A)P(A)}{P(B)}$$

- $P(A \mid B)$ This represents the *posterior beliefs* about A, considering that B was observed.
- $P(B \mid A)$ This represents the *likelihood* that A happens given the observed evidence for B.
- P(A) This represents the prior beliefs about A.
- P(B) This represents the total probability of B. Essentially, this has the effect of scaling the proba-

In the case of probability distributions, this ensures that the area under the distribution's curve equals 1 [5].

It is also interesting to note that $P(B \mid A)$ and P(A)can not only be probabilities, but also probability distributions, making $P(A \mid B)$ into one too.

As P(B) is simply a scaling constant, the formula can be rewritten as

$$P(A \mid B) \propto P(B \mid A)P(A)$$

Which is also commonly known as the fact that [5]:

posterior beliefs \propto likelihood \times prior beliefs

The beauty of this lies in how clearly it highlights how evidence (likelihood) does not *replace* prior beliefs, but rather *updates* them to form posterior beliefs [15].

Going back to the context of elections, this statement could be rewritten as such:

$$P(D_k = p \mid v_k) \propto P(v_k \mid D_k = p)P(D_k = p)$$

 $P(D_k = p \mid v_k)$ This is the target probability distribution D_k (as a function of p).

 $P(v_k \mid D_k = p)$ This is the likelihood function that was derived earlier, $L_{D_k}(p)$.

 $P(D_k = p)$ This is the prior beliefs distribution that was derived earlier.

Substituting in allows to compute an expression proportional to $P(D_k = p \mid v_k)$.

$$P(D_k = p \mid v_k) \propto P(v_k \mid D_k = p)P(D_k = p)$$

$$\propto \left(\binom{v_t}{v_k} p^{v_k} (1-p)^{v_t-v_k} \right)$$

$$\left(\frac{p^{a_k-1}(1-p)^{b_k-1}}{\mathcal{B}(a_k,b_k)} \right)$$

$$\propto \left(p^{v_k} (1-p)^{v_t-v_k} \right)$$

$$\left(p^{a_k-1}(1-p)^{b_k-1} \right)$$

$$\propto p^{v_k+a_k-1}(1-p)^{v_t-v_k+b_k-1}$$

There are three things to notice and recall here: (I) As this distribution represents possible values of a probability p, its domain is [0, 1]. (II) As with any

bility of A|B such that it lands between 0 and 1. other continuous probability distribution, its area over its range (here, [0, 1]) must be equal to 1. (III) The beta distribution matches both the form of the obtained equation and the above two criteria.

> Finding the beta distribution corresponding to the above equation is simply a question of identifying the values of its shape parameters. In a beta distribution $Be(\alpha, \beta)$ whose PDF is expressed as a function of x, x is raised to the power of $\alpha - 1$ and 1 - x is raised to the power of $\beta - 1$. Applying this to the above equation, where the distribution's PDF is expressed as a function of p, yields the following coefficients and, therefore, the following distribution:

$$\alpha - 1 = v_k + a_k - 1$$

$$\alpha = v_k + a_k$$
And
$$\beta - 1 = v_t - v_k + b_k - 1$$

$$\beta = v_t - v_k + b_k$$
Therefore

$$D_k \mid v_k \sim \operatorname{Be}(v_k + a_k, v_t - v_k + b_k)$$

Sadly, as detailed polls for elections dating back multiple years are not trivial to find, prior ignorance will have to be assumed when evaluating the model against real-world data. Remembering that prior ignorance can be represented as a Be(1,1) distribution, both a_k and b_k would be equal to 1 in this scenario. The following expression therefore represents the posterior beliefs when one lacks substantial prior knowledge.

$$D_k \mid v_k \sim \operatorname{Be}(v_k + 1, v_t - v_k + 1)$$

As a reminder, D_k is the distribution representing the probability that the candidate k will receive the next vote, which is equivalent to the share of votes it would get if the election was to run infinitely.

For the sake of visual understanding, here are the computed probability distributions for each of the candidates in the example.

It is interesting to note that both the prior and pos-

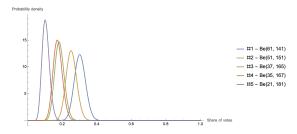


Figure 4: The set of distributions D

terior beliefs are beta distribution when the likelihood function comes from a binomial distribution; thus the beta distribution is a conjugate prior for the binomial distribution [9].

1.6. Comparing Probability Distributions

In Figure 4, it can be seen that, just as one would expect, the more votes a candidate currently has, the more likely it is to have a larger share of the votes. For example, the candidate with the most votes, candidate #1, is associated with the rightmost distribution, while the candidate with the least votes, candidate #5, is associated with the leftmost distribution.

However, this is not the same as the probability that each candidate has to win. For now, it will be assumed that elections are infinite and that winning means having the greatest share of votes in the long run.⁶

This would mean that a candidate's probability of winning is the probability that its probability distribution for the share of votes (D_k) is "bigger" than all the other candidates' distributions. But how exactly could "bigger" be quantified? For the following steps, visual examples will be crucial, thus the leading candidate will be used as an example.

First, consider the probability that a candidate k will have less than a certain share r of the votes, $P(D_k \leq r)^7$. Plotting this for all candidates excluding the leading one yields Figure 5.

Since all of the distributions originate from independent events, the probability that all these four distributions will be smaller than r can be found by

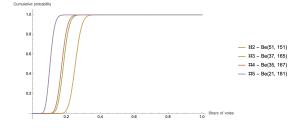


Figure 5: The CDFs of the distributions D for all but the leading candidate

merely multiplying them together. Plotting this leads to Figure 6.

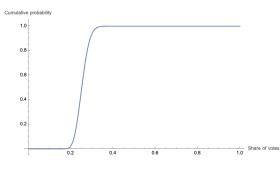


Figure 6: The product of the CDFs of the distributions D for all but the leading candidate

From the distribution of the leading candidate, D_1 , the probability that it will have some share r of the votes is known. Therefore, considering the independence of the events, the probability that all other candidates will have a share of the votes smaller than r (as shown in Figure 6), and that the leading candidate will have that share of the votes (D_1 's PDF evaluated at r) can be found by simple multiplication.

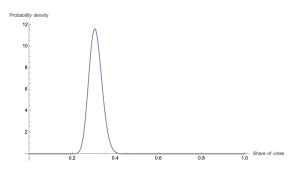


Figure 7: Probability that the leading candidate at any given share of the votes

Finally, the total probability that the leading candidate will have a larger share of votes than all the other candidates can be obtained by calculating the

⁶This assumption will be revisited in Section 1.7.

⁷When working with continuous distributions, $P(D_k \leq r)$ is equivalent to $P(D_k < r)$.

area under this curve over the course of its domain. limited. This would indicate that the leading candidate has a probability of approximately 0.86658 of winning. Performing the calculations for all the candidates yields approximately the following results: (1) 0.86658(2) 0.13183 (3) 0.00012 (4) 0.00004 (5) 0.00000.

A straightforward verification that can be performed to ensure the mathematical reasoning was not blatantly incorrect is to add the above numbers and verify they sum to 1, as it is known that a candidate will be elected (the probability of any candidate being elected is the sum of the probability of each candidate to be elected), which they do.⁸ In other words, the probability that a candidate will win is mutually exclusive and complementary to the probability that any of the other candidates will.

These steps can be summarized in a more general form, assuming the search for the probability that a candidate k will win. First, the probability that all other candidates would have a share smaller than rof the votes was multiplied.

$$\prod_{\substack{i=1\\i\neq k}}^n P(D_i \le r)$$

Next, that expression was multiplied by the probability density that the candidate k would have that share r of the votes.

$$P(D_k = r) \prod_{\substack{i=1\\i \neq k}}^n P(D_i \le r)$$

Finally, the area under the curve was computed.

$$\int_{-\infty}^{\infty} P(D_k = r) \prod_{\substack{i=1\\i \neq k}}^{n} P(D_i \le r) \, \mathrm{d}r$$

However, given that D_k is a beta distribution, $P(D_k = r)$ is null for all values outside of the interval [0, 1], thus the bounds of the integral can be

$$\int_0^1 P(D_k = r) \prod_{\substack{i=1\\i \neq k}}^n P(D_i \le r) \,\mathrm{d}r$$

More generally, the following is the formula for calculating the probability that a certain probability distribution X_k will have a greater value than all other distributions in the set X, containing n elements, considering the PDF of the distribution X_k has nonzero values only in the interval [a, b]. This expression was largely inspired from What is $P(X_1 > X_2, X_1 >$ $X_3, \ldots, X_1 > X_n)$? [28]⁹.

$$P\left(\bigcap_{i=1}^{n} X_k \ge X_i\right) = \int_a^b P(X_k = x) \prod_{\substack{j=1\\ j \ne k}}^n P(X_j \le x) \, \mathrm{d}x$$

It is to be noted that there is no analytical solution to the above equations for sets of distributions that contain more than two elements [28]. Therefore, numerical integration will be needed in order to find the probability that a certain candidate will win.

1.7. Considering the Number of Votes Left

Up to this point, it has been assumed that there is some sort of infinite election where a candidate wins if the distribution of their share of the votes in the long run is larger than that of all other candidates. However, in a real-world election, there is a fixed number of votes, a fact which needs to be taken into account to accurately model the situation.

The first thing that needs to be known is the probability that a certain candidate will gain a certain number of votes over the number of votes left, v_l . As one may notice, this looks quite a bit like a binomial experiment: (I) there is a fix number of trials (the number of votes left) (II) there are only two possible states for each trial (success being the candidate gaining a vote and *failure* being another candidate gaining it) (III) each trial has the same probability of having

⁸Adding the numbers displayed here results in finding 1.00001 as the sum instead. This deviation is merely due to the numbers being calculated with more significant figures than displayed here.

 $^{^{9}\}mathrm{Although}$ it originally came from a mathematics discussion forum, I believe I have provided a sufficient justification for this formula.

a specific outcome.

The only problem is that the probability of gaining a vote cannot be formulated directly, but rather elicited as a probability distribution, $D_k | v_k$ (for the candidate k), as shown above. Although this may seem like an issue, it actually is not. What needs to be done is to combine the binomial distribution described above to the probability distribution $D_k | v_k$ into a combined *predictive distribution*. In this case, because a beta distribution and a binomial distribution are being combined, the output distribution will be a beta-binomial distribution [16], notated here BetaBin (α, β, m) , where α and β are the shape parameters of the underlying beta distribution and m is the number of trials¹⁰.

The following demonstration of the combination of both distributions is a more detailed version of the one included in *Bayesian Statistics, Simulation and Software* — *The Beta-Binomial Distribution* [1]. The first step is to find the *simultaneous distribution* of the beta and binomial distributions. This means weighing the binomial distribution, $X \sim B(m, p)$, as a function of the probability p, by the probability that the beta distribution, $Y \sim Be(\alpha, \beta)$, will equal p. This process is extremely similar to what was done when trying to form posterior beliefs from a binomial likelihood and a beta prior.

$$P(X = x \mid Y = p) = P(X = x)P(Y = p)$$
$$= \left(\binom{n}{x} p^{x} (1-p)^{n-x} \right)$$
$$\left(\frac{p^{\alpha-1} (1-p)^{\beta-1}}{\mathcal{B}(\alpha,\beta)} \right)$$
$$= \frac{\binom{n}{x}}{\mathcal{B}(\alpha,\beta)} p^{x+\alpha-1} (1-p)^{n-x+\beta-1}$$

Then, the predictive distribution, the distribution of interest, can be found by integrating the above over the range of p, [0, 1].

$$P(X=x) = \int_0^1 \frac{\binom{n}{x}}{\mathcal{B}(\alpha,\beta)} p^{x+\alpha-1} (1-p)^{n-x+\beta-1} \,\mathrm{d}p$$

$$= \frac{\binom{n}{x}}{\mathcal{B}(\alpha,\beta)} \int_0^1 p^{x+\alpha-1} (1-p)^{n-x+\beta-1} \,\mathrm{d}p$$

One may recognize from Section 1.2 that the leftover integral is the denominator of the PDF of a beta distribution $\text{Be}(x + \alpha, n - x + \beta)$, which can be expressed in terms of the beta function, as follows:

$$P(X = x) = \frac{\binom{n}{x}}{\mathcal{B}(\alpha, \beta)} \int_0^1 p^{x+\alpha-1} (1-p)^{n-x+\beta-1} \, \mathrm{d}p$$
$$= \frac{\binom{n}{x}}{\mathcal{B}(\alpha, \beta)} \mathcal{B}(x+\alpha, n-x+\beta)$$
$$= \binom{n}{x} \frac{\mathcal{B}(x+\alpha, n-x+\beta)}{\mathcal{B}(\alpha, \beta)}$$

Considering this, an expression can now be found for the probability distribution $E_k | v_k$ that the candidate k will receive a certain number of votes over the rest of the counting process, using v_l as the number of trials and the parameters from $D_k | v_k$, the probability distribution for the *k*th-candidate to receive the next vote, for the underlying beta distribution.

$$E_k \mid v_k \sim \text{BetaBin}(v_k + a_k, v_t - v_k + b_k, v_l)$$

Plotting this distribution for each of the candidates gives us Figure 8.

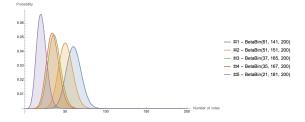


Figure 8: The set of distributions E

Carrying forward, the PDF of the distribution $E_k \mid v_k$ will be notated using functional notation to facilitate the representation of the operations that will be done on it.

$$E_k(x) = \binom{v_l}{x} \frac{\mathcal{B}(x + v_k + a_k, v_l - x + v_t - v_k + b_k)}{\mathcal{B}(v_k + a_k, v_t - v_k + b_k)}$$
$$= \binom{v_l}{x} \frac{\mathcal{B}(x + v_k + a_k, v_e - x - v_k + b_k)}{\mathcal{B}(v_k + a_k, v_t - v_k + b_k)}$$

Comparing these probability distributions, however, would not be the full story. In fact, what needs to be taken into account is not only the number of votes

¹⁰Here, m is used instead of the typical n in order to avoid confusion with the number of candidates in the constituency.

each candidate is expected to get, but also the current number of votes of each candidate. This can be done by translating the above function to the right by the candidate's current number of votes, v_k . The set of the translated distributions will be referred to as E_t and the distribution of the candidate k as E_{tk} .

$$E_{tk}(x) = E_k(x - v_k)$$

$$= {\binom{v_l}{(x - v_k)}} \frac{\binom{\mathcal{B}((x - v_k) + v_k + a_k, v_k)}{v_e - (x - v_k) - v_k + b_k}}{\mathcal{B}(v_k + a_k, v_t - v_k + b_k)}$$

$$= {\binom{v_l}{x - v_k}} \frac{\mathcal{B}(x + a_k, v_e - x + b_k)}{\mathcal{B}(v_k + a_k, v_t - v_k + b_k)}$$

An important fact to keep in mind is that E_k , and therefore E_{tk} , are discrete probability distributions. The problem with this is that discrete probability distributions are much harder to compute than continuous ones. This is because modern computational mathematics engines, like WOLFRAM MATHEMAT-ICA [29] have many more tricks to optimize integrals (used in continuous distributions) than sums (used in discrete distributions). Furthermore, the formula derived in Section 1.6 to compare probability distributions is only built for continuous distributions.

The good news is that the beta-binomial distribution, BetaBin (α, β, n) , can be computed for noninteger values, as all the functions and operations it depends on also are.

First, the choose function has a continuous expansion, which can be expressed as follows [22].

$$\binom{x}{y} = \begin{cases} 0 & y < 0\\ \frac{\Gamma(x+1)}{\Gamma(y+1)\Gamma(x-y+1)} & 0 \le y \le x\\ 0 & x < y \end{cases}$$

Although it is common not to set restrictions on this expression, they keep the function closer to its original meaning, which is useful in this concrete context, as the idea that it is impossible to have fewer than 0 votes or more than the maximum number of votes is still needed.

Second, the beta function is perfectly well defined for both integer and non-integer values, except for nonpositive integers. However, when examining each of the parameters of the beta functions in the expression, one can realize that they will never be nonpositive as long as the number of votes considered is between the current number of votes, v_k , and the maximum number of votes the candidate could get, $v_k + v_l$, keeping in mind that a_k and b_k will always be greater than 0, due to restrictions on the parameters of the beta function.

- $x + a_k \leq 0$ This implies that $x \leq -a_k$, but it makes no sense to consider the probability that a certain candidate will *lose* votes.
- $v_e x + b_k \leq 0$ This implies that $x \geq v_e + b_k$. However, it does not make sense to consider the probability that a candidate will have more votes than are expected in the end for all candidates.
- $v_k + a_k \leq 0$ This implies that $v_k \leq -a_k$, but a candidate will always have a non-negative vote count. $v_t - v_k + b_k \leq 0$ This implies that $v_k \geq v_t + b_k$, but
 - it is not possible for a candidate to have more votes than the total amount.

For impossible number of votes, the most logical thing is to define the function as having a value of 0, to indicate the impossibility of such an event happening.

The continuous version of E_{tk} and the continuous version of the set E_t will be respectively denoted E_{tck} and E_{tc} . This yields the following expression.

$$E_{tck}(x) = \begin{cases} 0 & x < v_k \\ \binom{v_l}{x - v_k} \frac{\mathcal{B}(x + a_k, v_e - x + b_k)}{\mathcal{B}(v_k + a_k, v_t - v_k + b_k)} & v_k \le x \le v_k + v_l \\ 0 & v_k + v_l < x \end{cases}$$

To consider $E_{tk}(x)$ for non-integer values of x, there is one last problem which needs to be fixed. Whereas continuous probability distributions use areas to determine probability, discrete ones use sums. This means that $E_{tck}(x)$ needs to be rescaled to ensure that the area under its PDF in the interval $[v_k, v_k + v_l]$ (the interval on which it is non-zero) is equal to 1. This can be achieved by dividing the function by its integral over that interval. For the sake of clarity, the following demonstration will assume $x \in [v_k, v_k + v_l]$ as it is the only part of the function which will be affected by the rescaling.

$$\begin{split} E_{tck}(x) &= \frac{E_{tk}(x)}{\int_{v_k}^{v_k + vl} E_{tk}(t) \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{x - v_k} \frac{\mathcal{B}(x + a_k, v_e - x + b_k)}{\mathcal{B}(v_k + a_k, v_l - v_k + b_k)}}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \frac{\mathcal{B}(t + a_k, v_e - t + b_k)}{\mathcal{B}(v_k + a_k, v_l - v_k + b_k)} \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{x - v_k} \mathcal{B}(x + a_k, v_e - x + b_k)}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \mathcal{B}(t + a_k, v_e - t + b_k) \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{x - v_k} \mathcal{B}(x + a_k, v_e - x + b_k)}{\binom{v_l}{\sqrt{w_k + vl}} \binom{v_l}{(t - v_k)} \mathcal{B}(t + a_k, v_e - x + b_k)}{\binom{v_k + vl}{\sqrt{w_k + vl}} \binom{v_l}{\sqrt{v_k + vl}} \mathcal{B}(x + a_k, v_e - x + b_k)} \\ &= \frac{\binom{v_l}{x - v_k} \mathcal{B}(x + a_k, v_e - x + b_k)}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \mathcal{B}(t + a_k, v_e - t + b_k) \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{x - v_k} \mathcal{B}(x + a_k) \Gamma(v_e - x + b_k)}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \frac{\Gamma(t + a_k) \Gamma(v_e - x + b_k)}{\Gamma(t + a_k) \Gamma(v_e - x + b_k)} \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{x - v_k} \Gamma(x + a_k) \Gamma(v_e - x + b_k)}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \Gamma(t + a_k) \Gamma(v_e - x + b_k) \, \mathrm{d}t} \\ &= \frac{\binom{v_l}{1} \frac{\Gamma(v_e + a_k + b_k)}{\sqrt{(v_e + a_k + b_k)}}}{\int_{v_k}^{v_k + vl} \binom{v_l}{(t - v_k)} \Gamma(x + a_k) \Gamma(v_e - x + b_k) \, \mathrm{d}t} \end{split}$$

As a reminder, v_k is the number of votes of the candidate k, with a_k and b_k being the parameters of the beta distribution representing the prior beliefs about its share of the votes.

Keeping in mind the domain restrictions on the above expression, the following is the actual function:

$$\begin{aligned} E_{tck}(x) &= \\ \begin{cases} 0 & x < v_k \\ \frac{\binom{v_l}{x^{-v_k}}\Gamma(x+a_k)\Gamma(v_e-x+b_k)}{\int_{v_k}^{v_k+v_l}\binom{v_l}{t-v_k}\Gamma(t+a_k)\Gamma(v_e-t+b_k)\mathrm{d}t} & v_k \leq x \leq v_k + v_l \\ 0 & v_k + v_l < x \end{aligned}$$

Plotting this continuous and translated set of distributions gives us Figure 9.

The distributions have now been translated by the candidates' current vote counts. Furthermore, just as one would expect, there is very little difference in the shape of each distribution, because the discrete plots already had so many points that they looked

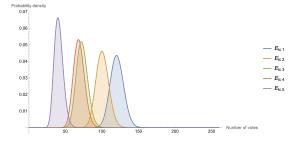


Figure 9: The set of distributions E_{tc}

continuous. The only noticeable change is the scale, due to the rescaling done above.

This is finally a set of continuous probability distributions taking into account the current vote counts and the number of votes left to be counted. However, before using the formula derived in Section 1.6, the CDF of E_{tck} also needs to be known.

Once again, the only relevant interval is $[v_k, v_k + v_l]$, as the cumulative probability of having less than the current number of votes is 0 and the cumulative probability of having more than the possible number of votes is 1.

$$\begin{split} P(E_{tck} \leq x) &= \int_{v_k}^x E_{tck}(r) \, \mathrm{d}r \\ &= \int_{v_k}^x \frac{\binom{v_l}{r - v_k} \Gamma(r + a_k) \Gamma(v_e - r + b_k)}{\binom{\int_{v_k}^{v_k + vl} \binom{v_l}{t - v_k} \Gamma(t + a_k)}{\Gamma(v_e - t + b_k) \, \mathrm{d}t}} \, \mathrm{d}r \\ &= \frac{\int_{v_k}^x \binom{v_l}{r - v_k} \Gamma(r + a_k) \Gamma(v_e - r + b_k) \, \mathrm{d}r}{\int_{v_k}^{v_k + vl} \binom{v_l}{t - v_k} \Gamma(t + a_k) \Gamma(v_e - t + b_k) \, \mathrm{d}t} \end{split}$$

Including the restrictions, the full definition of the CDF of E_{tck} would therefore be the following:

$$\begin{split} P(E_{ctk} \leq x) = \\ \begin{cases} 0 & x < v_k \\ \frac{\int_{v_k}^x {v_l \choose r - v_k} \Gamma(r + a_k) \Gamma(v_e - r + b_k) \mathrm{d}r}{\int_{v_k}^{v_k + vl} {v_l \choose t - v_k} \Gamma(t + a_k) \Gamma(v_e - t + b_k) \mathrm{d}t} & v_k \leq x \leq v_k + v_l \\ 1 & v_k + v_l < x \end{split}$$

Remembering the equation from Section 1.6, it is now possible to replace the terms with the expressions found in this section.

$$P\left(\bigcap_{i=1}^{n} E_{tck} \ge E_{tci}\right) = \int_{v_k}^{v_k + v_l} P(E_{tck} = x) \prod_{\substack{j=1\\ j \ne k}}^{n} P(E_{tcj} \le x) \,\mathrm{d}x$$

Using this formula in the context of the example yields the following predictions.

 Table 1: Predictions from first and second model

Candidate $\#$	Section 1.6	Section 1.7
1	0.86658	0.96604
2	0.13183	0.03395
3	0.00012	0.00000
4	0.00004	0.00000
5	0.00000	0.00000

It can be observed that the predictions shift significantly once the number of remaining votes is taken into account. The probability of the first candidate winning is augmented by approximately 10 percentage points, consequently reducing the probability of other candidates' victory. This is plausible, considering the leading candidate not only has a greater probability of gaining a vote than its rivals, but also because it does not need to catch up to anyone.

2. Analyzing the Model

2.1. Collecting Real World Data

To analyze the accuracy of the model, comparing it to past real world data is a must. However, as the required data points are partial results (while the ballots are still being counted), there is very little publicly available data. Fortunately, Radio-Canada has public archives of all broadcast election nights from the last few years.

By using optical character recognition software, data from the following elections has been gathered.

- Canada (Federal), 2019; Sources: [2], [11]
- Canada (Federal), 2021; Sources: [2], [12]
- Ontario (Provincial), 2022; Sources: [3], [13]
- Quebec (Provincial), 2022; Sources: [4], [14]

For each constituency of each election, the on-screen data about current ballot counts, as well as the number of boxes counted versus the total number of boxes in the constituency was recorded. This was then crossreferenced with public records to identify the final winner in each case. This data was then combined into the dataset, spanning 603 rows about 228 distinct constituencies, available in Appendix A.

2.2. Analyzing the Data

To compare the statistical model to real-world data, a plot showing the probability of being elected based on the empirical data will be quite useful. However, it is impossible to show all the useful dimensions of the dataset (the vote count for each of the candidates and the percentage of votes counted) in a single plot, as this would require a 7-dimensional graph in a fivecandidate election (6 for the independent variables and 1 for the dependent variable). This problem can be solved by using the percentage of votes counted and the percentage lead of the leading candidate as axes, as these embedded many of the other axes within them.

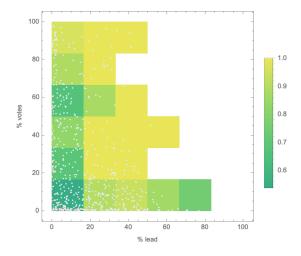


Figure 10: Plot of the collected data

Figure 10 shows exactly this. It was built by first plotting all 603 data points on a plot with the axes described above. These points were then coloured based on whether or not the leading candidate was elected in the end (blue if elected, red if not). The axes were then separated into 6 segments each, creating 36 bins. Finally, the bins were coloured based on the ratio of blue points (situations where the lead won) over the total number of points (total number of situations). For example, if in the upper left bin, there are 28 points, with only one red. This means that out of 28 observed situations with 0% to 10% of votes counted and 90% to 100% lead, only once did the leading candidate not win. The probability of the leading candidate winning if the situation is in that bin is therefore $\frac{27}{28} \approx 0.9643$, which means the bin will be yellow. The cells that do not contain any points were left white. This makes this plot a two-dimensional histogram of the probability of a lead candidate winning if it lands in a specific bin.

However, it is important to keep in mind to keep in mind that the axes used here are not a direct representation of the original data. The representation taking only values derived from the raw data into account, the plot assumes that all the other factors average out. Therefore, it is only reliable when many data points are in each bin, which explains why there is some random variation in the colours of the graph. This random variation introduces a source of error when working with the data: the size of the bins (derived from the number of bins) can change the observed trends. The number 36 was chosen here as a tradeoff between having enough bins to observe trends, while having each bin contain quite a few points.

As one can see, for very low percentages of votes counted, there is quite a bit of random variation in the probability of being elected. However, as the percentage of votes and the percentage of lead increases, the probability of the lead being elected increases. This is represented by the graph being more and more yellow towards the top-right corner.

2.3. Evaluating the Model

Due to the time-cost of the expression found in Section 1.7, plotting it in a continuous manner is not really feasible, especially when taking into account that it would need to be averaged over many other factors. Therefore, another method is required to visualize it. The chosen solution was to generate random points in the 6-dimensional space (a number of votes for each of the five candidates and the final total number of votes), feeding them through the function found above and finally graphing them in the same fashion as the real world data in Figure 10. The only difference in the graph is that the bins were coloured based on the average of the points they were containing, as each point already represented the probability for the lead candidate to be elected.

The total number of votes was generated based on the normal approximation of the total number of votes per constituency from dataset (mean of 43 476 and standard deviation of 13 106), truncated to a reasonable range, 8000 to 80 000.

The principal downside to using random points is that it allows for some random variation in the graphs, which is why the graphs below were made with as many points as possible.

Plotting the graph described above yields Figure 11.

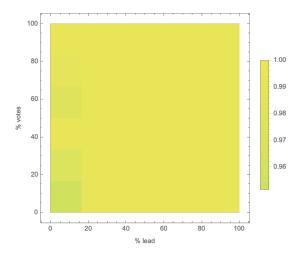


Figure 11: Plot of the model from Section 1.7 with 835 random points

Sadly, Figure 11 shines the light on an important issue: the model is over confident compared to what should be expected based on real-world data. For example, the model predicts a 0.95 probability of winning even when only 0% to 16.67% of votes were counted and the leading candidate only had 0% to 16.67% of lead. This means that each vote fed the model carries too much certainty.

The simplest fix for this would therefore be to scale down the number of votes given to the model by a certain scaling constant, S, in order to diminish their importance. The rationale for this probably – lies in the fact that each vote was assumed to be – completely independent from all others, even though this is probably not the case in real-life, where many factors influence the relation between different votes.

Examples of this may include: (I) opinions varying – between different geographic or demographics parts of the constituency (II) herd mentality taking place (III) individuals trying to account for the failures of the first-past-the-post voting system (not voting for their favourite candidate in order to prevent a candidate they dislike from getting into office), although this is probably more a humanities question than a mathematical one.

Applying this fix to the model is fortunately quite trivial. In fact, the only adjustment required is to divide each value of the set of votes per candidate vby the scaling constant S before calculating the total number of votes v_t , the number of expected votes v_e and the expected number of votes left to be counted v_l .

For example, using the example data from Section 1 and a scaling constant of S = 10 would yield the following values.

$$n = 5$$

$$v = \left\{ \frac{60}{10}, \frac{50}{10}, \frac{36}{10}, \frac{34}{10}, \frac{20}{10} \right\}$$

$$= \{6, 5, 3.6, 3.4, 2, 1\}$$

$$v_t = 6 + 5 + 3.6 + 3.4 + 2 = 20$$

$$b_c = 10$$

$$b_t = 16$$

$$v_e = \frac{16}{10}(200) = 32$$

$$v_l = 32 - 20 = 12$$

As justified earlier in Section 1.7, it is perfectly valid to use non-integer values in the function, as it does not rely on any integer-only functions or operations.

With this scaling back of S = 10, the model would

The simplest fix for this would therefore be to scale now yield the following probabilities as its predictions.

Table 2: Predictions from first,

	second and th	ird model	·
Candidate $\#$	Section 1.6	Section 1.7	Section 2
1	0.86658	0.96604	0.66200
2	0.13183	0.03395	0.25740
3	0.00012	0.00000	0.04492
4	0.00004	0.00000	0.03321
5	0.00000	0.00000	0.00246

The scaled-down model produces probabilities much closer to each other. The model calculated a much smaller probability for the first candidate to win and a much larger one for all the others.

The next step would therefore be to find the value of S that maximizes the accuracy of the model¹¹. First, a metric defining how good a certain value of S is will be required. A sufficient way to evaluate this could be to generate a plot of the model for a certain value of S, and look at the difference, in each bin, between the calculated probability for the leading candidate winning and the real world probability from the equivalent bin. Then, the average of the absolute value of these differences could be used as the metric for the value of S. The goal would then simply be to find the value of S that minimizes this average error. This can be visualized in Figure 12.

In Figure 12, one can see how the error varies bin per bin, from approximately 0.00 at 33.33% to 50%of lead and 83.33% to 100% of votes counted up to approximately 0.25 at 0% to 16.67% of lead and 50%to 66.67% of votes counted. Calculating the average of the different bins in this plot would yield an average error of approximately 0.0596.

However, it is important to realize that this graph is susceptible to quite a few sources of $\operatorname{error}^{12}$:

1. The real world data probably contains quite a few anomalies due to the relatively small dataset gathered (approximately 600 points divided in

¹¹For the sake of brevity, the following steps will be a simple attempt at optimizing this parameter. However, a more rigorous and complete working of the optimal value would make a most interesting extension to this paper.

¹²Although a quantitative way to handle these error sources would be most helpful, such a thing has been deemed outside of the scope of this paper.

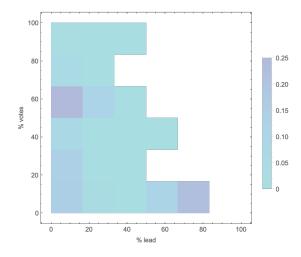


Figure 12: Plot of the error in the model for S = 100

36 bins only leaves about 16 points per bin, with some having much less). For example, the bin at 0% to 16.67% of lead and 50% to 66.67% in the real world data plot (Figure 10) does seem to have an abnormally low probability of the leading candidate being elected compared to its neighbours.

- 2. This also means that changing the number of bins would probably change the average error in the plot due to point moving over boundaries.
- 3. The model plot being generated from random points, it is also somewhat susceptible to random error.

Calculating the average error for some values of S gives the following results¹³:

Table 3: Values of S tested with the number of
random points used and the average error

Value of S	Number of random points	Average error
1	835	0.0999
3	2865	0.0972
100	5000	0.0596
251	5000	0.0449
376	5000	0.0498
500	5000	0.0495
544	5000	0.0542
587	5000	0.0550
1000	5000	0.0818

 $^{13}\mathrm{Smaller}$ values of S have less random points, as they are much more expansive to compute.

Those values were selected quite randomly within a reasonable range of values for S (1 to 1000), while using an approximate binary-search inspired algorithm (starting at the extremes of the reasonable range of values and recursively testing values in their middle). The point S = 251 was also selected, as it is approximately the average number of votes per ballot box in the collected dataset.

Out of these points, S = 251 seems to be the optimal value, having the smallest average error. This seems to indicate that even though individual votes are not truly independent, individual ballot boxes can be taken to be. This gives an outcome really quite close to the real world data, with an average error of only (approximately) 0.0449. This version of the model and its error can be visualized in Figures 13 and 14.

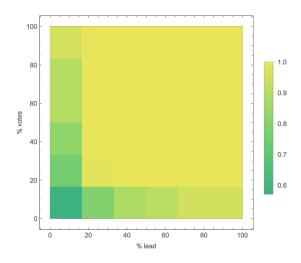


Figure 13: Plot of the model for S = 251

As one can see, the mathematical model with S = 251 produces an output (Figure 13) really quite similar to the real-world data (Figure 10), to the exceptions of some anomalies.

This is in terms shown in Figure 14 by a mostly blue graph, indicating a very small per bin difference and, therefore, a very small average difference.

Figure 13 also shows the expected general trend: the more votes are counted and the more lead the leading candidate has, the higher are its chances of winning. One can also observe other, more specific, trends, such as the fact that the probability of being

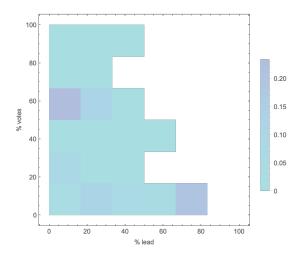


Figure 14: Plot of the error in the model for S = 251

elected gets really quite close to 1 as soon as more than approximately 16.67% of votes are counted and that there is more than 16.67% lead.

3. Conclusion

In conclusion, thanks to the tools of conditional probability, it was possible to build a mathematical model to calculate the probability that a certain candidate in a given constituency has to win. To do so, a likelihood function summarizing the probability of observing the current evidence (the number of votes for each candidate) was first build. This was followed by the construction of prior beliefs using prior elicitation to summarize what was thought about each candidate before observing any election results, based on, for example, survey data. It was then possible to combine those two pieces of information using Bayes' theorem to obtain a probability distribution representing the probability that a certain candidate had a certain probability of gaining the next vote. Using a translated beta-binomial distribution, it was then possible to find the final expected number of votes for each candidate, which was could then be compared to find the probability that a certain candidate had to win. Finally, it was observed that scaling back the number of votes, by a factor found to be near 251, was required in order to make the model's output much closer to the collected real world data. This led to an average error of less than 0.045.

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Appendices

A. Collected Data

Alter Alter <t< th=""><th>Constituency</th><th>Boxes Counted</th><th>Total Boxes</th><th>R-C Elected</th><th>First</th><th>First Count</th><th>Second</th><th>Second Count</th><th>Third</th><th>Third Count</th><th>Fourth</th><th>Fourth Count</th><th>Fifth</th><th>Fifth Count</th><th>Total Votes</th><th>End Winner</th><th>End Total Votes</th></t<>	Constituency	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	Fourth	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total Votes
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CHATEAUGUAY LACOLLE 29 222 No BQ 3246 LPC 2048 CPC 105 NDP 378 Other 0 6725 LPC 4863 CHATEAUGUAY LACOLLE 222 No BQ 3246 LPC 2048 CPC 105 NDP 378 Other 0 6725 LPC 4863 CHATEAUGUAY LACOLLE 222 No BQ 3240 CPC 1026 CPC 1026 CPC 4043 NDP 378 Other 0 6725 LPC 4863 CHICOUTIMI LE FJORD 100 161 No CPC 739 BQ 6151 LPC 371 NDP 1030 Other 0 7393 CPC 4206 CHICOUTIMI LE FJORD 100 161 No CPC 9565 LPC 3021 CPC 301 NDP 1030 Other 0 11601 NDP 1793 OAST OF BAYS 175 No ND 5025 LPC 3021 CPC 3014 PPC 631	CHATEAUGUAY LACOLLE																
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CHRCOUTINIL LE FJORD 120 161 No CPC 9586 BQ 706 LPC 4324 NDP 1327 Other 0 23203 CPC 4300 CHRCOUTINIL LE FJORD 15 15 167 No NDP 5025 LPC 3021 CPC 312 NDP 1327 Other 0 23203 CPC 4300 CHRCHILL KEEWATINOOK ASKT 115 167 No NDP 5025 LPC 3021 CPC 310 PC 0 Other 0 Other 0 161 ND 17927 COAST OF BAYS CENTRAL NOT RE DAME 46 No LPC 1337 CPC 4 ND 0 Other 0 Other 0 Other 0 2920 CPC 31834 ND CAST OF BAYS CENTRAL 80 140 No LPC 3050 CPC 2061 NDP 482 Other 0 Other 0 2920 CPC 31834 NOT RE DAME 80 246 No LPC 3	CHICOUTIMI LE FJORD	100	161	No	CPC	7139			LPC	3371	NDP	1030		ő	17691	CPC	
ASKI ASKI Inf Inf<	CHICOUTIMI LE FJORD		161				BQ		LPC				Other	0		CPC	42006
NOTRE DAME 1 240 No LPC 23 CPC 4 ND ² 0 Other 0 Other 0 27 CPC 31834 COAST OF BAYS CENTRAL NOTRE DAME 45 246 No LPC 1397 CPC 1331 NDP 192 Other 0 Other 0 2920 CPC 31834 CAST OF BAYS CENTRAL NOTRE DAME 80 246 No LPC 3050 CPC 2961 NDP 482 Other 0 Other 0 6493 CPC 31834 CAST OF BAYS CENTRAL ON THE DAME 120 246 No CPC 3161 LPC 4915 NDP 785 Other 0 Other 0 10864 CPC 31834	ASKI	115	157	No	NDP	5025	LPC	3021	CPC	3014	PPC	631	Other	0	11691	NDP	17927
COAST OF BAYS CENTRAL NOTE DAME 45 246 No LPC 1397 CPC 1331 NDP 192 Other 0 Other 0 2920 CPC 31834 COAST OF BAYS CENTRAL NOTE DAME 80 246 No LPC 3050 CPC 2961 NDP 482 Other 0 Other 0 6493 CPC 31834 COAST OF BAYS CENTRAL NOTE DAME 120 246 No CPC 5161 LPC 4915 NDP 788 Other 0 Other 0 10864 CPC 31834		1	246	No	LPC	23	CPC	4	NDP	0	Other	0	Other	0	27	CPC	31834
COAST OF BAYS CENTRAL NOTRE DAME 80 246 No LPC 3050 CPC 2961 NDP 482 Other 0 Other 0 6493 CPC 31834 COAST OF BAYS CENTRAL 120 246 No CPC 5161 LPC 4915 NDP 788 Other 0 Other 0 10864 CPC 31834	COAST OF BAYS CENTRAL	45	246	No	LPC	1397	CPC	1331	NDP	192	Other	0	Other	0	2920	CPC	31834
NOTRE DAME COAST OF BAYS CENTRAL 120 246 No CPC 5161 LPC 4915 NDP 788 Other 0 Other 0 10864 CPC 31834 NOTRE DAME UNITED L	COAST OF BAYS CENTRAL	80		No	LPC	3050	CPC	2961		482	Other	0		0		CPC	31834
NOTRE DAME	COAST OF BAYS CENTRAL	120										0					
NOTRE DAME 159 246 No CPC 7260 LPC 6849 NDP 1120 Other 0 Other 0 15229 CPC 31834	COAST OF BAYS CENTRAL	159	246	No	CPC	7260	LPC	6849	NDP	1120	Other	0	Other	0	15229	CPC	31834

Constituency	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	Fourth	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total V
COAST OF BAYS CENTRAL	243	246	No	CPC	13874	LPC	13125	NDP	2140	Other	0	Other	0	29139	CPC	31834
NOTRE DAME COMPTON STANSTEAD	220	275	No	LPC	13308	BQ	11229	CPC	6511	NDP	2848	Other	0	33896	LPC	57796
CUMBERLAND COLCHESTER	15	218	No	CPC	742	LPC	618	NDP	200 447	PPC	89 164	Other	0	1649	CPC	40417
CUMBERLAND COLCHESTER CUMBERLAND COLCHESTER	34 108	218 218	No	CPC CPC	1578 6310	LPC	1188 4637	NDP NDP	447 1771	PPC PPC	164 631	Other	0	3377 13349	CPC	40417 40417
DARTMOUTH COLE	108	218						PPC					0		LPC	
HARBOUR	1	209	No	NDP	232	LPC	223	PPC	65	GPC	26	Other	0	546	LPC	45628
DARTMOUTH COLE	15	209	No	LPC	1229	NDP	1002	PPC	308	GPC	77	Other	0	2616	LPC	45628
HARBOUR DORVAL LACHINE LASALLE	69	233	No	LPC	5727	во	1745	NDP	1633	CPC	1352	Other	0	10457	LPC	48141
DURHAM	1	233	No	CPC	29	LPC	15	NDP	4	PPC	0	Other	0	48	CPC	67730
DURHAM	34	217	No	CPC	2874	LPC	1485	NDP	1010	PPC	313	Other	0	5682	CPC	67730
EDMONTON CENTRE EDMONTON STRATHCONA	3 150	209 216	No	LPC NDP	75 17570	CPC	71 7847	NDP LPC	37 2304	PPC	4 1558	Other Other	0	187 29279	LPC NDP	49148 52223
EGMONT	51	100	No	LPC	3010	CPC	2074	GPC	2304 699	NDP	620	Other	0	6403	LPC	52223 19561
ELMWOOD TRANSCONA	175	188	No	NDP	15839	CPC	8856	LPC	4795	PPC	1881	Other	ő	31371	NDP	41839
FREDERICTON	1	154	No	LPC	3	CPC	2	GPC	2	NDP	0	Other	0	7	LPC	44062
FREDERICTON	6 29	154 154	No No	CPC CPC	784 2007	LPC	466 1971	GPC GPC	205 847	NDP NDP	182 779	Other Other	0	1637 5604	LPC	44062 44062
FREDERICTON	63	154	No	CPC	4235	LPC	4101	NDP	1750	GPC	1699	Other	0	11785	LPC	44062
FREDERICTON	80	154	No	LPC	6272	CPC	6109	NDP	2395	GPC	2354	Other	0	17130	LPC	44062
FREDERICTON	85 104	154 154	No No	CPC	6590	LPC	6575	NDP	2599	GPC GPC	2455	Other	0	18219	LPC LPC	44062 44062
FREDERICTON FREDERICTON	104 148	154 154	No	LPC	8484 14834	LPC CPC	8357 14524	NDP	3330 5207	GPC	3116 5167	Other Other	0	23287 39732	LPC	44062 44062
FUNDY ROYAL	148	200	No	LPC	14834	NDP	14524	CPC	5207	PPC	5167	Other	0	39732	CPC	44062
FUNDY ROYAL	30	200	No	CPC	1950	LPC	948	NDP	601	PPC	490	Other	0	3989	CPC	44382
GASPESIE LES ILES DE LA	1	223	No	BQ	115	LPC	84	CPC	43	NDP	5	Other	0	247	LPC	36858
MADELEINE		220	140	1502	115	LFC	84	CFC	40	NDF	5	Other	0	247	LFC	30838
GASPESIE LES ILES DE LA MADELEINE	4	223	No	BQ	212	LPC	208	CPC	70	NDP	40	Other	0	530	LPC	36858
GASPESIE LES ILES DE LA																
MADELEINE	8	223	No	LPC	340	BQ	326	CPC	106	NDP	53	Other	0	825	LPC	36858
GASPESIE LES ILES DE LA	10	223	No	BQ	444	LPC	413	CPC	143	NDP	59	Other	0	1059	LPC	36858
MADELEINE GASPESIE LES ILES DE LA																
GASPESIE LES ILES DE LA MADELEINE	15	223	No	LPC	833	BQ	706	CPC	206	NDP	97	Other	0	1842	LPC	36858
GASPESIE LES ILES DE LA	40	223	No	LPC	2276	PO	1772	CPC		NDP	235	Other	0	4694	LPC	36858
MADELEINE	40	223	No	LPC	2276	BQ	1772	CPC	411	NDP	235	Other	0	4694	LPC	36858
GASPESIE LES ILES DE LA	55	223	No	LPC	3089	BQ	2478	CPC	534	NDP	293	Other	0	6394	LPC	36858
GATINEAU		223	No	GPC	54	Other	16	CPC		PPC		Other	0	76	LPC	52497
GATINEAU	65	223	No	LPC	6249	BO	2847	CPC	1344	NDP	1052	Other	0	11492	LPC	52497
HALIFAX	1	184	No	LPC	14	CPC	6	NDP	3	GPC	1	Other	ö	24	LPC	51248
HAMILTON CENTRE	130	194	No	NDP	12651	LPC	6821	CPC	4010	PPC	1719	Other	0	25201	NDP	41280
HONORE MERCIER HONORE MERCIER	1	219 219	No	LPC	63 88	BQ BO	14 25	CPC	12 13	NDP	11 13	Other Other	0	100 139	LPC	48409 48409
HONORE MERCIER HONORE MERCIER	3 60	219 219	No	LPC	88 7183	BQ	25 2180	CPC	13 1274	NDP	13 835	Other	0	139 11472	LPC	48409 48409
HULL AYLMER	31	213	No	LPC	2656	BQ	743	NDP	739	CPC	541	Other	0	4679	LPC	51249
JOLIETTE	10	272	No	LPC	512	BQ	339	CPC	88	Other	17	Other	0	956	BQ	56198
JOLIETTE	45	272	No	BQ	5457	LPC	2586	CPC	965	NDP	518	Other	0	9526	BQ	56198
JONQUIERE KENORA	190 12	223 150	No No	BQ	16538 623	CPC LPC	11894 177	LPC CPC	8272	NDP PPC	2430 27	Other Other	0	39134 998	BQ CPC	45474 26083
KINGS HANTS	2	228	No	LPC	110	CPC	91	NDP	171 57	GPC	10	Other	0	268	LPC	44956
KITCHENER CENTRE	3	216	No	GPC	289	NDP	179	LPC	157	CPC	157	Other	0	782	GPC	51179
KITCHENER CENTRE	145	216	No	GPC	7426	CPC	5811	NDP	4309	LPC	4128	Other	0	21674	GPC	51179
LA POINTE DE L'ILE LABRADOR	182	262 88	No No	BQ LPC	12267 24	LPC NDP	9160	NDP CPC	2729	CPC PPC	1893 1	Other Other	0	26049 36	BQ LPC	51080 9653
LABRADOR	45	88	No	LPC	1851	CPC	1231	NDP	939	PPC	117	Other	0	4138	LPC	9653
LAC SAINT JEAN	1	304	No	BQ	43	LPC	32	CPC	7	NDP	0	Other	0	82	BQ	50197
LAC SAINT JEAN	50	304	No	BQ	2369	CPC	1219	LPC	991	NDP	168	Other	0	4747	BQ	50197
LAC SAINT LOUIS LASALLE EMARD VERDUN	44 85	233 209	No	LPC	3902 6651	CPC BQ	1380 3334	NDP NDP	1122 2795	BQ CPC	428 1217	Other Other	0	6832 13997	LPC	57725 47360
LAURENTIDES LABELLE	5	296	No	BO	1240	LPC	679	CPC	278	NDP	135	Other	0	2332	BQ	64123
LAURENTIDES LABELLE	267	296 178	No	BQ	27135	LPC	13569	CPC	5716	NDP	3259	Other	0	49679	BQ	64123
LAURIER SAINTE MARIE	35	178	No	LPC	2293	NDP	1935	BQ	1178	CPC	225	Other	0	5631	LPC	44676
LAURIER SAINTE MARIE LAVAL LES ILES	43	178 222	No No	LPC	2779 54	NDP BO	2515 34	BQ CPC	1488 14	CPC PPC	271	Other Other	0	7053 105	LPC	44676 50597
LEVIS LOTBINIERE	240	298	No	CPC	25708	BQ	10899	LPC	7268	NDP	3529	Other	0	47404	CPC	63407
LONDON FANSHAWE	200	240	No	NDP	13374	LPC	7412	CPC	7266	PPC	2786	Other	0	30838	NDP	51422
LONG RANGE MOUNTAINS	1	265	No	CPC	55	LPC	29	PPC	2	NDP	1	Other	0	87	LPC	36447
LONG RANGE MOUNTAINS LONG RANGE MOUNTAINS	4 10	265 265	No	CPC LPC	149 252	LPC CPC	111 241	NDP NDP	8 41	PPC PPC	8 25	Other Other	0	276 559	LPC LPC	36447 36447
LONG RANGE MOUNTAINS	80	265	No	LPC	3354	CPC	3231	NDP	676	PPC	365	Other	0	7626	LPC	36447
LONG RANGE MOUNTAINS	210	265	No	LPC	11090	CPC	9929	NDP	2875	PPC	1195	Other	Ó	25089	LPC	36447
LONGUEUIL CHARLES	165	230	No	LPC	8825	BQ	7425	NDP	2854	CPC	1913	Other	0	21017	LPC	47970
LEMOYNE LONGUEUIL SAINT HUBERT	3	233	No	LPC	136	BQ	120	NDP		CPC	10	Other	0	288	BO	57235
LONGUEUIL SAINT HUBERT	25	233	No	LPC	1653	BQ	1646	NDP	22 358	CPC	264	Other	0	3921	BQ	57235
LONGUEUIL SAINT HUBERT	42	233	No	LPC	2747	BQ	2743	NDP	623	CPC	450	Other	õ	6563	BQ	57235
LONGUEUIL SAINT HUBERT	87	233	No	LPC	5749	BO	5465	NDP	1325	CPC	956	Other	0	13495	BO	57235
LONGUEUIL SAINT HUBERT LONGUEUIL SAINT HUBERT	87 95 185	233 233	No	LPC	6245 13253	BQ BQ	5924 12901	NDP NDP	1439 3065	CPC	1050 2317	Other Other	0	14658 31536	BQ BQ	57235 57235
LOUIS SAINT LAURENT	185	233 255	No	CPC	13253 12121	BQ	4709	LPC	3065 4290	NDP	2317 1563	Other	0	31536 22683	CPC	57235 64098
MADAWASKA RESTIGOUCHE	40	144	No	LPC	2479	CPC	1343	NDP	462	PPC	393	Other	0	4677	LPC	30546
MALPEQUE	1 245	90	No	LPC	313	CPC CPC	209	GPC	81 5563	NDP	47 1379	Other	0	650	LPC	23707
MANICOUÀGAN MEGANTIC L'ERABLE	245	261 243	No	BQ CPC	15127 874	CPC	6332 319	LPC	5563 245	NDP PPC	1379 25	Other	0	28401 1463	BQ	35000 46428
MEGANTIC L'ERABLE MEGANTIC L'ERABLE	2 30	243 243	No	CPC	874 5294	BQ BO	319 1953	LPC	245 1353	PPC	25 206	Other Other	0	1463 8806	CPC	46428 46428
MIRABEL	120	243 268	No	BQ	10081	LPC	5497	CPC	2856	NDP	2239	Other	0	20673	BQ	46428 63112
MIRAMICHI GRAND LAKE	3 25	158	No	LPC	206	CPC	168	NDP	53 365	PPC	28 286	Other	0	455	CPC	32503
MIRAMICHI GRAND LAKE		158	No	CPC	1611	LPC	1439	NDP		PPC	286	Other	0	3701	CPC	32503
MONCTON RIVERVIEW DIEPPE	25	187	No	LPC	2790	CPC	1304	NDP	914	PPC	329	Other	0	5337	LPC	45762
DIEPPE MONTARVILLE	1	216	No	LPC	82	BQ	72	NDP	40	CPC	13	Other	0	207	BO	57472
MONTARVILLE		216	No	LPC	1226	BQ	1196	NDP	393	CPC	292	Other	0	3107	BQ	57472
MONTARVILLE	20 74	216	No	BQ	5368	LPC	4781	NDP	1453	CPC	1251	Other	ó	12853	BQ	57472
MONTARVILLE	165	216	No	BQ	15186	LPC	12560	CPC	3281	NDP	3276	Other	0	34303	BQ	57472
MONTCALM MONTMACNY LUSI FT	178	236	No	BQ	20198	LPC	7308	CPC	4291	NDP	2284	Other	0	34081	BQ	51452
MONTMAGNY L'ISLET	1	271	No	LPC	7	CPC	7	BQ	2	NDP	0	Other	0	16	CPC	47812
KAMOURASKA RIVIERE DU LOUP	1	271	NO	LPC	7	OPC	7	вQ	2	NDP	0	Other	0	16	OPC	47812
MONTMAGNY L'ISLET																
KAMOURASKA RIVIERE DU	10	271	No	CPC	377	LPC	188	BQ	142	Other	27	Other	0	734	CPC	47812
LOUP																
LOUP MONTMAGNY L'ISLET	100	071		ana								0.1	0	10000	ana	
LOUP MONTMAGNY L'ISLET KAMOURASKA RIVIERE DU	108	271	No	CPC	8775	BQ	4140	LPC	2786	NDP	507	Other	0	16208	CPC	47812
LOUP MONTMAGNY L'ISLET KAMOURASKA RIVIERE DU LOUP																47812
LOUP MONTMAGNY L'ISLET KAMOURASKA RIVIERE DU	108 30	271 176	No	CPC CPC	8775	BQ LPC	4140 885	NDP	2786 587	NDP	507 437	Other Other	0	16208 4120	CPC CPC	47812 36629

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SAMPLACHIC Circl Circl Solution Circl Solution Circl Solution Circl Solution	41814 56337
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SUCH BUOMERT. MARGARETS 40 20 No CPC 210 LPC 161 ND 94 OPC 174 Other 0 4489 CPC BOUMERTS 105 70 No CPC 970 LPC 170 No PPC 7 Other 0 2237 CPC TAUGARETS 105 70 No LPC 170 No PPC 1 Other 0 2337 LPC TAUGARETS 105 126 127 CPC 236 CPC 236 CPC 236 CPC 137 Other 0 2363 LPC ST. JOUNS LAST 64 126 ND 236 LPC 136 CPC 137 Other 0 564 LPC ST. JOUNS LAST 64 126 ND 126 CPC 137 Other 0 564 LPC ST. JOUNS LAST 6437 0 126 126 <td>50004</td>	50004
STIC SUPERT 16 270 No CPC 710 NoP 428 OPC 71 Oher 0 3237 CPC FT 10187 5 Astr 1 182 No NoP 127 1018 5 Astr 0 182 No NoP 127 1018 5 Astr 0 182 No NoP 127 1018 5 Astr 0 0 0 128 126 126 126 126 126 126 126 126 126 126 126 126 0 0 0 126 126 0 0 126 0 126 0 126 0 126 126 0 126 0 126 0 126 0 126 0 126 0 126 0 126 0 126 0 126 0 126 126 0 126 126 126 126 126 126 126 126 126 126<	50004
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ST. JOHNS LAST 1 12 No. NDP 16 LPC 147 CPC 93 PPC 8 Ohler 0 413 LPC ST. JOHNS LAST 40 142 No. NDP 131 LPC 458 CPC 136 PPC 59 Ohler 0 9544 LPC ST. JOHNS LAST 40 142 No. NDP 131 LPC 958 CPC 356 PPC 350 Ohler 0 9544 LPC ST. JOHNS LAST 16 122 ND 140 PPC 346 CPC 346 PPC 350 Ohler 0 9544 LPC ST. JOHNS LAST 16 CPC 347 OPC 340 Ohler 0 12641 LPC 146 PPC 476 Ohler 0 12641 LPC 146 PPC 67 Ohler 0 126 12641 LPC 146 PPC 476 Ohler 0 126 12641 LPC 126 127 126 126 <td>38171</td>	38171
ST. JOHN & EAST 10 182 No NDP 5.22 LPC 5.53 CPC 3.53 PPC 3.9 Ohler 0 1341 LPC ST. JOHN & EAST 40 123 No LPC 3544 CPC 1340 PPC 3.1 Ohler 0 2444 LPC ST. JOHN & EAST 115 123 No LPC 3544 NPP 3140 CPC 1340 PPC 211 Ohler 0 2434 LPC ST. JOHN & EAST 115 124 No LPC 70.0 No LPC 2411 NoP 14.60 CPC 4461 PPC 671 Ohler 0 23.004 LPC ST. JOHN S EAST 136 NP LPC 1411 NDP 14.60 PPC 645 Ohler 0 0.0 No LPC ST. JOHN S EAST 145 NO LPC 141 NDP 14.60 PPC 64 Ohler 0 23.004 LPC ST. JOHN S EAST 145 NO <	38171 38171
ST. JOHN'S BAST 40 182 No NDP 2255 LPC 2119 CPC 1133 PPC 137 Other 0 6644 LPC ST. JOHN'S BAST 160 182 No LPC 10728 NDP 316 CPC 536 PPC 137 Other 0 2544 LPC ST. JOHN'S BAST 160 182 No LPC 10728 NDP 1080 CPC 630 PPC 617 Other 0 2504 LPC 100 100 2504 LPC 100 100 2504 LPC 100	38171
ST. JOIN'S EAST 116 126 No. LPC 102 NDP 635.5 CPC 347.0 PPC 381 Other 0 12726 LPC ST. JOIN'S EAST 175 132 No. LPC 1 No. LPC 2 NDP 2 PPC 0 Other 0 65 LPC ST. JOIN'S SOUTH MOUNT 2 PPC 1 20 Other 0 65 LPC ST. JOIN'S SOUTH MOUNT 2 207 No LPC 151 NDP 722 CPC 46 Other 0 0 53 LPC SUDNEY VICTORIA 3 205 No CPC 161 NDP 721 PPC 54 Other 0 152 LPC SYDNEY VICTORIA 1 205 No LPC 163 LPC 163 NDP 731 PPC 55 Other 0 163 LPC SYDNEY VICTORIA 16 No CPC 163 NDP 731 PPC 155 Other	38171 38171
ST. JOUN'S EAST 100 182 No LPC 10728 NDP 9134 CPC 205 757 Other 0 25011 Other 0 25011 Difter 25011 25011 Difter 25011 Difter 25011 25011 25011 25011 25011 25011 25011 25011 25011	38171 38171
TOPEARL 2 20 No LPC 1541 NDP 764 OPC 64 Other 0 2833 LPC STJ.DIDINT 1 205 No CPC 99 LPC 31 NDP 16 PPC 63 Other 0 122 LPC SYDNEY VICTORIA 10 205 No CPC 99 LPC 31 NDP 16 PPC 63 Other 0 1203 LPC SYDNEY VICTORIA 116 205 No LPC 636 CPC 8153 NDP 370 PPC 54 Other 0 1610 LPC SYDNEY VICTORIA 18 20 No LPC 945 NDP 370 PPC 54 Other 0 2630 PC 264 Other 0 2645 PC 264 PC 264 PPC 264 PC 158 277 PC 265 137	38171 38171
TOPEARL 2 20 No LPC 1541 NDP 764 OPC 64 Other 0 2833 LPC STJ.DIDINT 1 205 No CPC 99 LPC 31 NDP 16 PPC 63 Other 0 122 LPC SYDNEY VICTORIA 10 205 No CPC 99 LPC 31 NDP 16 PPC 63 Other 0 1203 LPC SYDNEY VICTORIA 116 205 No LPC 636 CPC 8153 NDP 370 PPC 54 Other 0 1610 LPC SYDNEY VICTORIA 18 20 No LPC 945 NDP 370 PPC 54 Other 0 2630 PC 264 Other 0 2645 PC 264 PC 264 PPC 264 PC 158 277 PC 265 137	38171 34676
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SYDERY VICTORIA 30 205 No CPC 1018 LPC 1011 NDP 721 PPC 158 Other 0 4108 LPC SYDERY VICTORIA 16 205 No LPC 6644 CPC 5815 NDP 2370 NDP 2370 NDP 2485 Other 0 28453 BQ TIMINIS JANES INV 148 176 No NDP 9330 CPC 1181 LPC 3260 NDP 2485 Other 0 28453 BQ TORONTO CENTRE 15 137 No LPC 1244 NDP 289 CPC 216 GPC 118 Other 0 3636 LPC TORONTO CENTRE 15 137 No LPC 3230 NDP 1538 CPC 1066 GPC 138 Other 0 648 LPC TORONTO CENTRE 5 0 137 No LPC 3230 NDP 2600 CPC 1066 GPC 343 Other 0 <t< td=""><td>34676 36312</td></t<>	34676 36312
TERLEBIONNE 153 207 No DQ 1200 LPC 1004 CPC 3505 NPP 2455 Other 0 24505 NPP TIMINUS JAMES BAY 148 176 No CPC 2278 LPC 945 NPP 3575 Other 0 3848 CPC TORIQUE MACTAQUAC 20 178 No LPC 2274 LPC 945 NPP 258 Other 0 3848 CPC TORIQUE MACTAQUAC 20 178 No LPC 2274 NP 280 CPC 106 CPC 430 Other 0 1363 LPC TORONTO CENTRE 5 137 No LPC 326 ND 2660 CPC 196 GPC 430 Other 0 16032 LPC TORONTO CENTRE 5 445 No LPC 247 BQ 144 CPC 150 MDP 58 Other <td>36312</td>	36312
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	36312 58949
TORONTO CENTRE 5 137 No LPC 7.4 ND 2.89 CPC 2.16 GPC 1.16 Orler 0 1.363 LPC TORONTO CENTRE 15 137 No LPC 1.346 NDP 8.49 CPC 6.33 GPC 1.16 Orler 0 3.746 LPC TORONTO CENTRE 2.8 1.37 No LPC 3.39 NDP 15.88 CPC 10.06 GPC 5.43 Other 0 6.36.9 LPC TORONTO CENTRE 2.8 1.37 No LPC 3.29 NDP 15.88 CPC 10.06 GPC 5.43 Other 0 6.36.9 LPC TORONTO CENTRE 4.45 No LPC 3.26 CPC 1.44 CPC 1.44 CPC 1.44 CPC 1.45 ND 1.45 ND 1.45 ND 1.44 NDP 1.58 Other 0 1.494 BQ TROIS RIVIERES 1.65 2.45 No CPC 7.13 BQ <t< td=""><td>34570 34400</td></t<>	34570 34400
TORONTO CENTRE 28 137 No LPC 323 NDP 15.88 CPC 1006 GPC 5.49 Other 0 6380 LPC TORONTO CENTRE 50 137 No LPC 3263 NDP 15.88 CPC 1046 GPC 5.49 Other 0 6380 LPC TRONTO CENTRE 5 44 No LPC 25.68 NDP 2609 CPC 144 NDP 5.80 Other 0 6494 EQ TROS RIVIERES 90 245 No CPC 646 BQ 6591 LPC 6210 NDP 1378 Other 0 21916 BQ TROS RIVIERES 165 245 No CPC 7101 BQ 7047 LPC 6210 NDP 2472 Other 0 23516 BQ TROS RIVIERES 180 245 No CPC 7131 BQ 7067 LPC 724 NDP 234 Other 0 2516 BQ TROS	45817 45817
TROIS RIVIERES 5 245 No LPC 247 BQ 184 CPC 159 NDP 58 Other 0 648 BQ TROIS RIVIERES 40 245 No LPC 1555 CPC 1438 BQ 1442 NDP 58 Other 0 6494 BQ TROIS RIVIERES 155 345 No CPC 6464 BQ 6591 LPC 6210 NDP 2472 Other 0 21919 BQ TROIS RIVIERES 165 245 No CPC 7101 BQ 7046 LPC 6210 NDP 2472 Other 0 22516 BQ TROIS RIVIERES 180 245 No CPC 7101 BQ 7066 LPC 726 NDP 2374 Other 0 26042 BQ TROIS RIVIERES 188 245 No CPC 7180 BQ 1012 LPC 7374 NDP 234 Other 0 26042 BQ VAUDREUL	45817
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	45817 58110
TROIS RIVIERES 155 245 No CPC 6646 BQ 6591 LPC 6210 NDP 2472 Other 0 21919 BQ TROIS RIVIERES 165 245 No CPC 7131 BQ 7047 LPC 6610 NDP 2472 Other 0 21919 BQ TROIS RIVIERES 180 245 No CPC 7131 BQ 7047 LPC 6661 NDP 2472 Other 0 23516 BQ TROIS RIVIERES 180 245 No CPC 7101 BQ 7040 LPC 723 NDP 2471 Other 0 23516 BQ TROIS RIVIERES 213 245 No CPC 71018 BQ 1012 LPC 733 BQ 1 Other 0 642 LPC VAUDREUL ES UD OUST 120 20 No LPC 464 NDP 3365 CPC 213 BQ 10 Other 0 1642 LPC <td< td=""><td>58110 58110</td></td<>	58110 58110
TROIS RIVIERES 180 245 No CPC 700 BQ 7006 LPC 726 NDP 2874 Other 0 2546 BQ TROIS RIVIERES 188 245 No CPC 7182 BQ 7702 LPC 7374 NDP 2874 Other 0 26042 BQ VAUDREUL SOLLANCES 11 245 No CPC 7182 BQ 7702 LPC 7374 NDP 2874 Other 0 26042 BQ VAUDREUL SOLLANCES 11 246 No LPC 1019 BQ 71012 LPC 9875 ND 340 Other 0 36047 EQ 1019 EQ	58110 58110
TROIS RIVIERES 213 245 No CPC 1019 BQ 1011 LPC 9879 NDP 340 Other 0 33067 BQ VAUDREXIL SOULANCEST 1 264 No CPC 51 CPC 7 NDP 3 BQ 10 ther 0 3607 BQ VILLE LE DES SOULDS 120 220 No LPC 804 NDP 3368 CPC 2193 BQ 2190 Other 0 16445 LPC WEST NOVA 5 244 No CPC 434 LPC 137 NDP 98 PC 390 Other 0 16445 LPC WEST NOVA 40 244 No CPC 384 LPC 183 NDP 867 PPC 420 Other 0 7000 CPC WEST NOVA 40 244 No NC 14400 LPC 920 CPC 667 PPC<	58110
VILLE MARIE LE SUD OUEST LE DES SOEURS 120 20 No LPC 8694 NDP 3368 CPC 2133 BQ 2190 Other 0 16445 LPC UES NOVA 5 244 No CPC 443 LPC 137 NDP 98 PPC 39 Other 0 707 CPC WEST NOVA 49 244 No CPC 484 LPC 137 NDP 98 PPC 39 Other 0 7060 CPC WEST NOVA 49 244 No CPC 484 LPC 1837 NDP 98 PPC 49 Other 0 7060 CPC WINDSOR WEST 190 236 No NDP 1440 LPC 290 CPC 652 PPC 286 Other 0 3290 NDP WINNSOR WEST 161 182 ND 1645 LPC 5606 CPC 2486	58110 58110
ILE DES SOCURS 120 20 NO EC 809 ND 308 CPC 193 BQ 100 0.087 0 10443 LPC WEST NOVA 5 244 No CPC 443 LPC 137 NDP 98 PPC 39 Other 0 10443 LPC WEST NOVA 40 244 No CPC 443 LPC 137 NDP 98 PPC 39 Other 0 717 CPC WEST NOVA 40 244 No CPC 348 LPC 138 NDP 87 PPC 49 Other 0 7060 CPC WEST NOVA 40 248 No CPC 386 CPC 635 PPC 490 Other 0 7060 CPC WEST NOVA 40 248 No NDP 1490 LPC 5060 CPC 2487 PPC 480 Other	64564
WEST NOVA 49 244 No CPC 38.4 LPC 18.3 NDP 867 PPC 426 Other 0 7060 CPC WINDSOR WEST 190 236 No NDP 14400 LPC 9269 CPC 6525 PPC 269 Other 0 3260 NDP WINNFEG CENTRE 161 182 No NDP 9045 LPC 5606 CPC 2437 PPC 826 Other 0 17964 NDP BARRE SPRINGWATER ORO 21 67 No LIB 6575 PCP 6370 NPD 1251 GPO 623 Other 0 14819 PCP	49423 43871
WINNIPEG CENTRE 161 182 No NDP 9045 LPC 5606 CPC 2487 PPC 826 Other 0 17964 NDP BARRIE SPRINGWATER ORO 21 67 No LIB 6575 PCP 6370 NPD 1251 GPO 623 Other 0 14819 PCP	43871
BARRE SPRINGWATER ORO 21 67 No LIB 6575 PCP 6370 NPD 1251 GPO 623 Other 0 14819 PCP MEDONTE	48693 29749
MEDONIE	38862
BARRIE SPRINGWATER ORD MEDIONER 65 67 No PCP 15950 LIB 15368 NPD 2960 GPO 1637 Other 0 35915 PCP	38862
MEDIATE BEACHES EAST YORK 22 41 No LIB 6871 NPD 6472 PCP 3991 GPO 1939 Other 0 19273 LIB	40029
DUFFERIN CALEDON 4 61 No PCP 986 GPO 471 LIB 306 NPD 252 Other 0 2015 PCP ESSEX 16 58 No PCP 7234 NPD 4655 LIB 1254 Other 1243 Other 0 14387 PCP	45354 47520
ETOBICOKE NORD 3 38 No PCP 678 LIB 329 NPD 191 Other 38 Other 0 1236 PCP	24580
GLENGARRY PRESCOTT 8 00 No. PCP. 3420 LIR 2861 NPD 768 Other 452 Other 0. 7501 PCP	24580 43573
RUSSELL C C C C C C C C C C C C C C C C C C	43573
RUSSELL 12 99 No PCP 4671 LIB 3954 NPD 1028 Other 587 Other 0 10240 PCP	
RUSSELL 02 55 NO FOI 10000 EID 11200 NED 2441 Oner 1022 Oner 0 20100 FOI	43573
GUELPH 1 86 No GPO 400 PCP 97 LIB 62 NPD 47 Other 0 606 GPO GUELPH 9 86 No GPO 3635 PCP 1270 LIB 801 NPD 54 Other 0 624 GPO	54185 54185
HALDIMAND NORPOLK 54 62 No Other 14.124 PCP 12.047 NPD 5.427 LIB 2772 Other 0 3.4370 IND HAMILTON CENTRE 6 53 No NPD 92 671 LIB 430 GPO 276 Other 0 3.371 NPD	41765 28326
HURON BRUCE 13 87 No PCP 1090 NPD 414 LIB 348 Other 166 Other 0 2018 PCP	46129
KINGSTON ET LES 1.19 86 No. LIB 7459 NPD 5106 PCP 4920 GPO 560 Other 0 18045 LIB	45176 47947
KINGSTON ET LES ILES 23 86 No LB 8579 NPD 5862 PCP 5771 GPO 646 Other 0 20858 LIB LAMETON KERT MIDDLFSEX 19 77 No PCP 8045 1310 Other 0 20858 LIB	47947 41372
LEEDS GREWILLE IS IN NO PCP 4539 LIB 1844 NPD 1393 GPO 577 Other 0 8343 PCP	41729
I HOUSAND ISLANDS EL 15 3/ NO PCP 4533 LIB 1854 NPD 1393 GPO 5// Utter 0 8343 PCP RIDEAU LAKES	41/20

Constituency LONDON CENTRE NORD	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	GPO	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total Votes
NEPEAN	3	51	No	PCP	67	LIB	43	NPD	25	Other	7	Other	0	142	PCP	43247
NEPEAN NIPISSING	19 15	51 72	No	PCP	3364 3832	LIB NPD	2797 2123	NPD LIB	1613 925	GPO GPO	331 271	Other	0	8105 7151	PCP PCP	43247 29848
ORLEANS OTTAWA CENTRE	35	72 57 120	No	LIB	17575 237	PCP	12159	NPD	5412	GPO	1823	Other	õ	36969 607	LIB	51213
OTTAWA CENTRE OTTAWA OUEST NEPEAN	1 44	120 70	No	NPD NPD	237 8563	LIB PCP	195 8457	PCP LIB	125 5317	GPO GPO	50 972	Other Other	0	607 23309	NDP NDP	55196 41814
OTTAWA SUD PARRY SOUND MUSKOKA	17	68	No	LIB PCP	5758 20216	NPD GPO	3399 18102	PCP NPD	2872	GPO Other	637	Other Other	0	12666 41709	LIB PCP	39851 44277
PICKERING UXBRIDGE	96 17	96 55	No	PCP	6635	LIB	4448	NPD	3391 2189	GPO	721	Other	0	13993	PCP	44277 42543
RENFREW NIPISSING PEMBROKE	14	98	No	PCP	1998	NPD	781	LIB	371	Other	166	Other	0	3316	PCP	38701
SUDBURY	1	89	No	NPD	8	LIB	6	PCP	5	Other	1	Other	0	20	NDP	28463
VAUGHAN WOODBRIDGE VAUGHAN WOODBRIDGE	1 15	38 38	No	PCP PCP	309 7015	LIB	171 4422	NPD NPD	41 725	GPO Other	19 320	Other Other	0	540 12482	PCP PCP	35378 35378
WINDSOR TECUMSEH	37	69	No	PCP	13040	NPD LIB	8855	LIB	4111	Other	875	Other	0	26881 3092	PCP	37062 35515
YORK SIMCOE YORK SUD WESTON	3 56	50 73	No	PCP PCP	1975 10259	NPD	602 9516	GPO LIB	269 6606	NPD GPO	246 701	Other Other	0	3092 27082	PCP PCP	35515 29972
ABITIBI-OUEST ACADIE	40	139	Yes No	CAQ	3876 828	PQ	1308	QS	849 274	PCQ	590 243	PLQ	404	7027	CAQ	22087 25415
ANJOU-LOUIS-RIEL	103	133	No	PLQ	5223	CAQ	4803	QS QS QS	2633	PQ	1656	PCQ	1323	15638	CAQ	26111
ANJOU-LOUIS-RIEL ARGENTEUIL	115 31	133 177	No Yes	PLQ CAQ	5844 4120	CAQ	5430 1120	QS PLQ	2838 952	PQ PCQ	1832 952	PCQ	1464 575	17408 7719	CAQ	26111 31671
BEAUCE-NORD	1	151	Yes No	CAQ	150	PQ PCQ	112	PQ PQ	18	PLQ	9	QS QS	4	293	CAQ	33445
BEAUCE-NORD BEAUCE-NORD	82 149	151 151	No	CAQ CAQ	8326 14365	PCQ PCQ	7993 14148	PQ PQ	1081 1955	QS QS	769 1425	PLQ PLQ	498 912	18667 32805	CAQ CAQ	33445 33445
BEAUCE-SUD	90	180	No	CAO	9148	PCQ	7916	PO	809	QS QS	724	PLQ	598	19195	CAO	36987
BEAUCE-SUD BERTRAND	171	180 181	No No	CAQ CAQ	15819 632	PCQ PQ	15373 216	QS QS	1427 149	PQ PLQ	1423 98	PLQ PCQ	995 78	35037 1173	CAQ CAQ	36987 34427
BONAVENTURE	1	134	No	CAQ	50	PQ	30	QS	8 77	PLQ	3	PCQ	3	94	CAQ	22174
BOURASSA-SAUVE BROME-MISSISQUOI	4	164 233	No	PLQ CAQ	214 224	CAQ PCQ	118 69	QS QS	68	PCQ PQ	46 61	PQ PLQ	38 45	493 467	PLQ CAQ	23752 43292
CAMILLE-LAURIN CAMILLE-LAURIN	1 13	173 173	No No	CAQ CAQ	128 1553	PQ PQ	91 1262	PLQ PLQ	38 313	PCQ PCQ	18 187	Other Other	0	275 3315	PQ PQ	28358 28358
CAMILLE-LAURIN	40	173	No	PQ	3424	CAQ	3382	PLQ	1048	PCQ	495	Other	0	8349	PQ	28358
CAMILLE-LAURIN CAMILLE-LAURIN	55 67	173 173	No	PQ PO	4565 5349	CAQ	4173 4557	PLQ PLQ	1394 1757	PCQ PCO	676 798	Other	0	10808 12461	PQ PQ	28358 28358
CAMILLE-LAURIN	83	173 173 173	No No	PO	6333	CAQ CAQ CAQ	5139	PLQ PLQ PLQ	2245	PCQ PCQ PCQ	976 1135	Other	0	14693	PQ PQ PQ	28358
CAMILLE-LAURIN CAMILLE-LAURIN	96 110	173 173	No Yes	PQ PQ	7232 8067	CAQ CAQ	5549 6098	PLQ PLQ	2500 3003	PCQ PCQ	1135 1260	Other Other	0	16416 18428	PQ PQ	28358 28358
CHAPLEAU	19	189	Yes	CAQ	1869	PLQ	415	PCQ	281	QS	263	PQ	243	3071	CAQ	30945
CHARLEVOIX-COTE-DE- BEAUPRE	1	189	No	CAQ	358	QS	117	PQ	77	PCQ	51	PLQ	39	642	CAQ	37216
CHARLEVOIX-COTE-DE- BEAUPRE	21	189	Yes	CAQ	1468	QS	512	PQ	504	PCO	324	PLO	125	2933	CAO	37216
CHAUVEAU	2	205	No	CAQ	450	PCQ	238	QS	50	PQ	46	PLQ	28	812	CAQ	42860
CHOMEDEY CHOMEDEY	1	205 205	No	CAQ	40 1534	PLQ	19 1357	PQ	7 711	PCQ PO	4 339	QS	3 258	73 4199	PLQ PLO	31971 31971
CHOMEDEY	35	205	No	PLQ	2431	CAQ	1628	PCQ PCQ	1331	PQ	414	QS QS	356	6160	PLQ	31971
CHUTES-DE-LA-CHAUDIERE CHUTES-DE-LA-CHAUDIERE	8 25	203 203	No Yes	CAQ	311 1919	PCQ PCQ	131 1057	PQ PQ	52 362	QS QS	32 281	PLQ PLQ	17 184	543 3803	CAQ CAQ	46467 46467
CHUTES-DE-LA-CHAUDIERE DEUX-MONTAGNES	113	203	Yes	CAO	10097	PCO	5975	PQ QS	2447	QS PLQ	1930	PLO	1132	21581	CAO	46467
DEUX-MONTAGNES DRUMMOND-BOIS-FRANCS	6 24	165 177	No Yes	CAQ CAQ	966 3329	PQ PCQ	268 904	QS PQ	189 724	PLQ QS	127 397	PCQ PLQ	122 169	1672 5523	CAQ CAQ	33165 35844
DUBUC	1 32	146 146	No Yes	CAQ	315 5453	PQ PO	55 1326	PCQ PCQ	53 815	QS OS	31 605	PLQ PLQ	9 244	463 8443	CAQ CAO	26581 26581
DUPLESSIS	4	146 158 158	No	QS CAQ	5453 30 2611	CAQ	1326 29	PCQ PCQ PCQ	815 28 1250	PLQ	20	PLQ PQ PLQ	244	8443 117	CAQ CAQ CAQ	26581 19273
DUPLESSIS DUPLESSIS	64 99	158 158	No Yes	CAQ	2611 6174	PQ PQ	1690 3396	PCQ	1250 2248	OS	749 1133	PLQ	328 602	6628 13553	CAQ CAQ	19273 19273
FABRE	10	177	No	CAQ	964	PLQ	553	PCQ	237	QS PQ	216	QS PQ	170	2140	CAQ	33889
FABRE	173	177	No	CAQ	10693 133	PLQ	10395	PCQ PLO	5107	QS OS	3556	PQ	3283	33034 304	CAQ	33889 36076
GOUIN	1	217 147	No	QS	263	PCQ CAQ	63 68	PQ	62 40	PLQ	24 32	PQ PCQ	22 14	417	QS	28188
GOUIN HOCHELAGA-MAISONNEUVE	13 30	147 137	Yes Yes	QS QS	1796 2073	CAQ	494 643	PQ PQ	455 562	PLQ PLQ	225 339	PCQ PCQ	93 221	3063 3838	QS QS	28188 24645
HULL	1	193 193	No	CAQ	40	PLQ	26	PCQ	13	QS PQ	8	Other	8	95	CAQ	31270
HULL HUNTINGDON	27 133	158	No Yes	CAQ	895 9889	PLQ PLQ	814 3466	QS PCQ	664 3270		295 2749	PCQ QS PCQ	292 2579	2960 21953	CAQ CAQ	31270 28588
ILES-DE-LA-MADELEINE ILES-DE-LA-MADELEINE	2 14	53 53	No	PQ CAQ	125 836	CAQ PQ	43 801	QS PLQ	11 145	PLQ	10 114	PCQ PCQ	1 12	190 1908	PQ	8364 8364
ILES-DE-LA-MADELEINE	18	53	No	PQ	1209	CAO	1013	PLO	172	QS QS	145	PCO	21	2560	PQ PQ	8364
ILES-DE-LA-MADELEINE ILES-DE-LA-MADELEINE	32 46	53 53	No Yes	PQ PQ	2320 3515	CAQ	1943 3054	PLQ PLQ	420 560	QS QS	241 362	PCQ PCQ	53 84	4977 7575	PQ PQ	8364 8364
JACQUES-CARTIER	14	163	Yes	PLQ	1777	CAQ	363	PCQ	283	PQ	116	QS	110	2649	PLQ	27071
JEAN-LESAGE JEAN-LESAGE	8 81	161 161	No Yes	QS QS	87 3930	CAQ CAQ	35 2643	PQ PCQ	19 1506	PCQ PQ	12 1140	PLQ PLQ	406	158 9625	QS QS	29737 29737
JEANNE-MANCE-VIGER JOLIETTE	19 24	164 221	Yes No	PLQ CAQ	1790 2153	CAQ PQ	749 1451	PCO	411 439	QS PCQ	317 342	PQ PLQ	193 142	3460 4527	PLQ CAQ	26019 39330
JOLIETTE	24 78	221	No	CAQ	5305	PQ	4054	QS QS	1381	PCQ	1139	PLQ	354	12233	CAQ	39330
JONQUIERE	6 15	160 160	No Yes	CAQ	609 1502	PQ PQ	186 440	PCQ PCQ	66 160	QS	61 127	PLQ	17 91	939 2320	CAQ	30460 30460
JONQUIERE	18	160	Yes	CAQ CAQ	2298	PQ	657	PCQ	264	QS QS	190	PLQ	115	3524	CAQ	30460
JONQUIERE L'ASSOMPTION	151	160 156	Yes Yes	CAQ CAQ	17308 1715	PQ PQ	5602 309	PCQ QS	2771 199	QS PCQ	2461 111	PLQ PLQ	615 94	28757 2428	CAQ CAQ	30460 31790
LA PRAIRIE	2	161	No	CAQ	66	PLQ	22	QS	20	PQ	20	PCQ	10	138	CAQ	34252
LAPORTE	7 122	187 187	No	CAQ PLQ	850 6297	PLQ CAQ	505 6125	QS QS	233 3532	PQ PQ	207 2381	PCQ PCQ	108 1517	1903 19852	CAQ CAQ	32632 32632
LAPORTE LAURIER-DORION	174	187	No	CAQ QS	9758 756	PLQ PLO	9175 603	QS CAO	5352 241	PQ PCO	3809	PCQ	2286 173	30380	CAQ	32632 26182
LAURIER-DORION	15 21	150	No	0.S	1125	PLO	833	CAO	368	PQ	283	PQ PCQ	259	2868	QS QS	26182
LAVAL-DES-RAPIDES LAVAL-DES-RAPIDES	8 144	184 184	No Yes	CAQ	846 8014	PLQ PLQ	443 7524	PQ QS	315 4201	QS PQ	284 3387	PCQ PCQ	121 2292	2009 25418	CAQ CAQ	32832 32832
LEVIS	17	185	No	CAQ	1374	PCQ	234	PLQ	222	PQ	189	QS QS	136	2155	CAQ	36646
LEVIS LOTBINIERE-FRONTENAC	19	185 209	Yes No	CAQ PCQ	1643 292	PCQ CAQ	366 252	PQ PLQ	273 50	PLQ QS	244 40	QS PQ	186	2712 670	CAQ CAQ	36646 41929
LOTBINIERE-FRONTENAC	13	209	No	CAO	1340	PCO	554	PLO	192	QS	179	PQ PLQ	153	2418 401	CAO	41929 41929 37360
LOUIS-HEBERT MARGUERITE-BOURGEOYS	4 40	164 174	No	CAQ PLQ	229 3883	PCQ CAQ	103 3285	PQ PQ	29 817	QS QS QS	22 805	PCQ	18 784	9574	CAQ PLQ	27135
MARIE-VICTORIN	6	151	No	CAQ	587	PQ	321	QS	152	PLQ	92 1071	PCQ	49	1201	CAQ	27177
MARIE-VICTORIN MARQUETTE	57 1	151 157	No	CAQ	4176 85	PQ PLQ	2827 80	QS QS	2155 28	PLQ PQ	1071 27	PCQ PCQ	703 22	10932 242	CAQ PLQ	27177 25442
MARQUETTE	2	157 157	No	CAQ	85 85	PLQ	80	QS QS	28 28	PQ PQ	27	PCQ	22	242	PLQ	25442
MARQUETTE MARQUETTE	41 43	157 157	No No	PLQ PLQ	2510 2693	CAQ	995 1011	PCQ PCQ	583 611	QS QS	473 491	PQ PQ	323 334	4884 5140	PLQ PLQ	25442 25442
MASSON MATANE-MATAPEDIA	151	159 179	Yes Yes	CAQ	17512 1104	PQ CAQ	6156 346	QS PCQ	4309 79	PCQ QS	2850 68	PLQ	2620 37	33447 1634	CAQ	34932 29623
MATANE-MATAPEDIA	81	179	Yes	PQ	9252	CAQ	2328	PCQ	991	QS	548	PLQ	254	13373	PQ	29623
MAURICE-RICHARD MAURICE-RICHARD	5 33	165 165	No	QS QS	330 2398	CAQ	290 2363	PQ PQ	168 1196	PLQ PLQ	141 949	PCQ	33 251	962 7157	QS QS	30793 30793
MAURICE-RICHARD	33	165	No	OS.	2449	CAQ PCQ	2394	PQ PQ PQ	1208	PLQ	996	PCO	251 259	7306	QS CAQ	30793
MEGANTIC MEGANTIC	3 136	149 149	No Yes	CAQ	442 11958	PCQ PCQ	144 5945	PQ PQ	94 3366	QS QS	91 3183	PLQ PLQ	30 1509	801 25961	CAQ CAQ	28009 28009
								,								

Constituency	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	Fourth	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total Votes
MERCIER	37	154	Yes	QS	2299	PLQ	774	PQ	646	CAQ	557	PCQ	185	4461	QS	26443
MILLE-ILES MILLE-ILES	10 144	149 149	No	CAQ PLQ	1495 9140	PLQ CAQ	967 8535	PQ QS	544 3496	PCQ PQ	347 3357	QS PCQ	334 2996	3687 27524	PLQ PLQ	29064 29064
MONT-ROYAL-OUTREMONT MONT-ROYAL-OUTREMONT	16 21	208 208	No	PLQ PLQ	74 74	QS QS	15 15	PCQ PCQ	10 10	CAQ	5	PQ PQ	2	106 106	PLQ PLQ	28250 28250
MONT-ROYAL-OUTREMONT	30	208	No	PLQ	462	OS	208	CAQ	145	PQ	136	PCQ	61	1012	PLQ	28250
MONT-ROYAL-OUTREMONT NELLIGAN	42 15	208 182	Yes Yes	PLQ PLQ	1111 2057	QS CAQ	407 937	CAQ PCQ	385 540	PQ PQ	269 233	PCQ QS PQ	202 211	2374 3978	PLQ PLQ	28250 31264
NOTRE-DAME-DE-GRACE PONTIAC	16	159	Yes	PLQ	1989 80	QS PCQ	508 27	CAQ CAQ	355 12	PCQ Other	256 11	PQ Other	239 7	3347	PLQ	22550 27473
PONTIAC PONTIAC	10	187	No	PLQ	660	PCQ CAQ	134 353	CAQ PCQ	83	Other	58 92	Other	20	955	PLQ	27473 27473
PREVOST	20 26	187 165	Yes No	PLQ CAQ	1192 1459	PO	687	OS.	262 597	QS PCQ	390	Other PLQ	72 246	1971 3379	PLQ CAQ	33927
RENE-LEVESQUE RENE-LEVESQUE	27 48	121 121	No Yes	CAQ	2016 4183	PQ PQ	830 1534	PCQ PCQ	378 737	QS QS	308 550	PLQ PLQ	59 119	3591 7123	CAQ CAQ	19185 19185
RIMOUSKI ROBERT-BALDWIN	135 21	167 174	No Yes	CAQ	8996 3415	PQ CAO	6695 882	QS PCO	4767 777	PCQ OS	1065 280	PLO	624 227	22147 5581	CAQ	32801 27645
ROSEMONT	1	186	No	CAQ	200	OS	161	PQ	135	PLO	48	PQ Other	21	565	QS	34770
ROSEMONT ROSEMONT	24 35	186 186	No No	QS QS	2060 3032	CAQ	1718 2157	PQ PQ	1360 1824	PLQ PLQ	547 725	PCQ PCQ	206 300	5891 8038	QS QS	34770 34770
ROSEMONT ROSEMONT	61 67	186 186	No Yes	QS QS	4880 5329	CAQ CAQ	3360 3497	PQ PQ	3025 3223	PLQ PLQ	1352 1473	PCQ PCQ	534 576	13151 14098	QS QS	34770 34770
ROUSSEAU ROUYN-NORANDA-	9	157	Yes	CAQ	1012	PQ	330	PCQ	180	QS	132	PLQ	46	1700	CAQ	27912
TEMISCAMINGUE	38	166	No	CAQ	2497	QS	1565	PQ	563	PCQ	506	PLQ	385	5516	CAQ	28554
ROUYN-NORANDA- TEMISCAMINGUE	83	166	No	CAQ	5521	QS	3872	PQ	1403	PCQ	1124	PLQ	666	12586	CAQ	28554
ROUYN-NORANDA- TEMISCAMINGUE	86	166	Yes	CAQ	5687	QS	3990	PQ	1449	PCQ	1159	PLQ	678	12963	CAQ	28554
ROUYN-NORANDA-	132	166	Yes	CAQ	10187	QS	6822	PQ	2551	PCQ	1849	PLQ	1005	22414	CAQ	28554
TEMISCAMINGUE SAINT-FRANCOIS	1	205	No	CAQ	67	PCQ	28	QS	23	PQ	15	PLQ	6	139	CAQ	40186
SAINT-FRANCOIS SAINT-FRANCOIS	6 94	205	No	CAQ	335 7519	QS QS	220 4851	PLQ PCQ	194 1832	PCQ	98 1549	PQ PLQ	66 1514	913 17265	CAQ	40186
SAINT-HENRI-SAINTE-ANNE	1	197	No	PLQ	49	QS	29	Other	4	CAQ	3	PQ	3	88	PLQ	31217
SAINT-HENRI-SAINTE-ANNE SAINT-HENRI-SAINTE-ANNE	123 171	197 197	Yes Yes	PLQ PLQ	7554 10352	QS QS	5976 7906	CAQ CAQ	3864 5080	PQ PQ	1792 2384	PCQ PCQ	1257 1830	20443 27552	PLQ PLQ	31217 31217
SAINT-JEAN SAINT-LAURENT	197	215 192	Yes No	CAQ	18739 339	PQ PCO	7239 88	QS CAQ	5495 72	PCQ	3168 48	PLQ PO	2235 21	36876 568	CAQ	42484 26904
SAINT-LAURENT	16	192	Yes	PLQ	963	PCQ	281	CAQ	220	QS	190	PQ	96	1750	PLQ	26904
SAINTE-MARIE-SAINT- JACQUES	1	158	No	QS	152	PQ	125	CAQ	86	PLQ	52	PCQ	18	433	QS	22281
SAINTE-MARIE-SAINT- JACQUES	17	158	Yes	QS	878	PQ	363	CAQ	307	PLQ	292	PCQ	100	1940	QS	22281
SAINTE-ROSE SAINTE-ROSE	28 166	182 182	Yes Yes	CAQ CAQ	3730 13267	PLQ PLQ	1432 8018	PQ QS	868 4606	QS PQ	718 4210	PCQ PCQ	513 3162	7261 33263	CAQ	36077 36077
SHERBROOKE	75	186	No	QS	4834	CAQ	3219	PQ	988	PCQ	835	PLQ	570	10446	QS	36664
SHERBROOKE SOULANGES	121 183	186 199	No Yes	QS CAQ	8763 14989	CAQ PLQ	7692 8187	PQ PCQ	2001 4633	PCQ QS	1579 3858	PLQ PQ	1229 3665	21264 35332	QS CAQ	36664 39358
TASCHEREAU TROIS-RIVIERES	42 20	178 191	Yes Yes	QS CAQ	2534 1096	PQ QS	1329 188	CAQ PQ	1298 180	PCQ PCQ	560 156	PLQ PLQ	346 84	6067 1704	QS CAQ	33919 36859
TROIS-RIVIERES	62 2	191	Yes No	CAO	4812	OS	1212	PO	1116	PCO	985	PLO	529	8654	CAO	36859
UNGAVA UNGAVA	10	111 111	No	CAQ	30 136	PLQ PQ	26 48	PCQ PLQ	5 33	PQ PCQ	4 29	QS QS	2 26	67 272	CAQ CAQ	8635 8635
UNGAVA VANIER-LES RIVIERES	86 199	111 203	No Yes	CAQ CAQ	2477 20142	QS PCQ	1450 8291	PQ PQ	837 5550	PLQ QS	812 4990	PCQ PLQ	625 2651	6201 41624	CAQ CAQ	8635 43222
VERDUN VERDUN	8	162 162	No	PLQ	264 304	OS	217 265	CAQ	199	PO	72	PCQ	36 40	788	QS QS	30068 30068
VERDUN	40	162	No	PLQ	1620	QS QS	1539	CAQ	218 1123	PQ PQ	403	PCQ	349	5034	QS	30068
VERDUN VERDUN	121 135	162 162	No	QS QS	6378 6672	PLQ PLO	5319 6508	CAQ CAO	3749 4625	PQ PO	1500 1726	PCQ	1140 1282	18086 20813	QS OS	30068 30068
VERDUN VERDUN	136 142	162 162	No No	QS PLQ	6905 7303	PLQ QS	6596 7082	CAQ	4718 5323	PQ PQ	1752 1981	PCQ PCQ	1295 1386	21266 23075	QS QS QS	30068 30068
VERDUN	152	162	No	PLQ	8267	0S	8168 1074	CAQ	6363	PQ	2334	PCQ	1522	26654 3898	QS PLO	30068
VIMONT	16 18	132 153	No	PLQ PLQ	1440 1122	QS CAQ	808	CAQ PCQ	814 511	PQ QS	358 346	PCQ PQ	212 279	3066	CAO	31664
VIMONT VIMONT	64 147	153 153	No Yes	CAQ CAQ	4170 10660	PLQ PLQ	4160 9294	PCQ PCQ	1754 4034	QS QS	1458 3462	PQ PQ	1342 3263	12884 30713	CAQ CAQ	31664 31664
WESTMOUNT-SAINT-LOUIS ABITIBI BAIE JAMES	2	178	No	PLQ	20	PCQ	11	QS	6	CAQ	3	Other	2	42	PLQ	18572
NUNAVIK EEYOU	10	197	False	BQ	239	LPC	223	CPC	141	NDP	107	Other	0	710	BQ	31656
ABITIBI BAIE JAMES NUNAVIK EEYOU	110	197	False	BQ	6529	LPC	4608	CPC	3043	NDP	1814	Other	0	15994	BQ	31656
ABITIBI TEMISCAMINGUE ABITIBI TEMISCAMINGUE	1 15	270 270	False	BQ BQ	38 702	CPC LPC	19 457	LPC CPC	16 303	GPC NDP	13 196	Other Other	0	86 1658	BQ BQ	50155 50155
ABITIBI TEMISCAMINGUE ABITIBI TEMISCAMINGUE AHUNTSIC CARTIERVILLE	75	270	False	BQ	4673	LPC	2695	CPC	1792	NDP	1326	Other	0	10486	BQ LPC	50155 55111
AVALON	1 25	231 213	False	LPC LPC	22 1316	BQ CPC	2 889	NDP	1 258	GPC GPC	1 130	Other Other	0	26 2593	LPC	41334
BEAUCE	7 65	242 242	False	CPC CPC	762 7919	PPC	521 5789	BQ BQ	354 2836	LPC LPC	243 2440	Other Other	0	1880 18984	CPC CPC	59429 59429
BEAUCE BEAUPORT COTE DE	205	242	False	CPC	19871	PPC	14576	BQ	7079	LPC	5813	Other	0	47339	CPC	59429
BEAUPRE ILE D'ORLEANS	1	246	False	BQ	184	LPC	70	CPC	62	NDP	12	Other	0	328	BQ	50635
CHARLEVOIX BEAUPORT LIMOILOU	130	200	False	BQ	7556	LPC	6478	CPC	6340	NDP	2963	Other	0	23337	BQ	50191
BEAUSEJOUR BEAUSEJOUR	1 5	221 221	False False	LPC	474 661	GPC GPC	168 319	CPC CPC	136 229	NDP NDP	39 86	Other Other	0	817 1295	LPC	53685 53685
BEAUSEJOUR BECANCOUR NICOLET	30	221	False	LPC	2086	GPC	1472	CPC	778	NDP	282	Other	0	4618	LPC	53685
SAUREL	1	237	False	BQ	36	LPC	27	CPC	4	NDP	0	Other	0	67	BQ	52337
BELOEIL CHAMBLY BELOEIL CHAMBLY	1 12	270 270	False False	BQ BQ	239 1527	LPC LPC	88 821	NDP NDP	77 409	CPC CPC	27 269	Other Other	0	431 3026	BQ BQ	69490 69490
BELOEIL CHAMBLY BERTHIER MASKINONGE	27	270 273	False	BQ LPC	3359 10	LPC BO	1646	NDP CPC	974	CPC	481	Other	0	6460 20	BQ BO	69490 56354
BERTHIER MASKINONGE	3	273	False	NDP	124	BQ	8 76	LPC	38	CPC	19	Other	0	257	ВQ	56354
BERTHIER MASKINONGE BERTHIER MASKINONGE	215 221	273 273	False	BQ BQ	13673 14315	NDP NDP	12734 13946	LPC	5060 5440	CPC CPC	3581 3972	Other Other	0	35048 37673	BQ BQ	56354 56354
BERTHIER MASKINONGE BERTHIER MASKINONGE	248 253	273 273	False	BQ BQ	17864 18413	NDP NDP	17069 17424	LPC	6642 6836	CPC	4896 5028	Other Other	0	46471 47701	BQ BQ	56354 56354
BONAVISTA BURIN TRINITY	253 90	260	False	LPC	3790	CPC	3058	NDP	842	GPC	258	Other	0	7948	LPC	32179
BROME MISSISQUOI BROME MISSISQUOI	1 18	266 266	False	BQ BQ	98 1034	LPC	78 948	CPC CPC	53 458	GPC NDP	20 225	Other Other	0	249 2665	LPC	61441 61441
BROME MISSISQUOI BROME MISSISQUOI	125 202	266 266	False	LPC	7640 15444	BQ BQ	7271 13813	CPC	2788 4944	NDP NDP	1842 3270	Other Other	0	19541 37471	LPC	61441 61441
BURNABY SUD	73 75	192	False	NDP	4536	CPC	3826	LPC	2993	GPC	714	Other	0	12069	NDP	45006
BURNABY SUD CAPE BRETON CANSO	2	192 216	False	NDP CPC	4627 120	CPC LPC	3900 117	LPC NDP	3047 67	GPC GPC	730 21	Other Other	0	12304 325	NDP LPC	45006 42940
CAPE BRETON CANSO CARDIGAN	90 6	216 90	False	LPC	5961 1307	CPC	5522 796	NDP	2307 359	GPC NDP	1278 139	Other	0	15068	LPC	42940 22167
CARDIGAN CARDIGAN CHARLESBOURG HAUTE	12	90	False	LPC	1687	CPC	1021	GPC	453	NDP	185	Other	ŏ	3346	LPC	22167
SAINT CHARLES	20	229	False	CPC	1053	BQ	735	LPC	557	NDP	252	Other	0	2597	CPC	59096

Constituency	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	Fourth	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total Votes
CHARLESBOURG HAUTE	40	229	False	CPC	2324	BQ	1541	LPC	1287	NDP	542	Other	0	5694	CPC	59096
SAINT CHARLES CHARLOTTETOWN	40	225	False	LPC	38	CPC	31	GPC	1287	NDP	3	Other	0	83	LPC	19910
CHATEAUGUAY LACOLLE	12	220	False	LPC	663	BQ	467	CPC	184	NDP	54	Other	0	1368	LPC	52402
CHATEAUGUAY LACOLLE CHATEAUGUAY LACOLLE	201 210	220 220	False	LPC	17860 19262	BQ BQ	16900 18643	CPC CPC	5217 5638	NDP NDP	3473 3764	Other Other	0	43450 47307	LPC	52402 52402
COAST OF BAYS CENTRAL	40	220	False	LPC	19202	CPC	1222	NDP	307	GPC	114	Other	0	3546	LPC	34182
NOTRE DAME COMPTON STANSTEAD	170	269	False	LPC	11404	BQ	9539	CPC	4449	NDP	3035	Other	0	28427	LPC	58237
COMPTON STANSTEAD	215	269	False	LPC	15510	BQ	13331	CPC	6169	NDP	4016	Other	0	39026	LPC	58237
CUMBERLAND COLCHESTER CUMBERLAND COLCHESTER	1	221 220	False	CPC LPC	43 5728	LPC	27 5547	NDP	13 2041	GPC NDP	0 1879	Other	0	83 15195	LPC	45450 45450
DARTMOUTH COLE	102	198	False	NDP	71	LPC	69	CPC	2041	GPC	23	Other	0	191	LPC	53499
HARBOUR DRUMMOND	2	241	False	BQ	185	CPC	70	LPC	64	NDP	54	Other	0	373	BQ	54824
DRUMMOND	115	241 241	False	BQ	10074	LPC	3970	CPC	3563	NDP	3496	Other	0	21103	BQ	54824
EGMONT FREDERICTON	1 10	90 158	False	CPC CPC	41 523	LPC GPC	30 511	GPC LPC	18 451	NDP NDP	6 73	Other Other	0	95 1558	LPC GPC	20178 49409
FREDERICTON	15	158	False	GPC	806	CPC	719	LPC	677	NDP	120	Other	0	2322	GPC	49409
FREDERICTON	52 133	158 158	False	GPC GPC	3870 11665	CPC	3290 10265	LPC	2961 9340	NDP	120 714 2087	Other	0	10835 33357	GPC GPC	49409 49409
FREDERICTON FUNDY ROYAL	133	158 198	False	CPC	11665 66	LPC	40	GPC	9340 20	Other	2087	Other	0	33357	CPC	49409 48646
FUNDY ROYAL GASPESIE LES ILES DE LA	25	198	False	CPC	1723	LPC	1015	GPC	591	NDP	374	Other	0	3703	CPC	48646
MADELEINE	2	214	False	BQ	122	LPC	108	CPC	23	NDP	10	Other	0	263	LPC	38380
GASPESIE LES ILES DE LA	10	214	False	BQ	871	LPC	869	CPC	218	NDP	59	Other	0	2017	LPC	38380
MADELEINE GASPESIE LES ILES DE LA																
MADELEINE	25	214	False	BQ	1899	LPC	1636	CPC	383	NDP	123	Other	0	4041	LPC	38380
GASPESIE LES ILES DE LA MADELEINE	140	214	False	BQ	9173	LPC	9134	CPC	1753	NDP	890	Other	0	20950	LPC	38380
GASPESIE LES ILES DE LA	189	214	False	LPC	13719	BQ	13371	CPC	2643	NDP	1398	Other	0	31131	LPC	38380
MADELEINE GASPESIE LES ILES DE LA													U			
MADELEINE	207	214	False	LPC	14595	BQ	14503	CPC	2780	NDP	1504	Other	0	33382	LPC	38380
GASPESIE LES ILES DE LA	212	214	False	LPC	16093	BQ	15464	CPC	2993	NDP	1640	Other	0	36190	LPC	38380
MADELEINE HALIFAX OUEST	30	225	False	LPC	2190	NDP	897	CPC	851	GPC	567	Other	0	4505	LPC	54357
HOCHELAGA	35	219	False	LPC	2235	BQ	1865	NDP	1137	CPC	318	Other	ő	5555	LPC	53037
HOCHELAGA	70 140	219 219	False	LPC	5003 9850	BQ BO	4224 8717	NDP	2932 5933	CPC CPC	660 1305	Other Other	0	12819 25805	LPC	53037 53037
HONORE MERCIER	1	209	False	LPC	56	BQ	26	CPC	14	NDP	6	Other	0	102	LPC	50363
HONORE MERCIER JOLIETTE	25	209 271	False False	LPC BQ	3136 264	BQ LPC	1335 72	CPC CPC	481 38	NDP	408 24	Other Other	0	5360 398	LPC BQ	50363 57699
JONOUIERE	1	210	False	BQ	108	CPC	94	NDP	54	LPC	47	Other	0	303	BQ	49367
JONQUIERE	2	210	False	BQ	216	CPC	177	NDP	105	LPC	94	Other	0	592	BQ	49367
JONQUIERE	15 55	210 210	False	BQ BO	1077 4693	NDP	620 3150	CPC CPC	614 2613	LPC	568 2239	Other	0	2879 12695	BQ BO	49367 49367
LA POINTE DE L'ILE	10	243	False	BQ	1025	LPC	596 12731	NDP	210	CPC	147	Other	õ	1978	BQ	55534
LA PRAIRIE LABRADOR	119 25	204 90	False	BQ LPC	15166 896	LPC CPC	12731 474	CPC NDP	3010 330	NDP GPC	2872 30	Other Other	0	33779 1730	BQ LPC	61553 11419
LAC SAINT JEAN	1	267 267	False	BO	72	CPC	20	LPC	17	NDP	4	Other	ő	113	BO	54227
LAC SAINT JEAN LAC SAINT JEAN	60 80	267 267	False	BQ BO	4543 6212	LPC	2355 3234	CPC	2325 3117	NDP	546 717	Other Other	0	9769 13280	BQ BQ	54227 54227
LASALLE EMARD VERDUN	95	203	False	LPC	10547	BQ	5805	NDP	3521	CPC	1941	Other	0	21814	LPC	52391
LAURENTIDES LABELLE	5	284 174	False	BQ	208	LPC	198	CPC CPC	49	NDP	22	Other	0	477	BQ	65406
LAURIER SAINTE MARIE LAURIER SAINTE MARIE	2	174	False	BQ LPC	108 641	BQ	95 550	NDP	13 178	NDP CPC	51	Other	0	216 1420	LPC	53409 53409
LAURIER SAINTE MARIE	19	174 174	False	LPC	1687	BQ	979	NDP	727	GPC	156	Other	0	3549	LPC	53409
LAURIER SAINTE MARIE LONG RANGE MOUNTAINS	30 35	174 250	False	LPC	2829 1543	BQ CPC	1599 1025	NDP	1549 494	GPC GPC	335 115	Other Other	0	6312 3177	LPC	53409 38426
LONGUEUIL CHARLES	20	230	False	BQ	1193	LPC	1142	NDP	291	CPC	208	Other	0	2834	LPC	51544
LEMOYNE LONGUEUIL CHARLES													0			
LEMOYNE	196	230	False	LPC	15988	BQ	15053	NDP	4333	CPC	2986	Other	0	38360	LPC	51544
LONGUEUIL SAINT HUBERT	1	226	False	LPC	18	BQ	12	GPC	3	NDP	1	Other Other	0	34	BQ	59844 62060
LOUIS HEBERT LOUIS HEBERT	15	225 225	False	LPC	42 851	CPC BQ	15 422	BQ CPC	276	GPC NDP	115	Other	0	1664	LPC LPC	62060
LOUIS SAINT LAURENT LOUIS SAINT LAURENT	5 24	255 255	False	CPC CPC	224 1557	BQ BO	140 871	LPC	125 811	NDP	19 288	Other	0	508 3527	CPC CPC	65561 65561
LOUIS SAINT LAURENT LOUIS SAINT LAURENT	40	255	False	CPC	2895	BQ	1582	LPC	1561	NDP	288	Other	0	6568	CPC	65561
MARKHAM STOUFFVILLE	20 40	238	False	LPC	1441	CPC	1326	Other	906	NDP	222 516	Other	0	3895	LPC	64388
MARKHAM STOUFFVILLE MARKHAM STOUFFVILLE	40	238 238	False	LPC	3388 15374	CPC	2952 12358	Other	2164 9079	NDP	516 2468	Other Other	0	9020 39279	LPC	64388 64388
MIRAMICHI GRAND LAKE	1	163	False	CPC	22	LPC	19	NDP	7	GPC	4	Other	0	52	LPC	34598
MIRAMICHI GRAND LAKE MIRAMICHI GRAND LAKE	16 65	163 163	False	CPC CPC	1021 3677	LPC LPC	711 3641	GPC GPC	233 1123	NDP NDP	189 754	Other Other	0	2154 9195	LPC LPC	34598 34598
MISSION MATSQUI FRASER	1	179	False	CPC	51	NDP	28	GPC	27	LPC	25	Other	0	131	CPC	46066
CANYON MONCTON RIVERVIEW																
DIEPPE	5	191	False	LPC	630	GPC	326	CPC	292	NDP	152	Other	0	1400	LPC	51828
MONCTON RIVERVIEW DIEPPE	25	191	False	LPC	1972	CPC	948	GPC	838	NDP	517	Other	0	4275	LPC	51828
MONCTON RIVERVIEW	50	191	False	LPC	3736	CPC	2032	GPC	1607	NDP	1128	Other	0	8503	LPC	51828
DIEPPE MONTARVILLE	10	211	False	BQ	3736 620	LPC	2032 525	NDP	1607	CPC	1128		U	1364	BQ	51828
MONTARVILLE	25	211	False	BQ BQ	1805	LPC	1498	NDP	341	CPC	316	Other Other	0	3960	BQ BQ	59228
MONTARVILLE NANAIMO LADYSMITH	105	211 256	False	BQ	8643 1004	LPC	7534 783	NDP	1911	CPC	1408	Other	0	19496	BQ	59228 71864
NANAIMO LADYSMITH	6 27	256 256	False	GPC GPC	1004 2178	CPC CPC	783 1877	NDP NDP	683 1402	LPC	319 872	Other Other	0	2789 6329	GPC GPC	71864 71864
NOTRE DAME DE GRACE	70	206	False	LPC	6466	NDP	1817	CPC	1497	GPC	1089	Other	0	10869	LPC	50321
WESTMOUNT NOUVEAU BRUNSWICK SUD																
OUEST	35	180	False	CPC	2981	LPC	1756	GPC	731	NDP	368	Other	0	5836	CPC	39578
NOVA CENTRE NOVA CENTRE	5 145	230	False	LPC	107 9866	CPC CPC	46 6360	GPC NDP	32 2894	NDP	24	Other	0	209 20615	LPC	44470
NOVA OUEST	50	229	False	CPC	3383	LPC	2668	GPC	840	GPC NDP	1495 763	Other	0	7654	CPC	46798
NOVA OUEST	155	229	False	CPC	11774	LPC	10457	GPC	3507	NDP	2989	Other	0	28727	CPC	46798
OTTAWA CENTRE PAPINEAU	70 1	250 197	False	LPC	7127 132	NDP NDP	4604 20	CPC BQ	1991 14	GPC CPC	1112 12	Other Other	0	14834 178	LPC	78902 50781
PAPINEAU	22	197	False	LPC	2017	NDP	20 775	BQ	544	GPC	355	Other	õ	3691	LPC	50781
PIERRE BOUCHER LES PATRIOTES VERCHERES	1	227	False	LPC	21	BQ	16	GPC	2	PPC	2	Other	0	41	BQ	60783
QUEBEC	10	227	False	LPC	394	BQ	186	CPC	86	NDP	13	Other	0	679	LPC	54198
QUEBEC QUEBEC	160 216	227 227	False False	LPC LPC	9492 14842	BQ BQ	8723 14394	CPC CPC	4080 6867	NDP NDP	3350 5380	Other Other	0	25645 41483	LPC LPC	54198 54198
QUEBEC	216 224	227	False	LPC	14842 17014	BO	16867	CPC	7869	NDP	5897	Other	0	47647	LPC	54198
REGINA QU'APPELLE	1 19	167	False	CPC	91	LPC	11 496	NDP	10 408	GPC	1 84	Other	0	113	CPC	38755 38755
REGINA QU'APPELLE REGINA WASCANA	19	167 141	False	CPC	1364 829	LPC	638	NDP	235	GPC GPC	56	Other Other	0	2352 1758	CPC	45355
REGINA WASCANA	98	141	False	CPC	10928	LPC	7332	NDP	3016	GPC	664	Other	0	21940	CPC	45355
RICHMOND ARTHABASKA	1	270	False	LPC	74	CPC	42	BQ	31	PPC	5	Other	0	152	CPC	58638

Constituency	Boxes Counted	Total Boxes	R-C Elected	First	First Count	Second	Second Count	Third	Third Count	Fourth	Fourth Count	Fifth	Fifth Count	Total Votes	End Winner	End Total Votes
RICHMOND ARTHABASKA	5	270	False	CPC	266	BQ	194	LPC	181	GPC	48	Other	0	689	CPC	58638
RICHMOND ARTHABASKA	25	270	False	CPC	1433	BQ	913	LPC	727	GPC	192	Other	0	3265	CPC	58638
RICHMOND ARTHABASKA	45	270	False	CPC	2979	BQ	1850	LPC	1152	GPC	369	Other	0	6350	CPC	58638
RIMOUSKI NEIGETTE	1	220	False	LPC	33	BQ	13	CPC	9	NDP	4	Other	0	59	BQ	45767
FEMISCOUATA LES BASQUES	1	220	Faise	LFC	33	ЪQ	13	CrC	5	NDF	4	Other	0	55	ЪQ	43101
RIMOUSKI NEIGETTE	145	220	False	BQ	10266	NDP	7719	LPC	5853	CPC	2123	Other	0	25961	BQ	45767
TEMISCOUATA LES BASQUES													-			
RIVIERE DES MILLE ILES	150	227	False	BQ	11570	LPC	10360	NDP	2558	CPC	2278	Other	0	26766	BQ	58184
RIVIERE DU NORD	30	272	False	BQ	2021	LPC	1003	CPC	453	NDP	332	Other	0	3809	BQ	60101
RIVIERE DU NORD	90	272	False	BQ	7177	LPC	3087	CPC	1634	NDP	1109	Other	0	13007	BQ	60101
ROSEMONT LA PETITE	1	223	False	LPC	30	BQ	5	NDP	4	Other	2	Other	0	41	NDP	60206
PATRIE ROSEMONT LA PETITE																
PATRIE	11	223	False	NDP	1192	LPC	613	BQ	589	GPC	168	Other	0	2562	NDP	60206
ROSEMONT LA PETITE																
PATRIE	75	223	False	NDP	7697	LPC	4425	BQ	4291	GPC	1088	Other	0	17501	NDP	60206
SAANICH GULF ISLANDS	2	238	False	GPC	88	LPC	58	CPC	54	NDP	18	Other	0	218	GPC	68150
SAANICH GULF ISLANDS SAANICH GULF ISLANDS	35	238	False	GPC	2844	CPC	1245	LPC	1080	NDP	701	Other	0	218 5870	GPC	68150
SAINT HYACINTHE BAGOT	1	238	False	BO	118	LPC	1245	CPC	45	NDP	43	Other	0	256	BO	55914
SAINT HYACINTHE BAGOT	55	247	False	BQ	4607	LPC	2363	NDP	45 1995	CPC	1708	Other	0	10673	BQ	55914
SAINT JEAN	80	256	False	BQ	12864	LPC	2000	CPC	3136	NDP	1952	Other	0	27049	BO	61875
SAINT JOHN ROTHESAY	3	170	False	LPC	116	CPC	79	GPC	19	NDP	18	Other	0	232	LPC	41253
AINT MAURICE CHAMPLAIN	5	281	False	LPC	238	BO	144	CPC	55	PPC	14	Other	0	451	LPC	58414
AINT MAURICE CHAMPLAIN	210	281	False	LPC	12930	BO	11812	CPC	5629	NDP	1910	Other	ő	32281	LPC	58414
SALABERRY SUROIT	90	286	False	BO	13573	LPC	8830	CPC	2864	NDP	2126	Other	ő	27393	BO	62903
SHEFFORD	220	271	False	BQ	17216	LPC	16266	CPC	5348	NDP	2744	Other	ő	41574	BQ	60913
SHEFFORD	268	271	False	BO	22752	LPC	21647	CPC	7245	NDP	3559	Other	ő	55203	BO	60913
SHERBROOKE	95	261	False	LPC	4151	NDP	3607	BO	3227	CPC	1307	Other	ő	12292	LPC	59726
SHERBROOKE	145	261	False	LPC	6422	NDP	6210	BO	5349	CPC	2056	Other	ö	20037	LPC	59726
SHERBROOKE	204	261	False	NDP	10072	LPC	10014	BO	8923	CPC	3462	Other	0	32471	LPC	59726
SHERBROOKE	220	261	False	LPC	11291	NDP	11105	BQ	9823	CPC	3830	Other	0	36049	LPC	59726
SHERBROOKE	255	261	False	LPC	15845	NDP	15338	BQ	14007	CPC	5689	Other	0	50879	LPC	59726
SOUTH SHORE ST.																
MARGARETS	5	260	False	CPC	170	LPC	153	NDP	52	GPC	25	Other	0	400	LPC	52518
SOUTH SHORE ST.																
MARGARETS	100	260	False	LPC	7974	CPC	5458	NDP	3081	GPC	2156	Other	0	18669	LPC	52518
ST. JOHN'S EST	1	182	False	NDP	50	CPC	41	LPC	29	GPC	1	Other	0	121	NDP	45072
ST. JOHN'S EST	15	182	False	NDP	1145	LPC	867	CPC	536	GPC	42	Other	0	2590	NDP	45072
ST. JOHN'S EST	50	182	False	NDP	4454	LPC	3148	CPC	1757	GPC	157	Other	0	9516	NDP	45072
ST. JOHN'S SUD MOUNT	29	185	False	LPC	2567	NDP	1650	CPC	786	GPC	90	Other	0	5093	LPC	40666
PEARL	29	192	raise	LPC	2007	NDP	1050	CPC	180	GPC	90	Other	0	0093	LPC	40666
ST. JOHN'S SUD MOUNT	30	185	False	LPC	2816	NDP	1743	CPC	895	GPC	96	Other	0	5550	LPC	40666
PEARL													-			
SYDNEY VICTORIA	130	196	False	CPC	7193	LPC	7048	NDP	5053	Other	3962	Other	0	23256	LPC	40565
TOBIQUE MACTAQUAC	1	184	False	CPC	17	LPC	10	GPC	4	NDP	1	Other	0	32	CPC	38201
TOBIQUE MACTAQUAC	30	184	False	CPC	2273	LPC	819	GPC	460	NDP	261	Other	0	3813	CPC	38201
TORONTO CENTRE	95	257	False	LPC	7748	NDP	3261	CPC	1665	GPC	959	Other	0	13633	LPC	54512
TROIS RIVIERES	23	260	False	BQ	777	LPC	710	CPC	687	NDP	389	Other	0	2563	BQ	60538
TROIS RIVIERES	125	260	False	BQ	5083	LPC	4980	CPC	4624	NDP	2991	Other	0	17678	BQ	60538
TROIS RIVIERES	220	260	False	BQ	12871	LPC	12011	CPC	11554	NDP	7536	Other	0	43972	BQ	60538
UNIVERSITY ROSEDALE	27	207	False	LPC	2534	CPC	925	NDP	856	GPC	357	Other	0	4672	LPC	57391
VANCOUVER GRANVILLE	8	205	False	LPC	189	Other	116	NDP	98	CPC	85	Other	0	488	Ind	53032
VANCOUVER GRANVILLE	50	205	False	Other	1959	CPC	1942	LPC	1836	NDP	1086	Other	0	6823	Ind	53032
VANCOUVER GRANVILLE	77	205	False	Other	3300	CPC	3149	LPC	3025	NDP	1675	Other	0	11149	Ind	53032
VANCOUVER GRANVILLE	175	205	False	Other	9749	LPC	8361	CPC	7100	NDP	4646	Other	0	29856	Ind	53032
WINNIPEG CENTRE	85	175	False	GPC	8606	NDP	4976	LPC	4474	CPC	2435	Other	0	20491	NDP	31724