



Service Price Indexes

Prices Division

Indices des prix des services

Division des prix

Vol. 1, no. 1

Highlights

Consulting Engineering Services Price Indexes

1997 (preliminary)

- Prices for consulting engineering services rose 1.2% between 1996 and 1997 (Text Table I). A 2.5% advance in prices charged to foreign clients bolstered the domestic price increase of 1.1%.
- The rise in domestic prices was largely due to two fields of specialization: oil, petroleum and natural gas (+4.3%); and mining, metallurgy, and primary metals (+4.1%).
- Regionally, the largest contributors to the increase were Alberta (+3.2%), British Columbia (+1.4%) and the Atlantic provinces (+2.1%) (see Text Table II).

May 1999

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Vol. 1, n° 1

Faits saillants

Indices des prix des services d'ingénierie conseil

1997 (données provisoires)

- Les prix de services d'ingénierie conseil ont monté de 1,2 % entre 1996 et 1997 (Tableau explicatif 1). Une augmentation de 2,5 % des prix facturés aux clients étrangers a soutenu la hausse de 1,1 % des prix domestiques.
- L'augmentation des prix domestiques était surtout attribuable à deux domaines d'activité : l'huile, le pétrole et le gaz naturel (+4,3 %); les mines, la métallurgie et les métaux primaires (+4,1 %).
- Au niveau régional, les plus fortes contributions à l'augmentation sont venues de l'Alberta (+3,2 %), de la Colombie-Britannique (+1,4 %) et des provinces de l'Atlantique (+2,1 %) (voir tableau explicatif II).

Mai 1999

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Text Table I

Consulting Engineering Services Price Indexes (CEPI) by Market (Canada and Foreign) and by Field of Specialization, 1992=100

Tableau explicatif I

Indices des prix des services d'ingénierie conseil (IPIC) par marché (Canada et étranger) et domaine d'activité, 1992=100

| | 1996 ^r | 1997 ^p | % change Variation en % |
|--|-------------------|-------------------|-------------------------------|
| Total Engineering, All Markets – Total ingénierie, tous les marchés | 104.4 | 105.7 | 1.2 |
| Total Engineering, Canada – Total ingénierie, Canada | 103.0 | 104.1 | 1.1 |
| Buildings – Bâtiments | 105.4 | 104.7 | -0.7 |
| Transportation – Transport | 103.5 | 103.0 | -0.5 |
| Municipal Services – Services municipaux | 100.0 | 100.1 | 0.1 |
| Environmental Services – Services environnementaux | 105.5 | 109.0 | 3.3 |
| Industrial Services – Services industriels | 103.7 | 106.1 | 2.3 |
| Mining, metallurgy and primary metals – Mines, métallurgie et métaux primaires | 105.2 | 109.5 | 4.1 |
| Pulp and paper – Pâtes et papiers | 95.6 | 97.5 | 2.0 |
| Oil, petroleum and natural gas – Huile, pétrole et gaz naturel | 105.6 | 110.1 | 4.3 |
| Power generation and transmission – Production et transport d'énergie électrique | 102.7 | 103.5 | 0.8 |
| Other industrial services – Autres services industriels | 111.0 | 109.2 | -1.6 |
| Other engineering services – Autres services d'ingénieries | 98.8 | 98.7 | -0.1 |
| Total Engineering, Foreign Market – Total ingénierie, marché étranger | 114.0 | 116.9 | 2.5 |

Text Table II

Consulting Engineering Services Price Indexes by Market and Field of Specialization, 1992=100

Tableau explicatif II

Indices des prix des services d'ingénierie conseil par marché et domaine d'activité, 1992=100

| | 1996 ^r | 1997 ^p | % change Variation en % | Contribution to % change ¹ Contribution à la variation en % ¹ |
|---|-------------------|-------------------|-------------------------------|---|
| Total Engineering, Canada – Total ingénierie, Canada | 103.0 | 104.1 | 1.1 | 1.0 |
| Atlantic – Atlantique | 105.5 | 107.7 | 2.1 | 0.2 |
| Quebec – Québec | 100.7 | 100.9 | 0.2 | 0.0 |
| Ontario | 101.8 | 101.7 | -0.1 | 0.0 |
| Manitoba / Saskatchewan | 97.3 | 98.3 | 1.0 | 0.1 |
| Alberta | 106.8 | 110.2 | 3.2 | 0.5 |
| British Columbia – Colombie-Britannique | 109.4 | 110.9 | 1.4 | 0.2 |

¹ These percentages show the amount by which each regional index would move the total Canada index in the absence of change in all other regional indexes.

¹ Ces pourcentages indiquent le montant par lequel chaque indice régional aurait affecté l'indice d'ensemble du Canada si aucun des autres indices régionaux n'avait changé.

Consulting Engineering Services Price Indexes

Technical Note

(Matrices 2047, 2048 and 2049: 1992=100, annually since 1989)

Introduction

The consulting engineering services price indexes (CEPI) measure changes in the prices of services provided by consulting engineers. These services encompass advisory and design work as well as construction or project management. They are provided for many types of projects (fields of specialization), and to both Canadian and foreign clients. Price indexes are published for 10 fields of specialization as well as for national, regional, and foreign markets.

Characteristics

General:

These indexes are produced from annual wage and financial data collected from a sample of consulting engineering firms in Canada. Total price indexes (column A) are calculated as the product of wage rate and realized net multiplier indexes (mark-up). The composition of the total price index reflects how firms structure their service contracts. The wage rate and realized net multiplier indexes are published separately in Columns B and C. These indexes provide information on the source of change in the prices of consulting engineering services over time.

Pricing Information Used:

Changes in Wage Rates:

Wage rate indexes are produced from data on the average annual change in wage rates paid to those whose time is charged directly to consulting engineering contracts. These indexes measure changes in the value of the wage component of contracts over time.

Realized Net Multiplier:

Realized net multipliers are calculated as the ratio of total revenue from consulting engineering contracts at fiscal year-end to all expenses incurred to complete these contracts. The multiplier indexes measure changes in the profitability of consulting engineering activities in each market and field of specialization.

Derivation of Weights:

Weights are derived from fee income data from the Survey of Consulting Engineers (Catalogue no. 63-234-XPB). The total fee income for each field of specialization is prorated by region using the provincial distribution of new construction expenditures from the Survey on Capital and Repair Expenditures (Catalogue no. 61-223-XIB) and is converted to 1992 price levels. Index weights are revised every two years so that price indexes reflect changes in the relative importance of consulting engineering activity in each field of specialization and region over time.

Indices des prix des services d'ingénierie conseil

Note technique

(Matrices 2047, 2048 et 2049: 1992=100, annuellement depuis 1989)

Introduction

Les indices des prix des services d'ingénierie conseil (IPIC) mesurent les variations de prix des services fournis par les ingénieurs-conseils. Ces services comprennent des services de consultation technique et de conception ainsi que des services de gestion de travaux de construction et de projets. Ils sont offerts pour une variété de projets (domaines d'activité) et pour des clients canadiens et étrangers. Les indices de prix sont publiés pour 10 domaines d'activité et pour les marchés intérieur, régional, et international.

Caractéristiques

Généralités:

Ces indices sont produits à partir des taux de rémunération et des données financières recueillis annuellement auprès de répondants d'entreprises échantillonnées au Canada. Les indices de prix d'ensemble (colonne A) sont calculés en prenant le produit des indices de taux de rémunération et des indices du multiplicateur net réalisé. La composition de l'indice de prix d'ensemble reflète la structure des contrats de service utilisée par les entreprises. Les indices du taux de rémunération et des multiplicateurs nets réalisés sont publiés séparément dans les colonnes B et C. Ces indices fournissent des renseignements sur l'origine du changement des prix des services d'ingénierie conseil à travers le temps.

Information de prix utilisée:

Variation des taux de rémunération:

Les indices de taux de rémunération sont produits à partir de la variation moyenne annuelle du taux de rémunération qui est versé à la main-d'oeuvre liée directement aux contrats de service d'ingénierie conseil. Ces indices mesurent à travers le temps les variations du taux de rémunération, composante importante des contrats.

Multiplicateur net réalisé:

Les multiplicateurs nets réalisés sont calculés en divisant les revenus totaux provenant des contrats de service d'ingénierie conseil à la fin de l'exercice financier par les dépenses encourues pour terminer ces contrats. Les indices des multiplicateurs mesurent les variations du taux de rentabilité des activités d'ingénierie conseil par marché et par domaine d'activité.

Calcul des pondérations:

Les pondérations proviennent des honoraires de l'Enquête auprès des ingénieurs conseils (n° 63-234-XPB au catalogue). Les honoraires totaux pour chaque domaine d'activité sont distribués au pro rata par région en utilisant la distribution provinciale des dépenses de construction neuve de l'Enquête des dépenses d'immobilisations et réparations (n° 61-223-XIB au catalogue) et sont convertis au niveau des prix de 1992. Ces pondérations sont révisées tous les deux ans afin de s'assurer que les indices reflètent bien les variations en importance des activités d'ingénierie conseil dans chaque domaine d'activité et région à travers le temps.

Index Formula

At the most detailed level, price indexes are calculated as chained, unweighted geometric averages of the data received from respondents. With the exception of indexes for the industrial fields of specialization, a Chain-Laspeyres index formula is used to calculate indexes at the total region, Canada and all market levels. Indexes for each industrial field of specialization are calculated at the Canada level only using a geometric mean formula. Composite indexes for industrial services by region differ because the mix of industrial projects varies from one regional market to another.

Revisions

The most recent 2 years of published indexes are subject to revision.

For Further Reading

Architectural, Engineering and Scientific Services in Canada, annual, Catalogue no. 63-234-XPB.

Capital Expenditures by type of asset, Catalogue no. 61-223-XIB.

For further information, please contact Jennifer Winters (613) 951-3373 or François Bordé (613) 951-3370, Internet e-mail: wintjen@statcan.ca or bordfra@statcan.ca, Prices Division, Statistics Canada, Ottawa, K1A 0T6.

Formule de l'indice

Au niveau le plus détaillé, les indices de prix sont calculés en enchaînant les moyennes géométriques non-pondérées des chiffres fournis par les répondants. À l'exception des indices pour les domaines d'activité industriels, une formule d'indice en chaîne de Laspeyres sert à calculer les indices totaux pour les régions, pour le Canada et pour tous les marchés. L'indice pour chaque domaine d'activité industriel est calculé au niveau du Canada seulement en utilisant la formule de la moyenne géométrique. Les indices composites des services industriels pour chaque région diffèrent en raison de la variété des projets industriels d'un marché régional à l'autre.

Révisions

Les 2 indices annuels les plus récents font l'objet d'une révision.

Lectures suggérées

Bureaux d'architectes, d'ingénieurs-conseils, et de services scientifiques au Canada, annuel, n° 63-234-XPB au catalogue.

Dépenses en immobilisations par type d'actif, n° 61-223-XIB au catalogue.

Pour plus de renseignements, communiquer avec Jennifer Winters au (613) 951-3373 ou François Bordé au (613) 951-3370, courrier Internet électronique: wintjen@statcan.ca ou bordfra@statcan.ca, Division des prix, Statistique Canada, Ottawa, K1A 0T6.

Definitions

Fields of Specialization

Consulting engineers work on projects in many fields of specialization. The types of projects included in each field are listed below.

Buildings

- Structural, mechanical and electrical engineering for the construction, repair or renovation of commercial, institutional, large multi-unit residential and other non-industrial buildings;
- Building science;
- Landscaping or architectural design for buildings.

Transportation

- Construction or repair of structures for air, rail, water, and land transportation (except shipbuilding and aerospace);
- Transportation-related studies and planning.

Municipal Services

- Water supply and treatment, storm water control;
- Sewage treatment, waste disposal;
- Urban /regional planning and development;
- Construction of municipal facilities (community facilities, lights, parking, etc.).

Environmental Services

- Environmental monitoring and impact assessment studies;
- Development of standards for environmental protection;
- Pollution control and hazardous or dangerous waste management;
- Meteorology, oceanography, permafrost engineering.

Mining, Metallurgy and Primary Metals

- Exploration, extraction and processing of metallic and non-metallic minerals.

Pulp & Paper

- Forest management;
- Extraction and processing of forest resources.

Oil, Petroleum, and Natural Gas

- Exploration, extraction, processing and distribution of oil and gas resources.

Power Generation and Transmission

- Power generation and transmission;
- Studies in energy use or conservation and in the use of alternative energy sources.

Other Industrial Services

- Construction, renovation or repair of industrial plants and buildings;
- Development of manufacturing processes;
- Communications, computer technology, electronics, and materials handling.

Other Engineering Services

- Agriculture and rural development, fisheries, shipbuilding, aerospace engineering, surveying, geology and geophysics, and construction technology.

Définitions

Domaines d'activité

Les ingénieurs-conseils réalisent des projets provenant de plusieurs domaines d'activité. Les différents genres de projet par domaine sont énumérés ci-dessous.

Bâtiments

- Génie structurel, mécanique et électrique pour la construction, la réparation ou la rénovation de bâtiments commerciaux et institutionnels, de grands immeubles résidentiels à logements multiples et d'autres bâtiments non-industriels;
- Science du bâtiment;
- Conception paysagiste ou architecturale pour des bâtiments.

Transports

- Construction ou réparation des structures pour le transport aérien, ferroviaire, maritime et routier (excluant la construction navale et aérospatiale);
- Études de planification et autres études sur les transports.

Services municipaux

- Approvisionnement en eau, traitement des eaux, régulation des eaux pluviales;
- Épuration des eaux usées, élimination des déchets;
- Planification et développement urbain / régional;
- Construction d'installations municipales (équipements collectifs, éclairage urbain, stationnements etc.).

Services environnementaux

- Surveillance de l'environnement et études d'impact;
- Élaboration de normes pour la protection de l'environnement;
- Lutte contre la pollution et gestion des déchets toxiques et dangereux;
- Météorologie, océanographie, génie du pergélisol.

Mines, métallurgie et métaux primaires

- Exploration, extraction et traitement des minerais métalliques et non métalliques.

Pâtes et papier

- Aménagement des forêts;
- Extraction et transformation des ressources forestières.

Huile, pétrole et gaz naturel

- Exploration, extraction, transformation et distribution des ressources pétrolières et de gaz.

Production et transport d'énergie électrique

- Production et transport d'énergie électrique;
- Études sur la consommation et l'économie d'énergie et sur l'utilisation d'autres sources d'énergie.

Autres services industriels

- Construction, rénovation ou réparation d'usines et de bâtiments industriels;
- Mise au point de procédés de fabrication;
- Communications, technologie informatique, électronique et manutention des matériaux.

Autres services d'ingénierie-conseil

- Agriculture et développement rural, pêche, construction navale, génie aérospatial, arpentage, géologie et géophysique, et technologie de la construction.

Table 1.1

Consulting Engineering Services Price Indexes (CEPI) by Market (Canada and Foreign) and by Field of Specialization, 1992=100

Tableau 1.1

Indices des prix des services d'ingénierie conseil (IPIC) par marché (Canada et étranger) et par domaine d'activité, 1992=100

| | | | Year | Total | Wage Rate | Realized Net Multiplier |
|--|--|--|-------------|--------------|------------------------|---------------------------|
| | | | Année | A Total | B Taux de rémunération | C Multiplicateur net réel |
| Total Engineering, Canada - Total ingénierie, Canada | | | 1993 | 101.0 | 101.7 | 99.3 |
| | | | 1994 | 101.6 | 103.5 | 98.1 |
| | | | 1995 | 102.8 | 105.8 | 97.1 |
| A D 496200 | | | 1996 | 103.0 | 108.0 | 95.4 |
| B D 496305 | | | 1997 | 104.1 | 110.3 | 94.3 |
| C D 496410 | | | | | | |
| Buildings - Bâtiments | | | 1993 | 102.3 | 101.2 | 101.0 |
| | | | 1994 | 104.7 | 103.4 | 101.2 |
| | | | 1995 | 103.8 | 105.7 | 98.1 |
| A D 496201 | | | 1996 | 105.4 | 108.4 | 97.3 |
| B D 496306 | | | 1997 | 104.7 | 110.9 | 94.4 |
| C D 496411 | | | | | | |
| Transportation - Transport | | | 1993 | 102.5 | 101.6 | 100.9 |
| | | | 1994 | 102.7 | 103.2 | 99.5 |
| | | | 1995 | 102.6 | 105.4 | 97.4 |
| A D 496204 | | | 1996 | 103.5 | 107.5 | 96.3 |
| B D 496309 | | | 1997 | 103.0 | 109.6 | 94.0 |
| C D 496414 | | | | | | |
| Municipal Services - Services municipaux | | | 1993 | 102.0 | 102.0 | 100.0 |
| | | | 1994 | 102.0 | 103.7 | 98.4 |
| | | | 1995 | 101.8 | 106.0 | 96.1 |
| A D 496207 | | | 1996 | 100.0 | 108.0 | 92.6 |
| B D 496312 | | | 1997 | 100.1 | 110.0 | 91.0 |
| C D 496417 | | | | | | |
| Environmental Services - Services environnementaux | | | 1993 | 98.7 | 101.3 | 97.4 |
| | | | 1994 | 100.9 | 103.3 | 97.7 |
| | | | 1995 | 102.2 | 105.9 | 96.5 |
| A D 496210 | | | 1996 | 105.5 | 108.5 | 97.3 |
| B D 496315 | | | 1997 | 109.0 | 111.0 | 98.2 |
| C D 496420 | | | | | | |
| Industrial Services - Services industriels | | | 1993 | 100.0 | 101.9 | 98.2 |
| | | | 1994 | 100.0 | 103.7 | 96.4 |
| | | | 1995 | 103.3 | 106.1 | 97.4 |
| A D 496211 | | | 1996 | 103.7 | 108.3 | 95.7 |
| B D 496316 | | | 1997 | 106.1 | 110.8 | 95.7 |
| C D 496421 | | | | | | |
| Mining, Metallurgy and Primary Metals - Mines, métallurgie et métaux primaires | | | 1993 | 102.2 | 101.5 | 100.7 |
| | | | 1994 | 103.0 | 102.6 | 100.4 |
| | | | 1995 | 101.9 | 104.5 | 97.6 |
| A D 496212 | | | 1996 | 105.2 | 107.2 | 98.1 |
| B D 496317 | | | 1997 | 109.5 | 110.3 | 99.2 |
| C D 496422 | | | | | | |
| Pulp and Paper - Pâtes et papiers | | | 1993 | 94.8 | 101.1 | 93.7 |
| | | | 1994 | 93.1 | 102.4 | 91.0 |
| | | | 1995 | 96.0 | 105.3 | 91.2 |
| A D 496213 | | | 1996 | 95.6 | 108.0 | 88.5 |
| B D 496318 | | | 1997 | 97.5 | 109.7 | 88.8 |
| C D 496423 | | | | | | |
| Oil, Petroleum and Natural Gas - Huile, pétrole et gaz naturel | | | 1993 | 102.3 | 101.9 | 100.4 |
| | | | 1994 | 101.3 | 103.6 | 97.8 |
| | | | 1995 | 107.3 | 105.5 | 101.7 |
| A D 496214 | | | 1996 | 105.6 | 107.2 | 98.5 |
| B D 496319 | | | 1997 | 110.1 | 110.0 | 100.1 |
| C D 496424 | | | | | | |
| Power Generation and Transmission - Production et transport d'énergie électrique | | | 1993 | 100.4 | 102.5 | 97.9 |
| | | | 1994 | 101.3 | 104.7 | 96.7 |
| | | | 1995 | 101.7 | 107.5 | 94.6 |
| A D 496215 | | | 1996 | 102.7 | 109.7 | 93.6 |
| B D 496320 | | | 1997 | 103.5 | 111.9 | 92.5 |
| C D 496425 | | | | | | |
| Other Industrial Services - Autres services industriels | | | 1993 | 101.2 | 102.4 | 98.8 |
| | | | 1994 | 102.8 | 105.1 | 97.8 |
| | | | 1995 | 110.0 | 107.7 | 102.2 |
| A D 496216 | | | 1996 | 111.0 | 109.7 | 101.2 |
| B D 496321 | | | 1997 | 109.2 | 112.1 | 97.4 |
| C D 496426 | | | | | | |
| Other Engineering Services - Autres services d'ingénieries | | | 1993 | 102.3 | 101.6 | 100.7 |
| | | | 1994 | 102.7 | 103.2 | 99.6 |
| | | | 1995 | 100.5 | 104.7 | 96.1 |
| A D 496217 | | | 1996 | 98.8 | 106.3 | 93.0 |
| B D 496322 | | | 1997 | 98.7 | 108.2 | 91.3 |
| C D 496427 | | | | | | |
| Total Engineering, Foreign Market - Total ingénierie, marché étranger | | | 1993 | 102.6 | 102.8 | 99.8 |
| | | | 1994 | 106.6 | 105.0 | 101.6 |
| | | | 1995 | 111.4 | 107.0 | 104.2 |
| A D 496296 | | | 1996 | 114.0 | 109.5 | 104.1 |
| B D 496401 | | | 1997 | 116.9 | 111.6 | 104.7 |
| C D 496506 | | | | | | |
| Total Engineering, All Markets - Total ingénierie, tous les marchés | | | 1993 | 101.2 | 101.8 | 99.4 |
| | | | 1994 | 102.2 | 103.7 | 98.6 |
| | | | 1995 | 103.8 | 105.9 | 98.1 |
| A D 496302 | | | 1996 | 104.4 | 108.1 | 96.6 |
| B D 496407 | | | 1997 | 105.7 | 110.4 | 95.8 |
| C D 496512 | | | | | | |

Table 1.2

**Consulting Engineering Services Price Indexes (CEPI) by
Regional Market and by Field of Specialization, 1992=100**

Tableau 1.2

**Indices des prix des services d'ingénierie conseil (IPIC)
par marché régionaux et par domaine d'activité, 1992=100**

| | Year | Total | Wage Rate | Realized Net Multiplier |
|--|-------|-----------------|---------------------------|---------------------------------|
| | Année | A Total | B Taux de rémunération | C Multiplicateur net réalisé |
| ATLANTIC - ATLANTIQUE | | | | |
| Total Engineering - Ingénierie total | | | | |
| | 1993 | 99.9 | 101.7 | 98.2 |
| | 1994 | 101.9 | 103.2 | 98.7 |
| | 1995 | 104.2 | 105.2 | 99.0 |
| | 1996 | 105.5 | 107.0 | 98.6 |
| | 1997 | 107.7 | 108.9 | 98.9 |
| A | | | | |
| D 496218 | | | | |
| | | B | C | |
| | | D 496323 | D 496428 | |
| Buildings - Bâtiments | 1993 | 101.1 | 100.6 | 100.4 |
| | 1994 | 101.5 | 102.0 | 99.5 |
| | 1995 | 103.3 | 103.5 | 99.8 |
| | 1996 | 101.0 | 104.3 | 96.8 |
| | 1997 | 104.5 | 105.0 | 99.5 |
| A | | | | |
| D 496219 | | | | |
| | | B | C | |
| | | D 496324 | D 496429 | |
| Transportation - Transport | 1993 | x | x | x |
| | 1994 | x | x | x |
| | 1995 | x | x | x |
| | 1996 | x | x | x |
| | 1997 | x | x | x |
| A | | | | |
| D 496222 | | | | |
| | | B | C | |
| | | D 496327 | D 496432 | |
| Municipal Services - Services municipaux | 1993 | 98.7 | 102.0 | 96.8 |
| | 1994 | 103.7 | 103.1 | 100.6 |
| | 1995 | 105.6 | 104.8 | 100.8 |
| | 1996 | 104.0 | 106.3 | 97.8 |
| | 1997 | 103.1 | 108.3 | 95.2 |
| A | | | | |
| D 496225 | | | | |
| | | B | C | |
| | | D 496330 | D 496435 | |
| Environmental Services - Services environnementaux | 1993 | x | x | x |
| | 1994 | x | x | x |
| | 1995 | x | x | x |
| | 1996 | x | x | x |
| | 1997 | x | x | x |
| A | | | | |
| D 496228 | | | | |
| | | B | C | |
| | | D 496333 | D 496438 | |
| Industrial Services - Services industriels | 1993 | 100.5 | 101.9 | 98.6 |
| | 1994 | 100.3 | 103.7 | 96.7 |
| | 1995 | 103.3 | 106.1 | 97.3 |
| | 1996 | 103.8 | 108.4 | 95.8 |
| | 1997 | 106.5 | 111.0 | 96.0 |
| A | | | | |
| D 496229 | | | | |
| | | B | C | |
| | | D 496334 | D 496439 | |
| QUEBEC - QUÉBEC | | | | |
| Total Engineering - Ingénierie total | | | | |
| | 1993 | 101.4 | 101.8 | 99.6 |
| | 1994 | 101.9 | 103.4 | 98.5 |
| | 1995 | 100.8 | 105.6 | 95.4 |
| | 1996 | 100.7 | 108.0 | 93.2 |
| | 1997 | 100.9 | 110.0 | 91.7 |
| A | | | | |
| D 496231 | | | | |
| | | B | C | |
| | | D 496336 | D 496441 | |
| Buildings - Bâtiments | 1993 | 103.4 | 102.0 | 101.3 |
| | 1994 | 107.1 | 103.7 | 103.3 |
| | 1995 | 104.4 | 105.6 | 98.8 |
| | 1996 | 103.9 | 107.8 | 96.4 |
| | 1997 | 98.1 | 109.4 | 89.6 |
| A | | | | |
| D 496232 | | | | |
| | | B | C | |
| | | D 496337 | D 496442 | |
| Transportation - Transport | 1993 | 102.0 | 101.7 | 100.3 |
| | 1994 | 101.0 | 103.3 | 97.8 |
| | 1995 | 96.0 | 105.0 | 91.4 |
| | 1996 | 97.6 | 107.8 | 90.5 |
| | 1997 | 98.9 | 110.1 | 89.9 |
| A | | | | |
| D 496235 | | | | |
| | | B | C | |
| | | D 496340 | D 496445 | |
| Municipal Services - Services municipaux | 1993 | 101.5 | 101.6 | 99.9 |
| | 1994 | 99.5 | 103.2 | 96.5 |
| | 1995 | 95.8 | 104.8 | 91.4 |
| | 1996 | 90.3 | 106.7 | 84.6 |
| | 1997 | 89.3 | 108.6 | 82.2 |
| A | | | | |
| D 496238 | | | | |
| | | B | C | |
| | | D 496343 | D 496448 | |
| Environmental Services - Services environnementaux | 1993 | 94.8 | 101.7 | 93.2 |
| | 1994 | 92.6 | 103.4 | 89.6 |
| | 1995 | 88.6 | 105.1 | 84.3 |
| | 1996 | 90.7 | 107.9 | 84.1 |
| | 1997 | 96.1 | 110.2 | 87.2 |
| A | | | | |
| D 496241 | | | | |
| | | B | C | |
| | | D 496346 | D 496451 | |
| Industrial Services - Services industriels | 1993 | 98.8 | 102.2 | 96.7 |
| | 1994 | 99.0 | 104.1 | 95.1 |
| | 1995 | 100.8 | 106.9 | 94.3 |
| | 1996 | 101.9 | 109.3 | 93.2 |
| | 1997 | 103.7 | 111.7 | 92.8 |
| A | | | | |
| D 496242 | | | | |
| | | B | C | |
| | | D 496347 | D 496452 | |

Table 1.2

**Consulting Engineering Services Price Indexes (CEPI) by
Regional Market and by Field of Specialization, 1992=100**

Tableau 1.2

**Indices des prix des services d'ingénierie conseil (IPIC)
par marché régionaux et par domaine d'activité, 1992=100**

| | | | Year | Total | Wage Rate | Realized Net Multiplier |
|---|-----------------|-----------------|-------------|--------------|---------------------------|---------------------------------|
| | | | Année | A Total | B Taux de rémunération | C Multiplicateur net réalisé |
| ONTARIO | | | | | | |
| Total Engineering - Ingénierie total | | | 1993 | 100.7 | 101.4 | 99.3 |
| | | | 1994 | 101.2 | 103.0 | 98.3 |
| | | | 1995 | 101.9 | 105.2 | 96.9 |
| | | | 1996 | 101.8 | 107.2 | 95.0 |
| | | | 1997 | 101.7 | 109.3 | 93.0 |
| A | B | C | | | | |
| D 496244 | D 496349 | D 496454 | | | | |
| Buildings - Bâtiments | | | 1993 | 100.4 | 100.5 | 100.0 |
| | | | 1994 | 101.5 | 102.4 | 99.1 |
| | | | 1995 | 99.7 | 104.7 | 95.2 |
| | | | 1996 | 100.5 | 107.0 | 94.0 |
| | | | 1997 | 99.1 | 109.5 | 90.6 |
| A | B | C | | | | |
| D 496245 | D 496350 | D 496455 | | | | |
| Transportation - Transport | | | 1993 | 102.5 | 100.9 | 101.6 |
| | | | 1994 | 99.8 | 102.0 | 97.8 |
| | | | 1995 | 101.4 | 103.9 | 97.5 |
| | | | 1996 | 100.4 | 105.5 | 95.1 |
| | | | 1997 | 95.9 | 107.6 | 89.1 |
| A | B | C | | | | |
| D 496248 | D 496353 | D 496458 | | | | |
| Municipal Services - Services municipaux | | | 1993 | 101.8 | 101.1 | 100.7 |
| | | | 1994 | 100.5 | 102.0 | 98.5 |
| | | | 1995 | 99.8 | 104.2 | 95.7 |
| | | | 1996 | 98.7 | 106.3 | 92.9 |
| | | | 1997 | 98.8 | 108.0 | 91.5 |
| A | B | C | | | | |
| D 496251 | D 496356 | D 496461 | | | | |
| Environmental Services - Services environnementaux | | | 1993 | 99.4 | 101.3 | 98.1 |
| | | | 1994 | 100.5 | 103.0 | 97.5 |
| | | | 1995 | 102.3 | 105.6 | 96.9 |
| | | | 1996 | 106.1 | 108.1 | 98.2 |
| | | | 1997 | 110.1 | 110.6 | 99.5 |
| A | B | C | | | | |
| D 496254 | D 496359 | D 496464 | | | | |
| Industrial Services - Services industriels | | | 1993 | 99.2 | 102.2 | 97.1 |
| | | | 1994 | 99.4 | 104.1 | 95.4 |
| | | | 1995 | 102.6 | 106.7 | 96.1 |
| | | | 1996 | 103.4 | 109.1 | 94.8 |
| | | | 1997 | 104.6 | 111.5 | 93.8 |
| A | B | C | | | | |
| D 496255 | D 496360 | D 496465 | | | | |
| MANITOBA / SASKATCHEWAN | | | | | | |
| Total Engineering - Ingénierie total | | | 1993 | 100.1 | 102.2 | 97.9 |
| | | | 1994 | 95.8 | 104.1 | 92.1 |
| | | | 1995 | 97.3 | 106.5 | 91.4 |
| | | | 1996 | 97.3 | 108.8 | 89.3 |
| | | | 1997 | 98.3 | 111.0 | 88.6 |
| A | B | C | | | | |
| D 496257 | D 496362 | D 496467 | | | | |
| Buildings - Bâtiments | | | 1993 | x | x | x |
| | | | 1994 | x | x | x |
| | | | 1995 | x | x | x |
| | | | 1996 | x | x | x |
| | | | 1997 | x | x | x |
| A | B | C | | | | |
| D 496258 | D 496363 | D 496468 | | | | |
| Transportation - Transport | | | 1993 | x | x | x |
| | | | 1994 | x | x | x |
| | | | 1995 | x | x | x |
| | | | 1996 | x | x | x |
| | | | 1997 | x | x | x |
| A | B | C | | | | |
| D 496261 | D 496366 | D 496471 | | | | |
| Municipal Services - Services municipaux | | | 1993 | 103.9 | 102.8 | 101.0 |
| | | | 1994 | 100.8 | 103.9 | 97.0 |
| | | | 1995 | 105.9 | 106.1 | 99.8 |
| | | | 1996 | 105.0 | 107.8 | 97.4 |
| | | | 1997 | 106.1 | 109.6 | 96.7 |
| A | B | C | | | | |
| D 496264 | D 496369 | D 496474 | | | | |
| Environmental Services - Services environnementaux | | | 1993 | 100.8 | 102.7 | 98.2 |
| | | | 1994 | 98.4 | 106.1 | 92.7 |
| | | | 1995 | 94.0 | 108.7 | 86.5 |
| | | | 1996 | 90.4 | 111.8 | 80.8 |
| | | | 1997 | x | x | x |
| A | B | C | | | | |
| D 496267 | D 496372 | D 496477 | | | | |
| Industrial Services - Services industriels | | | 1993 | 98.3 | 102.0 | 96.3 |
| | | | 1994 | 97.6 | 103.7 | 94.1 |
| | | | 1995 | 100.5 | 106.2 | 94.6 |
| | | | 1996 | 100.7 | 108.5 | 92.8 |
| | | | 1997 | 103.0 | 110.9 | 92.9 |
| A | B | C | | | | |
| D 496268 | D 496373 | D 496478 | | | | |

Table 1.2

**Consulting Engineering Services Price Indexes (CEPI) by
Regional Market and by Field of Specialization, 1992=100**

Tableau 1.2

**Indices des prix des services d'ingénierie conseil (IPIC)
par marché régionaux et par domaine d'activité, 1992=100**

| | Year | Total | Wage Rate | Realized Net Multiplier |
|--|-------|-----------------|---------------------------|---------------------------------|
| | Année | A Total | B Taux de rémunération | C Multiplicateur net réalisé |
| ALBERTA | | | | |
| Total Engineering - Ingénierie total | | | | |
| | 1993 | 101.8 | 102.1 | 99.7 |
| | 1994 | 102.5 | 103.9 | 98.7 |
| | 1995 | 107.0 | 106.0 | 100.9 |
| | 1996 | 106.8 | 108.2 | 98.7 |
| | 1997 | 110.2 | 111.2 | 99.2 |
| A | | | | |
| D 496270 | | | | |
| | | B | C | |
| | | D 496375 | D 496480 | |
| Buildings - Bâtiments | 1993 | 105.3 | 102.2 | 103.1 |
| | 1994 | 101.9 | 103.5 | 98.5 |
| | 1995 | 104.9 | 105.7 | 99.2 |
| | 1996 | 109.4 | 108.7 | 100.7 |
| | 1997 | x | x | x |
| A | | | | |
| D 496271 | | | | |
| | | B | C | |
| | | D 496376 | D 496481 | |
| Transportation - Transport | 1993 | 104.7 | 102.2 | 102.5 |
| | 1994 | 108.1 | 103.7 | 104.2 |
| | 1995 | 104.2 | 105.7 | 98.5 |
| | 1996 | 100.8 | 107.6 | 93.7 |
| | 1997 | 102.3 | 110.3 | 92.8 |
| A | | | | |
| D 496274 | | | | |
| | | B | C | |
| | | D 496379 | D 496484 | |
| Municipal Services - Services municipaux | 1993 | 101.6 | 103.0 | 98.6 |
| | 1994 | 105.4 | 105.0 | 100.4 |
| | 1995 | 100.1 | 106.8 | 93.7 |
| | 1996 | 103.8 | 108.6 | 95.5 |
| | 1997 | 108.1 | 111.4 | 97.0 |
| A | | | | |
| D 496277 | | | | |
| | | B | C | |
| | | D 496382 | D 496487 | |
| Environmental Services - Services environnementaux | 1993 | 101.7 | 102.7 | 99.0 |
| | 1994 | 107.7 | 105.2 | 102.4 |
| | 1995 | 111.7 | 108.4 | 103.1 |
| | 1996 | 117.3 | 111.7 | 105.0 |
| | 1997 | 123.6 | 116.7 | 105.9 |
| A | | | | |
| D 496280 | | | | |
| | | B | C | |
| | | D 496385 | D 496490 | |
| Industrial Services - Services industriels | 1993 | 101.9 | 101.6 | 100.3 |
| | 1994 | 101.6 | 103.3 | 98.4 |
| | 1995 | 107.3 | 105.2 | 102.1 |
| | 1996 | 106.2 | 106.9 | 99.3 |
| | 1997 | 110.1 | 109.6 | 100.4 |
| A | | | | |
| D 496281 | | | | |
| | | B | C | |
| | | D 496386 | D 496491 | |
| BRITISH COLUMBIA - COLOMBIE-BRITANNIQUE | | | | |
| Total Engineering - Ingénierie total | | | | |
| | 1993 | 102.3 | 102.2 | 100.1 |
| | 1994 | 105.0 | 104.8 | 100.2 |
| | 1995 | 107.5 | 107.7 | 99.9 |
| | 1996 | 109.4 | 110.4 | 99.1 |
| | 1997 | 110.9 | 113.1 | 98.1 |
| A | | | | |
| D 496283 | | | | |
| | | B | C | |
| | | D 496388 | D 496493 | |
| Buildings - Bâtiments | 1993 | 104.8 | 102.4 | 102.4 |
| | 1994 | 111.1 | 106.1 | 104.7 |
| | 1995 | 111.4 | 109.3 | 101.9 |
| | 1996 | 116.9 | 113.0 | 103.5 |
| | 1997 | 119.5 | 116.6 | 102.4 |
| A | | | | |
| D 496284 | | | | |
| | | B | C | |
| | | D 496389 | D 496494 | |
| Transportation - Transport | 1993 | 105.5 | 102.4 | 103.0 |
| | 1994 | 106.7 | 105.2 | 101.4 |
| | 1995 | 108.8 | 108.6 | 100.2 |
| | 1996 | 112.1 | 111.3 | 100.7 |
| | 1997 | 113.6 | 114.0 | 99.7 |
| A | | | | |
| D 496287 | | | | |
| | | B | C | |
| | | D 496392 | D 496497 | |
| Municipal Services - Services municipaux | 1993 | 103.1 | 103.6 | 99.5 |
| | 1994 | 105.5 | 107.5 | 98.2 |
| | 1995 | 109.0 | 111.6 | 97.7 |
| | 1996 | 107.7 | 114.1 | 94.4 |
| | 1997 | 107.3 | 116.6 | 92.0 |
| A | | | | |
| D 496290 | | | | |
| | | B | C | |
| | | D 496395 | D 496500 | |
| Environmental Services - Services environnementaux | 1993 | 104.8 | 103.0 | 101.7 |
| | 1994 | 113.0 | 106.4 | 106.2 |
| | 1995 | 118.7 | 110.0 | 107.9 |
| | 1996 | 119.6 | 113.8 | 105.1 |
| | 1997 | 118.8 | 116.4 | 102.1 |
| A | | | | |
| D 496293 | | | | |
| | | B | C | |
| | | D 496398 | D 496503 | |
| Industrial Services - Services industriels | 1993 | 100.7 | 101.6 | 99.1 |
| | 1994 | 100.9 | 103.3 | 97.7 |
| | 1995 | 103.5 | 105.5 | 98.0 |
| | 1996 | 104.5 | 107.9 | 96.9 |
| | 1997 | 107.1 | 110.5 | 96.9 |
| A | | | | |
| D 496294 | | | | |
| | | B | C | |
| | | D 496399 | D 496504 | |