

**Forecasting and Economic Impact Studies**

**by Econometrik Plus<sup>1</sup>**

**with its Rectangular Input-Output models**

October 27, 2002

**1.0 A Overview of Methodology**

The [FuturCanada®](#) model developed by Econometrik Plus integrates a number of econometric modules about the Canadian economy with Rectangular Input-Output models. These Input-Output models constitute the core of its comprehensive system of large scale models of the Canadian economy.

These models can be used for a number of purposes, including:

1. Medium and long-term structural analysis looking at the general economic trends until the year 2021. These analyses are performed by the [FuturCanada®Prévisions](#) division.
2. Economic impact analysis which are performed by its [FuturCanada®Impacts](#) division.

Both the structural and the impact analysis use the Rectangular Input-Output models for all ten Canadian provinces. The regional statistics underpinning the models are developed by Econometrik Plus using the latest data available from Statistics Canada.

All the provincial models used by Econometrik Plus are closed to consumer expenditures. They are also able to measure the economic impacts for all ten provinces simultaneously, thanks to interregional export and import matrices of goods and services. For example, the purchase in Quebec of a good manufactured in Ontario can, at the next round of expenditures, generate the purchase of another item, this time in Quebec, to be used as input into the production of the good initially bought from the Ontario manufacturer.

For now, the provincial models are not yet closed to private sector investment. However, this development will be forthcoming in a near future.

**2.0 FuturCanada®Prévisions Division**

The [FuturCanada®](#) model has been available on the [Econometrik Plus](#) Web Site for over a year. It has been presented twice at international conferences. The first one was at

---

<sup>1</sup> [Econometrik Plus](#) is the short form of [Econometrik National Plus Inc.](#)

the [INFORUM 2002](#) Conference held in Washington, DC from July 28th to August 2, 2002. The second presentation was made at the [14th International Conference on Input-Output Techniques](#) held in Montreal, October 10-15, 2002.

The **FuturCanada®** model has been used a number of times, including in the Shipbuilding industry in 2001-02. A summary of the model and its huge time-series content are available on its Web Site at:

[www.econometrikplus.com](http://www.econometrikplus.com)

### **3.0 FuturCanada®Impacts Division**

The models used in the **FuturCanada®Impacts** model (discussed above under [item 1.0](#)), have been used to do over 120 economic impact studies over the last 20 years. Annex A provides an overview of the broad scope of the sectors covered by previous studies. For example, agriculture, fisheries, mining sector, highway construction, tourism, etc.

**Econometrik Plus** clients benefit from the best expertise available in Canada today with regard to impact studies, both in terms of experience and in terms of impact models. Our economic impact models offer significant advantages, including the following :

#### **3.1 Broad Spectrum of Economic Statistics**

Our models offer open and closed simulations which enable us to calculate direct, indirect and induced impacts. Our models generate the following statistics :

- 3.1.1 **Employment and sales** by industry (147 industries for the interprovincial model);
- 3.1.2 **Gross Domestic Product (GDP)** by province;
- 3.1.3 **Tax revenues** for each of the provincial as well as the federal governments;
- 3.1.4 **Labour force**: impact on the number of **unemployed** and on the **unemployment rate**;
- 3.1.5. Number of **housing starts**;
- 3.1.6 **Employment by occupation** for over **450 occupations**;
- 3.1.7 **Impacts on migration** (net impact on total population).

#### **3.2 Geographical Flexibility: Impacts by Province or by County**

Our models offer unparalleled flexibility about the region of impact. We can provide economic impacts for the whole Canada, by province (for each of the ten provinces) or by county within a province. We have the ability to estimate the impacts of expenditures by county for all the counties simultaneously.

### **3.3 Tax revenues**

Our model calculate federal and provincial tax revenues such as: personal income tax, Corporate tax on profits, indirect taxes (such as the provincial sales tax), GST, custom duties and royalties on natural resources.

### **3.4 Multi-year projects**

Our models can run a simulation with expenses on several years. But just one simulation is necessary. It saves time and money to our costumers.

### **3.5 Dynamic impacts by year**

You get the distribution of the impacts over time, for up to 15 years after the initial expenditure. As a result, it is easy to track the diffusion and the development of the impacts, per year, in the economy.

### **3.6 Accurate estimation of impacts**

While some I/O models tend to overestimate the induced impacts (and consequently the total impacts), our models were designed so as to insure our customers that they have the most accurate results possible. Moreover, our method of calculating the employment figures is accurate and straightforward. It does not lead to overestimation and our customers do not have to deflate the employment figures.

**ANNEXE A**

**PARTIAL LIST OF ECONOMIC IMPACT STUDIES PERFORMED BY OUR IMPACT MODELS**

---

**Resource Sector**

1. Impact of the agricultural sector on the Nova Scotia economy.
2. Impact of major commercial fisheries (including boat construction) in Atlantic Canada.
3. Impact of aquaculture operations in several parts of the country.

**Energy Sector**

1. Impact of construction and operations of a gas pipeline.
2. Impact of the expansion of a gas pipeline.
3. Impact of a refinery in Atlantic Canada.

**Tourism and Sports**

1. Impact of O&M expenditures and tourists expenditures for all provincial parks in BC.
2. Impact of a major expansion project in a National Park, including impact of visitor and O&M expenditures.
3. Impact of a major sporting event.

**Transportation Sector**

1. Impact of expansion and operations of a major port.
2. Impact of the construction of a major road engineering project.
3. Impact of the operations of rail transportation.

**Manufacturing Sector**

1. Impact of operations of a major manufacturing plant in Atlantic Canada.

2. Impact of operations of a major bottling operation.

**Public Sector**

1. Impact of operations at CFB Comox
2. Impact of the construction and operations of a sewage treatment plant.
3. Impact of infrastructure projects in a major metropolitan area.

**ANNEXE B**

**LIST OF THE 476 COMMODITIES AND 168 INDUSTRIES  
IN THE INPUT-OUTPUT MODELS**

<u>COMMODITIES</u> (Goods and services)	<u>INDUSTRIES</u>
1 Cattle & calves	001 Agricultural and related service industries
2 Hogs	002 Fishing and trapping industries
3 Poultry	003 Logging and forestry industries
4 Other live animals	004 Gold mines
5 Wheat, unmilled	005 Other metal mines
6 Corn, barley, oats & other grains	006 Iron mines
7 Fluid milk, unprocessed	007 Asbestos mines
8 Eggs in the shell	008 Other non-metal mines (except coal)
9 Honey & beeswax	009 Salt mines
10 Fresh fruit, excl. tropical	010 Coal mines
11 Vegetables, fresh or chilled	011 Crude petroleum and natural gas industries
12 Hay & straw	012 Quarry and sand pit industries
13 Seeds, excl. oil seeds	013 Services ind. incidental to mineral extraction
14 Nursery stock, flowers, etc.	014 Meat and meat products ind. (except poultry)
15 Canola, soybeans & other oil seeds	015 Poultry products industry
16 Raw tobacco	016 Fish products industry
17 Raw wool & mink skins	017 Fruit and vegetable industries
18 Services incidental to agric. & forestry	018 Dairy products industries
19 Logs, bolts & poles	019 Miscellaneous food product industries
20 Pulpwood	020 Feed industry
21 Fuelwood & other crude wood	021 Vegetable oil mills (except corn oil)
22 Custom forestry	022 Biscuit industry
23 Fish & seafood, fresh, chilled	023 Bread and other bakery products industry
24 Hunting & trapping products	024 Cane and beet sugar industry
25 Gold & alloys in primary forms	025 Soft drink industry
26 Radioactive ores & concentrates	026 Distillery products industry
27 Iron ores & concentrates	027 Brewery products industry
28 Bauxite & alumina	028 Wine industry
29 Other metal ores & concentrates	029 Tobacco products industries
30 Coal	030 Rubber products industries
31 Crude mineral oils	031 Plastic products industries
32 Natural gas, excl. liquefied	032 Leather tanneries
33 Sulphur, crude & refined	033 Footwear industry
34 Asbestos, crude & milled	034 Miscellaneous leather and allied products ind.
35 Gypsum	035 Man-made fibre yarn and woven cloth ind.

36	Salt	036	Wool yarn and woven cloth industry
37	Peat	037	Broad knitted fabric industry
38	Clays	038	Miscellaneous textile products industries
39	Natural abrasives & industrial diamonds	039	Carpet, mat and rug industry
40	Other crude minerals	040	Clothing industries excluding hosiery
41	Sand (excl. silica) & gravel	041	Hosiery industry
42	Stone & silica for industrial use	042	Sawmill, planing mill and shingle mill prod. ind.
43	Services incidental to mining	043	Veneer and plywood industries
44	Beef, pork, other meat, fresh, chilled, frozen	044	Sash, door and other millwork industries
45	Cured meat	045	Wooden box and coffin industries
46	Prepared meat products	046	Other wood industries
47	Animal fat & lard	047	Household furniture industries
48	Margarine & shortening	048	Office furniture industries
49	Sausage casings	049	Other furniture and fixture industries
50	Feeds from animal by products	050	Pulp and paper industries
51	Raw animal hides & skins	051	Asphalt roofing industry
52	Animal by-products for ind. use	052	Paper box and bag industries
53	Custom work, meat & food	053	Other converted paper products industries
54	Poultry, fresh, chilled, frozen	054	Printing and publishing industries
55	Other dairy products	055	Playmaking, typesetting and bindery industry
56	Fresh cream	056	Primary steel industries
57	Butter	057	Steel pipe and tube industry
58	Cheese	058	Iron foundries
59	Ice cream	059	Non-ferrous metal smelting and refining ind.
60	Mayonnaise, salad dressing & mustard	060	Aluminium rolling, casting and extruding ind.
61	Fish & seafood products	061	Copper and copper alloy roll., cast. and extr. ind.
62	Other fruit products	062	Oth. roll., cast & extr. non-ferrous met. prod. ind.
63	Fruit & jam in airtight containers	063	Power boiler and structural metal industries
64	Other preserved vegetables	064	Ornamental and architectural metal prod. ind.
65	Vegetables & juice in airtight containers	065	Stamped, pressed and coated metal prod. ind.
66	Soups in airtight containers	066	Wire and wire products industries
67	Infant & junior foods, in airtight containers	067	Hardware, tool and cutlery industries
68	Sauces, pickles, etc.	068	Heating equipment industry
69	Vinegar	069	Machine shop industry
70	Prepared meals, mineral water, pasta prod. etc.	070	Other metal fabricating industries
71	Feed supplements & premixes	071	Agricultural implement industry
72	Complete feeds	072	Commercial refrig. and air cond. equip. ind.
73	Feeds from grain by-products	073	Other machinery and equipment industries
74	Feeds from vegetable by-products	074	Aircraft and aircraft parts industry
75	Pet feeds	075	Motor vehicle industry
76	Wheat flour	076	Truck and bus body and trailer industries
77	Starches	077	Motor vehicle parts and accessories industries
78	Breakfast cereal products	078	Railroad rolling stock industry

79	Biscuits	079	Shipbuilding and repair industry
80	Bread & rolls	080	Miscellaneous transportation equipment ind.
81	Other bakery products incl. food snacks	081	Small electrical appliance industry
82	Cocoa & chocolate	082	Major appliance ind. (electric and non-electric)
83	Nuts	083	Other electrical and electronic product ind.
84	Confectionery	084	Record player, radio and television receiver ind.
85	Sugar	085	Communication & other electronic equip. ind.
86	Oil-cake feeds	086	Office, store and business machine industries
87	Crude vegetable oils	087	Communications and energy wire and cable ind.
88	Nitrogen function compounds	088	Battery industry
89	Other flours & processed grains	089	Clay products industries
90	Maple sugar, syrup & other syrup	090	Hydraulic cement industry
91	Prepared cake & other mixes	091	Concrete products industries
92	Dehydrated soup mixes & bases	092	Ready-mix concrete industry
93	Roasted coffee	093	Glass and glass products industries
94	Tea	094	Miscellaneous non-metallic mineral products ind.
95	Potato chips & flakes	095	Refined petroleum and coal products industries
96	Other food products	096	Industrial chemicals industries n.e.c.
97	Soft drink concentrates	097	Chemical products industries n.e.c.
98	Carbonated soft drinks	098	Plastic and synthetic resin industry
99	Distilled alcoholic beverages	099	Pharmaceutical and medicine industry
100	Beer, incl. coolers	100	Paint and varnish industry
101	Wine, incl. coolers	101	Soap and cleaning compounds industry
102	Unmanufactured tobacco	102	Toilet preparations industry
103	Cigarettes	103	Other manufacturing industries
104	Other tobacco products	104	Jewellery and precious metal industries
105	Waterproof footwear	105	Sporting goods and toy industries
106	Passenger car tires	106	Sign and display industry
107	Truck, bus & off-highway tires	107	Floor tile, linoleum and coated fabric industry
108	Other tires & tire repair material	108	Repair construction
109	Conveyor & transmission belting	109	Residential construction
110	Other rubber products	110	Non-residential building construction
111	Hose & tubing, mainly rubber	111	Road, highway and airport runway construction
112	Plastic containers & closures	112	Gas and oil facility construction
113	Other plastic prod. & rubber end prod.	113	Electric power, dams and irrigation construction
114	Leather & other leather goods	114	Railway and telecommunication construction
115	Footwear, excl. waterproof	115	Other engineering construction
116	Leather gloves	116	Construction, other activities
117	Luggage, briefcases, etc.	117	Air transport and related service industries
118	Handbags, wallets, etc.	118	Railway transport and related service industries
119	Cotton woven fabric	119	Water transport and related services industries
120	Tire cord fabric	120	Truck transport industries
121	Felt	121	Urban transit systems industry

122	Man-made staple fibres	122	Interurban and rural transit systems industry
123	Polyamide resins, incl. nylon	123	Miscellaneous transport services
124	Yarn, filament & staple fibres	124	Pipeline transport industries
125	Tire yarn	125	Storage and warehousing industries
126	Fabrics, excl. cotton	126	Telecommunication broadcasting industries
127	Yarn & thread, excl. filament & tire	127	Telecommunication carriers industries
128	Rope & twine	128	Postal and courier service industries
129	Narrow fabrics, incl. lace	129	Electric power systems industry
130	Textile floor covering	130	Gas distribution systems industry
131	Textile dyeing & finishing service	131	Water systems and other utility industries n.e.c.
132	Awnings, tarpaulins, etc.	132	Wholesale trade industries
133	Tents, sleeping bags, sails, etc.	133	Retail trade industries
134	Bedding & other household textile products	134	Finance and real estate ind. (excl. owner occupied)
135	Other textile products	135	Insurance industries
136	Hosiery	136	Owner occupied dwellings
137	Knitted fabrics	137	Other business services industries
138	Clothing & accessories	138	Professional business services industries
139	Dressed furs	139	Advertising services
140	Fur apparel	140	Educational service industries, private
141	Custom tailoring	141	Other health and social service industries
142	Wood chips & wood waste	142	Accommodation, food and beverage service ind.
143	Lumber & timber	143	Motion picture and video industries
144	Custom wood work & millwork	144	Other amusement and recreational services
145	Plywood & veneer	145	Other personal service industries
146	Wood construction products, excl. prefab. bldg.	146	Laundries and cleaners
147	Wood prefabricated buildings	147	Membership org. (excl. religious) & other serv. ind.
148	Wood containers	148	Operating supplies
149	Caskets & coffins	149	Office supplies
150	Other wood end products	150	Cafeteria supplies
151	Household furniture & furniture parts	151	Laboratory supplies
152	Office furniture	152	Travel & entertainment
153	Other furniture & fixtures	153	Advertising & promotion
154	Wood pulp	154	Transportation margins
155	Newsprint paper	155	N.B. - P Religious organizations
156	Other paper	156	N.B. - P Welfare organizations
157	Tissue & sanitary paper stock	157	N.B. - P Sports & recreation clubs
158	Wrapping & sack paper, bag stock	158	N.B. - P Educational institutions
159	Paperboard, incl. boxboard	159	N.B. - P Other organizations
160	Asphalt building products & building paper	160	N.B. - G Hospitals
161	Toilet paper, paper towel, tissue, etc.	161	N.B. - G Residential care facilities
162	Paper waste & scrap	162	N.B. - G University education
163	Vinyl floor & wall covering	163	N.B. - G Other educational serv.

164	Paper bags and containers, plastic bags	164	N.B. - G Defence services
165	Coated paper prod. incl. wallpaper	165	N.B. - G Other municipal govt.
166	Stationery & photographic paper	166	N.B. - G Other provincial & territorial govt.
167	Other paper end products	167	N.B. - G Other federal govt.
168	Newspapers, magazines & periodicals	168	Households
169	Books, greeting & post cards, maps, etc.		<b>N.B. : non business sectors</b>
170	Banknotes, cheques & stamps, etc.		
171	Business forms, advert. flyers, other printed matter		
172	Advertising in print media		
173	Specialized publishing service		
174	Printing plates, type, etc.		
175	Ferro-alloys		
176	Iron & steel ingots, billets, etc.		
177	Steel castings		
178	Reinforcing bars & rods		
179	Flat iron & steel, incl. alloy, coated		
180	Steel railway construction material		
181	Tar & pitch		
182	Carbon & graphite products		
183	Oil & gas casing & drill pipe		
184	Oil & gas line pipe		
185	Other steel pipes & tubes		
186	Other cast iron products		
187	Iron & steel pipe fittings		
188	Nickel in primary forms		
189	Copper in primary forms		
190	Lead in primary forms		
191	Zinc in primary forms		
192	Aluminum in primary forms		
193	Precious metals in primary forms excl. gold		
194	Other non-ferrous base & fabricated materials		
195	Other inorganic bases & metallic oxides		
196	Metal scrap & waste		
197	Aluminum & aluminum alloy fabricated materials		
198	Copper fabricated materials		
199	Copper alloy fabricated materials		
200	Lead & lead alloy fabricated materials		
201	Nickel & nickel alloy fabricated materials		
202	Zinc & zinc alloy fabricated materials		
203	Soldering rods & wire		
204	Fabricated steel plate		
205	Metal tanks		
206	Power boilers		

207	Iron & steel structural materials
208	Prefabricated structures & buildings
209	Metal doors, windows and other building prod.
210	Corrugated metal culvert pipe
211	Iron & steel stampings
212	Metal roofing, siding, ducts, etc.
213	Other metal end products
214	Iron & steel wire & cable
215	Iron & steel wire fencing & screen
216	Chain, excl. motor vehicle & power transmission
217	Welding rods & wire electrodes
218	Kitchen utensils & wire products
219	Hardware
220	Hand & measuring tools
221	Scissors, razor blades, industrial cutlery, etc.
222	Hhold washers, dryers, movers, snowblowers, etc.
223	Non-electric furnaces & heating equipment
224	Commercial cooking equipment
225	Custom metal working
226	Iron & steel forgings
227	Valves
228	Metal & plastic plumbing fixtures & fittings
229	Gas & water meters
230	Fire fighting & traffic control equipment
231	Firearms & military hardware
232	Bulldozers, farm & garden tractors
233	Other agricultural machinery
234	Bearings & mechanical power trans. equipment
235	Pumps, compressors, fans & blowers
236	Conveyors, elevators & hoisting machinery
237	Industrial trucks & material handling equipment
238	Fans & air circulation units, not industrial
239	Air purification equip. & other gen. purpose mach.
240	Industrial furnaces, kilns & ovens
241	Machine tools & industry specific machinery
242	Power hand tools
243	Refrig. & air cond. equip. excl. household
244	Scales & balances
245	Vending machines
246	Computers & office equip. excl. photo.& facsimile
247	Aircraft
248	Aircraft engines
249	Aircraft parts & equipment

250	Aircraft service & repairs
251	Automobiles, incl. passenger vans
252	Trucks, road tractors & chassis
253	Buses & chassis
254	Other motor veh., motor homes, motorcycles etc.
255	Mobile homes
256	Trailers & semi-trailers
257	Truck & bus bodies & cargo containers
258	Motor vehicle engines & parts
259	Motor vehicle electric equipment
260	Motor veh. parts & access. excl. engine & electric
261	Locomotive, railway & urban trans. rolling stock
262	Parts for loc., railway & urban trans. rolling stock
263	Ships, boats & parts, excl. pleasure
264	Ship repairs
265	Snowmobiles
266	Pleasure boats & sporting craft
267	Small household appliances incl. microwave ovens
268	Electric furnace & other electric heating equip.
269	Household refrigerators & freezers
270	Hhold cooking equipment, excl. microwave ovens
271	Radio, television, VCR & unrecorded tape
272	Telephone & related equipment incl. facsimile
273	Broadcasting & radio communications equipment
274	Radar & radio navigation equipment
275	Electronic equipment components
276	Electronic alarm & signal systems
277	Welding machinery & equipment
278	Elect. motors, power gen. equip., marine engines
279	Transformers & converters, ballast
280	Industrial electric equipment, incl. safety
281	Batteries
282	Wire & cable, insulated, excl. aluminum
283	Aluminum wire & cable
284	Wiring materials & electrical meters
285	Lighting fixtures, bulbs & tubes
286	Cement
287	Lime
288	Concrete products
289	Ready-mix concrete
290	Bricks & other clay building products
291	Porcelain insulators
292	Ceramic household products

293	Refractory products
294	Natural stone products
295	Gypsum building products
296	Mineral wool building products
297	Asbestos products
298	Other non-metallic mineral basic products
299	Glass and other glass products
300	Glass containers
301	Mirrors & glass household products
302	Abrasive products
303	Motor gasoline
304	Diesel & fuel oil, aviation fuel
305	Lubricating oils & greases
306	Benzene, toluene & xylene
307	Liquid petroleum gases, incl. natural gas
308	Naphtha
309	Asphalt compound & other asphalt products
310	Petrochemical feed stock
311	Fertilizers
312	Polymers
313	Cellulosic plastic film & sheet
314	Monoethylene glycol
315	Pharmaceuticals
316	Paints & related products
317	Refined vegetable oils
318	Oral care products
319	Soaps, detergents & other cleaning products
320	Other industrial chemical preparations
321	Personal care products, bleach & fabric softeners
322	Chlorine
323	Oxygen
324	Phosphorous
325	Other chemical elements
326	Sulphuric acid
327	Other inorganic acids & oxygen compounds
328	Ammonia
329	Caustic soda
330	Sodium chlorate
331	Sodium phosphates
332	Sodium carbonate
333	Other metallic salts & peroxysalts
334	Deuterium oxide, radioactive & other inorg. chem.
335	Ethylene

336	Butylenes
337	Butadiene
338	Styrene
339	Vinyl chloride
340	Other hydrocarbons & derivatives
341	Methyl alcohol
342	Other alcohols & derivatives
343	Ethers, alcohol peroxides, etc.
344	Other phenols, aldehydes & ketones
345	Organic acids & derivatives
346	Organo-inorganic compounds
347	Other organic chemicals
348	Titanium dioxide, excl. slag
349	Carbon
350	Pigments & dyes
351	Synthetic rubber
352	Antifreezing preparations
353	Additives & automobile chemicals
354	Rubber & plastic compounding agents
355	Explosives & non-military ammunition
356	Military ammunition & ordnance
357	Crude vegetable materials & extracts
358	Insecticides & herbicides
359	Adhesives
360	Catalysts
361	Metal working chemicals
362	Printing & other inks
363	Polish, cream & wax products
364	Other oils, fats & waxes
365	Aircraft & nautical navig. instruments, excl. radio
366	Measuring, photo, medical & scientific instruments
367	Industrial safety equipment
368	Watches, clocks, etc.
369	Photographic & photocopy equip., film & plate
370	Jewelry, silverware, flatware, etc.
371	Brooms, brushes, mops, etc.
372	Bicycles
373	Recreational equipment
374	Toys & games, incl. electronic
375	Impregnated & coated fabrics
376	Floor & wall covering excl. vinyl
377	Advertising signs, displays, etc.
378	Shades & blinds

379	Other custom work
380	Animal hair, fur dyeing, etc.
381	Other metal end products
382	Sewing needs
383	Recordings, musical instr., artists' supplies, etc.
384	Art & decorative goods, misc. end products
385	Repair construction
386	Residential construction
387	Non-residential building construction
388	Road, highway & airport runway construction
389	Gas & oil facility construction
390	Electric power, dams & irrigation construction
391	Railway & telecommunications construction
392	Other engineering construction
393	Air transportation
394	Ambulance, school bus & other transportation
395	Other services incidental to transport
396	Water transport
397	Services incidental to water transport
398	Railway transportation
399	Truck transportation
400	Bus transport, interurban & rural
401	Urban transit
402	Taxicab transportation
403	Pipeline transportation
404	Highway and bridge maintenance
405	Storage & warehousing
406	Radio & television broadcasting, incl. cable
407	Telephone & other telecommunications
408	Postal services
409	Electric power
410	Gas distribution
411	Coke
412	Water and other utilities
413	Wholesaling margins
414	Repair service for machinery & equipment
415	Rental of office equipment
416	Retailing margins & service
417	Imp. serv. charge, banks & oth. dep. acc. intermed.
418	Oth. financial intermed. & real est (non-rent) serv.
419	Insurance
420	Gross imputed rent
421	Gross paid residential rent

---

422	Other rent
423	Private education services
424	Private hospital services
425	Other health & social services
426	Motion picture, audio & video services
427	Other recreational services
428	Engineering, scientific, accounting & legal services
429	Advertising services
430	Laundry and dry cleaning
431	Accommodation services
432	Meals
433	Personal services
434	Photographic services
435	Services to buildings & dwellings
436	Software development, computer service & rental
437	Other services to business & persons
438	Rental of automobiles & trucks
439	Membership organization dues (excl. religious)
440	Rental, video & rec. equip., oth. mach. & equip.
441	Spare parts & maintenance supplies
442	Office supplies
443	Cafeteria supplies
444	Transportation margins
445	Laboratory equipment & supplies
446	Travelling and entertainment
447	Advertising & promotion
448	Religious organizations services
449	Welfare organizations services
450	Non-profit sports & recreation services
451	Non-profit educational services
452	Other non-profit services
453	Government funding of hospitals
454	Government funding of residential care
455	Government funding of universities
456	Government funding of other education
457	Defence services
458	Other municipal government services
459	Other provincial government services
460	Other federal government services
461	O
462	Raw cotton
463	Natural rubber & gums
464	Raw sugar

---

465	Cocoa beans	
466	Coffee, not roasted	
467	Tropical fruit	
468	Unallocated imports & exports	
469	Sales of other government services	
470	Indirect taxes on products	
471	Subsidies on products	
472	Indirect taxes on production	
473	Wages and salaries	
474	Supplementary labour income	
475	Mixed income	
476	Other operating surplus	