October 2021

OMERS & its Members

Ontario Economic Contribution 2020



The Canadian Centre for Economic Analysis

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Citation:

Stiff, D., Smetanin, P. OMERS and its Members: Ontario Economic Contribution 2020. Canadian Centre for Economic Analysis. October 2021.

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This report was commissioned by OMERS. No identifiable membership data was used in this analysis.



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Results at a Glance

Introduction

With more than half a million active and retired members, OMERS is one of the largest defined benefit pension plans in Canada. Members of OMERS include union and non-union employees of municipalities, school boards, transit systems, electrical utilities, emergency services, and children's aid societies across Ontario. The plan contributions of members and employers are invested around the world by OMERS to provide each member with a stable and secure source of retirement income. OMERS investments are found across the globe and in most communities in Ontario. All across the province, Ontarians benefit from the economic activity generated by these investments and by the activities of OMERS pension recipients.

Objectives and Approach

This study quantifies and describes the 2020 economic contribution of OMERS activities to Ontario, including regional breakdowns. These contributions include all the economic activity generated from the following sources:

- 1. OMERS members spending their retirement benefits payments in Ontario.
- **2.** OMERS operations and investments in Ontario, including salaries and wages to employees residing in Ontario.

These economic activities generate demand for labour and subsequent spending, which ripples through the economy. Throughout the report, economic contributions are grouped by the source of OMERS-driven economic activity. "Contribution from pension spending" includes all economic activity supported by OMERS members when they spend their retirement benefits payments, and "contribution from operations and investments" includes both the economic activity driven by OMERS investments in Ontario, adjusted for the share of ownership by OMERS and its operations.

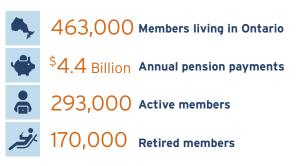
Using the long-term growth trend of the economy as a baseline for 2020, OMERS economic contributions are reported in terms of Gross Domestic Product (GDP), jobs and government revenue supported in Ontario and regionally. The COVID-19 pandemic's impact on economic relationships and metrics in 2020 were significant. The role of stable and continued pension payments throughout this period are considered in addition to the expected 2020 economic contributions that are reported.

The next two pages provide some of the key results of the analysis performed. Thereafter, the total economic contribution, its sources and regional results are provided.

Ontario Economic Activity Supported By OMERS

Members

There are 463,000 members that live in Ontario of which 293,000 are currently working (active members) and 170,000 are retired members. Total annual retirement payments amount to \$4.4 billion, a significant source of private retirement income in the province (9.6%). These payments have important direct, indirect, and induced contributions to the economy.



GDP Supported

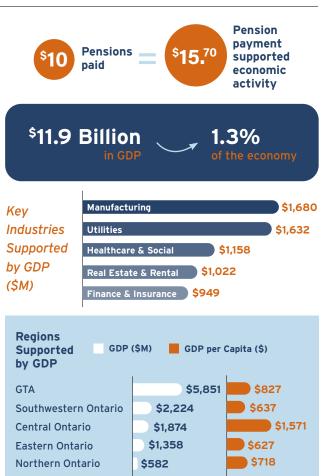
Economic activity supported by OMERS amounts to \$11.9 billion which represents about 1.3% of the economy.

\$6.9 billion of this is activity is due to the way the pension payments are spent, and the resulting indirect and induced economic activity. For every \$10 of pension payment, \$15.7 of economic activity is supported.

The balance of economic activity of \$5.0 billion is from OMERS operations and specific and unique OMERS investments in Ontario.

Economic activity is distributed across all industry sectors with key contributions to manufacturing, utilities, healthcare and social assistance, finance and insurance and retail trade.

OMERS retirement benefits were an important source of income for rural regions, comprising up to 20% of the population's private retirement income in some regions. This is an important contribution to rural economies of which the GDP benefit is more than 6.4% more than urban economies when considered on a per capita basis. Such a contribution is essential for the sustainability of many rural areas in Ontario.



Tax

Economic contribution generates about \$3.3* billion of taxation revenues for government of which \$1.8 billion is federal government and \$1.4 billion is provincial government taxation revenues.

*Provincial and federal amounts do not add to \$3.3 due to rounding.



Ontario Employment Supported By OMERS

OMERS activities support over 118,000 jobs with an aggregate wage income of \$5.8 billion. This is equivalent to one year of job growth ordinarily experienced by the province.

Total employment contribution is distributed across all industries. The industries that are the largest source of jobs include retail, health services, manufacturing, food service and accommodation, and finance and real estate.

Jobs supported by OMERS activities are held by individuals ranging in age and family composition. Of the people whose employment is supported, over 28,700 are filled by people under 30 years of age (24% of all jobs).



The employment supported by OMERS activities contributed to the wages of almost 106,500 households which included 55,500 households with children. The number of people that OMERS activities affect beyond the 463,000 active and retired members is vast, amounting to 273,000 additional Ontarians that are not OMERS members.

106,500 Households 463,000 Members 736,000 Ontarians

118,000 Jobs supported

\$5.8 Billion In annual wages

Ontario Economic Capacity Supported by OMERS

OMERS operations and investments in Ontario make a substantial contribution to economic activity in the province. In 2020, OMERS investments were located in rural areas as well as major cities in sectors including health services, energy, transportation, technology and real estate. These investments were found in over 300 locations across Ontario and included physical assets such as office space, apartment buildings, warehouses, shopping malls, and utilities operated by companies partially or entirely owned by OMERS.



Total Economic Contribution & its Sources

OMERS contributed over \$11.9 billion to provincial GDP in 2020 through its activities in Ontario. This supported over 118,000 jobs and \$5.8 billion in wages for Ontarians, as well as nearly \$3.3 billion in combined federal and provincial government revenue through corporate, income and consumption taxes.

The impact of OMERS activities on Ontario's population is widespread. OMERS activities support the employment of many Ontarians, and this provides a benefit to the people with whom they share a household as well since OMERS-supported employment contributes to each household's total income. In total, there were almost 736,000 Ontarians who benefitted from OMERS activities in 2020, counting all those living in households with a person whose wage or retirement income is supported by OMERS.

The industries that received the largest GDP benefit from OMERS and its members activities in Ontario in 2020 included utilities, manufacturing, healthcare and real estate.

Sources of Total Economic Contribution

Pension spending: OMERS retirement benefits represented an important source of retirement income¹ in Ontario in 2020, accounting for 9.6% of all private retirement income in the province. Retired members of OMERS live all around Ontario and spend much of their retirement benefits payments in their local communities and surrounding areas. Through this pension spending alone, OMERS members supported over 77,900 jobs across the province (66% of the total contribution of OMERS) and contributed over \$6.9 billion to Ontario's GDP, which averages over \$15.7 of GDP for every \$10 of retirement benefits payments received in 2020.

Operations and investments: OMERS operations and investments in Ontario make a substantial contribution to economic activity in the province. In 2020, OMERS investments were located in rural areas as well as major cities in sectors including health services, energy, transportation, technology and real estate. These investments were found in over 300 locations across Ontario and included physical assets such as office space, apartment buildings, warehouses, shopping malls, and utilities operated by companies partially or entirely owned by OMERS.

Together, OMERS operations and its investments supported over 40,300 jobs in Ontario (34% of the total contribution of OMERS) and over \$5.0 billion in GDP. Beyond this economic contribution, OMERS investments in Ontario provided significant economic capacity to the province in 2020. The real estate properties provide space to enterprises and homes to Ontarians, including 5,300 homes, 10.4 million square feet of office properties, 8.1 million square feet of industrial properties and 7.2 million square feet of retail properties. In addition, OMERS energy investments powered Ontario businesses and distributed energy to residents. More specifically, Bruce Power supplied over 30% of the province's electricity. Through this **pension spending** alone, OMERS members supported over **77,900 jobs** across the province (66% of the total contribution of OMERS) and contributed over **\$6.9 billion to Ontario's GDP**

OMERS operations and its investments supported over **40,300** jobs in Ontario (34% of the total contribution of OMERS) and over **\$5.0 billion in GDP**

¹Private retirement income comprises all formal retirement savings vehicles utilized by Ontarians, including defined benefit and contribution plans, Tax-Free Savings Accounts (TFSA) and Registered Retirement Savings Plans (RRSP). It excludes public supports.



Regional Economic Contributions of OMERS

The size of the contribution of OMERS and the main industries benefitting from the contribution differ between regions depending on each region's economic base and on the type of OMERS investments that are present in each region. The following tables summarize the key contributions of OMERS in the Greater Toronto Area (GTA), Southwestern Ontario, Eastern Ontario, Central Ontario and Northern Ontario in 2020.² Each region is a grouping of census divisions, which are defined in Section 2.4 of the report.

Economic Contribution to Greater Toronto Area in 2020

178,000 OMERS members	121,000 active members and 57,000 retired members			
\$1.6 billion Retirement benefits paid	10.1% of total private retirement income			
57,000	\$2.85 billion in wage income			
Total jobs supported	67.6% by pension spending, 32.4% by operations and investments			
\$5.9 billion	59% by pension spending			
GDP supported	41% by operations and investments			

OMERS retirement benefits payments represented 10.1% of the GTA's private retirement income. Every \$10 of pension paid generated \$22.2 of GDP In 2020, being the most significant generator of GDP from pensions in all regions.

Economic Contribution to Southwestern Ontario in 2020

121,000 OMERS members	74,000 active members and 47,000 retired members
\$1.2 billion Retirement benefits paid	10.1% of total private retirement income
24,700	\$1.15 billion in wage income
Total jobs supported	67.8% by pension spending, 32.2% by operations and investments
\$2.2 billion	65% by pension spending
GDP supported	35% by operations and investments

OMERS retirement benefits payments made up 10.1% of Southwestern Ontario's private retirement income. This significant source of income supported the economic vitality of the region, as every \$10 of pension paid generated \$12.3 of GDP. Investments by OMERS in the region in the health, technology and transportation sectors supported 32.2% of the total employment contribution.

²Note that numbers in these summary charts and throughout the report have been rounded for clarity. Therefore, there may be slight discrepancies due to rounding between the reported totals and the sum of regional breakdowns.



Economic Contribution to Eastern Ontario in 2020

77,000 OMERS members	46,000 active members and 31,000 retired members 7.3% of total private retirement income			
\$0.8 billion Retirement benefits paid				
15,100 Total jobs supported	\$0.7 billion in wage income 79.4% by pension spending, 20.6% by operations and investments			
\$1.4 billion GDP supported	77% by pension spending 23% by operations and investments			

OMERS retirement benefits payments represented 7.3% of Eastern Ontario's private retirement income. In some Eastern Ontario communities, over 2% of the population receive OMERS retirement benefits payments, which is a significant source of income and helps sustain these smaller communities. On average, every \$10 of pension paid in Eastern Ontario generated \$13.9 of GDP. Recipients of OMERS retirement benefits payments supported a significant 79.4% of the jobs contributed to the region by OMERS.

Economic Contribution to Central Ontario in 2020

48,500 OMERS members	28,500 active members and 20,000 retired members
\$0.5 billion Retirement benefits paid	11.6% of total private retirement income
14,500	\$0.78 billion in wage income
Total jobs supported	39.4% by pension spending, 60.6% by operations and investments
\$1.9 billion	26% by pension spending
GDP supported	74% by operations and investments

OMERS retirement benefits represented 11.6% of Central Ontario's private retirement income. In almost 40% of the communities in Central Ontario, over 2% of the population received OMERS retirement benefits payments, which helps sustain these smaller communities. The region where OMERS makes the largest economic contribution from investments, particularly OMERS investments in the energy sector, supported 46% of the 14,480 jobs contributed to the region by OMERS. This contribution was in large part driven by Bruce Power, a power plant that generates over 30% of Ontario's energy.

Economic Contribution to Northern Ontario in 2020

38,000 OMERS members	23,000 active members and 15,000 retired members
\$0.4 billion Retirement benefits paid	10.4% of total private retirement income
7,000	\$0.31 billion in wage income
Total jobs supported	71% by pension spending, 29% by operations and investments
\$0.6 billion	73% by pension spending
GDP supported	27% by operations and investments

In 2020, 1.9% of the total population of Northern Ontario received OMERS retirement benefits, which made it the region with the largest number of OMERS retirement benefits recipients relative to its population. OMERS retirement benefits were therefore a significant source of income and provided a cushion against volatility in employment income, as every \$10 of pension paid generated \$12.0 of GDP, which is particularly important in smaller, rural communities. Recipients of OMERS retirement benefits payments supported 71.0% of the 7,000 jobs contributed to the region by OMERS.





1.0 Introduction

1.1 Background

In 2020, more than half a million people were members of OMERS, one of Canada's largest defined benefits pension plans. OMERS members help build communities through their work as union and non-union employees of municipalities, school boards, transit systems, electrical utilities, emergency services and children's aid societies across Ontario. Members' pension plan contributions, as well as the contributions made by the 1,000 participating employers, are invested by OMERS to provide members with a stable and secure retirement income. These funds are invested by OMERS in Ontario and around the globe to ensure diversity by both asset type and geography. In 2020, about 70% of all OMERS investments were made outside of Canada. OMERS investment portfolio includes real estate, infrastructure, private and public equity, and fixed income.

The economy of every community in Ontario is positively impacted by OMERS, whether through the work of active members, retired members' pension-related spending, or through the local investment activities that OMERS performs on its members' behalf.

1.2 Objective & Approach

The objective of this study is to quantify and describe the economic contribution that OMERS had in Ontario and at the regional level in 2020. Using the long-term growth trend of the economy as a baseline for 2020, economic contribution encompasses all economic activity that occurs through the income generated by OMERS and its members and the subsequent spending and investments made in Ontario's economy. These contributions are quantified in terms of economic metrics, including GDP, jobs, and federal and provincial government revenue supported. When the report refers to the number of people and households sharing in the economic contributions, it is important to keep in mind that these are statistical estimates of person and household equivalents. This means that a contribution that is partially split over many people or households will be added together to form one person or household equivalent. For example, if 10% of the incomes of 10 individual households are supported by OMERS, this makes one household equivalent.

1.2.1 Economic Contribution Explained

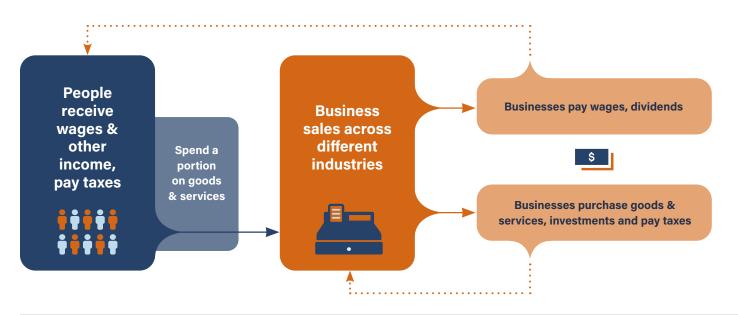
The economic contribution of a company's activities is the economic footprint of the company in the region. It includes the economic activity directly generated by operations and investment activities ("direct effects"), as well as the economic activity generated indirectly through business-to-business transactions with other companies that provide goods and services to the first company ("indirect effects"). Finally, it includes the contribution that people whose incomes are supported by these economic activities make to the regional economy through spending their wages ("induced effects").

More detailed information about the economics underpinning the methodology of this study can be found in the Appendices.

The interactions between people and businesses that enable economic activity to spread throughout the economy are presented in Figure 1. In general terms, the economy can be described as consisting of people, businesses and governments who interact with one another through financial transactions.

People	Receive wages from the organizations for which they work. They spend these wages with businesses on goods and services and pay part of their wage to their governments in taxes.				
Businesses	Pay wages and dividends to people, they purchase goods and services from other businesses and make investments, and they pay taxes to the government.				
Governments	Collect revenue through income, corporate and consumption taxes.				

Figure 1 Interactions between people and businesses in an economy



1.2.2 Sources of OMERS Economic Contribution

The primary sources of the total economic contribution of OMERS to Ontario are the following:



OMERS retirement benefits paid to members, which are spent by Ontarian households in their local communities and within the province.



OMERS operations including salaries and wages to OMERS employees residing in Ontario.

Private investments made by OMERS in companies, utilities, properties, etc. in Ontario that generate economic activity, which can take the form of investments, wages, goods and services purchased and intellectual property. Investment-driven contributions are adjusted for percentage ownership by OMERS.

Of all OMERS pension payments, this study focuses on the retirement benefits paid to OMERS members and follows the conservative assumption of not including death benefits, transfers to other plans and commuted value payments. Retirement benefits represented the majority of all pensions paid by OMERS in 2020, as shown in Table 1. In addition, other



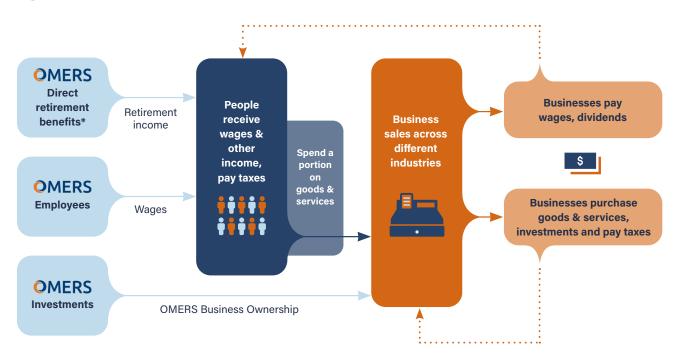
payment types are excluded because these payments are likely subject to a significant degree of reinvestment rather than being spent in the economy like regular retirement benefits.

Table 1	OMERS	pension	payments	by	type,	2020
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Payment Type	Sum of All Payments Made	Percentage of OMERS Total Payments
Retirement benefits	\$4.3B	85%
Transfers to other plans	\$65M	1%
Commuted value payments	\$543M	11%
Other benefits payments	\$177M	3%
Total Benefits Paid	\$5.1B	100%

Figure 2 shows how the sources of OMERS economic activity enter into the calculation of economic contribution. OMERS retirement benefits payments are part of the individual income that people allocate to goods, services and taxes, as are the wages of OMERS employees. OMERS investments enter into the calculation as business investments.





*This study only considers the defined retirement benefits paid by OMERS and therefore does not include transfers and other payments made by OMERS or non-retirement benefits payments.



In the following sections, the economic contribution of OMERS is reported and broken down as follows:

- Total Economic Contribution: All the economic activity in Ontario attributed to OMERS activities.
- **Contribution from Pension Spending:** The share of the total economic contribution that is attributed to OMERS members spending their retirement benefits payments.
- **Contribution from Operations and Investments:** The share of the total economic contribution that is attributed to the operations of OMERS and its investment activities. This can be further broken down to show how much is contributed by each type of investment, i.e. by the sectors of the investments.

Breaking results down in this way highlights the different sources of OMERS economic contribution in each region and enables comparisons.

1.2.3 Economic Capacity Provided by OMERS Investments

OMERS investments in Ontario provide economic capacity to the provincial economy in the form of energy, technology, infrastructure, homes, commercial space for firms and employees, as well as health and well-being. The use of these investments supports the regional economy by providing necessary infrastructure and services to households and businesses.

The use of these assets does not enter into the calculations of economic contribution by OMERS since any contribution to the economy originates from the businesses and households that use these assets. The capacity provided by OMERS investments in 2020 is highlighted in qualitative terms throughout the report.





2.0 Findings of the Contribution Analysis

2.1 **Provincial Overview**

2.1.1 OMERS Members in Ontario

In 2020, there were over 463,000 OMERS members that live in Ontario⁴, of which 293,000 were employed, active members and 170,000 received OMERS retirement benefits. This makes 1.7 active members per member who received retirement benefits.

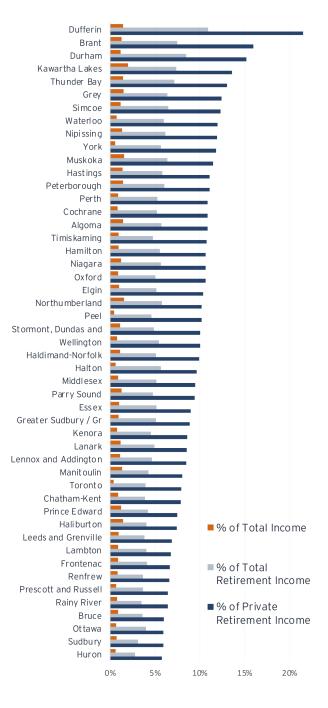
In Ontario, OMERS retirement benefits represent an important source of retirement income. In 2020, they accounted for 9.6% of residents' private retirement income, which comprises all formal retirement savings vehicles utilized by Ontarians, including defined benefit and contribution plans, Tax-Free Savings Accounts and Registered Retirement Savings Plans. OMERS retirement benefits also accounted for 5.2% of total retirement income, which includes public supports such as the Canada Pension Plan, Old Age Security and the Guaranteed Income Supplement, as well as all private retirement income.

The importance of OMERS retirement benefits as a source of retirement income at the regional level is shown in Figure 3. In many smaller communities outside of the Greater Toronto Area, OMERS retirement benefits were an important source of income for the retired population, comprising anywhere between 5% and 20% of the population's private retirement income in 2020. In communities where the median population age is higher, OMERS pensions can be particularly important to the local economy. In some communities, including Kawartha Lakes, Grey County, Northumberland and Thunder Bay, 2% or more of the population received OMERS pensions.

This stable, guaranteed income provides a cushion against volatility in employment income in smaller communities and rural regions. Recipients of OMERS retirement benefits living in Ontario spend this income in their local communities and the surrounding areas, which supports employment, GDP and federal and provincial government revenue.



Figure 3 OMERS retirement benefits contributions to local incomes, 2020



⁴ OMERS has more than 500,000 members. Of those, approximately 463,000 live in Ontario.

2.1.2 Investments

To provide members with stable and secure retirement income, the OMERS portfolio of global investments is diversified by geography and type of asset. In addition to providing stable returns, investments in Ontario support jobs and build capacity for the economy of Ontario.

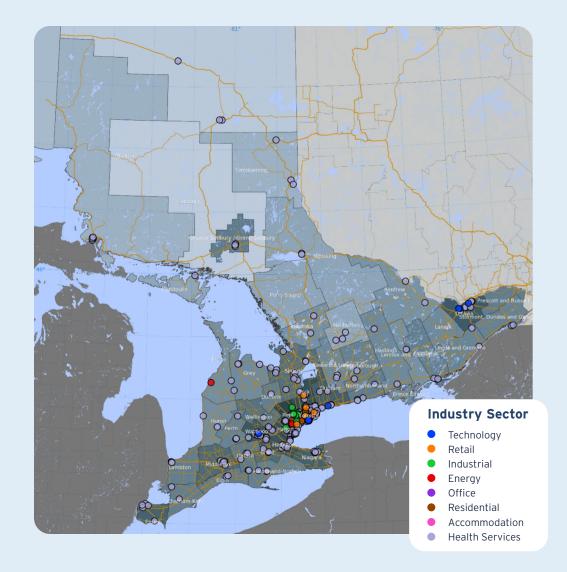


Figure 4 Distribution of OMERS investments in the south of Ontario, 2020

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In 2020, OMERS investments in Ontario were in the energy, health, financial, technology, infrastructure, and real estate sectors. OMERS investments in the technology sector supported Ontario's thriving technology ecosystem. OMERS real estate investments includes office, retail, industrial, residential and hotel properties. OMERS investments can be found across Ontario. Figure 4 and Figure 5 map the locations of each OMERS investment (fully or partially owned) by type in 2020.

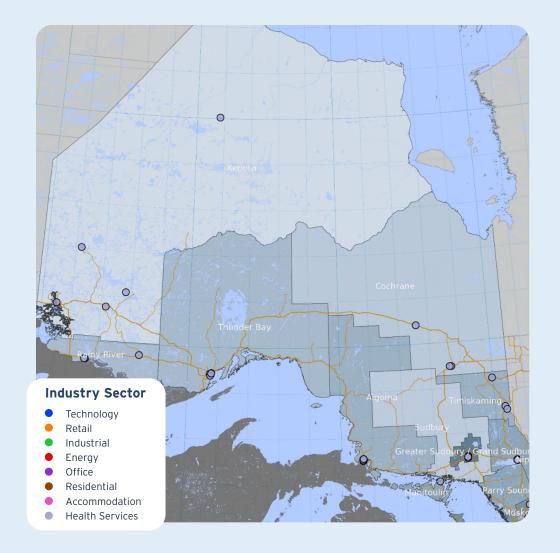


Figure 5 Distribution of OMERS investments in the north of Ontario, 2020



In 2020, OMERS health sector investments were located in communities across Ontario and were the most widespread in the province, as can be seen by the number of violet dots in Figure 4 and Figure 5. These were mostly providers of medical services such as laboratory tests, home health and outpatient rehabilitation. In 2020, OMERS health sector investments touched the health and well-being of a large number of people in both urban and rural centres who interact with the healthcare system. Investments in other sectors, including energy, transportation, technology, and real estate, were concentrated in urban areas, notably in the GTA, Ottawa, Waterloo and Windsor. A notable exception is Bruce Power, a nuclear power plant located in Bruce County, which supplies over 30% of the province's electricity.⁵

OMERS diversified real estate investments provide significant commercial and residential capacity to the cities in which they are located. Together, OMERS commercial real estate investments covered almost 26 million square feet. The accommodation and residential properties owned by OMERS contained 584 hotel rooms and nearly 5,300 homes, respectively.

Each of these investments, whether properties, utilities or private companies, had a significant economic impact on their communities. In addition to providing capacity, they generated local employment and economic activity through their demand for labour, goods and services. In total, OMERS and its investments directly employed about 18,100 people in Ontario in 2020 (after adjusting for the share by which each investment is owned by OMERS). This is equivalent to about half of the number of Toronto Public Service employees.

Through this **pension spending** alone, OMERS members supported over **77,900 jobs** across the province (66% of the total contribution of OMERS) and contributed over **\$6.9 billion to Ontario's GDP**



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2.2 OMERS Contribution to Ontario Employment

The economic contribution of OMERS to employment in Ontario occurs through members spending their retirement benefits payments in Ontario and through the economic activity generated by OMERS operations and local investments. This section reports the aggregate economic contributions of OMERS to employment in Ontario. These effects are further broken down to understand which demographic groups, regions and industries⁶ in Ontario are the main beneficiaries of the employment contribution. All results are reported for the year 2020.

2.2.1 Total Employment Contribution

OMERS activities contributed over 118,000 jobs to Ontario, with an associated \$5.8 billion in wages. In total, this contribution affected almost 736,000 people in Ontario, including each person living in a household with someone whose wage was supported by OMERS and each person who received OMERS retirement benefits payments. The number of people affected represents 5% of the population.

The jobs supported by OMERS were held by individuals ranging in age and family composition. Of the people whose employment was supported by OMERS, over 28,700 were young people under the age of 30 (24% of the total), although the employment contribution is similar across all age groups, as shown in Figure 6. The employment supported by OMERS contributed to the wages of over 55,500 households with children, as shown in Figure 7.

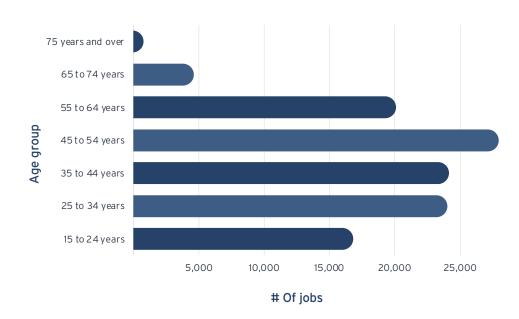
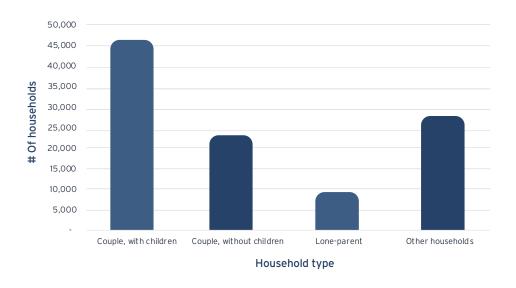


Figure 6 Employment supported by OMERS, 2020

⁶ The full list of Canadian industries used in this report can found in Table 5 in the Appendices.











The total employment contribution of OMERS in 2020 was distributed across all industries in Ontario. The industries which saw the largest benefit, and together accounted for half the total jobs, were:





OMERS activities supported employment in municipalities all across Ontario. The number of jobs supported in each region is shown in Table 2. Supported employment tends to correlate to the size of the local population, meaning that more jobs are supported in places where there are more residents and employed people overall. One significant exception is Bruce County in Central Ontario, which saw the largest employment impact relative to its population. In this community, 16% of all the jobs in the area were supported by OMERS activities. The primary source of this contribution is OMERS investment in Bruce Power, which supplies over 30% of Ontario's electricity.

Algoma	1,340	Middlesex	3,960
Brant	940	Muskoka	370
Bruce	5,000	Niagara	2,550
Chatham-Kent	680	Nipissing	580
Cochrane	610	Northumberland	910
Dufferin	500	Ottawa	7,340
Durham	6,010	Oxford	930
Elgin	600	Parry Sound	180
Essex	2,440	Peel	11,990
Frontenac	1,110	Perth	940
Greater Sudbury	1,480	Peterborough	1,240
Grey	1,440	Prescott and Russell	390
Haldimand-Norfolk	530	Prince Edward	110
Haliburton	180	Rainy River	180
Halton	4,980	Renfrew	560
Hamilton	3,810	Simcoe	3,510
Hastings	1,150	Stormont, Dundas and Glengarry	590
Huron	780	Sudbury	110
Kawartha Lakes	590	Thunder Bay	1,650
Kenora	560	Timiskaming	240
Lambton	840	Toronto	25,010
Lanark	520	Waterloo	5,730
Leeds and Grenville	830	Wellington	2,890
Lennox and Addington	340	York	8,970
Manitoulin	90	Total	118,000

Table 2 Number of jobs supported by OMERS across Ontario, 2020

The main source of the total contribution to employment by OMERS was pension spending, which supported 65.9% of the total jobs contributed by OMERS in Ontario in 2020. An overview of the breakdown by the source of the contribution is presented in Figure 9, and the following sections provide more detail on this breakdown. The sources of the contribution refer to whether the economic contribution is supported by OMERS retirement benefits payments (pension spending) or by its operations and investments.



Contributions from OMERS operations and investments are further broken down by the sectors of the OMERS investments that are the source of the contribution. Sectors include health, energy, real estate and building services, technology, financial services, industrial and transportation.⁷

Figure 9 Employment contributions by source sector, 2020

	Pension Spending		
G F E	A Retirement benefits payments	77,930 jobs	65.9%
C A B	Operations & Investments		
	B Health Sector	16,970 jobs	14.3%
	C Energy Sector	14,770 jobs	12.5%
	D Real Estate	3,310 jobs	2.8%
	E Technology Sector	2,230 jobs	1.9%
	F Financial Services Sector	2,360 jobs	2.0%
	G Other Sectors	730 jobs	0.6%
		Total 118,00	0 jobs

2.2.2 Employment Contribution from Pension Spending

In 2020, pension spending was the main source of OMERS total employment contribution to Ontario. Over 77,930 jobs (65.9% of the total contribution) were supported by OMERS members spending their retirement benefit payments. When OMERS members receive these payments, they will generally spend a large proportion on goods and services in their local communities. This demand for goods and services, in turn, supports regional business and industry and drives the contribution to employment.

Table 3 Top 5 industries supported by pension spending, 2020

Beneficiary Industry	Jobs Supported by OMERS pension spending	% of all jobs supported by OMERS pension spending
1 Retail Trade	13,460	17.3%
2 Manufacturing	10,570	13.6%
3 Accommodation & food	9,550	12.3%
4 Finance	5,440	7.0%
5 Healthcare	4,790	6.2%

Over half of the jobs contributed from pension spending (56.2%) were in the retail trade, manufacturing, hospitality, finance and healthcare industries (Table 3). These are industries that require many workers to provide the goods and services that OMERS spend much of their retirement benefits on. To illustrate: when an OMERS member spends a day shopping in their local community, the retirement benefits they spend on Ontario-made goods in local shops will help support the wages of local shopkeepers (retail trade) and factory workers (manufacturing). If they dine out, they support the wages of the servers and other restaurant staff (hospitality), as well as the incomes of local producers (agriculture and manufacturing) who supplied the ingredients.

⁷Note that we use the term 'sectors' here to refer to the investments that are the source of the economic contribution to distinguish from the industries in Ontario that benefit from the contributions.



2.2.3 Employment Contribution from OMERS Operations & Investments

OMERS operations and investments supported the remaining 40,360 (34.1%) of the total job contribution from OMERS activities in Ontario in 2020. Investments in the health and energy sectors were the main sources of this contribution and supported more than 17,000 jobs (14.3%) and 14,700 jobs (12.5%), respectively, in Ontario.

OMERS operations and investments contributed to employment by directly employing Ontarians. As reported in section 2.1.2, OMERS investments in all sectors directly employed a total of 18,100 people in Ontario in 2020, adjusting for the share of ownership by OMERS. They also contributed to employment through their demand for goods and services from other businesses, which supported employment in the industries to which OMERS investments are linked. Part of the wages of the employees whose jobs were supported by OMERS investments was spent in their communities, and this demand for goods and services supported additional jobs. The industries that were the main beneficiaries of OMERS operations and investments are healthcare, utilities and retail trade, as listed in Table 4.

Table 4 Top 5 industries supported by OMERS operations and investments, 2020

Jobs Supported by OMERS operations and investments	% Of all jobs supported by OMERS operations and investments
10,280	25.5%
5,630	14.0%
3,840	9.5%
3,020	7.5%
2,720	6.8%
	OMERS operations and investments 10,280 5,630 3,840 3,020

2.2.4 COVID-19 and Employment Contribution from OMERS

The COVID-19 pandemic had far-reaching economic consequences for Ontario in 2020, with the true financial impact of COVID-19 expected to take several years to determine. Historic declines in output, employment and hours worked resulting from the economic shutdowns during 2020 affected virtually all sectors of the economy. This confounds the analysis of OMERS economic contributions during 2020 as:

- Lower activity in Ontario reflected tighter restrictions on economic activity
- The number of active businesses has declined in most industrial sector
- Capital plans in many industries were severely impacted, creating uncertainty around the key drivers of business investment
- Emergency response programs were mitigating the impact of the pandemic on businesses
- Emergency support programs bolstered household incomes and savings

To mitigate against these confounding factors, OMERS economic contribution for 2020 has been evaluated using the long-term growth profile of the Ontario economy. This will allow for comparisons of the significance of OMERS economic contributions over time without the noise from the economic volatility caused by the COVID-19 pandemic.

Notwithstanding, what follows are some select statistics that reveal the importance of OMERS economic contribution to Ontario during a major economic shock such as the COVID-19 pandemic.



With many businesses closed, OMERS pension payments became more significant to the economy; the ratio of pension payments to employment income in Ontario increased by 7%. OMERS pension payments to Ontario retirees were the equivalent of 17% of the lost employment wages in 2020. The regular payments of pension payments helps provide a stable income stream to residents, which can help dampen shocks to the labour force.

In addition, with supply-side restrictions due to lockdowns, the savings rate for many Ontarians increased significantly, averaging almost 7 times the average of the previous 5 years. If the additional savings by OMERS retirees is spent in the years following the pandemic, it will support 9.3% of Ontario's annual job creation and provide significant support to the province's economic recovery. This support to the recovery is not uniform across the province, with over twice the support in Northern and Central Ontario compared to the GTA on a per capita basis.

With many businesses closed, OMERS pension payments became more significant to the economy; the ratio of pension payments to employment income in Ontario increased by 7%



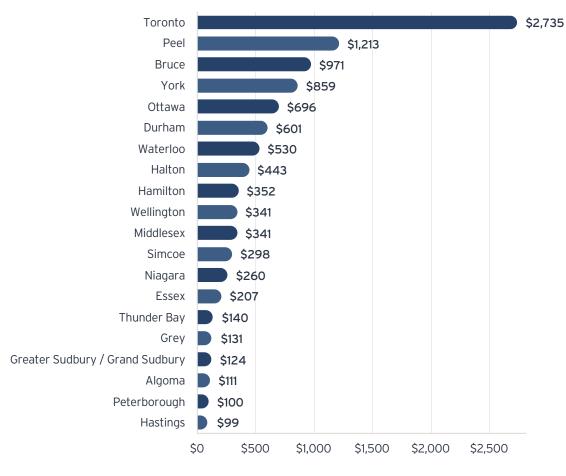
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2.3 OMERS Contribution to Ontario GDP

This section reports OMERS economic contribution to Ontario's GDP as well as to federal and provincial tax revenue. These effects are further broken down to understand which regions and industries are the main beneficiaries of this GDP contribution. All results are reported for the year 2020.

2.3.1 Total GDP Contribution

Through its members and investments, OMERS contributed over \$11.9 billion to Ontario's GDP in 2020. The 20 communities that saw the largest GDP contribution (in dollars) from OMERS activities are shown in Figure 10.





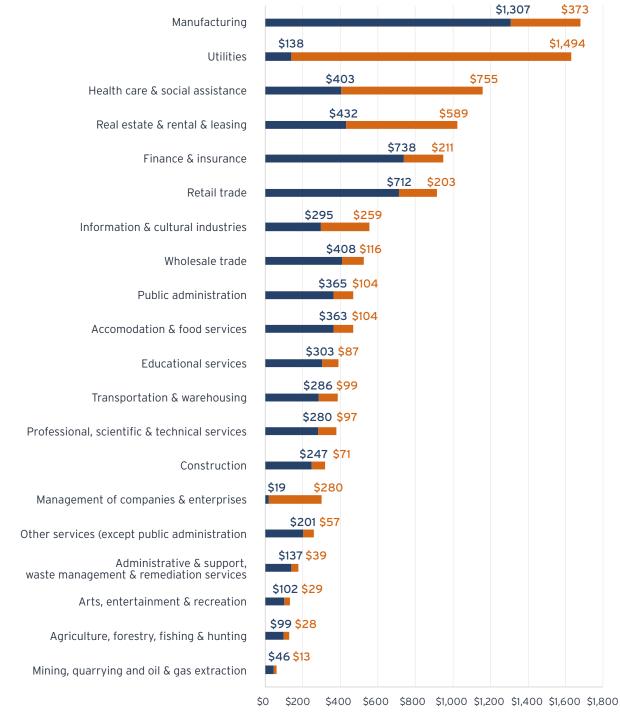
GDP (\$m)

Figure 11 presents the GDP contributions of OMERS activities by industry. Over \$3.3 billion of the GDP supported by OMERS was in the manufacturing and utilities industries combined. Outside these two industries, the healthcare, real estate and financial services industries were the main beneficiaries of the economic activity of OMERS.

Figure 11 GDP supported by OMERS by industry (\$M), 2020

Pension Spending

OMERS Investment & operations



Annual GDP (\$m)

2.3.2 GDP Contribution from Pension Spending

Pension spending supported 57.9% of the total GDP contribution from OMERS activities in 2020, amounting to \$6.8 billion. Every \$10 of OMERS retirement benefits payments (\$4.37 billion in total), therefore contributed \$15.7 to Ontario's GDP. The main industry that benefited from pension spending in Ontario was manufacturing. Manufacturing is a broad category that includes food and beverage products and other staples of households' day-to-day spending up to complex components for industrial uses, which helps explain its significance. OMERS members' pension spending alone supported \$1.3 billion in GDP in this industry. This provided much-needed support to an industry that has seen a persistent decline over the years in Ontario. After manufacturing, the finance and insurance industry and the retail trade industry saw the next largest benefit from OMERS pension spending, with a combined \$1.4 billion in GDP supported.

2.3.3 GDP Contribution from OMERS Operations & Investments

OMERS operations and investments are the sources of the remaining \$5.0 billion contribution to Ontario's GDP (42.1% of the total GDP contributed by OMERS). This includes all the value added to Ontario's economy by OMERS operations and investments, as well as the additional value added by other businesses through business-to-business transactions with OMERS and its investments in 2020. The main industries that benefitted from OMERS operations and investment activities in Ontario were utilities, with a \$1.5 billion contribution to GDP, healthcare (\$0.8 billion), and real estate and leasing (\$0.6 billion). These industries provide essential services for doing business in Ontario (electricity and commercial space, in particular) and also correspond to the sectors in which OMERS has made significant investments (energy and real estate).

2.3.4 OMERS Contribution to Government Revenue

The economic activity supported by OMERS generated federal and provincial government revenue through personal, corporate and consumption taxes. Income tax is collected on retirement benefits payments and the wages of people whose employment is supported by OMERS activities, while OMERS and its investments contribute to corporate tax revenue. The spending of OMERS retirement benefits and the income earned through OMERS-supported employment in Ontario also generates consumption tax revenue for the government.⁸

In 2020, the combined federal and provincial government revenue generated by OMERS activities amounted to nearly \$3.3 billion.⁹ Of this total, over \$1.8 billion was federal government revenue (55% of which came from income taxes), and over \$1.4 was provincial government revenue (39% from income taxes).

The main industries that benefitted from OMERS operations and investment activities in Ontario were utilities, with a \$1.5 billion contribution to GDP, healthcare (\$0.8 billion), and real estate and leasing (\$0.6 billion)

⁸ Details about the methodology employed to estimate the revenue from each type of tax are provided in the Appendices.

⁹ This analysis estimates government revenue from income, corporate and consumption tax which are collected by the provincial and federal governments. It does not include municipal government revenue.



2.4 Regional Importance of OMERS Economic Contribution

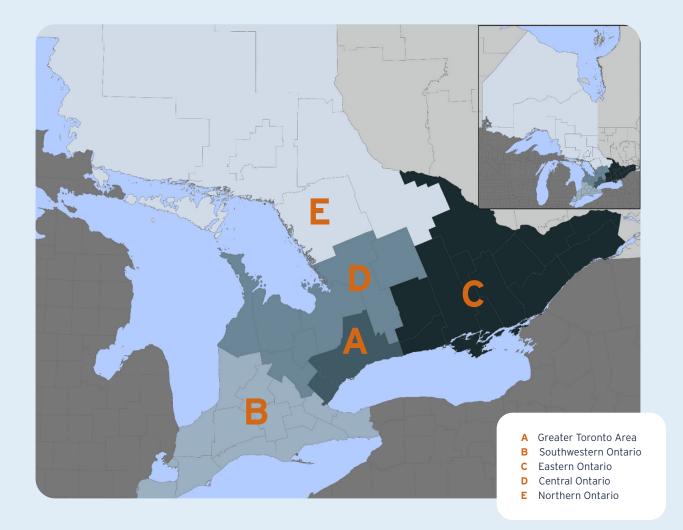
Ontario is made up of diverse regions with different industries and local socio-economic characteristics. This section will consider the economic contributions of OMERS activities at the regional level. In Figure 12, each region is shown in a different shade of blue as follows:

- A. Greater Toronto Area,
- B. Southwestern Ontario,
- C. Eastern Ontario,
- D. Central Ontario and
- E. Northern Ontario

OMERS members live in every one of these regions, and OMERS investments are throughout the province. As such, OMERS economic contributions in 2020 were measurable in every community.

The following sub-sections detail these contributions to the five major regions shown in figure 12.

Figure 12 Regional grouping of Ontario municipalities





2.4.1 Greater Toronto area

OMERS Membership

The Greater Toronto Area (GTA) is the most densely populated region of Canada and is the second-largest financial centre in North America. With a population of 7.1 million people, the GTA is home to just under half of all Ontarians. In total, there were about 121,100 active members of OMERS and 57,172 pension recipients in the area in 2020 (i.e. 2.1 active members per person receiving a pension).

OMERS investments

OMERS investments were found in 151 locations within the GTA in 2020, predominantly in healthcare, real estate and technology. These investments supported 18,500 jobs.

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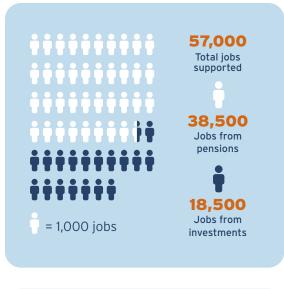
industrial

properties

(8.1 million

square feet)

15 residential properties with 5,300 homes 12 office properties (10.4 million square feet) 5 retail properties (7.2 million square feet)









Employment contribution

OMERS activities supported over 57,000 jobs within the region, which represented about one in 57 jobs in the GTA, with an aggregate wage income of \$2.85 billion. In total, OMERS activities affected over 197,300 people in the GTA, including each person living in a household with someone whose wage was supported by OMERS and everyone who received OMERS retirement benefits payments.

Of all jobs supported in the region, over 13,400 were filled by people under 30 years of age (23% of all jobs), while over 28,700 were held by members of households with children. Residents of the GTA whose employment was supported by OMERS worked primarily in the retail trade, manufacturing and healthcare industry, as shown in the Jobs supported by benefitting industry figure on the top left side of the following page. Note that manufacturing is a very broad category that includes food and beverage products and other staples of households' day-to-day spending, which helps explain its significance.

OMERS members supported regional business and industry and also contributed to local employment by spending their retirement benefits payments on goods and services in Ontario. Their pension spending drove 68% of OMERS total employment contribution in the GTA. The remaining 32% was driven by OMERS investments, especially those in the health and energy sectors. These investments supported the local economy, as their activity and operations require goods and services from other Ontario businesses, contributing to employment in related industries.

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Jobs supported by benefitting industry

Employment supported by source

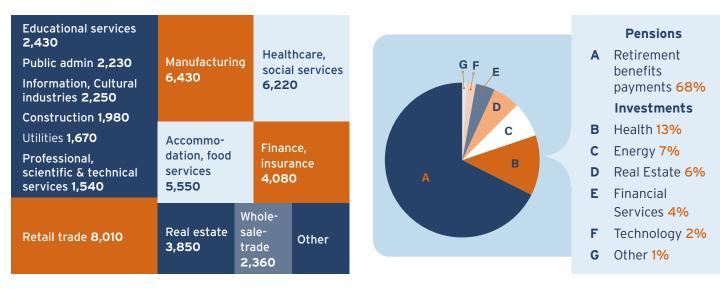
GDP Contribution

\$5.9 Billion

\$2.4 Billion

From

investments



Economic contribution

Across the GTA, OMERS supported over \$5.9 billion in GDP in 2020. Of this total, \$3.5 billion (60%) was generated by members spending their pensions, which means that every \$10 disbursed in pensions in the region contributed \$22.2 to GDP, on average.

Per person living in the region, OMERS contributed \$827 to regional GDP in 2020. This is a measure of the importance of the OMERS contribution to the region at the individual level since it accounts for the size of the population. At the sub-regional level, the OMERS per capita GDP contribution was most important for Toronto and Durham. The industries that were the main beneficiaries of this economic activity were the manufacturing, real estate, financial services and healthcare industries.

Annual GDP contribution by industry (\$ millions), GTA



Taxation

The wage income supported by OMERS, as well as the pension spending and corporate profits generated by OMERS investments, contributed to the provincial and federal governments' revenues through taxes. As a whole, the economic activity in the GTA supported by OMERS generated about \$1.6 billion in personal, corporate and consumption taxes in 2020. Of this total, \$0.9 billion was a contribution to federal government revenue (55% through income tax) and \$0.7 billion to provincial revenue (39% through income tax).



2.4.2 Southwestern Ontario

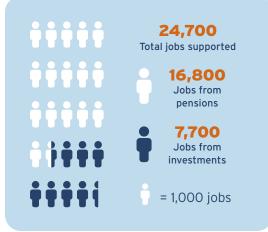
OMERS Membership

Southwestern Ontario includes the cities of Hamilton, Kitchener-Waterloo, St. Catharines, Niagara Falls, London and Windsor. It is home to 3.5 million people or about one-quarter of Ontarians. Important industries include manufacturing, agriculture, technology in Kitchener-Waterloo; and tourism in Niagara. In total, there were 74,168 active OMERS members and about 46,608 people receiving OMERS retirement benefits in 2020. For every person receiving retirement benefits in the region, there were 1.59 active members.

OMERS investments

OMERS investments were found in 68 locations, predominantly in healthcare, technology, and transportation, in 2020. These investments supported 7,970 jobs.









Employment contribution

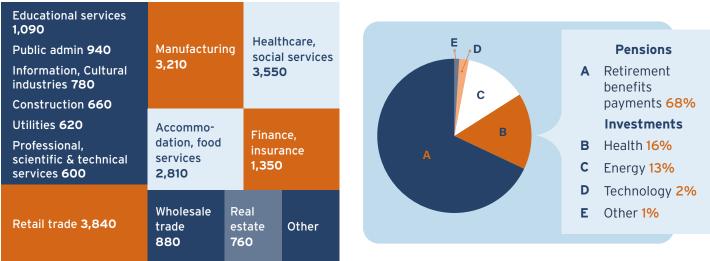
OMERS activities supported over 24,700 jobs within the region, which represented about one in every 62 jobs in Southwestern Ontario, with an aggregate wage income of \$1.1 billion. In total, OMERS activities affected almost 175,300 people in Southwestern Ontario, including each person living in a household with someone whose wage was supported by OMERS and everyone who received OMERS retirement benefits payments.

Of all jobs supported in the region, almost 6,500 were filled by people under 30 years of age (26.3% of all jobs), while nearly 11,300 were held by members of households with children. Residents of Southwestern Ontario whose employment was supported by OMERS worked primarily in the retail trade, healthcare and manufacturing industries, as shown in the jobs supported by benefitting industry figure on the top left side of the following page. Note that manufacturing is a very broad category that includes food and beverage products and other staples of households' day-to-day spending, which helps explain its significance.

OMERS members supported regional business and industry and also contributed to local employment by spending their pension income on goods and services in Ontario. Their pension spending drove 67.8% of OMERS total employment contribution in Southwestern Ontario. The remaining 32.2% was driven by OMERS investments, especially those in the health and energy sectors. These investments support the local economy, as their activities and operations require goods and services from other Ontario businesses, contributing to employment in related industries.

Jobs supported by benefitting industry

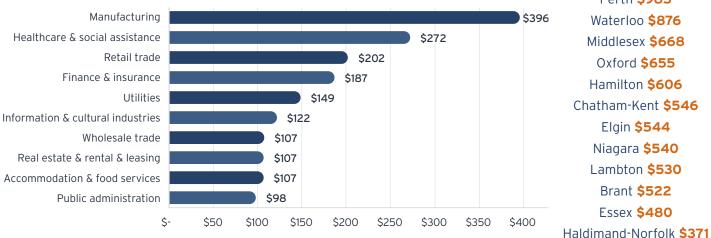
Employment supported by source



Economic contribution

Across Southwestern Ontario, OMERS supported nearly \$2.2 billion in GDP through its pension payments and investments in 2020. Of this total, about \$1.4 billion (65%) was generated by members spending their pensions, which means that every \$10 disbursed in pensions in the region contributed \$12.3 to GDP, on average. Per person living in the region, OMERS contributed \$637 to regional GDP in 2020. This is a measure of the importance of the OMERS contribution to the region at the individual level since it accounts for the size of the population. At the sub-regional level, the OMERS per capita GDP contribution was most important for the counties of Huron, Perth and Waterloo. The industries that were the main beneficiaries of this economic activity were the manufacturing, healthcare, retail trade and financial services industries.

Annual GDP contribution by industry (\$ millions), GTA



GDP Contribution \$2.2 Billion

From pensions \$0.8 Billion

From *investments*

Per capita GDP contribution

Huron **\$1,034** Perth **\$985** Waterloo \$876 Middlesex \$668 Oxford **\$655** Hamilton \$606 Chatham-Kent \$546 Elgin **\$544** Niagara **\$540** Lambton \$530 Brant **\$522** Essex **\$480**

Taxation

The wage income supported by OMERS, as well as the pension spending and corporate profits generated by OMERS investments, contributed to the provincial and federal governments' revenue through taxes. As a whole, the economic activity supported by OMERS generated about \$0.63 billion in personal, corporate and consumption taxes in Southwestern Ontario in 2020. Of this total, \$0.35 billion was a contribution to federal government revenue (56% through income tax) and \$0.28 billion to provincial revenue (40% through income tax).

2.4.3 Eastern Ontario

OMERS Membership

Eastern Ontario is bordered by the GTA, Lake Ontario and the St. Lawrence River, and Quebec. Larger cities include Ottawa, Cornwall, Kingston, Belleville and Peterborough. It is home to the nation's capital and the federal public service, and professional services and technology, tourism, and agriculture are important to its economy as well. There were 46,248 active OMERS members and 31,237 people receiving OMERS retirement benefits in 2020. For every person receiving retirement benefits in the region, there were 1.48 active members.

OMERS investments

OMERS investments were found in 34 locations within Eastern Ontario in healthcare and technology in 2020. These investments supported 3,100 jobs.

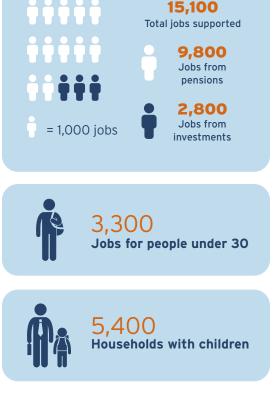


Employment contribution

OMERS activities supported almost 15,100 jobs within the region, which represented one in about 64 jobs in Eastern Ontario, with an aggregate wage income of \$0.7 billion. In total, OMERS activities affected 110,000 people in Eastern Ontario, including each person living in a household with someone whose wage was supported by OMERS and everyone who received OMERS retirement benefits payments.

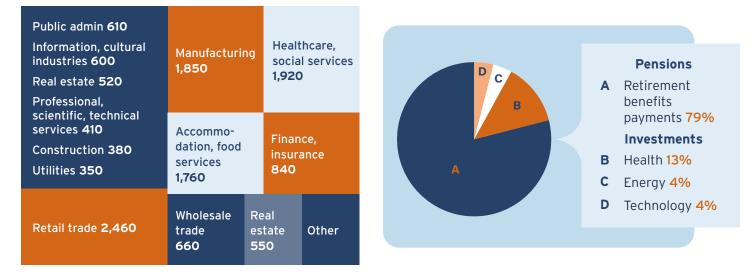
Of all jobs supported in the region, over 3,900 were filled by people under 30 years of age (26.1% of all jobs), while over 6,400 were members of households with children. Residents of Eastern Ontario whose employment was supported by OMERS worked primarily in the retail trade, healthcare and manufacturing industries, as shown in the jobs supported by benefitting industry figure on the top left side of the following page. Note that manufacturing is a very broad category that includes food and beverage products and other staples of households' day-to-day spending, which helps explain its significance.

OMERS members supported regional business and industry and also contributed to local employment by spending their pension income on goods and services in Ontario. Their pension spending drove 79.4% of OMERS total employment contribution in Eastern Ontario. The remaining 20.6% was driven by OMERS investments, especially in the health sector. These investments supported the local economy, as their activities and operations required goods and services from other Ontario businesses, contributing to employment in related industries.



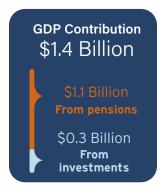
Jobs supported by benefitting industry

Employment supported by source



Economic contribution

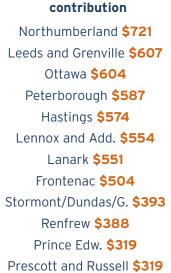
Across Eastern Ontario, OMERS supported \$1.4 billion in GDP through its pension payments and investments in 2020. Of this total, \$1.1 billion (75%) was generated by members spending their pensions, which means that every \$10 disbursed in pensions in the region contributed \$13.9 to GDP, on average. Per person living in the region, OMERS contributed \$627 to regional GDP in 2020. This is a measure of the importance of the OMERS contribution to the region at the individual level since it accounts for the size of the population. At the sub-regional level, OMERS per capita GDP contribution was most important for the counties of Northumberland, Leeds and Grenville and Ottawa. The industries that were the main beneficiaries of this economic activity were the manufacturing, healthcare, retail trade and finance industries.



Per capita GDP

Annual GDP contribution by industry (\$ millions), GTA





Taxation

As a whole, the economic activity supported by OMERS generated about \$0.38 billion in personal, corporate and consumption taxes in Eastern Ontario in 2020. Of this total, \$0.21 billion was a contribution to federal government revenue (56% through income tax) and \$0.17 billion to provincial revenue (40% through income tax).

2.4.4 Central Ontario

OMERS Membership

Central Ontario is bordered by the Bruce Peninsula and Georgian Bay, Wellington County, and the GTA. The area is mainly rural and includes the cities of Guelph and Barrie and tourist destinations such as Georgian Bay, Blue Mountain, and Muskoka. The population is about 1.2 million people.

There were 28,517 active OMERS members and 20,038 people receiving OMERS retirement benefits in 2020. For every person receiving retirement benefits, there are 1.42 active members. OMERS retirement benefits are an important source of retirement income for many communities in Central Ontario, including Kawartha Lakes and Grey County, where 1.7% of the population received OMERS retirement benefits in 2020. This guaranteed income provides a cushion against volatility in employment income.

Employment contribution

OMERS pension and investment activities supported over 14,480 jobs within the region, representing one in about 37

28,500 Active Members 20,000 Receive OMERS Retirement Benefits 11.69% Of private retirement income in the region 6.29% Of the region's total retirement income Meople affected 81,000

jobs in Central Ontario, with an aggregate wage income of \$0.78 billion. Central Ontario was the region with the largest employment contribution from OMERS relative to its population in 2020. This contribution was highest in Bruce County, the location of Bruce Power, where one in seven jobs was supported by OMERS, followed by Grey County, where it was one in 36 jobs. In total, OMERS activities affected almost 81,100 people in Central Ontario, including each person living in a household with someone whose wage was supported by OMERS and everyone who received OMERS retirement benefits payments.

Of all jobs supported in the region, almost 3,150 were filled by people under 30 years of age (21.7% of all jobs), while about 6,200 were held by members of households with children.

Central Ontario is the region in which there were the most jobs supported by OMERS for young people and households with children, relative to the population in 2020. This is particularly important, given that predominantly rural regions can often have difficulties retaining young people and growing families. Residents of Central Ontario whose employment was supported by OMERS worked primarily in the utilities, healthcare and retail trade industries, as shown in the jobs supported by benefitting industry figure on the top left side of the following page.

OMERS local investments were the main drivers of OMERS-supported employment in Central Ontario, particularly energy investments (due to Bruce Power). The activities and operations of these investments require goods and services from other Ontario businesses, which contributes to employment in related industries. Together these investments drove 60.6% of OMERS total employment contribution in Central Ontario. The remaining 39.4% was driven by OMERS members' pension spending. They supported regional business and industry and also contributed to local employment by spending their pension income on goods and services in Ontario.





Jobs supported by benefitting industry

Employment supported by source

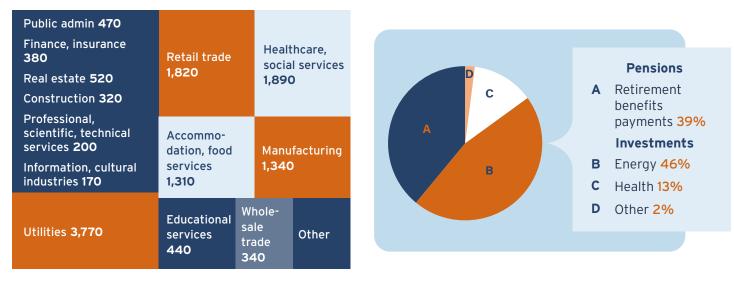
GDP Contribution

\$1.9 Billion

\$1.4 Billion

From

investments

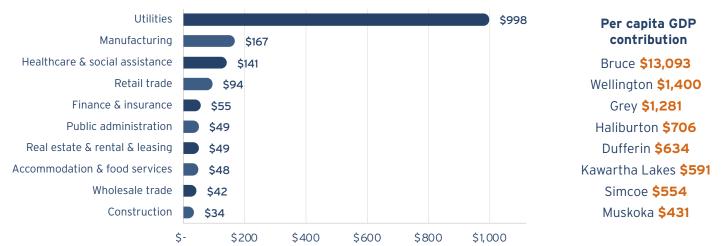


Economic contribution

Across Central Ontario, OMERS supported over \$1.87 billion in GDP through its investments and pension payments in 2020. Of this total, about \$1.39 billion (73.9%) was generated by OMERS local investments, and the rest was generated by members spending their pensions.

Per person living in the region, OMERS contributed \$1,571 to regional GDP in 2020. This is a measure of the importance of the OMERS contribution to the region at the individual level since it accounts for the size of the population. At the sub-regional level, the OMERS per capita GDP contribution differed significantly from county to county, with Bruce being the main beneficiary by a factor of ten due to the presence of Bruce Power. The utilities industry was the main beneficiary of this economic activity, with the manufacturing and healthcare industries as a distant second and third.

Annual GDP contribution by industry (\$ millions), GTA



Taxation

As a whole, the economic activity supported by OMERS generated about \$0.47 billion in personal, corporate and consumption taxes in Central Ontario in 2020. Of this total, \$0.27 million was a contribution to federal government revenue (51% through income tax) and \$0.2 million to provincial revenue (37% through income tax).



2.4.5 Northern Ontario

OMERS Membership

= 1,000 jobs

4,980

2,040

7.000

Total jobs supported

Jobs from pensions

Jobs from investments

1.760

under 30

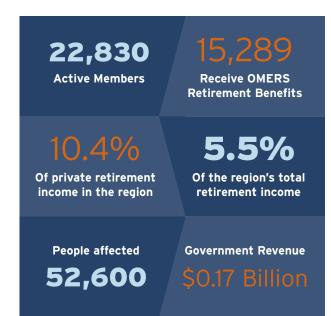
300

Households

with children

Jobs for people

Northern Ontario is the region of Ontario with the largest land area, encompassing all counties and regions north of Muskoka, and the smallest population, representing only 6% of Ontario's population. Larger cities include Sudbury and Thunder Bay. Natural resources, particularly mining and forestry, play a large role in the region's economy. There were 22,830 active OMERS members and about 15,289 people receiving OMERS retirement benefits in 2020. For every person receiving retirement benefits, there were 1.49 active members. Northern Ontario was the region with the largest number of pension recipients relative to its population. This source of guaranteed income provides a cushion against volatility in employment income, which is especially important in smaller, rural communities.



Employment contribution

OMERS activities supported over 7,000 jobs within the region, which represented about one in 49 jobs in Northern Ontario, with an aggregate wage income of \$0.31 billion. In total, OMERS activities affected over 52,600 people in Northern Ontario, including everyone living in a household with someone whose wage was supported by OMERS and those who received OMERS retirement benefits payments.

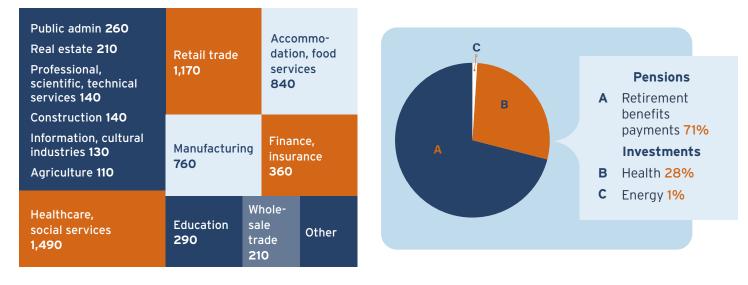
Of all jobs supported in the region, 1,760 were filled by people under 30 years of age (25.1% of all jobs), while 2,800 were held by members of households with children. Northern Ontario was one of the regions in which there were the most jobs supported by OMERS for young people and households with children relative to the population. This is particularly important, given that predominantly rural regions can often have difficulties retaining young people and growing families. Residents of Northern Ontario whose employment was supported by OMERS worked primarily in the healthcare, retail trade, hospitality and manufacturing industries, as shown in the jobs supported by benefitting industry figure on the top left side of the following page. Note that manufacturing is a very broad category that includes food and beverage products and other staples of households' day-to-day spending, which helps explain its significance.

OMERS members supported regional business and industry and also contributed to local employment by spending their pension income on goods and services in Ontario. Their pension spending drove 71.0% of OMERS total employment contribution in Northern Ontario in 2020. The remaining 29.0% was driven by OMERS investments, predominantly in the health sector. These investments supported the local economy, as their activities and operations require goods and services from other Ontario businesses, contributing to employment in related industries.



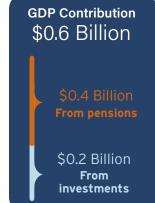
Jobs supported by benefitting industry

Employment supported by source



Economic contribution

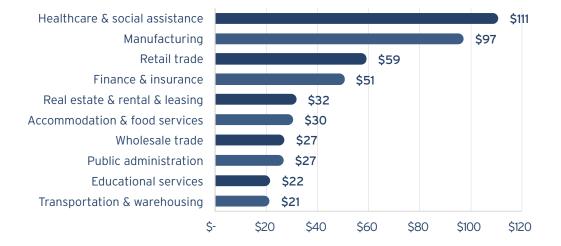
Across Northern Ontario, OMERS supported \$0.58 billion in GDP through its pension payments and investments in 2020. Of this total, \$0.4 billion (72.6%) was generated by members spending their pensions, which means that every \$10 disbursed in pensions in the region contributed \$12.0 to GDP, on average. Per person living in the region, OMERS contributed \$717 to regional GDP in 2020. This is a measure of the importance of the OMERS contribution to the region at the individual level since it accounts for the size of the population. At the sub-regional level, the OMERS per capita GDP contribution was most important in Algoma (which includes the city of Sault Ste. Marie) and Thunder Bay. The industries that were the main beneficiaries of this economic activity were the healthcare, manufacturing, retail trade and financial services industries.



Per capita GDP contribution



Annual GDP contribution by industry (\$ millions), GTA



Taxation

As a whole, the economic activity supported by OMERS generated over \$168 million in personal, corporate and consumption taxes in Northern Ontario in 2020.



3.0 Conclusions

Across Ontario, through its investments, operations and 170,000 retired members, OMERS supported over 118,000 jobs and over \$11.9 billion in provincial GDP in 2020. Through the economic activity, they supported by spending their pension income, retired OMERS members alone supported more than 77,930 jobs and \$6.8 billion in provincial GDP. OMERS also contributed to Ontario's prosperity through its Ontario-based investments found in over 300 locations. These investments generated an additional 40,300 jobs across the province and contributed \$5.0 billion to GDP.

The economic activity supported by OMERS generated revenue for the provincial and federal governments through personal, corporate and consumption taxes, which amounted to almost \$3.3 billion annually that helped pay for local public services.

The industries most supported by OMERS pension and investment activities were utilities and manufacturing, followed by healthcare, real estate, financial services and retail trade. The mix of industries supported by OMERS varies according to each region's economic base and the types of investments that are present, although retail trade, healthcare, manufacturing, and hospitality were among the five industries in which the most jobs were supported in every region.

At the regional level, GDP and employment contributions generally corresponded to the size of the regional population. For instance, about half of the GDP supported by OMERS was generated in the Greater Toronto Area, which is home to almost half of the provincial population. However, when taking into account the population size, OMERS was shown to contribute most significantly to less densely populated regions, namely Central and Northern Ontario. These two regions experienced the most jobs supported by OMERS for young people and households with children relative to their respective populations. Given that rural regions in Ontario tend to have difficulties retaining their younger population, this is an important source of support which helps to sustain the vitality of these communities.

The magnitude of these economic, employment and government revenue contributions highlight the significant and unique impact that OMERS activities have in the province. While OMERS investments in energy, health services, infrastructure, real estate and technology play a significant role in supporting employment and economic activity where they are located, retired OMERS members living all over the province have an even larger impact. Having spent their careers building their communities, this study shows that OMERS members continue to support them through their pensions in their retirement years.

Appendices

A. Methodology

A.1. Economic Contribution Analysis

Economic contributions arise from three main effects by economic convention:

Direct Effects

Include all economic activity directly attributable to the operations of OMERS and its investments, as well as the expenditures of OMERS retirement benefits by members. These include the direct spending of retirement benefits and OMERS employees' wages, as well as the value-added output of OMERS investments in Ontario.

Indirect Effects

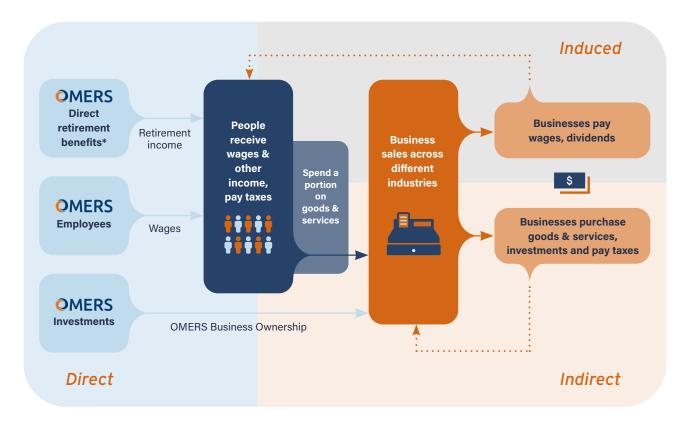
Include all the economic activity supported by business-to-business interactions within the supply chain. They include spending on the goods and services required to conduct business by OMERS and its investments and the business-to-business transactions in local communities where OMERS members spend their retirement benefits. The latter would include additional wages paid to salespeople working in shops where families spend their retirement benefits and the inputs required to produce and supply the additional goods bought by these families.

Induced Effects

Include all economic activity supported by the spending of wages earned by workers whose employment is supported by OMERS activity. For example employees of OMERS suppliers and employees of local businesses where retirement benefits are spent. Induced effects also include expenditures on increased capacity or the replacement of depreciating capital stock that result from reinvesting business profits. These purchases or activities can lead to further hiring, resulting in income and tax revenues.

The infographic in Figure 13 shows how the sources of OMERS economic activity enter into the calculation of economic contribution by the type of economic effect.





A.2. Computational Approach

Data provided by OMERS on pension payments¹⁰, operations and assets were used as inputs for this analysis. Where data was not available, e.g. the number of employees hired by certain OMERS assets, CANCEA generated estimates using Ontario-specific industry averages.

This analysis was conducted through an agent-based model developed by CANCEA and housed in its statistical analysis platform. This model simulates Ontario's economy by tracking how representative individuals, firms and governments interact with one another, given a set of characteristics and behavioural rules. Individuals are organized into households and work for firms. Individuals conduct financial transactions with firms, firms pay wages to individuals, and firms transact with one another. The government collects taxes from households and firms. The model is calibrated and regularly updated using primarily Statistics Canada data and other relevant publicly available data.

For this analysis, OMERS data was used to give certain individuals and firms in the model the characteristics of OMERS members who receive retirement benefits (e.g. location and income) and firms the characteristics of OMERS and its investments (e.g. location, industry, number of employees). The economic activity generated by these "agents" is then tracked to see how it affects employment and economic activity in the system as a whole, i.e. the whole of Ontario's economy. This activity generates direct, indirect and induced effects in the system, which are added up to obtain the total effect.

¹⁰ No identifiable membership data was used in this analysis.



To calculate **direct effects**, the economic value of the direct output of OMERS-owned assets is estimated using the number of employees by industry and standard industry multipliers provided by Statistics Canada (see Figure 14). Household expenditures by industry are estimated based on household spending patterns (see Figure 15) and total income, whether from OMERS retirement benefits payments or the wages of OMERS employees.

Indirect effects are the economic activity generated by OMERS, its retired members and its investments in other industries through business-to-business interactions. The inputs used by OMERS and OMERS-owned assets and those required to supply the goods and services purchased by retired OMERS members (including the labour required to supply these inputs) are calculated using Statistics Canada symmetric input/output and multiplier tables. Jobs, i.e. labour, are filled in geographical proximity to the source of the original expenditure (Figure 16) based on the geographical distribution of jobs by industry (Figure 17). Wages, which generate additional economic activity called **induced effects**, are calculated using industry averages (Figure 18). The resulting government revenue from income, consumption and corporate taxes are then estimated using current tax rates.

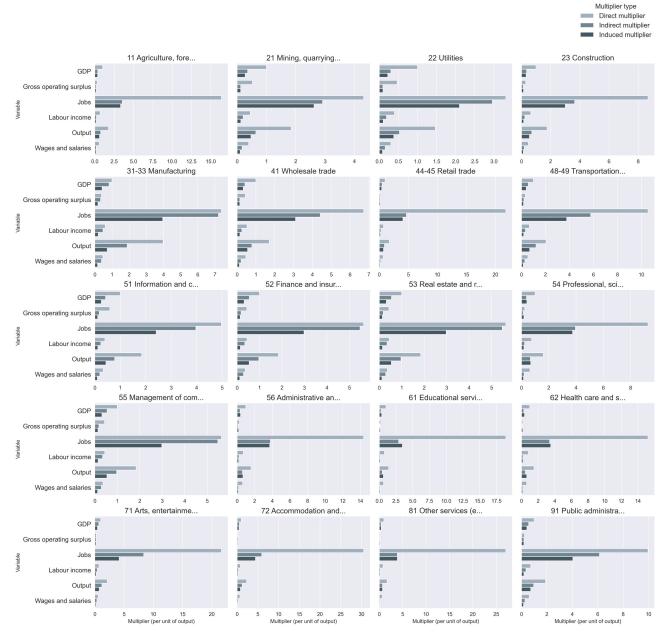


Figure 14 Ontario economic multiplier factors by industry

Figure 15 Household spending by industry (basic prices)

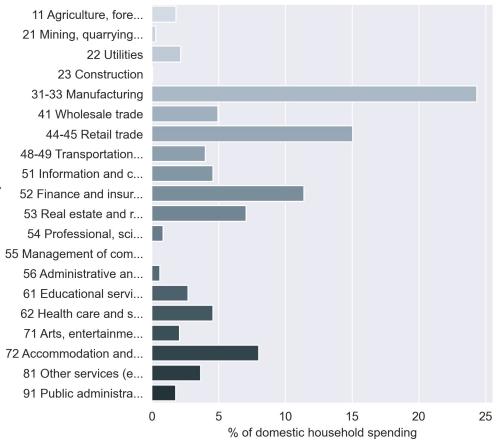




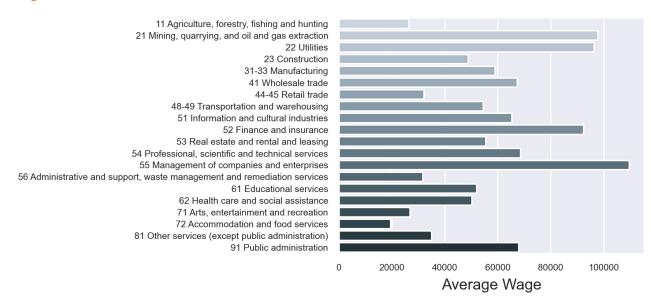
Figure 16 Regional relative proximity matrix

Algoma																						0.0 0.5 0.0 0		
																						0.0 0.0 0.0 0		
																						0.0 0.0 0.0 0		
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Frontenac Greater Sudbury / Grand Sudbury																								
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			_							_			_									0.0 0.0 0.0 0		
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Niagara	- 0.0 0.1	. 0.0 0.	.0 0.0	0.0 0.1 0	0.0 0.0	0.0 0.0 0	0.0 0.2 0	. 0 0.3 C	0.4 0.0 0	0.0 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.0 0	.0 1.0 0.	.0 0.0 0	0.0 0.0 0	.0 0.3	0.0 0.0	0.0 0.0 0.0	0 0.0 0.1 0	0.0 0.0 0.0 0	.0 0.6 0.	0.0 0.2
Nipissing	-0.0 0.0	0.0 0.	0.0 0.0	0.0 0.1 0	0.0 0.0	0.0 0.0 0	0.0 0.0 0	.4 0.0 0	0.0 0.1 0	0.0 0.2	0.0 0.0	0.0 0.0	0.0	0.0 0.0 0	.4 0.0 1.	0 0.1 0	0.0 0.0 0	.4 0.0	0.0 0.1	0.0 0.0	0 0.1 0.1 0	0.0 0.0 0.0 0	.0 0.0 0.	0.0 0.1
Northumberland	-0.0 0.0	0.0 0.	.0 0.0	0.0 0.4 0	0.0 0.0	0.1 0.0 0	0.0 0.0 0	.4 0.0 0	0.0 0.6 0	0.0 0.4	0.0 0.0	0.0 0.0	0.2	0.0 0.0	.0 0.1 0.	.0 1.0 0	0.0 0.0 0	.0 0.0	0.0 0.9	0.0 0.3 0.0	0 0.1 0.0 0	0.0 0.0 0.0 0	.0 0.1 0.	0.0 0.1
Ottawa	-0.0 0.0	0.0 0.	.0 0.0	0.0 0.0 0	0.0 0.0	0.7 0.0 0	0.0 0.0 0	.1 0.0 0	0.0 0.3 0	0.0 0.0	0.0 0.0	0.9 0.9	0.5	0.0 0.0 0	.0 0.0 0.	.0 0.1 1	.0 0.0 0	.0 0.0	0.0 0.1	0.7 0.4 0. 0	0 0.4 0.0 0	0.0 0.0 0.0	.0 0.0 0.	0.0 0.0
Oxford	-0.0 0.7	0.1 0.	.0 0.0	0.3 0.0 0	0.6 0.0	0.0 0.0 0	0.2 0.4 0	.0 0.2 0	0.3 0.0 0	0.5 0.0	0.0 0.0	0.0 0.0	0.0	0.0 0.6 0	.0 0.0 0.	.0 0.0 0	.0 1.0 0	.0 0.2	0.7 0.0	0.0 0.0 0.	0.0 0.0 0	0.0 0.0 0.0 0	.0 0.0 0.	3 0.6 0.0
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Rainy River																								
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	Algoma Brant	Bruce Chatham-Kent	Cochrane	Dufferin Durham	Elgin Essex	Frontenac Id Sudbury	Norf.	Hallour Lour Halton	Hamilton Hastings	Huron a Lakes	Kenora Lambton	Lanark renville	ding	Manitoulin Middlesex	Minissind	berla Derla	Oxford	rarry sound Peel	Perth Peterborough	ott and Russell Prince Edward Rainv River	Renfrew Simcoe	na Glengarry Sudbury Thunder Bay	Toronto	Wellington York
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Figure 17 Geographic distribution of jobs in Ontario by industry (thousands)

		0.0	0.0	0.5	2.4	4.0	0.0	C 4	2.2	0.0	10	0.0	1.0	0.0	2.0	4.0	0.4	7.4	4.2	2.0	2.0
5	ma –		0.9 0.1	0.5 0.5	3.4	4.8 13.1	0.9 3.6	6.4 8.8	2.2 4.1	0.6 1.0	1.2	0.6 1.0	1.6 3.3	0.0 0.1	2.6 3.5	4.0 5.1	8.4	1.4 1.8	4.2 5.0	2.0 3.3	3.9 2.9
	ant – uce –		0.1	5.0	5.6 3.4	2.3	0.9	3.9	1.0	0.4	1.9 0.7	0.5	1.3	0.1	0.9	1.9	8.8 3.9	0.6	2.3	1.6	1.4
Chatham-K			0.2	1.1	3.2	6.6	1.9	5.8	2.6	0.4	1.2	0.6	1.5	0.0	2.4	3.1	6.5	0.8	3.4	2.3	2.3
Cochra			4.2	0.6	2.5	2.2	0.8	4.9	1.9	0.5	0.9	0.4	1.3	0.0	1.1	3.0	5.9	0.4	2.5	1.8	2.5
	rin –		0.1	0.3	3.7	4.9	1.9	4.4	2.3	0.7	1.2	0.8	2.2	0.0	1.9	2.6	3.7	0.8	2.4	1.6	2.1
	am –		0.6	8.5	28.8	30.1	14.5	43.1	18.1	10.8	24.8	7.3	26.5	0.9	18.1	29.5	40.8	7.9	21.6	14.8	22.2
	gin –		0.1	0.3	3.8	8.2	1.5	4.8	3.0	0.6	1.3	0.6	1.7	0.0	2.2	2.7	6.0	0.7	2.8	2.3	1.9
Es	sex –	5.5	0.5	1.1	11.2	41.6	5.8	21.9	9.2	2.2	6.6	2.7	10.0	0.1	8.5	14.9	25.7	5.4	15.0	8.4	7.8
Fronte	nac –	0.7	0.1	0.5	5.2	3.4	1.6	9.3	2.1	1.2	2.4	1.5	4.0	0.0	3.7	10.6	13.4	1.7	6.7	3.3	9.8
Greater Sudbury / Grand Sudb	ury –	0.4	7.0	0.5	5.6	3.7	2.8	10.5	3.4	1.2	2.4	1.5	4.0	0.1	3.4	7.4	12.9	1.3	5.8	3.5	6.8
G	rey –	3.4	0.3	0.8	4.7	6.1	1.2	6.0	1.9	0.6	1.3	0.9	2.2	0.0	2.1	2.8	7.0	1.2	3.0	2.4	2.0
Haldimand-Nor			0.2	0.5	5.4	8.7	2.5	6.9	3.0	0.6	1.4	0.6	2.0	0.0	2.3	3.3	7.1	1.0	3.5	2.6	2.4
Halibur			0.0	0.1	1.2	0.3	0.2	1.2	0.4	0.1	0.2	0.2	0.4	0.0	0.5	0.4	0.8	0.2	0.7	0.3	0.4
	ton –		0.8	2.1	18.8	32.3	20.8	38.3	15.4	9.3	27.0	8.2	35.0	1.3	13.1	27.6	31.4	6.2	18.6	12.0	15.7
Hamil			0.3	1.4	21.3	36.2	12.2	34.7	12.5	6.0	12.1	5.3	17.2	0.4	14.6	26.5	40.3	5.1	19.1	12.8	13.8
Hasti	5		0.2	0.5	4.9	7.9	2.2	8.6	3.6	0.8	1.3	1.0	2.3	0.0	4.1	4.5	8.7	0.9	4.8	2.7	7.0
	ron –		0.5	0.5	2.8	3.5	1.3	3.3	1.3	0.4	1.0	0.3	1.0	0.0	1.0	1.8	3.4	0.5	1.9	1.4	1.0
Kawartha La			0.2	0.5	4.2	2.9	1.1	4.7	1.6	0.5	1.1	0.6	1.7	0.0	1.7	2.4	4.8	0.9	2.0	1.8	2.5
Ken Lamb	ora –		1.3 0.7	0.4 0.7	2.1 5.4	1.2 7.1	0.3 2.3	3.5 7.1	1.7 2.7	0.3 0.6	0.5 1.4	0.3 0.8	0.7 3.0	0.0 0.0	0.7 3.0	3.0 3.9	5.4 8.4	0.3 1.5	2.3 4.7	1.2 3.1	3.5 2.5
Land			0.7	0.3	3.9	2.8	1.1	4.7	1.4	0.8	0.9	0.6	2.3	0.0	1.4	2.4	4.6	0.7	2.2	1.8	3.4
Leeds and Grenv			0.1	0.3	4.4	4.6	1.7	6.5	2.4	0.7	1.2	0.8	2.4	0.0	2.5	3.2	7.0	1.1	3.5	2.2	4.1
Lennox and Adding			0.0	0.3	2.0	2.0	0.5	2.6	1.0	0.2	0.5	0.3	0.8	0.0	0.9	1.6	3.2	0.3	1.5	0.9	2.1
Manito			0.1	0.1	0.4	0.2	0.1	0.6	0.4	0.1	0.1	0.1	0.2	0.0	0.1	0.4	1.1	0.1	0.3	0.3	0.4
Middle			0.3	1.4	16.9	27.1	8.7	29.6	10.8	4.6	14.7	4.6	16.6	0.2	12.1	24.6	37.7	5.3	18.2	11.4	10.1
2 Musk	oka -	0.3	0.2	0.3	4.7	1.8	0.8	4.8	1.1	0.4	0.7	0.9	1.8	0.0	1.7	1.7	3.6	1.1	2.9	1.3	1.9
U Contraction of the second seco	ara –		0.5	1.5	16.5	22.2	8.4	29.2	10.2	3.0	7.4	3.7	11.2	0.2	12.1	17.7	28.4	9.6	25.7	10.7	11.6
Nipiss	ing -	0.5	1.0	0.4	2.6	2.0	0.8	5.5	2.0	0.4	1.0	0.6	1.7	0.0	1.6	3.7	6.5	0.6	3.0	1.7	3.5
Northumberla	and -	1.4	0.2	1.1	3.7	5.0	1.2	5.1	1.7	0.5	1.0	0.7	2.1	0.0	1.8	2.7	5.1	0.7	2.8	2.0	2.4
	nd – wa –		0.2 0.5	1.1 1.4	3.7 24.8	5.0 17.5	1.2 13.4	5.1 57.4	1.7 16.2	0.5 15.6	1.0 18.8	0.7 10.4	2.1 58.2	0.0 0.5	1.8 23.4	2.7 45.2	5.1 62.0	0.7 10.7	2.8 36.0		2.4 120.4
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Otta	wa – ord –	2.4 4.1	0.5	1.4	24.8 4.8 2.4	17.5 14.3 1.4	13.4 2.7 0.4	57.4 6.8 2.7	16.2 4.0 0.9	15.6 0.7 0.2	18.8 2.0 0.4	10.4 0.8 0.3	58.2 2.3 0.9	0.5 0.0 0.0	23.4 2.4 0.7	45.2 3.3 1.3	62.0 6.6 2.9	10.7 1.1 0.4	36.0 3.9 1.3	23.1 2.9 0.9	120.4 2.1 1.4
Otta Oxf Parry Sou F	wa – ord – Ind – eel –	2.4 4.1 0.3 2.4	0.5 0.2 0.2 0.9	1.4 0.3 0.2 3.5	24.8 4.8 2.4 50.0	17.5 14.3 1.4 102.9	13.4 2.7 0.4 47.7	57.4 6.8 2.7 94.9	16.2 4.0 0.9 80.0	15.6 0.7 0.2 20.0	18.8 2.0 0.4 54.5	10.4 0.8 0.3 17.8	58.2 2.3 0.9 69.3	0.5 0.0 0.0 2.1	23.4 2.4 0.7 44.6	45.2 3.3 1.3 48.6	62.0 6.6 2.9 68.2	10.7 1.1 0.4 10.3	36.0 3.9 1.3 46.2	23.1 2.9 0.9 31.3	120.4 2.1 1.4 27.7
Otta Oxf Parry Sou F Per	wa – ord – Ind – eel – rth –	2.4 4.1 0.3 2.4 4.3	0.5 0.2 0.2 0.9 0.1	1.4 0.3 0.2 3.5 0.2	24.8 4.8 2.4 50.0 3.9	17.5 14.3 1.4 102.9 8.8	13.4 2.7 0.4 47.7 2.1	57.4 6.8 2.7 94.9 4.8	16.2 4.0 0.9 80.0 1.8	15.6 0.7 0.2 20.0 0.5	18.8 2.0 0.4 54.5 1.8	10.4 0.8 0.3 17.8 0.5	58.2 2.3 0.9 69.3 1.9	0.5 0.0 0.0 2.1 0.0	23.4 2.4 0.7 44.6 1.5	45.2 3.3 1.3 48.6 2.4	62.0 6.6 2.9 68.2 4.9	10.7 1.1 0.4 10.3 1.3	36.0 3.9 1.3 46.2 2.6	23.1 2.9 0.9 31.3 2.0	120.4 2.1 1.4 27.7 1.2
Otta Oxf Parry Sou F Pe Peterborou Peterborou	wa – ord – ind – eel – rth – igh –	2.4 4.1 0.3 2.4 4.3 1.3	0.5 0.2 0.2 0.9 0.1 0.4	1.4 0.3 0.2 3.5 0.2 0.9	24.8 4.8 2.4 50.0 3.9 5.8	17.5 14.3 1.4 102.9 8.8 5.3	13.4 2.7 0.4 47.7 2.1 2.2	57.4 6.8 2.7 94.9 4.8 9.2	16.2 4.0 0.9 80.0 1.8 2.7	15.6 0.7 0.2 20.0 0.5 1.2	 18.8 2.0 0.4 54.5 1.8 1.8 	10.4 0.8 0.3 17.8 0.5 1.1	58.2 2.3 0.9 69.3 1.9 3.5	0.5 0.0 2.1 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8	45.2 3.3 1.3 48.6 2.4 6.3	62.0 6.6 2.9 68.2 4.9 10.3	10.7 1.1 0.4 10.3 1.3 1.7	36.0 3.9 1.3 46.2 2.6 5.0	23.1 2.9 0.9 31.3 2.0 3.3	120.4 2.1 1.4 27.7 1.2 4.1
Otta Oxf Parry Sou F Pe Peterborou Prescott and Rus	wa – Ind – Ind – Ind – Igh – Igh –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 	0.5 0.2 0.9 0.1 0.4 0.1	1.4 0.3 0.2 3.5 0.2 0.9 0.2	24.8 4.8 2.4 50.0 3.9 5.8 5.5	17.5 14.3 1.4 102.9 8.8 5.3 3.4	13.4 2.7 0.4 47.7 2.1 2.2 1.6	57.4 6.8 2.7 94.9 4.8 9.2 5.6	16.2 4.0 0.9 80.0 1.8 2.7 2.4	15.6 0.7 20.0 0.5 1.2 0.6	18.8 2.0 0.4 54.5 1.8 1.8 1.5	10.4 0.8 0.3 17.8 0.5 1.1 0.6	58.2 2.3 0.9 69.3 1.9 3.5 2.2	0.5 0.0 2.1 0.0 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1	45.2 3.3 1.3 48.6 2.4 6.3 4.3	62.0 6.6 2.9 68.2 4.9 10.3 5.9	10.7 1.1 0.4 10.3 1.3 1.7 0.7	36.0 3.9 1.3 46.2 2.6 5.0 2.5	23.1 2.9 0.9 31.3 2.0 3.3 2.4	120.4 2.1 1.4 27.7 1.2 4.1 7.6
Otta Oxf Parry Sou F Pe Peterborou Prescott and Rus Prince Edw	wa – ord – ind – eel – rth – igh – sell – ard –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 	0.5 0.2 0.9 0.1 0.4 0.1 0.0	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1	18.8 2.0 0.4 54.5 1.8 1.8 1.5 0.3	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7	0.5 0.0 2.1 0.0 0.0 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5	10.7 1.1 0.4 10.3 1.3 1.7 0.7	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0	23.1 2.9 0.9 31.3 2.0 3.3 2.4 0.4	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7
Otta Oxf Parry Sou F Peterborou Prescott and Rus Prince Edw Rainy Ri	wa – ord – ind – rth – igh – sell – ard –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1	 18.8 2.0 0.4 54.5 1.8 1.8 1.5 0.3 0.2 	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7	10.7 1.1 0.4 10.3 1.3 1.7 0.7 0.3 0.3	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7	23.1 2.9 0.9 31.3 2.0 3.3 2.4 0.4 0.4	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr	wa – ord – ind – rth – igh – sell – sell – ver –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6	13.4 2.7 47.7 2.1 2.2 1.6 0.3 0.1 0.9	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.7	 18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 	10.4 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7 6.8	10.7 1.1 0.4 10.3 1.3 1.7 0.7 0.3 0.1 0.1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfi Sime	wa – ord – eel – rth – ard – sell – ard – ew – coe –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 3.6 31.4	13.4 2.7 47.7 2.1 1.6 0.3 0.1 0.9 10.7	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0 35.1	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4 12.6	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.7 4.9	 18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6	62.0 6.6 2.9 68.2 10.3 5.9 1.5 1.7 6.8 31.8	10.7 1.1 0.4 10.3 1.7 0.7 0.3 0.1 0.6 7.5	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0	23.1 2.9 0.9 31.3 2.0 3.3 2.4 0.4 0.4 0.4 2.1 11.7	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 8.8 18.8
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfi Sime Stormont, Dundas and Glenga	wa – ord – ind – eel – rth – igh – sell – ard – ver – ew – coe – rry –	2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.1 0.9 2.3 0.5	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5	13.4 2.7 0.4 47.7 2.1 1.6 0.3 0.1 0.9 10.7 1.9	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4 12.6 3.7	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6	 18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 1.3 	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7 6.8 31.8 7.5	10.7 1.1 0.4 10.3 1.7 0.7 0.7 0.3 0.1 0.6 7.5 0.9	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1 11.7 2.4	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 8.8 18.8 3.8
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfi Sime Stormont, Dundas and Glenga Sudb	wa – ord – ind – eel – igh – igh – sell – sell – ver – ew – rry – ury –	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7 0.4 	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 3.6 31.4	13.4 2.7 47.7 2.1 1.6 0.3 0.1 0.9 10.7	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0 35.1	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4 12.6	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.7 4.9	 18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6	62.0 6.6 2.9 68.2 10.3 5.9 1.5 1.7 6.8 31.8	10.7 1.1 0.4 10.3 1.7 0.7 0.3 0.1 0.6 7.5	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0	23.1 2.9 0.9 31.3 2.0 3.3 2.4 0.4 0.4 0.4 2.1 11.7	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 8.8 18.8
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfi Sime Stormont, Dundas and Glenga	wa – ord – ind – eel – igh – igh – sell – ew – coe – rry – Bay –	2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7 0.4 1.6	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1	24.8 4.8 2.4 50.0 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1	13.4 2.7 0.4 47.7 2.1 1.6 0.3 0.1 0.9 10.7 1.9 0.2	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4 12.6 3.7 0.7	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.7 4.9 0.6 0.1	18.8 2.0 0.4 54.5 1.8 1.8 1.5 0.3 0.2 0.9 7.7 1.3 0.2	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 2.0 0.3	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 0.6	62.0 6.6 2.9 68.2 10.3 5.9 1.5 1.7 6.8 31.8 7.5 1.2	10.7 1.1 0.4 1.3 1.7 0.7 0.3 0.1 0.6 7.5 0.9 0.1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1 11.7 2.4 0.3	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 3.8 0.7
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Simu Stormont, Dundas and Glenga Sudb Thunder f Timiskam	wa – ord – ind – eel – igh – igh – sell – ew – coe – rry – Bay –	2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7 0.4 1.6 0.8	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5 1.7	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 0.5 1.4 12.6 3.7 0.7 3.9 0.7	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2	18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 1.3 0.2 1.3 0.2 1.6	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 3.6 0.6 6.7	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7 6.8 31.8 7.5 1.2 1.2.7 2.2	10.7 1.1 0.4 10.3 1.7 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1 11.7 2.4 0.3 3.2	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 3.8 0.7 6.1
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Simu Stormont, Dundas and Glenga Sudb Thunder f Timiskam	wa – Ind – eel – Ith – ggh – sell – sell – ard – ver – sew – rry – Say – Jay – ing – nto –	2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7 0.4 1.6 0.8 2.1	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5 1.7 1.8	1.4 0.3 0.2 3.5 0.2 0.1 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2	57.4 6.8 2.7 94.9 4.8 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8	16.2 4.0 0.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7	15.6 0.7 20.0 0.5 1.2 0.6 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2	18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 0.6 6.7 1.2	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7 6.8 31.8 7.5 1.2 1.2.7 2.2	10.7 1.1 0.4 10.3 1.7 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 0.7 6.1 0.9
Otta Oxf Parry Sou P Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro	wa – ord – ind – ind – ind – ing	 2.4 4.1 0.3 2.4 4.3 1.3 1.9 0.7 0.5 1.5 4.1 2.7 0.4 1.6 0.8 2.1 4.6 	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 115.5 53.7 24.6	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.0 10.7 1.9 0.2 1.8 0.2 1.8 0.2 1.3 0.2 1.3 0.2 1.3 0.2 1.3 0.2 1.3 0.4	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6	16.2 4.0 0.9 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 3.9 0.7 3.9 0.7 3.9 5.4	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1	18.8 2.0 0.4 54.5 1.8 1.5 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 134.3	10.4 0.8 0.3 17.8 0.5 0.1 0.6 0.3 0.1 0.6 0.3 0.1 0.1 0.1 0.1 0.1 0.1 0.1	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.3 3.6 0.4 194.1 25.2 9.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2	45.2 3.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 6.7 1.2 120.2 28.4 13.3	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 6.8 31.8 7.5 1.2 12.7 2.2 12.7 32.6 32.6 12.8	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 37.2 5.0 2.6	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 5.5 0.8 115.0 20.7 7.6	23.1 2.9 31.3 2.0 2.4 0.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 3.2 0.6 73.8 5.8	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 3.8 0.7 6.1 0.9 59.2
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ord – ind – ind – ind – ing	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 0.5 1.5 0.4 1.6 0.4 1.6 0.8 2.1 4.6 5.0	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 115.5 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.0 10.7 1.9 0.2 1.8 0.2 55.1 1.3.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 5.0 5.0 5.4.1	10.4 0.8 0.3 17.8 0.5 0.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2	45.2 3.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 0.6 6.7 1.2 120.2 28.4 13.3 50.7	 62.0 6.8 2.9 68.2 1.5 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5 	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 37.2 5.0 2.6 11.5	36.0 3.9 1.3 46.2 2.6 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1 2.4 0.3 3.2 0.6 7.3 8 12.5 5.8 27.1	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 0.7 6.1 0.9 59.2 11.8 6.0 24.9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 1.3.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 5.0 5.0	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 6.8 31.8 7.5 1.2 12.7 2.2 12.7 32.6 32.6 12.8	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 2.4 0.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 3.2 0.6 73.8 5.8	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 1.3.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 5.0 5.0	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.7 1 2.5 8 2.7 1 1 2.5 8 2.7 1 1 2 5 8 2 2,1 1 3 2 2 3 2 2 3 2 3 2 3 3 3 2 3 3 3 3	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 13.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 5.0 5.0	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.7 1 2.5 8 2.7 1 1 2.5 8 2.7 1 1 2 5 8 2 2,1 1 3 2 2 3 2 2 3 2 3 2 3 3 3 2 3 3 3 3	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 13.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.7 1 2.5 8 2.7 1 1 2.5 8 2.7 1 1 2 5 8 2 2,1 1 3 2 2 3 2 2 3 2 3 2 3 3 3 2 3 3 3 3	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 13.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.7 1 2.5 8 2.7 1 1 2.5 8 2.7 1 1 2 5 8 2 2,1 1 3 2 2 3 2 2 3 2 3 2 3 3 3 2 3 3 3 3	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 13.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.2 1.6 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1 I :: ;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.7 1 2.5 8 2.7 1 1 2.5 8 2.7 1 1 2 5 8 2 2,1 1 3 2 2 3 2 2 3 2 3 2 3 3 3 2 3 3 3 3	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 0.5 1.5 0.4 1.6 0.4 1.6 0.8 2.1 4.6 5.0	0.5 0.2 0.9 0.1 0.4 0.1 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 115.5 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 2.2 1.6 0.3 0.1 0.0 10.7 1.9 0.2 1.8 0.2 55.1 1.3.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 1.6 0.2 5.0 5.0	10.4 0.8 0.3 17.8 0.5 1.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.9 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2 1	45.2 3.3 1.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 6.7 1.2 120.2 28.4 13.3 50.7 4	62.0 6.6 2.9 68.2 4.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 160.7 32.6 12.8 55.5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.2 0.1 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1	36.0 3.9 1.3 46.2 2.6 5.0 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 2.1 11.7 2.4 0.3 3.2 0.6 7.3 8 2.5 8 5.8 27.1 1 ;	120,4 2,1 1,4 27,7 1,2 4,1 7,6 0,7 0,8 8,8 18,8 3,8 0,7 6,1 0,9 59,2 11,8 6,0 24,9
Otta Oxf Parry Sou Peterborou Prescott and Rus Prince Edw Rainy Ri Renfr Sim Stormont, Dundas and Glenga Sudb Thunder f Timiskam Toro Water Welling	wa – ind – ind – ind – ind – ingh	2.4 4.1 0.3 2.4 4.3 1.3 0.7 0.5 1.5 0.7 0.5 1.5 0.7 0.4 1.6 0.8 2.1 4.6 5.0 5.0 2.4 1.5	0.5 0.2 0.9 0.1 0.4 0.1 0.0 0.3 0.2 0.8 0.1 0.5 1.7 1.8 2.1 0.5 0.2 0.8	1.4 0.3 0.2 3.5 0.2 0.9 0.2 0.1 0.1 0.9 2.3 0.5 0.1 0.8 0.2 6.5 1.2 0.6 3.6	24.8 4.8 2.4 50.0 3.9 5.8 5.5 1.1 0.7 4.1 27.2 4.6 0.8 4.9 1.0 81.9 22.2 9.3 46.0	17.5 14.3 1.4 102.9 8.8 5.3 3.4 0.8 0.5 3.6 31.4 5.5 1.1 4.0 1.1 4.0 1.1 53.7 24.6 58.8	13.4 2.7 0.4 47.7 2.1 1.6 0.3 0.1 0.9 10.7 1.9 0.2 1.8 0.2 55.1 1.3.9 6.2 34.1	57.4 6.8 2.7 94.9 9.2 5.6 1.4 1.1 6.0 35.1 7.3 1.1 8.6 1.8 153.3 35.7 13.6 72.6	16.2 4.0 9.9 80.0 1.8 2.7 2.4 0.5 1.4 12.6 3.7 0.7 3.9 0.7 64.3 13.9 5.4 23.3	15.6 0.7 0.2 20.0 0.5 1.2 0.6 0.1 0.1 0.1 0.7 4.9 0.6 0.1 1.4 0.2 67.2 9.3 2.1 18.2	18.8 2.0 0.4 54.5 1.8 1.8 0.3 0.2 0.9 7.7 1.3 0.2 1.6 0.2 1.6 0.2 5.0 5.0 5.4.1	10.4 0.8 0.3 17.8 0.5 0.1 0.6 0.3 0.1 0.6 5.5 0.8 0.1 0.1 44.7 5.5 2.1 20.3	58.2 2.3 0.9 69.3 1.9 3.5 2.2 0.7 0.3 3.5 14.7 2.0 0.3 3.6 0.4 194.1 25.2 9.1 72.1 I :: ;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	0.5 0.0 2.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	23.4 2.4 0.7 44.6 1.5 3.8 2.1 0.7 0.3 2.1 14.1 2.4 0.2 2.1 0.4 83.2 13.3 5.1 25.2	45.2 3.3 48.6 2.4 6.3 4.3 0.7 0.9 3.1 18.6 3.6 0.6 6.7 1.2 120.2 28.4 13.3 50.7	62.0 6.6 2.9 68.2 4.9 10.3 5.9 1.5 1.7 6.8 31.8 7.5 1.2 12.7 2.2 12.7 32.6 12.8 32.6 12.8 5.5 5	10.7 1.1 0.4 10.3 1.3 0.7 0.3 0.1 0.6 7.5 0.9 0.1 1.2 0.1 37.2 5.0 2.6 11.5	36.0 3.9 1.3 46.2 2.6 2.5 1.0 0.7 3.2 20.0 3.4 0.8 5.5 0.8 115.0 20.7 7.6 35.1	23.1 2.9 31.3 2.0 3.3 2.4 0.4 0.4 2.1 2.4 0.3 3.2 0.6 7.3 8 12.5 5.8 27.1	120.4 2.1 1.4 27.7 1.2 4.1 7.6 0.7 0.8 8.8 18.8 3.8 0.7 6.1 0.9 59.2 11.8 6.0 24.9

Figure 18 Average wage in Ontario by industry



B. List of industries

This report follows the North American Industry Classification System (NAICS). Table 5 below lists all industries by full name and NAICS code.

Table 5 Full industry list

NAICS Code	Industry	NAICS Code	Industry
11	Agriculture, forestry, fishing & hunting	54	Professional, scientific &
21	Mining, quarrying, and oil $\&$		technical services
	gas extraction	55	Management of companies
22	Utilities		& enterprises
23	Construction	56	Administrative and support, waste
31-33	Manufacturing		management & remediation services
41	Wholesale trade	61	Educational services
44-45	Retail trade	62	Healthcare and social assistance
		71	Arts, entertainment and recreation
48-49	Transportation and warehousing	72	Accommodation and food services
51	Information and cultural industries	12	
52	Finance and insurance	81	Other services (except public administration)
53	Real estate and rental and leasing	91	Public administration



C. Data sources

OMERS provided the data required for this analysis, including:

- Detailed pension payment data by location
- A detailed list of assets including estimated market value, and number of employees (where available)

• Average wages and salaries of OMERS employees and employees of some investments, where available Note that no identifiable membership data was used in this analysis.

Statistics Canada CANSIM tables used in this analysis include:

- **11-10-0012** Distribution of income by census type
- 11-10-0019 Economic dependency profile of census families by family type and source of income
- 11-10-0033 Economic dependency profile by income and sex
- 11-10-0223 Household spending by income quintile,
- 11-10-0224 Household spending by household type,
- 17-10-0139 Population estimates, July 1, by census division, 2016 boundaries
- 36-10-0001 Symmetric input-output tables, detail level
- **36-10-0013** Input-output multipliers, summary level
- 36-10-0084 Symmetric input-output tables, summary level
- **36-10-0113** Input-output multipliers, provincial and territorial, summary level
- 36-10-0221 Gross domestic product, income-based, provincial and territorial, annual
- 36-10-0222 Gross domestic product, expenditure-based, provincial and territorial, annual
- 36-10-0438 Supply and use tables, summary level, provincial and territorial
- **36-10-0450** Revenue, expenditure and budgetary balance General governments, provincial and territorial economic account
- **36-10-0478** Supply and use tables, detail level, provincial and territorial (x 1,000)
- **36-10-0587** Distributions of household economic accounts, income, consumption and saving, by characteristic
- 36-10-0595 Input-output multipliers, provincial and territorial, detail level
- 98-400-X2016120 Income Sources and Taxes (34) and Income Statistics (5A) for the Population Aged 15 Years and Over in Private Households of Canada, Provinces and Territories, Census Divisions and Census Subdivisions, 2016 Census - 25% Sample Data
- 98-400-X2016149 Family MBM Low-income Status (5), Economic Family Structure (9), Family Size of Economic Family (5), Ages of Economic Family Members (18) and Number of Earners in the Economic Family (6) for Economic Families in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 Census 25% Sample Data
- **98-400-X2016227** Age of Primary Household Maintainer (9), Tenure (4), Structural Type of Dwelling (10) and Household Type Including Census Family Structure (9) for Private Households of Canada, Provinces and Territories, Census Divisions and Census Subdivisions, 2016 Census 25% Sample Data
- 98-400-X2016292 Industry North American Industry Classification System (NAICS) 2012 (427A), Class of Worker (7A), Labour Force Status (3), Age (13A) and Sex (3) for the Labour Force Aged 15 Years and Over in Private Households of Canada, Provinces and Territories and Census Divisions, 2016 Census - 25% Sample Data

- 98-400-X2016358 Industry North American Industry Classification System (NAICS) 2012 (425), Employment Income Statistics (3), Highest Certificate, Diploma or Degree (7), Immigrant Status and Period of Immigration (10), Work Activity During the Reference Year (4), Age (5A) and Sex (3) for the Population Aged 15 Years and Over Who Worked in 2015 and Reported Employment Income in 2015, in Private Households of Canada, Provinces and Territories and Census Metropolitan Areas, 2016 Census - 25% Sample Data
- **98-400-X2016390** Census Family Status and Household Living Arrangements (13), Household Type of Person (9), Age (12) and Sex (3) for the Population in Private Households of Canada, Provinces and Territories, Census Metropolitan Areas and Census Agglomerations, 2016 and 2011 Census 100% data
- Census Profile 2016 (Census Divisions)

