

# YUKON BUREAU OF STATISTICS

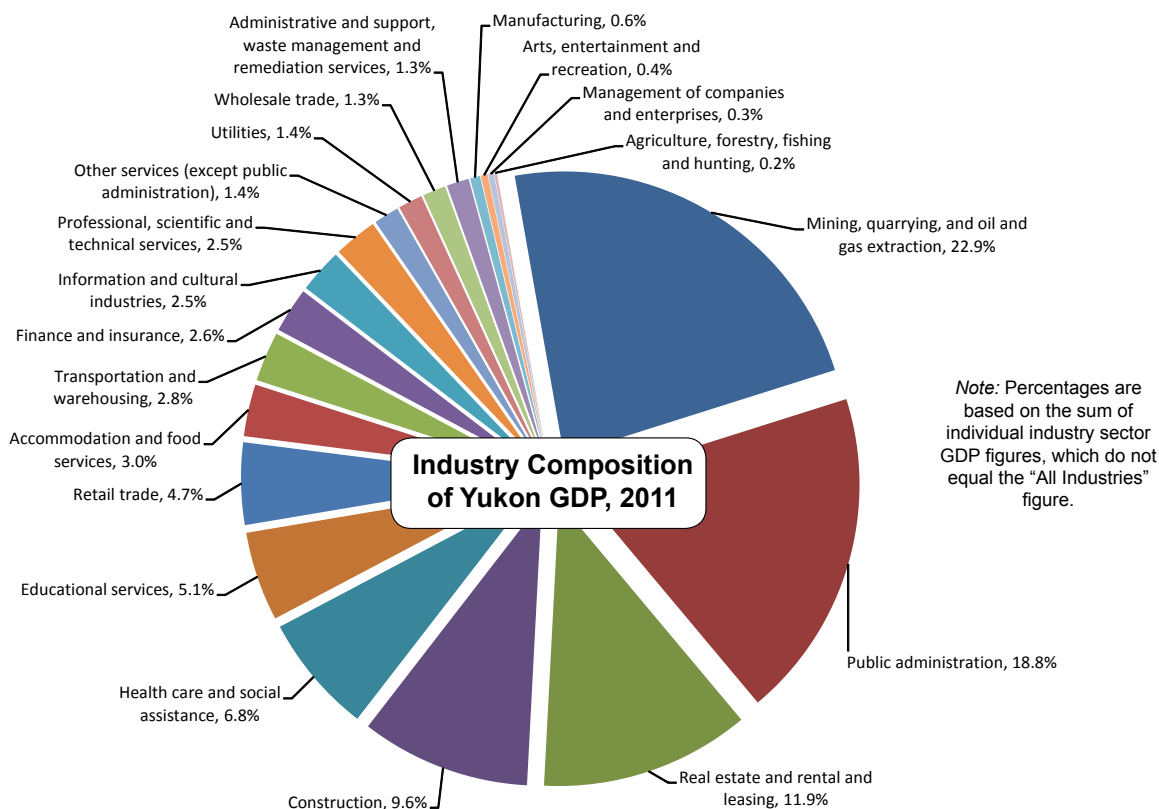


## Gross Domestic Product by Industry 2011

### Highlights:

Real Yukon GDP by Industry, 2011 ..... \$2,324,300,000  
 Growth Rate from 2010 to 2011 ..... 6.5%

- Yukon's GDP by industry (at basic prices in chained 2007 dollars) rose 6.5% in 2011 after a revised increase of 5.7% in 2010.
- In 2011, the largest dollar value increase was seen in the *Mining, quarrying, and oil and gas extraction* sector with an expansion of \$117.0 million, up 27.5% from 2010. The largest dollar value decrease was in the *Manufacturing* sector, with a contraction of \$5.6 million, down 29.2% from 2010.



The gross domestic product (GDP) of an industry represents the value added by labour and capital in transforming inputs purchased from other industries into output. This analytical report presents Statistics Canada's latest estimates of Yukon's real GDP by industry in chained 2007 (inflation-adjusted) dollars for 2007–2011 and nominal GDP by industry in current (not adjusted for inflation) dollars for 2007–2009. These figures are subject to revision.

(Please refer to page 8 for information on historical revisions included in this publication)

GDP is one of the primary economic indicators used by decision-makers within financial and other institutions to evaluate the health of the economy. A large increase in real GDP is interpreted as a sign that the economy is doing well, while a small or negative increase indicates poor economic conditions

## Real Gross Domestic Product by Industry, 2007-2011<sup>1</sup>

*millions of chained (2007) dollars<sup>2</sup>*

	2007 <sup>r</sup>	2008 <sup>r</sup>	2009 <sup>r</sup>	2010 <sup>r</sup>	2011
<b>AGRICULTURE, FORESTRY, FISHING AND HUNTING</b>	<b>3.9</b>	<b>4.1</b>	<b>3.6</b>	<b>4.3</b>	<b>3.7</b>
Crop and animal production	x	x	x	x	x
Forestry and logging	0.5	0.6	0.8	1.5	0.8
Fishing, hunting and trapping	x	x	x	x	x
Support activities for agriculture and forestry	0.3	0.2	0.2	0.2	0.3
<b>MINING, QUARRYING, AND OIL AND GAS EXTRACTION<sup>3</sup></b>	<b>154.8</b>	<b>282.7</b>	<b>391.7</b>	<b>424.7</b>	<b>541.7</b>
Oil and gas extraction	12.9	9.4	7.6	6.4	5.6
Mining and quarrying (except oil and gas)	69.3	204.1	x	x	x
Support activities for mining and oil and gas extraction	72.6	69.3	x	x	x
<b>UTILITIES</b>	<b>28.3</b>	<b>28.0</b>	<b>30.2</b>	<b>30.6</b>	<b>32.8</b>
<b>CONSTRUCTION</b>	<b>172.7</b>	<b>154.0</b>	<b>173.8</b>	<b>217.1</b>	<b>228.1</b>
Residential building construction	46.7	50.5	49.5	57.3	58.0
Non-residential building construction	21.6	15.2	24.5	20.7	22.1
Engineering construction	72.5	63.8	77.5	111.2	119.4
Repair construction	30.0	22.1	18.9	26.1	27.8
Other activities of the construction industry	1.8	2.3	3.0	3.9	3.8
<b>MANUFACTURING</b>	<b>14.4</b>	<b>14.8</b>	<b>14.7</b>	<b>19.2</b>	<b>13.6</b>
<b>WHOLESALE TRADE</b>	<b>32.7</b>	<b>33.3</b>	<b>29.1</b>	<b>29.0</b>	<b>31.1</b>
<b>RETAIL TRADE</b>	<b>90.2</b>	<b>95.9</b>	<b>97.3</b>	<b>104.6</b>	<b>110.4</b>
<b>TRANSPORTATION AND WAREHOUSING</b>	<b>54.6</b>	<b>67.2</b>	<b>62.0</b>	<b>62.8</b>	<b>66.9</b>
Air transportation	x	x	x	x	x
Truck transportation	9.1	x	9.4	x	x
Transit, ground passenger and scenic and sightseeing transportation	10.9	11.3	9.6	9.9	10.1
Support activities for transportation	x	x	x	x	x
Pipeline transportation	1.3	9.1	8.2	6.3	5.4
Postal service and couriers and messengers	5.1	5.1	5.4	5.6	5.5
Warehousing and storage	x	x	x	x	x
<b>INFORMATION AND CULTURAL INDUSTRIES</b>	<b>49.0</b>	<b>51.6</b>	<b>52.4</b>	<b>51.6</b>	<b>51.5</b>
<b>FINANCE AND INSURANCE</b>	<b>58.3</b>	<b>58.8</b>	<b>56.4</b>	<b>58.8</b>	<b>60.8</b>
Depository credit intermediation and monetary authorities	28.0	29.6	29.4	31.1	32.6
Non-depository credit intermediation	x	x	x	x	4.0
Activities related to credit intermediation	x	x	x	x	x
Insurance carriers and related activities	x	x	x	x	12.4
Financial investment services, funds and other financial vehicles	11.6	11.9	9.9	10.5	x
<b>REAL ESTATE AND RENTAL AND LEASING</b>	<b>236.4</b>	<b>246.9</b>	<b>257.9</b>	<b>268.3</b>	<b>282.1</b>
<b>PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES</b>	<b>59.3</b>	<b>59.3</b>	<b>56.3</b>	<b>56.8</b>	<b>58.5</b>
Legal, accounting and related services	21.7	21.7	20.3	20.0	20.6
Architectural, engineering and related services	15.2	15.1	13.6	14.2	14.2
Other professional, scientific and technical services including scientific research and development	18.7	19.0	18.6	18.5	19.5
Computer systems design and related services	x	x	x	x	x
Advertising, public relations, and related services	x	x	x	x	x

<sup>1</sup> Figures have been adjusted for inflation.

<sup>2</sup> See endnote on page 8.

<sup>3</sup> See endnote on page 8.

<sup>r</sup> = revised

x = suppressed for confidentiality

## Real Gross Domestic Product by Industry, 2007-2011<sup>1</sup>

*millions of chained (2007) dollars<sup>2</sup>*

	2007 <sup>r</sup>	2008 <sup>r</sup>	2009 <sup>r</sup>	2010 <sup>r</sup>	2011
<b>MANAGEMENT OF COMPANIES AND ENTERPRISES</b>	<b>6.7</b>	<b>7.2</b>	<b>7.1</b>	<b>7.3</b>	<b>7.5</b>
<b>ADMINISTRATIVE AND SUPPORT, WASTE MANAGEMENT AND REMEDIATION SERVICES</b>	<b>25.9</b>	<b>26.3</b>	<b>27.1</b>	<b>29.2</b>	<b>30.0</b>
Administrative and support services	22.4	22.5	x	x	x
Waste management and remediation services	3.5	3.8	x	x	x
<b>EDUCATIONAL SERVICES</b>	<b>108.7</b>	<b>111.1</b>	<b>114.4</b>	<b>117.7</b>	<b>120.2</b>
<b>HEALTH CARE AND SOCIAL ASSISTANCE</b>	<b>138.8</b>	<b>141.3</b>	<b>150.9</b>	<b>155.5</b>	<b>160.5</b>
<b>ARTS, ENTERTAINMENT AND RECREATION</b>	<b>10.3</b>	<b>10.4</b>	<b>9.3</b>	<b>9.4</b>	<b>9.3</b>
<b>ACCOMMODATION AND FOOD SERVICES</b>	<b>60.7</b>	<b>60.8</b>	<b>63.9</b>	<b>67.3</b>	<b>70.0</b>
Accommodation services	42.5	42.4	42.2	44.4	46.3
Food services and drinking places	18.2	18.4	21.8	23.1	24.0
<b>OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)</b>	<b>33.3</b>	<b>33.7</b>	<b>32.5</b>	<b>32.8</b>	<b>34.1</b>
Repair and maintenance	11.8	11.9	12.4	12.5	x
Personal services and private households	5.6	6.0	4.9	5.1	x
Religious, grant-making, civic, and professional and similar organizations	15.9	15.9	15.3	15.4	15.9
<b>PUBLIC ADMINISTRATION</b>	<b>416.2</b>	<b>425.4</b>	<b>442.2</b>	<b>443.6</b>	<b>444.1</b>
Federal government public administration	66.7	67.1	67.0	67.5	68.3
Provincial and territorial public administration	244.6	250.4	261.4	264.2	265.8
Local, municipal, regional and aboriginal public administration	105.0	107.9	113.9	112.1	110.3
<b>ALL INDUSTRIES</b>	<b>1,758.8</b>	<b>1,916.9</b>	<b>2,063.9</b>	<b>2,182.3</b>	<b>2,324.3</b>

<sup>1</sup> Figures have been adjusted for inflation.

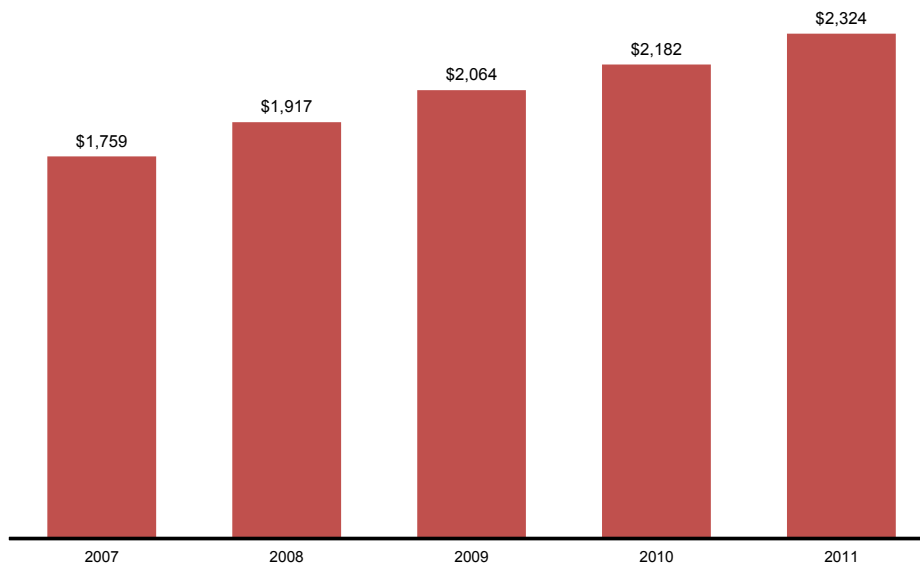
<sup>2</sup> See endnote on page 8.

<sup>r</sup> = revised

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## Real Gross Domestic Product, All Industries, 2007–2011

*millions of chained (2007) dollars*



## Year-to-Year Real Growth Rates (%) by Industry, 2008–2011<sup>1</sup>

*based on millions of chained (2007) dollars<sup>2</sup>*

	2008 <sup>r</sup>	2009 <sup>r</sup>	2010 <sup>r</sup>	2011
<b>AGRICULTURE, FORESTRY, FISHING AND HUNTING</b>	<b>5.1</b>	<b>-12.2</b>	<b>19.4</b>	<b>-14.0</b>
Crop and animal production	x	x	x	x
Forestry and logging	20.0	33.3	87.5	-46.7
Fishing, hunting and trapping	x	x	x	x
Support activities for agriculture and forestry	-33.3	0.0	0.0	50.0
<b>MINING, QUARRYING, AND OIL AND GAS EXTRACTION<sup>3</sup></b>	<b>82.6</b>	<b>38.6</b>	<b>8.4</b>	<b>27.5</b>
Oil and gas extraction	-27.1	-19.1	-15.8	-12.5
Mining and quarrying (except oil and gas)	194.5	x	x	x
Support activities for mining and oil and gas extraction	-4.5	x	x	x
<b>UTILITIES</b>	<b>-1.1</b>	<b>7.9</b>	<b>1.3</b>	<b>7.2</b>
<b>CONSTRUCTION</b>	<b>-10.8</b>	<b>12.9</b>	<b>24.9</b>	<b>5.1</b>
Residential building construction	8.1	-2.0	15.8	1.2
Non-residential building construction	-29.6	61.2	-15.5	6.8
Engineering construction	-12.0	21.5	43.5	7.4
Repair construction	-26.3	-14.5	38.1	6.5
Other activities of the construction industry	27.8	30.4	30.0	-2.6
<b>MANUFACTURING</b>	<b>2.8</b>	<b>-0.7</b>	<b>30.6</b>	<b>-29.2</b>
<b>WHOLESALE TRADE</b>	<b>1.8</b>	<b>-12.6</b>	<b>-0.3</b>	<b>7.2</b>
<b>RETAIL TRADE</b>	<b>6.3</b>	<b>1.5</b>	<b>7.5</b>	<b>5.5</b>
<b>TRANSPORTATION AND WAREHOUSING</b>	<b>23.1</b>	<b>-7.7</b>	<b>1.3</b>	<b>6.5</b>
Air transportation	x	x	x	x
Truck transportation	x	x	x	x
Transit, ground passenger and scenic and sightseeing transportation	3.7	-15.0	3.1	2.0
Support activities for transportation	x	x	x	x
Pipeline transportation	600.0	-9.9	-23.2	-14.3
Postal service and couriers and messengers	0.0	5.9	3.7	-1.8
Warehousing and storage	x	x	x	x
<b>INFORMATION AND CULTURAL INDUSTRIES</b>	<b>2.7</b>	<b>5.7</b>	<b>1.8</b>	<b>2.6</b>
<b>FINANCE AND INSURANCE</b>	<b>0.9</b>	<b>-4.1</b>	<b>4.3</b>	<b>3.4</b>
Depository credit intermediation and monetary authorities	5.7	-0.7	5.8	4.8
Non-depository credit intermediation	x	x	x	x
Activities related to credit intermediation	x	x	x	x
Insurance carriers and related activities	x	x	x	x
Financial investment services, funds and other financial vehicles	2.6	-16.8	6.1	x
<b>REAL ESTATE AND RENTAL AND LEASING</b>	<b>4.4</b>	<b>4.5</b>	<b>4.0</b>	<b>5.1</b>
<b>PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES</b>	<b>0.0</b>	<b>-5.1</b>	<b>0.9</b>	<b>3.0</b>
Legal, accounting and related services	0.0	-6.5	-1.5	3.0
Architectural, engineering and related services	-0.7	-9.9	4.4	0.0
Other professional, scientific and technical services including scientific research and development	1.6	-2.1	-0.5	5.4
Computer systems design and related services	x	x	x	x
Advertising, public relations, and related services	x	x	x	x

<sup>1</sup> Based on figures that have been adjusted for inflation.

<sup>2</sup> See endnote on page 8.

<sup>3</sup> See endnote on page 8.

<sup>r</sup> = revised

x = suppressed for confidentiality

## Year-to-Year Real Growth Rates (%) by Industry, 2008–2011<sup>1</sup>

*based on millions of chained (2007) dollars<sup>2</sup>*

	2008 <sup>r</sup>	2009 <sup>r</sup>	2010 <sup>r</sup>	2011
<b>MANAGEMENT OF COMPANIES AND ENTERPRISES</b>	<b>7.5</b>	<b>-1.4</b>	<b>2.8</b>	<b>2.7</b>
<b>ADMINISTRATIVE AND SUPPORT, WASTE MANAGEMENT AND REMEDIATION SERVICES</b>	<b>1.5</b>	<b>3.0</b>	<b>7.7</b>	<b>2.7</b>
Administrative and support services	0.4	x	x	x
Waste management and remediation services	8.6	x	x	x
<b>EDUCATIONAL SERVICES</b>	<b>2.2</b>	<b>3.0</b>	<b>2.9</b>	<b>2.1</b>
<b>HEALTH CARE AND SOCIAL ASSISTANCE</b>	<b>1.8</b>	<b>6.8</b>	<b>3.0</b>	<b>3.2</b>
<b>ARTS, ENTERTAINMENT AND RECREATION</b>	<b>1.0</b>	<b>-10.6</b>	<b>1.1</b>	<b>-1.1</b>
<b>ACCOMMODATION AND FOOD SERVICES</b>	<b>0.2</b>	<b>5.1</b>	<b>5.3</b>	<b>4.0</b>
Accommodation services	-0.2	-0.5	5.2	4.3
Food services and drinking places	1.1	18.5	6.0	3.9
<b>OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)</b>	<b>1.2</b>	<b>-3.6</b>	<b>0.9</b>	<b>4.0</b>
Repair and maintenance	0.8	4.2	0.8	x
Personal services and private households	7.1	-18.3	4.1	x
Religious, grant-making, civic, and professional and similar organizations	0.0	-3.8	0.7	3.2
<b>PUBLIC ADMINISTRATION</b>	<b>2.2</b>	<b>3.9</b>	<b>0.3</b>	<b>0.1</b>
Federal government public administration	0.6	-0.1	0.7	1.2
Provincial and territorial public administration	2.4	4.4	1.1	0.6
Local, municipal, regional and aboriginal public administration	2.8	5.6	-1.6	-1.6
<b>ALL INDUSTRIES</b>	<b>9.0</b>	<b>7.7</b>	<b>5.7</b>	<b>6.5</b>

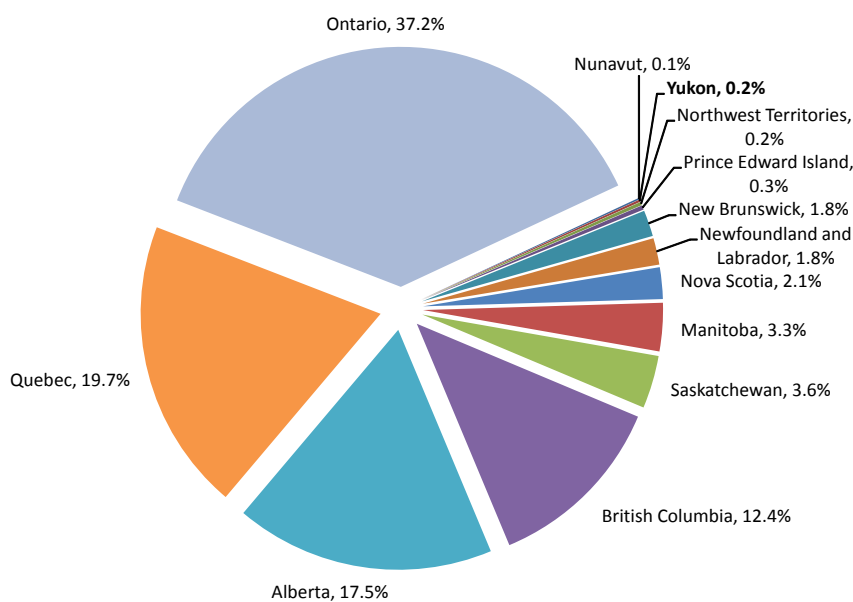
<sup>1</sup> Based on figures that have been adjusted for inflation.

<sup>2</sup> See endnote on page 8.

<sup>r</sup> = revised

x = suppressed for confidentiality

### Yukon's 2011 Real GDP by Industry, as a percentage of Total Provincial/Territorial Real GDP by Industry



## Nominal Gross Domestic Product by Industry, 2007–2009<sup>1</sup>

*millions of current dollars*

	2007 <sup>r</sup>	2008 <sup>r</sup>	2009
<b>AGRICULTURE, FORESTRY, FISHING AND HUNTING</b>	<b>3.9</b>	<b>4.1</b>	<b>3.3</b>
Crop and animal production	x	x	x
Forestry and logging	0.5	0.6	0.6
Fishing, hunting and trapping	x	x	x
Support activities for agriculture and forestry	0.3	0.2	0.2
<b>MINING, QUARRYING, AND OIL AND GAS EXTRACTION<sup>3</sup></b>	<b>154.8</b>	<b>270.0</b>	<b>300.3</b>
Oil and gas extraction	12.9	12.7	4.6
Mining and quarrying (except oil and gas)	69.3	187.4	x
Support activities for mining and oil and gas extraction	72.6	69.9	x
<b>UTILITIES</b>	<b>28.3</b>	<b>23.9</b>	<b>26.6</b>
<b>CONSTRUCTION</b>	<b>172.7</b>	<b>161.5</b>	<b>197.3</b>
Residential building construction	46.7	52.9	65.5
Non-residential building construction	21.6	16.5	30.3
Engineering construction	72.5	67.1	79.1
Repair construction	30.0	22.4	18.7
Other activities of the construction industry	1.8	2.5	3.5
<b>MANUFACTURING</b>	<b>14.4</b>	<b>16.7</b>	<b>17.3</b>
<b>WHOLESALE TRADE</b>	<b>32.7</b>	<b>35.5</b>	<b>28.6</b>
<b>RETAIL TRADE</b>	<b>90.2</b>	<b>94.3</b>	<b>93.9</b>
<b>TRANSPORTATION AND WAREHOUSING</b>	<b>54.6</b>	<b>68.3</b>	<b>62.7</b>
Air transportation	x	x	x
Truck transportation	9.1	x	8.9
Transit, ground passenger and scenic and sightseeing transportation	10.9	10.9	9.1
Support activities for transportation	x	x	x
Pipeline transportation	1.3	13.5	10.3
Postal service and couriers and messengers	5.1	4.8	5.1
Warehousing and storage	x	x	x
<b>INFORMATION AND CULTURAL INDUSTRIES</b>	<b>52.6</b>	<b>56.5</b>	<b>59.1</b>
<b>FINANCE AND INSURANCE</b>	<b>58.3</b>	<b>59.5</b>	<b>54.2</b>
Depository credit intermediation and monetary authorities	28.0	28.8	26.6
Non-depository credit intermediation	x	x	x
Activities related to credit intermediation	x	x	x
Insurance carriers and related activities	x	x	x
Financial investment services, funds and other financial vehicles	11.6	12.8	9.2
<b>REAL ESTATE AND RENTAL AND LEASING</b>	<b>236.4</b>	<b>248.3</b>	<b>275.5</b>
<b>PROFESSIONAL, SCIENTIFIC AND TECHNICAL SERVICES</b>	<b>59.3</b>	<b>61.4</b>	<b>60.4</b>
Legal, accounting and related services	21.7	22.6	20.9
Architectural, engineering and related services	15.2	15.3	14.3
Other professional, scientific and technical services including scientific research and development	18.7	19.8	21.1
Computer systems design and related services	x	x	x
Advertising, public relations, and related services	x	x	x

<sup>1</sup> Figures have not been adjusted for inflation.

<sup>3</sup> See endnote on page 8.

<sup>r</sup> = revised

x = suppressed for confidentiality

## Nominal Gross Domestic Product by Industry, 2007–2009<sup>1</sup>

*millions of current dollars*

	2007 <sup>r</sup>	2008 <sup>r</sup>	2009
<b>MANAGEMENT OF COMPANIES AND ENTERPRISES</b>	<b>6.7</b>	<b>7.7</b>	<b>8.3</b>
<b>ADMINISTRATIVE AND SUPPORT, WASTE MANAGEMENT AND REMEDIATION SERVICES</b>	<b>25.9</b>	<b>27.4</b>	<b>28.4</b>
Administrative and support services	22.4	23.8	x
Waste management and remediation services	3.5	3.7	x
<b>EDUCATIONAL SERVICES</b>	<b>108.7</b>	<b>115.7</b>	<b>119.1</b>
<b>HEALTH CARE AND SOCIAL ASSISTANCE</b>	<b>138.8</b>	<b>146.1</b>	<b>167.3</b>
<b>ARTS, ENTERTAINMENT AND RECREATION</b>	<b>10.3</b>	<b>9.9</b>	<b>10.3</b>
<b>ACCOMMODATION AND FOOD SERVICES</b>	<b>60.7</b>	<b>62.7</b>	<b>64.2</b>
Accommodation services	42.5	43.8	44.5
Food services and drinking places	18.2	19.0	19.7
<b>OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)</b>	<b>33.3</b>	<b>34.4</b>	<b>35.9</b>
Repair and maintenance	11.8	12.0	12.8
Personal services and private households	5.6	6.0	6.7
Religious, grant-making, civic, and professional and similar organizations	15.9	16.4	16.4
<b>PUBLIC ADMINISTRATION</b>	<b>416.2</b>	<b>463.3</b>	<b>487.3</b>
Federal government public administration	66.7	69.4	73.5
Provincial and territorial public administration	244.6	278.8	290.2
Local, municipal, regional and aboriginal public administration	105.0	115.1	123.6
<b>ALL INDUSTRIES</b>	<b>1,758.8</b>	<b>1,967.3</b>	<b>2,100.3</b>

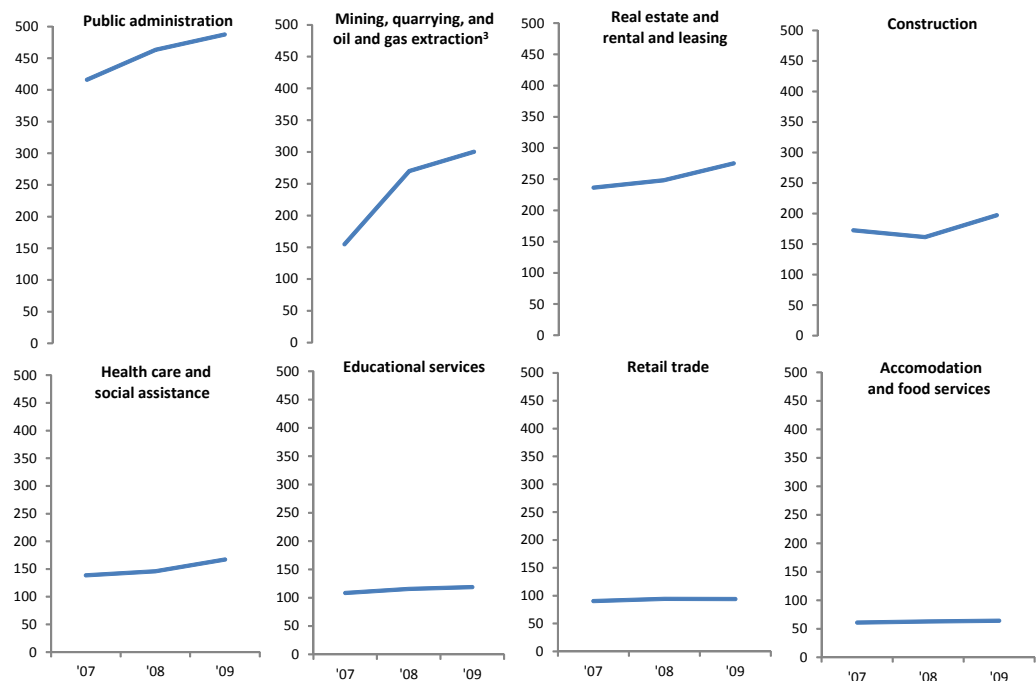
<sup>1</sup> Figures have not been adjusted for inflation.

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### Nominal GDP of Eight Largest Industries, 2007–2009

*(millions of current dollars)*



The estimates contained in this publication are produced by Statistics Canada's Input-Output Division, and are reconciled with the overall provincial/territorial GDP figures produced by Statistics Canada's Income and Expenditure Accounts Division (IEAD).

#### Historical Revisions:

Periodically, the provincial and territorial gross domestic product by industry data undergoes historical revisions, broader in scope than the regular revisions undertaken on an annual basis. These historical revisions are reserved for incorporating updated international and national accounting concepts as well as classification updates and methodological and statistical improvements. These changes are part of a comprehensive revision to the Canadian System of National Economic Accounts.

This publication incorporates such revisions back to 2007:

- Conversion of the industrial structure from North American Industrial Classification System 2002 (NAICS 2002) to NAICS 2007.
- A new reference year (2007) for the chained dollars series replaces the 2002 reference year data.
- Changes in the published industrial detail for provincial-territorial GDP program are based on the classification changes made to the Input-Output tables, which represent a realignment that better reflects the industries' relative importance in today's economy.

**Note on the definition of the Public Administration Industry:** This sector comprises establishments primarily engaged in activities of a governmental nature, that is, the enactment and judicial interpretation of laws and their pursuant regulations, and the administration of programs based on them. Legislative activities, taxation, national defence, public order and safety, immigration services, foreign affairs and international assistance, and the administration of government programs are activities that are purely governmental in nature.

Ownership is not a criterion for classification. Government owned establishments engaged in activities that are not governmental in nature are classified to the same industry as privately owned establishments engaged in similar activities.

Government establishments may engage in a combination of governmental and non-governmental activities. When separate records are not available to separate the activities that are not governmental in nature from those that are, the establishment is classified to this sector.

Source for all publication data: Statistics Canada CANSIM 379-0030.

<sup>2</sup> Statistics Canada uses the chain Fisher volume index method of calculating the inflation-adjusted, or real, gross domestic product (GDP). This method was adopted as it produces the most accurate measure of growth in GDP and its components, and the change brings the Canadian measure in line with the US quarterly Income and Product Accounts which also use the chain Fisher formula to measure real GDP.

An important consequence of using chain indexes is that the associated volume measures are not additive. That is, the sum of the chained values for each component of an aggregate does not equal the chained value of the aggregate. For example, the sum of the components of the Transportation & Warehousing Industry is not equal to the number given for that industry, just as the sum of the individual industry sectors is not equal to the number given for All Industries.

For more information on chain indexes, visit: <http://www.statcan.gc.ca/nea-cen/gloss/iea-crd-eng.htm>

While the general concepts followed in compiling these estimates are consistent with those underlying the IEAD, there still remains conceptual differences between the GDP at market prices and GDP at basic prices. For more information, refer to: <http://www.statcan.gc.ca/nea-cen/gloss/gdpind-pibind-eng.htm>

All of the GDP estimates in this publication are measured in basic prices.

<sup>3</sup>The most recent benchmark year for which the input-output structure of Yukon's economy is measured is 2009 and therefore it is the most current year for which the contributions of different industries to GDP may be accurately measured. GDP calculations for subsequent years are projections based on the structure of Yukon's economy in 2009 and changes in prices and output volumes in intervening years. Substantial revisions to these estimates can occur if there are major changes to the structure of the economy; for example, the opening of a large mine after the most recent input/output accounts reference year.