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Settlement of the Canadian West

Chris Minns

Department of Economics and IIS,
Trinity College Dublin

Mary MacKinnon,

Department of Economics,
McGill University

Alan Green,

Department of Economics,
Queen's University



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Alan Green,
Department of Economics,
Queen's University,

Mary MacKinnon,
Department of Economics,
McGill University,

Chris Minns,
Department of Economics and IIS,
Trinity College, Dublin

(Address for Correspondence: Mary MacKinnon, Department of Economics, McGill University,
855 Sherbrooke St. W., Montreal, Quebec, Canada, H3A 2T7.)

Email:

mary.mackinnon@mcgill.ca
green@qed.econ.queensu.ca
minnsc@tcd.ie

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Conspicuous by their Absence: French Canadians and the Settlement of the Canadian West

Abstract: The failure of French Canadians to settle the Canadian west before 1900, when substantial numbers of anglophones and Europeans were migrating, is a long-standing puzzle. Historians have relied mainly on cultural differences to explain it. Using new individual-level data, we demonstrate that anglophones and francophones had very different personal characteristics, so that movement to the west was rarely economically attractive for francophones. However, large-scale migration into New England fitted French Canadians' demographic and human capital profile. Even if the United States had imposed immigration restrictions by the 1880s, this would not likely have diverted many French Canadians westward.

Introduction

The almost complete absence of French Canadians among settlers of Western Canada at the end of the nineteenth century is striking. Had there been a substantial flow of francophone internal migrants to the Prairies and the Pacific coast, there would have been a significant francophone presence in 1914, instead of a proportionately shrinking minority in Manitoba, and only scattered pockets of French-speaking settlers elsewhere. This is one of the great might-have-beens of Canadian history. Without much of a base established by the beginning of the twentieth century, there was little possibility for later chain migration of French Canadians to the West. By contrast, migrants from anglophone Canada, the U.K., the U.S., and parts of continental Europe, had put networks into place by 1900.

At the time of Confederation (1867), virtually all of Canada's population was located between the Atlantic Ocean and Lake Erie. By the early 1870s, control of all British territory west to the Pacific Ocean had passed to the new dominion, but the European-origin population

remained almost entirely in the east. Western settlement, particularly of the Prairies, was very limited until the mid 1890s, and then accelerated rapidly during the Wheat Boom.¹ In 1871, the total population of western Canada was only about 110,000, by 1891 about 350,000, with those of European origin highly concentrated in Manitoba and British Columbia. The population nearly doubled in the next decade, rising to almost 650,000, and more than doubled (to 1.75 million) between 1901 and 1911.² Westerners were less than 3 percent of the total Canadian population in 1871, almost a quarter in 1911.

Regional divisions in language and ethnicity have had a tremendous impact on a wide range of Canadian institutions, fuelling bitter disputes over language policies, the appropriate degree of centralization of political decision-making, and at least since 1960, the desirability of Canada remaining as a single nation-state. As total population increased and its regional composition shifted westward, the political weight of Canada's French Canadian minority diminished. In 1867, Quebec was the only predominantly French-speaking province, but it was one province out of four. From 1905, the year when Alberta and Saskatchewan were separated from the North West Territories, Quebec was still the only predominantly French-speaking province, and it was one province out of nine.³

Despite the establishment of some French Canadian settlements in Manitoba prior to the 1860s, only about 5 percent of the white population of western Canada in 1901 spoke French as

¹ Norrie, "Rate of Settlement".

² Probably less than 20 percent of the population in western Canada in 1871 was of European origin (Urquhart and Buckley, *Historical Statistics*, p. 4). Population data from series A2-14.

³ Manitoba became a province in 1870, British Columbia in 1871.

their mother tongue. About 15 percent reported another continental European language (mainly German, a Scandinavian language, or Russian). This pattern continued during the great wave of settlement up to 1914. Without a substantial minority of francophone voters in the early 1900s, political institutions in the new provinces of Alberta and Saskatchewan were most unlikely to be designed with the needs of francophones in mind.

Chain migration is often given as a dominant explanation for locational concentrations of migrants of one ethnicity or regional background, but every chain has a beginning. Francophone Canadians were not trapped in Quebec. In response to economic opportunities in the U.S., many moved southward in the late 19th century, and soon established strong links back to their regions of origin.⁴ The Dominion government employed immigration agents to encourage the Canadian-born and their children to come to Western Canada, but few French Canadians moved. Among anglophone Canadian-born men, there were approximately four in the U.S. in 1900 for every one in the Canadian west, but for francophones, the ratio was about 24 to one.⁵

Cultural and political considerations are usually advanced to explain why so few French Canadians moved west and so many went south.⁶ Some scholars argue that the federal government deliberately attempted to reduce the influence of French Canadians by favouring European immigrants over francophone migrants. The elite class in Quebec often opposed

⁴ Ramirez, *On the Move*, Roby, *Franco-Américains*.

⁵ According to the CFP and IPUMS data sets, and Table 1's definitions, there were about 365,000 anglophone and 171,000 francophone Canadian men in the US in 1900, 84,000 and 7,000 in western Canada in 1901.

⁶ Rumilly, *Problème National*, p. 19, Lalonde "Intelligentsia", Silver *French-Canadian Idea*, especially pp. 131-150, Painchaud, "French-Canadian Historiography," Leblanc, "Colonisation".

settlement in the Canadian west, instead encouraging colonization of northern Quebec and Ontario. Negative portrayals of living conditions in Western Canada were coupled with the perception that western anglophones were hostile towards Roman Catholic francophones.

Many of Quebec's elite initially opposed emigration to the U.S., where there was no governmental protection or support for their religion or language. By the end of the 19th century, clerical opposition towards the southern exodus had waned, partly because French Roman Catholic institutions had been established in most New England destinations. We do not know if French Canadians suffered greater discrimination in the west than in New England. Europeans had good reason for concern about discrimination in the west.⁷ These immigrants, however, may have felt that they would be outsiders wherever they settled in North America.

In contrast with most of the previous literature, we highlight the economic and demographic factors affecting migration patterns of francophones. Moving to the western frontier was much less economically attractive for francophones than anglophones. The main new source of information we use is the Canadian Families Project sample of the 1901 Census of Canada. This census recorded information on birthplace, mother tongue, language ability, religion, and racial origin. Occupation, and for most wage earners, annual earnings, were also reported. The 1870, 1880, and 1900 IPUMS, and Immigration Commission data collected in 1908/09, allow us to compare how job opportunities in the Canadian west and in the U.S. were matched with the skills of actual and potential migrants.⁸ We argue that given their demographic

⁷ Lehr, "Peopling the Prairies".

⁸ Given the data limitations of the Canadian and US census (no information on place of birth within Canada, or religion, for those in the US), or information on year of movement for internal migrants within Canada, we cannot estimate migration equations relating the probability of living

and human capital characteristics, the option of moving to the U.S. did little to divert eastern francophones from the west. Most of the French Canadians who went south would have been unlikely to prosper in the west.

The Regional Distribution of the Male Labour Force

At the beginning of the twentieth century, Canadian-born men were widely distributed across North America. Table 1 shows the proportions of working-age men by birthplace or ethnic group living in eastern and western Canada and the northern and western United States.⁹ These figures are derived from the 1901 Canadian manuscript census sample prepared by the Canadian Families Project, and the new 1/200 preliminary IPUMS sample of the U.S. 1900 manuscript census.¹⁰ The Canadian census asked for mother tongue, and we use mother tongue French and birthplace anywhere in Canada as our definition of French Canadian. Over 90 percent of white, native-born, non-French Canadians were mother tongue English, and we use the terms “Other Canadian” and “anglophone” interchangeably. The U.S. 1900 Census roughly divided “Canadians” (which includes Newfoundlanders) into “English Canadians” and “French

in different regions to personal characteristics.

⁹ The implied total working-age male population of eastern Canada was 1.36 million, of western Canada .22 million. Most men of aboriginal and Asian origin lived in the west. Virtually none of these men would have been able to vote.

¹⁰ The CFP project was conducted at the University of Victoria. Five percent of dwellings were randomly selected from each of the 129 reels of microfilm of the manuscript census, and population information was entered for all residents of the sampled dwelling. We eliminated the duplicates that occur because some people owned multiple dwellings, which results in a sample of approximately 262,000 individuals. Most variables in the CFP have been coded to be as comparable as possible to the IPUMS samples, although this is not the case for the occupation variables. Sager, “National Sample,” and Ruggles and Sobek, “Integrated Public Use Microdata.” Unlike the 1901 Census sample used in Green, MacKinnon and Minns (2002), the CFP sample covers the whole country.

Canadians.” For greater compatibility with the 1870 and 1880 IPUMS samples, which do not make this distinction, we used names of family members (both surname and given name) to distinguish “French” and “other” Canadians.¹¹

About 30 percent of working-age Canadian men lived in the U.S. For anglophones, average annual earnings by occupational category in U.S. urban areas were only about 10-15 percent above those in urban Canada, but the number of job openings in the U.S. was far greater.¹² Similar proportions of anglophone and francophone Canadian men were in the U.S.; French Canadians were much more heavily concentrated in New England.

Approximately 15 percent of anglophone Canadian men were in western North America, but only about 5 percent of French Canadians.¹³ If the proportion of French Canadian men in the Canadian west had been as high as that for Other Canadians (7 percent), and further assuming

¹¹ Where the surname was clearly French, or a direct English translation of a French name (e.g. Short Sleeve for Courtemanche), we considered the person French. Where the surname was not French, but at least one member of the family had a French given name, we classified the family as French. For 1900, 79 percent of those we classed as French, the census recorded as born in French Canada, 13 percent in English Canada. 72 percent of those we considered as non-French Canadians were recorded as born in English Canada, 7 percent in French Canada. (Most of the rest were simply listed as born in Canada.) Non-French speaking census enumerators likely found it hard to record French names, and at the stage of data entry into the IPUMS sample, coders likely also found it hard to decipher French names. We have tended to assign people to the French category if their surnames appear to have been mangled in the enumeration or transcription process, or if their name appears to be a phonetic rendering of a French name. For example, “Bushey” is likely “Boucher”.

¹² Green, MacKinnon, and Minns, “Dominion or Republic?”.

¹³ All of the states defined as Northwestern became states between 1858 and 1896, and we think they were the closest substitutes for the Canadian west. On the whole, the states we define as Northwestern were the states from which a substantial number of homesteaders came in 1899 (Percy and Woroby, “American Homesteaders,” p. 81). Of western states, only Iowa had a migration rate above that of the lowest rate for a state we defined as Northwestern. Almost no Canadians lived in the southern U.S., so we do not show information for that region.

this counterfactual movement would have had no displacement effect, the francophone proportion of the western population would have been roughly 20 percent, similar to the proportion living in New Brunswick. Today, New Brunswick is Canada's only officially bilingual province. We think it is plausible to argue that a 20 percent francophone voting minority in the west would, in at least some provinces, have ensured the provision of public services in French.

Central and Eastern European immigrants were much less likely to be in the west than Germans and Scandinavians, but if they were in the west, were more often in Canada.¹⁴ By 1900, there were far more Germans, Scandinavians, and Central and Eastern Europeans in North America than there were French Canadians, so even a small flow to the Canadian west resulted in substantial pockets of European mother tongue men. Table 1 does not suggest that Western Canada was an attractive destination for many of the European born. However, given the large European born population base, modest migration rates meant that there were roughly four working age men from Europe living in the Canadian west for every Canadian francophone.

In both the U.S. and Canadian west, men were very likely to be farmers, and this was particularly true for non-English mother tongue men in the Canadian west. In the eastern U.S., by contrast, few Canadian men worked in the primary sector.¹⁵ Anglophones held almost all the white collar jobs in both wests.

¹⁴ We ignore immigrants from all of southern Europe and the parts of western Europe from which there were few immigrants living in the Canadian west in 1901.

¹⁵ In 1910, for the U.S. as a whole, only about 16 percent of the French Canadian and 22 percent of Other Canadian men reporting a gainful occupation worked in agriculture, fishing, forestry, or mining (Truesdell, *Canadian Born*, p. 206).

The francophone proportion of Canadians in the U.S. was increasing towards the end of the century. According to the IPUMS samples, as of 1870, roughly 20 percent of working-age Canadian men in the U.S. were francophone, over 30 percent by 1900.¹⁶ This trend is consistent with the idea that for francophones, the south always dominated the western Canadian option, while the Canadian west became a popular choice for Other Canadians from the 1880s onward. However, even if all the Canadian men in the Canadian west in 1900 had lived in the U.S. instead, the proportion of francophones among U.S.-based Canadians would still have been 28 percent.

Costs and Benefits of Migration within North America

A gravity model provides one way of thinking about the settlement patterns of various ethnic groups, with higher income and closer locations being more attractive to potential migrants. Vedder and Galloway estimated such models to explain the locational pattern of Canadian settlement in the U.S.¹⁷ One major problem with their approach is that there is no information on the birthplace within Canada of the vast majority of Canadians enumerated in the U.S. census. In any case, distance between birthplace and place of residence may be a poor proxy for out-of-pocket travel costs. As we show in this section, travel costs from eastern Canada to the northern U.S. and to the Canadian west were highly variable by season and route, and fares from a broad set of origins, or to a broad set of destinations, were often virtually

¹⁶Paquet and Smith, “Émigration,” p. 446, suggest that the net emigration of French Canadians rose from 120,000 during the decade of the 1870s to 195,000 during the 1890s. According to the IPUMS sample, there were fewer than 200,000 Canadian born men in the Northern and Western states in 1870.

¹⁷ Vedder and Galloway, “Settlement Patterns.”

identical.

In a human capital model of migration, a relocation decision depends on the benefits and costs of the move.¹⁸ The main measurable benefit is better labour market opportunities in the destination. These opportunities probably improve, the greater the number (or proportion) of the inhabitants in the receiving region who are of the same ethnic group as the potential migrant. Information about labour market opportunities is likely better, and minority language skills more useful. In the Canadian west of the 1890s, total population and population density were low. The settlement of fairly small numbers of immigrants in an area could substantially alter its ethnic composition, and attractiveness for later migrants. Thus we see less role for chain migration as a determinant of migration to western Canada in the 1880s and 1890s than in the years of peak migration around 1910.

While the human capital model of migration is often formulated for an individual, some families moved together, or in a planned series of sub-groups. Bigger families faced higher transport costs, and employment opportunities for secondary earners varied by location. The possibility of borrowing to finance a move was limited, so for capital-constrained families, moving costs probably increased non-linearly. Thus demographic differences across ethnic groups affect the probability of moving, and the choice of location if a move is undertaken. We start with the decision of a man moving by himself, and then broaden our investigation to consider how the addition of other family members affected costs and benefits of locating in the west.

Differences in returns between source and destination labour markets reflect the relative

¹⁸ Sjaastad, "Costs and Returns."

scarcity of various types of labour, and variations in the extent of discrimination. A second reason why we think that a human capital approach will be more useful in explaining settlement patterns than a gravity model is that the former allows returns to vary by skill level. Borjas outlined a theoretical framework explaining how differences in the dispersion of earnings between source and host regions determine the part of the earnings distribution in the source region from which migrants will come.¹⁹ If earnings were no higher in the west than in the east for occupations that were disproportionately French Canadian in eastern Canada, French Canadians had little incentive to migrate.

Were the returns to western migration lower for French Canadians? As we explain below, francophones typically had less education than anglophones. While we often think of formal education as largely irrelevant for people on the frontier, those without basic literacy probably had poorer information about swiftly changing job opportunities. As we show below, white collar workers were well-paid in the west.

Unilingual francophones would have been unable to hold a wide range of jobs in the west. A modest command of English was quite adequate for a hotel-keeper in Rivière du Loup, but not Regina. A railway worker in Montreal had a francophone, or at least bilingual, foreman. This was unlikely in Winnipeg. As we show below, the penalty for being a unilingual francophone was higher in the west than in Quebec, and it may have been higher than for a cotton mill worker in New England. By the 1880s, it was possible to get by without speaking English in towns like Woonsocket (Rhode Island) or Fall River (Massachusetts). For virtually all jobs outside farming, workers in the west needed to interact regularly with non-French speakers, as

¹⁹ Borjas, “Self-Selection.”

roughly two-thirds of the adult population of the west were English mother-tongue. Only with the development of a set of mainly French-speaking communities would it have been possible for unilingual migrants to thrive in the west.

Lack of English-language skills should have been at least as much of a barrier for European immigrants as for French Canadians. There were no substantial areas in late nineteenth century Canada where a European immigrant speaking neither English nor French could prosper in an occupation where interactions with a broad range of people were needed. In the U.S., by contrast, there were many communities with high concentrations of immigrants of one language group.

The costs of migration in this period were mainly transportation costs, rather than earnings forgone during the move. Even the slowest trains took only about a week to reach Winnipeg from eastern Canada, two weeks to reach Vancouver. For migrant Europeans, time, as well as travel, costs, were greater.

The pattern of travel costs does little to explain the outcomes seen in Table 1. Table 2 shows the lowest advertised fares we could find for the late 1890s.²⁰ Fares to Winnipeg from Halifax, Montreal, and Toronto were almost identical, and probably about twice the cost of travel to the northeastern U.S. The trips to the Prairies were mostly special excursions for harvesters and those considering purchasing farmland, and were normally advertised as return fares.²¹ The advertised fares for travel within eastern North America were generally for round-trip holiday

²⁰ There was a passenger rate war in North America in 1898, which explains the very low fare to Vancouver then available.

²¹ Harvesters returned before winter set in, and intending colonists moved west the following spring.

excursions. However, we presume that one-way tickets at half to two-thirds of the advertised fares could be purchased.²² The bargain fares implied slower trains, more uncomfortable coaches, greater crowding, and travel restricted to certain times of year.²³

Per person travel costs to the west could have been much higher for families, as the harvest excursion trains, at least, were only for single men. French Canadians married younger and had more children than other Canadians.²⁴ To the extent that families wanted to move west, French Canadians faced higher total costs than English Canadians. Travel costs to the U.S. northeast, even for large families, were modest, so it seems doubtful that lack of cash stopped potential emigrants from moving.²⁵

As we show in more detail below, the typical francophone man in eastern Canada had lower earnings than the typical anglophone. For all men in the east (aged 18-65) reporting positive annual earnings in the CFP sample (mainly wage-earners), the medians were \$300 and

²² Contemporaries commented on non-agricultural workers who took the harvest trains and then stayed on in urban areas. Thompson, "Bringing in the Sheaves," pp. 487-8.

²³ The CPR, *Settlers' Index*, listed much higher standard second class passenger fares for trains leaving in the early spring -- \$21 to Winnipeg, \$37.20 to Calgary, \$41.05 to Edmonton. These rates, good from all points in Ontario, included generous baggage allowances. In 1886, the lowest priced tickets from New England to Winnipeg cost \$36. Minister of Agriculture, *Annual Report*, 1887, p. 157.

²⁴ McInnis, "Population," pp. 408-09. In the CFP sample, 36 percent of the French origin population living in eastern Canada in 1901 were aged less than thirteen, 27 percent for the British / Irish origin. Here we use reported "racial" origin to separate francophones and anglophones, because mother tongue was rarely reported for children under the age of five.

²⁵ Manufacturers sometimes advanced travel costs for families from Quebec. Massachusetts Bureau of the Statistics of Labor, *Report*, p. 63.

\$350 respectively (not adjusted for regional differences in prices).²⁶ Given the lower incomes and the greater number of dependents per adult male, francophones must typically have had fewer assets. They certainly had much less opportunity to put their savings into banks. In the late nineteenth century, there were far fewer bank branches in Quebec than in any other province, and within Quebec, predominantly French-speaking areas were least likely to have a bank branch.²⁷

If the reason for the move to the west was to establish a farm, prospective settlers had to bring capital with them, or work for wages and build up their savings. If poverty stopped some French Canadian families from buying train tickets, it would have stopped many more from becoming western farmers.

Literacy and Location

Francophone and anglophone Canadians differed dramatically in one of the few measurable human capital characteristics, their ability to read and write.²⁸ In 1871, only about half of French Canadian men in Canada were literate, while 90 percent of other Canadian men said they could read and write (Table 3).²⁹ French Canadian men in Canada were also much less literate than European immigrants in the U.S. The French Canadians in the U.S. were at least as

²⁶ Virtually no farmers reported their income in the census, as they were not wage earners. Quebec farms were much less productive than Ontario farms. In 1891, average Gross Value Added per worker in agriculture in Quebec was two - thirds the Ontario level (Green, *Regional Aspects*, pp. 85, 104).

²⁷ Rudin, *Banking en français*, pp. 7-21. In 1891, there were over 22 thousand Quebecers per branch, 9 thousand Ontarians. The national average was 12 thousand people per branch (p. 8).

²⁸ The self-reported ability to both read and write (in any language) is our measure of literacy. Greer, "Pattern of Literacy" and Ouellet "Démographie," examine francophone schooling.

²⁹ This question was asked only of those over 20.

literate as those still in eastern Canada, with higher rates for those locating away from New England. Illiterate anglophone Canadian and U.K. immigrants were also concentrated in New England.

By 1901, literacy rates of Canadian francophones had shot up.³⁰ The emigrant French Canadians in New England, however, showed far less improvement. The evidence on literacy suggests that in 1870 the emigrant francophone was quite possibly an average French Canadian; by 1900 there is a clear implication that French Canadian emigrants had less human capital than the average in the sending population.³² French Canadian men in New England had literacy rates similar to those of recent immigrants from central and Eastern Europe.

Most men in the Canadian and U.S. west around 1900 were literate, with the lowest rates for central and eastern Europeans in Canada. The second main message we take from Table 3 is that the North American west was generally not an attractive destination for those unable to read and write.

The structure of the Canadian labour market, 1901

How different were western Canadian from eastern Canadian labour markets? The Canadian Families Project sample allows us to compare the demographic and occupational profiles of male workers across the country (Table 4). Immigrants made up about half of the male labour force in the west. Marriage rates were lower in the urban west, and a much larger

³⁰ In 1901, we classify those who did not answer the literacy questions as illiterate. Most men who did not answer were non-English mother tongue. If we exclude observations without answers to the literacy questions, 83 and 89 percent of male French Canadians, and 78 and 69 percent of Eastern Europeans, were literate.

³² Inwood and Irwin, “Emigration” stress that French Canadian migrants who moved to the U.S. after age 15 were more often illiterate than were child migrants.

share of the population lived in one-person family units.³³ This was particularly true for British Columbia, where many worked in mining and logging occupations. In both town and country, more young Quebecers were married. With some exception for Quebec, almost all men in urban areas were literate and spoke English. Illiteracy was more common in rural areas, especially in Quebec and to some extent in the Maritimes, and many Quebec francophones did not speak English.

More men in the west were at the upper end of the occupational scale. In urban areas, there were more proprietors and professionals, and fewer labourers.³⁴ There were far fewer labourers (both farm and non-farm) in rural areas. In British Columbia, there was a high concentration of operatives (many of these were miners).

In the west, at least half of all adult male francophones, and those whose mother tongue was neither English nor French, worked in the agricultural sector as either farmers or farm workers. For men of English mother tongue, the proportion was below 40 percent. This suggests that men who were likely to lack English language skills flocked to occupations where difficulty speaking English was a fairly minor handicap.

Descriptions of French Canadian western settlement are consistent with the quantitative patterns revealed in the 1901 census. In New England, Roman Catholic institutions followed migrants to the towns they settled in; in the Canadian west, a small group of clerics played a

³³ In Table 4 “married” means married with spouse present. Many men with family size of one were boarders in larger households. Despite the very different concentrations of immigrants and native-born men, average age was about 35 in all ten areas.

³⁴ Burley, “Frontier of Opportunity,” pp. 46, 55 notes that the proportion of businessmen in the male labour force of Winnipeg was at its peak in the 1880s. We base occupational categories on Edwards, *Alphabetical Index*.

leading role in establishing agricultural settlements. The earliest settlements were by the Red River in southern Manitoba, with later colonies in what would become Alberta and Saskatchewan. This is largely where we find French Canadians in 1901: they were less likely than Other Canadians to live in British Columbia or in the towns of the Northwest.

The Canadian Census of 1901 was the first to ask employees to report annual earnings. Thus for most employees, and some employers and own-account workers, we can relate earnings and personal characteristics. We use evidence on the cost of room and board and clothing costs in rural and urban areas to develop regional cost of living estimates.³⁵ Table 5 summarizes the median, and top and bottom quartile cutoff points, in the distribution of annual earnings for adult men who reported earnings. For the Northwest, we show estimates of rural and urban real earnings separately. The 1900 harvest in western Canada was exceptionally poor, due to very low rainfall. Many men in the rural Northwest would have worked fewer months, for lower pay, than in previous years.³⁶

After adjusting for the higher cost of living in the west, median real earnings in the rural Northwest were much lower, and in the urban Northwest only slightly higher, than in Ontario. The distribution of earnings was wider in the Northwest, so that earnings at the 75th percentile were higher in the urban Northwest than in Ontario, and substantially higher than in Quebec or the Maritimes. British Columbia showed higher real earnings across the distribution.

³⁵ Green, MacKinnon, and Minns, “Earnings Gaps.” For urban areas, our estimates are broadly similar to those reported by Emery and Levitt, “Cost of Living.” Price levels were highest in B.C. and the Northwest, lowest in the Maritimes. Rural prices were 10-20 percent lower than urban prices in each region.

³⁶ In December, 1900, the Winnipeg *Labour Gazette* correspondent noted that the poor harvest was causing “an unusually good class of workmen” to take jobs in lumber camps (p. 150).

The 1900 U.S. Population Census did not ask respondents about their earnings, but the U.S. Census of Manufactures collected information about total wage payments and numbers of employees. Assuming that regional patterns of real earnings for male manufacturing workers were similar to those for all male wage-earners in the U.S., high real earnings in the far west, and roughly equal average earnings east of the Rockies were common to both the U.S. and Canada.³⁷

As noted earlier, Borjas's adaptation of the Roy model points to differences in the return to skill across regions as being critical in understanding which individuals migrate. Table 5 shows earnings for six broad categories of occupations. Earnings in British Columbia were relatively high in all types of occupations, although the advantage was less pronounced in the top occupational category.

At the top of the occupational ladder, men in the urban Northwest were usually very well-paid. While median real earnings for clerical and craft workers in the Northwest were below B.C. levels, they were similar to those reported in the east. Less-skilled workers in the rural Northwest were conspicuously poorly paid.³⁸ There are two main reasons why unskilled men may have done worse in the Northwest than in B.C. It was fairly cheap to travel to and from Winnipeg, with low-skilled workers readily going there for the harvest. Such temporary members of the western labour force would not have been enumerated in the West in April, 1901, but their

³⁷ Rosenbloom "Was There a National?", p. 635. We assume that New England and the East North Central States are similar to Quebec and Ontario, the West North Central to the Northwest, and the West to British Columbia. Rosenbloom's results always show real annual earnings in the West North Central region slightly above those in the eastern states, and a more modest real earnings premium for the U.S. West than we see for B.C.

³⁸ In October, 1900 (p. 50), the *Labour Gazette's* Winnipeg correspondent commented on the low real wages for "ordinary manual labour."

presence each summer eliminated labour shortages. The negative effects of 1900's poor harvest were also probably particularly severe for less skilled workers in rural areas.

Table 5 suggests that migration to the urban Northwest was often profitable for high-skilled individuals at the upper tail of the income distribution, but that there was little incentive for low-skilled Eastern Canadians to move there.³⁹ Labour markets in British Columbia offered large earnings premia for most workers. The conditions of pioneer life and labour markets (particularly jobs in mining, lumber, and railroad construction camps) were, however, unattractive for married men who wanted to live with their families. The earlier age at marriage among French Canadians likely reduced the supply of potential low-skilled migrants to B.C. In addition, it appears that a good command of English was an important asset. As Table 4 shows, white men in B.C. were much more likely to be English mother tongue than were men in the Northwest.

Francophone Earnings in Canada and the Northern United States

We have implicitly been assuming that all across Canada, francophones would have been able to earn about the same amount as non-francophones. To investigate the extent of, and regional variation in, earnings gaps for francophones, and the returns to language and literacy, we estimate standard human capital earnings regressions. Table 6A) shows means and standard deviations for the variables used in the regression models. Table 6B) shows estimated coefficients for key variables. Francophone men in the west, if they were literate and spoke English, had no clear earnings disadvantage relative to anglophones, and generally earned more

³⁹ Men working in the Northwest were less likely to be labourers than men in any other Canadian region. Thus it seems unlikely that many low-skilled men had moved west in response to small earnings gaps, and stayed there to work in low-skilled jobs.

than men of European mother tongues.⁴⁰ Clearly, literacy and ability to speak English were important characteristics for western workers, with the ability to speak English more highly rewarded than in eastern Canada. This finding is plausible, as in much of Quebec, knowing how to speak English probably had little impact on earnings capacity. While the estimated coefficients are smaller when the models are estimated for blue-collar workers only, they are still substantial.⁴¹

Many anglophones in the west opposed the extension or maintenance of French and Roman Catholic institutions in the newly settled territories.⁴² In Quebec and the Maritimes, non-Roman Catholics earned more than Roman Catholics, but in the west we find no clear effect of religion on earnings. This evidence suggests there is no reason to believe that Roman Catholics faced greater labour market discrimination in the west than in the east.

In Table 7, we use the coefficient estimates in Table 6 to compute predicted annual earnings in eastern and western Canada for men with different levels of human capital. These estimates strongly suggest that illiterate, unilingual francophones had no incentive to move west. Their predicted earnings in urban B.C. were even lower than their predicted earnings in urban Quebec.

⁴⁰ For the models estimated in columns (1) and (2), we cannot reject the hypothesis that the sum of the coefficients on the learned English and French mother tongue variables is zero. The same results for francophones relative to anglophones are found when we look only at native-born Canadians.

⁴¹ When we include dummy variables for months worked, marriage premia decline, but other coefficients are largely unaffected. Omitting observations where the literacy questions were not answered, rather than treating them as illiterates, has no effect.

⁴² Friesen, *Canadian Prairies*, p. 259.

Estimates of industrial workers' earnings in the U.S. are also shown in Table 7. The best source of information on the earnings of French Canadians in the U.S. comes from the Immigration Commission, which collected weekly earnings data from over 8,000 French Canadian men working in industry in early 1909.⁴³ Assuming that these men worked 40 weeks in the year yields our lower estimate of earnings. The Immigration Commission also surveyed a limited number of households. We use the estimated mean annual earnings for the French Canadian men in the household study as our higher estimate. 1909 earnings were almost certainly somewhat higher than 1900 earnings, and prices in the U.S. may have been a little higher than in Canada. Any plausible allowance for these factors still leaves us with the strong impression that for many blue-collar francophone men, moving to New England was financially far more appealing than moving to western Canada.⁴⁴

Adding the family

Table 4 showed that men in the Canadian west were much more likely to be living without relatives than men elsewhere in Canada. Table 8 shows a quite different gender balance for migrants to the eastern U.S. from that for migrants to the Canadian or U.S. west. Across

⁴³ Roughly a thousand more men (mainly youths aged 14 to 17) provided information on literacy and ability to speak English. With 80 percent reporting they could read and write, the industrial employees were better educated than the average French Canadian man in the US in 1900. The employees in their twenties surveyed by the Immigration Commission were also more likely to be married than the men of the same age in the IPUMS. Proportions reporting they could speak English were similar, at about 80 percent in both samples. Immigration Commission, Part 23, Vol. 1., p. 365 (marital status), Vol. II, p. 594 (literacy), 1368 (ability to speak English).

⁴⁴ French Canadian men in the Immigration Commission sample were much more likely to be bilingual than men in eastern Canada, only about 60 percent of whom reported that they spoke English. Bilingual migrants probably were better-paid, so this also raises the Immigration Commission earnings estimates relative to the sum a typical French Canadian could have earned had he moved to the U.S. in 1900.

North America, there were many fewer women than men in the west.

The migrant Europeans had the highest ratios of women to men in the Canadian west. Many of the earliest Galician (Ukrainians from the Austrian province of Galicia) migrants to Canada were (by the standards of the sending population) fairly prosperous farmers, who were able to travel as families and to establish homesteads immediately. Estimated costs of travel from Austria to western Canada in the late 1890s range up to about \$100 per adult, far above the cost of moving from eastern North America to the west.⁴⁵ Traditionally, and in Canada until at least the 1920s, Galician women worked in the fields, which raised their value as producers on pioneer farms.⁴⁶ In the CFP sample, Eastern European farming families had a substantially higher ratio of adult women to men than did farming families of other ethnic backgrounds, which is consistent with the claim that Eastern European women were more actively involved in farm work.⁴⁷

For virtually every group of migrants, the ratio of women to men was at its highest in

⁴⁵As Galician migration to Canada accelerated in the early 1900s, the flow of single, unskilled, males increased. Martynowych, *Ukrainians*, pp. 66 and 109. Journey time from Europe to the Canadian Prairies was about three weeks. In 1900, estimated travel costs, excluding board, from Galicia to Winnipeg were about \$55 per adult. *Report of the Select Standing Committee*, pp. 528-29.

⁴⁶ Most Galician farmers homesteaded in the more northern areas of the Prairies, where timber and fresh water were readily available. Galician farm families made more for home consumption than did farmers in the main wheat-growing areas further south, presumably in response to their different family structure and more limited capital. (Martynowych, *Ukrainians*, pp. 70-5, 78-83; Lehr, "Peopling the Prairies" and Darlington, "Ukrainian Impress".)

⁴⁷ Including all household members where the head had an agricultural occupation (farmers of all types, plus farm workers), for those of Eastern European racial origin, the ratio of women aged 16-70 to men was .77. For those of British / Irish racial origin, the ratio was .6, and for those of French origin, the ratio was .66.

New England.⁴⁸ For most groups, women's labour force participation rates were also highest there. Manufacturing employment was, and long had been, an important source of work for women in New England, and these were the relatively well-paid jobs available for the non-English speaking.⁴⁹ French Canadian women were employed in large numbers in the textile mills.⁵⁰ French Canadian women in New England had a strikingly higher labour force participation rate than did any other non-English mother tongue group.⁵¹

Only for French Canadian men do we see a strong positive connection between the ratio of women to men, and the regional concentration of men. For other immigrant groups, as Table 1 shows, the rest of the North East generally was the main location, and the U.S. West, where there were markedly fewer women than men, was typically at least as popular a destination for men as New England.

A sense of the relative importance of women's earnings for French Canadian and Eastern European families in the northern U.S. can be derived from the *Immigration Commission's* study of employees. The reported weekly earnings of French Canadian women (over age eighteen) were 78 percent of men's earnings, while for Poles, Russians, and Ruthenians, women's earnings

⁴⁸For the English-speaking, ratios were well above one, which is consistent with observations of many single women moving there (Beattie, *Obligation*).

⁴⁹Goldin and Sokoloff, "Women," p.768, Goldin, *Understanding the Gender Gap*, p. 64.

⁵⁰Some English mother-tongue migrant women worked in blue collar occupations, but many were in the service sector.

⁵¹ Other Canadian men in the U.S. were much more likely to be white-collar workers or farmers. With higher incomes, earnings by wives and daughters would have been less important. In New England, almost 90 percent of unmarried French Canadian women 16-24, and about two-thirds of Other Canadians, reported an occupation. Among both French and Other Canadians in eastern Canada, about 30 percent of this group reported working in 1901.

were at most two-thirds the male level.⁵² Most of the high-wage industries for men, such as iron and steel manufacturing, mining, and agricultural implement making, were located away from New England, and offered few jobs for women. The cost of moving to any part of the north eastern U.S. was far lower for French Canadians than for Eastern Europeans. French Canadian families often moved together, and New England offered good employment prospects for young women and teenage boys. Eastern European men were much more likely to move to the U.S. by themselves, so that considerations of employment possibilities for their children would have been less important.

From the Northern States to the Canadian West?

The Dominion government encouraged emigrant Canadians to move on to western Canada, with some success in the case of anglophone farmers, but far less among francophones. The repatriation agents in New England (usually Roman Catholic priests) blamed ignorance of western conditions and high travel costs for keeping French Canadians away from the Northwest. The occupational distribution of Canadian men in the U.S. also explains their limited success. Western Canada offered good opportunities for workers in the primary sector, but only 20 percent of the French Canadian men in the U.S. in 1880 were farmers, farm labourers, miners, or forestry workers, while about a third of Other Canadian men worked in these occupations. Western Canada was also a promising destination for a range of professionals and white-collar workers – again, French Canadians in the U.S. were rarely in these occupations.

The repatriation agents, who thought of emigration as a “national plague”, imagined that many New England francophones longed to take up farming in the west, because “those children

⁵² *Immigration Commission*, Part 23, vol. I, pp. 318-21.

raised amid the pure air of the country soon emaciate in the impure atmosphere of the manufactories.” Emigrants who had learned how to be factory workers were unlikely to move west, even if they had adequate capital. About a third of the working age francophone men in the U.S. in 1900 had moved there before age 14 and so probably had never acquired farm skills.⁵³

In the 1890s, when western settlement was on an upswing, the French Canadians moving to the U.S. had personal characteristics quite unlike those of the few French Canadians we find in the west. About 30 percent of French Canadian men in the northeastern U.S. in 1900 who had moved there since 1890 did not speak English, and only two-thirds could read and write. The Immigration Commission data from 1908 paint a similar picture. Only 45 percent of the men in the U.S. for less than five years spoke English.⁵⁴ The earnings evidence in Table 7 suggests that working in the U.S. was a good option for francophones with weak English and literacy skills. We have seen in Tables 6 and 7 that knowing how to speak English was a key determinant of earnings for men working in the Canadian west, and most non-anglophones reported that they could speak English. We strongly suspect that francophones who moved to the Canadian west normally spoke some English at the time of their move.

A key difference between Canadians in the U.S. and settlers in the Canadian west is that the former were much more often married. Migrants to the northeastern states – both French and

⁵³ Department of Agriculture, *Annual Report*, 1889, p. 165. Saxonhouse and Wright, “Two Forms of Cheap Labor”, p. 13 argue that in the U.S. south in the early twentieth century men who worked in cotton mills as adolescents and up to about age 25 were unlikely to move away to other industries. If this pattern held for French Canadians in New England, relocation to a western Canadian farm would have been a rare choice.

⁵⁴ Immigration Commission sample of employees, born in Canada, of French Canadian race. Information for all males over 14 (Vol. II, p. 1435).

Other Canadians -- routinely married as young adults.⁵⁵ Once married, a move to the west, where there were few job prospects for young women, and where the best-paid jobs for blue-collar men were often in remote locations unsuitable for most families, became both more costly and less appealing.

Looking forward from 1900, were francophone Canadians in the U.S. or eastern Canada as likely to move to western Canada as other Canadians? If men aged 16-29 in 1900/01 would be the core migrant group of the new decade, there were about six francophone Canadian men in the U.S. for every ten non-francophones. However, if illiterates, unilingual francophones, and the married would not move, there were only about four potentially mobile francophones in the U.S. for every ten non-francophones. For the Canadian-born living in eastern Canada, there were about five francophone young men for every ten non-francophones, but only about two and a half literate, English-speaking, single men.⁵⁶

We can only speculate on the possible impact of changing Canadian or U.S. immigration policy on population distributions in Canada. Even a radical change in U.S. policy would not likely have resulted in a much more even distribution of francophones and anglophones across Canada. If moving to the U.S. had been as difficult for Canadians in the 1880s and 1890s as it was in the 1930s (when it was nearly impossible), more francophone Quebecers would probably

⁵⁵ In 1900, just over half of French and Other Canadian men aged 25 to 29 in the northeastern U.S. were married. In eastern Canada, the proportions were 58 and 37 percent, and in western Canada, 35 and 30 percent, but 73 percent for Eastern European men.

⁵⁶ Assuming that men who did not report literacy and English-language ability were illiterate and unable to speak English.

have moved to Ontario, but few would have gone further west.⁵⁷ Anglophones in the U.S. were more like anglophones in the Canadian west: if the open door had slammed shut, a good many would likely have located in the west instead.⁵⁸

Could the Dominion government have created a substantial flow of French Canadians to the west in the 1890s? By 1914, it would almost certainly have been too late, as the other groups had by then established strong chains, and most of the good farmland had been settled. With substantial cash subsidies for poor French Canadian homesteaders, we think that, by the early 1900s, there could have been a substantial number of flourishing French Canadian communities, offering job opportunities even to the illiterate and initially unilingual. As with Eastern European migration, once an adequate base was established, a flow would probably have continued.

How big a subsidy might have been required? Establishing a farm cost \$1000 or more.⁵⁹ \$400 per adult male was greater than annual unskilled earnings in Quebec – with two or three adult men in a family, even those with virtually no capital could have established a farm. If a total expenditure of \$20 million from 1890 to 1900 had increased the French Canadian adult male population of the west by forty thousand in 1901 (and left all other population flows unchanged), about 20 percent of the working (and voting) age men in the west would have been

⁵⁷ If in 1900 every Canadian man in the U.S. West (the area most like the Canadian west) had relocated to the Canadian west, while all others remained in the U.S., the French Canadian proportion of the male population would have roughly doubled, to about 10 percent of the total.

⁵⁸ A more plausible counter-factual is an earlier U.S. imposition of literacy tests. From 1917 on, French Canadians were much more often barred from entering the U.S. because of illiteracy (Ramirez, *Crossing the 49th Parallel*, p.135). Lew and Cater, “Impact” consider the possible impact on migration to Canada by Europeans of the introduction of U.S. quotas in the 1920s.

⁵⁹ Ankli and Litt, “Growth of Prairie Agriculture,” p. 55.

francophone – enough for a substantial political presence.⁶⁰ Such a policy would have raised total federal budgetary expenditure by about 4 percent, and annual expenditure on immigration and settlement by a factor of at least four.⁶¹ The suggested grant of \$400 per man is probably a generous estimate of what was required to get a flow going, but this is largely irrelevant. Quite apart from opposition to dramatically increased expenditure levels, such a proposal was not politically feasible. How could a subsidy be offered only to French Canadians?

Conclusions

Few French Canadians had an incentive to settle in the Canadian West. For the many illiterate or unilingual francophones of eastern Canada, labour market opportunities in the west could be seen to be worse than at home. Like the European-born, the French Canadian men working in the Canadian west were highly concentrated in agriculture, where limited knowledge of English was likely less of a handicap than in other sectors.

While the out-of-pocket travel costs per person to western Canada were similar from all parts of eastern Canada, given the earlier age of marriage and greater number of children in French Canadian families, francophone men in their twenties and thirties had more dependents. Francophones in eastern Canada had lower employment earnings than anglophones, and Quebec farms were less productive than Ontario farms. Financing a move to the west, and the costs of

⁶⁰ If 50 thousand francophone men had moved west in the 1890s, perhaps 40 thousand would have remained in 1901.

⁶¹ Urquhart and Buckley, *Historical Statistics*, series G42. Actual annual expenditures by the Department of the Interior on immigration in the late 1890s were less than \$500,000 (*Report of the Auditor General*, 1896-97 H-2, 1897-98 H-2, 1898-99 H-2). Mercer, *Railroads*, p. 92, estimated the 1881 present value (in 1900 \$) of the subsidy to the Canadian Pacific Railway at approximately \$53 million.

setting up a farm, were a greater burden for francophones. Only a small subset of Eastern European migrants chose the Canadian West before 1900: by the standards of the stream of emigrants from Eastern Europe, these were often reasonably prosperous families.

The low average age of marriage for French Canadians survived the move to New England. By contrast, the living and working conditions of many occupations in western Canada made it hard for families to live together. Given the surplus of men, bachelors who moved west were reducing their prospects for marriage.

Perceptions that the Canadian West was a relatively hostile political and social environment for French Canadians and Roman Catholics may have been correct. Without controversies over language and religion, and with encouragement from the political and religious elite of Quebec, a few more French Canadians might have moved westward. However, given the very large economic disincentives, without substantial cash transfers to make up for lack of assets, it is doubtful that many French Canadians would ever have sought out the “last, best, West.”

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Table 1: Working-Age Male Population, Canada and the Northern U.S., 1900-1901

	Eastern Canada	Western Canada	New England	Rest of North-Eastern and East North Central U.S.	Northwestern U.S.	Rest of West North Central and Western U.S.	Total	Total, U.S. only
Birthplace/Origin	% of row total							
French Canadian	70	1	17	8	3	1	586	171
Other Canadian	63	7	8	14	6	2	1,211	365
U.K.	9	3	19	52	9	8	1,303	1,141
U.S.	0	0	10	60	14	15	11,580	11,543
Germany	1	0	3	69	14	13	1,118	1,106
Central/ Eastern Europe	1	2	6	75	11	5	709	688
Scandinavia	1	2	7	39	41	12	584	572
Total	1,326	179	1,725	9,427	2,323	2,111	17,091	15,586

Notes: Calculated for white male population, aged 16-65. Totals shown in thousands. Percentages may not add to 100 due to rounding. Canadian data: CFP sample * 20. U.S. data: IPUMS sample * 200.

Eastern Canada: Nova Scotia, P.E.I., New Brunswick, Quebec, Ontario. Western Canada: includes the north.

French Canadian in Canada: born in Canada, mother tongue French, or mother tongue not stated, but race French. In U.S.: born in Canada and identified as having a French name. Other Canadian in Canada: born in Canada, mother tongue not French. In U.S.: born in Canada, not identified as having a French name. In U.S., Newfoundlanders included as Canadians.

New England: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Rest of North Eastern and East North Central U.S.: Delaware, New Jersey, New York, Pennsylvania, Illinois, Indiana, Michigan, Ohio, Wisconsin; Northwestern U.S.: Minnesota, Nebraska, Kansas, North Dakota, South Dakota, Montana, Wyoming, Idaho, Colorado,

Utah, Oregon, Washington; Rest of West North Central and Western U.S.: Iowa, Missouri, Arizona, Nevada, New Mexico, California

Central/Eastern Europe: Switzerland, Austro-Hungarian Empire, Russian Empire

Table 2: Minimum Transportation Costs from Eastern Canada, 1890s (\$)

Destination:	Montreal, Quebec	Halifax, Nova Scotia	Toronto, Ontario	Maine/Quebec Border
Boston	8.50 ^R	6.50 ^{OW}	n.a.	n.a.
Portland, Maine	6.00 ^R	n.a.	11.00 ^R	n.a.
New York	10.00 ^R	7.00 ^{OW}	n.a.	n.a.
Detroit	10.00 ^R	n.a.	n.a.	n.a.
Minneapolis	15.00 ^{OW}	n.a.	28.00 ^R	n.a.
Winnipeg, Manitoba	10.00 ^{OW}	28.00 ^R , 12.00 ^{OW}	10.00 ^{OW}	17.50 ^{OW}
Moose Jaw, N.W.T.	14.00 ^{OW}	30.00 ^R	10.00 ^{OW}	n.a.
Edmonton, N.W.T.	40.00 ^R	40.00 ^R	40.00 ^R	26.00 ^{OW}
Vancouver, B.C.	25.00 ^{OW}	28.00 ^{OW}	n.a.	n.a.
Liverpool, England	22.50 ^{OW}	n.a.	n.a.	n.a.

Sources and Notes: ^{OW} One Way Fare, ^R Return Fare

Montreal - Boston and Portland: C.P.R. special excursion fares, *La Patrie*, 28/8/1898, p. 3; -New York : G.T.R. special excursion fare, *La Presse*, 14/10/1896, p. 4; - Detroit: G.T.R. and C.P.R. special excursion fares, *La Presse*, 29/9/1896, p. 4; - Moose Jaw: C.P.R. harvest special. Good from all points in Canada east of Windsor, Sarnia, and Mattawa to all points from Winnipeg to Saltcoats, Moosejaw, and Estevan. Return ticket for \$14 upon proof of having worked on a farm for at least a month. *La Presse*, 19/8/1896, p. 5; - Minneapolis and Vancouver: C.P.R., *Montreal Daily Star*, 14/3/1898, p. 8; -Winnipeg: G.T.R. farm labourers' excursion. Return for \$18. *Montreal Daily Star*, 9/8/1898, p. 8; - Edmonton: C.P.R. colonists' 60 day excursions. *Montreal Daily Star*, 6/7/1898, p. 4; -Liverpool: steerage fare, Dominion Line and Beaver Line, *Montreal Daily Star*, 9/8/1898, p. 8.

Halifax - Boston: Plant Line, *Halifax Herald*, 25/3/1898, p. 7; - New York: Red Cross Line, second cabin, *Halifax Herald*, 25/3/1898, p. 7; -Vancouver: C.P.R., *Halifax Herald*, 25/3/1898, p. 7; -Moose Jaw and Edmonton: C.P.R. farmers' excursions, *Halifax Herald*, 11/7/1898, p. 7; - Winnipeg: return: C.P.R. Harvest Excursion, *Halifax Herald*, 24/8/1898, p. 7 (same fare for all points in Manitoba); one-way: C.P.R., agricultural settlers arriving in Halifax, *Report of Select Standing Committee*, p. 512.

Toronto-Portland: C.P.R., *Toronto Globe*, 25/8/1898, p. 7; -Winnipeg and Moose Jaw: C.P.R. Farm Laborers' Excursion, *Toronto Globe*, 3/8/1898, p.9; -Edmonton: C.P.R., Home seekers' excursion fare, *Toronto Globe*, 9/6/1898, p. 5; - Minneapolis: G.T.R. Harvest Excursion, *Toronto Globe*, 9/9/1898, p. 9.

Maine/ Quebec Border-Edmonton: C.P.R. special fare of 1¢ per mile for intending settlers, *Report of Select Standing Committee*, p. 346; - Winnipeg: estimated based on special fare of 1¢ per mile.

Table 3: Literacy Rates (percentage) of Working-Age Male Population, Canada and the U.S., 1870-71 and 1900-1901

	Eastern Canada		Western Canada	New England		Rest of North-Eastern and East North Central U.S.		Northwestern U.S.		Rest of West North Central and Western U.S.	
	1870-1 ^a	1900-1	1900-1	1870-1	1900-1	1870-1	1900-1	1870-1	1900-1	1870-1	1900-1
French Canadian	47	74	84	53	66	61	77	65	85	100	96
Other Canadian	90	95	99	81	95	90	97	93	99	97	99
U.K. born	87	96	99	78	94	84	95	88	96	91	97
German	92	86	87	95	95	96	96	97	96	97	97
Central/ Eastern European	n.a.	77	60	86	84 (69) ^b	95	77 (70) ^b	90	87 (82) ^b	97	93 (90) ^b
Scandinavian	n.a.	96	88	88	98	91	97	88	97	90	98

Notes: Calculated for white male population, aged 16-65 (Canada, 1901, those not answering literacy questions assumed to be illiterate.)

Eastern Canada: Nova Scotia, P.E.I., New Brunswick, Quebec, Ontario. Western Canada: Northwest and B.C.

French Canadian in Canada: born in Canada, mother tongue French. In U.S.: born in Canada and identified as having a French name.

Other Canadian in Canada: born in Canada, mother tongue not French. In U.S.: born in Canada, not identified as having a French name.

New England: Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Rest of North Eastern and East North Central U.S.: Delaware, New Jersey, New York, Pennsylvania, Illinois, Indiana, Michigan, Ohio, Wisconsin

Northwestern U.S.: Minnesota, Nebraska, Kansas, North Dakota, South Dakota, Montana, Wyoming, Idaho, Colorado, Utah, Oregon, Washington

Rest of West North Central and Western U.S.: Iowa, Missouri, Arizona, Nevada, New Mexico, California

^a For men aged 20-65. Calculated from Ornstein and Darroch, "Canadian Historical Mobility."

^b Men arriving in U.S. 1890 +

Table 4: Male Workers' Characteristics, Canada 1901

	Urban Areas (population 1000+)					Rural Areas (population < 1000)				
%	B.C.	Northwest	Ontario	Quebec	Maritimes	B.C.	Northwest	Ontario	Quebec	Maritimes
French mother tongue	3	4	5	69	5	3	6	5	82	14
English mother tongue	86	76	88	27	89	80	67	85	16	76
Learned English	13	22	11	57	10	19	24	14	38	21
Literate	99	98	98	92	97	98	94	95	83	90
Married if aged 20-29	24	22	29	35	26	21	22	24	38	22
Family size=1	44	40	19	16	16	61	31	14	8	7
Proprietor / professional	20	21	16	18	17	9	6	5	5	5
Clerical	13	19	17	16	14	3	3	3	2	2
Craft	22	21	26	23	22	12	5	7	7	7
Service	6	8	4	4	6	4	2	1	2	2
Operative	23	16	19	17	18	35	7	5	5	7
Labourer/farm labourer	15	16	18	21	23	20	25	34	33	43
Farmer						17	52	43	46	35
Canadian born	48	52	74	86	89	40	51	85	96	97
U.K. born	33	26	20	8	8	31	21	12	2	2
Observations	1,242	1,198	10,741	7,096	2,721	1,250	4,241	17,486	10,293	7,935

Notes: Calculated for white men, aged 16-65, with known marital status, birthplace, mother tongue, and occupation. Men in urban areas reporting an agricultural occupation excluded. Northwest: Manitoba and what would later be Alberta and Saskatchewan.

Table 5: 'Real' Annual Male Earnings by Region and Occupational Group

		B.C.	Northwest		Ontario	Quebec	Maritimes
			Urban	Rural			
All workers	P25	368	279	189	297	283	253
	Median	511	419	283	396	380	380
	P75	680	620	484	585	566	506
Proprietor/ professional	P25	441	422	202	366	377	253
	Median	638	698	377	594	566	440
	P75	882	1,163	605	877	981	759
Clerical	P25	355	349	242	297	300	330
	Median	560	465	414	475	472	456
	P75	720	698	581	658	660	633
Craft	P25	400	349	242	350	330	322
	Median	560	465	439	465	453	440
	P75	720	698	566	594	566	550
Service	P25	352	221	121	297	283	176
	Median	468	388	189	396	380	323
	P75	638	515	389	500	477	440
Operative	P25	368	184	194	297	280	275
	Median	510	372	202	396	377	388
	P75	662	465	306	500	480	506
Labourer	P25	294	230	131	243	228	190
	Median	400	310	202	305	300	275
	P75	480	388	223	396	380	380
Observations		1,781	821	629	12,145	8,940	4,842

Notes: The sample consists of white men, aged 16-65, not living with their employer, who reported positive earnings and a legible occupation. Price information from Green, MacKinnon, and Minns, "Earnings Gaps" used to calculate real earnings in 1900 Toronto \$. P25 is the cutoff for the bottom quartile and P75 for the top quartile.

Table 6: Explaining Earnings in Western and Eastern Canada, 1901
A) Summary Statistics

Variable	West		East	
	All Male Workers	Blue Collar	All Male Workers	Blue Collar
annual earnings (real)	\$524 (449)	\$457 (297)	\$472 (435)	\$398 (244)
Age	35.0 (10.9)	34.3 (10.7)	34.9 (12.8)	33.7 (12.6)
Urban, 1,001-9,999	0.249 (0.432)	0.246 (0.431)	0.260 (0.438)	0.268 (0.443)
Urban, 10,000-50,000	0.290 (0.454)	0.267 (0.442)	0.108 (0.310)	0.111 (0.314)
Urban, 50,001 +			0.257 (0.437)	0.233 (0.423)
Literate	0.959 (0.197)	0.938 (0.241)	0.905 (0.293)	0.872 (0.335)
Learned English	0.178 (0.383)	0.207 (0.405)	0.263 (0.440)	0.268 (0.443)
French Mother tongue	0.039 (0.193)	0.042 (0.200)	0.304 (0.460)	0.333 (0.471)
European Mother tongue	0.166 (0.373)	0.208 (0.406)	0.049 (0.215)	0.054 (0.226)
Married	0.462 (0.499)	0.408 (0.492)	0.587 (0.492)	0.571 (0.495)
Non Roman Catholic	0.850 (0.357)	0.813 (0.390)	0.574 (0.494)	0.535 (0.499)
Maritimes			0.191 (0.393)	0.184 (0.388)
Quebec			0.328 (0.470)	0.337 (0.473)
Ontario			0.481 (0.500)	0.478 (0.500)
Prairies	0.505 (0.500)	0.449 (0.498)		
British Columbia	0.495 (0.500)	0.551 (0.498)		
Observations	3,231	1,994	25,927	17,606

Notes: Mean (standard deviation)

B) Regression Estimates. Dependent variable is ln (annual real earnings)

	West		East	
	All men	Blue Collar	All men	Blue Collar
	-1	-2	-3	-4
Literate	0.273 (0.066)	0.226 (0.069)	0.305 (0.013)	0.232 (0.013)
Learned English	0.441 (0.084)	0.372 (0.085)	0.214 (0.015)	0.168 (0.015)
French mother tongue	-0.420 (0.106)	-0.440 (0.113)	-0.246 (0.019)	-0.199 (0.020)
European mother tongue	-0.690 (0.084)	-0.581 (0.087)	-0.250 (0.022)	-0.180 (0.022)
Married	0.269 (0.026)	0.235 (0.031)	0.093 (0.010)	0.084 (0.011)
Non - Roman Catholic	0.044 (0.057)	0.027 (0.069)	0.150 (0.021)	0.098 (0.024)
Non - R.C.* Ontario			-0.128 (0.023)	-0.096 (0.025)
Non - R.C.* Maritimes			0.023 (0.026)	0.075 (0.029)
Non - R.C.*B.C.	-0.019 (0.068)	-0.047 (0.079)		
Ontario			-0.046 (0.017)	-0.013 (0.017)
Maritimes			-0.236 (0.019)	-0.225 (0.020)
B.C.	0.654 (0.065)	0.798 (0.074)		
Constant	2.373 (0.333)	2.267 (0.408)	2.041 (0.092)	2.249 (0.099)
R ²	0.25	0.28	0.22	0.21
Observations	3,231	1,994	25,927	17,606

Notes: Standard error shown in parentheses. Sample includes white men aged 16-65, not living with employer, as in Table 5. Annual nominal earnings adjusted by price index in Green, MacKinnon and Minns “Earnings Gaps”. Married men not living with spouse recorded as married. Controls for age (to age³) and urban area size also included. For east, base is Roman Catholic anglophone in Quebec in an urban area of >50,000 population. For west, base is Roman Catholic anglophone in rural Northwest.

Table 7: Predicted Annual Blue-Collar Earnings of Canadian-Born Men in Canada and the Northern United States

	Urban <10,000, B.C.	Urban>50,000, Quebec	Northern U.S.
Francophone, illiterate and unable to speak English	\$278	\$ 289	
Francophone, literate and speaks English	\$506	\$431	
Anglophone, literate	\$531	\$490	
All Non-Francophone			\$566 ^a
All Francophone			\$425 ^a - 538 ^b

Notes: Workers in Canada assumed to be single, average age 33. Earnings in 1900 \$, adjusted for regional price differences. Francophones assumed to be Roman Catholic, Anglophones not Roman Catholic. Based on coefficients in Table 6, columns 2 and 4.

^a Foreign-born male employees aged 18+, average weekly earnings times 40 weeks, employee study. Immigration Commission, Part 23, Vol. 1, p. 319.

^b “Canadian, French”, approximate yearly earnings of males 18+, household study, Immigration Commission, Part 23, Vol. 1, p. 327.

Table 8: Ratios of Working-Age Women to Men and Women's Labour Force Participation Rates, U.S. and Canadian regions, 1900/1901

Birthplace	New England		Rest of North East U.S.		U.S. West		Eastern Canada		Western Canada	
	F/M	% L	F/M	% L	F/M	% L	F/M	% L	F/M	% L
French Canada	0.99	40	0.72	19	0.60	11	0.97	17	0.63 ^a	17
Other Canada	1.33	31	1.00	22	0.68	16	1.04	18	0.66 ^a	16
United Kingdom	1.26	33	1.05	26	0.72	14	0.89	21	0.57	15
Germany	0.84	16	0.89	15	0.72	12	0.81	14	0.76	22
Eastern Europe	0.77	22	0.70	20	0.62	16	0.78	12	0.78	9
Scandinavia	0.87	24	0.82	24	0.69	17	0.39	11	0.66	21

Notes: For white population aged 16-65. Birthplace and mother tongue (for the Canadian-born) define ethnic origin. Western Canada includes Northwest and B.C.

F/M: ratio of women to men

% L: percentage of women aged 16-65 with an occupation

^a Excludes those born in Western Canada



Institute for International Integration Studies

The Sutherland Centre, Trinity College Dublin, Dublin 2, Ireland

