

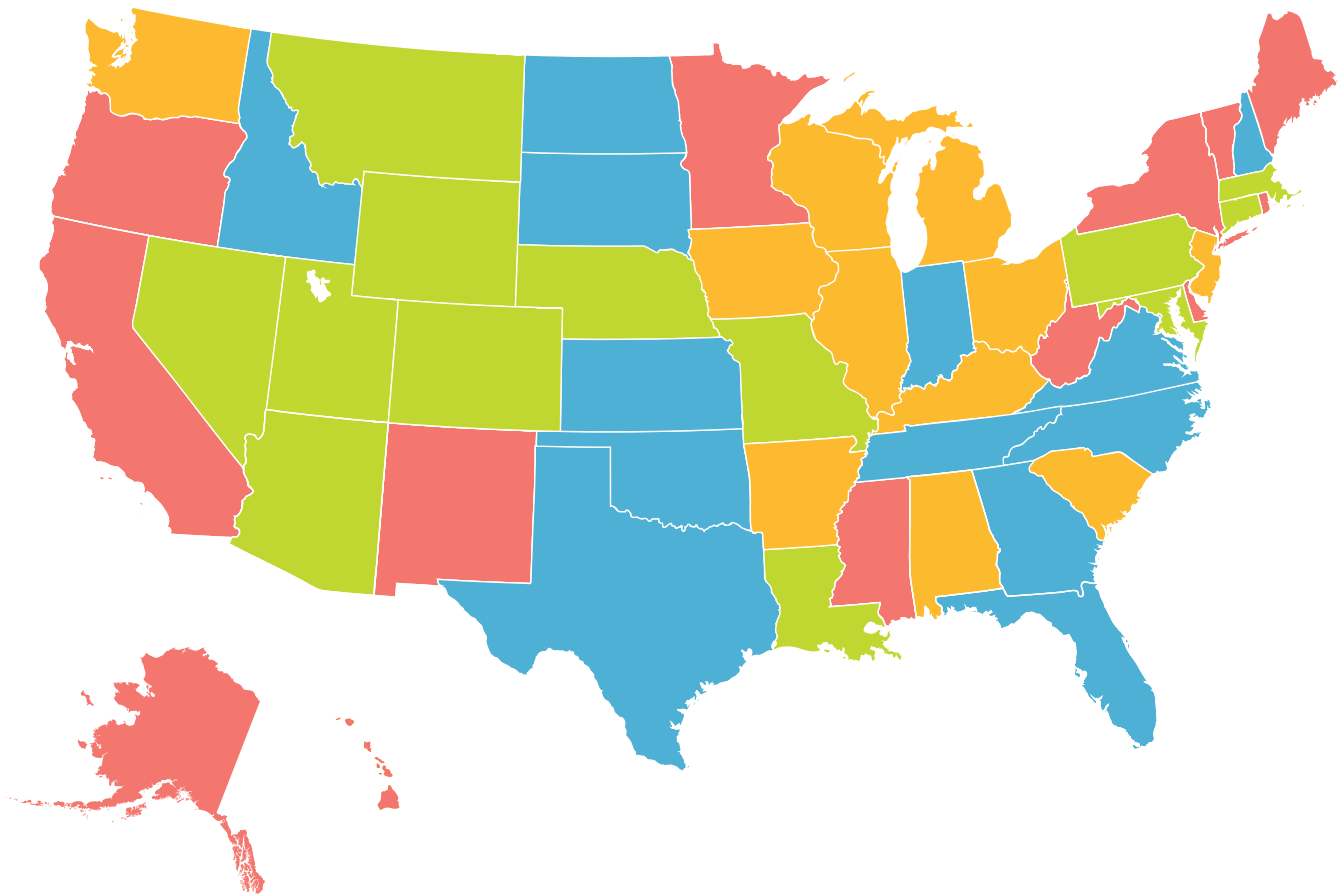


THE BUCKEYE INSTITUTE

Dean Stansel, José Torra  
& Fred McMahon



# Economic Freedom of North America 2021



The map uses the subnational index.

 MOST FREE

 2ND QUARTILE

 3RD QUARTILE

 LEAST FREE



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and Fred McMahon



THE BUCKEYE INSTITUTE



Fraser Institute

2021

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# Foreword

The Buckeye Institute and the Fraser Institute have released their annual *Economic Freedom of North America* (EFNA) report, an index that ranks economic freedom in each state for the year 2019. The rankings show the impact of state fiscal policy and labor market regulations on the freedom of individuals, businesses, and prosperity. Since 2001, the Fraser Institute has measured economic freedom in the United States, Canada, and Mexico, allowing for a comprehensive assessment of national and international trends in economic freedom, and The Buckeye Institute is pleased to join again in the effort.

The EFNA index ranks economic freedom according to three state policy metrics: government spending, taxation, and labor market regulation. In the 2021 report, Ohio maintained a lackluster rating of 35<sup>th</sup> in the nation. Ohio fell to 42<sup>nd</sup> in the government spending category because of high state spending. Ohio fares poorly in this area due to its state run workers compensation system and wobbly state pension programs. The state's tax policy ranking provides better news, improving one spot to 23<sup>rd</sup> in the nation as state policymakers have continued to lower the income tax rates. Lower income tax rates allow workers to keep more of their own money to spend as they see fit, a hallmark of economic freedom. Ohio's labor market jumped three spots to 30<sup>th</sup> nationally, but the state remains below average with a relatively high minimum wage and poor labor market regulations. Higher minimum wages harm lower-skilled workers as employers hesitate to hire them, preferring more skilled workers or technology replacements. Ohio's unions exacerbate labor market problems by reducing flexibility and slowing economic growth with artificially high-priced construction projects.

Ohio's 35<sup>th</sup> place ranking is its best score in the index's history, but it remains below average nevertheless. The highest ranked states, such as Florida, Texas, and New Hampshire, for example, are attracting new businesses and new residents with pro-growth and pro-freedom economic and regulatory policies. To enhance economic freedom and make Ohio more attractive to businesses and workers, state policymakers should reduce government spending, reform the state tax code, and end labor market regulations that do households and workers more harm than good.

Rea S. Hederman Jr.  
Executive Director of the Economic Research Center and  
Vice President of Policy  
The Buckeye Institute

# Ohio Economic Freedom Fact Sheet

The Fraser Institute, using an updated methodology to measure economic freedom, ranked Ohio 35<sup>th</sup> out of the 50 states.



## Neighboring States' Rankings

### Freer Than Ohio

Indiana: 11<sup>th</sup>

Pennsylvania: 19<sup>th</sup>

Michigan: 34<sup>th</sup>

### Less Free Than Ohio

Kentucky: 37<sup>th</sup>

West Virginia: 47<sup>th</sup>

## Ohio's Strengthens & Weaknesses

### Strengths

11<sup>th</sup> – Top income tax rate

17<sup>th</sup> – Property tax and other taxes as a percentage of income

18<sup>th</sup> – Government employees as a percentage of total employees

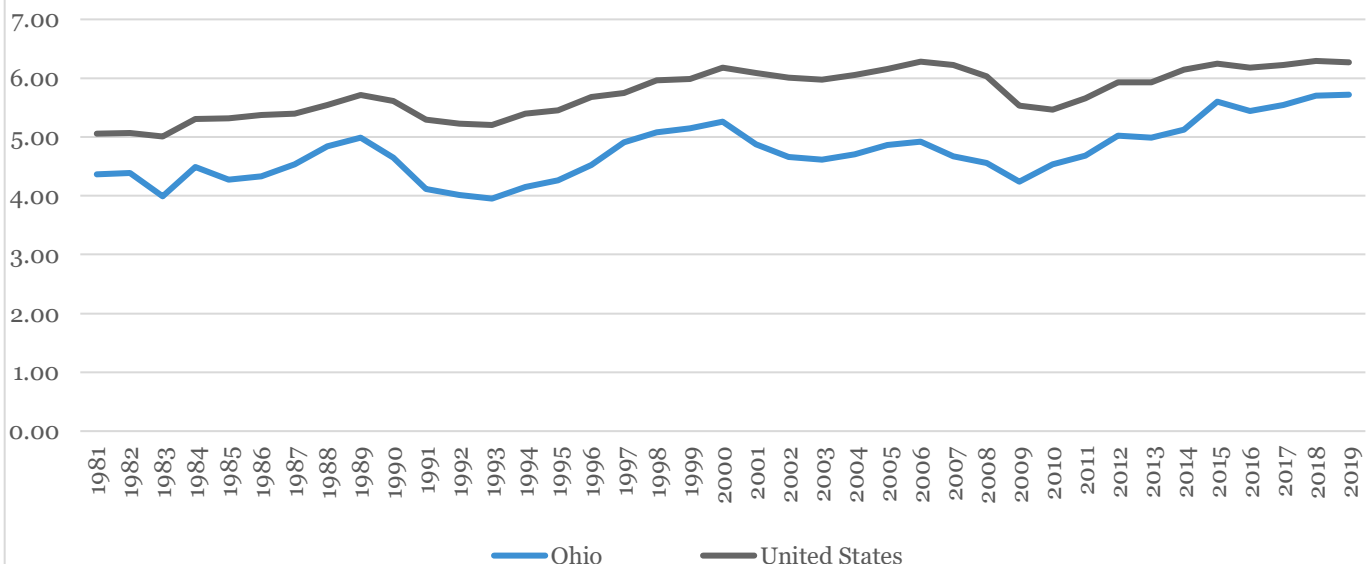
### Weaknesses

49<sup>th</sup> – Insurance and retirement payments as a percentage of personal income

42<sup>nd</sup> – Government spending

30<sup>th</sup> – Sales tax revenue as a percentage of income

## Ohio's Overall Economic Freedom vs. the Country's 1981-2019



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# Executive Summary

## Economic Freedom of North America in 2019

*Economic Freedom of North America 2021* is the seventeenth edition of the Fraser Institute's annual report. This year it measures the extent to which—in 2019, the year with the most recent available comprehensive data—the policies of individual provinces and states were supportive of economic freedom, the ability of individuals to act in the economic sphere free of undue restrictions. There are two indices: one that examines provincial/state and municipal/local governments only and another that includes federal governments as well. The former, our subnational index, is for comparison of individual jurisdictions within the same country. The latter, our all-government index, is for comparison of jurisdictions in different countries.

For the subnational index, *Economic Freedom of North America* employs 10 variables for the 92 provincial/state governments in Canada, the United States, and Mexico in three areas: 1. Government Spending; 2. Taxes; and 3. Labor Market Regulation. In the case of the all-government index, we incorporate three additional areas at the federal level from *Economic Freedom of the World* (EFW): 4. Legal Systems and Property Rights; 5. Sound Money; and 6. Freedom to Trade Internationally; and we expand Area 1 to include government investment (variable 1C in EFW), Area 2 to include top marginal income and payroll tax rate (variable 1Dii in EFW), and Area 3 to include credit market regulation and business regulations (also at the federal level). These additions help capture restrictions on economic freedom that are difficult to measure at the provincial/state and municipal/local level.

Since the most recent data available for the report are from 2019, they do not capture the effect on economic freedom of COVID-19 and government responses to it.

## Results for Canada, the United States, and Mexico

### The all-government index

The all-government index includes data from *Economic Freedom of the World* (Gwartney, Lawson, Hall, and Murphy, 2021). These data, available only on the national level, enable better comparisons among Canadian, Mexican, and US subnational jurisdictions that take into account national policies affecting all jurisdictions within each country. Canada and the United States have similar scores in the EFW report; both are typically among the top 10 nations, though Canada fell out of the top 10 this year. Mexico ranks much lower, at 75<sup>th</sup> this year; this is an improvement over past years.

The top jurisdiction is New Hampshire at 8.23, followed by Florida (8.17), Idaho (8.16), and then South Carolina, Utah, and Wyoming tied for fourth (8.15). Alberta is the highest ranking Canadian province, tied for 33<sup>rd</sup> place with a score of 8.00. The next highest Canadian province is British Columbia in 47<sup>th</sup> at 7.91. Alberta had spent seven years at the top of the index but fell out of the top spot in the 2018 report (reflecting 2016 data).

The highest-ranked Mexican state is Baja California with 6.65, followed by Nayarit (6.62), Tlaxcala (6.61), then Jalisco and Chihuahua (tied at 6.60). They are nearly a full point behind those ranking lowest in Canada and the United States, although that gap has been shrinking. The lowest-ranked state is Ciudad de México at 5.63, followed Colima at 5.93 and Tamaulipas at 6.16.

Seven of the Canadian provinces are ranked behind all 50 US states. Prince Edward Island is 60<sup>th</sup> with a score of 7.58, followed closely by the province of Newfoundland & Labrador (7.60), Nova Scotia (7.61), and New Brunswick (7.62). The lowest ranked of the United States are New York (51<sup>st</sup>, 7.85), Rhode Island (50<sup>th</sup>, 7.87), and Hawaii (49<sup>th</sup>, 7.88).

Historically, average economic freedom in all three countries peaked in 2004 at 7.74 then fell steadily to 7.24 in 2011. Canadian provinces saw the smallest decline, only 0.19, whereas the decline in the United States was 0.51 and, in Mexico, 0.58. Since then average economic freedom in North America has risen slowly to 7.43 but still remains below that peak in 2004. However, economic freedom has increased in the United States and Mexico since 2013. In contrast, in Canada, after an increase in 2014, it has fallen back below its 2013 level.

### **The subnational indices**

For the purpose of comparing jurisdictions within the same country, the subnational indices are the appropriate choice. There is a separate subnational index for each country. In Canada, the most economically free province in 2019 was again Alberta with 6.17, followed by British Columbia with 5.44, and Ontario at 5.31. However, the gap between Alberta and second-place British Columbia continues to shrink, down from 2.30 points in 2014 to 0.73 in 2019. The least free by far was Quebec at 2.83, following New Brunswick at 4.09, and Prince Edward Island and Nova Scotia at 4.20.

In the United States, the most economically free state was New Hampshire at 7.83, followed closely by Tennessee at 7.82, Florida at 7.78, Texas at 7.75, and Virginia at 7.59. (Note that since the indexes were calculated separately for each country, the numeric scores on the subnational indices are not directly comparable across countries.) The least-free state was New York at 4.33, following California at 4.68, Vermont at 4.86, West Virginia at 5.00, and New Mexico at 5.01.

In Mexico, the most economically free state was Baja California at 6.01. Michoacán de Ocampo was second at 5.87, followed by Jalisco at 6.01. The least free Mexican states were Campeche at 2.53, Zacatecas at 2.89, and Tabasco at 2.93.

In addition to the tables found in chapter 3, our new interactive website at [www.freetheworld.com](http://www.freetheworld.com) contains all the latest scores and rankings for each of the components of the index as well as historical data on the overall and area scores. The full dataset is also available for download at that same website.

**Economic freedom and economic well-being at the subnational level**

The jurisdictions in the least economically free quartile (one fourth) on the all-government index had, in 2019, an average per-capita income of just US\$2,362, compared to US\$51,666 for the most economically free quartile. On the subnational index, the same relationship holds, with the least-free quartile having an average per-capita income 1.0% below the national average, while the most-free quartile was over 7.5% above it.

In addition, economic freedom at the subnational level has generally been found to be positively associated with a variety of measures of the per-capita size of the economy and the growth of the economy as well as various measures of entrepreneurial activity. There are now more than 330 articles by independent researchers examining subnational economic freedom using the data from *Economic Freedom of North America*. (Appendix C lists some of the most recent ones.) Much of that literature discusses economic growth or entrepreneurship but the list also includes studies of a variety of topics such as income inequality, eminent domain, and labor markets. The vast majority of the results correlate higher levels of economic freedom with positive outcomes, such as economic growth, lower unemployment, reduced poverty, and so on. The results of these studies tend to mirror those found for these same relationships at the country level using the index published in *Economic Freedom of the World*.

## Data available to researchers

The full data set, including all of the data published in this report as well as data omitted due to limited space, can be downloaded for free at <<https://www.fraserinstitute.org/economic-freedom/dataset>>. The data file available there contains the most up-to-date and accurate data for the index published in *Economic Freedom of North America*. All editions of the report are available in PDF and can be downloaded for free at <[www.fraserinstitute.org/studies/economic-freedom](http://www.fraserinstitute.org/studies/economic-freedom)>. However, users are always strongly encouraged to use the data from the most recent data file as updates and corrections, even to earlier years' data, do occur.

If you have difficulty downloading the data, please contact Fred McMahon via e-mail to <[freetheworld@fraserinstitute.org](mailto:freetheworld@fraserinstitute.org)>. If you have technical questions about the data itself, please contact Dean Stansel via e-mail to <[dean.b.stansel@gmail.com](mailto:dean.b.stansel@gmail.com)>.

### Cite the dataset

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*Year* 2021  
*URL* <<https://www.fraserinstitute.org/economic-freedom/dataset>>

# Chapter 1

## Economic Freedom of Canada, the United States, and Mexico in 2019

### Economic freedom and the index

*Economic Freedom of North America* is an attempt to gauge the extent of the restrictions on economic freedom imposed by governments in North America. The index published here measures economic freedom at two levels, the subnational and the all-government. At the subnational level, it measures the impact on economic freedom of provincial and municipal governments in Canada and of state and local governments in the United States and Mexico. At the all-government level, it measures the impact of all levels of government—federal, provincial/state, and municipal/local—in Canada, the United States, and Mexico. All 10 provinces, 50 US states, and 32 Mexican states (including Ciudad de México) are included (figures 1.1, 1.2a, 1.2b, and 1.2c). Since the most recent data available for the report are from 2019, they do not capture the effect on economic freedom of COVID-19 and government responses to it.

### What is economic freedom and how is it measured in this index?

Writing in *Economic Freedom of the World, 1975–1995*, James Gwartney, Robert Lawson, and Walter Block defined economic freedom in the following way.

Individuals have economic freedom when (a) property they acquire without the use of force, fraud, or theft is protected from physical invasions by others and (b) they are free to use, exchange, or give their property as long as their actions do not violate the identical rights of others. Thus, an index of economic freedom should measure the extent to which rightly acquired property is protected and individuals are engaged in voluntary transactions. (Gwartney, Lawson, and Block, 1996: 12)

The freest economies operate with minimal government interference, relying upon personal choice and markets to answer basic economic questions such as what is to be produced, how it is to be produced, how much is produced, and for whom production is intended. As government imposes restrictions on these choices, there is less economic freedom.

The research flowing from the data generated by the annually published report, *Economic Freedom of the World* (EFW), a project Michael Walker, who was then executive director of the Fraser Institute, initiated 30 years ago, shows that economic freedom is important to the well-being of a nation's citizens. This research has found that economic freedom is positively correlated with per-capita income, economic growth, greater life expectancy, lower child mortality, the development of democratic institutions, civil and political freedoms, and other desirable social and economic outcomes.<sup>1</sup> Just as *Economic Freedom of the World* seeks to measure economic freedom of countries on an international basis, *Economic Freedom of North America* has the goal of measuring differences in economic freedom at both the subnational and all-governments level among the Canadian provinces, US states, and Mexican states.

In 1999, the Fraser Institute published *Provincial Economic Freedom in Canada: 1981–1998* (Arman, Samida, and Walker, 1999), a measure of economic freedom in 10 Canadian provinces. *Economic Freedom of North America* updates and, by including the 50 US states and the 32 Mexican states, expands this initial endeavor. It looks at the 10 Canadian provinces (Northwest Territories, Nunavut, and Yukon are not included) and the 50 US states from 1981 to 2019 and the 32 Mexican states back to 2003. Each province and state is ranked on economic freedom at both the subnational (state/provincial and local/municipal) and the all-government (federal, state, and local) levels. This helps isolate the impact of different levels of government on economic freedom in Canada, the United States, and Mexico. The subnational index provides a comparison of how individual jurisdictions within a country measure up against other jurisdictions in that country. The all-governments index provides a comparison of how individual jurisdictions in different countries compare to each other.

Because of data limitations and revisions, some time periods are either not directly comparable or are not available. When necessary, we have generally used the data closest to the missing time period as an estimate for the missing data (specific exceptions to this approach are discussed individually in Appendix B). If there have been changes in this component during this period, this procedure would introduce some degree of error in the estimate of economic freedom for the particular data point. However, omitting the component in the cases when it is missing and basing the index score on the remaining components may create more bias in the estimate of overall economic freedom.

We examine state- and province-level data in three areas of economic freedom: government spending, taxes, and labor-market regulation. To account for factors that vary primarily across countries but not subnational jurisdictions, our all-government index includes additional variables found in *Economic Freedom of the World*.

- 
1. A list of such articles and additional information can be found at <https://www.fraserinstitute.org/economic-freedom/>. See also Easton and Walker, 1997; and De Haan and Sturm, 2000. For the latest summary of literature on economic freedom at an international level, see Doucouliagos and Ulubasoglu, 2006; and Hall and Lawson, 2014.

Prior to the 2012 report, we had not included in the North American index data from several areas used in the index published in *Economic Freedom of the World*—in particular, data for the legal system and property rights, and for regulation of credit and business. There were two reasons for this. Firstly, data in these areas are typically not available at the state/provincial level. Secondly, these are primarily areas of national policy and would vary little from province to province or state to state. Since Canada and the United States had similar scores for these areas in the index of nations and territories covered by the broader world report, that also meant that these factors varied little from province to state and thus it was not essential to include these data in the index of economic freedom in North America.

However, most of these national-level measures do vary substantially for Mexico compared to Canada and the United States. Furthermore, Mexico's governmental system is much more centralized, with a significantly greater role for the federal government. To enable us to produce a more comparable measure across the three countries, at the all-government level we began including data from the world index for the legal system and property rights and for regulation of credit and business. We later expanded on that approach by adding ten additional components: sound money, freedom to trade internationally, government enterprises and investment, top marginal income and payroll tax rate, and the six components of the area of labor-market regulations.

## Results on the all-government index

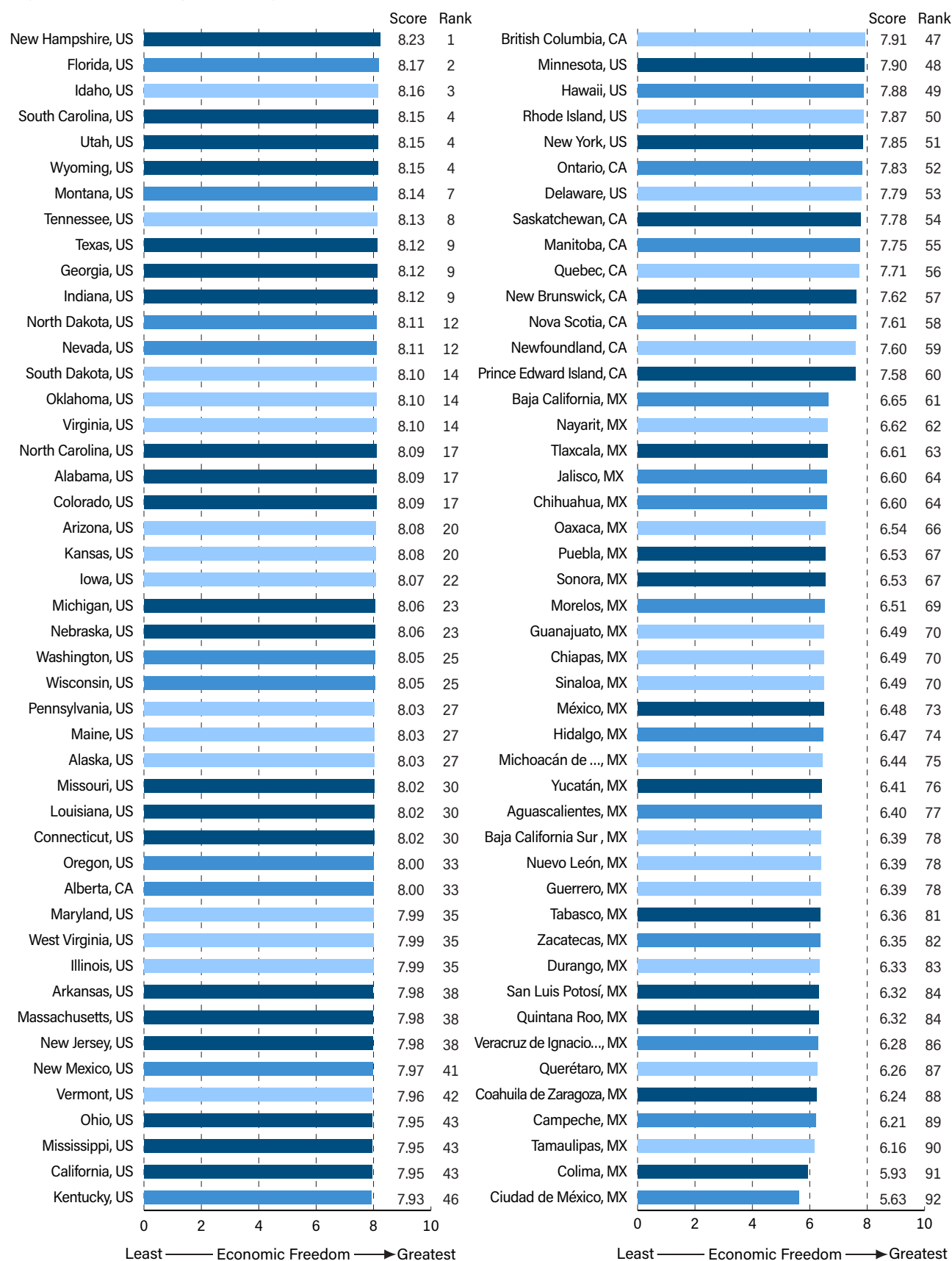
As **figure 1.1** indicates, on the all-government index the highest ranked jurisdiction is again New Hampshire with a score of 8.23, followed by Florida (8.17), Idaho (8.16), and then South Carolina, Utah, and Wyoming tied for fourth (8.15).<sup>2</sup> Alberta is the highest ranked province at 33<sup>rd</sup> place with a score of 8.00. British Columbia, the Canadian province next highest after Alberta, is now at 47<sup>th</sup> with 7.91. The lowest-ranked Canadian province is Prince Edward Island at 60<sup>th</sup> (7.58), followed closely by Newfoundland & Labrador (7.60), Nova Scotia (7.61), and New Brunswick (7.62). Seven of the ten Canadian provinces are behind the lowest-ranked US state, Delaware, at 53<sup>rd</sup> with 7.79. The next lowest-ranked states in the United States are New York (51<sup>st</sup>, 7.85), Rhode Island (50<sup>th</sup>, 7.87), and Hawaii (49<sup>th</sup>, 7.88).

The highest-rated Mexican state is Baja California at 61<sup>st</sup> with 6.65, behind all 50 US states and 10 Canadian provinces, and below 60<sup>th</sup> place by nearly one full point, though that gap has been shrinking in recent years. Nayarit (6.62), Tlaxcala (6.61), Jalisco (6.60), and Chihuahua (6.60) are close behind. The lowest rated is Ciudad de México (92<sup>nd</sup> with 5.63), followed by Colima at 5.93 and Tamaulipas at 6.16. (For a more detailed discussion of Mexican results, see Chapter 2: Economic Freedom of the Mexican States in 2019.)

2. In the figures, ties have been indicated by the use of the same shade.



Figure 1.1: Summary of Ratings for Economic Freedom at the All-Government Level, 2019





As **table 1.1** indicates, on average, US states have a higher level of economic freedom on the all-government index than Canadian provinces (8.04 out of 10 compared to 7.74). That margin has been about the same for the past few years. Historically, economic freedom had generally been declining in all three countries, though less so in Canada. From 2004 to 2011, the overall average score declined from 7.74 to 7.24, and then increased steadily to 7.46 in 2017. Since 2013, the average has generally been rising in both the United States and Mexico, but has fallen slightly in Canada.

**Table 1.1: Average Economic Freedom Scores at the All-Government Level, Selected Years, 2003–2019**

	2003	2007	2011	2015	2016	2017	2018	2019
Canada	7.93	7.90	7.78	7.93	7.92	7.85	7.75	7.74
United States	8.35	8.30	7.87	8.04	8.08	8.12	8.06	8.04
Mexico	6.54	6.50	6.10	6.32	6.24	6.32	6.39	6.39
Overall average	7.67	7.63	7.24	7.43	7.42	7.46	7.45	7.43
United States minus Canada	0.42	0.40	0.09	0.11	0.16	0.26	0.32	0.30
Canada minus Mexico	1.39	1.40	1.68	1.61	1.68	1.53	1.36	1.35

Table 3.1 (pp. 34–35) shows the individual scores for all six areas included in the all-government index. The calculations for the index and the data sources for the scores are found in appendices A and B. Because of a lack of available data for the Mexican states, the all-government index extends back only to 2003. The longer time series back to 1985 is available in the full dataset published on the Fraser Institute’s website <[www.fraserinstitute.org/studies/economic-freedom](http://www.fraserinstitute.org/studies/economic-freedom)>. We cannot go all the way back to 1981 because the EFW data is currently only available at five-year intervals prior to 2000. Since these data are at the national level, they do not affect calculations of the subnational indices. The subnational indices for Canada and the United States extend back to 1981.

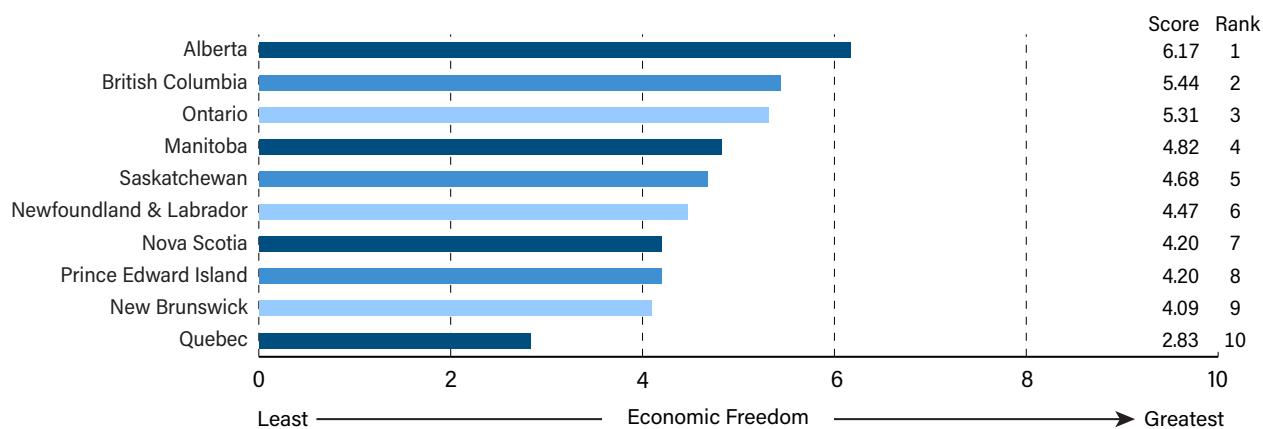
## Results on the subnational indices

For comparisons of jurisdictions within the same country, the subnational indices are most appropriate. **Figures 1.2a, 1.2b, and 1.2c** show the subnational indices for Canada, the United States, and Mexico.

## Canada

Alberta, with a score of 6.17, was in 2019 the most economically free province in Canada, although its lead has shrunk substantially, down from 2.30 points in 2014 to 0.73 in 2019 (**figure 1.2a**). The next highest province was British Columbia at 5.44, followed by Ontario at 5.31. Quebec was at the bottom with 2.83, well below New Brunswick at 4.09 and Prince Edward Island and Nova Scotia, tied at 4.20.

**Figure 1.2a: Summary of the Ratings of Canadian Provinces for Economic Freedom at the Subnational Level, 2019**



## United States

**Figure 1.2b** shows the subnational scores for the US states. After a one-year absence in last year's report, New Hampshire is again in the top spot with 7.83, followed closely by Tennessee (7.82), then Florida (7.78), Texas (7.75), and Virginia (7.59).<sup>3</sup> The least-free state was again New York with 4.33, far behind California (4.68), Vermont (4.86), West Virginia (5.00), and New Mexico (5.01).

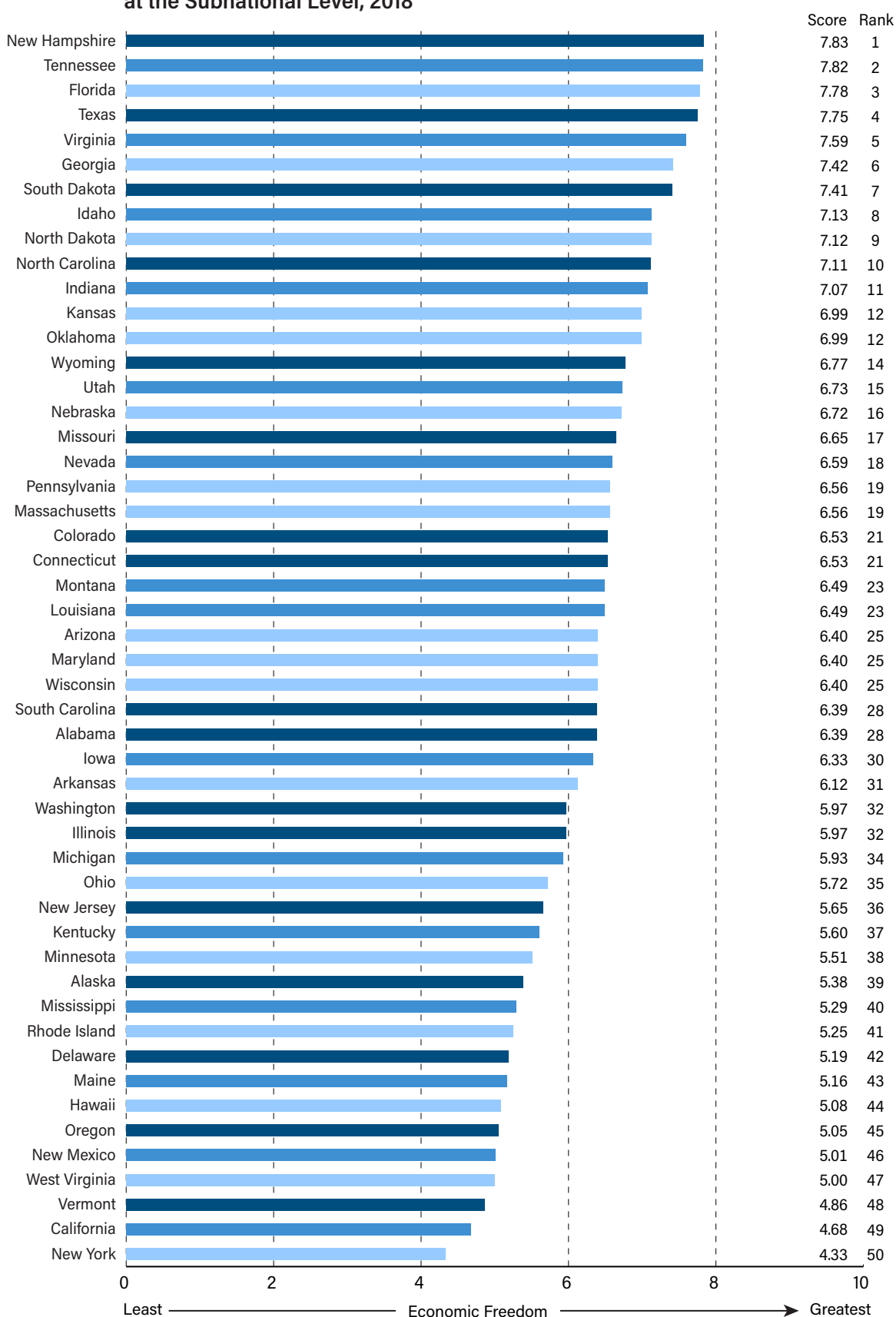
## Mexico

The subnational scores for the Mexican states can be found in **figure 1.2c**. (Chapter 2 contains a more detailed discussion of the Mexican index.) The most economically free state by this measure was Baja California at 6.01, followed by Michoacán de Ocampo at 5.87, and Jalisco at 5.74.<sup>4</sup> This year, Campeche was the least-free Mexican state at 2.53, followed by Zacatecas (2.89) and Tabasco (2.93).

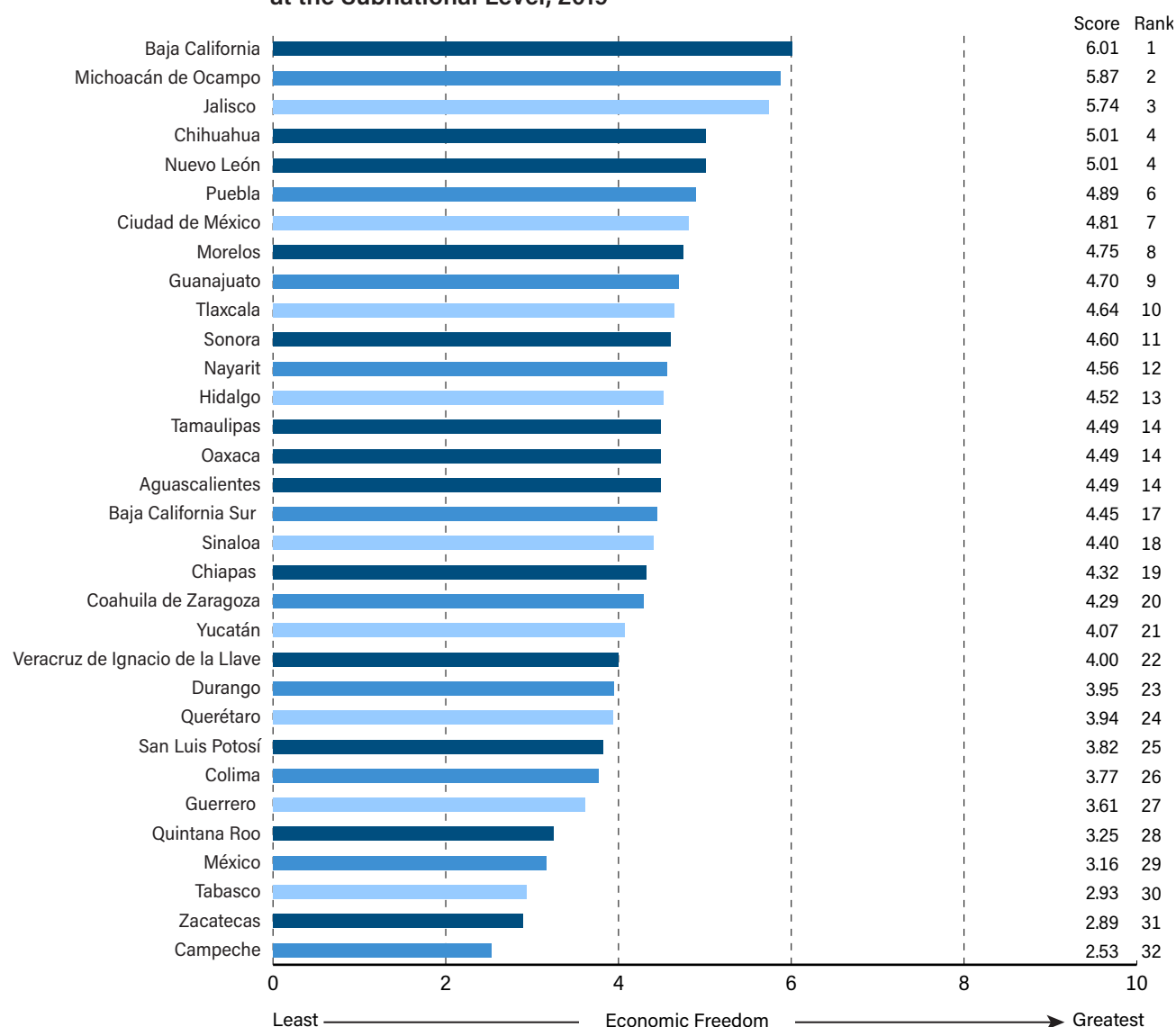
In addition to the tables in Chapter 3, all the 2019 scores and rankings for each of the components of the index as well as historical data on the overall and area scores may be found on our interactive website at [www.freetheworld.com](http://www.freetheworld.com), where the full dataset is also available for download.

- Note that since the indices were calculated separately for each country, the numeric scores on the subnational indices are not directly comparable across countries.
- Mexico has a much more centralized government structure than Canada and the United States. As a result, since the subnational index leaves out the impact of the federal government, it is a less useful measure of the relative level of economic freedom experienced across the Mexican states.

**Figure 1.2b: Summary of the Ratings of US States for Economic Freedom at the Subnational Level, 2018**



**Figure 1.2c: Summary of Ratings of the Mexican States for Economic Freedom at the Subnational Level, 2019**



## Description of components

The theory of economic freedom is no different at the subnational level than it is at the global level, although different variables consistent with the theory of economic freedom must be found that suit subnational measures. The 10 components of the subnational index fall into three areas: Government Spending, Taxes, and Labor Market Freedom. Most of the components we use are calculated as a ratio of income in each jurisdiction and thus do not require the use of exchange rates or purchasing power parities (PPP). The exception is component 2B, Top Marginal Income Tax Rate and the Income Threshold at Which It Applies, where purchasing power parity is used to calculate equivalent top thresholds in Canada and Mexico in US dollars.

Using a simple mathematical formula to reduce subjective judgments, a scale from zero to 10 for each component was constructed to represent the underlying distribution of each of the 10 components in the index. The highest possible score on each component is 10, which indicates a high degree of economic freedom and the lowest possible score is 0, which indicates a low degree of economic freedom.<sup>5</sup> Thus, this index is a relative ranking. The rating formula is consistent across time to allow an examination of the evolution of economic freedom. To construct the overall index without imposing subjective judgments about the relative importance of the components, each area was equally weighted and each component within each area was equally weighted (see Appendix A: Methodology, p. 55, for more details).

In order to produce comparable tax and spending data for jurisdictions of widely different sizes and income levels, all such variables are standardized by dividing by income (as is the minimum-wage variable). In Canada and Mexico, we use “household income”; in the United States, the comparable concept is called “personal income”. We use income instead of GDP because there are some jurisdictions where there are large levels of economic activity (included in GDP) that do not directly benefit residents and GDP thus overstates the resources that residents have available to pay the burden of government. For example, because of peculiarities in its tax law, the US state of Delaware has an abnormally high number of corporate bank headquarters. Much of the revenue generated by those operations goes to shareholders outside Delaware. Those dollars are included in GDP, making taxes and spending seem less burdensome as a percentage of the economy than they actually are. Those dollars are not included in personal income, so using income provides a more accurate measure of the level of economic freedom.

## Area 1 Government Spending

### 1A General Consumption Expenditures by Government as a Percentage of Income

As the size of government expands, less room is available for private choice. While government can fulfill useful roles in society, there is a tendency for government to undertake superfluous activities as it expands: “there are two broad functions of government that are consistent with economic freedom: (1) protection of individuals against invasions by intruders, both domestic and foreign, and (2) provision of a few selected goods—what economists call public goods” (Gwartney, Lawson, and Block, 1996: 22). These two broad functions of government are often called the “protective” and “productive” functions of government. Once government moves beyond these two functions into the provision of private goods, goods that can be produced by private firms and individuals, it restricts consumer choice and, thus, economic freedom (Gwartney, Lawson, and Block, 1996). In other words, government spending,

5. Because of the way scores for economic freedom are calculated, a minimum-maximum procedure discussed in Appendix A: Methodology (p. 55), a score of 10 is not indicative of perfect economic freedom, but rather the most freedom among the existing jurisdictions.

independent of taxation, by itself reduces economic freedom once this spending exceeds what is necessary to provide a minimal level of protective and productive functions. Thus, as the size of government consumption expenditure grows, a jurisdiction receives a lower score in this component.

#### **1B Transfers and Subsidies as a Percentage of Income**

When the government taxes one person in order to give money to another, it separates individuals from the full benefits of their labor and reduces the real returns of such activity (Gwartney, Lawson, and Block, 1996). These transfers represent the removal of property without providing a compensating benefit and are, thus, an infringement on economic freedom. Put another way, when governments take from one group in order to give to another, they are violating the same property rights they are supposed to protect. The greater the level of transfers and subsidies, the lower the score a jurisdiction receives.

#### **1C Insurance and Retirement Payments as a Percentage of Income**

When private, voluntary arrangements for retirement, disability insurance, and so on are replaced by mandatory government programs, economic freedom is diminished. As the amount of such spending increases, the score on this component declines.

#### **1D Government Investment**

*(all-government index only)*

When government engages in more of what would otherwise be private investment, economic freedom is reduced. This variable, used only in the all-government index, is the country score for variable 1C in *Economic Freedom of the World: 2021 Annual Report*. A detailed description and data sources can be found in that report, available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

### **Area 2 Taxes**

As the tax burden grows, the restrictions on private choice increase and thus economic freedom declines. We examine the major forms of taxation separately.

#### **2A Income and Payroll Tax Revenue as a Percentage of Income**

This variable includes all personal and corporate income taxes as well as payroll taxes used to fund social insurance schemes (i.e., employment insurance, Workers Compensation, and various pension plans).

#### **2Bi Top Marginal Income Tax Rate<sup>6</sup> and the Income Threshold at Which It Applies**

Because marginal income tax rates represent the direct penalty on economic activity, in addition to the revenue variable, we include a variable that incorporates the top tax

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6. See Appendix A: Methodology (p. 55) for further discussion of how the rating for the top marginal tax rate and its threshold was derived.

rate as well as the income level at which that rate applies. Top personal income-tax rates are rated by the income thresholds at which they apply. Higher thresholds result in a better score. More details can be found in Appendices A and B.

*2Bii Top marginal income and payroll tax rate (all-government index only)*

This variable, used only in the all-government index, is the country score for variable 1Dii in *Economic Freedom of the World: 2021 Annual Report*. A detailed description and data sources can be found in that report, available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

**2C Property Tax and Other Taxes as a Percentage of Income**

This variable includes all forms of taxation other than income, payroll, and sales taxes (which are already captured in variables 2A and 2D), with one exception. Revenue from taxes on natural resources are excluded for three reasons: 1. most areas do not have them; 2. their burden is largely exported to taxpayers in other areas; 3. they can fluctuate widely along with the prices of natural resources (for example, oil), thereby creating outliers that distort the relative rankings.

**2D Sales Tax Revenue as a Percentage of Income**

This variable includes all sales and gross receipts taxes (including excise taxes). Such taxes are a major source of revenue for subnational governments.

*Note about intergovernmental transfers and double counting*

In examining the two areas above, it may seem that Areas 1 and 2 create a double counting, in that they capture the two sides of the government ledger sheet, revenues and expenditures, which presumably should balance over time. However, in examining subnational jurisdictions, this situation does not hold. A number of intergovernmental transfers break the link between taxation and spending at the subnational level.<sup>7</sup> The break between revenues and spending is even more pronounced at the all-government level, which includes the federal government. Obviously, what the federal government spends in a state or a province does not necessarily bear a strong relationship to the amount of money it raises in that jurisdiction. Thus, to take examples from both Canada and the United States, the respective federal governments spend more in the province of Newfoundland & Labrador and the state of West Virginia than they raise through taxation in these jurisdictions while the opposite pattern holds for Alberta and Connecticut. As discussed above, both taxation and spending can suppress economic freedom. Since the link between the two is broken when examining subnational jurisdictions, it is necessary to examine both sides of the government's balance sheet.

7. Most governments have revenue sources other than taxation and national governments also have international financial obligations so that the relation between taxation and spending will not be exactly one to one, even at the national level. Nevertheless, over time, the relationship will be close for most national governments, except those receiving large amounts of foreign aid.

## Area 3 Regulation

### 3A Labor Market Regulation

#### 3Ai *Minimum Wage*

High minimum wages restrict the ability of employees and employers to negotiate contracts to their liking. In particular, minimum wage legislation restricts the ability of low-skilled workers and new entrants to the workforce to negotiate for employment they might otherwise accept and, thus, restricts the economic freedom of these workers and the employers who might have hired them.

This component measures the annual income earned by someone working full time at the minimum wage as a percentage of per-capita income. Since per-capita income is a proxy for the average productivity in a jurisdiction, this ratio takes into account differences in the ability to pay wages across jurisdictions. As the minimum wage grows relative to productivity, thus narrowing the range of employment contracts that can be freely negotiated, there are further reductions in economic freedom, resulting in a lower score for the jurisdiction. For example, minimum wage legislation set at 0.1% of average productivity is likely to have little impact on economic freedom; set at 50% of average productivity, the legislation would limit the freedom of workers and firms to negotiate employment to a much greater extent. For instance, a minimum wage requirement of \$2 an hour for New York will have little impact but, for a developing nation, it might remove most potential workers from the effective workforce. The same idea holds, though in a narrower range, for jurisdictions within Canada, the United States, and Mexico.

#### 3Aii *Government Employment as a Percentage of Total State/Provincial Employment*

Economic freedom decreases for several reasons as government employment increases beyond what is necessary for government's productive and protective functions. Government, in effect, is using expropriated money to take an amount of labor out of the labor market. This restricts the ability of individuals and organizations to contract freely for labor services since employers looking to hire have to bid against their own tax dollars to obtain labor. High levels of government employment may also indicate that government is attempting to supply goods and services that individuals contracting freely with each other could provide on their own; that the government is attempting to provide goods and services that individuals would not care to obtain if able to contract freely; or that government is engaging in regulatory and other activities that restrict the freedom of citizens. Finally, high levels of government employment suggest government is directly undertaking work that could be contracted privately. When government, instead of funding private providers, decides to provide a good or service directly, it reduces economic freedom by limiting choice and by typically creating a governmental quasi-monopoly in provision of services. For instance, the creation of school vouchers may not decrease government expenditures but it will reduce government employment, eroding government's monopoly on the provision of publicly funded education services while creating more choice for parents and students and, thus, enhancing economic freedom.



*3Aiii Union Density*

Workers should have the right to form and join unions, or not to do so, as they choose. However, laws and regulations governing the labor market often force workers to join unions when they would rather not, permit unionization drives where coercion can be employed (particularly when there are undemocratic provisions such as union certification without a vote by secret ballot), and may make decertification difficult even when a majority of workers would favor it. On the other hand, with rare exceptions, a majority of workers can always unionize a workplace and workers are free to join an existing or newly formed union.

To this point in time, there is no reliable compilation of historical data about labor-market laws and regulations that would permit comparisons across jurisdictions for the United States, Canada, and Mexico. In this report, therefore, we attempt to provide a proxy for this component. We begin with union density, that is, the percentage of unionized workers in a state or province. However, a number of factors affect union density: laws and regulations, the level of government employment, and manufacturing density. In measuring economic freedom, our goal is to capture the impact of policy factors, laws and regulations, and so on, not other factors. We also wish to exclude government employment—although it is a policy factor that is highly correlated with levels of unionization—since government employment is captured in component 3Aii above.

Thus, we ran statistical tests to determine how significant an effect government employment had on unionization—a highly significant effect—and held this factor constant in calculating the component. We also ran tests to determine if the size of the manufacturing sector was significant. It was not and, therefore, we did not correct for this factor in calculating the component. It may also be that the size of the rural population has an impact on unionization. Unfortunately, consistent data from Canada, the United States, and Mexico are not available. Despite this limitation, the authors believe this proxy component is the best available at this time. Its results are consistent with the published information that is available (see, for example, Godin, Palacios, Clemens, Veldhius, and Karabegović, 2006).<sup>8</sup>

Most of the components of the three areas described above exist for both the subnational and the all-government levels. Income and payroll tax revenue, for example, is calculated first for local/municipal and provincial/state governments, and then again counting all levels of government that capture such revenue from individuals living in a given province or state.

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8. The National Right to Work Legal Defense Foundation (2011) provides a reasonable measure of right-to-work laws and when they were established for US states (see <[www.nrtw.org/b/rtw\\_faq.htm](http://www.nrtw.org/b/rtw_faq.htm)>). We considered using this to replace or complement the measure of unionization rates used in the past. However, the benefit of using a measure of unionization rates is that it picks up some of the differences in enforcement and informal freedoms not picked up by the legislation. For instance, some states may have right-to-work laws with weak enforcement while other states that do not have such laws may actually protect labor freedom more in practice. Although we decided not to include a measure for right-to-work legislation, the analysis was fruitful in that it strongly validates the proxy as an appropriate measure of workers' freedom.

## Components added for the all-government index

To incorporate more accurately the differences in economic freedom in the Mexican states relative to the rest of North America, we include a number of variables from the world index in our all-government index of North American states and provinces. The index expands the regulatory area to include data on these areas. Labour regulation becomes one of three components of Area 3: Regulation, which comprises 3A: Labour market regulation; 3B: Credit market regulation (Area 5A from *Economic Freedom of the World*); and 3C: Business regulations (Area 5C from EFW). (See Appendix A for a description of how Area 3 is now calculated.)

Why the regulation of credit and business affects economic freedom is easily understood. When government limits who can lend to and borrow from whom and puts other restrictions on credit markets, economic freedom is reduced; when government limits business people's ability to make their own decisions, freedom is reduced.

### 3A Labor Market Regulation

3Aiv *Hiring regulations and minimum wage*

3Av *Hiring and firing regulations*

3Avi *Centralized collective bargaining*

3Avii *Hours regulations*

3Aviii *Mandated cost of worker dismissal*

3Aix *Conscription*

### 3B Credit Market Regulation

3Bi *Ownership of banks*

3Bii *Private sector credit*

3Biii *Interest rate controls/negative real interest rates*

### 3C Business Regulations

3Ci *Administrative requirements*

3Cii *Bureaucracy costs*

3Ciii *Starting a business*

3Civ *Impartial public administration*

3Cv *Licensing restrictions*

3Cvi *Cost of tax compliance*

We also include three other areas: Area 4: Legal System and Property Rights (Area 2 from *Economic Freedom of the World*), Area 5: Sound Money (Area 3 from EFW), and Area 6: Freedom to Trade Internationally (Area 4 from EFW).

## Area 4 Legal System and Property Rights

Protection of property rights and a sound legal system are vital for economic freedom, otherwise the government and other powerful economic actors for their own benefit can limit the economic freedom of the less powerful. The variables for Legal System and Property Rights from the world index are the following.

- 4A Judicial Independence
- 4B Impartial Courts
- 4C Protection of Property Rights
- 4D Military Interference in Rule of Law and Politics
- 4E Integrity of the Legal System
- 4F Legal Enforcement of Contracts
- 4G Regulatory Restrictions on the Sale of Real Property
- 4H Reliability of Police

## Area 5 Sound Money

Provision of sound money is important for economic freedom because without it the resulting high rate of inflation serves as a hidden tax on consumers. The variables for Sound Money from the world index are the following.

- 5A Money Growth
- 5B Standard Deviation of Inflation
- 5C Inflation: Most Recent Year
- 5D Freedom to Own Foreign Currency Bank Accounts

## Area 6 Freedom to Trade Internationally

Freedom to trade internationally is crucial to economic freedom because it increases the ability of individuals to engage in voluntary exchange, which creates wealth for both buyer and seller. The variables for Area 6 from the world index are the following.

- 6A Tariffs
  - 6Ai *Revenue from trade taxes (% of trade sector)*
  - 6Aii *Mean tariff rate*
  - 6Aiii *Standard deviation of tariff rates*
- 6B Regulatory trade barriers
  - 6Bi *Non-tariff trade barriers*
  - 6Bii *Compliance costs of importing and exporting*
- 6C Black-market exchange rates
- 6D Controls of the movement of capital and people
  - 6Di *Financial openness*
  - 6Dii *Capital controls*
  - 6Diii *Freedom of foreigners to visit*

More information on the variables and the calculations can be found in Appendices A and B. For detailed descriptions of the country-level variables, readers can refer to Appendix: Explanatory Notes and Data Sources in *Economic Freedom of the World: 2021 Annual Report* (Gwartney, Lawson, Hall, and Murphy, 2021). The inclusion of these data from the world index raises the scores for both the Canadian provinces and US states since both Canada and the United States do well in these areas when compared to other nations, as is done in the world index. The effect on the Mexican states tends to be the opposite.

## Overview of the results

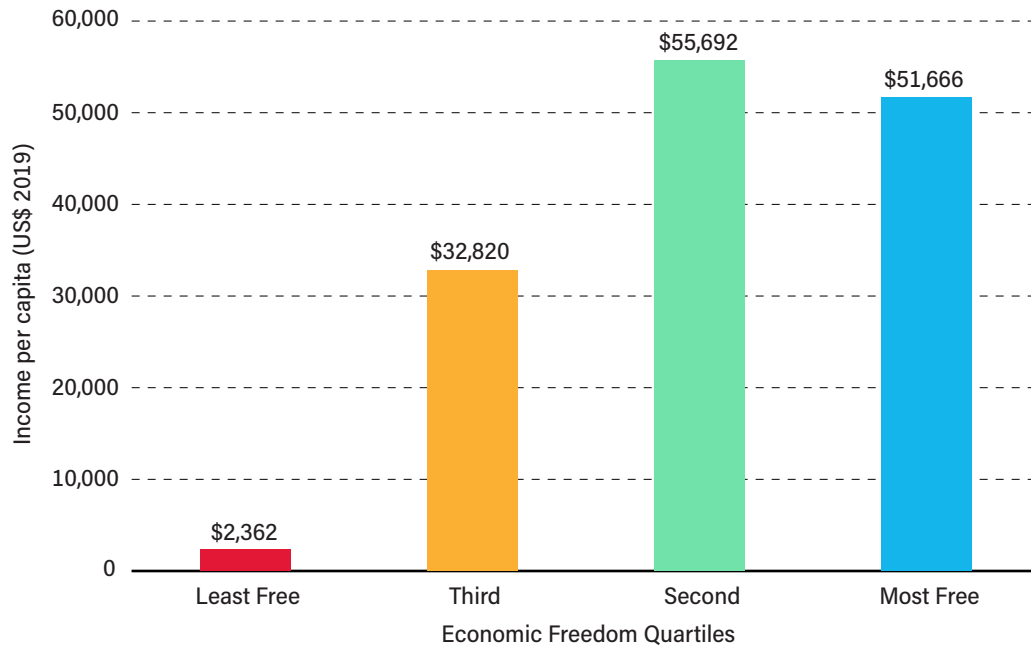
Following are some graphs that demonstrate dramatically the important links between prosperity and economic freedom. **Figure 1.3** breaks the states and provinces into quartiles (or fourths) by economic freedom at the all-government level. For example, the category on the far left of the chart, “Least Free”, represents the jurisdictions that score in the lowest fourth of the economic freedom ratings, the 23 lowest of the 92 Canadian, Mexican, and American jurisdictions. The jurisdictions in this least-free quartile have an average per-capita income of just US\$2,362. This compares to an average per-capita income of US\$51,666 for the 23 top-ranked jurisdictions.

**Figure 1.4** is similar to figure 1.3 but it shows economic freedom at the subnational level and measures both economic freedom and per-capita income as deviations from the average, since the three subnational indices are not directly comparable.<sup>9</sup> Jurisdictions in the most-free quartile had per-capita incomes 7.5% above the national average, while those in the least-free quartile were 1.0% below it. In each index, average per-capita income in the most-free jurisdictions is substantially higher than in those that are the least free.

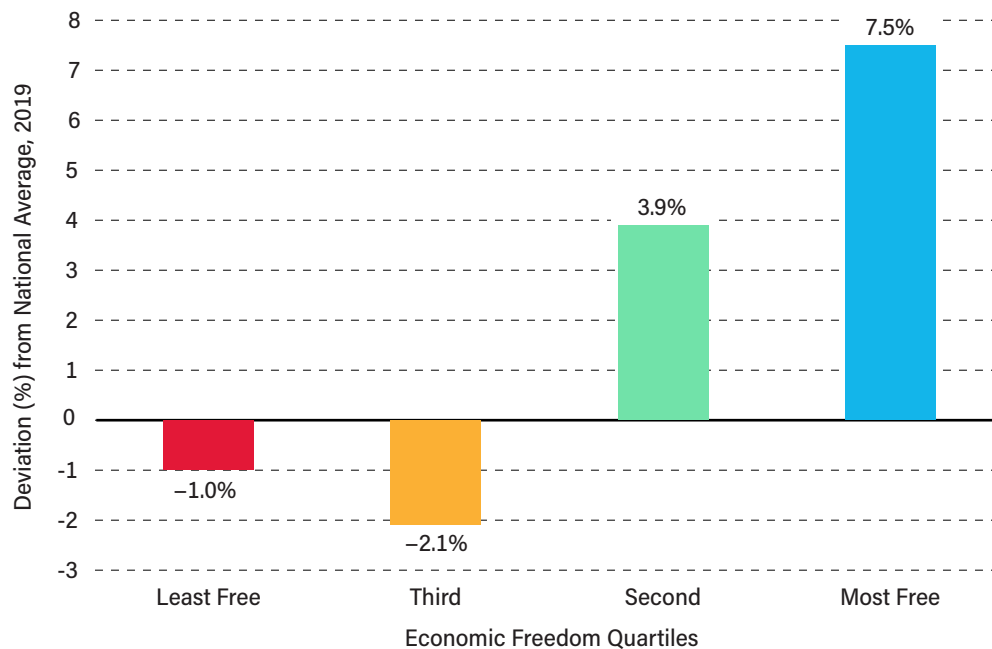
Finally, in this illustrative section, we look at the relationship between the growth of economic freedom and the growth of a jurisdiction’s economy. In **figure 1.5** and **figure 1.6**, growth in economic freedom is plotted along the horizontal axis while growth in income per capita is plotted along the vertical axis. Again, the expected relationships are found, with economic growth positively correlated with growth in economic freedom whether the latter is measured at the all-government level or the subnational level.

9. Since the subnational index scores are calculated separately for each country, we cannot average the scores of jurisdictions in different countries. Instead, we have calculated for each jurisdiction the deviation from the national average for both their economic freedom score and their per-capita income, and based the quartiles on the former.

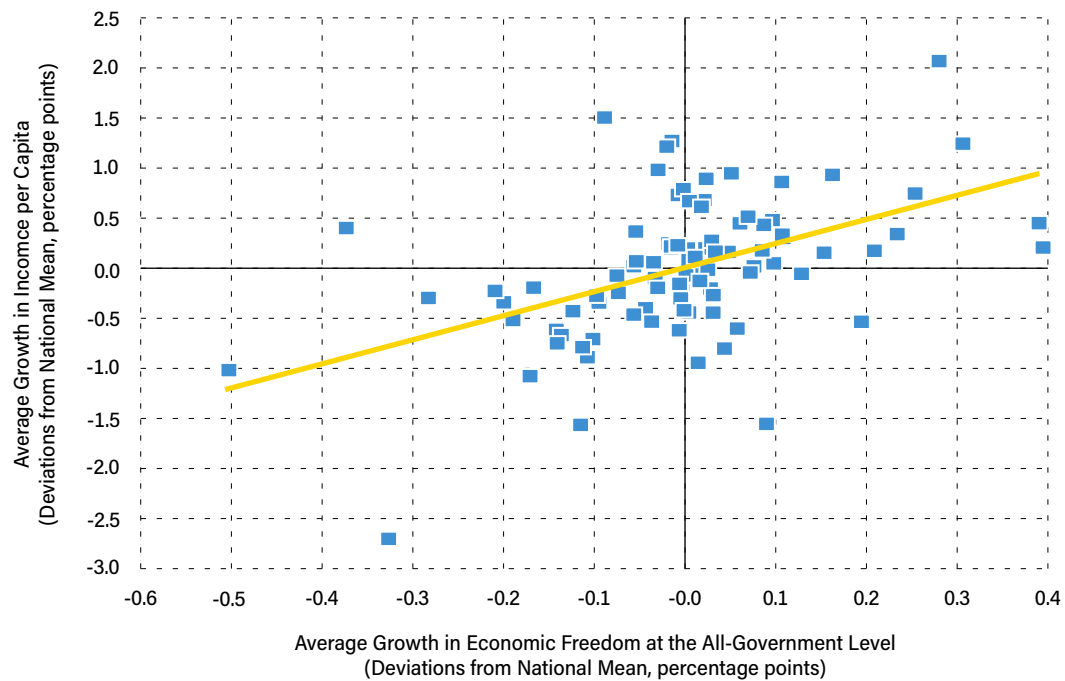
**Figure 1.3: Economic Freedom at the All-Government Level and Income per Capita in Canada, the United States, and Mexico, 2019**



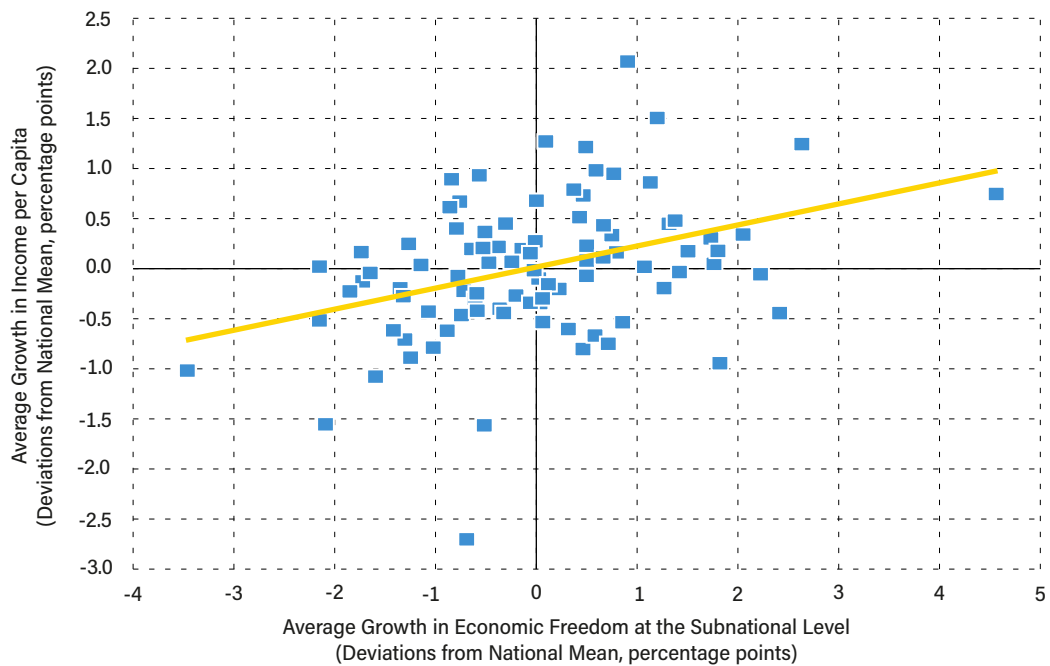
**Figure 1.4: Economic Freedom at the Subnational Level and Income per Capita—Deviation (%) from National Average, 2019**



**Figure 1.5: Average Growth in Income per Capita and in Economic Freedom at the All-Government Level, 2010–2019**



**Figure 1.6: Average Growth in Income per Capita and in Economic Freedom at the Subnational Level, 2010–2010**



### Comparing the all-government level and the subnational level

The distribution of government responsibilities between the federal government and subnational governments varies widely across the three nations in North America. For example, in 2019, provinces and local governments accounted for about 63% of total government revenue in Canada. In the United States, state and local governments were responsible for 37%, and in Mexico, for only 1.5%. Thus, government spending and taxation patterns cannot be directly compared. Rather than scoring US states, Canadian provinces, and Mexican states together, we produce separate subnational indices for each country. This provides a more useful comparison of how individual jurisdictions within each country measure up against other jurisdictions in that same country. For those who wish to compare jurisdictions in different countries, the all-government index is the more appropriate measure.

### Economic freedom and economic well-being

Many independent studies have linked levels of economic freedom, as measured by the index published annually in *Economic Freedom of the World*, with higher levels of economic growth and income. For example, Easton and Walker (1997) found that changes in economic freedom have a significant impact on the steady-state level of income even after the level of technology, the level of education of the workforce, and the level of investment are taken into account. The results of this study imply that economic freedom is a separate determinant of the level of income. The Fraser Institute's series, *Economic Freedom of the World*, also shows a positive relationship between economic freedom and both the level of per-capita GDP and its growth rate.

Similarly, De Haan and Sturm (2000) show that positive and negative changes in economic freedom lead to positive and negative changes in rates of economic growth. Using the index of economic freedom from Gwartney, Lawson, and Block, 1996 and per-capita GDP data for 80 countries, their results indicate that, after accounting for education level, investment, and population growth, changes in economic freedom have a significant impact on economic growth.<sup>10</sup>

The calculation of the index of the economic freedom of Canadian provinces and Mexican and US states allows for the investigation, via econometric testing, of the relationship between economic freedom and prosperity within North America. Since the publication of the first edition of *Economic Freedom of North America* in 2002, more than 330 academic and policy articles exploring the relationship between

10. For a sample of empirical papers investigating the impact of economic freedom, as measured by the index published annually in *Economic Freedom of the World*, and economic prosperity, see <<https://www.fraserinstitute.org/economic-freedom/citations>>. For a summary of literature on the impact of economic freedom at an international level, see Doucouliagos and Ulubasoglu, 2006; Hall and Lawson, 2014.

our measure of economic freedom and other indicators such as economic growth and entrepreneurial activity have appeared.<sup>11</sup> Findings have been similar to those using the national index. In one recent example, a 10% increase in economic freedom was found to be associated with a 5% increase in real per-capita gross state product (Hall, Lacombe, and Shaughnessy, 2019).

## The importance of economic freedom

In this publication, we have focused on the measurement of economic freedom. In Chapter 3 of the 2013 report, we discussed some of the empirical testing of the impact of economic freedom that has been done by other independent researchers.<sup>12</sup> However, the reader may wonder why economic freedom is so clearly related to growth and prosperity—as much of that literature has found. Throughout the twentieth century there was vigorous debate about whether planned or free economies produce the best outcomes. In many ways, this debate goes back to the beginnings of modern economics when Adam Smith famously argued that each of us, freely pursuing our own ends, create the wealth of nations and of the individual citizens.

The results of the experiments of the twentieth century should now be clear: free economies produce the greatest prosperity in human history for their citizens. Even poverty in these economically free nations would have been considered luxury in unfree economies. This lesson was reinforced by the collapse of centrally planned states in the Soviet sphere. Among developing nations, those that adopted the centrally planned model have only produced lives of misery for their citizens. Those that adopted the economics of competitive markets have begun to share with their citizens the prosperity of advanced market economies.

While these comparisons are extreme examples from opposite ends of the spectrum of economic freedom, a considerable body of research shows that the relationship between prosperity and economic freedom holds in narrower ranges. Sophisticated econometric testing backs up this relationship but examples are also interesting. In the United States, the relatively free Virginia does much better than the relatively unfree West Virginia. While this is hardly the place to review several centuries of economic debate, the mechanics of economic freedom are easy to understand. Any transaction freely entered into must benefit both parties; any transaction that does not benefit both parties would be rejected by the party that would come up short. This has consequences throughout the economy. Consumers who are free to choose will only be attracted by superior quality and price. Producers must constantly improve the price and quality of their products to meet customers' demands or customers will not freely enter into transactions with them. Many billions of mutually beneficial transactions occur every day, powering the dynamic that spurs increased productivity and wealth throughout the economy.

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11. For a selected list of the most recent works, see Appendix C (p. 71).

12. More recent surveys can be found in Stansel and Tuszynski, 2018 and Hall, Stansel, and Tarabar, 2015.



Restrictions on freedom prevent people from making mutually beneficial transactions. Such free transactions are replaced by government action. This is marked by coercion in collecting taxes and lack of choice in accepting services: instead of gains for both parties arising from each transaction, citizens must pay whatever bill is demanded in taxes and accept whatever service is offered in return. Moreover, while the incentives of producers in a competitive market revolve around providing superior goods and services in order to attract consumers, the public sector faces no such incentives. Instead, as public-choice theory reveals, incentives in the public sector often focus on rewarding interest groups, seeking political advantage, or even penalizing unpopular groups. This is far different from mutually beneficial exchange although, as noted earlier, government does have essential protective and productive functions.

In some ways, it is surprising the debate still rages because the evidence and theory favoring economic freedom match intuition: it makes sense that the drive and ingenuity of individuals will produce better outcomes through the mechanism of mutually beneficial exchange than the designs of a small coterie of government planners, who can hardly have knowledge of everyone's values and who, being human, are likely to consider first their own well-being and that of the constituencies they must please when making decisions for all of us.

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# Chapter 2

## Economic Freedom of the Mexican States in 2019

### Introduction

Measuring economic freedom in Mexico has always been difficult. Previous efforts to include Mexico in the index published in *Economic Freedom of North America* were successful in measuring the relative positions for economic freedom that Mexican states hold against each other, but the results were not fully comparable with those of the Canadian provinces or the US states. The advancement of those efforts and the adjustments introduced to the methodology in the 2012 and 2013 reports laid the groundwork that made it possible to build an integrated index for North America for the first time in the 2014 report. Since 2014, we have continued to make incremental improvements to the report each year.

Before proceeding to the analysis of the data we need to address the problems faced earlier while constructing the index of economic freedom for the Mexican States. There were two main reasons that the data collected for the Mexican economy was not comparable with that of the US states and Canadian provinces. First, most of the data for Mexico is incomplete and does not date as far back as the US and Canadian data do. The length of the Mexican time series should not cause too much trouble when the three countries are compared as most data are available for Mexico in a standardized way from 2003. Data from previous years is unreliable since the methods used for measuring aggregates were different than those currently used. These changes made it very difficult to work with long series because the data tend to vary widely from one methodology to another. The only feasible solution was to include only the standardized and trustworthy data for Mexico from 2003 to 2017. As for the incompleteness of the data, while most of the figures required for the components are available publicly to researchers from the National Institute of Statistics and Geography (INEGI), there is a portion that is scattered around in websites and yearbooks published by different departments of state, and states and municipal governments. Access to these data, while it is not restricted, requires that researchers have previous knowledge of its existence and of how and where to locate it. There are also some data, such as the social security payments required for component 1C,

that is not available to the public and in order to get access to it the researcher has to go through a series of bureaucratic procedures that may take months to be cleared and that require the researcher to visit government offices personally, making access impossible for most institutions outside the country. We have been able to acquire all the data that had been missing from the previous reports and, while some of the variables used are not identical to those used for the Canadian provinces and US states because of the differences in the methodologies, the differences among them is not significant and allow for comparison.

The second reason that the comparison among the three countries was not possible was that “the index of *Economic Freedom of North America* did not contain components on the rule of law or property rights” (Karabegović and McMahon, 2008: 69). This was because there had been little difference between Canada and the United States on scores for Legal System and Property Rights. However, after 2010 Canadian and US scores had begun to drift apart, making it necessary to modify the methodology in order to measure these changes properly. This issue was solved in 2012 by including variables for the rule of law from *Economic Freedom of the World* in the North American index.

The absence of variables measuring the legal system had been a huge concern in previous efforts to integrate Mexico into the North American index since Mexico does not enjoy the same degree of protection of property rights and rule of law. In previous measurements, additional components taken from publications and polls by other institutions were used to reflect the issues with the legal system in Mexico. Because these components were not available for the US states and Canadian provinces, the Mexican data, while more accurate in itself, could not be compared to the data from the other two countries. The inclusion of the rule-of-law components from *Economic Freedom of the World* opened the door to including Mexico fully in the North American report by reflecting the large gap between the rule of law in Mexico and that in its two northern neighbors.

Another factor that made it difficult to make a comparison among the three countries was the differences that exist in labor regulations. Mexican law, for example, makes the hiring and firing of workers by the private enterprise a very difficult task. The number of regulations applied to the labor market and its lack of flexibility are a huge impediment for free enterprise. Canada and the United States have much more flexible labor markets but these differences could not be reflected using the earlier methodology. Past reports included components that measured Credit Market Regulations and Business Regulations, both from Area 5 of *Economic Freedom of the World*; but, since the results for the labor market were similar for the United States and Canada, the components measuring labor market regulation were left out. Starting with the *Economic Freedom of North America 2015*, however, given the difference in policies on labor regulation between these two countries and Mexico, it was resolved to add as well the components of area 5B from *Economic Freedom of the World* to help reflect the effect of the differences in labor policies on the index and help make a better comparison.

## The data

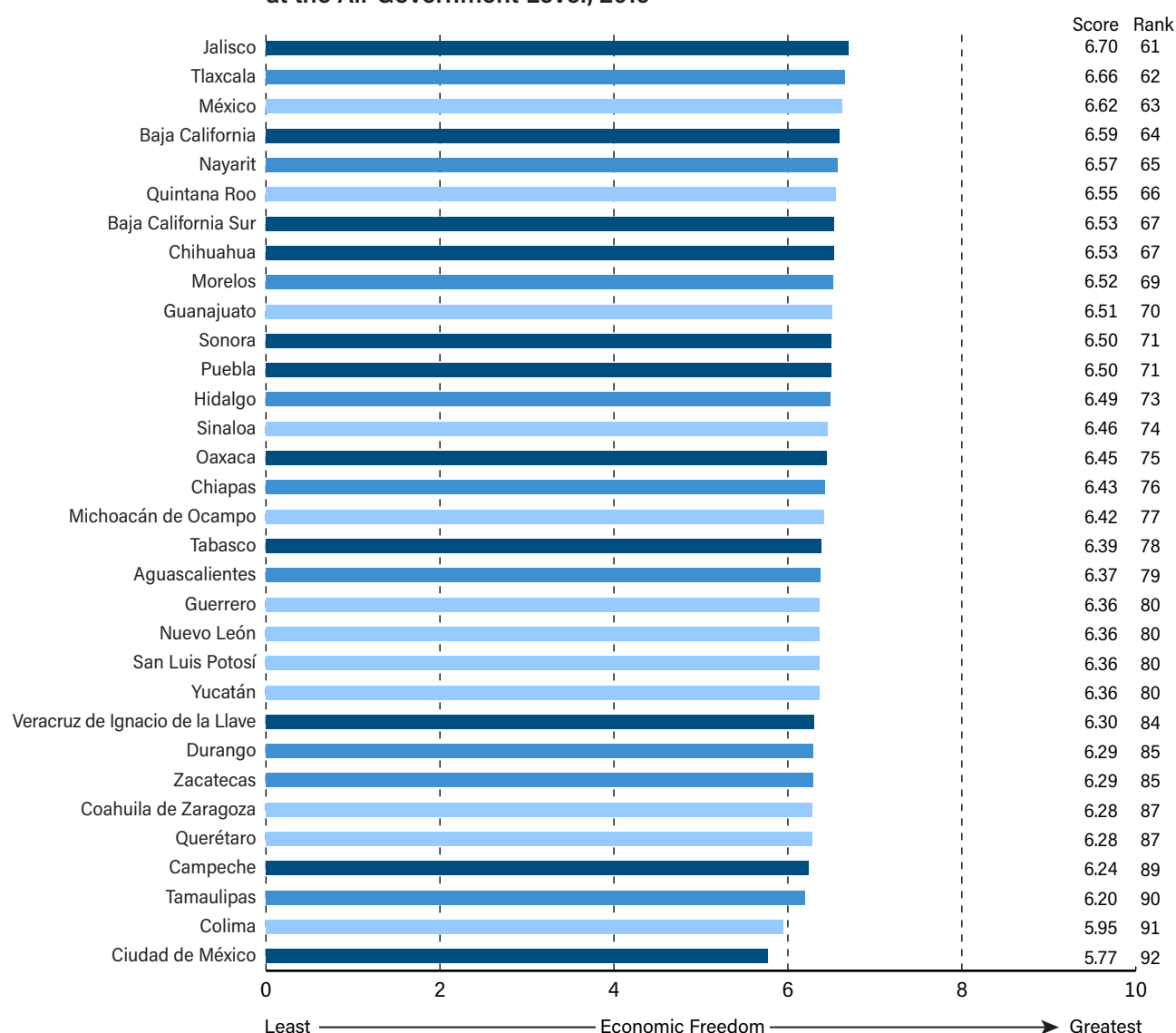
As previously stated, this year's report includes the complete data for the 10 components of *Economic Freedom of North America* from 2003 to 2019; the data covers the 32 Mexican states. Several adjustments have to be made in how the data were measured for Mexico. In Mexico, the *Comisión Nacional de Salarios Mínimos* (National Commission for the Minimum Wage) is the institution in charge of dividing the country into geographic zones and defining, annually, the minimum wage that is going to be applied on each zone. The 2,440 municipalities from the 31 states and the 16 boroughs of the former Federal District were previously classified in three geographic zones, A, B, and C. After November 26, 2012, zone C was eliminated leaving only two zones for the classification. Since the majority of the states contained municipalities classified in different geographic zones, there is no homogenous minimum wage for each state. In order to get a better estimate of the impact of the minimum wage on each state, this figure was estimated with a weighted average of the wages in the various zones (based on municipality populations). Starting in 2016, the zones were eliminated and the minimum wage was unified and set nationwide. This eliminated the need for estimating with weighted averages.

Personal income was estimated from the *Encuesta nacional de ingresos y gastos de los hogares* (National household income and spending poll, ENIGH), using the same formula that the US Bureau of Economic Analysis uses for their calculations. It is important to mention that because of the nature of this poll, household income tends to be underestimated since the respondents usually choose not to disclose their real income levels out of fear that they could get in trouble for any income they are not declaring to the *Servicio de Administración Tributaria* (Taxation administration service). For 2016, changes were made to the way the ENIGH measured income for the households. These new series were not compatible with the previous one. The National Council for the Evaluation of Social Development Policy (CONEVAL) put out an alternative measurement using a statistical adjustment for the new series in order to make them more comparable. For years 2015 and 2016, we estimated the Personal Income using this adjusted new series. Since 2018, the ENIGH measurement was reworked and it is now again compatible with both the old series and CONEVAL's own adjusted methodology.

## Results

The economic freedom ranking for the Mexican states in the all-government index for 2019 (**figure 2.1**) has *Baja California* in the first place, and *Nayarit*, *Tlaxcala*, *Jalisco*, and *Chihuahua* following in the next four places among Mexican states; they place 61<sup>st</sup> to 65<sup>th</sup> among all the states and provinces of North America. The lowest ranking was that of *Ciudad de México*; *Colima*, *Tamaulipas*, *Campeche*, and *Coahuila de Zaragoza* placed in the next four lowest rankings. *Colima* and *Ciudad de México* have placed in the bottom two positions since the inclusion of Mexico in the index.

**Figure 2.1: Summary of Economic Freedom Ratings for Mexican States at the All-Government Level, 2019**



*Coahuila de Zaragoza* was ranked in the top five among Mexican states on reports from 2013 to 2017 as a result of the forced austerity policies that had been applied by its government since the beginning of 2012 after the state's bankruptcy. With these policies, government expenditures were significantly reduced. This factor and the state's already relatively low level of taxation are what caused *Coahuila* to be ranked as high as it was in recent reports. This changed for 2016 when the austerity policies were relaxed and the government had the ability to increase spending and taxation. Since then, *Coahuila* has dropped 24 places from its 2017 ranking, and it now sits in the bottom 5 out of the 92 states and provinces of North America.

*Colima* and *Campeche*, two of the lowest ranked states, score poorly on both the Government Spending and Taxes areas. Their high tax revenue and high government spending makes them two of the four least economically free states of North

America. The reasons for the low ranking of the *Ciudad de México* are mainly its government consumption and tax revenue, which are the largest in the country; these could be explained in part because of *Ciudad de México*'s size and its importance in the economy and by the fact that all the federal government departments have their headquarters there. Nonetheless, the high level of government spending crowds out the space for free exchange and thus reduces economic freedom.

It is important to note that, for all the components of Area 2, there were difficulties when dealing with revenue: certain states such as *Oaxaca* and *Chiapas* reported very low tax revenue because of the large size of their informal sectors. However, most of this income is reported on the income and spending surveys conducted by INEGI, which is reflected in the personal income numbers, and thereby drives up the scores of these states but does not necessarily reflect the status of economic freedom there. This same problem would apply to the states like *Guerrero*, *Sinaloa*, *Michoacán*, *Guanajuato*, *Tamaulipas*, and *Nayarit*, where drug cartels and fuel-theft mafias are very active. This problem was, however, partially solved by our recent changes in the variables regarding sales and excise taxes and income taxes at the all-government level.<sup>1</sup> (See appendices A and B for a full description of the variables.) These issues also show the need of improvement in the measurement of the Rule of Law for the Mexican states.

## Economic freedom and well-being in the Mexican States

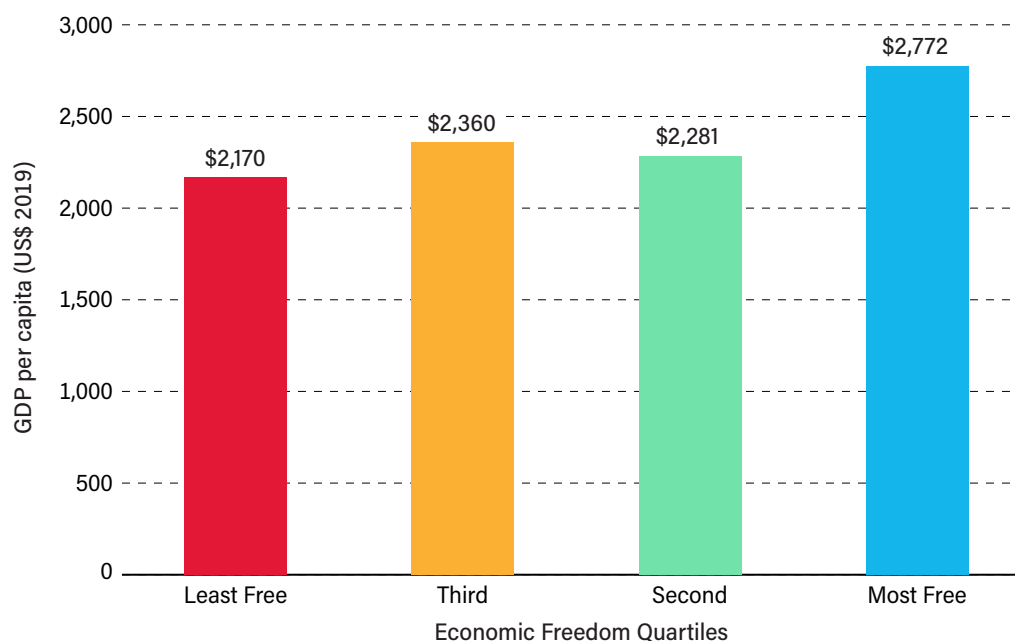
In past reports, there has been exhaustive analysis of the correlation between well-being and economic freedom. The relationship between these variables has always been positive and it has been concluded that economic freedom has a direct relationship to the well-being of a state's population. That conclusion has been supported by a large and growing literature produced by independent scholars, now over 330 published articles. (See Appendix C for a list of some of the most recent articles.) The positive relationship between economic freedom and personal income holds true for the Mexican states' data.

As can be seen in **figure 2.2**, there is indeed a positive relationship between the scores for economic freedom and the average personal income per capita: the states in the highest quartile of economic freedom have higher average personal income than those in the lowest quartile. The states belonging to the freest quartile have an average income of US\$2,772 per capita, about 27% higher than the average income of the least free quartile, US\$2,170. This statistical relationship, while by itself not conclusive of the connection between well-being and economic freedom, seems consistent with past years' econometric analysis on this relationship.

1. For the Mexican states, we take the national total of federal sales and excise tax revenue and divide it by the national total for personal income. That resulting ratio is used as the number for all 32 states on variable 2D in the all-government index. A similar approach is taken for the federal corporate income tax in all three countries. We take the national total of federal corporate income-tax revenue and divide it by the national total for personal income. That resulting ratio is used for all 32 states and added to the actual state numbers for individual income and payroll tax revenue as a percentage of personal income in each state to get the total figure for variable 2A in each state.



**Figure 2.2: Economic Freedom at the Subnational Level and Income per Capita (US\$ 2019) in Mexico, 2019**



Source: Instituto Nacional de Estadística y Geografía, 2019.

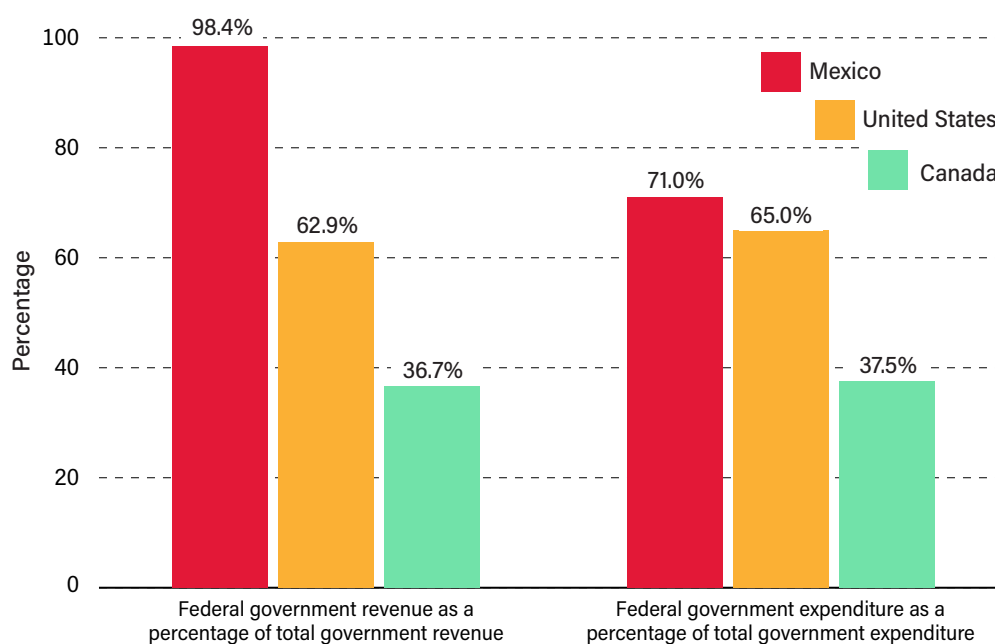
## Results at the subnational level

Mexico is a highly centralized country where the federal government is in charge of most of the spending and the taxation. For example, as **figure 2.3** shows, federal revenue for 2019 exceeded 98% of the total revenue at all levels, compared to 63% in the United States and about 37% in Canada. This degree of centralization has an impact on the components we can use for measuring an accurate ranking at the subnational level; there are a number of components that can only be measured at the federal level. Since there are no state or local income taxes in Mexico, in the subnational index component 2A (income and payroll taxes) contains only payroll taxes and there is no component 2B (the top marginal income-tax rate).

Component 1C poses a similar conflict. Social security in Mexico is almost totally centralized. Only one of the 32 states has its own Social Security institution, which serves only a minority of their population because the rest are already covered by either of the federal social security institutions (*Instituto Mexicano del Seguro Social* for the private sector and *Instituto de Seguridad Social y Servicio de los Trabajadores del Estado* for the public sector); the armed forces and the PEMEX workers also have their own social security institution. The inclusion of component 1C would worsen the ranks of the states that have their own social security institutes and raise the average ranks of the state that do not, making them appear to be much better off than those that do. We decided then not to include component 1C on the grounds that, while its inclusion would make a more accurate measurement of the



**Figure 2.3: Centralization of the First Three Areas of Economic Freedom of North America in Mexico, the United States, and Canada, 2019**



Cuenta de la Hacienda Pública Federal, Secretaría de Hacienda y Crédito Público (various years); Instituto Nacional de Estadística y Geografía (INEGI), Estadísticas de Finanzas Municipales y Estatales (various years); Statistics Canada (2020); US Office of Management and Budget (2021); table 14.1—Total Government Receipts in Absolute Amounts and as Percentages of GDP: 1948–2020, table 14.2—Total Government Expenditures: 1948–2020.

states with local social security, it would give an unfair advantage to the rest since the amount paid to the local social security agencies is not really significant given the centralization of the social security.

At the subnational level, for 2019 *Baja California*, *Michoacán*, and *Jalisco* were the three states with the highest rankings (**figure 1.2c**). *Baja California* and *Jalisco* were also in the top 5 on the all-government level so their ranking comes as no surprise as these states have high scores for Areas 1 and 3. *Michoacán* has the highest score among Mexican states for Area 2 and above-average scores for Areas 1 and 3, which accounts for its high ranking at the subnational level. In the All-government index, however, it drops to place 15<sup>th</sup> out of 32.

For Area 1 at the subnational level, *Ciudad de México* ranked 5<sup>th</sup> among the Mexican states. *Ciudad de México* has a significant advantage on this particular area over the states because it has only one level of subnational government. The poorest scores for this area belonged to *Chiapas*, *Tabasco*, *Campeche*, *Oaxaca*, and *Guerrero*. These states are among the least developed in the country, which makes them receivers of large subsidies and transfers; these in turn account for a high level of government spending.

*Oaxaca*, *Chiapas*, and *Michoacán de Ocampo* held the top three ranks for Area 2. The high rankings of these three states are mostly because a large part of their populations work in the informal sector because of poverty or the prominence of drug cartels

in the area and, thus, are not registered in the *Registro Federal de Contribuyentes* (Federal Registry of Taxpayers) and do not pay any direct taxes. *Queretaro*, *Quintana Roo*, and *Ciudad de Mexico* are the three states with the lowest scores.

*Baja California*, *Ciudad de México*, and *Chihuahua* ranked at the top for Area 3. *Ciudad de México*, while having the largest ratio of government employment to total employment, also has the lowest income-weighted minimum wage and ranks at the top in component 3Aiii. The degree to which the minimum wage is binding on labor markets depends on the level of income. In higher income areas, the now unified Mexican minimum wage is by definition less binding on the labor market in that area. *Ciudad de Mexico* has the highest income amongst the 32 states. *Tabasco*, *Zacatecas*, and *Guerrero* had the lowest scores for this area.

## Conclusion

This is the eighth year that Mexico has been included in the index published in *Economic Freedom of North America*. Since the conception of the index, many changes in the methodology were needed to make it possible to reflect not only the circumstantial but the structural differences between legislation and policies in Canada, the United States, and Mexico. Mexico's highly centralized government, excessive regulation, and lack of an effective legal system that protects property rights is still a drag on economic freedom and it is certainly what causes the country's states to rank so low when compared to the Canadian provinces and US states.

*Baja California*, *Nayarit*, *Tlaxcala*, *Jalisco*, and *Chihuahua* were the highest-ranked Mexican states at the all-government level, ranking 61<sup>st</sup> to 65<sup>th</sup> among their North American peers. *Coahuila*, which had ranked in the top 3 since 2014 and owed its ranking to the forced policy of austerity adopted to repair years of reckless spending and irresponsible debt contracting, has for the past three years remained one of the lowest ranked Mexican states. The lowest rankings were held by *Ciudad de México* (92<sup>nd</sup>), *Colima* (91<sup>st</sup>), and *Tamaulipas* (90<sup>th</sup>).

In the subnational rankings, *Baja California*, *Michoacán de Ocampo*, and *Jalisco* were the top-ranked states. *Zacatecas*, *Campeche*, and *Tabasco* were the lowest ranked.

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# Chapter 3

## Detailed Tables of Economic Freedom in Canada, the United States, and Mexico

The following tables provide more information on economic freedom in the provinces and states as measured by the index of economic freedom in North America at the all-government and the subnational levels. At the all-government level, the index measures the impact of all levels of government—federal, provincial/state, and municipal/local—in Canada, the United States, and Mexico. At the subnational level, it measures the impact of provincial and municipal governments on economic freedom in Canada and state and local governments in the United States and Mexico.

In addition to the tables found in chapter 3, our interactive website at <<https://www.fraserinstitute.org/economic-freedom>> contains all the latest scores and rankings for each of the components of the index as well as historical data on the overall and area scores. The full dataset is also available for download at that same website.

### Economic Freedom in Canada, the United States, and Mexico

Tables 3.1 (a, b, c) and 3.2 (a, b, c) provide a detailed summary of the scores for 2019. Tables 3.3 (a, b, c) to 3.10 (a, b, c) provide historical information both for the overall index and for each of Area 1: Government Spending; Area 2: Taxes; and Area 3: Labor Market Regulation. Economic freedom is measured on a scale from zero to 10, where a higher value indicates a higher level of economic freedom.

Detailed data for the world-adjusted scores, taken from the *Economic Freedom of the World: 2021 Annual Report* (Gwartney, Lawson, Hall, and Murphy, 2021), are not included; they can be found in that publication. Tables 3.3 (a, b, c) to 3.10 (a, b, c) show data for a selection of years. The full set of data from 1981 to 2019 and all other data included in this report are available at <[www.fraserinstitute.org/studies/economic-freedom](https://www.fraserinstitute.org/studies/economic-freedom)>.

Table 3.1a: Canada—Economic Freedom at the All-Government Level, 2019

	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Overall Index	Rank*
<b>Average</b>	<b>7.60</b>	<b>5.40</b>	<b>8.05</b>	<b>8.04</b>	<b>9.66</b>	<b>7.69</b>	<b>7.74</b>	
Alberta	8.69	5.76	8.14	8.04	9.66	7.69	8.00	33
British Columbia	8.42	5.55	8.09	8.04	9.66	7.69	7.91	47
Manitoba	7.77	5.36	7.98	8.04	9.66	7.69	7.75	55
New Brunswick	6.80	5.47	8.07	8.04	9.66	7.69	7.62	57
Newfoundland & Labrador	6.78	5.41	8.03	8.04	9.66	7.69	7.60	59
Nova Scotia	6.84	5.37	8.07	8.04	9.66	7.69	7.61	58
Ontario	8.33	5.19	8.10	8.04	9.66	7.69	7.83	52
Prince Edward Island	6.56	5.55	8.00	8.04	9.66	7.69	7.58	60
Quebec	7.94	5.00	7.93	8.04	9.66	7.69	7.71	56
Saskatchewan	7.86	5.34	8.07	8.04	9.66	7.69	7.78	54

\* Rank out of 92, 2019

Table 3.1b: Mexico—Economic Freedom at the All-Government Level, 2019

	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Overall Index	Rank*
<b>Average</b>	<b>5.23</b>	<b>5.36</b>	<b>7.13</b>	<b>4.69</b>	<b>8.20</b>	<b>7.71</b>	<b>6.39</b>	
Aguascalientes	5.10	5.51	7.17	4.69	8.20	7.71	6.40	77
Baja California	6.71	5.24	7.32	4.69	8.20	7.71	6.65	61
Baja California Sur	5.01	5.47	7.26	4.69	8.20	7.71	6.39	78
Campeche	4.06	5.49	7.12	4.69	8.20	7.71	6.21	89
Coahuila de Zaragoza	4.59	5.23	7.03	4.69	8.20	7.71	6.24	88
Colima	4.17	3.59	7.19	4.69	8.20	7.71	5.93	91
Chiapas	5.14	6.13	7.07	4.69	8.20	7.71	6.49	70
Chihuahua	6.21	5.47	7.30	4.69	8.20	7.71	6.60	64
Ciudad de México	3.25	2.63	7.29	4.69	8.20	7.71	5.63	92
Durango	4.48	5.78	7.09	4.69	8.20	7.71	6.33	83
Guanajuato	5.63	5.61	7.11	4.69	8.20	7.71	6.49	70
Guerrero	4.71	6.00	7.02	4.69	8.20	7.71	6.39	78
Hidalgo	5.13	6.05	7.06	4.69	8.20	7.71	6.47	74
Jalisco	6.62	5.15	7.23	4.69	8.20	7.71	6.60	64
México	5.80	5.39	7.09	4.69	8.20	7.71	6.48	73
Michoacán de Ocampo	6.16	4.72	7.14	4.69	8.20	7.71	6.44	75
Morelos	5.47	5.87	7.11	4.69	8.20	7.71	6.51	69
Nayarit	6.02	5.90	7.16	4.69	8.20	7.71	6.62	62
Nuevo León	6.11	4.36	7.25	4.69	8.20	7.71	6.39	78
Oaxaca	5.30	6.27	7.05	4.69	8.20	7.71	6.54	66
Puebla	5.84	5.68	7.05	4.69	8.20	7.71	6.53	67
Querétaro	5.20	4.55	7.21	4.69	8.20	7.71	6.26	87
Quintana Roo	5.27	4.93	7.13	4.69	8.20	7.71	6.32	84
San Luis Potosí	4.68	5.61	7.05	4.69	8.20	7.71	6.32	84
Sinaloa	5.53	5.61	7.20	4.69	8.20	7.71	6.49	70
Sonora	5.71	5.62	7.22	4.69	8.20	7.71	6.53	67
Tabasco	4.81	5.69	7.06	4.69	8.20	7.71	6.36	81
Tamaulipas	4.63	4.70	7.00	4.69	8.20	7.71	6.16	90
Tlaxcala	5.88	6.16	6.99	4.69	8.20	7.71	6.61	63
Veracruz de Ignacio de la Llave	4.49	5.54	7.02	4.69	8.20	7.71	6.28	86
Yucatán	5.06	5.64	7.15	4.69	8.20	7.71	6.41	76
Zacatecas	4.66	5.83	7.00	4.69	8.20	7.71	6.35	82

\* Rank out of 92, 2019

Table 3.1c: United States—Economic Freedom at the All-Government Level, 2019

	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Overall Index	Rank*
<b>Average</b>	<b>7.49</b>	<b>7.19</b>	<b>8.46</b>	<b>7.54</b>	<b>9.72</b>	<b>7.83</b>	<b>8.04</b>	
Alabama	7.13	7.84	8.48	7.54	9.72	7.83	8.09	17
Alaska	6.66	8.05	8.35	7.54	9.72	7.83	8.03	27
Arizona	7.51	7.53	8.36	7.54	9.72	7.83	8.08	20
Arkansas	7.39	6.93	8.47	7.54	9.72	7.83	7.98	38
California	7.41	6.81	8.36	7.54	9.72	7.83	7.95	43
Colorado	7.66	7.35	8.43	7.54	9.72	7.83	8.09	17
Connecticut	7.71	6.89	8.43	7.54	9.72	7.83	8.02	30
Delaware	7.32	5.85	8.47	7.54	9.72	7.83	7.79	53
Florida	7.98	7.42	8.53	7.54	9.72	7.83	8.17	2
Georgia	7.78	7.25	8.58	7.54	9.72	7.83	8.12	9
Hawaii	7.18	6.80	8.22	7.54	9.72	7.83	7.88	49
Idaho	7.77	7.52	8.55	7.54	9.72	7.83	8.16	3
Illinois	7.55	6.85	8.42	7.54	9.72	7.83	7.99	35
Indiana	7.81	7.29	8.51	7.54	9.72	7.83	8.12	9
Iowa	7.62	7.17	8.56	7.54	9.72	7.83	8.07	22
Kansas	7.78	7.08	8.53	7.54	9.72	7.83	8.08	20
Kentucky	6.79	7.19	8.49	7.54	9.72	7.83	7.93	46
Louisiana	7.20	7.26	8.56	7.54	9.72	7.83	8.02	30
Maine	7.69	7.07	8.30	7.54	9.72	7.83	8.03	27
Maryland	7.46	6.98	8.43	7.54	9.72	7.83	7.99	35
Massachusetts	7.58	6.77	8.42	7.54	9.72	7.83	7.98	38
Michigan	7.56	7.38	8.35	7.54	9.72	7.83	8.06	23
Minnesota	7.79	6.09	8.41	7.54	9.72	7.83	7.90	48
Mississippi	6.56	7.56	8.46	7.54	9.72	7.83	7.95	43
Missouri	7.46	7.18	8.39	7.54	9.72	7.83	8.02	30
Montana	7.55	7.74	8.43	7.54	9.72	7.83	8.14	7
Nebraska	7.89	6.91	8.49	7.54	9.72	7.83	8.06	23
Nevada	7.75	7.39	8.40	7.54	9.72	7.83	8.11	12
New Hampshire	8.18	7.58	8.54	7.54	9.72	7.83	8.23	1
New Jersey	7.88	6.50	8.38	7.54	9.72	7.83	7.98	38
New Mexico	6.66	7.68	8.42	7.54	9.72	7.83	7.97	41
New York	7.35	6.36	8.29	7.54	9.72	7.83	7.85	51
North Carolina	7.55	7.32	8.60	7.54	9.72	7.83	8.09	17
North Dakota	7.56	7.40	8.58	7.54	9.72	7.83	8.11	12
Ohio	7.40	6.81	8.42	7.54	9.72	7.83	7.95	43
Oklahoma	7.62	7.36	8.53	7.54	9.72	7.83	8.10	14
Oregon	7.35	7.26	8.32	7.54	9.72	7.83	8.00	33
Pennsylvania	7.42	7.16	8.51	7.54	9.72	7.83	8.03	27
Rhode Island	7.17	6.66	8.31	7.54	9.72	7.83	7.87	50
South Carolina	7.59	7.62	8.60	7.54	9.72	7.83	8.15	4
South Dakota	7.52	7.49	8.52	7.54	9.72	7.83	8.10	14
Tennessee	7.68	7.43	8.58	7.54	9.72	7.83	8.13	8
Texas	7.84	7.17	8.60	7.54	9.72	7.83	8.12	9
Utah	7.79	7.43	8.57	7.54	9.72	7.83	8.15	4
Vermont	7.37	6.90	8.39	7.54	9.72	7.83	7.96	42
Virginia	7.48	7.38	8.63	7.54	9.72	7.83	8.10	14
Washington	7.88	7.11	8.25	7.54	9.72	7.83	8.05	25
West Virginia	6.81	7.66	8.39	7.54	9.72	7.83	7.99	35
Wisconsin	7.49	7.19	8.55	7.54	9.72	7.83	8.05	25
Wyoming	7.50	7.71	8.58	7.54	9.72	7.83	8.15	4

\* Rank out of 92, 2019

Table 3.2a: Canada—Economic Freedom at the Subnational Level, 2019

	1A	1B	1C	2A	2B	2C	2D	3Ai	3Aii	3Aiii	Area 1	Area 2	Area 3	Overall Index	Rank*
<b>Average</b>	<b>1.62</b>	<b>5.60</b>	<b>5.99</b>	<b>5.01</b>	<b>5.00</b>	<b>6.43</b>	<b>2.97</b>	<b>3.34</b>	<b>4.19</b>	<b>6.30</b>	<b>4.40</b>	<b>4.85</b>	<b>4.61</b>	<b>4.62</b>	
Alberta	2.94	7.45	7.72	5.67	6.00	5.03	10.00	2.76	7.30	7.33	6.04	6.68	5.79	6.17	1
British Columbia	4.42	8.45	4.20	7.20	5.50	6.35	3.65	3.32	8.64	2.89	5.69	5.67	4.95	5.44	2
Manitoba	0.00	8.41	10.00	4.83	5.00	4.80	3.30	3.19	2.42	5.87	6.14	4.48	3.83	4.82	4
New Brunswick	0.00	6.44	0.00	6.05	5.00	7.82	1.33	3.18	3.02	9.06	2.15	5.05	5.09	4.09	9
Newfoundland & Lab.	0.00	8.06	4.56	4.99	5.00	9.46	0.23	5.33	0.00	7.55	4.20	4.92	4.30	4.47	6
Nova Scotia	0.00	6.70	3.20	3.07	3.50	8.75	1.91	3.54	2.68	8.78	3.30	4.31	5.00	4.20	7
Ontario	4.36	5.45	9.37	4.09	5.00	4.94	3.41	2.15	8.39	4.98	6.39	4.36	5.18	5.31	3
Prince Edward Island	0.41	3.33	7.05	5.59	4.00	9.10	1.10	1.72	5.94	4.46	3.60	4.95	4.04	4.20	7
Quebec	4.02	0.00	3.78	0.00	4.50	4.42	2.88	3.27	3.49	2.08	2.60	2.95	2.95	2.83	10
Saskatchewan	0.00	1.71	10.00	8.63	6.50	3.63	1.86	4.95	0.00	10.00	3.90	5.16	4.98	4.68	5

\* Rank out of 10, 2019

Table 3.2b: Mexico—Economic Freedom at the Subnational Level, 2019

	1A	1B	1C	2A	2B	2C	2D	3Ai	3Aii	3Aiii	Area 1	Area 2	Area 3	Overall Index	Rank*
<b>Average</b>	<b>5.99</b>	<b>2.76</b>		<b>2.18</b>		<b>3.61</b>		<b>2.54</b>	<b>7.43</b>	<b>7.02</b>	<b>4.38</b>	<b>2.89</b>	<b>5.66</b>	<b>4.31</b>	
Aguascalientes	8.37	1.95		0.68		5.29		3.54	5.72	6.69	5.16	2.98	5.32	4.49	14
Baja California	9.18	6.23		1.96		1.88		6.21	9.83	9.16	7.71	1.92	8.40	6.01	1
Baja California Sur	8.09	2.65		2.62		0.00		7.14	7.88	5.03	5.37	1.31	6.68	4.45	17
Campeche	0.84	2.45		0.00		3.00		1.59	4.31	7.45	1.64	1.50	4.45	2.53	32
Coahuila de Zaragoza	6.43	6.78		0.00		4.12		3.29	8.31	1.02	6.60	2.06	4.21	4.29	20
Colima	7.31	0.00		3.69		0.00		4.82	6.82	5.78	3.66	1.85	5.80	3.77	26
Chiapas	2.75	0.00		3.93		8.30		0.00	6.68	9.70	1.38	6.12	5.46	4.32	19
Chihuahua	7.67	3.84		0.00		2.55		6.36	9.55	8.13	5.75	1.27	8.01	5.01	4
Ciudad de México	5.62	7.15		0.00		0.00		6.70	9.89	7.52	6.39	0.00	8.04	4.81	7
Durango	4.64	3.36	No state or local spending in this category.	6.38		0.00		1.27	5.88	6.80	4.00	3.19	4.65	3.95	23
Guanajuato	5.81	5.07		0.06		4.85		0.74	9.19	8.66	5.44	2.45	6.20	4.70	9
Guerrero	3.71	0.00		6.89	No state or local income taxes.	3.15	No state or local sales taxes.	0.00	4.43	7.48	1.85	5.02	3.97	3.61	27
Hidalgo	6.97	0.00		2.89		6.90		0.00	6.86	8.65	3.49	4.90	5.17	4.52	13
Jalisco	7.44	6.99		3.42		2.49		4.19	8.65	8.34	7.22	2.95	7.06	5.74	3
México	5.85	0.51		0.00		0.00		0.62	10.00	8.28	3.18	0.00	6.30	3.16	29
Michoacán de Ocampo	4.83	6.66		4.40		7.64		1.17	7.27	9.06	5.75	6.02	5.83	5.87	2
Morelos	8.16	0.00		5.45		2.89		0.51	8.61	8.86	4.08	4.17	5.99	4.75	8
Nayarit	7.40	0.14		6.56		2.27		3.54	6.39	6.52	3.77	4.42	5.48	4.56	12
Nuevo León	8.61	5.24		0.00		1.52		6.40	9.62	6.00	6.93	0.76	7.34	5.01	4
Oaxaca	3.56	0.00		4.64		8.07		0.00	7.18	8.83	1.78	6.36	5.34	4.49	14
Puebla	6.04	4.54		1.80		3.94		0.00	10.00	9.55	5.29	2.87	6.52	4.89	6
Querétaro	8.33	2.02		0.00		0.00		4.13	8.28	7.55	5.17	0.00	6.65	3.94	24
Quintana Roo	7.12	1.23		0.00		0.00		3.48	8.18	5.05	4.18	0.00	5.57	3.25	28
San Luis Potosí	7.21	0.00		0.39		6.63		1.12	6.51	5.45	3.60	3.51	4.36	3.82	25
Sinaloa	8.71	0.25		3.20		2.12		3.82	6.93	7.40	4.48	2.66	6.05	4.40	18
Sonora	8.24	0.83		3.30		1.87		5.65	8.75	5.61	4.54	2.59	6.67	4.60	11
Tabasco	1.52	1.75		0.00		8.05		0.09	1.83	7.43	1.64	4.03	3.12	2.93	30
Tamaulipas	5.42	6.23		0.00		7.09		3.30	9.03	0.00	5.82	3.54	4.11	4.49	14
Tlaxcala	6.60	0.00		2.75		8.95		0.00	7.85	6.50	3.30	5.85	4.78	4.64	10
Veracruz de Ignacio ...	0.77	5.14		1.25		6.26		0.00	7.91	7.92	2.96	3.75	5.28	4.00	22
Yucatán	5.99	4.87		0.97		2.10		1.76	5.44	8.53	5.43	1.53	5.24	4.07	21
Zacatecas	2.63	2.34		2.41		3.49		0.00	4.14	5.54	2.48	2.95	3.23	2.89	31

\* Rank out of 32, 2019



Table 3.2c: United States—Economic Freedom at the Subnational Level, 2019

	1A	1B	1C	2A	2B	2C	2D	3Ai	3Aii	3Aiii	Area 1	Area 2	Area 3	Overall Index	Rank*
<b>Average</b>	<b>7.46</b>	<b>6.67</b>	<b>5.61</b>	<b>5.99</b>	<b>7.38</b>	<b>5.61</b>	<b>5.04</b>	<b>6.19</b>	<b>7.20</b>	<b>5.31</b>	<b>6.58</b>	<b>6.01</b>	<b>6.23</b>	<b>6.27</b>	
Alabama	6.64	4.60	6.13	6.62	8.00	10.00	4.00	6.44	5.45	6.76	5.79	7.16	6.21	6.39	28
Alaska	2.33	6.68	0.70	9.01	10.00	4.80	8.69	6.56	3.63	4.17	3.24	8.13	4.79	5.38	39
Arizona	9.10	6.62	7.07	7.53	8.00	7.73	3.46	0.00	8.66	6.14	7.59	6.68	4.93	6.40	25
Arkansas	6.95	6.25	6.53	5.99	6.00	9.55	2.57	3.16	6.12	7.96	6.58	6.03	5.75	6.12	31
California	6.70	4.20	2.45	2.33	3.00	6.02	5.58	5.27	8.14	2.67	4.45	4.23	5.36	4.68	49
Colorado	9.50	7.60	5.99	5.84	7.00	6.44	5.46	4.02	7.49	5.64	7.70	6.18	5.72	6.53	21
Connecticut	10.00	9.10	4.64	4.45	7.00	3.32	6.22	8.11	8.41	2.73	7.91	5.25	6.42	6.53	21
Delaware	6.05	0.29	6.70	3.84	6.00	0.00	9.35	5.99	7.78	5.49	4.34	4.80	6.42	5.19	42
Florida	9.39	8.17	8.25	10.00	10.00	6.15	4.25	6.51	10.00	4.88	8.61	7.60	7.13	7.78	3
Georgia	9.57	7.62	6.54	6.02	7.00	7.42	5.98	7.49	8.78	6.92	7.91	6.60	7.73	7.42	6
Hawaii	7.04	9.16	5.07	4.50	4.00	6.36	0.00	5.47	7.83	0.00	7.09	3.71	4.43	5.08	44
Idaho	8.71	8.53	6.90	5.98	6.00	7.44	5.57	6.93	6.91	7.47	8.05	6.25	7.10	7.13	8
Illinois	8.80	9.13	1.37	5.81	7.00	3.26	4.94	6.97	8.45	3.23	6.43	5.26	6.22	5.97	32
Indiana	8.02	4.90	9.56	6.39	8.00	8.24	4.18	7.61	8.13	5.35	7.49	6.70	7.03	7.07	11
Iowa	6.60	5.94	6.25	5.34	7.50	4.31	5.23	8.29	5.82	7.32	6.26	5.60	7.14	6.33	30
Kansas	7.59	9.83	7.68	5.74	7.00	6.10	4.38	8.62	4.83	6.97	8.37	5.81	6.80	6.99	12
Kentucky	6.50	2.32	3.45	4.13	7.00	9.07	4.72	6.33	6.99	6.11	4.09	6.23	6.48	5.60	37
Louisiana	6.33	6.69	3.86	7.05	8.00	9.36	2.00	7.30	6.93	7.50	5.63	6.60	7.24	6.49	23
Maine	7.10	7.63	6.62	5.49	6.00	0.00	5.08	0.90	7.73	4.00	7.12	4.14	4.21	5.16	43
Maryland	8.54	5.84	6.80	2.93	8.00	6.53	6.30	5.98	8.81	3.83	7.06	5.94	6.21	6.40	25
Massachusetts	8.65	8.69	5.72	3.22	7.00	4.70	7.85	5.86	10.00	3.01	7.69	5.69	6.29	6.56	19
Michigan	6.86	6.68	4.95	6.18	8.00	5.59	5.95	4.04	8.37	3.15	6.16	6.43	5.19	5.93	34
Minnesota	7.44	4.78	5.83	3.04	5.00	5.64	4.89	6.01	7.90	3.67	6.02	4.64	5.86	5.51	38
Mississippi	4.30	6.17	3.13	6.96	7.00	6.39	2.83	4.76	3.54	8.32	4.53	5.79	5.54	5.29	40
Missouri	8.36	8.97	5.14	6.19	8.00	8.05	5.63	4.16	7.91	4.39	7.49	6.97	5.49	6.65	17
Montana	7.44	9.17	4.66	4.82	8.00	4.00	9.14	5.70	6.83	5.16	7.09	6.49	5.89	6.49	23
Nebraska	8.43	8.46	8.26	5.80	6.00	3.47	6.06	6.40	6.70	6.22	8.38	5.33	6.44	6.72	16
Nevada	9.80	5.73	5.73	10.00	10.00	6.70	0.00	6.63	10.00	1.40	7.08	6.68	6.01	6.59	18
New Hampshire	10.00	7.27	8.96	8.75	10.00	0.00	9.37	10.00	8.91	4.22	8.74	7.03	7.71	7.83	1
New Jersey	9.26	7.93	4.16	4.50	4.00	0.74	6.67	7.05	8.27	2.24	7.12	3.98	5.86	5.65	36
New Mexico	3.18	7.62	2.09	7.10	7.00	8.62	1.03	3.12	2.63	8.64	4.30	5.94	4.80	5.01	46
New York	5.71	6.58	2.43	0.45	6.00	1.64	5.10	6.42	7.33	0.63	4.90	3.30	4.79	4.33	50
North Carolina	7.97	5.96	7.80	5.76	7.00	7.92	5.29	7.38	6.88	8.55	7.25	6.49	7.61	7.11	10
North Dakota	6.82	7.28	6.80	7.61	10.00	6.31	3.47	9.28	5.88	7.45	6.97	6.85	7.54	7.12	9
Ohio	6.96	6.71	1.25	5.51	8.00	6.66	4.75	5.75	8.04	4.08	4.97	6.23	5.96	5.72	35
Oklahoma	8.82	6.58	7.09	6.98	7.00	8.93	4.33	7.28	4.88	7.81	7.50	6.81	6.66	6.99	12
Oregon	4.81	8.20	2.25	1.39	6.50	4.29	9.45	2.86	8.02	3.09	5.09	5.41	4.66	5.05	45
Pennsylvania	7.56	6.03	5.05	4.83	8.00	5.58	5.54	9.44	10.00	3.02	6.22	5.98	7.49	6.56	19
Rhode Island	6.53	7.36	2.75	5.06	8.00	1.75	5.67	4.79	9.48	0.97	5.55	5.12	5.08	5.25	41
South Carolina	6.91	2.99	6.83	6.70	6.00	5.98	6.20	6.78	6.16	9.21	5.57	6.22	7.39	6.39	28
South Dakota	9.82	7.43	7.61	10.00	10.00	5.88	3.47	5.80	6.62	7.38	8.29	7.34	6.60	7.41	7
Tennessee	9.35	5.00	8.57	9.65	10.00	8.72	4.05	7.61	8.85	6.68	7.64	8.10	7.71	7.82	2
Texas	9.58	8.13	7.48	10.00	10.00	3.95	3.53	8.50	8.37	7.05	8.40	6.87	7.97	7.75	4
Utah	7.92	3.49	8.31	4.55	7.00	8.14	4.65	7.68	7.84	7.05	6.58	6.09	7.52	6.73	15
Vermont	4.28	3.52	7.71	5.15	6.00	0.00	5.26	3.87	6.99	5.07	5.17	4.10	5.31	4.86	48
Virginia	9.20	7.64	7.92	5.30	7.00	5.69	7.23	9.67	7.48	7.52	8.25	6.31	8.22	7.59	5
Washington	9.01	6.80	6.59	9.71	10.00	5.84	0.71	3.09	6.48	2.07	7.47	6.57	3.88	5.97	32
West Virginia	5.00	4.93	4.29	5.03	6.00	7.44	3.92	3.19	3.52	7.26	4.74	5.60	4.66	5.00	47
Wisconsin	7.76	6.35	4.76	4.83	6.00	5.50	6.05	8.57	7.28	6.07	6.29	5.59	7.31	6.40	25
Wyoming	3.78	10.00	3.85	9.44	10.00	4.46	5.90	10.00	1.81	9.12	5.88	7.45	6.97	6.77	14

\* Rank out of 50, 2019

Table 3.3a: Canada—Economic Freedom at the All-Government Level, 2003–2019

	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.93</b>	<b>7.88</b>	<b>7.90</b>	<b>7.85</b>	<b>7.78</b>	<b>7.91</b>	<b>7.93</b>	<b>7.85</b>	<b>7.75</b>	<b>7.74</b>	
Alberta	8.30	8.30	8.26	8.19	8.15	8.28	8.30	8.14	8.03	8.00	33
British Columbia	8.11	8.09	8.09	8.03	7.95	8.07	8.08	8.05	7.92	7.91	47
Manitoba	7.90	7.86	7.87	7.84	7.75	7.86	7.91	7.87	7.76	7.75	55
New Brunswick	7.87	7.82	7.83	7.77	7.71	7.81	7.76	7.72	7.63	7.62	57
Newfoundland & Labrador	7.70	7.66	7.72	7.72	7.66	7.85	7.88	7.69	7.60	7.60	59
Nova Scotia	7.93	7.86	7.82	7.75	7.63	7.75	7.78	7.71	7.63	7.61	58
Ontario	8.06	8.00	8.01	7.93	7.84	7.96	7.99	7.92	7.83	7.83	52
Prince Edward Island	7.74	7.67	7.70	7.63	7.59	7.71	7.75	7.68	7.56	7.58	60
Quebec	7.86	7.81	7.82	7.77	7.68	7.79	7.81	7.79	7.70	7.71	56
Saskatchewan	7.81	7.78	7.87	7.86	7.82	7.98	8.04	7.96	7.80	7.78	54

\* Rank out of 92, 2019

Table 3.3b: Mexico—Economic Freedom at the All-Government Level, 2003–2019

	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.54</b>	<b>6.62</b>	<b>6.50</b>	<b>6.19</b>	<b>6.10</b>	<b>6.14</b>	<b>6.32</b>	<b>6.32</b>	<b>6.39</b>	<b>6.39</b>	
Aguascalientes	6.59	6.65	6.56	6.33	5.95	6.17	6.21	6.28	6.37	6.40	77
Baja California	6.82	6.86	6.73	6.52	6.51	6.53	6.68	6.57	6.58	6.65	61
Baja California Sur	6.57	6.65	6.34	6.04	6.08	6.11	6.27	6.41	6.52	6.39	78
Campeche	5.91	5.95	6.20	5.97	5.94	5.74	5.94	6.14	6.23	6.21	89
Coahuila de Zaragoza	6.61	6.64	6.50	6.30	5.84	6.18	6.36	6.20	6.27	6.24	88
Colima	5.82	6.01	6.04	5.73	5.67	5.72	5.86	5.87	5.94	5.93	91
Chiapas	6.43	6.55	6.49	6.14	6.14	6.19	6.34	6.33	6.42	6.49	70
Chihuahua	6.52	6.62	6.64	6.41	6.07	6.04	6.30	6.45	6.52	6.60	64
Ciudad de México	5.91	5.92	5.75	5.44	5.47	5.45	5.52	5.65	5.76	5.63	92
Durango	6.56	6.61	6.38	6.06	5.99	6.02	6.21	6.18	6.28	6.33	83
Guanajuato	6.77	6.83	6.73	6.07	5.96	6.31	6.65	6.58	6.49	6.49	70
Guerrero	6.42	6.54	6.41	5.96	5.83	6.23	6.22	6.31	6.35	6.39	78
Hidalgo	6.43	6.51	6.34	6.10	6.03	6.16	6.31	6.37	6.48	6.47	74
Jalisco	6.79	6.86	6.71	6.50	6.47	6.48	6.63	6.57	6.69	6.60	64
México	6.93	6.99	6.84	6.60	6.62	6.53	6.47	6.53	6.61	6.48	73
Michoacán de Ocampo	6.72	6.84	6.70	6.30	6.09	5.93	6.05	6.22	6.42	6.44	75
Morelos	6.73	6.77	6.65	6.38	6.26	6.20	6.36	6.40	6.51	6.51	69
Nayarit	6.69	6.90	6.65	6.21	6.11	6.32	6.47	6.52	6.57	6.62	62
Nuevo León	6.57	6.64	6.49	6.31	6.25	5.86	6.62	6.51	6.34	6.39	78
Oaxaca	6.57	6.63	6.52	6.23	6.17	6.20	6.31	6.39	6.44	6.54	66
Puebla	6.62	6.88	6.67	6.32	6.27	6.26	6.38	6.37	6.49	6.53	67
Querétaro	6.41	6.56	6.55	6.24	6.29	6.23	6.22	6.20	6.27	6.26	87
Quintana Roo	6.68	6.68	6.49	6.33	6.24	6.20	6.47	6.37	6.53	6.32	84
San Luis Potosí	6.55	6.73	6.65	6.25	6.15	6.20	6.32	6.23	6.36	6.32	84
Sinaloa	6.74	6.76	6.65	6.27	6.19	6.28	6.43	6.41	6.45	6.49	70
Sonora	6.74	6.77	6.71	6.28	6.12	6.26	6.54	6.52	6.49	6.53	67
Tabasco	6.21	6.40	6.30	6.06	6.07	6.10	6.28	6.32	6.37	6.36	81
Tamaulipas	6.28	6.34	6.16	5.92	5.92	6.09	6.28	6.23	6.18	6.16	90
Tlaxcala	7.02	6.92	6.58	6.36	6.28	6.36	6.50	6.57	6.65	6.61	63
Veracruz de Ignacio ...	6.43	6.54	6.45	6.18	6.06	6.09	6.26	6.18	6.29	6.28	86
Yucatán	6.58	6.64	6.54	6.16	6.07	6.09	6.36	6.29	6.35	6.41	76
Zacatecas	6.61	6.63	6.57	6.13	5.96	6.07	6.28	6.16	6.28	6.35	82

\* Rank out of 92, 2019

Table 3.3c: United States—Economic Freedom at the All-Government Level, 2003–2019

	2003	2005	2007	2009	2011	2013	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>8.35</b>	<b>8.27</b>	<b>8.30</b>	<b>7.81</b>	<b>7.87</b>	<b>7.85</b>	<b>8.04</b>	<b>8.12</b>	<b>8.06</b>	<b>8.04</b>	
Alabama	8.43	8.36	8.37	7.90	7.94	7.91	8.10	8.04	7.99	8.09	17
Alaska	8.14	8.10	8.17	7.65	7.76	7.76	7.96	8.08	8.00	8.03	27
Arizona	8.42	8.35	8.35	7.86	7.89	7.91	8.11	8.18	8.13	8.08	20
Arkansas	8.29	8.20	8.22	7.76	7.73	7.77	7.97	8.05	8.00	7.98	38
California	8.31	8.21	8.22	7.74	7.79	7.76	7.97	8.06	7.99	7.95	43
Colorado	8.39	8.31	8.34	7.84	7.87	7.91	8.12	8.17	8.12	8.09	17
Connecticut	8.36	8.26	8.33	7.88	7.86	7.77	7.97	8.09	8.05	8.02	30
Delaware	8.39	8.25	8.18	7.72	7.68	7.61	7.87	7.96	7.86	7.79	53
Florida	8.49	8.37	8.39	7.93	8.00	7.97	8.18	8.28	8.20	8.17	2
Georgia	8.41	8.34	8.34	7.89	7.92	7.89	8.12	8.21	8.15	8.12	9
Hawaii	8.31	8.22	8.23	7.69	7.79	7.75	7.94	8.05	7.92	7.88	49
Idaho	8.35	8.29	8.34	7.85	7.91	7.94	8.14	8.23	8.19	8.16	3
Illinois	8.34	8.24	8.29	7.77	7.80	7.78	7.98	8.05	8.01	7.99	35
Indiana	8.45	8.31	8.37	7.85	7.94	7.90	8.11	8.20	8.16	8.12	9
Iowa	8.38	8.32	8.37	7.85	7.92	7.88	8.07	8.14	8.09	8.07	22
Kansas	8.35	8.25	8.32	7.83	7.94	7.96	8.11	8.18	8.10	8.08	20
Kentucky	8.37	8.29	8.31	7.78	7.80	7.76	7.93	7.99	7.95	7.93	46
Louisiana	8.36	8.23	8.24	7.76	7.84	7.84	7.98	8.08	8.04	8.02	30
Maine	8.32	8.22	8.27	7.81	7.84	7.86	8.06	8.14	8.09	8.03	27
Maryland	8.41	8.31	8.33	7.88	7.91	7.84	8.01	8.10	8.04	7.99	35
Massachusetts	8.34	8.26	8.31	7.80	7.83	7.81	8.01	8.09	8.01	7.98	38
Michigan	8.31	8.24	8.23	7.75	7.84	7.86	8.07	8.14	8.09	8.06	23
Minnesota	8.22	8.15	8.16	7.69	7.77	7.76	7.89	7.99	7.93	7.90	48
Mississippi	8.33	8.26	8.24	7.81	7.87	7.85	7.99	8.05	7.98	7.95	43
Missouri	8.35	8.30	8.30	7.84	7.88	7.86	8.01	8.07	8.04	8.02	30
Montana	8.29	8.29	8.32	7.83	7.91	7.90	8.09	8.21	8.15	8.14	7
Nebraska	8.40	8.30	8.35	7.90	8.00	7.92	8.10	8.15	8.09	8.06	23
Nevada	8.50	8.41	8.41	7.92	7.95	7.92	8.14	8.20	8.14	8.11	12
New Hampshire	8.57	8.49	8.51	8.03	8.09	8.06	8.23	8.30	8.25	8.23	1
New Jersey	8.29	8.18	8.21	7.74	7.78	7.74	7.96	8.06	8.00	7.98	38
New Mexico	8.28	8.23	8.24	7.76	7.79	7.79	7.98	8.05	8.03	7.97	41
New York	8.16	8.04	8.11	7.63	7.67	7.63	7.81	7.94	7.87	7.85	51
North Carolina	8.40	8.34	8.38	7.90	7.90	7.89	8.08	8.16	8.12	8.09	17
North Dakota	8.31	8.23	8.32	7.82	7.93	7.90	8.03	8.15	8.13	8.11	12
Ohio	8.20	8.11	8.14	7.66	7.71	7.71	7.94	8.01	7.98	7.95	43
Oklahoma	8.27	8.26	8.35	7.87	7.97	7.96	8.11	8.20	8.13	8.10	14
Oregon	8.30	8.25	8.30	7.76	7.78	7.80	8.00	8.10	8.04	8.00	33
Pennsylvania	8.36	8.27	8.28	7.81	7.84	7.83	8.03	8.09	8.05	8.03	27
Rhode Island	8.23	8.12	8.16	7.66	7.74	7.68	7.89	7.95	7.90	7.87	50
South Carolina	8.38	8.30	8.33	7.86	7.91	7.93	8.14	8.22	8.15	8.15	4
South Dakota	8.44	8.38	8.43	7.95	8.07	7.99	8.14	8.15	8.11	8.10	14
Tennessee	8.43	8.33	8.37	7.90	7.95	7.92	8.12	8.20	8.16	8.13	8
Texas	8.38	8.33	8.35	7.87	7.97	7.94	8.12	8.20	8.15	8.12	9
Utah	8.41	8.32	8.39	7.88	7.92	7.92	8.16	8.22	8.17	8.15	4
Vermont	8.36	8.25	8.25	7.79	7.86	7.81	7.98	8.05	7.99	7.96	42
Virginia	8.45	8.35	8.38	7.87	7.98	7.91	8.10	8.18	8.13	8.10	14
Washington	8.33	8.28	8.33	7.85	7.87	7.88	8.08	8.15	8.09	8.05	25
West Virginia	8.27	8.25	8.32	7.87	7.84	7.83	8.01	7.93	7.90	7.99	35
Wisconsin	8.33	8.25	8.29	7.73	7.82	7.79	8.06	8.14	8.10	8.05	25
Wyoming	8.32	8.27	8.28	7.76	7.91	7.88	8.07	8.19	8.17	8.15	4

\* Rank out of 92, 2019

Table 3.4a: Canada—Overall Scores at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>4.91</b>	<b>4.62</b>	<b>4.84</b>	<b>4.98</b>	<b>5.42</b>	<b>5.48</b>	<b>4.92</b>	<b>5.14</b>	<b>4.87</b>	<b>4.71</b>	<b>4.62</b>	
Alberta	5.49	4.72	5.86	7.28	7.41	8.53	7.25	8.19	7.05	6.69	6.17	1
British Columbia	5.45	5.78	6.12	5.00	4.87	6.19	6.39	6.15	6.18	5.68	5.44	2
Manitoba	5.69	4.99	4.70	5.00	4.97	4.89	4.82	4.88	4.95	4.91	4.82	4
New Brunswick	5.03	4.69	5.22	5.94	5.99	5.79	5.69	4.40	4.16	4.06	4.09	9
Newfoundland & Lab.	3.47	2.87	2.88	3.46	4.68	4.51	4.55	5.37	4.43	4.52	4.47	6
Nova Scotia	5.03	5.13	6.12	6.38	6.93	6.18	4.16	4.04	3.90	4.20	4.20	7
Ontario	6.39	6.10	5.21	4.50	5.92	5.80	4.51	5.84	5.53	5.10	5.31	3
Prince Edward Island	5.35	5.90	5.47	6.35	6.18	6.27	5.04	4.63	4.56	4.29	4.20	7
Quebec	3.44	2.70	3.52	2.46	3.39	2.88	2.61	2.84	2.88	2.84	2.83	10
Saskatchewan	3.79	3.32	3.32	3.43	3.87	3.80	4.17	5.11	5.02	4.79	4.68	5

\* Rank out of 10, 2019

Table 3.4b: Mexico—Overall Scores at the Subnational Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average for Mexico</b>	<b>7.01</b>	<b>6.78</b>	<b>5.78</b>	<b>4.85</b>	<b>4.48</b>	<b>4.62</b>	<b>4.31</b>	
Aguascalientes	7.38	7.21	5.80	4.45	4.67	4.80	4.49	14
Baja California	8.32	7.93	7.41	7.00	6.10	6.04	6.01	1
Baja California Sur	5.86	5.11	4.14	4.04	4.61	4.91	4.45	17
Campeche	4.52	4.38	3.95	2.21	2.61	2.78	2.53	32
Coahuila de Zaragoza	7.02	6.75	5.78	5.02	4.40	4.90	4.29	20
Colima	6.86	6.46	5.31	4.05	4.02	4.16	3.77	26
Chiapas	6.48	6.66	4.85	4.27	3.80	3.93	4.32	19
Chihuahua	6.57	6.48	5.86	4.50	5.07	5.01	5.01	4
Ciudad de México	5.84	5.73	5.57	4.79	5.14	5.33	4.81	7
Durango	6.86	6.83	5.34	4.09	3.69	3.88	3.95	23
Guanajuato	8.78	8.09	6.88	6.69	6.03	5.26	4.70	9
Guerrero	5.75	5.59	5.19	3.89	3.48	3.96	3.61	27
Hidalgo	7.25	6.84	5.41	5.44	4.68	4.79	4.52	13
Jalisco	7.97	7.63	7.25	6.35	6.12	6.57	5.74	3
México	8.08	7.72	6.47	4.68	4.06	4.29	3.16	29
Michoacán de Ocampo	8.15	8.35	6.80	6.26	6.04	6.39	5.87	2
Morelos	8.31	7.88	6.86	5.27	4.51	4.94	4.75	8
Nayarit	6.64	6.85	5.17	4.79	4.75	4.69	4.56	12
Nuevo León	6.54	6.57	6.46	5.64	5.53	5.04	5.01	4
Oaxaca	7.49	7.19	6.45	4.42	4.20	4.27	4.49	14
Puebla	8.37	8.76	7.55	5.07	4.26	4.75	4.89	6
Querétaro	6.82	6.17	5.28	4.47	4.18	4.36	3.94	24
Quintana Roo	5.60	5.30	5.20	4.03	3.47	4.15	3.25	28
San Luis Potosí	7.28	7.07	6.13	4.45	4.01	4.40	3.82	25
Sinaloa	7.82	7.46	6.17	5.12	4.53	4.94	4.40	18
Sonora	7.28	7.02	5.48	5.37	5.29	4.69	4.60	11
Tabasco	4.87	4.57	3.67	3.18	2.99	3.44	2.93	30
Tamaulipas	5.89	6.01	5.45	5.28	5.04	4.67	4.49	14
Tlaxcala	7.84	7.35	6.00	5.33	5.01	4.93	4.64	10
Veracruz de Ignacio ...	7.52	7.47	6.41	5.40	4.01	4.34	4.00	22
Yucatán	7.72	7.43	6.24	4.86	4.29	4.60	4.07	21
Zacatecas	6.69	6.06	4.41	4.89	2.87	2.77	2.89	31

\* Rank out of 32, 2019

Table 3.4c: United States—Overall Scores at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>5.06</b>	<b>5.32</b>	<b>5.62</b>	<b>5.45</b>	<b>6.18</b>	<b>6.16</b>	<b>5.46</b>	<b>6.25</b>	<b>6.22</b>	<b>6.29</b>	<b>6.27</b>	
Alabama	5.48	5.85	6.28	6.15	5.79	6.82	5.77	6.34	5.81	5.79	6.39	28
Alaska	2.97	3.61	3.73	3.12	3.65	3.65	4.33	5.00	5.13	5.04	5.38	39
Arizona	6.09	6.21	5.87	5.90	6.67	7.07	5.91	6.84	6.58	6.60	6.40	25
Arkansas	5.89	6.04	6.13	6.12	6.40	6.46	5.38	6.10	6.09	6.26	6.12	31
California	4.14	4.61	4.59	4.40	5.30	4.81	4.21	4.91	4.97	4.82	4.68	49
Colorado	5.94	6.08	6.25	6.42	7.65	7.25	5.93	7.02	6.70	6.65	6.53	21
Connecticut	5.64	6.35	6.22	5.33	6.53	6.49	6.36	6.45	6.40	6.45	6.53	21
Delaware	4.27	5.46	6.25	5.77	6.68	6.51	5.36	5.52	5.58	5.59	5.19	42
Florida	6.75	7.05	7.05	6.95	7.66	7.14	6.66	7.72	7.97	7.88	7.78	3
Georgia	5.75	6.18	6.42	6.44	7.06	7.07	5.97	7.14	7.31	7.33	7.42	6
Hawaii	4.42	4.36	5.67	4.01	5.02	5.46	5.03	5.44	5.38	5.06	5.08	44
Idaho	5.42	5.58	5.97	5.52	6.17	6.31	5.41	6.85	6.97	7.13	7.13	8
Illinois	4.51	5.17	5.83	5.61	6.51	6.00	5.31	5.95	5.84	6.06	5.97	32
Indiana	5.76	5.84	6.31	6.38	6.92	6.34	5.60	6.84	6.97	7.11	7.07	11
Iowa	5.01	4.72	5.15	5.14	6.08	6.30	5.18	6.07	6.12	6.26	6.33	30
Kansas	5.03	5.63	5.96	5.80	6.70	6.49	6.00	7.05	6.91	6.93	6.99	12
Kentucky	4.93	5.60	5.78	5.40	6.05	5.81	4.69	5.39	5.21	5.36	5.60	37
Louisiana	5.57	5.07	5.36	5.78	5.77	5.94	5.63	6.30	6.40	6.51	6.49	23
Maine	4.21	4.21	4.57	4.31	5.02	4.90	4.97	5.65	5.62	5.57	5.16	43
Maryland	5.06	5.91	6.50	6.35	7.06	7.40	6.36	6.37	6.60	6.49	6.40	25
Massachusetts	4.25	5.51	5.51	5.62	6.91	6.59	5.98	6.81	6.67	6.69	6.56	19
Michigan	3.30	4.38	4.26	5.02	6.08	5.56	4.53	5.99	5.90	5.95	5.93	34
Minnesota	3.91	4.31	4.56	4.26	5.47	5.69	4.75	5.52	5.50	5.41	5.51	38
Mississippi	5.37	5.46	5.62	5.76	5.59	5.77	5.03	5.27	5.24	5.35	5.29	40
Missouri	6.00	6.38	6.77	6.44	6.81	6.57	6.19	6.71	6.71	6.83	6.65	17
Montana	4.77	3.99	3.93	4.19	5.25	6.12	5.45	6.11	6.33	6.37	6.49	23
Nebraska	5.39	5.56	6.25	6.35	6.89	6.82	6.35	6.99	6.65	6.75	6.72	16
Nevada	5.82	6.09	6.43	6.39	7.36	7.54	5.48	6.59	6.66	6.65	6.59	18
New Hampshire	6.36	7.17	7.27	7.01	7.93	7.89	7.08	7.81	7.78	7.84	7.83	1
New Jersey	4.54	5.66	6.12	4.96	6.51	5.82	4.99	5.80	5.96	6.02	5.65	36
New Mexico	5.22	5.39	5.28	4.63	4.87	5.60	4.74	5.16	5.13	5.42	5.01	46
New York	2.75	3.14	3.80	3.23	4.58	3.71	3.65	4.07	4.43	4.32	4.33	50
North Carolina	5.82	6.20	6.46	6.24	6.57	6.86	5.74	6.77	6.87	7.05	7.11	10
North Dakota	5.79	5.14	4.92	5.52	6.19	6.53	6.37	6.65	6.80	7.13	7.12	9
Ohio	4.37	4.28	4.65	4.26	5.27	4.87	4.53	5.60	5.54	5.70	5.72	35
Oklahoma	5.93	5.95	5.70	5.59	6.57	6.97	6.37	7.09	6.93	7.02	6.99	12
Oregon	3.73	4.04	4.56	4.85	4.87	5.00	4.32	5.23	5.28	5.18	5.05	45
Pennsylvania	4.63	4.96	5.65	5.26	6.43	6.21	5.40	6.39	6.25	6.47	6.56	19
Rhode Island	3.91	4.53	4.85	3.82	4.84	4.61	4.89	5.49	5.32	5.26	5.25	41
South Carolina	5.89	6.11	6.17	5.93	6.32	5.56	4.58	6.00	6.11	6.16	6.39	28
South Dakota	5.40	6.20	6.71	6.75	7.47	7.73	7.44	7.60	7.18	7.36	7.41	7
Tennessee	6.15	6.49	6.88	7.03	7.48	7.01	6.68	7.49	7.62	7.78	7.82	2
Texas	6.94	6.91	6.75	6.55	7.25	7.32	6.68	7.65	7.56	7.72	7.75	4
Utah	5.26	5.47	5.47	5.96	5.81	6.22	5.15	6.56	6.48	6.79	6.73	15
Vermont	4.04	4.35	4.98	4.81	5.50	5.14	4.50	5.07	4.90	4.87	4.86	48
Virginia	6.04	6.66	7.06	6.92	7.40	7.54	7.00	7.31	7.59	7.66	7.59	5
Washington	4.97	4.78	4.88	4.39	5.33	5.60	4.69	6.16	6.12	6.06	5.97	32
West Virginia	3.66	3.24	3.98	3.90	4.71	5.10	4.71	5.04	4.24	4.55	5.00	47
Wisconsin	4.66	3.81	4.65	4.82	5.51	5.62	4.76	6.35	6.42	6.59	6.40	25
Wyoming	5.42	4.30	4.85	5.24	6.51	6.18	5.16	6.30	6.37	6.82	6.77	14

\* Rank out of 50, 2019

Table 3.5a: Canada—Scores for Area 1 (Government Spending) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.55</b>	<b>7.75</b>	<b>7.55</b>	<b>8.07</b>	<b>7.87</b>	<b>7.32</b>	<b>7.86</b>	<b>7.65</b>	<b>7.54</b>	<b>7.60</b>	
Alberta	8.30	8.76	8.67	9.21	9.28	8.64	9.21	8.76	8.69	8.69	1
British Columbia	8.37	8.67	8.43	8.75	8.71	8.06	8.53	8.46	8.34	8.42	2
Manitoba	8.19	8.14	7.83	8.20	7.93	7.61	8.00	7.87	7.73	7.77	17
New Brunswick	6.86	7.10	6.98	7.59	7.27	6.72	7.03	6.80	6.75	6.80	54
Newfoundland & Labrador	5.84	6.02	6.21	6.84	6.58	6.35	7.30	6.83	6.68	6.78	56
Nova Scotia	7.23	7.52	7.11	7.74	7.51	6.72	7.02	6.88	6.80	6.84	52
Ontario	8.93	8.84	8.45	9.07	8.79	7.91	8.47	8.35	8.26	8.33	3
Prince Edward Island	6.27	6.63	6.43	6.96	6.78	6.07	6.71	6.55	6.41	6.56	61
Quebec	7.87	8.08	7.75	8.39	8.13	7.52	7.94	7.90	7.85	7.94	6
Saskatchewan	7.67	7.78	7.63	7.97	7.75	7.64	8.36	8.06	7.87	7.86	10

\* Rank out of 92, 2019

Table 3.5b: Mexico—Scores for Area 1 (Government Spending) at the All-Government Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.16</b>	<b>6.14</b>	<b>4.46</b>	<b>4.84</b>	<b>5.18</b>	<b>5.28</b>	<b>5.23</b>	
Aguascalientes	6.31	6.05	4.27	4.07	4.72	4.90	5.10	79
Baja California	7.72	7.46	6.22	6.71	6.58	6.42	6.71	57
Baja California Sur	6.11	6.26	3.55	4.37	5.42	5.68	5.01	81
Campeche	2.25	2.02	3.23	2.91	4.01	4.15	4.06	91
Coahuila de Zaragoza	6.55	6.31	3.88	5.14	4.70	4.77	4.59	87
Colima	3.83	4.44	3.48	3.90	4.20	4.28	4.17	90
Chiapas	5.15	5.32	3.97	4.61	4.74	4.85	5.14	77
Chihuahua	6.14	6.20	4.49	4.66	5.82	5.87	6.21	63
Ciudad de México	5.21	5.08	4.00	2.83	3.39	3.96	3.25	92
Durango	5.90	5.58	3.34	3.88	4.13	4.28	4.48	89
Guanajuato	7.20	7.11	5.38	6.27	6.33	5.60	5.63	71
Guerrero	5.26	5.37	4.45	4.22	4.65	4.76	4.71	83
Hidalgo	5.17	5.14	3.67	4.30	4.93	5.13	5.13	78
Jalisco	7.46	7.41	6.15	6.47	6.66	7.05	6.62	60
México	8.19	8.09	6.54	5.54	6.25	6.31	5.80	69
Michoacán de Ocampo	6.85	7.23	4.67	4.38	5.36	6.10	6.16	64
Morelos	6.92	6.75	5.14	4.68	5.19	5.53	5.47	73
Nayarit	6.67	7.23	3.90	5.19	5.85	5.75	6.02	66
Nuevo León	6.98	7.02	5.93	6.98	6.99	6.10	6.11	65
Oaxaca	5.92	5.75	4.25	4.33	4.93	4.99	5.30	74
Puebla	6.46	7.28	5.48	5.15	5.46	5.71	5.84	68
Querétaro	5.74	6.13	4.93	4.81	5.18	5.22	5.20	76
Quintana Roo	7.05	6.68	5.59	5.83	5.60	6.28	5.27	75
San Luis Potosí	5.92	6.39	4.42	4.62	4.67	4.83	4.68	84
Sinaloa	7.00	6.70	4.65	5.18	5.43	5.55	5.53	72
Sonora	7.04	6.77	4.04	5.70	5.91	5.48	5.71	70
Tabasco	4.00	4.49	3.64	4.44	4.77	4.86	4.81	82
Tamaulipas	5.73	5.40	3.46	5.03	5.06	4.87	4.63	86
Tlaxcala	8.37	7.35	4.63	5.33	5.98	6.15	5.88	67
Veracruz de Ignacio ...	5.68	5.69	3.95	4.37	4.31	4.66	4.49	88
Yucatán	6.10	5.88	3.95	4.68	4.63	4.65	5.06	80
Zacatecas	6.09	5.93	3.37	4.18	3.98	4.31	4.66	85

\* Rank out of 92, 2019

Table 3.5c: United States—Scores for Area 1 (Government Spending) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.71</b>	<b>7.68</b>	<b>7.71</b>	<b>8.17</b>	<b>7.86</b>	<b>6.64</b>	<b>7.35</b>	<b>7.37</b>	<b>7.50</b>	<b>7.49</b>	
Alabama	7.72	7.65	7.74	8.00	7.76	6.56	7.10	6.28	6.46	7.13	51
Alaska	6.77	6.47	6.38	6.61	6.28	5.50	6.12	6.46	6.39	6.66	58
Arizona	7.98	7.71	7.93	8.36	8.04	6.67	7.39	7.42	7.57	7.51	34
Arkansas	7.80	7.82	7.86	8.19	7.92	6.62	7.17	7.32	7.46	7.39	43
California	7.60	7.64	7.56	8.25	7.86	6.70	7.30	7.40	7.45	7.41	41
Colorado	7.89	7.66	7.92	8.55	8.12	6.73	7.57	7.54	7.67	7.66	23
Connecticut	7.90	7.89	7.91	8.52	8.21	6.90	7.37	7.63	7.75	7.71	20
Delaware	8.02	8.02	7.94	8.54	8.23	6.92	7.19	7.28	7.41	7.32	47
Florida	8.17	8.09	8.13	8.62	8.19	7.04	7.87	8.03	8.07	7.98	5
Georgia	7.93	7.96	8.00	8.51	8.18	6.78	7.64	7.76	7.83	7.78	15
Hawaii	7.16	7.74	7.47	7.89	7.74	6.31	6.96	7.16	7.23	7.18	49
Idaho	7.70	7.69	7.77	8.22	7.98	6.67	7.65	7.72	7.84	7.77	17
Illinois	7.97	7.98	7.97	8.44	8.04	6.69	7.42	7.41	7.53	7.55	30
Indiana	8.05	8.11	8.19	8.59	8.15	6.93	7.68	7.72	7.85	7.81	12
Iowa	7.88	7.82	7.89	8.34	8.03	6.85	7.49	7.54	7.66	7.62	24
Kansas	7.84	7.84	7.93	8.42	8.04	6.92	7.74	7.70	7.83	7.78	15
Kentucky	7.84	7.72	7.68	8.08	7.64	6.03	6.70	6.64	6.76	6.79	55
Louisiana	7.46	7.50	7.43	7.87	7.43	6.35	6.97	7.18	7.28	7.20	48
Maine	7.56	7.64	7.51	8.03	7.75	6.65	7.51	7.61	7.76	7.69	21
Maryland	7.68	7.68	7.69	8.24	7.97	6.72	7.19	7.37	7.51	7.46	38
Massachusetts	7.73	7.55	7.72	8.40	8.01	6.65	7.48	7.51	7.64	7.58	27
Michigan	7.89	7.59	7.84	8.38	7.95	6.41	7.48	7.54	7.63	7.56	28
Minnesota	7.78	7.74	7.83	8.28	8.07	6.86	7.68	7.76	7.81	7.79	13
Mississippi	7.47	7.42	7.52	7.74	7.32	6.27	6.56	6.49	6.62	6.56	61
Missouri	7.65	7.78	7.87	8.29	7.91	6.62	7.28	7.33	7.46	7.46	38
Montana	7.05	7.01	7.14	7.65	7.59	6.46	7.19	7.42	7.58	7.55	30
Nebraska	8.00	7.97	8.15	8.45	8.21	7.26	7.86	7.85	7.94	7.89	7
Nevada	7.68	7.74	7.96	8.63	8.51	6.92	7.71	7.76	7.83	7.75	19
New Hampshire	8.23	8.14	8.26	8.73	8.55	7.46	8.10	8.14	8.24	8.18	4
New Jersey	8.02	7.92	7.85	8.51	8.12	6.83	7.63	7.77	7.87	7.88	8
New Mexico	7.18	7.06	7.13	7.41	7.10	5.81	6.45	6.45	6.67	6.66	58
New York	7.56	7.57	7.39	7.97	7.56	6.41	7.10	7.29	7.37	7.35	45
North Carolina	8.08	8.03	8.06	8.36	8.10	6.74	7.34	7.42	7.58	7.55	30
North Dakota	7.09	7.08	7.31	7.36	7.28	6.75	7.26	7.35	7.59	7.56	28
Ohio	7.67	7.56	7.59	8.04	7.61	6.26	7.28	7.29	7.44	7.40	42
Oklahoma	7.93	7.71	7.62	8.14	7.96	6.88	7.57	7.51	7.66	7.62	24
Oregon	7.60	7.74	7.71	7.95	7.66	6.26	7.18	7.29	7.39	7.35	45
Pennsylvania	7.81	7.84	7.69	8.24	7.88	6.52	7.33	7.22	7.43	7.42	40
Rhode Island	7.70	7.53	7.27	7.92	7.62	6.27	7.04	7.06	7.18	7.17	50
South Carolina	7.79	7.68	7.74	8.20	7.71	6.50	7.39	7.46	7.54	7.59	26
South Dakota	7.66	7.72	7.81	8.10	7.82	7.02	7.61	7.37	7.54	7.52	33
Tennessee	7.90	7.88	7.97	8.38	8.00	6.89	7.55	7.66	7.75	7.68	22
Texas	8.08	7.92	7.94	8.42	8.14	7.05	7.75	7.73	7.88	7.84	11
Utah	7.65	7.56	7.88	8.33	8.03	6.80	7.62	7.65	7.80	7.79	13
Vermont	7.83	7.85	7.84	8.31	8.00	6.59	7.33	7.30	7.39	7.37	44
Virginia	7.79	7.73	7.77	8.28	7.98	6.79	7.35	7.43	7.54	7.48	37
Washington	7.44	7.58	7.51	8.21	8.01	6.66	7.61	7.79	7.89	7.88	8
West Virginia	7.43	7.36	7.18	7.57	7.52	6.39	6.86	5.88	6.07	6.81	53
Wisconsin	7.86	7.85	7.92	8.30	7.97	6.59	7.47	7.54	7.68	7.49	36
Wyoming	7.30	7.22	7.34	7.88	7.47	6.40	7.20	7.24	7.54	7.50	35

\* Rank out of 92, 2019

Table 3.6a: Canada—Scores for Area 1 (Government Spending) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.30</b>	<b>5.17</b>	<b>5.25</b>	<b>5.73</b>	<b>6.17</b>	<b>5.93</b>	<b>4.21</b>	<b>4.82</b>	<b>4.66</b>	<b>4.53</b>	<b>4.40</b>	
Alberta	5.43	2.41	5.43	8.44	8.15	9.39	6.69	8.60	7.07	6.68	6.04	3
British Columbia	6.95	6.69	7.00	5.86	5.17	6.90	6.75	6.52	6.91	6.05	5.69	4
Manitoba	9.29	7.70	6.24	6.73	6.42	5.79	5.77	5.69	6.04	6.10	6.14	2
New Brunswick	6.71	5.91	5.83	7.38	6.60	5.48	4.83	2.36	2.08	2.09	2.15	10
Newfoundland & Lab.	3.72	2.19	1.56	2.83	5.32	4.56	3.78	5.12	4.57	4.63	4.20	5
Nova Scotia	6.38	6.89	7.53	7.50	8.68	6.58	2.35	2.46	2.38	2.97	3.30	8
Ontario	8.11	7.13	6.11	4.89	6.90	6.63	2.83	6.56	6.57	6.07	6.39	1
Prince Edward Island	6.95	7.49	5.32	6.80	5.93	7.25	4.04	4.44	4.43	4.09	3.60	7
Quebec	5.14	3.05	4.65	2.98	4.19	2.79	1.77	2.30	2.45	2.53	2.60	9
Saskatchewan	4.32	2.24	2.84	3.85	4.33	3.93	3.33	4.15	4.07	4.14	3.90	6

\* Rank out of 10, 2019

Table 3.6b: Mexico—Scores for Area 1 (Government Spending) at the Subnational Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.91</b>	<b>6.86</b>	<b>4.34</b>	<b>3.67</b>	<b>4.08</b>	<b>4.32</b>	<b>4.38</b>	
Aguascalientes	7.52	7.23	5.05	3.42	4.00	4.37	5.16	14
Baja California	9.20	9.13	7.90	7.86	7.30	7.42	7.71	1
Baja California Sur	7.43	7.29	4.44	3.79	5.28	5.99	5.37	11
Campeche	2.88	3.14	2.25	0.05	1.46	1.24	1.64	30
Coahuila de Zaragoza	8.82	8.27	4.19	6.95	6.12	6.72	6.60	4
Colima	5.36	6.03	4.76	2.39	3.51	3.51	3.66	21
Chiapas	3.08	3.73	0.81	0.00	0.00	0.83	1.38	32
Chihuahua	7.51	7.57	5.29	3.83	6.15	5.75	5.75	7
Ciudad de México	9.50	9.45	7.91	5.52	6.58	6.86	6.39	5
Durango	6.36	6.35	2.80	1.44	2.30	3.12	4.00	19
Guanajuato	8.26	8.43	6.15	5.85	6.03	5.18	5.44	9
Guerrero	3.19	3.67	2.67	1.60	1.66	2.18	1.85	28
Hidalgo	5.58	4.92	3.34	2.66	3.25	3.48	3.49	23
Jalisco	9.04	8.60	7.25	6.89	7.08	7.61	7.22	2
México	8.97	8.26	5.61	4.15	4.16	4.39	3.18	25
Michoacán de Ocampo	7.39	8.01	4.79	3.63	4.78	5.51	5.75	7
Morelos	7.35	6.97	5.17	3.60	3.30	3.85	4.08	18
Nayarit	6.41	7.31	3.28	2.88	4.02	3.40	3.77	20
Nuevo León	8.93	8.66	7.33	7.77	7.31	6.57	6.93	3
Oaxaca	4.77	4.40	1.93	0.02	1.30	1.23	1.78	29
Puebla	7.02	8.17	5.95	3.46	4.41	5.09	5.29	12
Querétaro	7.03	7.39	5.79	4.90	5.03	5.22	5.17	13
Quintana Roo	7.65	7.08	4.88	4.27	3.34	5.38	4.18	17
San Luis Potosí	6.05	6.60	4.38	3.22	3.25	3.78	3.60	22
Sinaloa	8.03	7.85	4.41	4.16	4.39	4.40	4.48	16
Sonora	8.44	8.14	4.17	4.55	4.88	3.43	4.54	15
Tabasco	1.83	2.01	0.34	1.24	1.77	2.71	1.64	30
Tamaulipas	7.65	7.52	5.00	6.14	6.39	5.42	5.82	6
Tlaxcala	8.60	7.49	2.28	2.08	3.20	3.47	3.30	24
Veracruz de Ignacio ...	7.42	7.50	3.62	3.50	2.84	3.64	2.96	26
Yucatán	8.01	7.50	5.20	4.15	4.48	5.19	5.43	10
Zacatecas	5.73	4.70	0.00	1.45	1.09	1.18	2.48	27

\* Rank out of 32, 2019

Data for Mexico are not available for years 1981–2002.



Table 3.6c: United States—Scores for Area 1 (Government Spending) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.09</b>	<b>7.38</b>	<b>7.31</b>	<b>6.40</b>	<b>7.38</b>	<b>6.82</b>	<b>5.19</b>	<b>6.48</b>	<b>6.34</b>	<b>6.47</b>	<b>6.58</b>	
Alabama	7.64	8.41	8.45	7.41	5.45	7.65	5.57	6.09	4.05	4.16	5.79	36
Alaska	2.92	2.92	2.42	0.21	0.56	0.00	1.32	1.97	2.58	2.30	3.24	50
Arizona	9.39	9.38	8.09	7.35	7.92	8.16	6.12	7.53	7.40	7.63	7.59	14
Arkansas	8.34	8.91	8.63	7.95	8.08	7.63	5.39	6.23	6.48	6.65	6.58	27
California	5.40	5.43	5.20	4.05	5.95	4.67	3.43	4.38	4.56	4.43	4.45	46
Colorado	8.19	8.10	8.00	7.41	9.54	8.28	5.86	7.74	7.40	7.58	7.70	11
Connecticut	7.11	7.86	7.41	5.64	8.20	8.30	7.10	7.64	7.81	7.85	7.91	9
Delaware	6.63	8.31	8.31	7.13	8.52	7.48	5.02	4.35	4.40	4.60	4.34	47
Florida	9.55	9.79	9.06	8.69	9.68	7.81	6.83	8.66	9.02	8.78	8.61	2
Georgia	8.75	9.11	8.74	7.86	8.78	8.02	5.92	7.86	8.00	7.94	7.91	9
Hawaii	6.19	4.78	7.65	4.30	5.94	7.22	5.78	6.88	7.19	7.11	7.09	22
Idaho	8.30	8.62	9.04	7.15	8.19	7.55	5.66	8.02	8.00	8.14	8.05	8
Illinois	5.34	6.07	7.10	6.53	8.02	7.16	5.41	6.48	6.09	6.25	6.43	29
Indiana	8.11	8.79	8.89	8.58	9.36	7.73	5.86	7.47	7.27	7.48	7.49	16
Iowa	7.23	7.15	7.63	6.96	7.75	7.43	5.06	6.22	6.07	6.20	6.26	31
Kansas	7.78	8.91	8.37	7.77	9.02	8.15	6.94	8.49	8.21	8.36	8.37	5
Kentucky	6.19	8.09	7.90	6.78	7.58	5.63	3.12	4.37	3.76	3.85	4.09	49
Louisiana	7.32	6.63	6.96	6.41	6.18	5.73	4.43	5.30	5.68	5.78	5.63	37
Maine	5.83	5.88	6.08	4.80	5.98	5.64	4.96	6.82	6.97	7.21	7.12	20
Maryland	7.29	7.75	7.82	7.45	8.22	8.39	5.79	6.10	6.78	6.99	7.06	25
Massachusetts	5.40	6.71	5.82	5.93	8.60	7.77	5.84	7.70	7.59	7.75	7.69	12
Michigan	4.31	5.76	4.47	5.58	7.90	6.36	3.79	6.32	6.24	6.28	6.16	33
Minnesota	6.02	5.78	5.81	4.64	6.33	5.80	3.91	6.05	6.13	5.88	6.02	34
Mississippi	7.08	7.77	7.91	7.69	7.15	6.48	4.81	4.84	4.40	4.54	4.53	45
Missouri	8.07	8.98	9.03	8.34	8.46	7.11	6.37	7.38	7.27	7.37	7.49	16
Montana	7.21	5.80	5.31	4.73	6.52	6.58	5.11	6.50	6.71	6.98	7.09	22
Nebraska	8.91	8.81	9.09	9.04	9.39	8.81	7.95	8.72	8.39	8.40	8.38	4
Nevada	8.33	8.50	8.40	8.27	9.70	9.51	5.63	7.45	7.30	7.22	7.08	24
New Hampshire	8.76	9.44	9.44	8.57	9.54	9.42	7.90	9.02	8.81	8.81	8.74	1
New Jersey	6.10	7.56	8.15	6.34	8.49	7.24	4.66	6.39	6.69	6.69	7.12	20
New Mexico	7.68	7.79	7.33	4.86	5.06	5.49	3.25	4.07	3.77	4.14	4.30	48
New York	4.63	4.63	4.51	2.95	5.16	3.88	3.40	4.35	4.81	4.78	4.90	43
North Carolina	8.13	8.96	8.42	7.16	7.42	7.76	5.74	6.94	6.94	7.21	7.25	19
North Dakota	8.00	7.53	6.80	7.00	7.22	7.20	5.91	6.24	6.28	6.90	6.97	26
Ohio	4.83	5.25	4.95	4.07	5.59	4.16	3.14	4.98	4.71	5.00	4.97	42
Oklahoma	8.02	8.46	7.57	6.76	8.44	8.03	6.56	7.75	7.25	7.48	7.50	15
Oregon	5.58	6.51	7.41	5.82	5.42	5.03	3.85	4.91	5.04	5.07	5.09	41
Pennsylvania	5.18	5.59	6.34	5.46	7.45	6.34	4.51	6.31	5.51	6.02	6.22	32
Rhode Island	5.26	5.65	5.43	3.27	5.17	4.34	4.64	5.50	5.24	5.40	5.55	39
South Carolina	8.24	8.86	8.52	7.15	7.58	4.52	2.77	5.21	5.12	5.08	5.57	38
South Dakota	7.13	9.19	9.17	8.81	9.17	8.91	8.23	8.79	7.97	8.23	8.29	6
Tennessee	8.74	9.29	9.14	8.34	8.93	6.75	6.59	7.62	7.71	7.71	7.64	13
Texas	9.60	9.53	8.84	7.90	8.69	8.38	7.26	8.48	8.13	8.38	8.40	3
Utah	7.45	8.30	7.61	7.80	6.40	6.28	4.01	6.27	5.93	6.37	6.58	27
Vermont	5.68	6.16	5.94	5.31	6.46	6.24	3.89	5.60	5.06	5.03	5.17	40
Virginia	8.42	8.99	9.13	8.06	8.55	8.20	6.92	7.66	8.32	8.35	8.25	7
Washington	6.24	5.75	5.81	4.27	5.70	6.68	3.90	6.65	7.35	7.30	7.47	18
West Virginia	5.80	5.34	5.24	4.02	5.78	6.30	4.83	5.27	2.84	3.25	4.74	44
Wisconsin	7.51	5.51	6.25	6.21	6.82	6.39	4.53	6.70	6.68	6.87	6.29	30
Wyoming	8.52	5.87	5.78	5.22	7.19	6.22	3.98	5.59	5.04	5.76	5.88	35

\* Rank out of 50, 2019

Table 3.7a: Canada—Scores for Area 2 (Taxes) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>5.32</b>	<b>5.80</b>	<b>5.36</b>	<b>5.14</b>	<b>5.62</b>	<b>6.05</b>	<b>5.69</b>	<b>5.60</b>	<b>5.53</b>	<b>5.40</b>	
Alberta	5.88	6.22	5.88	5.73	6.43	6.61	6.34	6.08	5.96	5.76	60
British Columbia	5.46	6.07	5.32	5.17	6.04	6.30	5.86	5.92	5.69	5.55	68
Manitoba	4.95	5.60	5.26	4.94	5.52	5.83	5.51	5.54	5.47	5.36	79
New Brunswick	5.25	5.81	5.49	5.35	5.79	6.26	5.47	5.63	5.60	5.47	73
Newfoundland & Labrador	5.34	5.95	5.37	5.42	5.67	6.31	6.03	5.53	5.52	5.41	76
Nova Scotia	5.34	6.05	5.83	5.47	5.78	5.94	5.63	5.51	5.53	5.37	78
Ontario	5.18	5.14	5.03	4.98	5.33	5.82	5.34	5.23	5.25	5.19	83
Prince Edward Island	6.07	6.36	5.66	5.15	5.43	6.14	5.85	5.70	5.61	5.55	68
Quebec	4.48	5.12	4.85	4.55	5.07	5.42	5.05	5.10	5.08	5.00	85
Saskatchewan	5.25	5.66	4.89	4.67	5.15	5.83	5.84	5.80	5.54	5.34	80

\* Rank out of 92, 2019

Table 3.7b: Mexico—Scores for Area 2 (Taxes) at the All-Government Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.82</b>	<b>6.12</b>	<b>5.41</b>	<b>5.50</b>	<b>5.39</b>	<b>5.37</b>	<b>5.36</b>	
Aguascalientes	6.94	6.31	5.57	5.60	5.55	5.52	5.51	71
Baja California	6.75	6.04	5.52	5.62	5.31	5.18	5.24	81
Baja California Sur	6.97	6.06	5.47	5.61	5.54	5.65	5.47	73
Campeche	7.01	6.23	5.59	5.18	5.48	5.55	5.49	72
Coahuila de Zaragoza	6.89	6.14	5.28	5.49	5.21	5.26	5.23	82
Colima	4.84	4.14	3.79	3.65	3.57	3.63	3.59	91
Chiapas	7.32	6.70	6.11	6.02	6.00	6.10	6.13	51
Chihuahua	6.68	5.98	5.39	5.46	5.38	5.43	5.47	73
Ciudad de México	3.89	2.86	1.75	2.60	2.96	2.73	2.63	92
Durango	7.22	6.64	5.89	5.83	5.63	5.75	5.78	59
Guanajuato	7.17	6.43	3.52	5.96	5.72	5.62	5.61	65
Guerrero	7.19	6.58	4.38	5.72	6.03	5.85	6.00	54
Hidalgo	7.22	6.57	6.14	6.08	5.97	6.09	6.05	53
Jalisco	6.92	6.18	5.91	5.66	5.29	5.27	5.15	84
México	7.08	6.41	6.17	5.67	5.56	5.61	5.39	77
Michoacán de Ocampo	7.23	6.32	5.48	4.48	4.62	4.68	4.72	87
Morelos	7.14	6.39	5.87	5.92	5.86	5.87	5.87	56
Nayarit	7.18	6.63	6.01	6.05	5.92	5.94	5.90	55
Nuevo León	6.16	5.31	4.66	5.01	4.52	4.14	4.36	90
Oaxaca	7.39	6.75	6.36	6.16	6.22	6.11	6.27	49
Puebla	7.05	6.55	6.00	5.65	5.49	5.61	5.68	62
Querétaro	6.50	5.78	4.98	4.88	4.55	4.58	4.55	89
Quintana Roo	6.70	5.89	5.39	5.38	5.20	5.15	4.93	86
San Luis Potosí	7.19	6.54	5.94	5.81	5.40	5.67	5.61	65
Sinaloa	7.13	6.36	5.80	5.77	5.57	5.36	5.61	65
Sonora	7.05	6.32	5.61	5.92	5.76	5.71	5.62	64
Tabasco	7.17	6.53	5.61	5.74	5.85	5.77	5.69	61
Tamaulipas	5.81	5.32	4.92	5.18	5.03	4.66	4.70	88
Tlaxcala	7.39	6.75	6.29	6.28	6.19	6.18	6.16	50
Veracruz de Ignacio ...	6.75	6.18	5.91	5.79	5.58	5.55	5.54	70
Yucatán	7.07	6.45	5.89	5.84	5.71	5.71	5.64	63
Zacatecas	7.32	6.45	5.90	6.03	5.76	5.81	5.83	58

\* Rank out of 92, 2019

Table 3.7c: United States—Scores for Area 2 (Taxes) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.05</b>	<b>7.56</b>	<b>6.97</b>	<b>6.95</b>	<b>7.28</b>	<b>7.50</b>	<b>6.94</b>	<b>7.02</b>	<b>7.19</b>	<b>7.19</b>	
Alabama	6.70	8.19	7.59	7.49	7.95	8.11	7.59	7.62	7.80	7.84	2
Alaska	6.59	7.91	7.44	7.56	8.06	8.12	7.79	7.86	8.07	8.05	1
Arizona	6.24	7.68	7.19	7.12	7.51	7.62	7.29	7.39	7.55	7.53	10
Arkansas	6.37	7.93	7.01	6.69	6.75	6.72	6.65	6.65	6.84	6.93	37
California	5.71	7.36	6.85	6.71	7.02	7.23	6.66	6.72	6.85	6.81	42
Colorado	5.62	7.29	7.01	6.96	7.20	7.26	7.13	7.14	7.35	7.35	21
Connecticut	5.90	7.20	6.65	6.67	6.91	7.38	6.49	6.66	6.90	6.89	40
Delaware	5.02	7.01	6.37	6.56	6.76	6.74	6.07	6.13	6.03	5.85	57
Florida	6.77	7.96	7.28	7.12	7.48	7.75	7.20	7.24	7.38	7.42	15
Georgia	6.09	7.59	6.85	6.83	7.29	7.56	7.03	7.08	7.28	7.25	26
Hawaii	6.14	7.49	7.03	6.90	7.32	7.44	6.87	7.00	6.82	6.80	44
Idaho	6.16	7.58	6.98	6.90	7.19	7.76	7.22	7.30	7.50	7.52	11
Illinois	5.82	7.28	6.62	6.60	6.99	7.31	6.54	6.61	6.83	6.85	41
Indiana	6.17	7.61	7.29	7.18	7.26	7.49	7.00	7.14	7.37	7.29	23
Iowa	6.25	7.70	7.02	7.09	7.44	7.55	6.94	6.93	7.14	7.17	30
Kansas	5.97	7.49	6.79	6.65	6.96	7.43	6.92	7.02	7.05	7.08	34
Kentucky	6.10	7.87	7.04	7.23	7.61	7.68	6.97	7.01	7.26	7.19	27
Louisiana	6.41	7.81	7.45	7.47	7.39	7.47	6.86	6.87	7.14	7.26	24
Maine	5.99	7.53	6.89	6.81	7.18	7.53	6.91	6.99	7.21	7.07	35
Maryland	5.97	7.58	6.98	7.08	7.41	7.63	6.89	6.88	7.03	6.98	36
Massachusetts	5.91	7.45	6.86	6.71	7.11	7.32	6.62	6.76	6.77	6.77	45
Michigan	5.40	7.24	6.85	6.79	7.17	7.44	7.10	7.14	7.31	7.38	18
Minnesota	5.27	6.70	5.81	5.98	6.36	6.58	5.79	5.93	6.17	6.09	52
Mississippi	6.52	7.97	7.40	7.30	7.76	7.93	7.41	7.48	7.56	7.56	9
Missouri	6.03	7.46	6.89	6.91	7.39	7.57	6.79	6.76	7.06	7.18	29
Montana	6.11	7.49	7.10	6.98	7.70	7.94	7.46	7.57	7.72	7.74	3
Nebraska	5.86	7.35	6.61	6.80	7.03	7.39	6.72	6.71	6.90	6.91	38
Nevada	6.43	7.74	7.16	7.25	7.48	7.78	7.27	7.22	7.40	7.39	17
New Hampshire	6.89	7.97	7.32	7.47	7.81	7.90	7.24	7.27	7.46	7.58	8
New Jersey	5.78	7.18	6.35	6.43	6.58	6.81	6.18	6.32	6.47	6.50	47
New Mexico	6.39	7.82	7.24	7.27	7.82	8.01	7.47	7.55	7.80	7.68	5
New York	4.88	6.83	6.32	6.32	6.40	6.66	5.96	6.24	6.33	6.36	48
North Carolina	5.82	7.86	7.31	7.20	7.34	7.50	7.10	7.15	7.34	7.32	22
North Dakota	6.27	6.46	7.06	7.09	7.59	7.81	6.83	7.12	7.38	7.40	16
Ohio	5.58	7.32	6.57	6.47	6.63	6.88	6.45	6.52	6.79	6.81	42
Oklahoma	5.69	7.49	6.44	6.56	7.03	7.66	7.05	7.32	7.37	7.36	20
Oregon	5.77	7.36	7.14	7.00	7.54	7.47	7.00	7.12	7.30	7.26	24
Pennsylvania	6.05	7.55	6.89	6.91	7.25	7.49	6.87	6.96	7.16	7.16	32
Rhode Island	5.71	7.47	6.73	6.62	6.71	7.03	6.41	6.46	6.65	6.66	46
South Carolina	6.34	7.87	7.25	7.30	7.51	7.78	7.38	7.46	7.58	7.62	7
South Dakota	6.88	8.19	7.44	7.29	7.88	8.12	7.23	7.19	7.39	7.49	12
Tennessee	6.61	7.92	7.35	7.21	7.45	7.72	7.13	7.14	7.42	7.43	13
Texas	6.18	7.47	6.82	6.80	7.27	7.50	6.88	7.02	7.18	7.17	30
Utah	6.17	7.69	7.17	7.10	7.34	7.69	7.27	7.27	7.40	7.43	13
Vermont	5.52	7.60	6.88	6.87	7.08	7.35	6.68	6.74	6.90	6.90	39
Virginia	6.31	7.78	7.25	7.07	7.52	7.81	7.20	7.22	7.41	7.38	18
Washington	6.47	7.53	6.88	6.74	7.39	7.63	7.04	6.98	7.11	7.11	33
West Virginia	5.97	7.88	7.28	7.29	7.58	7.94	7.37	7.49	7.71	7.66	6
Wisconsin	5.58	7.36	6.70	6.71	7.12	7.20	6.87	6.93	7.17	7.19	27
Wyoming	6.01	7.75	7.22	7.42	7.60	7.52	7.12	7.48	7.65	7.71	4

\* Rank out of 92, 2019

Table 3.8a: Canada—Scores for Area 2 (Taxes) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.44</b>	<b>6.28</b>	<b>5.88</b>	<b>5.19</b>	<b>5.06</b>	<b>5.16</b>	<b>5.55</b>	<b>5.19</b>	<b>4.91</b>	<b>4.83</b>	<b>4.85</b>	
Alberta	7.73	7.78	7.24	7.13	6.67	8.03	7.79	7.59	7.35	7.13	6.68	1
British Columbia	6.09	6.47	6.84	5.41	5.52	7.00	6.84	6.17	6.05	5.74	5.67	2
Manitoba	6.32	5.69	5.54	4.99	4.36	4.79	5.03	4.58	4.54	4.44	4.48	7
New Brunswick	6.87	6.34	6.34	5.59	5.78	5.62	6.43	5.14	5.05	5.03	5.05	4
Newfoundland & Lab.	5.75	6.10	5.90	5.36	5.27	4.70	6.17	6.12	4.70	4.82	4.92	6
Nova Scotia	7.49	6.74	6.63	6.45	5.91	5.44	4.75	4.36	4.06	4.35	4.31	9
Ontario	7.01	6.65	4.74	4.15	4.84	4.49	5.08	4.44	4.00	4.09	4.36	8
Prince Edward Island	6.91	7.14	6.95	6.46	6.01	5.44	5.46	5.19	4.77	4.70	4.95	5
Quebec	3.92	3.24	3.42	2.66	2.77	2.78	3.14	2.63	2.70	2.81	2.95	10
Saskatchewan	6.36	6.66	5.20	3.69	3.46	3.27	4.85	5.71	5.85	5.21	5.16	3

\* Rank out of 10, 2019

Table 3.8b: Mexico—Scores for Area 2 (Taxes) at the Subnational Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.22</b>	<b>6.74</b>	<b>4.99</b>	<b>3.12</b>	<b>3.11</b>	<b>3.29</b>	<b>2.89</b>	
Aguascalientes	9.02	8.83	5.24	2.71	3.56	3.65	2.98	14
Baja California	6.51	5.83	4.80	3.50	1.98	1.78	1.92	22
Baja California Sur	6.33	3.42	1.91	1.53	1.84	1.90	1.31	26
Campeche	4.58	4.26	3.04	0.01	1.53	2.00	1.50	25
Coahuila de Zaragoza	7.79	7.44	5.90	2.48	2.11	2.92	2.06	21
Colima	8.76	7.47	3.57	2.66	2.19	2.50	1.85	23
Chiapas	7.95	7.89	5.02	4.07	6.13	5.62	6.12	2
Chihuahua	4.19	3.97	3.12	0.35	0.83	1.20	1.27	27
Ciudad de México	0.39	0.19	0.00	0.00	0.00	0.00	0.00	29
Durango	8.21	8.14	5.70	3.30	3.35	3.24	3.19	13
Guanajuato	9.10	6.88	4.94	4.68	4.30	3.49	2.45	20
Guerrero	7.04	6.87	4.73	2.84	4.57	5.76	5.02	5
Hidalgo	8.12	7.81	4.46	4.97	5.15	5.04	4.90	6
Jalisco	6.46	6.18	5.39	3.31	3.65	4.06	2.95	15
México	6.81	6.90	4.42	0.48	0.63	0.88	0.00	29
Michoacán de Ocampo	8.50	8.42	6.95	6.62	7.15	7.11	6.02	3
Morelos	8.41	7.81	5.59	4.00	3.92	4.28	4.17	8
Nayarit	8.03	7.79	5.37	4.54	4.41	4.80	4.42	7
Nuevo León	4.69	4.62	4.06	1.34	0.84	0.62	0.76	28
Oaxaca	9.42	9.21	8.93	5.06	6.08	6.41	6.36	1
Puebla	8.23	8.68	6.82	1.95	1.64	2.43	2.87	17
Querétaro	6.85	4.16	1.60	0.00	0.00	0.00	0.00	29
Quintana Roo	4.32	2.91	2.73	0.37	0.00	0.00	0.00	29
San Luis Potosí	8.96	8.47	6.79	3.33	3.75	4.32	3.51	12
Sinaloa	7.71	7.45	5.46	3.28	2.48	3.51	2.66	18
Sonora	6.99	6.74	4.97	4.18	3.78	3.59	2.59	19
Tabasco	8.25	8.53	5.26	3.67	3.75	4.26	4.03	9
Tamaulipas	6.18	6.67	5.58	4.79	3.62	3.83	3.54	11
Tlaxcala	9.19	8.89	8.53	6.45	6.42	6.26	5.85	4
Veracruz de Ignacio ...	7.59	7.40	6.54	4.55	3.79	3.99	3.75	10
Yucatán	7.82	7.80	5.51	1.99	2.27	2.34	1.53	24
Zacatecas	8.49	8.02	6.72	6.87	3.73	3.52	2.95	15

\* Rank out of 32, 2019

Data for Mexico are not available for years 1981–2002.

Table 3.8c: United States—Scores for Area 2 (Taxes) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>5.91</b>	<b>5.64</b>	<b>5.61</b>	<b>5.32</b>	<b>5.75</b>	<b>5.58</b>	<b>5.85</b>	<b>5.99</b>	<b>6.08</b>	<b>6.09</b>	<b>6.01</b>	
Alabama	7.09	6.98	7.05	6.98	6.92	7.01	7.03	7.23	7.20	7.18	7.16	6
Alaska	4.89	5.88	6.06	5.85	6.48	7.07	7.26	8.22	8.26	8.24	8.13	1
Arizona	6.44	5.90	4.97	5.35	6.08	6.13	6.22	6.71	6.78	6.82	6.68	13
Arkansas	6.64	6.23	6.36	5.86	5.85	5.46	5.66	5.88	5.98	6.03	6.03	28
California	4.84	4.60	4.72	4.41	4.73	4.55	4.47	4.46	4.63	4.40	4.23	45
Colorado	7.01	6.02	5.56	5.84	6.34	6.07	5.53	6.38	6.31	6.32	6.18	26
Connecticut	6.87	6.42	6.19	4.71	5.33	5.14	5.77	5.17	5.20	4.98	5.25	41
Delaware	4.51	4.84	5.46	4.71	5.75	5.70	5.40	5.72	5.84	5.50	4.80	43
Florida	7.83	7.30	6.79	6.30	6.73	6.44	6.69	7.57	7.56	7.51	7.60	3
Georgia	6.16	6.08	5.54	5.59	5.78	5.91	6.02	6.37	6.46	6.49	6.60	15
Hawaii	4.64	4.79	4.73	4.20	4.74	4.63	4.41	4.12	4.31	3.81	3.71	49
Idaho	5.79	5.55	5.09	4.70	4.99	4.91	5.76	6.14	6.09	6.19	6.25	22
Illinois	5.97	6.21	6.02	5.53	5.94	5.53	5.63	5.25	5.21	5.37	5.26	40
Indiana	6.97	6.37	6.54	6.02	6.25	5.23	5.92	6.67	6.84	6.87	6.70	12
Iowa	6.09	5.38	5.02	4.57	5.66	5.61	5.57	5.63	5.52	5.64	5.60	35
Kansas	5.49	5.13	5.64	5.01	5.61	5.09	5.46	6.13	6.03	5.76	5.81	32
Kentucky	6.35	6.27	5.97	5.21	5.69	5.84	6.11	6.05	6.10	6.19	6.23	23
Louisiana	7.71	6.29	5.92	6.79	6.49	6.16	6.65	6.74	6.43	6.59	6.60	15
Maine	4.76	4.47	4.46	3.92	3.94	3.80	4.72	4.12	4.58	4.60	4.14	46
Maryland	6.17	6.02	5.84	5.54	6.03	5.95	5.90	5.95	5.96	5.95	5.94	30
Massachusetts	4.92	5.64	5.59	5.13	5.87	5.50	5.78	5.65	5.83	5.75	5.69	34
Michigan	4.18	4.94	4.96	5.54	5.69	5.33	5.62	6.32	6.40	6.34	6.43	20
Minnesota	3.67	4.23	4.20	3.88	4.66	4.91	4.90	4.63	4.74	4.76	4.64	44
Mississippi	6.77	6.07	5.99	5.60	5.62	5.88	6.01	5.64	5.85	5.89	5.79	33
Missouri	7.38	7.13	6.81	6.10	6.49	6.30	6.73	6.38	6.42	6.69	6.97	8
Montana	5.67	5.01	4.36	4.50	5.13	5.87	6.40	6.33	6.66	6.47	6.49	18
Nebraska	5.30	5.50	5.73	5.05	5.44	4.92	5.46	5.43	5.34	5.34	5.33	39
Nevada	6.46	6.03	5.95	5.75	6.54	6.09	6.13	6.71	6.62	6.70	6.68	13
New Hampshire	7.56	7.49	7.14	6.75	7.33	6.89	6.89	7.00	7.13	7.00	7.03	7
New Jersey	5.81	5.64	5.51	4.43	5.31	4.35	4.44	4.48	4.60	4.61	3.98	48
New Mexico	6.49	6.36	5.58	5.29	5.37	6.17	6.71	6.10	6.23	6.55	5.94	30
New York	2.12	1.93	3.14	2.84	4.09	3.04	3.15	2.92	3.46	3.25	3.30	50
North Carolina	6.27	6.00	5.95	5.62	5.80	5.71	5.71	6.33	6.43	6.53	6.49	18
North Dakota	6.99	5.41	4.78	5.29	5.68	6.04	6.92	6.02	6.74	6.92	6.85	10
Ohio	6.10	5.01	5.35	4.43	5.23	4.80	5.59	6.02	6.00	6.22	6.23	23
Oklahoma	7.04	6.44	5.93	5.63	5.89	6.23	6.98	6.87	7.04	6.95	6.81	11
Oregon	4.05	3.85	3.95	5.31	5.35	5.62	5.50	5.89	5.82	5.61	5.41	38
Pennsylvania	6.06	6.10	6.17	5.53	6.17	5.62	5.92	5.96	6.02	6.04	5.98	29
Rhode Island	4.13	4.62	5.28	3.70	4.40	4.03	4.38	5.06	5.20	5.19	5.12	42
South Carolina	6.22	5.79	5.57	5.60	5.74	5.55	5.99	6.09	6.28	6.25	6.22	25
South Dakota	6.76	6.81	6.90	6.48	7.01	7.30	7.50	7.30	6.95	7.15	7.34	5
Tennessee	7.34	7.25	7.33	7.35	7.49	7.23	7.42	7.72	7.82	8.14	8.10	2
Texas	7.86	7.18	6.57	6.41	6.81	6.57	6.66	6.91	6.97	6.95	6.87	9
Utah	6.20	5.33	5.29	5.49	5.55	5.60	6.19	6.42	6.28	6.57	6.09	27
Vermont	3.86	4.07	4.90	4.15	4.68	4.02	4.43	4.19	4.17	4.17	4.10	47
Virginia	6.74	6.43	6.06	6.02	6.19	6.09	6.51	6.55	6.49	6.51	6.31	21
Washington	6.85	6.01	5.81	5.47	6.14	6.04	6.41	6.68	6.58	6.46	6.57	17
West Virginia	4.28	3.69	5.34	4.91	4.67	4.31	5.73	5.55	5.72	5.81	5.60	35
Wisconsin	4.53	3.80	4.40	3.92	4.73	4.76	4.72	5.41	5.49	5.64	5.59	37
Wyoming	5.49	5.57	6.02	6.54	7.02	5.89	5.60	6.50	7.26	7.61	7.45	4

\* Rank out of 50, 2019

Table 3.9a: Canada—Scores for Area 3 (Labor Market Freedom) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.21</b>	<b>7.53</b>	<b>7.71</b>	<b>8.04</b>	<b>8.17</b>	<b>8.14</b>	<b>8.10</b>	<b>8.27</b>	<b>8.16</b>	<b>8.05</b>	
Alberta	7.60	7.80	7.91	8.24	8.43	8.36	8.34	8.41	8.28	8.14	51
British Columbia	7.45	7.61	7.65	7.96	8.15	8.24	8.15	8.34	8.21	8.09	53
Manitoba	7.03	7.38	7.66	7.99	8.06	8.03	8.00	8.20	8.11	7.98	59
New Brunswick	7.14	7.54	7.76	8.08	8.23	8.18	8.11	8.29	8.17	8.07	54
Newfoundland & Labrador	6.83	7.24	7.59	7.94	8.09	8.03	8.05	8.19	8.11	8.03	57
Nova Scotia	7.14	7.60	7.77	8.10	8.22	8.16	8.09	8.30	8.20	8.07	54
Ontario	7.52	7.74	7.75	8.13	8.25	8.20	8.20	8.36	8.19	8.10	52
Prince Edward Island	7.25	7.59	7.79	8.10	8.14	8.11	8.01	8.23	8.11	8.00	58
Quebec	7.10	7.36	7.54	7.89	8.02	8.02	7.96	8.16	8.04	7.93	60
Saskatchewan	7.08	7.42	7.65	7.99	8.11	8.10	8.12	8.27	8.16	8.07	54

\* Rank out of 92, 2019

Table 3.9b: Mexico—Scores for Area 3 (Labor Market Freedom) at the All-Government Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.83</b>	<b>6.82</b>	<b>7.03</b>	<b>7.08</b>	<b>7.07</b>	<b>7.19</b>	<b>7.13</b>	
Aguascalientes	6.90	6.88	7.06	7.11	7.13	7.26	7.17	71
Baja California	7.04	7.00	7.20	7.27	7.26	7.37	7.32	61
Baja California Sur	6.90	6.92	7.09	7.16	7.18	7.30	7.26	64
Campeche	6.77	6.79	7.05	7.10	7.06	7.19	7.12	76
Coahuila de Zaragoza	6.77	6.76	7.05	7.06	6.98	7.11	7.03	87
Colima	6.84	6.87	7.10	7.14	7.12	7.25	7.19	70
Chiapas	6.69	6.65	6.90	6.96	6.95	7.08	7.07	81
Chihuahua	6.89	6.88	7.12	7.19	7.19	7.30	7.30	62
Ciudad de México	6.95	6.94	7.20	7.19	7.22	7.39	7.29	63
Durango	6.83	6.79	6.94	7.04	7.03	7.14	7.09	79
Guanajuato	6.84	6.83	7.05	7.15	7.15	7.20	7.11	77
Guerrero	6.63	6.64	6.85	6.92	6.90	7.01	7.02	88
Hidalgo	6.74	6.73	6.89	7.02	7.02	7.16	7.06	82
Jalisco	6.95	6.92	7.15	7.18	7.17	7.33	7.23	66
México	6.85	6.83	7.07	7.14	7.10	7.23	7.09	79
Michoacán de Ocampo	6.79	6.84	6.98	6.96	7.04	7.21	7.14	74
Morelos	6.89	6.86	7.08	7.07	7.05	7.18	7.11	77
Nayarit	6.87	6.90	7.03	7.10	7.08	7.20	7.16	72
Nuevo León	6.88	6.88	7.15	7.25	7.24	7.31	7.25	65
Oaxaca	6.71	6.65	6.94	6.92	6.92	7.04	7.05	84
Puebla	6.76	6.82	7.02	7.00	6.99	7.12	7.05	84
Querétaro	6.81	6.84	7.11	7.17	7.18	7.32	7.21	68
Quintana Roo	6.88	6.89	7.17	7.16	7.15	7.27	7.13	75
San Luis Potosí	6.74	6.79	6.98	6.99	6.99	7.13	7.05	84
Sinaloa	6.91	6.86	7.09	7.15	7.13	7.27	7.20	69
Sonora	6.91	6.90	7.05	7.17	7.16	7.26	7.22	67
Tabasco	6.64	6.73	6.94	7.02	7.00	7.11	7.06	82
Tamaulipas	6.72	6.71	6.93	7.01	6.99	7.07	7.00	90
Tlaxcala	6.94	6.81	6.96	6.93	6.93	7.07	6.99	92
Veracruz de Ignacio ...	6.72	6.74	6.97	6.94	6.91	7.03	7.02	88
Yucatán	6.87	6.86	7.07	7.13	7.11	7.25	7.15	73
Zacatecas	6.80	6.76	6.85	6.98	6.93	7.05	7.00	90

\* Rank out of 92, 2019

Table 3.9c: United States—Scores for Area 3 (Labor Market Freedom) at the All-Government Level, 1985–2019

	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>7.84</b>	<b>8.23</b>	<b>8.37</b>	<b>8.51</b>	<b>8.49</b>	<b>8.04</b>	<b>8.64</b>	<b>8.78</b>	<b>8.57</b>	<b>8.46</b>	
Alabama	7.68	8.21	8.35	8.52	8.48	8.02	8.61	8.81	8.57	8.48	23
Alaska	7.66	8.03	8.24	8.38	8.27	7.91	8.51	8.65	8.43	8.35	43
Arizona	8.05	8.41	8.44	8.59	8.56	8.06	8.66	8.76	8.52	8.36	41
Arkansas	7.81	8.23	8.40	8.55	8.55	8.09	8.68	8.80	8.57	8.47	24
California	7.84	8.16	8.34	8.47	8.39	7.96	8.57	8.70	8.48	8.36	41
Colorado	8.10	8.42	8.47	8.63	8.58	8.13	8.69	8.79	8.54	8.43	27
Connecticut	7.99	8.31	8.40	8.53	8.46	8.07	8.61	8.73	8.54	8.43	27
Delaware	7.96	8.35	8.43	8.53	8.49	8.06	8.66	8.79	8.59	8.47	24
Florida	8.12	8.47	8.48	8.61	8.57	8.13	8.68	8.86	8.65	8.53	15
Georgia	8.02	8.45	8.50	8.62	8.60	8.12	8.73	8.89	8.67	8.58	5
Hawaii	7.66	8.03	8.20	8.34	8.25	7.90	8.50	8.59	8.33	8.22	50
Idaho	7.85	8.32	8.43	8.56	8.56	8.04	8.68	8.86	8.66	8.55	12
Illinois	7.78	8.19	8.34	8.48	8.39	7.98	8.59	8.74	8.55	8.42	31
Indiana	7.67	8.12	8.34	8.47	8.48	8.02	8.64	8.82	8.62	8.51	19
Iowa	7.77	8.12	8.34	8.47	8.48	8.02	8.65	8.85	8.64	8.56	10
Kansas	7.97	8.31	8.42	8.56	8.54	8.10	8.67	8.83	8.62	8.53	15
Kentucky	7.68	8.19	8.35	8.48	8.49	8.03	8.60	8.74	8.55	8.49	21
Louisiana	7.92	8.32	8.44	8.54	8.54	8.14	8.71	8.88	8.66	8.56	10
Maine	7.71	8.09	8.33	8.47	8.42	8.02	8.60	8.70	8.44	8.30	47
Maryland	7.88	8.36	8.40	8.55	8.53	8.11	8.67	8.81	8.56	8.43	27
Massachusetts	7.97	8.33	8.41	8.53	8.47	8.07	8.65	8.77	8.54	8.42	31
Michigan	7.71	8.01	8.26	8.42	8.36	7.94	8.53	8.65	8.46	8.35	43
Minnesota	7.76	8.16	8.32	8.48	8.48	8.02	8.58	8.70	8.48	8.41	35
Mississippi	7.72	8.20	8.42	8.50	8.47	8.06	8.64	8.79	8.58	8.46	26
Missouri	7.80	8.28	8.36	8.51	8.49	8.05	8.65	8.80	8.57	8.39	37
Montana	7.54	8.03	8.29	8.42	8.47	7.99	8.58	8.73	8.51	8.43	27
Nebraska	7.92	8.30	8.43	8.56	8.56	8.08	8.70	8.80	8.61	8.49	21
Nevada	7.82	8.30	8.30	8.47	8.50	7.94	8.54	8.72	8.50	8.40	36
New Hampshire	8.19	8.42	8.43	8.61	8.57	8.12	8.70	8.84	8.64	8.54	14
New Jersey	7.86	8.16	8.29	8.48	8.42	8.05	8.62	8.76	8.56	8.38	40
New Mexico	7.84	8.29	8.38	8.47	8.49	8.02	8.64	8.79	8.58	8.42	31
New York	7.76	8.07	8.23	8.40	8.29	7.91	8.46	8.60	8.39	8.29	48
North Carolina	8.10	8.50	8.53	8.65	8.62	8.13	8.74	8.90	8.69	8.60	2
North Dakota	7.90	8.20	8.38	8.59	8.54	8.13	8.77	8.90	8.69	8.58	5
Ohio	7.70	8.10	8.31	8.45	8.43	7.99	8.58	8.74	8.51	8.42	31
Oklahoma	7.98	8.27	8.40	8.56	8.58	8.11	8.71	8.85	8.63	8.53	15
Oregon	7.60	7.98	8.25	8.39	8.34	7.89	8.51	8.66	8.44	8.32	45
Pennsylvania	7.73	8.14	8.32	8.47	8.49	8.02	8.64	8.81	8.60	8.51	19
Rhode Island	7.79	8.17	8.31	8.43	8.39	8.00	8.57	8.67	8.42	8.31	46
South Carolina	8.07	8.45	8.49	8.60	8.60	8.08	8.74	8.89	8.68	8.60	2
South Dakota	7.85	8.33	8.44	8.62	8.57	8.16	8.70	8.84	8.62	8.52	18
Tennessee	7.82	8.27	8.43	8.56	8.57	8.12	8.71	8.87	8.66	8.58	5
Texas	8.15	8.44	8.48	8.62	8.59	8.13	8.76	8.90	8.70	8.60	2
Utah	7.75	8.21	8.38	8.54	8.56	8.04	8.72	8.88	8.67	8.57	9
Vermont	7.91	8.28	8.41	8.51	8.41	8.02	8.56	8.72	8.51	8.39	37
Virginia	8.10	8.47	8.52	8.67	8.64	8.20	8.76	8.93	8.72	8.63	1
Washington	7.66	7.99	8.26	8.40	8.31	7.89	8.53	8.61	8.39	8.25	49
West Virginia	7.38	7.95	8.27	8.42	8.39	7.92	8.52	8.67	8.48	8.39	37
Wisconsin	7.70	8.13	8.34	8.46	8.43	8.01	8.70	8.85	8.65	8.55	12
Wyoming	7.84	8.22	8.41	8.57	8.58	8.16	8.75	8.91	8.70	8.58	5

\* Rank out of 92, 2019

Table 3.10a: Canada—Scores for Area 3 (Labor Market Freedom) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>1.99</b>	<b>2.41</b>	<b>3.39</b>	<b>4.03</b>	<b>5.04</b>	<b>5.37</b>	<b>4.99</b>	<b>5.42</b>	<b>5.04</b>	<b>4.76</b>	<b>4.61</b>	
Alberta	3.31	3.98	4.90	6.28	7.42	8.17	7.27	8.37	6.74	6.26	5.79	1
British Columbia	3.30	4.17	4.51	3.73	3.91	4.69	5.57	5.77	5.60	5.26	4.95	6
Manitoba	1.47	1.58	2.30	3.29	4.14	4.10	3.68	4.38	4.27	4.20	3.83	9
New Brunswick	1.50	1.81	3.49	4.86	5.59	6.27	5.81	5.69	5.35	5.04	5.09	3
Newfoundland & Lab.	0.94	0.31	1.18	2.19	3.46	4.28	3.70	4.87	4.03	4.10	4.30	7
Nova Scotia	1.22	1.74	4.21	5.20	6.19	6.52	5.37	5.29	5.26	5.30	5.00	4
Ontario	4.04	4.51	4.77	4.47	6.02	6.28	5.61	6.52	6.04	5.14	5.18	2
Prince Edward Island	2.18	3.09	4.15	5.80	6.60	6.11	5.61	4.27	4.48	4.07	4.04	8
Quebec	1.25	1.79	2.50	1.74	3.21	3.07	2.94	3.58	3.48	3.17	2.95	10
Saskatchewan	0.70	1.07	1.93	2.75	3.82	4.19	4.32	5.47	5.14	5.04	4.98	5

\* Rank out of 10, 2019

Table 3.10b: Mexico—Scores for Area 3 (Labor Market Freedom) at the Subnational Level, 2003–2019

	2003	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>6.91</b>	<b>6.74</b>	<b>8.01</b>	<b>7.77</b>	<b>6.26</b>	<b>6.27</b>	<b>5.66</b>	
Aguascalientes	5.61	5.56	7.11	7.23	6.44	6.38	5.32	20
Baja California	9.25	8.84	9.53	9.65	9.03	8.91	8.40	1
Baja California Sur	3.82	4.62	6.06	6.79	6.72	6.85	6.68	6
Campeche	6.11	5.74	6.56	6.57	4.83	5.10	4.45	26
Coahuila de Zaragoza	4.44	4.53	7.24	5.62	4.97	5.07	4.21	28
Colima	6.46	5.90	7.59	7.09	6.36	6.48	5.80	15
Chiapas	8.41	8.37	8.73	8.75	5.27	5.33	5.46	18
Chihuahua	8.01	7.90	9.17	9.32	8.24	8.07	8.01	3
Ciudad de México	7.62	7.57	8.78	8.84	8.84	9.15	8.04	2
Durango	6.02	6.00	7.51	7.52	5.42	5.27	4.65	25
Guanajuato	8.98	8.97	9.57	9.54	7.76	7.11	6.20	11
Guerrero	7.01	6.22	8.17	7.23	4.21	3.93	3.97	30
Hidalgo	8.04	7.78	8.44	8.68	5.64	5.86	5.17	23
Jalisco	8.42	8.11	9.10	8.85	7.64	8.05	7.06	5
México	8.46	8.01	9.38	9.40	7.38	7.61	6.30	10
Michoacán de Ocampo	8.55	8.61	8.66	8.53	6.19	6.56	5.83	14
Morelos	9.17	8.87	9.83	8.20	6.32	6.67	5.99	13
Nayarit	5.48	5.46	6.86	6.96	5.82	5.85	5.48	17
Nuevo León	6.00	6.41	7.98	7.81	8.45	7.92	7.34	4
Oaxaca	8.28	7.96	8.49	8.19	5.22	5.16	5.34	19
Puebla	9.85	9.43	9.88	9.81	6.73	6.72	6.52	9
Querétaro	6.59	6.95	8.45	8.52	7.52	7.86	6.65	8
Quintana Roo	4.84	5.92	8.00	7.43	7.09	7.06	5.57	16
San Luis Potosí	6.83	6.15	7.22	6.80	5.03	5.12	4.36	27
Sinaloa	7.73	7.09	8.65	7.93	6.73	6.92	6.05	12
Sonora	6.39	6.18	7.29	7.39	7.21	7.04	6.67	7
Tabasco	4.55	3.16	5.40	4.63	3.45	3.34	3.12	32
Tamaulipas	3.84	3.85	5.76	4.91	5.12	4.76	4.11	29
Tlaxcala	5.72	5.68	7.19	7.45	5.39	5.07	4.78	24
Veracruz de Ignacio ...	7.54	7.52	9.06	8.17	5.41	5.38	5.28	21
Yucatán	7.33	6.99	8.01	8.45	6.13	6.27	5.24	22
Zacatecas	5.85	5.45	6.52	6.36	3.79	3.60	3.23	31

\* Rank out of 32, 2019

Data for Mexico are not available for years 1981–2002.



Table 3.10c: United States—Scores for Area 3 (Labor Market Freedom) at the Subnational Level, 1981–2019

	1981	1985	1990	1995	2000	2005	2010	2015	2017	2018	2019	Rank*
<b>Average</b>	<b>2.19</b>	<b>2.94</b>	<b>3.93</b>	<b>4.64</b>	<b>5.40</b>	<b>6.08</b>	<b>5.35</b>	<b>6.28</b>	<b>6.25</b>	<b>6.32</b>	<b>6.23</b>	
Alabama	1.72	2.18	3.34	4.06	5.01	5.80	4.70	5.68	6.17	6.04	6.21	27
Alaska	1.09	2.04	2.71	3.31	3.91	3.87	4.41	4.81	4.56	4.58	4.79	44
Arizona	2.42	3.35	4.57	5.00	6.02	6.92	5.40	6.28	5.54	5.36	4.93	42
Arkansas	2.69	2.99	3.39	4.56	5.27	6.31	5.08	6.20	5.81	6.11	5.75	34
California	2.19	3.81	3.84	4.73	5.22	5.20	4.73	5.89	5.73	5.63	5.36	38
Colorado	2.60	4.12	5.19	6.00	7.07	7.40	6.39	6.95	6.38	6.05	5.72	35
Connecticut	2.94	4.76	5.07	5.64	6.07	6.04	6.21	6.53	6.19	6.52	6.42	23
Delaware	1.68	3.22	4.97	5.47	5.76	6.34	5.66	6.49	6.51	6.68	6.42	23
Florida	2.88	4.08	5.30	5.85	6.56	7.16	6.45	6.93	7.32	7.34	7.13	14
Georgia	2.35	3.34	4.97	5.87	6.63	7.28	5.96	7.19	7.47	7.56	7.73	3
Hawaii	2.43	3.51	4.64	3.52	4.39	4.53	4.89	5.30	4.65	4.25	4.43	48
Idaho	2.16	2.56	3.77	4.73	5.33	6.47	4.81	6.40	6.81	7.05	7.10	15
Illinois	2.21	3.23	4.37	4.78	5.57	5.32	4.90	6.11	6.23	6.56	6.22	26
Indiana	2.19	2.36	3.50	4.52	5.16	6.04	5.02	6.40	6.79	6.98	7.03	16
Iowa	1.71	1.63	2.79	3.90	4.82	5.86	4.92	6.37	6.78	6.93	7.14	13
Kansas	1.84	2.83	3.85	4.62	5.47	6.22	5.60	6.52	6.51	6.66	6.80	18
Kentucky	2.27	2.45	3.46	4.21	4.86	5.95	4.85	5.76	5.78	6.04	6.48	21
Louisiana	1.67	2.29	3.19	4.16	4.63	5.92	5.80	6.87	7.09	7.17	7.24	12
Maine	2.02	2.28	3.17	4.22	5.12	5.27	5.24	5.99	5.32	4.88	4.21	49
Maryland	1.72	3.95	5.85	6.08	6.92	7.84	7.37	7.04	7.06	6.52	6.21	27
Massachusetts	2.42	4.19	5.11	5.80	6.25	6.49	6.34	7.06	6.59	6.58	6.29	25
Michigan	1.41	2.44	3.37	3.95	4.66	4.99	4.18	5.34	5.06	5.22	5.19	40
Minnesota	2.04	2.93	3.66	4.24	5.41	6.36	5.44	5.87	5.62	5.60	5.86	32
Mississippi	2.27	2.54	2.95	3.98	4.00	4.96	4.27	5.35	5.46	5.61	5.54	36
Missouri	2.55	3.02	4.46	4.89	5.50	6.30	5.46	6.37	6.45	6.43	5.49	37
Montana	1.44	1.17	2.13	3.34	4.10	5.90	4.85	5.51	5.63	5.68	5.89	31
Nebraska	1.95	2.36	3.92	4.98	5.83	6.71	5.64	6.83	6.22	6.50	6.44	22
Nevada	2.67	3.73	4.94	5.15	5.85	7.01	4.68	5.62	6.06	6.01	6.01	29
New Hampshire	2.77	4.58	5.23	5.71	6.93	7.36	6.45	7.42	7.41	7.69	7.71	4
New Jersey	1.72	3.77	4.69	4.13	5.75	5.87	5.87	6.54	6.59	6.76	5.86	32
New Mexico	1.50	2.04	2.91	3.73	4.17	5.13	4.26	5.30	5.40	5.58	4.80	43
New York	1.51	2.85	3.75	3.90	4.48	4.21	4.41	4.96	5.01	4.93	4.79	44
North Carolina	3.08	3.64	5.00	5.93	6.47	7.11	5.75	7.03	7.25	7.41	7.61	6
North Dakota	2.38	2.49	3.19	4.26	5.67	6.36	6.28	7.68	7.39	7.57	7.54	7
Ohio	2.17	2.57	3.65	4.28	4.98	5.65	4.87	5.80	5.92	5.88	5.96	30
Oklahoma	2.71	2.95	3.60	4.37	5.39	6.65	5.58	6.64	6.51	6.64	6.66	19
Oregon	1.57	1.78	2.33	3.43	3.83	4.35	3.60	4.89	4.97	4.86	4.66	46
Pennsylvania	2.66	3.19	4.44	4.78	5.67	6.68	5.76	6.91	7.23	7.35	7.49	9
Rhode Island	2.33	3.33	3.84	4.49	4.95	5.45	5.65	5.92	5.51	5.20	5.08	41
South Carolina	3.20	3.68	4.42	5.05	5.64	6.61	4.98	6.71	6.93	7.16	7.39	10
South Dakota	2.31	2.61	4.07	4.94	6.24	6.98	6.58	6.73	6.62	6.69	6.60	20
Tennessee	2.37	2.92	4.17	5.38	6.01	7.04	6.02	7.12	7.34	7.49	7.71	4
Texas	3.36	4.03	4.83	5.34	6.24	7.02	6.14	7.56	7.60	7.83	7.97	2
Utah	2.12	2.78	3.51	4.59	5.46	6.76	5.25	7.00	7.21	7.42	7.52	8
Vermont	2.58	2.82	4.11	4.99	5.37	5.15	5.17	5.42	5.47	5.42	5.31	39
Virginia	2.95	4.57	5.99	6.68	7.46	8.32	7.56	7.72	7.97	8.11	8.22	1
Washington	1.81	2.58	3.01	3.43	4.16	4.09	3.76	5.16	4.43	4.42	3.88	50
West Virginia	0.90	0.68	1.35	2.76	3.67	4.70	3.58	4.29	4.17	4.58	4.66	46
Wisconsin	1.95	2.13	3.31	4.32	4.98	5.72	5.01	6.93	7.08	7.27	7.31	11
Wyoming	2.27	1.47	2.73	3.96	5.32	6.44	5.89	6.82	6.81	7.10	6.97	17

\* Rank out of 50, 2019



# Appendix A

## Methodology

### Calculating the scores

To avoid subjective judgments, objective methods were used to calculate and weight the components. For all components, each observation was transformed into a number from zero to 10 using the following formula:  $(V_{\max} - V_i) / (V_{\max} - V_{\min}) \times 10$ , where (unless otherwise stated)  $V_{\max}$  is the largest value found within a component,  $V_{\min}$  is the smallest, and  $V_i$  is the observation to be transformed. The 2005 data were used to derive the maximum and minimum values for each variable. In some cases, there were severe outliers that skewed the scores substantially, so we chose a lower maximum or higher minimum, typically the mean plus or minus between one and four standard deviations (see Appendix B and *Economic Freedom of the World*, which uses a similar approach). When an observation equals or exceeds the 2005 maximum, it is given a score of 0; when it equals or falls below the 2005 minimum, it is given a score 10. For each component, the calculation was performed for all data for all years to allow comparisons over time.

To transform the individual components into specific areas and the overall summary index, multiple categories were created. In the subnational index, Areas 1, 2, and 3 were equally weighted, and each of the components within each area was equally weighted. For example, the weight for Area 1 was 33.3%. Area 1 has three components, each of which received equal weight in calculating Area 1, or 11.1% in calculating the overall index. The all-government index adds the following:

- one additional component to Area 1—ID: Government Investment (the country score for variable 1C in *Economic Freedom of the World: 2020 Annual Report* [EFW]);
- one additional component to Area 2B—2Bii: Top marginal income and payroll tax rate (the country score for variable 1Dii in EFW);
- eight additional components to Area 3—
  - 3Aiv–ix: the six components of Labor market regulation (variable 5B in EFW),
  - 3B: Credit Market Regulations (variable 5A in EFW), and
  - 3C: Business Regulations (variable 5C in EFW);

- Area 4: Legal System and Property Rights (Area 2 in the EFW);
- Area 5: Sound Money (Area 3 in the EFW); and
- Area 6: Freedom to Trade Internationally (Area 4 in the EFW).

Thus, it has six areas. Each area was equally weighted and each of the components within each area was equally weighted. More details on the calculations and data sources for the adjusted index can be found in Appendix B.

### **Fiscal variables**

In order to produce comparable tax and spending data for jurisdictions that are of widely different sizes and income levels, all such variables are measured as a percentage of income, as is the minimum wage variable. In Canada and Mexico, we use “household income”. In the United States, the comparable concept is called “personal income”.

### **Income tax**

Calculating the income-tax component was more complicated. The component examining the top marginal income-tax rate and the income threshold at which it applies was transformed into a score from zero to 10 using **Matrix 1**, **Matrix 2a**, and **Matrix 2b**. Canadian nominal thresholds were first converted into constant 2018 Canadian dollars by using the Consumer Price Index and then converted into US dollars using the Purchasing Power Parity between Canada and the United States for each year. US nominal thresholds were converted into real 2018 US dollars using the Consumer Price Index. Mexican nominal thresholds were first converted into constant 2018 Mexican Pesos by using the *Indice Nacional de Precios al Consumidor* (National Consumer Price Index) and then converted into US dollars using the Purchasing Power Parity between Mexico and the United States for each year. This procedure is based on the transformation system found in *Economic Freedom of the World: 1975–1995* (Gwartney, Lawson, and Block, 1996), modified for this study to take into account a different range of top marginal tax rates and income thresholds. Matrix 1 was used in calculating the score for Component 2Bi, Top Marginal Income Tax Rate and the Income Threshold at Which It Applies, at the all-government level; Matrix 2a was used to calculate the score for Component 2B at the subnational level for Canada, and Matrix 2b was used for the United States. Since there are no subnational income taxes in Mexico, this variable was not included in the Mexican subnational index.

In setting the threshold levels for income taxes at the subnational level, we faced an interesting quandary. In the United States, most state thresholds were below US federal thresholds in the 1980s and 1990s. In Canada, provincial thresholds were frequently higher than federal thresholds. Whenever the provincial or state threshold was higher than the federal threshold, the federal threshold was used at the sub-national level since, when a provincial threshold is above the national level, the cause is typically the imposition of a relatively small surcharge on those earning high incomes. Because of the structure of these matrixes, this can produce perverse scoring results. For example, in Matrix 2b a jurisdiction gets a score of 2.5 if it has a

**Matrix 1: Income Tax Matrix for Component 2B at the All-Government Level**

Top Marginal Tax Rate	Income Threshold Level (US\$2019)		
	Less than \$65,452	\$65,452 to \$130,905	More than \$130,905
27% or less	10.0	10.0	10.0
27% to 30%	9.0	9.5	10.0
30% to 33%	8.0	8.5	9.0
33% to 36%	7.0	7.5	8.0
36% to 39%	6.0	6.5	7.0
39% to 42%	5.0	5.5	6.0
42% to 45%	4.0	4.5	5.0
45% to 48%	3.0	3.5	4.0
48% to 51%	2.0	2.5	3.0
51% to 54%	1.0	1.5	2.0
54% to 57%	0.0	0.5	1.0
57% to 60%	0.0	0.0	0.5
60% or more	0.0	0.0	0.0

**Matrix 2a: Income Tax Matrix for Component 2B at the Subnational Level in Canada**

Top Marginal Tax Rate	Income Threshold Level (US\$2019)		
	Less than \$65,452	\$65,452 to \$130,905	More than \$130,905
3.0% or less	10.0	10.0	10.0
3.0% to 6.0%	9.0	9.5	10.0
6.0% to 9.0%	8.0	8.5	9.0
9.0% to 12.0%	7.0	7.5	8.0
12.0% to 15.0%	6.0	6.5	7.0
15.0% to 18.0%	5.0	5.5	6.0
18.0% to 21.0%	4.0	4.5	5.0
21.0% to 24.0%	3.0	3.5	4.0
24.0% to 27.0%	2.0	2.5	3.0
27.0% to 30.0%	1.0	1.5	2.0
30.0% to 33.0%	0.0	0.5	1.0
33.0% to 36.0%	0.0	0.0	0.5
36.0% or more	0.0	0.0	0.0

**Matrix 2b: Income Tax Matrix for Component 2B at the Subnational Level in the United States**

Top Marginal Tax Rate	Income Threshold Level (US\$2019)		
	Less than \$65,452	\$65,452 to \$130,905	More than \$130,905
1.5% or less	10.0	10.0	10.0
1.5% to 3.0%	9.0	9.5	10.0
3.0% to 4.5%	8.0	8.5	9.0
4.5% to 6.0%	7.0	7.5	8.0
6.0% to 7.5%	6.0	6.5	7.0
7.5% to 9.0%	5.0	5.5	6.0
9.0% to 10.5%	4.0	4.5	5.0
10.5% to 12.0%	3.0	3.5	4.0
12.0% to 13.5%	2.0	2.5	3.0
13.5% to 15.0%	1.0	1.5	2.0
15.0% to 16.5%	0.0	0.5	1.0
16.5% to 18.0%	0.0	0.0	0.5
18.0% or more	0.0	0.0	0.0

top marginal income-tax rate of, say, 12.5% for incomes over \$65,452. Let us say the jurisdiction imposes a surcharge for income earners above \$130,905, increasing the top marginal income-tax rate to 13%. In Matrix 2b, even though additional taxes in the form of a surcharge have been imposed, the state's score perversely increases to 3.0 because of the increase in the threshold level.

Our decision to use the federal threshold as the default threshold when the provincial threshold was higher is, frankly, a matter of judgment. Thus, it was important to understand whether this would affect the results significantly. To see whether this was so, we calculated the overall index both ways and found that changes were small and that the overall results were not significantly affected.

## **Adjustment factors**

We faced a common problem in comparing statistics across time, changes in the structure of some series over time. Similarly, some Canadian spending categories were not strictly comparable to those in the United States. This required the use of judgment in some cases. Spending on medical care, for example, is structured as government consumption in Canada and as a set of transfer programs in the United States. Given that the index captures the impact of both government consumption and of transfer programs, we decided the most accurate method of accounting was to reflect the actual nature of the spending, a transfer program in the United States and government consumption in Canada, rather than artificially include one or other in an inappropriate component. The same phenomenon occurs on the revenue side where the entire US Social Security program is funded by a dedicated payroll tax, whereas in Canada part of the similar program, Old Age Security, is funded by general tax revenues. Those revenues are included in variable 2A for US states and in variable 2C for Canadian provinces.

### **Other adjustments**

Our earlier source of government finance data in Canada was discontinued in 2010, with the last year of data being 2009. As a result, in recent years we had used the change in overall aggregates in spending and revenue to produce estimates for the government finance variables in Area 1 and Area 2. The new data series became available in 2015, after the 2015 edition had gone to print. That new data was first incorporated into the 2016 edition. It goes back to 2007. To smooth the transition between the two series, for 2006 we used the average of that new 2007 data and the 2005 data from the previous data series. The two data series are not identical. There were changes in the way that spending and revenue categories were defined. However, this did not create any major changes in the relative rankings of the provinces.

The fiscal data for the US states comes from the US Census Bureau.

The Tax Foundation calculated the federal tax burden by US state up to the year 2005 using sophisticated techniques but has not issued updates in recent years. As several years of data are missing, we use data on federal tax collections within each state directly from the US Internal Revenue Service.

The historical data for federal spending in the US states comes from the Consolidated Federal Funds Report, which has been discontinued. The last year available is 2010. We used the annual percentage increases in the subnational amounts for the years since 2010 to calculate annual estimates for the federal amounts for both 1A and 1B for those years.

Variable 1C measures insurance and retirement payments as a percentage of income. Because there are several US states where retirees form an abnormally large percentage of the population, using federal spending in each state skews the scores on this variable in a way that does not reflect differences in economic freedom (but rather reflects differences in demographics). In the US states, the US total for this variable, as a percentage of total US income, was used as the federal component for this variable (and simply added to the subnational spending for each state as a percentage of their state income). Since that phenomenon does not exist in Canada and Mexico, this adjustment was not made for the Canadian provinces and Mexican states.

There is a similar issue in the all-government index with regard to Variable 2A, which measures income and payroll taxes. Because states with low corporate income-tax (CIT) burdens tend to attract corporate relocations, those states may tend to have inordinately large revenue from corporate income tax. At the state level, when a corporation has operations in multiple states, taxable corporate income is apportioned based on activity within each state. At the federal level, there are wide disparities in federal CIT revenue collected in the various states (measured as a percentage of personal income) that cannot be driven by differences in state policy. For that reason, we have used the national average in each country for the federal CIT portion of 2A in each state or province.

Variable 2D measures sales and gross receipts taxes. Several Mexican states with large ports have abnormally high values for this variable, in some cases exceeding 100% of personal income. Because that revenue goes to the federal government, we have instead used the same national total for this variable, as a percentage of personal income, for the federal component of this variable for each Mexican state. This adjustment was not necessary for Canada or the United States.





# Appendix B

## Explanation of Components and Data Sources

### Area 1 Government Spending

**Component 1A** General Consumption Expenditures by Government as a Percentage of Income  
General consumption expenditure is defined as total expenditures minus transfers to persons, transfers to businesses, transfers to other governments, and interest on public debt. Spending on fixed capital is also excluded. Data for Quebec is adjusted for Quebec abatement at the subnational level. On the all-government index, there were several Mexican states that were far outliers for this variable and therefore skewed the standardized scores. To account for this, in calculating those scores, we used a lower maximum value of the mean plus 2 standard deviations. (A similar approach is used in the annual reports of *Economic Freedom of the World*.)

#### Sources

- Canada** Special request from Finance Canada, Federal-Provincial Relations and Social Policy Branch, Federal-Provincial Relations Division (September, 2021) • Statistics Canada, *Provincial and Territorial Economic Accounts, 1981–2008* <[www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](http://www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm)> • Statistics Canada, Public Institutions Division, Financial Management System, 2005, 2007, 2008 • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2019*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.
- United States** Special request from US Census Bureau, Governments Division, Federal Programs Branch (February 2, 2005) • Special request from US Census Bureau, Governments Division (December 14, 2007) • US Census Bureau (2021). *Annual Survey of State and Local Government Finances and Census of Governments (1981–2019)*. <[www.census.gov/programs-surveys/gov-finances.html](http://www.census.gov/programs-surveys/gov-finances.html)> • US Census Bureau, *Consolidated Federal Funds Report* (various editions) • US Census Bureau, *Statistical Abstract of the United States* (various editions) • US Department of Commerce, Bureau of Economic Analysis. <[www.bea.gov/](http://www.bea.gov/)>.

**Mexico** Instituto Nacional de Estadística y Geografía (INEGI), *Estadísticas de Finanzas Municipales y Estatales* (various years). <[www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx](http://www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx)> (June, 2021) • *Anexo estadístico del 1<sup>er</sup> Informe de Gobierno de Enrique Peña Nieto 2012-2013* (Statistical Appendix from Enrique Peña Nieto 1<sup>st</sup> “State of the Union Address” 2012–2013) <[www.presidencia.gob.mx/](http://www.presidencia.gob.mx/)>. • *Anexo estadístico del 2<sup>do</sup> Informe de Gobierno de Enrique Peña Nieto 2013–2014*; *Anexo estadístico del 3<sup>er</sup> informe de Gobierno de Enrique Peña Nieto 2014–2015*; *Anexo estadístico del 4<sup>to</sup> informe de Gobierno de Enrique Peña Nieto 2015–2016*; *Anexo estadístico del 5<sup>to</sup> informe de Gobierno de Enrique Peña Nieto 2016–2017*; *Anexo estadístico del 6<sup>to</sup> informe de Gobierno de Enrique Peña Nieto 2017–2018*; *Anexo estadístico del 1<sup>er</sup> informe de Gobierno de Andrés M. López Obrador 2018–2019* [Statistical Appendices from Enrique Peña Nieto’s and Andrés M. López Obrador’s “State of the Union Address”].

#### Component 1B Transfers and Subsidies as a Percentage of Income

Transfers and subsidies include transfers to persons and businesses like welfare payments, grants, agricultural assistance, food-stamp payments (US), housing assistance. Foreign aid is excluded. Data for Quebec is adjusted for the Quebec abatement at the sub-national level. On the all-government index, there were several Mexican states that were far outliers for this variable and therefore skewed the standardized scores. To account for this, in calculating those scores, we used a lower maximum value of the mean plus 2 standard deviations. (A similar approach is used in *Economic Freedom of the World*.)

#### Sources

**Canada** Special request from Finance Canada, Federal-Provincial Relations and Social Policy Branch, Federal-Provincial Relations Division (September, 2021) • Statistics Canada, Provincial and Territorial Economic Accounts, 1981–2008 <[www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](http://www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm)> • Statistics Canada, Public Institutions Division, Financial Management System, 2005, 2007, 2008 • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2019*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.

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**Mexico** Instituto Nacional de Estadística y Geografía (INEGI), *Estadísticas de Finanzas Municipales y Estatales* (various years). <[www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx](http://www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx)> (June, 2021) • Cuenta de la Hacienda Pública Federal, Secretaría de Hacienda y Crédito Público, <[www.shcp.gob.mx/EGRESOS/contabilidad\\_gubernamental/Paginas/cuenta\\_publica.aspx](http://www.shcp.gob.mx/EGRESOS/contabilidad_gubernamental/Paginas/cuenta_publica.aspx)>.

**Component 1C Insurance and Retirement Payments as a Percentage of Income**

Payments by Employment Insurance, Workers Compensation, and various pension plans are included in this component. As explained in Appendix A, for the US states, the federal component of insurance and retirement payment spending (as a percentage of US income) that we use is the same for every state.

**Sources**

- Canada** Statistics Canada, *Provincial and Territorial Economic Accounts, 1981–2008* <[www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](http://www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm)> • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2019*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.
- United States** Special request from US Census Bureau, Governments Division (December 14, 2007) • US Census Bureau (2021). *Annual Survey of State and Local Government Finances and Census of Governments (1981–2019)*. <[www.census.gov/programs-surveys/gov-finances.html](http://www.census.gov/programs-surveys/gov-finances.html)> • US Department of Commerce, Bureau of Economic Analysis, <[www.bea.gov/](http://www.bea.gov/)>.
- Mexico** Instituto Nacional de Estadística y Geografía (INEGI), *Estadísticas de Finanzas Municipales y Estatales* (various years). <[www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx](http://www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx)> (June, 2021) • Private Sector—special request from Instituto Mexicano del Seguro Social: Total de Cuotas de Trabajadores Seguridad Social por estado (June, 2021) • Public Sector—special request from Instituto de Seguridad y Servicios Sociales de los Trabajadores del Estado (June, 2020).

**Component 1D Government Investment (*all-government index only*)**

When government engages in more of what would otherwise be private investment, economic freedom is reduced. This variable, used only in the all-government index, is the country score for variable 1C in *Economic Freedom of the World: 2021 Annual Report*. A detailed description and the data sources can be found in that report, available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

**Area 2 Taxes****Component 2A Income and Payroll Tax Revenue as a Percentage of Income**

Income and Payroll Tax Revenue is defined as the sum of personal income taxes, corporate income taxes, and payroll taxes used to fund social-insurance schemes (i.e., employment insurance, Workers Compensation, and various pension plans). As explained in Appendix A, the federal component of corporate income tax revenue that we use is the same for every state within the same country. Data for Quebec is adjusted for the Quebec abatement at the subnational level.

**Sources**

- Canada** Special request from Finance Canada, Federal-Provincial Relations and Social Policy Branch, Federal-Provincial Relations Division (September, 2020) • Statistics Canada, *Provincial and Territorial Economic Accounts, 1981–2008*. <[www.statcan.gc.ca](http://www.statcan.gc.ca)>.

[gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](https://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047)> • Statistics Canada, Public Institutions Division, Financial Management System, 2005, 2007, 2008 • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2018*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.

**United States** US Census Bureau (2020). *Annual Survey of State and Local Government Finances and Census of Governments (1981–2017)*. <[www.census.gov/programs-surveys/gov-finances.html](http://www.census.gov/programs-surveys/gov-finances.html)> • US Census Bureau (2020). *2018 Annual Survey of State Government Finances*. <[www.census.gov/programs-surveys/state.html](http://www.census.gov/programs-surveys/state.html)> • US Department of Commerce, Bureau of Economic Analysis, <[www.bea.gov/](http://www.bea.gov/)> • Internal Revenue Service, Table 5: Total Internal Revenue collections, *Internal Revenue Service Data Book, 2018* (and previous editions). <<https://www.irs.gov/statistics/soi-tax-stats-gross-collections-by-type-of-tax-and-state-irs-data-book-table-5>>.

**Mexico** Instituto Nacional de Estadística y Geografía (INEGI), *Estadísticas de Finanzas Municipales y Estatales* (various years). <[www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx](http://www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx)> (July, 2020) • Instituto Nacional de Estadística y Geografía, *El ingreso y el gasto público en México*. <<http://www.beta.inegi.org.mx/app/biblioteca/ficha.html?upc=702825003876>> • Special request from Servicio de Administración Tributaria: Recaudación bruta federal por entidad federativa (various years) (May, 2019).

**Component 2Bi** Top Marginal Income Tax Rate and the Income Threshold at Which It Applies  
See Matrix 1, Matrix 2a, and Matrix 2b in Appendix A (pp. 55–60) for information on how the final scores were calculated. Data for Quebec is adjusted for Quebec abatement at the subnational level.

### Sources

**Canada** Baldwin, John, and Ryan Macdonald (2010). *PPPs: Purchasing Power or Producing Power Parities?* Economic Analysis Research Paper Series. Cat. 11F0027M. No. 058. Statistics Canada • Canadian Tax Foundation, *Canadian Tax Journal*, Provincial Budget Roundup (2003, 2002, 2001, 2000), by Deborah L. Ort and David B. Perry • Canadian Tax Foundation, *Finances of the Nation* (various issues) • Palacios, Milagros (2008). *Purchasing Power Parity, United States and Canada, 1981–2005*. Fiscal Studies, Fraser Institute • Statistics Canada, CANSIM, 2012 • Statistics Canada, *National Economic Accounts, 2012* • Statistics Canada, *Provincial Economic Accounts, 2012*. • Canada Revenue Agency, <<https://www.canada.ca/en/revenue-agency/services/forms-publications/tax-packages-years/archived-general-income-tax-benefit-package-2018.html>>.

**United States** Tax Foundation (Washington, DC). *The 2018 Tax Brackets*. <<https://taxfoundation.org/2016-tax-brackets>> • Tax Foundation (Washington, DC). *U.S. Federal Individual Income Tax Rates History, 1862–2013*. <[taxfoundation.org/article/us-federal-individual-income-tax-rates-history-1913-2013-nominal-and-inflation-adjusted-brackets](https://taxfoundation.org/article/us-federal-individual-income-tax-rates-history-1913-2013-nominal-and-inflation-adjusted-brackets)> • Tax Foundation (Washington, DC). *State Individual Income Tax Rates and Brackets for 2018*. <<https://taxfoundation.org/publications/state-individual-income-tax-rates-and-brackets/>> • US Department of Labor, Bureau of Labor Statistics, <[www.bls.gov/cpi/](http://www.bls.gov/cpi/)>.

**Mexico** Servicio de Administración Tributaria. *Tarifa para el cálculo del impuesto sobre la renta anual*. • Secretaría de Gobernación, *Diario Oficial de la Federación*, <[www.dof.gob.mx/nota\\_detalle.php?codigo=702618&fecha=03/02/2003](http://www.dof.gob.mx/nota_detalle.php?codigo=702618&fecha=03/02/2003)>; <[www.dof.gob.mx/nota\\_detalle.php?codigo=789412&fecha=07/03/2005](http://www.dof.gob.mx/nota_detalle.php?codigo=789412&fecha=07/03/2005)>; <<https://www.sat.gob.mx/articulo/36785/articulo-152>>.

**Component 2Bii** Top Marginal Income and Payroll Tax Rate (*all-government index only*)

This variable, used only in the all-government index, is the country score for variable 1Dii in *Economic Freedom of the World: 2021 Annual Report*. A detailed description and data sources can be found in that report, available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

**Component 2C** Property Tax and Other Taxes as a Percentage of Income

Property and Other Tax revenue consists of total tax revenue minus income and sales tax revenues (which are already included in 2A and 2D). Natural resource royalties and severance taxes are not included in this component. Data for Quebec is adjusted for the Quebec abatement at the subnational level. On the all-government index, there were several Mexican states that were far outliers for this variable that skewed the standardized scores. To account for this, in calculating those scores, we used a lower maximum value of the mean plus 3 standard deviations. (A similar approach is used in *Economic Freedom of the World*.)

**Sources**

- Canada** Special request from Finance Canada, Federal-Provincial Relations and Social Policy Branch, Federal-Provincial Relations Division (September, 2020) • Statistics Canada, *Provincial and Territorial Economic Accounts, 1981–2008*. <[www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](http://www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm)> • Statistics Canada, Public Institutions Division, Financial Management System, 2005, 2007, 2008 • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2018*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.
- United States** US Census Bureau (2020). *Annual Survey of State and Local Government Finances and Census of Governments (1981–2017)*. <[www.census.gov/programs-surveys/gov-finances.html](http://www.census.gov/programs-surveys/gov-finances.html)> • US Census Bureau (2020). *2018 Annual Survey of State Government Finances*. <[www.census.gov/programs-surveys/state.html](http://www.census.gov/programs-surveys/state.html)> • Internal Revenue Service. Table 5: Total Internal Revenue collections, *Internal Revenue Service Data Book, 2018* (and previous editions). <<https://www.irs.gov/statistics/soi-tax-stats-gross-collections-by-type-of-tax-and-state-irs-data-book-table-5>>.
- Mexico** Instituto Nacional de Estadística y Geografía (INEGI), *Estadísticas de Finanzas Municipales y Estatales* (various years). <[www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx](http://www.inegi.org.mx/est/contenidos/proyectos/registros/economicas/finanzas/default.aspx)> (July, 2020) • Instituto Nacional de Estadística y Geografía, *El ingreso y el gasto público en México*, <<http://www.beta.inegi.org.mx/app/biblioteca/ficha.html?upc=702825003876>> • Special request from Servicio de Administración Tributaria: Recaudación bruta federal por entidad federativa (various years) (May, 2019).



**Component 2D Sales Tax Revenue as a Percentage of Income**

Sales tax revenue includes revenue from all sales and gross receipts taxes (including excise taxes and value-added taxes). As explained in Appendix A, we use the same national average percentage for every state in Mexico. Data for Quebec is adjusted for the Quebec abatement at the subnational level. On the all-government index, several Mexican states were far outliers for this variable and skewed the standardized scores. To account for this, in calculating those scores, we used a lower maximum value of the mean plus 1.5 standard deviations. A similar approach is used in *Economic Freedom of the World*.

**Sources**

- Canada** Special request from Finance Canada, Federal-Provincial Relations and Social Policy Branch, Federal-Provincial Relations Division (September, 2021) • Statistics Canada, *Provincial and Territorial Economic Accounts, 1981–2008*. <[www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm](http://www.statcan.gc.ca/pub/13-018-x/13-018-x2011001-eng.htm)> • Statistics Canada, Public Institutions Division, Financial Management System, 2005, 2007, 2008 • Statistics Canada, *Provincial and Territorial Economic Accounts, 2007–2019*. <<http://www5.statcan.gc.ca/cansim/a26?lang=eng&retrLang=eng&id=3840047>>.
- United States** US Census Bureau (2021). *Annual Survey of State and Local Government Finances and Census of Governments (1981–2019)*. <[www.census.gov/programs-surveys/gov-finances.html](http://www.census.gov/programs-surveys/gov-finances.html)> • Internal Revenue Service. Table 5: Total Internal Revenue collections, *Internal Revenue Service Data Book, 2019* (and previous editions). <<https://www.irs.gov/statistics/soi-tax-stats-gross-collections-by-type-of-tax-and-state-irs-data-book-table-5>>.
- Mexico** Instituto Nacional de Estadística y Geografía, *El ingreso y el gasto público en México*, <<http://www.beta.inegi.org.mx/app/biblioteca/ficha.html?upc=702825003876>> • Special request from Servicio de Administración Tributaria: Recaudación bruta federal por entidad federativa (various years) (February, 2021).

**Area 3 Regulation****Component 3A Labor Market Regulation****3Ai Minimum Wage**

This component was calculated as minimum wage multiplied by 2,080, which is the full-time equivalent measure of work hours per year (52 weeks multiplied by 40 hours per week) as a percentage of per-capita income. For the Canadian provinces, provincial minimum wage was used to compute both of the indices (subnational and all-government). For the United States, the federal minimum wage supersedes state minimum wages when it is higher so, for those states, the higher federal wage is used instead. On all three subnational indexes, there were several states that were far outliers for this variable and therefore skewed the standardized scores. To account for this, in calculating those scores, we used a lower maximum value of the mean plus 3 standard deviations for Canada, the mean plus 4 standard deviations for the United States, and the mean plus 2 standard deviations for Mexico. (A similar approach is used in *Economic Freedom of the World*.)

### Sources

- Canada** Human Resources Development Canada, <<http://srv116.services.gc.ca/dimt-wid/sm-mw/rpt2.aspx?lang=eng&dec=5>> (August 24, 2021).
- United States** Division of External Affairs, Wage and Hour Division, Employment Standards Administration, US Department of Labor, <[www.dol.gov/whd/state/state.htm](http://www.dol.gov/whd/state/state.htm)> (May 24, 2011) • Division of External Affairs, Wage and Hour Division, US Department of Labor, *Changes in Basic Minimum Wages in Non-Farm Employment under State Law: Selected Years 1968 to 2020*, <[www.dol.gov/whd/state/stateMinWageHis.htm](http://www.dol.gov/whd/state/stateMinWageHis.htm)> (July, 2021) • Wage and Hour Division, US Department of Labor, *State Minimum Wage Laws in the States - July 1, 2019*, <[www.dol.gov/agencies/whd/minimum-wage/state](http://www.dol.gov/agencies/whd/minimum-wage/state)>.
- Mexico** Comisión Nacional de los Salarios Mínimos, *Tabla de salarios mínimos generales y profesionales por áreas geográficas*, <<https://www.gob.mx/conasami/documentos/tabla-de-salarios-minimos-generales-y-profesionales-por-areas-geograficas>> (July, 2021).

- 3Aii** *Government Employment as a Percentage of Total State/Provincial Employment*  
Government employment includes public servants as well as those employed by government business enterprises. Military employment is excluded.

### Sources

- Canada** Statistics Canada, *Provincial and Territorial Economic Accounts, 2012* • Statistics Canada, Public Institutions Division, Financial Management System (various years) • Statistics Canada, table 183-0002: Public Sector Employment, <[www5.statcan.gc.ca/cansim/pick-choisir?lang=eng&searchTypeByValue=1&id=1830002](http://www5.statcan.gc.ca/cansim/pick-choisir?lang=eng&searchTypeByValue=1&id=1830002)> • Statistics Canada, Table 14-10-0070-01, *Labour Force Survey Estimates (LFS), Employees by Union Coverage, North American Industry Classification System (NAICS), Sex and Age Group, Annual (Persons x 1,000)*, <<https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1410007001>>.
- United States** Regional Economic Information System, Bureau of Economic Analysis, US Department of Commerce, <[www.bea.gov/regional/index.htm](http://www.bea.gov/regional/index.htm)>.
- Mexico** Instituto Nacional de Geografía y Estadística, Banco de información económica, *Indicadores macroeconómicos del sector público*, <[www.inegi.org.mx/sistemas/bie/](http://www.inegi.org.mx/sistemas/bie/)> • ISSSTE (Instituto de Seguridad y Servicios Sociales de los Trabajadores del Estado) *Statistical Yearbooks* (various years), <<https://www.gob.mx/issste/documentos/anuarios-estadisticos>> • Instituto Mexicano de Seguridad Social, *Memoria Estadística 2014 and 2015*, <[www.imss.gob.mx/conoce-al-imss/memoria-estadistica-2013](http://www.imss.gob.mx/conoce-al-imss/memoria-estadistica-2013)> • Special request to Comisión Federal de Electricidad: “Number of employees by state 2003–2013 and 2014–2015 (July, 2015; February, 2021).

### 3Aiii Union Density

For this component, our goal was to determine the relationship between unionization and public policy, other than the level of government employment, which is captured in 3Aii. We regressed union density on the size of the government sector. Data were not available to allow a regression on rural compared to urban populations. The government sector proved highly significant. Thus, the scores were determined holding public-sector employment constant: we calculated the union score by regressing the

unionization rate on government employment for each given year using the following equation:  $Unionization_i = \alpha + \beta Government_i + residual_i$ . Then, we took the estimated intercept,  $\alpha$ , and we added it to the residual. We found that this accounts for the decline in unionization rates through time and that the average union scores increase through time to reflect that decline.

### Sources

- Canada** Statistics Canada, *CANSIM, 2011* • Statistics Canada, *Labour Force Historical Review 2010* (CD-ROM) • Statistics Canada, *Provincial and Territorial Economic Accounts, 2011* • Statistics Canada, Public Institutions Division, Financial Management System (various years) • Statistics Canada, Table 14-10-0070-01, *Labour Force Survey Estimates (LFS), Employees by Union Coverage, North American Industry Classification System (NAICS), Sex and Age Group, Annual (Persons x 1,000)*, <<https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=1410007001>>.
- United States** Barry T. Hirsch and David A. Macpherson, *Union Membership and Coverage Database from the Current Population Survey*, <[www.unionstats.com/](http://www.unionstats.com/)> • Regional Economic Information System, Bureau of Economic Analysis, US Department of Commerce, <[www.bea.gov/](http://www.bea.gov/)>.
- Mexico** Instituto Nacional de Estadística y Geografía, *Encuesta Nacional de Ocupación y Empleo*, <<http://www.beta.inegi.org.mx/proyectos/enchogares/regulares/enoe/>> • Instituto Nacional de Estadística y Geografía, *Encuesta Nacional de Ingresos y Gastos de los Hogares*, <<https://www.inegi.org.mx/programas/enigh/nc/2020/>>.

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**Note** Data in Area 3 added for the all-government index

The additional data used for the all-government index is from *Economic Freedom of the World: 2021 Annual Report* (Gwartney, Lawson, Hall, and Murphy, 2021), which is also published by the Fraser Institute. Minimum-maximum calculations are based on the 162 nations and territories covered by the world report. This is not ideal, since the minimum-maximum calculations for other components are based on data from the states and provinces. However, since the data were not typically available at the sub-national level, this does provide an appropriate measure of the difference in economic freedom among Canada, the United States, and Mexico. The world data are available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

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## Area 3 Regulation (components used in all-government index only)

Since, as discussed above, Canada and the United States have been diverging on scores for business and credit regulation, the all-government index expands the regulatory area to include data on these areas. Labour regulation becomes one of three equally weighted components of Area 3: Regulation, which comprises 3A: Labour market regulation; 3B: Regulation of credit markets; and 3C: Business regulations. (See Appendix A for how Area 3 is now calculated.)



The descriptions and sources for these components and subcomponents can be found in *Economic Freedom of the World: 2021 Annual Report*, which is available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

Component 3A Labor Market Regulation (component 5B in *Economic Freedom of the World*)

- 3Aiv *Hiring regulations and minimum wage*
- 3Av *Hiring and firing regulations*
- 3Avi *Centralized collective bargaining*
- 3Avii *Hours regulations*
- 3Aviii *Mandated cost of worker dismissal*
- 3Aix *Conscription*

Component 3B Regulation of credit markets (component 5A in *Economic Freedom of the World*)

- 3Bi *Ownership of banks*
- 3Bii *Private sector credit*
- 3Biii *Interest rate controls / negative real interest rates*

Component 3C Business regulations (component 5C in *Economic Freedom of the World*)

- 3Ci *Administrative requirements*
- 3Cii *Bureaucracy costs*
- 3Ciii *Starting a business*
- 3Civ *Impartial public administration*
- 3Cv *Licensing restrictions*
- 3Cvi *Cost of tax compliance*

## Area 4 Legal System and Property Rights

(Area 2 in *Economic Freedom of the World*)

The descriptions and sources for these components and subcomponents can be found in *Economic Freedom of the World: 2021 Annual Report*, which is available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

- 4A Judicial independence
- 4B Impartial courts
- 4C Protection of property rights
- 4D Military interference in rule of law and politics
- 4E Integrity of the legal system
- 4F Legal enforcement of contracts
- 4G Regulatory restrictions on the sale of real property
- 4H Reliability of police

## Area 5 Sound Money

(Area 3 in *Economic Freedom of the World*)

The descriptions and sources for these components and subcomponents can be found in *Economic Freedom of the World: 2021 Annual Report*, which is available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

- 5A Money growth
- 5B Standard deviation of inflation
- 5C Inflation: most recent year
- 5D Freedom to own foreign currency bank accounts

## Area 6 Freedom to Trade Internationally

(Area 4 in *Economic Freedom of the World*)

The descriptions and sources for these components and subcomponents can be found in *Economic Freedom of the World: 2021 Annual Report*, which is available at <<https://www.fraserinstitute.org/studies/economic-freedom-of-the-world-2021-annual-report>>.

- 6A Tariffs
  - 6Ai *Revenue from trade taxes (% of trade sector)*
  - 6Aii *Mean tariff rate*
  - 6Aiii *Standard deviation of tariff rates*
- 6B Regulatory trade barriers
  - 6Bi *Non-tariff trade barriers*
  - 6Bii *Compliance costs of importing and exporting*
- 6C Black-market exchange rates
- 6D Controls of the movement of capital and people
  - 6Di *Financial openness*
  - 6Dii *Capital controls*
  - 6Diii *Freedom of foreigners to visit*

## Appendix C

### Selected Recent\* Publications Using *Economic Freedom of North America*

Altin, Mehmet, Jorge Ridderstaat, Gabriela Lelo de Larrea, and Mehmet Ali Köseoglu (2020). Influence of Institutional Economics on Firm Birth and Death: A Comparative Analysis of Hospitality and Other Industries. *International Journal of Hospitality Management* 86, 10: 24–42.

Anderson, Patrick L. (2019). Business Strategy and Firm Location Decisions: Testing Traditional and Modern Methods. *Business Economics* 54, 1: 35–60.

Arif, Imran, Adam Hoffer, Dean Stansel, and Donald Lacombe (2020). Economic Freedom and Migration: A Metro Area-Level Analysis. *Southern Economic Journal* 87: 170–190.

Arroy, Maria Fernanda Cruz (2019). A Detailed Study about the Angel Investors in Terms of Economic Freedom. *International Journal of Management, IT and Engineering* 9, 8: 115–122.

Bagiatis, Christos, Anna Saiti, and Michael Chletsos (2020). Entrepreneurship, Economic Crisis, and the Role of Higher Education: Evidence from Greece. *Industry and Higher Education* 34, 3: 177–189.

Balliew, Sean, Timothy Mathews, and Joshua C. Hall (2020). Measuring Economic Freedom: An Alternative Functional Specification and Subsequent Ranking. *Applied Economics* 52, 14: 1582–1591.

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\* There have been over 330 academic journal articles, public policy studies, and books that have cited *Economic Freedom of North America*. The list given in Appendix C comprises publications from 2019, 2020, and the first half of 2021. For a more comprehensive list that includes older publications, see Appendix C in *Economic Freedom of North America 2017* or see Citations in Professional Literature of the Fraser Institute's Economic Freedom Research at <<https://www.fraserinstitute.org/economic-freedom/citations>>.

Bashir, Muhammad F., M.A. Benjiang, Luqman Shahzad, Biao Liu, and Qiangjia Ruan (2021). China's Quest for Economic Dominance and Energy Consumption: Can Asian Economies Provide Natural Resources for the Success of One Belt One Road? *Managerial and Decision Economics* 42, 3: 570–587.

Bastani, Hamsa, Joel Goh, and Mohsen Bayati (2019). Evidence of Upcoding in Pay-for-Performance Programs. *Management Science* 65, 3: 1042–1060.

Beland, Louis-Philippe, and Bulent Unel (2019). Politics and Entrepreneurship in the US. *Canadian Journal of Economics* 52, 1: 33–57.

Bennett, Daniel L. (2019). Infrastructure Investments and Entrepreneurial Dynamism in the US. *Journal of Business Venturing* 34, 5: 1–28 (Article 105907).

Bennett, Daniel L. (2021). Local Economic Freedom and Creative Destruction in America. *Small Business Economics* 56: 333–353.

Bennett, Daniel L., and Jason T. Long (2019). Is It the Economic Policy, Stupid? Economic Policy, Political Parties & the Gubernatorial Incumbent Advantage. *European Journal of Political Economy* 58: 118–137.

Berggren, Niclas, and Christian Bjørnskov (2020). Institutions and Life Satisfaction. In Klaus Zimmermann, ed., *Handbook of Labor, Human Resources and Population Economics* (Springer): 1–48.

Bergh, Andreas, and Christian Bjørnskov (2019). Does Economic Freedom Boost Growth for Everyone? IFN Working Paper No. 1276.

Bolen, J. Brandon (2019). The Dynamic Properties of Institutional Reform: An Analysis of US States. *Journal of Institutional Economics* 15, 3: 539–551.

Bordelon, Rod (2020). *Eliminating Unnecessary and Harmful Regulations*. Texas Public Policy Foundation.

Bykova, Anna, and Dennis Coates (2020). Firm Performance and Regional Economic Freedom: The Case of Russia. *Post-Soviet Affairs* 36, 5-6: 395–415.

Callais, Justin T. (2021). Laissez les Bons Temps Rouler? The Persistent Effect French Civil Law Has on Corruption, Institutions, and Incomes in Louisiana. *Journal of Institutional Economics* 17, 4: 663–680.

Cebula, Richard J. (2019). Labor Market Freedom and Geographic Differentials in the Percentage Unemployment Rate in the US. *Journal of Economics and Finance* 43, 4: 828–840.

Cebula, Richard J., and Gigi M. Alexander (2020). Economic and Noneconomic Factors Influencing Geographic Differentials in Homelessness: An Exploratory State-Level Analysis. *American Journal of Economics and Sociology* 79, 2: 511–540.

Cebula, Richard J., John E. Connaughton, and Caroline Swartz (2020). Right-to-Work Laws as Economic Freedom: Their Role in Influencing the Geographic Pattern of Manufacturing Jobs, Incomes, and Finances. *American Business Review* 23, 2: 12.

Cebula, Richard J., Malissa L. Davis, James V. Koch, and James William Saunoris (2020). The Relationship between Entrepreneurial Activity and Domestic Gross State In-Migration Patterns in the US. *Applied Economics* 52, 41: 4542–4556.

Cebula, Richard J., Christopher M. Duquette, and G. Jason Jolley (2019). The Impact of Labor Market Freedom on State-Level In-Migration in the US. *Journal of Entrepreneurship and Public Policy* 9, 1: 40–52.

Cebula, Richard J., and James W. Saunoris (2021). Determinants of Homelessness in the US: New Hypotheses and Evidence. *Applied Economics* 53, 5: 1-15.

Chambers, Dustin, and Colin O'Reilly (2020). Regulation and Income Inequality in the United States. *European Journal of Political Economy*, forthcoming.

Chen, Can, and Shaoming Cheng (2019). The Effects of Corruption and Regulation on Business Entrepreneurship: Evidence from American States. *Public Performance & Management Review*. 42, 6: 1481–1506.

Christafore, David, and Susane Leguizamon (2019). Taste-Based Discrimination, Tolerance and the Wage Gap: When Does Economic Freedom Help Gay Men? *Kyklos* 72, 3: 426–445.

Dove, John A. (2020). Opportunity Entrepreneurship and Regulation: A State-Level Analysis. *Applied Economics Letters* 27, 12: 987–991.

Dove, John A., and Laura R. Dove (2020). US State Tort Liability Reform and Entrepreneurship. *Review of Law & Economics* 16, 3: 1–45.

Eren, Ozean, Masayuki Onda, and Bulent Unel (2019). Effects of FDI on Entrepreneurship: Evidence from Right-to-Work and non-Right-to-Work states. *Labour Economics* 58: 98–109.

Felzensztein, Christian, George Saridakis, Bochra Idris, and Gabriel P. Elizondo (forthcoming). Do Economic Freedom, Business Experience, and Firm Size Affect Internationalization Speed? Evidence From Small Firms in Chile, Colombia, and Peru. *Journal of International Entrepreneurship*.

Friske, Wesley, and Seth Cockrell (2019). Entrepreneurship, Excise Taxes, and the “Flight to Quality”. *Journal of Macromarketing* 39, 4: 358–367.

Friske, Wesley M., and Miles A. Zachary (2019). Regulation, New Venture Creation, and Resource-Advantage Theory: An Analysis of the US Brewing Industry. *Entrepreneurship Theory and Practice* 43, 5: 999–1017.

Graafland, Johan (2020). When Does Economic Freedom Promote Well Being? On the Moderating Role of Long-Term Orientation. *Social Indicators Research* 149, 1: 127–153.

Graafland, Johan (2020). Contingencies in the Relationship between Economic Freedom and Human Development: The Role of Generalized Trust. *Journal of Institutional Economics* 16, 1: 271–286.

Hadsell, Lester, and Adam T. Jones (2020). The Company You Keep: Satisfaction with Life, Economic Freedom, and Preference-Policy Mismatch. *Journal of Comparative Economics* 48, 3: 642–657.

Hankins, William B., and Gary A. Hoover (2019). Do Democratic Governors Lower Economic Freedom? A Regression Discontinuity Approach. *Journal of Public Finance and Public Choice* 34, 2: 101–126.

Hall, Joshua C., Donald J. Lacombe, and Timothy M. Shaughnessy (2019). Economic Freedom and Income Levels across US States: A Spatial Panel Data Analysis. *Contemporary Economic Policy* 37, 1: 40–49.

Hall, Joshua, Amanda Ross, and Jamie Bologna Pavlik (2020). Laissez-Faire Economic Policy in a World Where Gender Income Gaps Exist: Helping or Hurting? *Journal of Economics, Race, and Policy* 3, 2: 144–158.

Isaac, Sánchez Juárez, and Rosa García-Almada (2020). Empleo Formal y Libertad Económica Regional en México. *Economía y Sociedad* 25, 57: 126–158.

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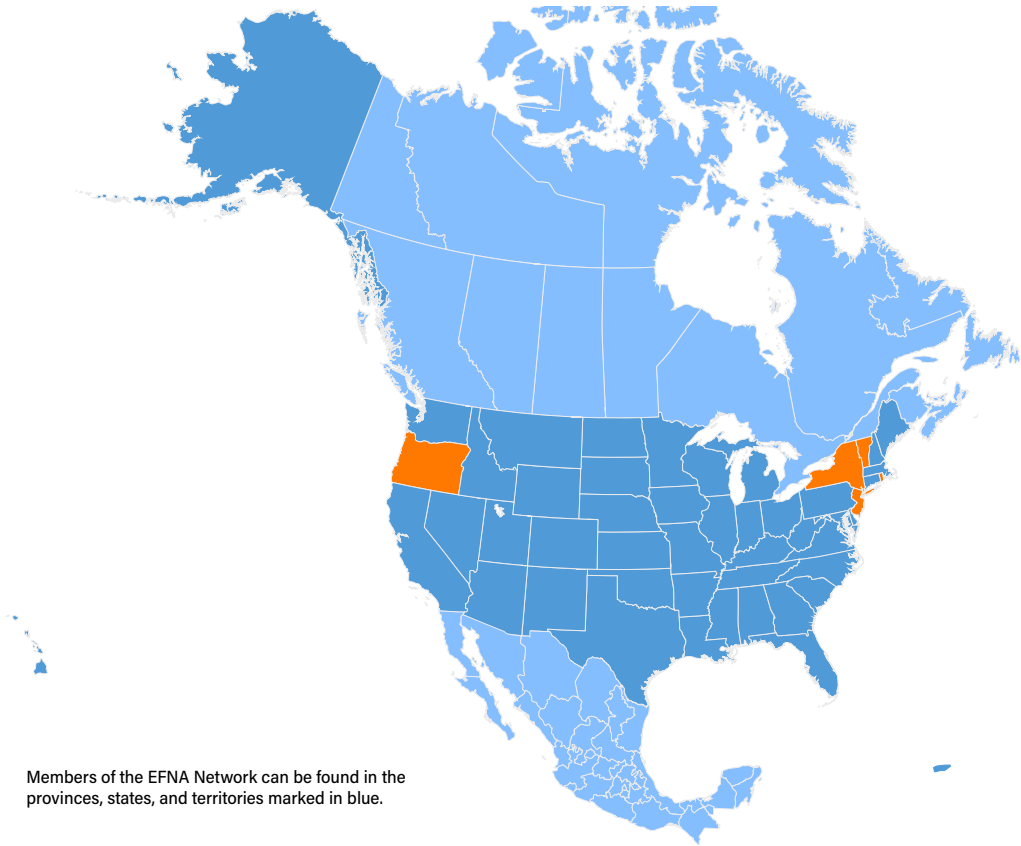
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School of Business at Arizona State University; our scholars enjoy academic freedom and share with each other a basic commitment to a freer, more prosperous world. Founded in 2014, the Center for the Study of Economic Liberty is dedicated to serving students and the public through research, education, and community outreach on the most pressing national and international economic policy issues.

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Oakland, California • [www.independent.org](https://www.independent.org)

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Golden Valley, Minnesota • [www.americanexperiment.org](http://www.americanexperiment.org)

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Mississippi State, Mississippi • <http://www.ims.msstate.edu>

*Mississippi Center for Public Policy*

The Mississippi Center for Public Policy (MCP) is an independent, non-profit, public-policy organization based in Jackson, Mississippi. MCP works to promote and protect the concepts of free markets, limited government, and strong traditional families.

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St. Charles, Missouri • [hammondinstitute.org](http://hammondinstitute.org)

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Helena, Montana

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Omaha, Nebraska • [www.creighton.edu/instituteforeconomicinquiry](http://www.creighton.edu/instituteforeconomicinquiry)

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Las Vegas, Nevada • [npri.org](http://npri.org)

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The Granite Institute is a 501(c)(3) non-profit, non-partisan research and educational organization based in Concord. We envision New Hampshire as the freest state in the union, where families thrive because of access to high-quality education choices, a growing economy that attracts entrepreneurs, and a financially viable system to care for our elderly.

Concord, New Hampshire • [www.graniteinstitute.org](http://www.graniteinstitute.org)

***Josiah Bartlett Center for Public Policy***

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**New Mexico** ***Rio Grande Foundation***

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**North Carolina** *Center for the Study of Free Enterprise at Western Carolina University*

Our mission is to provide economics research and thought leadership on issues pertaining to economic development in North Carolina, the region, and beyond, by conducting scholarly inquiry, policy analysis, educational activities, and community outreach on the role of free enterprise in a flourishing society

Cullowhee, North Carolina • [affiliate.wcu.edu/csfe](http://affiliate.wcu.edu/csfe)

*John Locke Foundation*

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Fargo, North Dakota • [ndsu.edu/centers/pcpe](http://ndsu.edu/centers/pcpe)

**Ohio** *Buckeye Institute*

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Columbus, Ohio • [www.buckeyeinstitute.org](http://www.buckeyeinstitute.org)

**Oklahoma** *Institute for the Study of Free Enterprise at Oklahoma State University*

The mission of the Institute for the Study of Free Enterprise is to promote economic freedom, competitive markets, private ownership, and individual choice. We work to facilitate campus-wide discussions on those issues as they relate to value creation in society, personal liberty, and human flourishing. In addition, we coordinate OSU courses related to free enterprise, sponsor the Free Enterprise Society, provide scholarships and fellowships for students from all disciplines who are interested in free enterprise principles, and support faculty and student research.

Stillwater, Oklahoma • [fe.okstate.edu](http://fe.okstate.edu)

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The Commonwealth Foundation transforms free-market ideas into public policies so all Pennsylvanians can flourish.

Harrisburg, Pennsylvania • [www.commonwealthfoundation.org](http://www.commonwealthfoundation.org)

**Puerto Rico**    *Instituto de Libertad Económica para Puerto Rico*

The Puerto Rico Institute for Economic Liberty (ILE) is a 501(c)(3) research free-market think tank. We contribute knowledge and evidence-based recommendations on a wide range of existing and emerging policy issues, for the economic growth of the island. ILE exists to ensure all residents of Puerto Rico can unleash their potential and create their own success.

San Juan, Puerto Rico • [ilepr.org](http://ilepr.org)

**South Carolina**    *Palmetto Promise Institute*

Founded in 2013 by a visionary group of entrepreneurs, scholars, philanthropists, and public servants, Palmetto Promise Institute promotes a flourishing South Carolina where every citizen has the opportunity to reach their full potential. We strive to be a beacon of aspiration in a sea of negativity, inspired by South Carolina's state motto: "While I breathe, I hope". With a core focus on education, health care, tax, and energy policy research, PPI is the Palmetto State's trusted champion of free enterprise and human flourishing.

Columbia, South Carolina • [palmettopromise.org](http://palmettopromise.org)

**South Dakota**    *Great Plains Public Policy Institute*

The mission of the Great Plains Public Policy Institute is to formulate and promote free enterprise solutions to public-policy problems based on the principles of individual responsibility, limited government, privatization, and traditional American values.

Sioux Falls, South Dakota • [www.greatplainsppi.org](http://www.greatplainsppi.org)

**Tennessee**    *Beacon Center of Tennessee*

The Beacon Center of Tennessee empowers Tennesseans to reclaim control of their lives, so that they can freely pursue their version of the American dream.

Nashville, Tennessee • [www.beacontn.org](http://www.beacontn.org)

*Center for Economic Education at the University of Tennessee at Chattanooga*

The Center for Economic Education offers programs for teachers and students to provide a better understanding of the theory and practice of capitalism, and the positive relationship between private enterprise and economic prosperity.

Chattanooga, Tennessee • <https://www.utc.edu/probasco-chair-free-enterprise/index.php>

**Texas**    *Lone Star Policy Institute*

The Lone Star Policy Institute is an independent think tank that promotes freedom and prosperity for all Texans. We advance public-policy solutions that encourage

Texans' enterprising spirit, expand personal and economic freedom, and improve the quality of life for the people of Texas and in cities throughout the country.

Dallas, Texas • [lonestarpolicyinstitute.org](http://lonestarpolicyinstitute.org)

#### *Bridwell Institute for Economic Freedom at SMU*

The mission of the Bridwell Institute is to foster the scholarly study and intellectual discussion of the nature, consequences, and causes of economic freedom in our local, state, national, and international communities. In support of this mission, the Bridwell Institute seeks to: influence the academic debate by generating and sponsoring high-quality, peer-reviewed scholarship related to the nature, consequences, and causes of economic freedom; become a leader on the SMU campus by engaging students about the ideas of economic freedom through reading groups and related programs; elevate and enliven the discussion and debate about economic freedom in the wider Dallas-Fort Worth community; and encourage teaching about free enterprise and its benefits in schools in Texas and beyond through our economic education programs.

Dallas, Texas • [www.smu.edu/cox/Centers-and-Institutes/Bridwell-Institute](http://www.smu.edu/cox/Centers-and-Institutes/Bridwell-Institute)

#### *Texas Public Policy Foundation*

The Texas Public Policy Foundation is a non-profit, non-partisan research institute. The Foundation's mission is to promote and defend liberty, personal responsibility, and free enterprise in Texas and the nation by educating and affecting policy makers and the Texas public-policy debate with academically sound research and outreach.

Austin, Texas • [www.texaspolicy.com](http://www.texaspolicy.com)

#### **Utah** *Libertas Institute*

Libertas Institute envisions a legal system that protects each person's pursuit of happiness not just in word, but in deed. A society governed by such a system will embrace personal responsibility, use persuasion rather than force to achieve important goals, and understand the importance of free markets, property rights, personal freedom, and equal justice.

Lehi, Utah • [libertas.org](http://libertas.org)

#### **Virginia** *Virginia Institute for Public Policy*

The Virginia Institute for Public Policy is an independent, non-partisan, education and research organization committed to the goals of individual opportunity and economic growth. Through research, policy recommendations, and symposia, the Institute works ahead of the political process to lay the intellectual foundation for a society dedicated to individual liberty, free enterprise, private property, the rule of law, and constitutionally limited government.

Abingdon, Virginia • [virginiainstitute.org](http://virginiainstitute.org)



**Washington**     *Washington Policy Center*

The Washington Policy Center is an independent, non-profit think tank that promotes sound public policy based on free-market solutions.

Seattle, Washington • [www.washingtonpolicy.org](http://www.washingtonpolicy.org)

**West Virginia**     *Public Policy Foundation of West Virginia*

The Public Policy Foundation of West Virginia is a non-profit research and education organization that conducts scholarly research and analysis of state and local issues. The Foundation's mission is to advance sound policies in West Virginia based on the principles of free enterprise, individual liberty, limited government, and traditional American values.

Wheeling, West Virginia

*Cardinal Institute*

The Cardinal Institute for West Virginia Policy is a 501(c)(3) non-profit founded in 2014 dedicated to research, develop, and communicate effective conservative economic public policies for West Virginia.

Charleston, West Virginia • [www.cardinalinstitute.com](http://www.cardinalinstitute.com)

**Wisconsin**     *MacIver Institute*

The John K. MacIver Institute for Public Policy is a Wisconsin-based think tank that fights for free markets, individual freedom, personal responsibility, and limited government. Our namesake believed that ideas are the most powerful force in politics and our democracy. In John's honor, the MacIver Institute works every day to produce the next generation of ideas that will move Wisconsin and our country forward.

Madison, Wisconsin • [www.maciverinstitute.com](http://www.maciverinstitute.com)

**Wyoming**     *Wyoming Liberty Group*

Founded in 2008 with the purpose of inviting citizens to prepare for informed, active and confident involvement in local and state government, Wyoming Liberty Group provides a venue for understanding public issues in light of constitutional principles and governmental accountability. We believe in the values of individual dignity and personal liberty, and we encourage appreciation of our state constitution and the historical/cultural values that are the very source of our liberty.

Cheyenne, Wyoming • [wyliberty.org](http://wyliberty.org)



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