REPORT ON A SURVEY OF THE USE AND SOURCES OF BUSINESS SERVICES

conducted in February 1988

Services Division Statistics Canada 89-09-26

INTRODUCTION

In February 1988, Statistics Canada conducted a pilot survey to gather information on the use of business services. Specifically, the survey was designed to test the possibility of determining the extent to which businesses in Canada relied on their own facilities for legal, financial and other services, (see TABLE 1) or whether they tended to purchase them on contract. The survey sought information on the situation for such services in 1987, how things had changed since 1984, and what changes were expected by 1990. Results of the survey are provided in this report. advised to use caution in interpreting these results, since neither the size nor the industrial or geographic distribution of the sample were designed to be representative. The pilot survey was designed primarily to test the possibility of collecting such data, and the survey results, while indicative, are not statistically representative of the universe of businesses in Canada.

The pilot survey tested the hypothesis that no business services have been created in recent years, but rather the growth in business service industries represents a trend towards the contracting out of those services formerly provided on own account. Evidence from the survey is not sufficient to confirm or reject the hypothesis in its strong form, but does indicate that both the volume of business services, and the percentage of that volume contracted out, grew over the period of study. This observation, and the fact that the evidence could be gathered from the respondents, suggest that further study would be desirable.

The survey went to 512 respondents. Their distribution by revenue, organizational complexity, 1980 Standard Industrial Classification, and geographical region, are given in TABLES 2 to 5.

HYPOTHESIS AND DEFINITIONS

The interest in the use of business services arises from the fact that the output of service industries, broadly defined, accounts for over half of the GDP and almost three quarters of total employment. Business service industries, in particular, have shown growth in both employment and in measured GDP over the last decade. However, there is the counter claim that there is no change in the output of services, and that many of the service outputs now measured were provided previously on own account. If this is the case, the lack of means for measuring own account services is at fault, and the observed trends reflect nothing more than a different way for business to carry on its activities, a way which results in the services becoming visible and measurable, where they had been relatively invisible to past statistical measurement procedures.

The resolution of these conflicting claims has implications for a third claim that, as small business units supply many services, their net growth is consistent with the observation that most employment creation, in recent years, originated in small business.

If there has been no fundamental change, and the volume of service outputs is growing principally as a result of contracting out, then what is being observed is not necessarily a growth in employment, but a shift from those industries which formerly produced the services on own account, to industries now providing the services on contract. If this is indeed the case, the size of the business units is irrelevant to the change in employment, and what is significant is the change in how business conducts its activities.

This study examines the extreme form of the hypothesis that no business services have been created, but growth in business service industries represents a trend towards contracting out. To analyse this question, some definitions are required.

The target unit in the study is the "enterprise", which is the smallest set of productive operations under common ownership and control, capable of reporting a complete consolidated balance sheet. "Contracting out", in this context, is defined as a transaction that crosses the boundaries of an enterprise, while "own account" refers to transactions that take place within the boundaries of the enterprise, whether within the same producing unit, or among different producing units under the same ownership and control. One consequence of this definition is that transactions in services between a Canadian parent and its foreign subsidiaries, or between a foreign parent and its Canadian subsidiaries, are treated as purchases or sales of services rather than "own-account" transactions.

OUTPUT CLASSIFICATION AND TARGET UNITS

TABLE 1 shows an aggregated classification of business services. Its purpose was to establish whether respondents in the target units could answer questions about these services or whether they were ambiguous or incomplete. Difficulties in distinguishing individual services in finance, marketing and computing were anticipated by providing group categories.

As an objective of the survey was to produce a revised classification for future surveys, respondents were invited to suggest additional business services likely to be contracted out, and the only suggestion was transportation services. Analysis of the results was expected to indicate where the classification could be more, or less, aggregated, and here, legal services was the only candidate for disaggregation.

The target unit for the survey is the business head office, or its ancillary units. An implicit question, when dealing with these units, is how they are structured and how they operate in relation to the rest of the enterprise.

SURVEY VEHICLE

Traditionally, there have been two classes of business surveys. The first measures the financial position of the enterprise as a whole, but it is not designed to measure transactions within the

business. The second class of surveys consists of those designed to produce industrial statistics. They see the business as a set of discrete, mutually exclusive production units and ancillary units. But these surveys do not attempt to measure the intracompany flow of services. While this is not an intrinsic difficulty, and it could be rectified by redesign, the fact remains that these surveys are not suitable vehicles for this study.

There is now a third class of survey which is designed to delineate the structure of a business. These surveys are addressed to head offices and concentrate on the boundaries of the enterprise, its constituent elements, and how the various accounts support the relationships that may exist among the components of the business. At Statistics Canada these surveys are known as "profiling" and their results form the basis of the business register, from which all business surveys are driven.

Initial experiments' suggest that the profiling surveys can be used to find out which services are used and whether they are purchased or produced on own account, and that such enquiries are not perceived as inflicting undue response burden. For these reasons, the survey for this study was directed at those businesses which had already been profiled.

The target units were selected at a stage in the profiling exercise when there were more than a representative number of completed, or partially completed, profiles for wholesale and retail trade. In addition, some of those in the finance, insurance and real estate category may have reflected the activity of the parent corporation, rather than that of the enterprise under its control. For these reasons the distribution of respondents in TABLE 4 is not representative of the distribution of businesses by 1980 SIC. This is not seen as a defect of this study as its principal objectives are to test the classification and the questionnnaire, while gathering sufficient information on contracting out to establish a case for a subsequent survey, perhaps as part of the on-going profiling programme.

MEASUREMENT ISSUES

Quantitative comparison of own account services with purchased services requires a yardstick. The cost of the former and the price of the latter would provide a basis for such comparison; however the availability of this information depends on the accounts kept for each of the services in TABLE 1. This makes the confirmation of the availability of data a part of the test of the initial classification.

In pursuit of a yardstick, the survey asks if a cost is attached to in-house services and the total cost for each service whether

Statistics Canada, "CONTRACTING OUT: Paper for discussion at the Ad Hoc Meeting on Service Industry Statistics (Stockholm, 2-4 November, 1987)."

produced in-house or contracted out. The object is to identify how in-house services are recorded, if at all, and to indicate where other proxies, such as the number of people employed to provide the service, are likely to be required for subsequent surveys.

TEMPORAL COMPARISON

To test the hypothesis that the volume of business services is static while the volume of contracted out services is growing, it is necessary to know, at some point in the past, the cost of own account services and the price of contracted out services. This provides a historical measure of change when compared with the present state, and a trend, which could be extended if plans for the future were also available.

As there were no previous surveys to provide a temporal link, respondents were asked to provide information on the change in the use of business services since 1984, and the anticipated change in use by 1990. These changes and projections were for the volume of services produced in-house and for the volume of services contracted out. Those who provided a service through both sources were asked to give the change and projection for the volume of purchased services as a percentage of the total volume of the service used.

LINKAGE TO OTHER BUSINESS CHARACTERISTICS

In addition to linking the present state of the business to its past and its future, there are linkages to known characteristics of the businesses profiled. Of these, four are used to classify the respondents: total revenue, complexity, industrial classification; and regional office from which the survey was taken.

RESULTS

The survey was conducted by telephone through the Statistics Canada Regional Offices and there was a 94% response rate for full and partial returns, which resulted in 512 responses suitable for analysis. The good response rate was the first indication that the classification was useable. When the response rate was combined with the ability of the regional staff to assist respondents to provide accurate information, it suggested that where respondents could not answer a question, there was a genuine problem of data availability which would have to be taken into account in subsequent surveys.

Services used

The first question was: "Do you use this service?", where the service was one of those listed in TABLE 1. The categories were as specific as possible, except for Finance Department Total, Marketing Department Total, and Computer Centre Total which were

used for respondents who could not provide greater detail. Virtually all respondents were able to answer the question and the results classified, where numbers permit, by revenue, complexity, industry, and by regional office are given in TABLES 6 to 9.

It is clear from TABLE 6 that not all respondents could specify, in detail, which financial services they used. While it was apparently easier to distinguish the component services of marketing and of computing, all three aggregate categories were useful, and especially so for respondents that provided their services both in-house and through contracting out.

The individual services most used were: legal, miscellaneous support and maintenance, data processing and accounting services. All respondents used at least one of the financial services, 88%, at least one of the computing services, and 81%, at least one of the marketing services.

From the breakdown in TABLES 6 to 9, it appears that the percentage of respondents reporting the use of business services is positively correlated with the revenue of the enterprises. Also, on average, enterprises with divisions report the use of more services than the those without divisions. As expected, the industrial breakdown in TABLE 8 shows that manufacturing has the largest number of users of engineering services and of computing services, while retail trade leads in the number of users of advertising services. The regional breakdown suggests that enterprises surveyed from Toronto, and which had head offices in Ontario, use more services than enterprises with head offices in other provinces.

Source of the services

Respondents were also able to answer the second question on whether the service was provided in-house, purchased from outside, or provided from both sources. The results, classified as above, are presented in TABLES 10 to 13.

Management consultancy, as well as miscellaneous support and maintenance services, were assumed to be completely contracted out. For the others, legal services were completely contracted out by 91% of the respondents, followed by architectural services (76%), taxation services (70%), and computer consultancy (62%). For the last two, there were probably additional users of those services included in the aggregate categories. The services provided inhouse only were led by data processing (80%), followed by Public Relations (PR) services (51%), engineering services (48%), and accounting services (45%).

Looking at the breakdown of the source information, it appears that large enterprises provide more legal services both in-house and through purchase than smaller enterprises. The fact that there is high in-house production of engineering services in the finance, insurance and real estate category would appear to confirm the problem with industrial classification referred to earlier. The regional breakdown suggests that Ontario based firms go outside

more for market research services than those in British Columbia or Quebec, and those in Quebec go outside more for taxation services.

Services provided in-house only

81% of respondents reported the use of at least one service provided on own account only. The number of respondents in this category was low for those services normally provided from other sources, as can be seen from TABLE 10.

The first question for those using an in-house service, only, was whether a cost was attached to the service. Most answered this question, with up to 46% saying that, for individual services, they did attach a cost and most of those were able to provide a total cost for the service. The percentage of respondents providing a cost is given in the first column of TABLE 18. Most of those who could provide a total cost could also indicate whether that cost included direct costs, overheads, or purchases of services.

The components of total cost are summarized in TABLE 14 from which it is clear that the ability to produce a valuation which includes direct costs and overheads, or direct costs, overheads and purchases, varies from service to service. If respondents in these two categories are those able to give a full valuation, at least half are in this position. However, this is half of those able to give a total cost, and this number for some services is low. Also, some respondents may have misinterpreted the meaning of the purchased services component of cost to mean the cost of purchases needed to provide the service in-house. For the provision of in-house services it was expected that the cost of purchased services would be a very small component of the total cost.

TABLE 15 shows the source of the services produced within the enterprise, whether they originated from head office, the divisions, or from both, and it is clear that they are provided principally by the head office. Computing, engineering and architectural services are the most distributed. Respondents were asked whether the head office kept accounts for services if they were produced in a division. More respondents reported that accounts were kept than reported the provision of services by divisions. This suggests a misinterpretation of the question.

Respondents were asked about the trends in the use of purchased services between 1984 and 1987, but the numbers were too small to analyse. They were also asked about trends in the total volume of services, and these results are presented in TABLE 18 and are discussed in the section on trends.

Services provided both in-house and through contracting out

72% of respondents reported at least one service provided both inhouse and through contracting out. Response was low in this category for architectural services which are either contracted out, or provided in-house, but rarely are they provided from both sources. Response was also low for legal services, which are mainly contracted out, and for data processing, which is mainly provided in-house.

As in the case of in-house services, respondents were able to say whether they attached a cost to the in-house portion of the service, and of those that did, most were able to report a total cost. The percentage of respondents providing a total cost is given in the first column of TABLE 20. The components of the total cost are given in TABLE 16, and they can be compared with TABLE 14 for in-house services only. The observation can be made again, that if those reporting direct costs and overheads, or direct costs, overheads and purchases are those able to give a full valuation, then, with the exception of computer consultancy, over half of those reporting cost figures were in this position.

Services produced in-house, when the same service is also purchased, are supplied principally by the head office, as can be seen in TABLE 15. If architectural, legal and data processing services are ignored because of low response, the distributed services produced in-house are engineering and market research. On average, the head office is less likely to keep accounts for services supplied by its divisions, if the same service is also purchased. It should be noted that response to questions about the source of in-house services and accounting practice was lower in this case than it was when there was no purchase of the same services provided in-house.

Respondents were asked about trends in the use of purchased services, and these results along with trends in the total volume of services are presented in TABLES 19 and 20 and are discussed in the trends section below.

Services contracted out only

97% of respondents used at least one service that was completely contracted out, and most were able to provide a value of the service purchased. The percentage of respondents actually giving a value for purchased services is given in TABLE 17. As in the case of in-house services only, there was no trend analysis of changes in the relative amounts of own account and contracted out services between 1984 and 1987, however there were discernible trends in the total volume of purchased services.

Trends

TABLE 17 shows that the volume of services purchased by those contracting out, only, increased between 1984 and 1987, and is forecast to increase by 1990, but not at the same rate. Note should be taken, however, that the percentages in the table are based on the number of responses, and that they are unweighted by a value measure.

TABLE 18 shows the trends for the total consumption of services produced in-house, only. As in the case of purchased services,

consumption grew between 1984 and 1987, and is projected to grow between 1987 and 1990.

For respondents using both in-house and purchased services, the trends are similar to those using only one or the other, and the results are shown in TABLES 19 and 20. TABLE 21 addresses the question of how the volume of purchased services, as a percentage of total consumption of services, changed, and is projected to change. The table, which is based on respondent numbers, shows that the ratio increased between 1984 and 1987, and is projected to remain static to 1990. The low percentages in the table result from the fact that not every respondent who used both in-house and purchased services was able to respond to this question.

CONCLUSIONS

The survey results, based on respondent numbers, suggest that the total consumption of in-house services, and the total value of purchased services, grew over the period 1984 to 1987, and both are projected to grow further by 1990. If this result is accepted at face value, it contradicts the first part of the hypothesis that no business services have been created.

The results also suggest that the purchased services, as a percentage of services consumed, grew between 1984 and 1987. This result is consistent with the second part of the hypothesis, that growth in business service industries represents a trend towards contracting out. But it is not conclusive on whether this trend is at the expense of in-house service reductions.

The survey demonstrates that, for each service, respondents could give their expenditure on purchased services, and some could produce a valuation of in-house services which included direct costs, overheads and, where appropriate, purchases. This raises two questions. The first is whether a full valuation of in-house services could be gathered from a higher percentage of respondents if a survey of this type were a more frequent, and therefore more familiar, occurrence. The second question is whether a separate measure of value ought to be collected which might be more readily accessible, such as the number of people employed in producing the service. These questions could be resolved by an additional survey.

The output classification proved statisfactory in that respondents could say whether the services in the classification were used, and whether they were provided in-house, contracted out, or both. In some cases it was possible to assign a value to services purchased, or made on own account. The high use of legal services would suggest that this category be disaggregated for future use. At the suggestion of respondents, transportation services should be included.

The profile survey proved an effective context in which to conduct this study, and the questionnaire, with minor adjustments, could form part of the profile survey. Making information collection on contracting out part of an on-going collection process would go some way towards solving some measurement problems, and it would remove from the respondent the burden of producing past trends.

Finally, the survey, which was a pilot study with a modest number of target units and 512 actual responses, achieved its principal objectives of gathering information, and determining the ease with which it could be supplied by respondents. In doing this, much was learned about the classification of services, the minimization of response burden, and the use of a profiling survey as the context in which to do such a study.

FURTHER INFORMATION

The contact person for this survey is Laurie Hill (613-951-3494), Services Division.

TABLE 1. Business Services

Business Services

Legal Services

Taxation Services Accounting Services Finance Department Total

Market Research Service PR Services Advertising Services Marketing Department Total

Computer Consultancy Data Processing Computer Centre Total

Engineering Services

Architectural Services

Management Consultancy

Miscellaneous Support and Maintenance

TABLE 2. Respondent distribution: by revenue

Revenue range \$millions	Number of respondents	Revenue \$millions			
250 and over	4	1969			
100 - 249	37	5066			
75 - 99	19	1638			
50 - 74	50	3002			
25 - 49	134	4543			
10 - 24	202	3153			
under 10	60	153			
not available	8				
Total	512	19525			

TABLE 3. Respondent distribution: by complexity

Number of legal entities	Number of divisions	Number of respondents	Revenue \$millions
more than one	more than one none	99 234	4719 9423
one	more than one none	17 138	750 3 82 8
not available		24	805
Total		512	19525

TABLE 4. Respondent distribution: by industrial classification

Industrial classification	Number of respondents	Revenue \$millions
Primary industries Manufacturing Construction, transportation and	9 86	215 4349
storage, communications and other utilities Wholesale trade Retail trade	40 159 98 66	1269 5347 3139 2948
Finance, insurance and real estate Business service industries All other service industries	33 7	1454 225
Classification not available	14	579
Total	512	19525

TABLE 5. Respondent distribution: by regional office

Regional office	Number of respondents	Revenue \$millions			
St. John's Halifax Montreal Toronto Winnipeg and Edmonton	9 11 138 199	423 294 3957 8676			
Vancouver Total	107 512	4249 19525			

TABLE 6. The use of business services by enterprises categorized by revenue

Business services	Percentage of respondents in the revenue category, which use the service (revenue in \$millions)										
	All	Less than \$10M	\$10M to \$24M	\$25M to \$49M	\$50M to \$99M	\$100M and above					
Legal Services	98	93	98	99	99	95					
Taxation Services	66	57	62	68	75	73					
Accounting Services	71	71	67	72	80	76					
Finance Department Total	32	33	39	31	23	27					
At least one Financial Service	100	100	100	100	100	100					
Market Research Services	38	26	30	41	51	56					
PR Services	30	12	25	35	36	51					
Advertising Services	70	69	68	77	65	71					
Marketing Department Total	8	3	8	7	9	15					
At least one Marketing Service	81	74	78	85	84	88					
Computer Consultancy	59	55	58	62	64	51					
Data Processing	71	78	67	72	75	73					
Computer Centre Total	11	7	10	12	12	22					
At least one Computing Service	88	84	86	89	90	98					
Engineering Services	38	29	34	40	45	54					
Architectural Services	25	19	25	26	20	32					
Management Consultancy	30	14	28	37	30	41					
Miscellaneous Support	72	66	67	77	74	88					

TABLE 7. The use of business services by enterprises categorized by complexity

	Percentage of respondents in the category, which use the service									
Business Services	More than o	one legal	One legal entity							
	more than one division	no divisions	more than one division	no divisions						
Legal Services	100	97	100	96						
Taxation Services	65	67	53	65						
Accounting Services	70	71	53	75						
Finance Department Total At least one Financial	32	34	47	30						
Service	100	100	100	100						
Market Research Services	39	37	29	38						
PR Services	34	32	41	23						
Advertising Services	71	66	76	78						
Marketing Department Total At least one Marketing	8	8	12	7						
Service	83	76	94	87						
Computer Consultancy	66	58	76	56						
Data Processing	74	71	82	70						
Computer Centre Total At least one Computing	12	11	б	12						
Service	93	85	94	89						
Engineering Services	46	41	29	25						
Architectural Services	29	23	29	22						
Management Consultancy	37	29	35	27						
Miscellaneous Support	77	70	82	71						

TABLE 8. The use of business services by enterprises categorized by industrial classification

	Percentage service	of respondents in	the industry	categor	y, which use	the	
Business services	Manufac- turing	Construction, transportation and storage, communications	Wholesale trade	Retail trade	Finance, insurance, real estate	Business services	
Legal Services	97	98	98	98	98	97	
Taxation Services	67	65	69	63	65	75	
Accounting Services	74	68	73	69	67	84	
Finance Department Total At least one Financial	28	35	31	38	41	13	
Service	100	100	100	100	100	100	
Market Research Services	36	23	47	28	48	41	
PR Services	30	25	30	21	41	44	
Advertising Services	59	73	72	81	74	69	
Marketing Department Total At least one Marketing	7	3	6	5	11	6	
Service	71	75	83	88	83	78	
Computer Consultancy	67	50	64	49	59	63	
Data Processing	73	68	72	72	77	66	
Computer Centre Total At least one Computing	13	10	11	7	11	13	
Service	92	85	90	83	89	81	
Engineering Services	67	60	26	16	44	44	
Architectural Services	26	45	13	24	. 36	_	
Management Consultancy	34	23	27	22	42		
Miscellaneous Support	64	75	75	72	. 71	78	

TABLE 9. The use of business services by enterprises, categorized by regional office conducting the survey

Percentage of respondents surveyed by the regional office, which use the service **Business services** Winnipeg St. John's Αll Vancouver and Toronto Montreal and Edmonton Halifax Legal Services **Taxation Services** Accounting Services Finance Department Total At least one Financial Service Market Research Services PR Services Advertising Services Marketing Department Total At least one Marketing Service Computer Consultancy Data Processing Computer Centre Total At least one Computing Service Engineering Services **Architectural Services** Management Consultancy Miscellaneous Support

⁻ amount too small to be expressed.

TABLE 10. Business services provided in-house, from outside, or both, categorized by revenue

	Percentage of respondents in the category, giving source of service used (revenue in \$millions)												
Business services	All		•	Less	than \$1	ОМ	\$10M to \$24M						
	In	Out	Both	ln .	Out	Both	in	Out	Both				
Legal Services	2	91	7	2	93	6	3	91	6				
Taxation Services	8	70	23	9	67	24	4	80	16				
Accounting Services	45	13	43	61	7	32	41	22 26	37 69				
Finance Department Total	4	25	69	40	58	42 27	4 56	30	15				
Market Research Services	40	34	26	40 57	33 14	27 29	60	24	16				
PR Services	51 24	32 48	17 28	15	68	18	30	41	29				
Advertising Services	24 24	46 29	44	50	50		29	24	41				
Marketing Department Total	19	62	19	13	75	13	10	70	19				
Computer Consultancy Data Processing	80	9	11	78	16	7	77	10	13				
Computer Centre Total	38	17	41	75		25	38	24	29				
Engineering Services	48	35	16	47	35	18	45	38	16				
Architectural Services	18	75	6	27	73	••	18	75	6				
	\$251	vi to \$4	9M	\$501	V to \$9	9M	\$100M and above						
	ln	Out	Both	۱n	Out	Both	ln	Out	Both				
Legal Services	2	92	6		94	6	3	79	18				
Taxation Services	9	69	22	13	60	27	7	50	43				
Accounting Services	41	8	51	42	7	51	55		45				
Finance Department Total	5	20	76	13		75		27	73				
Market Research Services	36	35	29	34	37	29	17	43 57	39 19				
PR Services	51	32	17	52	28	20	24 17	57 52	31				
Advertising Services	23	50	27	18 33	47 50	36 17	17	52	100				
Marketing Department Total	20	40 54	40 19	30	50 52	18	29	48	2				
Computer Consultancy	27 82	5 4 7	10	81	10	10	93		-				
Data Processing Computer Centre Total	25	19	56	75		25	11	22	6				
Engineering Services	50	37	13	55	32	13	36	32	3				
Architectural Services	11	83	3	21	64	14	31	62	-				

⁻⁻ amount too small to be expressed.

TABLE 11. Business services provided in-house, from outside, or both, categorized by complexity

,	Perduse	-	ge of res	spond	ients l	n the ca	ategor	y, givi	ng sour	ce of	the se	ervice	
	Mor	e thai	n one le	egal e	ntity	One	One legal entity						
Business services		e thai	п опе	No divisions			More than one division			No divisions			
4.	I n	Out	Both	ln	Out	Both	ln	Out	Both	1n	Out	Both	
Legal Services	1	87	12	3	91	6		94	6	2	93	5	
Taxation Services	11	55	34	9	71	21	11	67	22	3	81	16	
Accounting Services	42	10	48	45	12	43	44		56	42	17	42	
Finance Department Total	6	13	75	5	34	61		13	88	2	24	73	
Market Research Services	41	23	36	40	30	30	20	60	20	40	45	15	
PR Services	41	41	18	45	31	24	29	71		75	16	9	
Advertising Services	20	47	33	24	48	28	23	31	46	26		23	
Marketing Department Total	13	38	50	32	37	32	_	50	50	33	11	44	
Computer Consultancy	20	54	26	21	60	19	8	62	31	16	73	12	
Data Processing	79	В	12	85	7	7	86		14	69	13	18	
Computer Centre Total	42		25	44	16	40			100	31	19	44	
Engineering Services Architectural Services	37 10	41 76	22 14	58 25	29 72	11 2	40	40 80	20 20	40 23	49 74	11 3	

⁻⁻ amount too small to be expressed.

TABLE 12. Business services provided in-house, from outside, or both, categorized by industrial classification

	Percentage of respondents in the category, giving source of the service used													
Business services	A	II.			į	Manufacturing					Construction, transportation and storage, communications			
	lr	1	Out	Both	ı	n	Ou	ıt	Both	ln	(Dut	Both	
Legal Services Taxation Services Accounting Services Finance Department Total Market Research Services PR Services Advertising Services Marketing Department Total Computer Consultancy Data Processing Computer Centre Total Engineering Services Architectural Services	4 4 5 2 2 1 8 3	2 8 5 4 0 1 4 4 9 9 9 8 8 8 8 8	91 70 13 25 34 32 48 29 62 9 17 35 75	7 23 43 69 26 17 28 44 19 11 41 16 6		5 5 61 13 39 77 27 50 22 76 36 57 32		9 1 9 3 7 7 2 3	13 36 31 58 32 16 33 16 11 45 24	4 52 7 11 50 24 20 78 25 25		95 62 4 36 44 30 59 100 60 7 50 38 78	5 35 44 57 44 20 17 20 15 25 38 11	
	Wh trac	olesa de	ile	Ret	tail trade			Finance, insurance, real estate			Business services			
	ln	Out	Both	ı In	Out	Bot	h	ln	Out	Both	In	Out	Both	
Legal Services Taxation Services Accounting Services Finance Department Total Market Research Services PR Services Advertising Services Marketing Department Total Computer Consultancy Data Processing Computer Centre Total Engineering Services Architectural Services	1 8 43 45 54 25 33 16 87 50 63 25	67 6 11 37	17 44 71 24 21 32 44 18 7	3 32 5 44 52 19 40 19 76 43 13	33 48 20 65 10 14 75	1 3 4 1 1 2	2370743074996	3 5 32 38 30 20 13 75 52 17	43 45	11 30 55 70 38 22 33 57 21 14 57 3	6 17 44 54 36 36 25 86 75 57	35 5 36	13 17 44 75 31 29 27 50 40 10 25 7	

⁻⁻ amount too small to be expressed.

TABLE 13. Business services provided in-house, from outside, or both, categorized by regional office conducting the survey

	Percentage of respondents in the category, giving source of the service used												
Business services	All			Vancouver			Toronto			Montreal			
	ln	Out	Both	ln	Out	Both	in	Out	Both	ln	Out	Both	
Legal Services	2	91	7	4	91	5	2	90	8	2	90	8	
Taxation Services	8	70	23	5	63	32	11	56	33	5	84	11	
Accounting Services	45	13	43	29	24	47	36	11	53	52	13	35	
Finance Department Total	4	25	69	4	23	71	3	9	85	5	62	33	
Market Research Services	40	34	26	46	32	21	37	30	33	53	31	17	
PR Services	51	32	17	40	27	33	54	31	15	52		10	
Advertising Services	24	48	28	21	43	36	23	51	26	27	52	20	
Marketing Department Total	24	29	44	14	43	43	14	32	50	38		38	
Computer Consultancy	19	62	19	22	53	25	20	60	20	16		20	
Data Processing	80	9	11	76	9	15	82		10	80	_	12	
Computer Centre Total	38	17	41	30	20	50	34	16	45	60		20	
Engineering Services	48	35	16	26		21	57	29	14	50		17	
Architectural Services	18	76	6	9	86		16	74	10	36	64		

⁻⁻ amount too small to be expressed.

TABLE 14. For respondents producing services in-house only: components of the cost of in-house services

Business services	Percentage of those respondents reporting on cost components, which reported that the cost included direct costs(D), overheads(O), and purchase of services(P), in the following combinations:										
	Only			Both	All of						
	D	0	P	D+O	D+P	O+P	D+O+P				
Legal Services	100										
Taxation Services			20	80							
Accounting Services	17	4	2	58	4		15				
Finance Department Total	33			33			33				
Market Research Services	5			79			16				
PR Services	16		4	72	-	•-	8				
Advertising Services	14	6	6	66	-		9				
Marketing Department Total	==	-	-	60			40				
Computer Consultancy	27			55	18						
Data Processing	20	2	1	60		2	15				
Computer Centre Total	22			61			17				
Engineering Services	18	••		76			6				
Architectural Services	50			50	_						

Note: Answers to multiple choice questions may not add to 100 per cent due to rounding. -- amount too small to be expressed.

TABLE 15. For respondents producing services in-house: source of the services and accounting practice

	Percentage of respondents reporting in-house services produced by head office(HO), by divisions(Div), or by both, and if the service is produced in a division, whether the head office keeps accounts of services produced there as well as in head office									
Business services	In-ho	use onl	у		Both	in-hous	e and p	ourchase		
	но	Div.	Both	HO keeps accounts	но	Div.	Both	HO keeps accounts		
Legal Services	89		11	11	54	_	19	26		
Taxation Services	92	4	4	19	35		5	9		
Accounting Services	8 5	4	9	29	44		10	17		
Finance Department Total	86	14		29	42	3	4	11 16		
Market Research Services	92	3	5	26	37	2	12 7	7		
PR Services	85	5	8	28 33	41 52		6	13		
Advertising Services	90 90	5	5	33 40	28	6	6	17		
Marketing Department Total Computer Consultancy	91	2	7	19	34	3	7	17		
Data Processing	86	3	10	28	43		13	10		
Computer Centre Total	82	9	9	32	38	8		4		
Engineering Services	81	6	11	29	41	16	3	19		
Architectural Services	83	9	9	52	29	14				

⁻ amount too small to be expressed.

TABLE 16. For respondents producing services in-house and contracting out for the same services: components of the cost of in-house services

Percentage of those respondents reporting on cost components, which reported that the cost included direct costs(D), overheads(O), and purchase of services(P), in the following combinations: **Business services** All of Only Both Р D+P O+P D+O+P O+0 D Legal Services Taxation Services Accounting Services Finance Department Total Market Research Services PR Services Advertising Services Marketing Department Total --Computer Consultancy Data Processing Computer Centre Total В **Engineering Services Architectural Services**

Note: Answers to multiple choice questions may not add to 100 per cent due to rounding.

⁻⁻ amount too small to be expressed.

TABLE 17. For respondents purchasing services only: percentage giving a value, and volume trends

49 40 54 50	Down 7 5 4	43 47 20	Up 25 28 33	Down	Same 62 59
49 40 54 50	7 5 4	43 47 20	25 28	12 5	62 59
40 54 50	5 4	47 20	28	5	62 59 43
54 50	4	20			
50			33	7	43
	7			_	
	-	40	40	7	50
57	6		37	11	48
57	2		33	12	49
54			38	6	54
42			25	8	56
60			39	15	41
				_	47 50
					-
					49 48
					50 60
1	0 70 1 54 1 56 3 43	70 70 1 54 12 1 56 12 3 43 4	0 70 30 1 54 12 30 1 56 12 27 3 43 4 43	0 70 30 40 1 54 12 30 33 1 56 12 27 34 3 43 4 43 21	0 70 30 40 10 1 54 12 30 33 16 1 56 12 27 34 13

⁻⁻ amount too small to be expressed.

TABLE 18. For respondents producing services in-house only: percentage giving an internal cost, and volume trends

Percentage	Percentage reporting a change in volume consumed:						
giving an internal cost	Sinc	e 1984		Expe	ected by	1990	
	Up	Down	Same	Up	Down	Same	
11	56	11	33	11		78	
19	46	12	42	23	-	73	
33	47	8	42		5	61	
						57	
		_				52	
						54	
• • • • • • • • • • • • • • • • • • • •		12		-		50	
		-				50	
		•			-	63	
		5				49	
						41	
		• -			1	52 61	
	giving an internal cost	Percentage giving an internal Sinc cost Up 11 56 19 46 33 47 43 57 25 49 33 52 41 53 60 50 21 54 35 65 82 50 40 53	Percentage giving an internal cost Up Down 11 56 11 19 46 12 33 47 8 43 57 14 25 49 9 33 52 11 41 53 12 60 50 21 54 7 35 65 5 82 50 40 53 10	Percentage giving an internal cost Up Down Same 11 56 11 33 19 46 12 42 33 47 8 42 43 57 14 29 25 49 9 39 33 52 11 33 41 53 12 33 41 53 12 33 60 50 40 21 54 7 39 35 65 5 27 82 50 50 40 53 10 34	Percentage giving an internal cost Up Down Same Up 11 56 11 33 11 19 46 12 42 23 33 47 8 42 32 43 57 14 29 43 25 49 9 39 40 33 52 11 33 38 41 53 12 33 44 60 50 40 20 21 54 7 39 33 35 65 5 5 27 44 82 50 50 55 40 53 10 34 44	Percentage giving an internal cost Up Down Same Up Down 11 56 11 33 11 19 46 12 42 23 33 47 8 42 32 5 43 57 14 29 43 25 49 9 39 40 5 33 52 11 33 38 4 41 53 12 33 44 3 60 50 40 20 10 21 54 7 39 33 4 35 65 5 27 44 3 82 50 50 55 5 40 53 10 34 44 1	

⁻⁻ amount too small to be expressed.

TABLE 19. For respondents purchasing services, who provide the same service in-house: percentage giving a value of purchases, and volume trends

	Percentage	Percentage reporting a change in volume purchased:						
Business services	giving a value of purchase	Sinc	e 1984		Ехре	ected by	1990	
		Up	Down	Same	Uр	Down	Same	
Legal Services	43	17	3	31	11	3	34	
Taxation Services	53	34	3	27	18	4	42	
Accounting Services	39	29	2	20	17	4	30	
Finance Department Total	54	30	4	23	14	9	34	
Market Research Services	33	33	2	18	22	4	27	
PR Services	26	33	7	15	19	7	30	
Advertising Services	38	30	1	15	20	5	22	
Marketing Department Total	44	44		11	17	-	39	
Computer Consultancy	43	38	9	10	12	16	29	
Data Processing	35	28		23	15	15	20	
Computer Centre Total	46	50		8	21	4	33	
Engineering Services	38	9		41	6	6	38	
Architectural Services	43	29		14		29	14	

⁻⁻ amount too small to be expressed.

TABLE 20. For respondents using in-house services, who provide the same service through contracting out: percentage giving an internal cost, and volume trends

	Percentage	Percentage reporting a change in volume consumed:						
Business services	giving an internal cost	Sinc	e 1984		Expe	ected by	1990	
		Up	Down	Same	Up	Down	Same	
Legal Services	43	43	6	11	34	9	17	
Taxation Services	23	23	1	13	16	3	19	
Accounting Services	38	31	2	20	25	2	24	
Finance Department Total	44	29	4	16	25	4	20	
Market Research Services	37	29		20	27		22	
PR Services	37	26	7	11	33		11	
Advertising Services	50	37	2	16	28	3	23	
Marketing Department Total	44	44			39	-	6	
Computer Consultancy	31	31	3	9	21	2	21	
Data Processing	38	38	3	15	30		25	
Computer Centre Total	46	33		13	33	4	8	
Engineering Services	44	41	••	16	16	6	38	
Architectural Services	57	43			43			

⁻⁻ amount too small to be expressed.

TABLE 21. For respondents who provide the same service both in-house, and through contracting out: percentage of service purchased, and trends in percentage purchased

	Percentage	Percentage reporting a change in percentage purchased:						
Business services	of service purchased outside	Sinc	e 1984		Expected by 1990			
		Up	Down	Same	Uр	Down	Same	
Legal Services	56	26	6	20	6	14	40	
Taxation Services	49	6	4	17	4	4	25	
Accounting Services	15	7	6	27	4	6	39 33	
Finance Department Total	21	7	6	31	9 6	6 4	39	
Market Research Services	33	8	4	33	4		41	
PR Services	40	15	4	26 31	6	5	44	
Advertising Services	55	19	2	17	17		28	
Marketing Department Total	54 45	22 9	5	19	7	9	29	
Computer Consultancy	45 27	10	9 8	23	10	10	35	
Data Processing	16	13		29	17		25	
Computer Centre Total	38	13	6	28	3	9	44	
Engineering Services Architectural Services	15	29			14	14	14	

⁻⁻ amount too small to be expressed.