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Highlights

- In the second quarter 2005, the telecommunications industry contributed \$13.2 billion (1997 constant dollars) to Canadian gross domestic product (GDP), accounting for 2.5% of total economy GDP. (STC, CANSIM II Table 379-0018).
- The wireless telecommunications industry recruited 438,000 new customers from March to June this year and had 15.5 million subscribers at the end of that period, up 12.6% from the same period last year.
- These new customers enabled the wireless industry to achieve record revenues in the second quarter of 2005. Operating revenues jumped 16.1% compared to the second quarter of 2004, reaching \$2.7 billion.
- ▶ The wireless industry accounted for more than 30% of the revenues of the telecommunications services sector in the second quarter, compared to barely 15% five years earlier.
- ▶ Wireless operating profits reached \$742 million in the second quarter of 2005, up 12.8% compared to the same period in 2004. This is the second best quarterly result in the past five years, closely following the result registered in the third quarter of 2004.
- While the wireless market is booming, the traditional wireline market is in decline. At the end of the second quarter of 2005, there were 19.2 million traditional residential and business lines, down 1.4% from the end of the second quarter of 2004.
- These changes had an impact on the financial performance of operators of traditional wireline systems. The most recent results confirm the marked downward trend in the revenues of this sector. They stood at \$5.5 billion in the second quarter, down 2.8% from the second quarter of 2004.

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Symbols

The following standard symbols are used in Statistics Canada publications:

- . not available for any reference period
- .. not available for a specific reference period
- ... not applicable
- 0 true zero or a value rounded to zero
- 0s value rounded to 0 (zero) where there is a meaningful distinction between true zero and the value that was rounded
- p preliminary
- revised figures
- x supressed to meet the confidentiality requirements of the Statistics Act
- ^E use with caution
- F too unreliable to be published

Abbreviations

n.e.c. not elsewhere classifiedFTE Full-time equivalentsVGE Voice-grade equivalents

North American Industry Classification System - NAICS (catalogue 12-501-XPE)

517	Telecommunications
5171	Wired Telecommunications
5172	Wireless Telecommunications
5173	Telecommunication Resellers
5174	Satellite Telecommunications (including Satellite Resellers)
5179	Other Telecommunications Services

Analytical overview

National and industry indicators

The telecommunications industry's **operating revenues** were \$8.6 billion in the second quarter of 2005 – an increase of 2.7% over the second quarter of 2004. Facilities-based wireline telecommunications services accounted for 64.6% of total industry operating revenues, while wireless, resellers, satellite, and other services accounted for 35.4% of the second quarter total. The 64.6% share of wireline carriers was lower than in the previous year, continuing a trend that began in the late 90s.

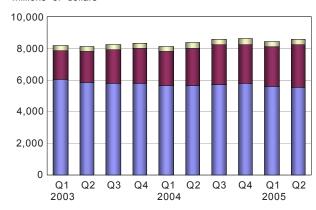
Operating revenues in the wireline industry totalled \$5.5 billion in the second quarter, a decrease of 2.8% from the previous year. Operating revenues in the wireless industry have been far more buoyant than in the wireline industry. At \$2.7 billion this quarter, operating revenues are up 16.1% from what was reported one year ago.

The industry's operating profit was \$1.9 billion in the second quarter, or 22.3% of operating revenues. The operating profit margin was higher in the wireless industry (27.6%) than in the wireline industry (19.8%).

Capital expenditures for the telecommunications industry reached \$1.5 billion, 7.2% higher than what was reported in the second quarter of last year. The wireline and wireless industries had capital outlays of \$1.104 million and \$391 million, respectively, representing 20.0% and 14.5% of second quarter operating revenues (Figure 2). The overall 7.2% increase in capital expenditures is largely the result of the 21.2% increase in expenditures by the wireless industry.

Figure 1 **Total operating revenue** (\$8.6 billion)

millions of dollars



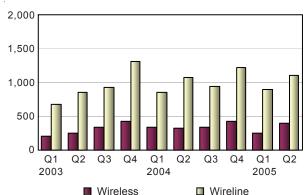
- Other
- Wireless (mobile) telecommunications
- Wireline telecommunications

Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Figure 2

Capital expenditures (\$1.5 billion)

millions of dollars



Source: Statistics Canada, Quarterly Survey of Telecommunications,

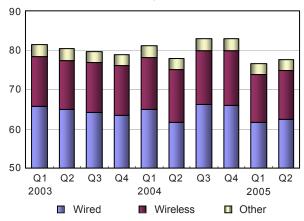
There were 77,667 **full-time employees** this quarter, a 0.4% decrease from the second quarter of 2004 (Figure 3). Since the second quarter last year, employment in the wireline industry increased by 727 full-time positions, and the wireless industry lost 999 full-time employees. **Average annual labour costs** (wages, salaries and benefits) per employee (full-time equivalent) were \$78,276 for the wireline industry and \$75,368 for the wireless industry.

Public-switched telephone network (PSTN) **wireline access** was 18.6 million lines at the end of the second quarter, a decrease of 1.5% from last year's level. This was the fourteenth consecutive quarter of year-over-year decline in wireline access. Since the fourth quarter of 2001 the last period to register an increase in access lines, PSTN wireline access has decreased 6.1%. Residential lines accounted for 66.0% of the total, essentially unchanged from the previous year. (Text Table 1).

Each ISDN (Integrated Service Digital Network) line is capable of providing multiple access paths to the PSTN, based on their enhanced bandwidth. With ISDN lines converted to their voice-grade bandwidth equivalents (ISDN BRA = 2 lines, ISDN PRA = 23 lines), total fixed access this quarter was 19.2 million lines, a 1.4% decrease from what was reported one year ago.

Figure 3
Full-time employment

thousands of full-time employees



Source: Statistics Canada, Quarterly Survey of Telecommunications,

Text table 1

PSTN Network infrastructure - Wired access

	Se	cond quarter, 2	005
PSTN access	Residential	Business	Total
Wired access lines	(NAICS 5171)		
Individual lines	12,001,632	2,718,782	14,720,414
Party lines	43,295	977	44,272
ISDN BRA	38	51,584	51,622
ISDN PRA		29,157	29,157
Public telephones		151,070	151,070
Centrex		2,465,067	2,465,067
Official lines		449,898	449,898
Other		358,655	358,655
Undercoverage estimate	201,282	84,262	285,544
Total - Wired access lines	12,246,247 (66.0%)	6,309,452 (34.0%)	18,555,699 (100.0%)
Total voice-grade equivalents	12,246,285 (63.6%)	7,002,490 (36.4%)	19,248,775 (100.0%)

Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Second quarter mobile telephony subscribers were up 12.6% from last year. At quarter end, there were 15.5 million subscribers, or 48.2 subscribers per 100 inhabitants. Since the first quarter of 1999, the number of mobile telephony subscribers has increased a whopping 174.6%.

Teledensity measures the penetration of telecommunications services in a given population. For the wireline and wireless industries, there were 59.9 and 48.2 access paths (VGE) per 100 inhabitants, respectively. Total teledensity per 100 inhabitants was 108.1 in the second quarter, an increase of 3.4 % from last year's second quarter figure (Text table 2).

Text table 2

PSTN Network infrastructure - Total access

Teledensity	
Total PSTN access	34,056,317
Total PSTN access (VGE)	34,749,393
Wired access (VGE) per 100 inhabitants	59.8
Wireless access (VGE) per 100 inhabitants	48.2
Total PSTN (VGE) per 100 inhabitants	108.0

Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Paging subscriptions have been decreasing over the last few years, perhaps due to the strong growth in cellular telecommunications, considered to be a substitute for paging. There were less than 1.0 million (960,134) pagers in service in the second quarter, down from 1.1 million subscribers in the second quarter of 2004 (-13.4%).

Long distance **traffic** is nearly completely undertaken via wireline access, which was 14.55 billion minutes this quarter an increase of 8.3% from the second quarter last year. Mobile telephony is still primarily used for local communication. However, long distance wireless usage has increased by 3.3% to an average of 89.1 long distance minutes per subscriber. Total billed minutes rose substantially compared to the second quarter of 2004 (32.7%) to 16.0 billion.

Readers should note that wherever possible, survey undercoverage estimates have been included in the industry tables. Please see the *Concepts and methodology* section for further detail.

Telecommunications industry (NAICS 517)

Summary tables

Table 1. Summary of operating indicators, NAICS 517, quarterly, 2005

	First qua	rter	Second qu	arter	Third quarter	Fourth quarter	Year to	date	
	05/04			05/04	05/04	05/04		05/04	
		%		%	%	%		%	
Financial indicators (\$000)									
Operating revenues	8,431,357	3.5	8,559,911	2.7			16,991,268	3.1	
Operating expenses	6,585,424	2.2	6,653,009	2.9			13,238,433	2.5	
Operating profit	1,845,934	8.7	1,906,902	1.9			3,752,835	5.1	
% of operating revenues	21.9	5.0	22.3	(0.8)			22.1	2.0	
Capital expenditures ¹	1,134,093	(4.6)	1,495,661	7.2			2,629,754	1.8	
Employment (persons)									
Full-time	76,632	(5.4)	77,667	(0.4)					
Part-time	<u>10,176</u>		<u>11,469</u>						
Total	86,808		89,136						
% of national industrial employment ²	0.645		0.634						
Total (full-time equivalents - FTE)	82,394		83,640				•••		
Labour costs (\$000)	1,535,588		1,671,774				3,207,362		
Average labour costs (\$)									
per FTE employee (annualized)	74,549		77,270						
PSTN access paths (fixed and mobile)								
Total	33,764,819	3.8	34,056,317	4.5					
Total (voice-grade equivalents - VGE)	34,456,704	3.7	34,749,393	4.4					
Teledensity (VGE per 100 inhabitants)	107.5	2.9	108.1	3.4					

Due to rounding, figures may not sum exactly to totals.

^{1.} Comprises 5171 (Wireline) and 5172 (Wireless) only.

^{2.} Survey of Employment, Payrolls and Hours (SEPH). The target population is composed of all employers in Canada, except those in agriculture, fishing and trapping, private households services, religious organizations and military personnel of defence services. For further information see Statistics Canada catalogue no. 72-002-XIB.

Table 2A. Summary of operating indicators, (NAICS 5171, 5172, 5173, 4, 9), first quarter, 2005

<u> </u>			· ·	T
NAICS industries	5171	5172	5173, 4, 9	517
		thousands	of dollars	
Operating revenues ¹				
Telecommunications operating revenues	F	2,308,526	**	••
Other operating revenues ²	F	142,261		
Undercoverage estimate	<u>E</u>	<u>31,982</u>	<u>336,804</u>	<u>E</u>
Total	5,611,784	2,482,769	336,804	8,431,357
% of NAICS 517	66.6	29.4	4.0	100.0
Operating expenses				
Telecommunications operating expenses	3,877,985	1,540,442		
Other operating expenses	484,496	266,564		
Undercoverage estimate	<u>122,410</u>	<u>22,832</u>	<u>270,694</u>	<u>415,937</u>
Total	4,484,891	1,829,838	270,694	6,585,424
% of NAICS 517	68.1	27.8	4.1	100.0
Operating profit	1,126,893	652,931	66,110	1,845,934
% of operating revenues	20.1	26.3	19.6	21.9
Non-operating revenues and expenses (survey units o	only)			
Non-operating revenues	60,601	Х		
Non-operating expenses				
Interest expenses	228,288	87,958		
Other	67,221	<u>x</u>		
Total	295,509	x		••
Net income before taxes	891,985	500,089		
EBITDA ³	2,117,871	1,024,407		
Capital expenditures	890,217	243,876		
% of operating revenues	15.9	9.8		
Employment (persons)				
Full-time	61,732	12,130	2,770	76,632
Part-time	<u>6,346</u>	<u>3,656</u>	<u>174</u>	<u>10,176</u>
Total	68,078	15,786	2,944	86,808
% of national industrial employment	0.506	0.117	0.022	0.645
Total (full-time equivalents - FTE)	65,225	14,309	2,860	82,394
Labour costs				
Full-time	1,157,289	227,933	42,560	1,427,782
	<u>65,478</u>	40,946	<u>1,382</u>	<u>107,806</u>
Part-time	00,110			
Part-time Total	1,222,766	268,879	43,943	1,535,588

^{1.} Some data available in previous issues of this publication can no longer be published due to reporting and classification problems. Some of these statistics may be made available if the classification and reporting problems can be resolved.

^{2.} Other includes: terminal equipment rentals; sale of telecommunications goods; directory services; retail internet access; installations; customer repairs and maintenance, etc.

^{3.} EBITDA - Earnings before interest, taxes, depreciation and amortization.

Table 2B. Summary of operating indicators, (NAICS 5171, 5172, 5173, 4, 9), second quarter, 2005

NAICS industries	5171	5172	5173, 4, 9	517	
	•	thousand	s of dollars		
Operating revenues					
Telecommunications operating revenues	F	2,506,670			
Other operating revenues ¹	F	149,838			
Undercoverage estimate	<u>F</u>	<u>34,667</u>	<u>341,978</u>	<u>E</u>	
Total	5,526,758	2,691,175	341,978	8,559,911	
% of NAICS 517	64.6	31.4	4.0	100.0	
Operating expenses					
Telecommunications operating expenses	3,833,685	1,651,072			
Other operating expenses	475,859	273,614			
Undercoverage estimate	120,925	24,319	<u>273,535</u>	418,779	
Total	4,430,469	1,949,005	273,535	6,653,009	
% of NAICS 517	66.6	29.3	4.1	100.0	
Operating profit	1,096,289	742,170	68,443	1,906,902	
% of operating revenues	19.8	27.6	20.0	22.3	
Non-operating revenues and expenses (survey units or	nly)				
Non-operating revenues	71,487	х			
Non-operating expenses					
Interest expenses	225,576	102,749			
Other	<u>62,876</u>	<u>x</u>			
Total	288,452	х			
Net income before taxes	879,324	569,614			
EBITDA ²	2,092,808	1,129,839			
Capital expenditures	1,104,453	391,208			
% of operating revenues	20.0	14.5			
Employment (persons)					
Full-time	62,462	12,398	2,807	77,667	
Part-time	<u>7,757</u>	<u>3,517</u>	<u>196</u>	<u>11,469</u>	
Total	70,219	15,915	3,003	89,136	
% of national industrial employment	0.500	0.113	0.021	0.634	
Total (full-time equivalents - FTE)	66,430	14,311	2,899	83,640	
Labour costs					
Full-time	1,272,726	234,236	46,297	1,553,259	
Part-time	<u>80,852</u>	<u>36,144</u>	<u>1,518</u>	<u>118,515</u>	
Total	1,353,578	270,380	47,815	1,671,774	
	, ,	-,	,	, ,	

¹ Other includes: terminal equipment rentals; sale of telecommunications goods; directory services; retail internet access; installations; customer repairs and maintenance, etc.

² EBITDA - Earnings before interest, taxes, depreciation and amortization.

Table 2C. Summary of operating indicators, (NAICS 5171, 5172, 5173, 4, 9), year to date, 2005

NAICS industries	5171 5172		5173, 4, 9	517
	•	thous	ands of dollars	
Operating revenues				
Telecommunications operating revenues	F	4,815,196		
Other operating revenues ¹	F	292,099	••	
Undercoverage estimate	<u>F</u>	66,649	678,782	<u>E</u>
Total	11,138,542	5,173,944	678,782	16,991,268
% of NAICS 517	65.6	30.5	4.0	100.0
Operating expenses				
Telecommunications operating expenses	7,711,670	3,191,514		
Other operating expenses	960,355	540,178		
Undercoverage estimate	<u>243,335</u>	<u>47,152</u>	544,229	<u>834,716</u>
Total	8,915,360	3,778,844	544,229	13,238,433
% of NAICS 517	67.3	28.5	4.1	100.0
Operating profit	2,223,182	1,395,100	134,553	3,752,835
% of operating revenues	20.0	27.0	19.8	22.1
Non-operating revenues and expenses (survey units on	ly)			
Non-operating revenues	132,088	х		
Non-operating expenses				
Interest expenses	453,864	190,707		
Other	130,097	<u>x</u>		
Total	583,961	x		
Net income before taxes	1,771,309	1,069,702		
EBITDA ²	4,210,679	2,154,245		
Capital expenditures	1,994,671	635,083		
% of operating revenues	17.9	12.3		
Employment (persons)				
Full-time	62,462	12,398	2,807	77,667
Part-time	<u>7,757</u>	<u>3,517</u>	<u>196</u>	<u>11,469</u>
Total	70,219	15,915	3,003	89,136
% of national industrial employment	0.500	0.113	0.021	0.634
Total (full-time equivalents - FTE)	66,430	14,311	2,899	83,640
Labour costs				
Full-time	2,430,015	462,169	88,857	2,981,041
Part-time	146,330	77,090	<u>2,901</u>	226,320
Total	2,576,345	539,259	91,758	3,207,362
Average labour costs (\$) per FTE employee (annualized)	78,276	75,368		77,270

¹ Other includes: terminal equipment rentals; sale of telecommunications goods; directory services; retail internet access; installations; customer repairs and maintenance, etc.

² EBITDA - Earnings before interest, taxes, depreciation and amortization.

Table 3. Summary of analytical indicators, NAICS 5171, 5172, quarterly, 2005¹

NAICS industries		517	'1		5172			
NAICS Industries	I	II	Ш	IV	I	II	III	IV
Financial								
Operating revenue per capita (\$)	174.94	171.92			77.40	83.72		
Operating profit (% of operating revenues)	20.1	19.8			26.3	27.6		
Average revenue per long distance minute (cents) ²	F	F			12.01	12.34		
Average revenue per local minute (cents)					12.44	11.64		
Capital expenditures per capita (\$)	27.75	34.36			7.6	12.17		
Capital expenditures (% of operating revenues)	15.9	20.0			9.8	14.5		
Employment/Labour								
Industry employment as a % of national industrial employment ³	0.506	0.500			0.117	0.113		
Revenue per FTE employee (\$)	86,038	83,197			173,511	188,048		
PSTN access paths per FTE employee ⁴	291	283			1,053	1,083		
Average labour costs (\$) per FTE employee (annualized)	74,988	78,276			75,164	75,368		
Labour costs as a % of operating revenues	21.8	24.5			10.8	10.0		
Teledensity (VGE)								
PSTN access paths per 100 inhabitants	60.5	59.9			47.0	48.2		
Traffic ^{2, 5}								
Local minutes per subscriber					855	951		
Local minutes per capita					400	456		
Long distance minutes per access path (VGE) ⁴	790	786			81	89		
Long distance minutes per capita	459	453			38	43		

^{1.} Some data available in previous issues of this publication can no longer be published due to reporting and classification problems. Some of these statistics may be made available if the classification and reporting problems can be resolved.

^{2.} Long distance minutes include domestic and international calls originating in Canada and toll-free calls for wireline carriers, and billed minutes for wireless carriers

^{3.} Survey of Employment, Payrolls and Hours (SEPH). The target population is composed of all employers in Canada, except those in agriculture, fishing and trapping, trapping, private households services, religious organizations and military personnel of defence services. For further information see Statistics Canada catalogue no. 72-002-XIB.

^{4.} Excludes official lines

^{5.} Calculations do not include undercoverage estimates.

Wired telecommunications carriers (NAICS 5171)

Tables and graphs

Table 4. Operating revenues, NAICS 5171, quarterly, 2005¹

Wired telecommunications	First qua	arter	Second q	ond quarter Third quarter Fourth quarter Year		Third quarter Fourth quarter		Year to d	ear to date	
(NAICS 5171)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Telecommunications operating reve	enues									
Carrier services										
Contribution	F		F						F	
Interconnection	F		F						F	
Circuit rentals	F		F						F	
Other	<u>F</u>		<u>F</u>						<u>F</u>	
Total	F	F	F	F					F	F
Voice services										
Local telephony	F	F	F	F					F	F
Long distance telephony	F	F	F	F					F	F
Calling features	F	F	F	F					F	F
Connection	<u>F</u>	F	<u>F</u>	F					<u>F</u>	F
Total	F	F	F	F					F	F
Data and high speed services										
Narrowband packet-switched	F		F						F	
High speed switched ²	<u>F</u>		<u>F</u>						<u>F</u> F	
Total	F	F	<u>F</u> F	F					F	F
Non-switched services (private lines)										
Narrowband	F		F						F	
High speed	<u>F</u>		<u>F</u>							
Total	F	F	F	F					<u>F</u> F	F
Other telecommunications services	<u>E</u>		<u>E</u>						<u>F</u>	
Total	F	F	F	F					F	F
Other operating revenues										
Terminal equipment rentals	F		F						F	
Sale of telecommunications goods	F F		F F						F F	
	F		F						F	
Directory services Retail Internet services	F		F						F.	
Other services n.e.c.	г <u>Е</u>		г <u>Е</u>						г <u>Е</u>	
		_		_						_
Total	F	F	F	F					F	F
Undercoverage estimate	<u>F</u>		<u>F</u>						<u>F</u>	
Total operating revenues	5,611,784	(1.2)	5,526,758	(2.8)					11,138,542	(2.0)

^{1.} Some data available in previous issues of this publication can no longer be published due to reporting and classification problems. Some of these statistics may be made available if the classification and reporting problems can be resolved.

^{2.} Wideband and broadband circuit- and packet-switched services.

Table 5. Operating expenses, NAICS 5171, quarterly, 2005

	First qu	First quarter		uarter	Third qu	uarter	Fourth q	uarter	Year to d	late
Wired telecommunications (NAICS 5171)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Telecommunications operating e	xpenses									
Carrier services										
Contribution	37,270		34,111						71,381	
Interconnection	438,358		389,502						827,860	
Circuit rentals	150,174		144,917						295,091	
Other	<u>73,717</u>		80,976						<u>154,693</u>	
Total	699,519	(7.0)	649,506	(14.3)					1,349,025	(10.7)
Labour expenses	1,182,143	(5.6)	1,310,806	1.7					2,492,949	(1.9)
Depreciation	990,978	0.7	996,519	0.6					1,987,497	0.7
Other	1,005,345		876,854						1,882,199	
Total	3,877,985	(2.0)	3,833,685	(2.5)					7,711,670	(2.3)
Other operating expenses	484,496	1.6	475,859	(1.6)					960,355	(0.0)
Undercoverage estimate	122,410		120,925						<u>243,335</u>	•••
Total operating expenses	4,484,891	(1.6)	4,430,469	(2.4)					8,915,360	(2.0)

Table 6. Financial and performance indicators, NAICS 5171, quarterly, 2005¹

Wired telecommunications	First quarter		Second q	uarter	Third qu	uarter	Fourth q	uarter	Year to date	
(NAICS 5171)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Operating revenues Operating expenses	5,611,784 4,484,891	(1.2) (1.6)	5,526,758 4,430,469	(2.8) (2.4)					11,138,542 8,915,360	(2.0) (2.0)
Operating profit	1,126,893	0.7	1,096,289	(4.4)					2,223,182	(1.9)
% of operating revenues	20.1	1.9	19.8	(1.6)					20.0	0.1
EBITDA ²	2,117,871	0.7	2,092,808	(2.1)					4,210,679	(0.7)
Revenue performance ³ (\$)										
Operating revenue per capita	174.94	(2.1)	171.92	(3.7)					346.86	(2.9)
Voice services revenue per PSTN line	F	F	F	F					F	F
Local revenue per PSTN line ⁴	F	F	F	F					F	F
Long distance revenue per PSTN line ⁴ Average revenue per	F	F	F	F					F	F
long distance minute (cents)	F	F	F	F					F	F

^{1.} Some data available in previous issues of this publication can no longer be published due to reporting and classification problems. Some of these statistics may be made available if the classification and reporting problems can be resolved.

^{2.} EBITDA - Earnings before interest, taxes, depreciation and amortization.

^{3.} Calculations do not include undercoverage estimates, and where applicable are based on voice-grade equivalent (VGE) PSTN lines.

^{4.} Excludes official telephone lines

Table 7. Employment and labour costs, NAICS 5171, quarterly, 2005

	First quarter		Second q	Second quarter		uarter	Fourth quarter		Year to date	
Wired telecommunications (NAICS 5171)		05/04		05/04		05/04		05/04		05/04
(NAICS 5171)		%		%		%		%		%
Employment (persons)										
Full-time	61,732	(4.8)	62,462	1.2					•••	
Part-time	6,346	(21.9)	<u>7,757</u>	(7.5)						
Total	68,078	(6.7)	70,219	0.1					***	
% of national industrial employment	0.506		0.500							
Total (full-time equivalents - FTE)	65,225	(4.1)	66,430	2.7						
Revenue (\$) per FTE employee	86,038		83,197							
Labour costs ¹										
Full-time	1,157,289	(6.9)	1,272,726	0.3					2,430,015	(3.3)
Part-time	65,478	7.6	80,852	32.6					146,330	20.1
Total	1,222,766	(6.2)	1,353,578	1.8					2,576,345	(2.2)
Average labour costs (\$)										
per FTE employee (annualized)	74,988	(2.1)	78,276	(1.4)						

^{1.} Includes capitalized labour expenditures.

Table 8. Capital expenditures, NAICS 5171, quarterly, 2005

Wind tale a manual attent	First quarter		Second quarter		Third q	uarter	Fourth o	uarter	Year to date	
Wired telecommunications (NAICS 5171)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Capital expenditures	890,217	5.0	1,104,453	3.0					1,994,671	3.9
% of operating revenues per capita (\$)	15.9 27.75	6.2 4.0	20.0 34.36	6.0 2.1					17.9 62.18	6. <i>0</i> 2.9

Wired telecommunications

Fourth quarter

Third quarter

Table 9. Network infrastructure, NAICS 5171, quarterly, 2005

First quarter

19,394,075

64.0

36.0

60.5

100

51.9

291

319,194

(1.2)

(2.1)

	05/04		05/04		05/04		05/04
	%		%		%		%
14,881,124	(1.4)	14,720,414	(1.9)				
45,242	(20.3)	44,272	(20.1)				
52,961	(8.8)	51,622	(9.0)				
29,042	1.0	29,157	1.5				
151,734	(3.2)	151,070	(2.8)				
2,466,350	(1.3)	2,465,067	(1.3)				
445,584	(2.0)	449,898	(0.2)				
344,609	10.7	358,655	15.6				
285,544		285,544					
18,702,190	(1.3)	18,555,699	(1.5)				
66.4		66.0					
33.6		34.0					
	45,242 52,961 29,042 151,734 2,466,350 445,584 344,609 285,544 18,702,190	14,881,124 (1.4) 45,242 (20.3) 52,961 (8.8) 29,042 1.0 151,734 (3.2) 2,466,350 (1.3) 445,584 (2.0) 344,609 10.7 285,544 18,702,190 (1.3)	14,881,124 (1.4) 14,720,414 45,242 (20.3) 44,272 52,961 (8.8) 51,622 29,042 1.0 29,157 151,734 (3.2) 151,070 2,466,350 (1.3) 2,465,067 445,584 (2.0) 449,898 344,609 10.7 358,655 285,544 285,544 18,702,190 (1.3) 18,555,699	14,881,124 (1.4) 14,720,414 (1.9) 45,242 (20.3) 44,272 (20.1) 52,961 (8.8) 51,622 (9.0) 29,042 1.0 29,157 1.5 151,734 (3.2) 151,070 (2.8) 2,466,350 (1.3) 2,465,067 (1.3) 445,584 (2.0) 449,898 (0.2) 344,609 10.7 358,655 15.6 285,544 285,544 18,702,190 (1.3) 18,555,699 (1.5) 66.4 66.0	14,881,124 (1.4) 14,720,414 (1.9) 45,242 (20.3) 44,272 (20.1) 52,961 (8.8) 51,622 (9.0) 29,042 1.0 29,157 1.5 151,734 (3.2) 151,070 (2.8) 2,466,350 (1.3) 2,465,067 (1.3) 445,584 (2.0) 449,898 (0.2) 344,609 10.7 358,655 15.6 285,544 285,544 18,702,190 (1.3) 18,555,699 (1.5)	14,881,124 (1.4) 14,720,414 (1.9) 45,242 (20.3) 44,272 (20.1) 52,961 (8.8) 51,622 (9.0) 29,042 1.0 29,157 1.5 151,734 (3.2) 151,070 (2.8) 2,466,350 (1.3) 2,465,067 (1.3) 445,584 (2.0) 449,898 (0.2) 344,609 10.7 358,655 15.6 285,544 285,544 18,702,190 (1.3) 18,555,699 (1.5)	14,881,124 (1.4) 14,720,414 (1.9) 45,242 (20.3) 44,272 (20.1) 52,961 (8.8) 51,622 (9.0) 29,042 1.0 29,157 1.5 151,734 (3.2) 151,070 (2.8) 2,466,350 (1.3) 2,465,067 (1.3) 445,584 (2.0) 449,898 (0.2) 344,609 10.7 358,655 15.6 285,544 285,544 18,702,190 (1.3) 18,555,699 (1.5)

19,248,775

63.6

36.4

59.9

98

49.9

283

319,915

(1.4)

(2.3)

Second quarter

equivalents (VGE)

PSTN (VGE) per 100 inhabitants

Residential access lines (VGE) per 100 households

Business access lines (VGE)

PSTN access paths (VGE)

per FTE employee²

Total Non-PSTN lines³

per 100 employed persons¹

Residential (%)

Business (%)

^{1.} Employed persons from SEPH estimate of national industrial employment.

^{2.} Excludes official telephone lines.

^{3.} Calculations do not include undercoverage estimates.

Table 10. Long distance traffic, NAICS 5171, quarterly, 2005

Mind 4-1	First quarter		Second quarter		Third quarter		Fourth quarter		Year to date	
Wired telecommunications (NAICS 5171)		05/04		05/04		05/04		05/04		05/04
(NAICO 3171)		%		%		%		%		%

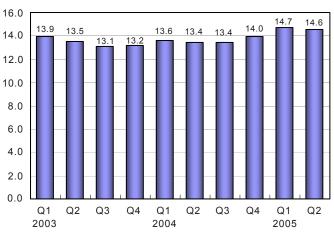
Traffic statistics (thousands of m	inutes) ¹					
Long distance traffic Outbound calls Toll-free calls Inbound calls to Canada Total	8,996,925 F <u>F</u> 14,739,551	8.4	8,872,365 F <u>F</u> 14,550,754	8.3	17,869,290 F <u>F</u> 29,290,305	8.3
Traffic performance (minutes) ¹						
Long distance traffic						
Outbound calls per access line (VGE) ² per capita	482 280		479 276		961 556	
Toll-free calls per access line (VGE) ² per capita	F F		F F		F F	
Inbound calls to Canada per access line (VGE) ² per capita	F F		F F		F F	
Total per access line (VGE) ² per capita	790 459	9.7 7.2	786 453	9.9 7.3	1,576 912	9.8 7.3

^{1.} Calculations do not include undercoverage estimates.

^{2.} Excludes official telephone lines.

Figure 4
Wireline traffic - Total long distance minutes

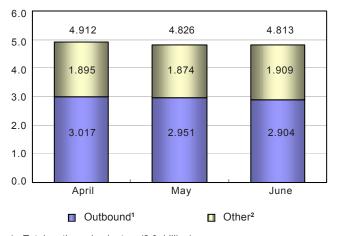
billions of minutes



Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Figure 5
Wireline traffic - Monthly long distance minutes

billions of minutes



- 1. Total outbound minutes (8.9 billion)
- 2. Total other minutes (5.7 billion)

Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Wireless telecommunications carriers (NAICS 5172)

Tables and graphs

Table 11. Operating revenues, NAICS 5172, quarterly, 2005

Mr. J.	First qu	arter	Second q	uarter	Third qu	uarter	Fourth q	uarter	Year to	date
Wireless telecommunications (NAICS 5172)	\$000	05/04	\$000	05/04	\$000	05/04	\$000	05/04	\$000	05/04
(NAI00 0172)	\$000	%	\$000	%	\$000	%	\$ 000	%	\$ 000	%
Telecommunications operating rever	nues									
Carrier services	50,352		65,239						115,591	
Local telephony										
Fixed (recurrent services)	1,036,163		1,048,925						2,085,088	
Air time (measured services)	441,050		533,394						974,444	
Other	117,157		125,726						242,883	
Total	1,594,370	14.6	1,708,045	12.7					3,302,415	13.6
Long distance telephony										
Total	145,503	7.6	169,722	10.5					315,225	9.1
Messaging - Paging	28,093		25,358						53,451	
Other telecommunications services	490,208		<u>538,306</u>						1,028,514	
Total	2,308,526	15.5	2,506,670	16.5					4,815,196	16.0
Other operating revenues	142,261	24.9	149,838	10.6					292,099	17.1
Undercoverage estimate	31,982		34,667						66,649	
Total operating revenues	2,482,769	16.0	2,691,175	16.1					5,173,944	16.1

Table 12. Operating expenses, NAICS 5172, quarterly, 2005

Mr. day at large and a state of the state of	First qu	arter	Second of	uarter	Third q	uarter	Fourth	quarter	Year to	date
Wireless telecommunications (NAICS 5172)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Telecommunications operating exp	enses									
Carrier services	78,990		88,034						167,024	
Labour expenses	262,500		264,501						527,001	
Depreciation	371,476		387,669						759,145	
Other telecommunications expenses	827,476		910,868						1,738,344	
Total	1,540,442	10.8	1,651,072	18.5					3,191,514	14.6
Other operating expenses	266,564	26.7	273,614	11.3					540,178	18.4
Undercoverage estimate	22,832		24,319						<u>47,152</u>	
Total operating expenses	1,829,838	12.9	1,949,005	17.4					3,778,844	15.2

Table 13. Financial and performance indicators, NAICS 5172, quarterly, 2005

	First qu	arter	Second of	uarter	Third o	uarter	Fourth	quarter	Year to	date
Wireless telecommunications (NAICS 5172)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Operating revenues	2,482,769	16.0	2,691,175	16.1					5,173,944	16.1
Operating expenses	1,829,838	12.9	1,949,005	17.4					3,778,844	15.2
Operating profit	652,931	25.9	742,170	12.8					1,395,100	18.5
% of operating revenues	26.3	8.5	27.6	(2.9)					27.0	2.1
EBITDA ¹	1,024,407	16.3	1,129,839	10.7					2,154,245	13.3
Revenue performance (\$) ²										
Operating revenue per capita	77.40	15.0	83.72	15.1					161.12	15.0
Local revenue per subscriber	106.38	3.3	110.73	0.0					217.11	1.6
Average revenue per local minute (cents)	12.44	(14.3)	11.64	(16.1)					12.01	(15.3)
,		, ,		, ,						
Long distance revenue per subscriber	9.71	(3.0)	11.00	(2.0)					20.71	(2.5)
Average revenue per										
long distance minute (cents)	12.01	(6.9)	12.34	(5.1)					12.19	(5.9)
Paging revenue per subscriber	40.52	28.7	38.08	23.4					78.60	26.1

^{1.} EBITDA - Earnings before interest, taxes, depreciation and amortization.

^{2.} Calculations do not include undercoverage estimates.

Table 14. Employment and labour costs, NAICS 5172, quarterly, 2005

Wireless tologomynumicatis:	First qua	arter	Second q	uarter	Third quarter		Fourth (quarter	Year to	date
Wireless telecommunications (NAICS 5172)		05/04		05/04	05/	04		05/04		05/04
(144100 0112)		%		%	%	6		%		%
Employment (persons)										
Full-time	12,130	(8.4)	12,398	(7.5)						
Part-time	3,656	25.1	<u>3,517</u>	18.6						
Total	15,786	(2.3)	15,915	(2.7)						
% of national industrial employment	0.117		0.113							
Total (full-time equivalents - FTE)	14,309	1.6	14,311	0.5						
Revenue (\$) per FTE employee	173,511		188,048							
Labour costs (\$000) ¹										
Full-time	227,933	(2.4)	234,236	(0.1)					462,169	(1.3)
Part-time	40,946	172.3	36,144	145.9					77,090	159.3
Total	268,879	8.1	270,380	8.5					539,259	8.3
Average labour costs (\$)										
per FTE employee (annualized)	75,164	6.5	75,368	7.2						

^{1.} Includes capitalized labour expenditures.

Table 15. Capital expenditures, NAICS 5172, quarterly, 2005

Min-1 4-1	First quarter		Second o	uarter	Third q	uarter	Fourth quarter		Year to	date
Wireless telecommunications (NAICS 5172)	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %	\$000	05/04 %
Capital expenditures	243,876	(28.6)	391,208	21.2					635,083	(4.4)
% of operating revenues	9.8	(38.4)	14.5	4.4					12.3	(17.6)
per subscriber (\$)	16.19	(35.6)	25.24	7.6					41.43	(14.7)
per capita (\$)	7.60	(29.2)	12.17	20.0					19.77	(5.3)

Table 16. Network infrastructure, NAICS 5172, quarterly, 2005

Wireless telecommunications	First quarter		Second quarter		Third quarter		Fourth quarter	
(NAICS 5172)		05/04		05/04		05/04		05/04
		%		%		%		%

Network infrastructure (access) Mobile subscribers 15,062,629 10.9 15,500,618 12.6 Mobile telephony penetration per 100 inhabitants 47.0 10.1 48.2 11.6 PSTN access paths per FTE employee 1,053 1,083 Paging subscribers 987,442 960,134 (13.7)(13.4)Paging penetration per 100 inhabitants 3.1 (13.9)3.0 (14.3)

Table 17. Traffic statistics, NAICS 5172, quarterly, 2005

First quarter

(NAICS 5172)		05/04 %		05/04 %	05/04 %	05/04 %		05/04 %
Traffic statistics (thousands of minu	utes) ¹							
Billed minutes								
Local	12,820,495		14,673,806				27,494,301	
Long distance	<u>1,211,151</u>		1,375,046				2,586,197	
Total	14,031,646	31.9	16,048,852	32.7			30,080,498	32.4
Traffic performance (minutes) ¹								
Local minutes per subscriber	855	20.4	951	19.3			1,806	19.8
Long distance minutes per subscriber	81	3.8	89	3.5			170	3.7
Billed minutes per subscriber	936	18.9	1,040	17.6			1,976	18.3

Second quarter

Third quarter

Fourth quarter

Year to date

Wireless telecommunications

^{1.} Calculations do not include undercoverage estimates.

Figure 6
Wireless telecommunications operating revenue shares

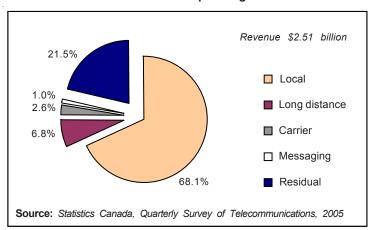


Figure 7
Wireless traffic - Total billed minutes (16.0 billion)

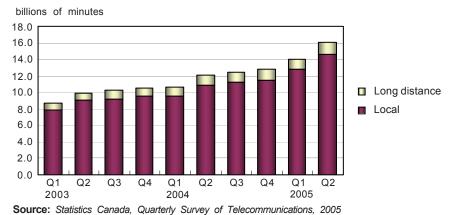
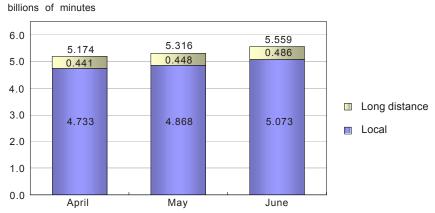


Figure 8
Wireless traffic - Monthly billed minutes



Source: Statistics Canada, Quarterly Survey of Telecommunications, 2005

Resellers, satellite, and other telecommunications (NAICS 5173, 5174, 5179)

Undercoverage estimates

Table 18. Undercoverage estimates, NAICS 5173, 4, 9, quarterly, 2005

Resellers, satellite, and other telecommunications (NAICS 5173, 5174, 5179)	First quarter	Second quarter	Third quarter	Fourth quarter	Year to date
Financial indicators (\$000)					
Operating revenues	336,804	341,978			678,782
Operating expenses	270,694	273,535			544,229
Operating profit margin % of operating revenues	66,110 19.6	68,443 20.0			134,553 19.8
Employment (persons)					
Full-time Part-time Total % of national industrial employment Total (full-time equivalents - FTE)	2,770 <u>174</u> 2,944 0.022 2,860	2,807 <u>196</u> 3,003 0.021 2,899			
Labour costs (\$000)					
Full-time Part-time Total	42,560 <u>1,382</u> 43,943	46,297 <u>1,518</u> 47,815			88,857 <u>2,901</u> 91,758

Concepts and methodology

Survey objectives

The quarterly survey of telecommunications service providers (NAICS 517) serves to measure the industry's financial performance, aspects of its network infrastructure, and industry operating characteristics relating to employment, capital expenditures and traffic activity. The survey improves on the monthly survey it replaces by: expanding survey coverage to include the major alternative wireline carriers and the wireless industry; providing undercoverage estimates for those units that make up the industry but are not included in the survey (resellers, satellite and small wireline and wireless service providers); using concepts consistent with the redesigned annual survey introduced in 1997; and, reducing reporting burden on respondents who had previously submitted twelve reports each year.

Survey coverage

The quarterly survey covers the largest establishments primarily engaged in the provision of telecommunications services and which operate telecommunications facilities (wired and wireless providers). Not surveyed are companies providing reselling, satellite and other services n.e.c. Activities for these companies are estimated based on annual surveys.

Industrial classification

Telecommunications service providers are classified to one of the five North American Industry Classification System (NAICS) telecommunications industries (Wired, Wireless, Resellers, Satellite and Other¹). Released in May, 2003, NAICS 2002 is the most up-to-date industry classification in use, and was jointly developed by

Canada, the United States and Mexico. Reporting units are classified according to the activity in which they are primarily engaged and the main technology they employ. This system has been updated from the 1997 NAICS. For further details about NAICS and for industry concordance between NAICS and the CSIC at all levels, consult the Statistics Canada publication 12-501-XPE.

Survey methodology

The quarterly survey collects data from the largest companies corresponding to NAICS industries 5171 (Wired) and 5172 (Wireless), reflecting approximately 98.0% of revenue activity for these industries and 92.7% of revenue activity for the telecommunications industry overall (NAICS 517) (see Table A). The annual survey, a census of telecommunications service providers, is used to produce undercoverage estimates for those units that are not surveyed in the quarterly, so that total industry activity can be estimated. NAICS telecommunications industries 5173, 5174 and 5179 are not surveyed because their respondents are generally smaller, and the few that are larger tend to dominate their industries, which would pose disclosure problems if they were to be included.

Variables which may be subject to wide variation from period to period, such as captial expenditures and non-operating revenues and expenses, were not estimated for non-surveyed units. In addition, these activities tend to be less significant the smaller the establishment (which is typical of the non-surveyed industries), such that the survey values for these variables are good proxies for total industry aggregates.

The wired (wireline) industry comprises establishments primarily engaged in operating and maintaining switching and transmission facilities to provide direct communications via land lines, microwave, or a combination of land lines, microwave and satellite link-ups.

NAICS 5172

The wireless telecommunications industry comprises establishments engaged in operating and maintaining switching and transmission facilities to provide direct communications via the airwaves, including cellular, personal communications services (PCS), enhanced specialized mobile radio (ESMR), and messaging (paging).

NAICS 5173

A telecommunications service provider is a reseller if it is primarily engaged in purchasing access and network capacity from owners and operators of telecommunications networks and reselling telecommunications services to their clients.

NAICS 5174

The satellite industry comprises establishments primarily engaged in operating, maintaining and providing access to fixed and mobile satellite telecommunications facilities for the transmission of voice, data, text, sound and full motion videos. Resellers of satellite communications are also included.

NAICS 5179

The 'Other telecommunications' industry includes companies providing telecommunications services not covered by the industries described above (e.g., telemetry, satellite tracking, radar stations operations).

^{1.} NAICS 5171

Coverage rates for the 2005 Quarterly survey are calculated by determining how much of total industry activity is attributed to the current quarterly respondents, using the most recent annual data available (2003), taking into consideration buy-outs, mergers and consolidations since 2003, and applying these ratios to the current quarterly data. The table below indicates coverage rates for operating revenues with respect to each NAICS industry. Undercoverage rates for other variables are similar to the rates presented here.

Table A - Coverage rates for operating revenues

NAICS	Coverage %	Undercoverage %	Total %
5171	98.2	1.8	100.0
5172	98.8	1.2	100.0
5173,4,9	ı	100.0	100.0
517	92.7	7.3	100.0

Undercoverage estimates for access lines are not adjusted between quarters because the observed growth in surveyed units (large incumbents and entrants) is not expected to be replicated by non-surveyed units (small, often rural, service providers). The undercoverage estimate simply reflects the number of access lines of the non-surveyed units for the most recent annual data available. Mobile subscriber undercoverage has not been adjusted between quarters, not because non-surveyed units are thought to be static, but because these units constitute such a small share of the industry that any change attributable to them would be negligible.

Quality and limitations of data

When Statistics Canada receives the completed quarterly questionnaires, they are checked for consistency with previous returns. All unusual occurrences are queried for confirmation and clarified with the respondents concerned. The data are almost always actual amounts, but where circumstances necessitate, best estimates are used from the respondents or derived by Statistics Canada based on the respondent's historical records and current industry trends.

The quarterly survey of telecommunications service providers is not a sample survey and therefore sampling errors do not occur. Non-sampling errors, however may occur. There are potentially four sources of non-sampling error that can be identified in any given survey: coverage error, response error, non-response error and processing error. Unlike sampling error, non-sampling error is not readily quantified. *Coverage error* results from inadequate representation of the intended population. This error may occur during selection of the survey population, or during data collection and processing. There is no evidence of significant coverage error in the 2005 Quarterly Survey of Telecommunications.

Response error may be due to many factors, including faulty design of the questionnaire, interviewers' or respondents' misinterpretation of questions, or respondents' faulty reporting. Frequent changes in company personnel may also lead to response error. The quarterly survey has several features that help respondents to complete the questionnaire, including logic and consistency checks, and a glossary of terms and concepts. Responses are compared from quarter to quarter and any significant deviations are queried by analysts to ensure their accuracy. However, even with these checks, the accuracy of data depends on the respondent's willingness to consult their records.

Non-response error occurs because not all potential respondents cooperate fully. This has not been a concern with the quarterly survey. Processing errors may also occur during coding, entry, editing and tabulation of the data. In this survey, procedures for quality control were used during the processing of data, as indicated above, to keep such errors to a minimum.

Revisions

Revisions are necessary as more complete data become available. The nature of the telecommunications industry is such that respondents often contact Statistics Canada to update their data or to report errors in data they had previously reported. Revisions are made each quarter to reflect these changes or corrections in the data. The most recent release of quarterly telecommunications data should always be consulted for the most accurate information.

Readers should note that some revisions have been made to reflect new accounting guidance and industry practice, as well as mergers and consolidations between companies. Communication between Statistics Canada and various companies resulted in improved allocation of wired operating expenses; and wireless operating revenues and expenses.

For more information, or to enquire about the concepts, methods and data quality, please contact Advisory Services Division at 1 800 263-1136; Facsimile 1 877 287-4369; infostats@statcan.ca.

Standards of service to the public

Statistics Canada is committed to serving its clients in a prompt, reliable and courteous manner and in the official language of their choice. To this end, the Agency has developed standards of service which its employees observe in serving its clients. To obtain a copy of these service standards, please contact Statistics Canada toll-free at 1 800 263 1136. The service standards are also published on www.statcan.ca under About Statistics Canada > Providing services to Canadians.

Note of appreciation

Canada owes the success of its statistical system to a long-standing partnership between Statistics Canada, the citizens of Canada, its businesses, governments and other institutions. Accurate and timely statistical information could not be produced without their continued cooperation and goodwill.

The development of Statistics Canada's Telecommunications Statistical Infrastructure Program benefited from the advice and financial support of the Spectrum, Information Technologies and Telecommunications Sector, Industry Canada.

Glossary of terms

Advanced services ratio. The ratio of operating revenues from software enhanced telecommunications services (e.g., calling features), services supporting internet and packetswitched communications, and other high speed applications (switched and non-switched services), and traditional telephony (local and long distance voice, connection and narrowband non-switched or private line services). (Rapport des services de pointe)

Alternative providers of long distance services. Non-incumbent (entrant) facilities-based and non-facilities-based (resellers) companies providing long distance telecommunications services. (Autres fournisseurs de services intercirconscriptions)

Average labour costs per FTE employee (annualized).

Total industry labour costs (wages, salaries and benefits paid to full-time and part-time employees) divided by the number of full-time equivalent employees. This calculation is a moving average, such that previous quarter data is included in the current quarter calculation, and adjusted to arrive at an annual estimate. The first quarter estimate is multiplied by four the second quarter estimate is calculated

included in the current quarter calculation, and adjusted to arrive at an annual estimate. The first quarter estimate is multiplied by four, the second quarter estimate is calculated by summing labour costs for the first two quarters divided by the average number of FTE employees for both quarters, and multiplying that result by two, etc. (Coûts moyens de la main-d'oeuvre par employés à plein temps ou l'équivalent (annualisés))

Average revenue per long distance minute. Long distance operating revenues divided by long distance outbound minutes (including toll-free). (Revenu moyen par minute de service interurbain)

Broadband access. High capacity two-way links between end-user and suppliers networks (central offices) such as hybrid-fibre-coaxial-cable systems, fibre-to-the-curb and fibre-to-the-home systems for residential users, with speed in one direction exceeding 1.544 Mbps. (Accès à large bande)

Calling Features. Specialized software and database applications linked to telecommunications networks such as call waiting, call forwarding, caller identification, three way calling, speed dialing, etc.; call management services: call display, call return, call screen, call blocking, automatic call-back, etc.; and, tele-messaging: call answer, extension call answer, voice mail, voice menus, etc. These features are commonly offered on a per-use, or on fixed monthly charge basis. Calling features are also referred to as optional or enhanced local services). (Options de gestion)

Calls/messages, Outbound. Calling/messaging units originating in Canada and terminating in Canada, the United States, and overseas (foreign countries other than the United States). (Appels ou messages de départ en provenance du Canada)

Calls/messages, Incoming/Inbound. Calls/messages from either the United States or overseas (foreign countries other than the United States) and terminating in Canada. (Appels ou messages d'arrivée internationaux à destination du Canada)

Capital expenditures per subscriber. Dollar amount of wireless capital expenditures for every wireless subscriber. (Dépenses en immobilisations par abonnés)

Carrier services. Services provided to other telecommunication service providers (common carriers or resellers). This includes contribution, interconnection and other services provided to telecommunications service providers such as co-location, access to support structures, database access, the recovery of start-up costs, other unbundled elements associated with the provision of dial tone, etc. (Services aux entreprises de télécommunications)

Cellular telecommunications. A telecommunications system that uses radio frequencies to provide mobile access to the PSTN (public switched telephone network). Cellular telecommunication can use either analogue or digital transmission technology over a multi-cell architecture. (*Télécommunications cellulaire*)

Circuit. A facility consisting of the equipment and apparatus required to form a path suitable for the transmission of voice, text, audio, video or data communication between telephones and other communication equipment in the telecommunications network. (*Circuit*)

Connection. The one-time activation of telecommunications subscribers by connecting or reconnecting them to the PSTN. This does not include premises wiring. *(Connexion)*

Contribution. Payments derived from domestic and international long-distance telecommunications revenues to cover the revenue shortfall in the provision of local/access services. *(Contribution)*

Conversation minutes. The actual elapsed period in minutes a respondent's switches, circuits, lines or groups of lines are in use, or in the case of rebillers, the actual conversation time their customers use for calls and messages. Billing increments other than conversation time were converted to conversation minutes and reported by respondents accordingly. (*Minutes de conversation*)

Data and high speed services. This includes all wideband and broadband services (greater than 64 kbps), as well as narrowband packet-switched services. Wholesale internet services are not reported separately, and are included here. (Services de données et à haute vitesse)

Dispatch services. Non-switched services provided by radio common carrier (RCC) license holders for the provision of radio communications services (e.g., dispatch services for taxis or field service personnel, mobile data for police departments, etc.). (Service de dépêche)

Earnings before interest, taxes, depreciation and amortization (EBITDA). For this survey, this is calculated by summing operating profit and depreciation. (Bénéfices avant intérêts, impôts, dépréciation et amortissement (BAIIDA))

Employees. Any person drawing pay for services rendered or for paid absences and for whom an employer must complete a Canada Customs and Revenue Agency T4 Supplementary Form. This includes full-time (work performed or paid absence of 30 or more hours in a typical work week) and part-time employees (work performed or paid absence of less than 30 hours a week), working owners, directors, partners and other officers of uncorporated businesses. It excludes owners or partners of unincorporated businesses, the self employed, unpaid family workers, persons outside Canada and casual workers for whom a T4 is not required. (Employés)

Enhanced specialized mobile radio (ESMR). A telecommunications system that uses radio frequencies to provide mobile dispatch services and mobile access to the wireline PSTN. ESMR uses digital transmission technology over a multi-cell network architecture. Its activity is reported as part of mobile telephony. (Services de radiocommunications mobiles spécialisés (SRMS))

Establishment. A telecommunications service provider which is an operating entity capable of reporting basic elements of financial and network statistics, such as revenues and number of access lines in service. (Établissement)

Facilities-based operator. A telecommunications service provider that owns or operates any transmission facility (wire, cable, radio, optical, or other electromagnetic system, or any similar technical system) for the transmission of intelligence (signs, signals, writing, images, sounds or intelligence of any nature) between network termination points. (Fournisseurs de télécommunications exploitant leurs propres installations)

Fixed wireless. The use of radio frequencies for the provision of telecommunication services from a fixed place. This is used for access to the PSTN in remote areas or for alternative access to the PSTN in built-up areas. In these circumstance, fixed wireless is known as wireless local loop (WLL). Fixed wireless can use either digital or analogue transmission technology. (Sans fil fixe)

Fringe benefits. Employer contributions to pension plans, medical and other welfare plans, unemployment insurance, Canada and Quebec Pension Plans and workers compensation. Not included are non-taxable benefits provided by an employer such as premiums under a private health plan, recreational facilities, moving expenses and certain employee counselling services. Reported with Labour costs. (Avantages sociaux)

Full-time equivalent (FTE) employees. Full-time employees plus part-time employees converted to full-time equivalents. For this survey, this is calculated by dividing total part-time labour costs by the average full-time salary (full-time labour costs divided by full-time employees). (*Employés à plein temps ou l'équivalent (EPT)*)

Interconnection. Services and facilities beyond the point of interconnection (such as switching and aggregation) to terminate traffic on behalf of an originating telecommunications service provider. This includes transiting or transport where provided pursuant to an interconnection tariff or agreement. Interconnection occurs between local exchange carriers (LECs) and interexchange service providers (IXCs), including alternative providers of long distance services (APLDS), LECs and wireless service providers (WSPs), and between domestic and foreign service providers. (Interconnexion)

Internet Protocol (IP). The method by which data is transmitted between computers connected to the Internet. Each computer on the Internet has at least one IP address that uniquely identifies it from all other computers on the Internet, making it possible for data to be transmitted to a particular destination. (*Protocole Internet (IP)*)

Labour costs. The total remuneration paid to employees before deductions (the equivalent to the taxable employment income reported in Box 14 of the employees Canada Customs and Revenue Agency T4 slips). This includes regular wages and salaries, overtime pay, paid leave, taxable allowances and benefits, gratuities, director's fees, vacation pay and special payments such as bonuses and commissions, retroactive and accumulated wage payments, termination/ severance payments, cost of living adjustments and working owner's draws, for expensed or capitalized labour. This also includes fringe benefits (see Fringe benefits). Readers should note that the amount reported as part of Operating expenses may differ from what is reported in the labour cost section, since the latter may include payments for labour that are capitalized. (Coûts de la main-d'oeuvre)

Local switched telecommunications. The switching and transmission of voice, data, image and video messages over the PSTN within local calling areas. (*Télécommunications commutées locales*)

Long-distance switched telecommunications. The switching and transmission of voice, data, image and video messages over the PSTN between local calling areas. (*Télécommunications commutées interurbaines*)

Messaging. An interactive telecommunications service that provides for information interchange among users by means of store-and-forward, electronic mail, or message-handling functions such as paging and narrowband PCS. Telephone answering services are not included. (*Messagerie*)

National industrial employment. Total national employment from Statistics Canada's Survey of Employment, Payrolls and Hours (SEPH). The target population is composed of all employers in Canada, except those in agriculture, fishing and trapping, private households services, religious organizations and military personnel of defence services. This figure does not include self-employment. For further information see Statistics Canada Catalogue No. 72-002-XPB. (Emploi industriel national)

Narrowband PCS. A telecommunication system that uses radio frequencies in the 900 MHz frequency band to provide one or two-way messaging services. This service uses digital transmission technology with radio frequency channels of 50 kHz (kilohertz) or less. (Bande étroite (SCP))

Net income before taxes. Total revenues (operating revenues plus non-operating revenues) less total expenses (operating expenses plus non-operating expenses). (Revenu net avant impôt)

Network access services. Primary connection to a company owned network for the purpose of telecommunications, regardless of the physical characteristics of the link. This includes individual and party line circuits; trunks connecting company facilities with switching devices located on customers premises; licensed radio-telephones; primary connections within networks (i.e., drops); WATS; and primary special services circuits. (Services d'accès au réseau)

Non-switched telecommunications. Dedicated communication lines or paths between specified points for the exclusive use of the lessees or owners typically not involving the PSTN for routing or switching the communication, e.g., private voice and data networks linking multiple business locations, dedicated links for transferring high-resolution video, etc. (Télécommunications sans commutation)

Non-PSTN lines. Telecommunications lines not connected to the PSTN, e.g., non-switched transport services such as low-speed data links for automated teller machines; private voice and data networks linking multiple business locations; and dedicated links for transferring high-resolution video. Analogue lines (voice, sub-voice) are typically used for alarm monitoring, traffic control, point-of-sale terminals, etc. (Lignes non reliés au RTPC)

Operating profit. Total operating revenues less total operating expenses. (Bénéfice d'exploitation)

Operating revenue per capita. Industry operating revenue per person based on the quarterly population estimate. (*Revenus d'exploitation par personne*)

Packet switched telecommunications. Voice, data or video telecommunications that are divided into packets of fixed or variable length to be routed along non-reserved circuits to their destination. Each packet is addressed and numbered so it can be routed to its proper destination and reassembled in its proper sequence upon its arrival. These packets typically follow various routes depending on what is available at the time, which maximizes the network's operating efficiency. (Commutation par paquets)

Paging. A one-way telecommunications system that provides signaling or information transfer by such means as tone, tone-voice, tactile, or optical read-out. Analogue or digital transmission technology may be used. (*Radiomessagerie*)

Paging revenue per subscriber. Paging revenues per paging subscribers (does not include undercoverage estimate). (Revenus de messagerie par abonné)

Personal communications services (PCS). Mobile telecommunications using radio frequencies in the 1900 MHz frequency band connected access to the PSTN. PCS uses digital transmission technology over a multi-cell network architecture. (Services de commutations personnelles (SCP))

Public switched telephone network (PSTN). The worldwide dial-up telephone network (switching, circuits, transmission and access services), or a portion of that network, used to establish voice and non-voice (text, audio, video or data) communications carried over a path initially established using normal telephone signaling and ordinary switched long-distance telephone circuits. (Réseau téléphonique public commuté (RTPC))

PSTN access paths per FTE employee. Access lines for the wireline industry and mobile subscribers for the wireless industry, per full-time equivalent employee in the respective industries. (Voies d'accès RTPC par employé à plein temps ou l'équivalent)

PSTN, BRA (Basic rate access) access lines deliver two 64 kbps channels (B channels) and one 16 kbps channel (D channel) over a standard twisted-pair loop. The 64 kbps channels are capable of transmitting voice or data simultaneously while the D channel transmits call control messages and packet data at 9.6 kbps. (RTPC, ADB (Accès à débit de base))

PSTN, **Centrex access lines**. A business telephone service offered by a service provider that permits direct inward dialing to a customer's extensions, transfer of incoming calls from one extension to another, and identification of extension telephones for billing of long-distance calls. Centrex is based on switching equipment usually located on the service providers premises. (RTPC, Lignes d'accès Centrex)

PSTN, Individual access line. A subscriber line arranged to serve one main telephone. This includes PBX (private branch exchange) lines for businesses that have corresponding dedicated ports in the telephone exchange equipment. (RTPC, Ligne d'accès individuelle)

PSTN, ISDN access line (Integrated services digital network). A high capacity digital line the equivalent of 2 (BRA) or 23 (PRA) voice grade lines. These are counted as single lines despite their greater capacity. See voicegrade equivalents for a measure that is frequently used to take into account the enhanced capacity of these lines. (RTPC, Réseau numérique à intégration de services (RNIS))

PSTN, **Official telephone lines**. Active lines connected to the PSTN used by the respondent but for which it does not receive payments. (RTPC, Lignes de téléphones officielles)

PSTN, **Other access lines**. Wireline access lines not specified by any of the defined categories (individual, ISDN, public, centrex) such as WATS, Mobile access lines (this is not the same as mobile telephony subscribers). (RTPC, Autres accès)

PSTN, **Party-lines**. A subscriber line arranged to serve two or more main telephones (e.g., residential party lines). (*RTPC*, *Partagées*)

PSTN, PRA (Primary rate access) lines can transmit at 1.544 Mbps (T1 trunk facility) consisting of 23 64 kbps B channels and one 64 kbps D channel. The B channels carry voice and data at 64 kbps while the D channel carries out-of-band signaling for one or more primary rate links. (RTPC, ADP (Accès à débit primaire))

PSTN, Public telephones. Coin or card payphones including semi-public phones (payphones available to the public on a restricted basis owing to their location, e.g., those on private premises such as restaurants). (RTPC, Téléphones publics)

Reseller. A telecommunications service provider primarily engaged in purchasing access and network capacity from owners and operators of telecommunications networks and reselling telecommunications services to their clients. Resellers may own some network facilities such as switching equipment or apparatus to manipulate and control intelligence but do not operate or maintain a full network, nor own transmission facilities such as wire, cable, radio or optical systems. (Revendeur)

Retail internet services. The value reported in these quarterly reports represents only a small part of retail internet services in Canada, as most telecom companies have subsidiary companies or separate operating divisions (ISP's - Internet Service Providers), which are not telecommunications industries according to the North American Industry Classification System (NAICS). (Services Internet de détail)

Revenue per FTE employee. Total operating revenues per full-time equivalent employee. (Revenu par employé à plein temps ou l'équivalent)

Satellite, fixed. Communications via satellite transmission in which the terrestrial terminal points are fixed. (*Satellite (Fixe)*)

Satellite, mobile. Communications via satellite transmission in which the terrestrial terminal point can be mobile. (Satellite (Mobile))

Subscriber. A customer of a wireline or wireless telecommunications service provider having unique access to the PSTN. *(Abonné)*

Switching equipment. Digital and analogue equipment and related software used to switch traffic over the PSTN. PBX s used as public switches are included whereas PC's used as switches are excluded. (Équipement de commutation)

Telecommunications. Any transmission, emission or reception of signs, signals writing images, sounds or intelligence of any nature, by wire, radio, visual or other electro-magnetic system. (*Télécommunications*)

Telecommunications, wireline (wired). Establishments primarily engaged in operating and maintaining switching and transmission facilities to provide direct communications via land lines, microwave, or a combination of land lines, microwave and satellite linkups. (Télécommunications par fil)

Telecommunications, wireless. Establishments engaged in operating and maintaining switching and transmission facilities to provide direct communications via the airwayes. (*Télécommunications sans fil*)

Telecommunications, other. Establishments primarily engaged in providing specialized telecommunications services such as satellite tracking, communications telemetry and radar station operation. The includes establishments primarily engaged in providing satellite terminal stations and associated facilities connected with one or more terrestrial systems and capable of transmitting telecommunications to, and receiving telecommunications from, satellite systems. (Autres services de télécommunications)

Teledensity. A measure of the number of phone lines (fixed access lines and mobile subscribers) per 100 of population. Between 40 and 50 lines per 100 of population indicates fairly good density. The OECD average was 48.9 in 1997. Teledensity is a measure of a country's economic development. (*Télédensité*)

Telemetry. The measurement or recording of an activity from a distance by monitoring equipment connected to a telecommunications network. (*Télémétrie*)

Telephone. A compact unit containing the parts necessary for the transmission and reception of speech and for ringing or signalling the party called, and which can be interconnected to any other such unit in the general telephone network. (*Téléphone*)

Terminal equipment. Equipment on customer premises connected to telecommunications lines: e.g., PBX's not used for public switching, telephone sets, routers, modems in customer sites, key systems, etc. (Équipement de terminal)

Voice services. Services generally associated with voice communication, narrowband or voice-grade communication, including voice telephony, fax, PSTN access, etc. (Services de transmission de la voix)

Voice-grade. A voice-grade access line can transmit voice or data at 64 kbps. They also transmit communications in an audio frequency range between 300 and 3000 Hz, typical of the human voice. (*Qualité téléphonique*)

Voice-grade equivalents ('B channel' equivalents). Refer to how many voice-grade lines would be needed to provide the same or equivalent bandwidth to the line in question. ISDN BRA lines (bandwidth = 144 kbps) are the equivalent of 2 voice-grade lines while ISDN PRA (bandwidth = 1.544 Mbps) are the equivalent of 23 voice-grade lines. (Équivalent qualité téléphonique (équivalent « canal B »))

Voice over Internet protocol (VOIP). Transmitting voice signals in digital form over the Internet using the internet protocol (IP) method. (*Protocole transmission de la voix par Internet (VOIP)*)

Wide area telephone service (WATS). Service provided by a telephone company enabling a subscriber to dial certain distant exchanges on either a flat rate or a measured time charge basis. (Services interurbain planifié (WATS)

Wideband. Telecommunications of bandwidth greater than 64 kbps up to and including 1.544 Mbps. A telecommunications path with 2 way capabilities with speed in at least one direction fitting the criteria described above. (*Large bande*)

Wireless broadband services. A multipoint telecommunications systems that use radio frequencies to allow the transmission and/or reception of information such as multimedia, data, and video over radio frequency channels of 50 kHz or greater (e.g., LMCS). Either digital or analogue transmission technology is used. (Service sans fil à large bande)