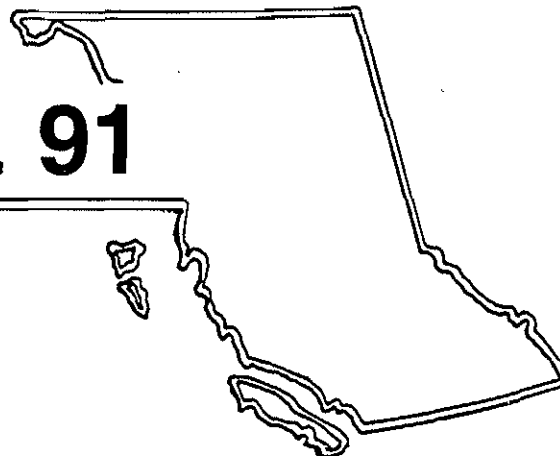


# ROLLCALL 91

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## A STATUS REPORT OF SELECTED HEALTH PERSONNEL IN THE PROVINCE OF BRITISH COLUMBIA

**HHRU 92:2**

Health Human Resources Unit  
Centre for Health Services and Policy Research  
University of British Columbia  
Vancouver, British Columbia V6T 1Z3

May 1992

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This document is one of a series describing the distribution of health human resources in the Province of British Columbia. These reports are working documents, prepared for the Health Human Resources Working Group of the Ministry of Health, and comments or suggestions are welcome.

# THE UNIVERSITY OF BRITISH COLUMBIA



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May 15, 1992

Dr. Doug Bigelow  
Chair  
Health Human Resources Working Group  
Ministry of Health  
1515 Blanshard Street  
Victoria, B.C. V8W 3C8

Dear Dr. Bigelow:

It is with pleasure that I transmit to you and the members of the Health Human Resources Working Group the latest edition of our ROLLCALL series, ROLLCALL 91. This edition has been expanded to include information on cardiovascular perfusionists and emergency medical assistants, bringing the number of groups covered in the publication to thirty-five. ROLLCALL 91 contains numbers, numbers per 10,000 population, rates of change in number and relative to population change (where comparable data were available), and, for selected groups, disaggregations of data by specialty or service area. Age and gender information for a number of groups for which these data were available have been included for the first time in this edition. As usual, each of the thirty-five group-specific chapters contains information broken down by Regional Hospital District.

Data for the province as a whole suggest that the number of personnel relative to population increased in 1991 for most of the health human resources groups included in ROLLCALL 91. Ratios for specific regions of the province, however, may have increased or decreased as a result of changes in the numbers of personnel and/or varying regional population growth rates. Percentage distributions of health care personnel suggest that while the metropolitan regions of British Columbia comprised about 57 percent of the total provincial population in 1991, approximately 72 percent of the physicians, 68 percent of the pharmacists, and 63 percent of the registered nurses working in the province were resident in these areas. Compared with 1989, this represents a slightly more even distribution of these personnel relative to the province's population, although the current shift in the population toward urban regions may in large part be responsible.

Each new edition of ROLLCALL may differ somewhat from those of previous years as a result of redesigned and improved databases of the professional associations and licensing bodies that provide data for publication. Wherever possible, however, inter-temporal consistency is emphasized.

ROLLCALL 91 represents the culmination of two years of file updating and editing, surveying, text and table production and verification, and data analysis. As in past years, all of the staff of the HHRU were involved in the project. Financial support from the Ministry of Health and the University of British Columbia is gratefully acknowledged. We are indebted to the staff and officials of the professional groups who contributed to the completion of this report.

We look forward to receiving comments and suggestions from the members of the Working Group as well as from other readers.

Sincerely yours,

Arminée Kazanjian, Dr. Soc.  
Associate Director

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## FOREWORD

**ROLLCALL 91** is the tenth situation report produced by the Health Human Resources Unit (HHRU) at the University of British Columbia. It describes the distribution of selected health personnel in British Columbia by Regional Hospital District. Formerly the Health Manpower Research Unit of the Division of Health Services Research and Development, the HHRU is now part of the Centre for Health Services and Policy Research, which was officially established in July 1991 at the University of British Columbia. Information about the province's health personnel groups is published in **ROLLCALL** in expectation that it will be used for health human resources planning by the principal recipients of the report -- the Health Human Resources Working Group of the Province of British Columbia, the professional associations and licensing or registration bodies in the Province.

Interest in health human resources planning has been extremely high in the past few years, primarily because of increasing concern about the effective use of public monies devoted to health services and because of legislative changes in regulation. Recently, these same issues were highlighted in the British Columbia Royal Commission on Health Care and Costs. In recognition of these issues, this report provides some of the health human resource data that are prerequisite for rational planning purposes and for routine procedures of public accountability.

**ROLLCALL 91** provides a snapshot picture of the distribution of health human resources in British Columbia in the last two years. It may contain statistics that do not readily reconcile with the British Columbia component of the national document *Health Personnel in Canada*, due to differences in dates of record and in research methods. That publication reviews provincial variations, using nationally consistent definitions and national data sources. **ROLLCALL** concentrates on examining the health human resources situation in British Columbia by Regional Hospital District, using official and consistently edited provincial data which have been assembled and analyzed in conjunction with provincial licensing authorities and professional associations.

The HHRU's predecessor, the Health Manpower Research Unit, was initially funded as a demonstration project by the Ministry of Health in September 1973. It was charged with the development of the provincial health human resources database and the creation of models to analyze the forces influencing human resources levels and the effect of certain policy options upon the type and distribution of stock. The Unit has produced a number of reports, directories, and in-depth analyses of human resources data for the professional bodies, the Provincial Health Human Resources Working Group and the Federal/Provincial Advisory Committee on Health Human Resources. Since 1973, a large and varied amount of data have been collected by the Unit to provide research support to planning and policy decisions. The human resources components of this database require varying degrees of maintenance to ensure its quality and currency.

The raw data sources used in this report are of two broad types:

### 1. Computer-based and updated regularly by Colleges or Associations

<u>College or Association</u>	<u>Personnel</u>
College of Dental Surgeons of British Columbia	Certified Dental Assistants Dental Hygienists and Dentists
College of Pharmacists of British Columbia	Pharmacists
College of Physicians and Surgeons of British Columbia	Osteopaths and Physicians
Association of Physiotherapists and Massage Practitioners of British Columbia	Physiotherapists and Massage Practitioners
British Columbia Council of Practical Nurses	Licensed Practical Nurses
British Columbia Dietitians' and Nutritionists' Association	Registered Dietitians and Nutritionists
Emergency Medical Assistants Licensing Branch British Columbia Ministry of Health	Emergency Medical Assistants
Registered Nurses Association of British Columbia	Registered Nurses
Registered Psychiatric Nurses Association of British Columbia	Registered Psychiatric Nurses
British Columbia Society of Occupational Therapists	Occupational Therapists
College of Psychologists of British Columbia	Psychologists

### 2. Membership lists collected by the Health Human Resources Unit

For the remaining groups, data are collected biennially from information provided by the professional associations. Those data are supplemented, where necessary, through questionnaire surveys of individuals in certain health occupations. However, only the computer-based groups can be examined in a longitudinal fashion to analyze transitions within and between regional districts over a specified period.

Although a variety of organizations have provided the Health Human Resources Unit with the data published in **ROLLCALL**, the Unit is solely responsible for all the material presented in the report (chapter tables, the Overview, and the Appendices).

Readers who have used **ROLLCALL** in previous years will note several changes and additions to the 1991 edition. Rather than a simple alphabetical listing, the human resource groups covered in **ROLLCALL 91** have been reorganized into nine general service areas. This reorganization was undertaken to more easily facilitate comparisons of groups in similar service areas, as well as to help establish a standard format for **ROLLCALL** and other HHRU publications (ie. **PRODUCTION**). This year, **ROLLCALL** also extends its coverage to include data on emergency medical assistants and cardiovascular perfusionists, bringing the total number of groups included in the report to thirty-five. While both groups were included in recognition of the distinct roles they play in the health care system, their inclusion was made possible as a result of the availability of reasonably reliable and comprehensive data. Since definitions regarding the boundaries of the health care sector vary, there are inevitably certain groups that might have been included had the boundaries been different (e.g. veterinarians). There may also be small or large health personnel groups for which we were unable to secure data because of the non-existence of a formal licensing body or professional association, the absence of a membership list or, more generally, the unavailability of an accurate source of required information.

**ROLLCALL 91** has also been expanded to include age and sex information on a number of the province's health human resource groups. For three groups, age and gender data were derived from the results of Health Human Resources Unit surveys. For fourteen others, these data were compiled from membership or registration databases obtained with the permission of their professional associations or registration boards. Information on gender was not available for emergency medical assistants, but age data are presented for this group. Analysis of change tables for physiotherapists, registered psychiatric nurses and licensed practical nurses have been added this year as a reflection of the increased stability of licensing databases maintained by these groups.

All data are reported by Regional Hospital District (RHD). Supplementary breakdowns by local health area, by community, and by HHRU designated region are available on request. Because actual census figures are not yet available for British Columbia's regional hospital districts, population estimates made available by the Planning and Statistics Division of the British Columbia Ministry of Finance and Corporate Affairs<sup>1</sup> (see Appendix B) are the basis of many of the statistics that appear in **ROLLCALL**. All tables showing inter-temporal comparisons of personnel per 10,000 population distributions for 1989 and 1991 have been computed using the most recent estimates. The 1989 personnel to population ratios that appear in **ROLLCALL 91** differ significantly from those reported in **ROLLCALL 89** and **ROLLCALL UPDATE 90** because they have been recalculated based on these more accurate estimates.

While each new edition of **ROLLCALL** reflects improvements in accuracy and detail, at times these improvements may render comparisons with the previous **ROLLCALL** reports meaningless. The use of membership as a proxy for stock, for instance, is still necessary for many groups where membership is not compulsory. While comparative data are provided for these groups if there have been no major changes in membership classification, inter-temporal inferences should be made with caution.

Regional inequalities may or may not indicate regional deficiencies or excesses. While this may indeed be the case in certain instances, the data provided in the following pages are not a sufficient base from which to identify such deficiencies, since many factors interact in determining *optimal* mix and numbers of health care personnel in any district. The demography and needs of the population, the service functions of

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<sup>1</sup>Population estimates used for statistics in **ROLLCALL 91** are based on the P.E.O.P.L.E. Projection #16 provided by the Population Sector, Planning and Statistics Division, British Columbia Ministry of Finance and Corporate Affairs.

possible transfer of functions between members of the formal and informal health care provider groups must all be considered in the use of these statistics.

**ROLLCALL 91** represents the culmination of two years of file maintenance and updating, topped off most recently with six intensive months of surveying, consistency checks, table generation, definition and other text verification, proofreading and analysis. The team working on this edition included Patrick Wong Fung, Kerry Kerluke, Brian McCashin, Harold Yip (programming and file updating); Donna Abbott (coding, inputting data and proofreading drafts); Lars Aplan, Laura Wood (surveys of certain groups, editing and updating personnel definitions, compiling statutory information). Project implementation and report production were coordinated by Lars Aplan, Brian McCashin and Laura Wood. Computer analyses were run under UNIX SunOS™ 4.1, DOS™ machines and the UBC mainframe (IBM™ 3480), using SAS™ 6.07, Foxbase™ and locally written software. Tables, charts and text were produced with Excel™ 3.0, TEXTFORM™ (text processing language) and WordPerfect™ 5.1. A Xerox™ 9700 laser printer was used for mainframe printing. PC-based printing was done on a QMS 815 Postscript™ laser printer.

Finally, financial support from the University of British Columbia and the British Columbia Ministry of Health is gratefully acknowledged.

## OVERVIEW

### I. INTRODUCTION

The main purpose of **ROLLCALL** is to enumerate and describe each of the thirty-five health human resource groups in British Columbia for which reliable data were available. This section is intended to present health human resource group data in a province-wide context by providing relative supply figures. The data are reviewed with the object of highlighting possible trends in the growth of individual personnel groups. In Part III of this section, the data are assessed from the standpoint of how personnel supply compares for metropolitan and non-metropolitan areas of the province. Caution is advised, however, in the interpretation and utilization of some of these comparative data because sources of data are varied and the degree of accuracy in some instances cannot be ascertained.

The analyses in this section do not provide conclusive information regarding health human resources imbalances. To draw conclusions about maldistribution from inter-regional comparisons of personnel ratios would be misleading since regions have varying supply requirements due to differing population characteristics and variations in the complexity of services provided. The personnel to population ratios in the following tables do not adjust for such factors and should be used only as a basis for informed discussion and further investigation. As well, since population estimates for the province's Regional Hospital Districts (RHDs) are from the most recent Projection Model<sup>1</sup>, the 1989 figures presented here differ significantly from the corresponding figures that appeared in **ROLLCALL 89** and **ROLLCALL UPDATE 90**. Therefore, caution is advised when interpreting changes in some of the statistics that follow.

### II. PROVINCIAL SUMMARY

#### a) Personnel to Population Ratios

Table 1 presents a provincial overview of the thirty-five group-specific chapters of this report. The table provides information about numbers for 1991 as well as comparisons of personnel to population ratios for 1989 and 1991. Readers are cautioned not to compare these latter ratios with those which appeared in **ROLLCALL 89**, because the 1991 edition is based on more accurate population estimates.

The source and specifications of data presented for each group is outlined in Table 2. Where inter-temporal comparisons are concerned, varying nomenclature and definitions may sometimes limit the comparability of the data. As well, since the data are drawn from sources which have varying registration, licensing and membership stipulations, comparisons between groups should be made with caution. Where active registration and/or licensure is a requirement and mandatory by legislation, such as for physicians and dentists, the figures presented are firm and comprehensive. Where registration is not mandatory, as in the case of occupational therapists, figures only represent the registered members of those groups.

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<sup>1</sup>As noted earlier, population estimates for **ROLLCALL 91** are from the P.E.O.P.L.E. Projection Model - Projection #16, supplied by the Population Sector, Planning and Statistics Division, British Columbia Ministry of Finance and Corporate Affairs.

Table 1

**Number of Personnel<sup>1</sup>, 1991  
and Personnel per 10,000 Population Ratios in 1991 and 1989**

Health Personnel Group	Number of		
	Personnel B.C. 1991	Ratio B.C. 1991 <sup>2</sup>	Ratio B.C. 1989 <sup>3</sup>
Audiologists & Speech/Language Pathologists	372	1.16	1.13
Cardiology Technologists	337	1.05	*
Cardiovascular Perfusionists	22	0.07	*
Certified Dental Assistants	3,843	12.00	11.40
Chiropractors	459	1.43	1.33
Clinical Engineers & Biomedical Eng. Techs	285	0.89	*
Dental Hygienists	914	2.85	2.70
Dental Technicians	425	1.33	1.31
Dentists	2,005	6.26	6.24
Denturists	189	0.59	0.66
Diagnostic Medical Sonographers	245	0.76	*
Emergency Medical Assistants	2,676	8.35	*
Food Service Supervisors	168	0.52	0.55
Health Record Personnel	361	1.13	0.98
Health Services Executives	456	1.42	*
Licensed Practical Nurses	4,842	15.12	15.01
Massage Practitioners	435	1.36	0.85
Medical Laboratory Technologists	2,843	8.88	8.58
Medical Radiation Technologists	1,334	4.16	3.75
Naturopathic Physicians	68	0.21	0.20
Occupational Therapists	509	1.59	1.27
Optometrists	242	0.76	0.74
Osteopaths	4	0.01	*
Pharmacists	2,418	7.55	7.48
Physicians	7,596	23.71	23.23
Physiotherapists	1,434	4.48	3.89
Podiatrists	69	0.22	0.18
Prosthetists & Orthotists	31	0.10	0.11
Psychologists	744	2.32	2.32
Public Health Inspectors	244	0.76	0.73
Registered Dietitians & Nutritionists	546	1.70	*
Registered Nurses	25,782	80.49	77.83
Registered Psychiatric Nurses	2,218	6.92	6.17
Respiratory Therapists	242	0.76	*
Social Workers in Health Care	767	2.39	*

<sup>1</sup> Number of Personnel may refer to those working in the field rather than total registrants or total members. See Table 2 for data specifications and sources.

<sup>2</sup> Estimated population, B.C., 1991 = 3203184. Source: See Appendix B.

<sup>3</sup> Estimated population, B.C., 1989 = 3053300. This figure is different from the corresponding figure in ROLLCALL 89; consequently, so are personnel to population ratios. See Foreword and Appendix B.

\*Indicates that data were unavailable for 1989 or that comparison with 1989 figures would be of limited value due to varying methods of data collection.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia



Table 2

## Data Specifications and Sources for Health Personnel Groups, 1991

Active Registrants <sup>1</sup>	Active Members <sup>2</sup>	All Members <sup>3</sup>	Respondents <sup>4</sup>
Certified Dental Assistants	Cardiology Technologists	Audiologists & Speech/Language Pathologists	Cardiovascular Perfusionists
Chiropractors	Health Record Personnel	Food Service Supervisors	Clinical Engineers & Biomedical Engineering Technologists
Dental Hygienists	Medical Laboratory Technologists	Health Services Executives	Diagnostic Medical Sonographers
Dental Technicians	Occupational Therapists	Medical Radiation Technologists	Social Workers in Health Care
Dentists	Registered Dietitians and Nutritionists	Prosthetists & Orthotists	
Denturists	Respiratory Therapists	Public Health Inspectors	
Emergency Medical Assistants			
Licensed Practical Nurses			
Massage Practitioners			
Naturopathic Physicians			
Optometrists			
Osteopaths			
Pharmacists			
Physicians			
Physiotherapists			
Podiatrists			
Psychologists			
Registered Nurses			
Registered Psychiatric Nurses			

<sup>1</sup>*Active Registrants* are discussed for groups which have mandatory registration or licensing requirements. Except for pharmacists, certified dental assistants, dentists, dental hygienists, and physicians, data include only those individuals whose registration signifies employment in their respective fields.

<sup>2</sup>*Active Members* are discussed for groups that do not have mandatory registration or licensing requirements but for which provincial associations provide reliable employment data or specify membership criteria and categories that allow identification of those employed in the field. Except for health record personnel and respiratory therapists, data include only those individuals whose membership signifies employment in their respective fields.

<sup>3</sup>*All Members* are discussed for groups that do not have mandatory registration or licensing requirements but for which provincial associations provided total membership numbers because existing membership categories do not differentiate between those who are employed in the field and those who are not. Accordingly, data include members who may or may not be employed in their respective fields.

<sup>4</sup>*All Respondents* are discussed for groups which were surveyed because they do not have mandatory registration or licensing requirements. Data from these surveys incorporate all respondents who met HHRU inclusion criteria.

For groups without any registration requirements, information has been collected from membership records, usually those of a provincial association. Membership categories sometimes include active/inactive designations. These, however, refer to membership status only and probably misrepresent the number of employed personnel in that field. The direction and degree of misrepresentation may also vary by group. The specification of such variations is beyond the scope of this report.

For groups that were the subject of HHRU surveys, the information presented is drawn from respondents who met HHRU inclusion criteria. These criteria usually entailed employment in the health sector, or employment in a position deemed to have an impact on health services in British Columbia.

In the tables that follow in this section, references to most groups apply only to those registrants who were employed in their respective fields. However, a number of exceptions should be noted. References to certified dental assistants, dental hygienists, pharmacists, physicians, health record personnel, respiratory therapists, audiologists and speech/language pathologists, health services executives, medical radiation technologists, prosthetists and orthotists, and public health inspectors include individuals who may or may not be employed in their respective fields. References to cardiovascular perfusionists, clinical engineers and biomedical engineering technologists and technicians and diagnostic medical sonographers apply to survey populations considered to be essentially comprehensive by the HHRU. References to social workers apply only to respondents to an HHRU survey of this group.<sup>2</sup>

In view of these limitations, the data in Table 1 show that, as in 1989, registered nurses are the most numerous of the health human resource groups, followed by directory active physicians and licensed practical nurses. (The osteopaths, who were reported in error in 1989 to be three in number, remain at their 1987 total of four; they are not included in any of these overview tables.) The totals shown for cardiovascular perfusionists, clinical engineers and biomedical engineering technologists and technicians, diagnostic medical sonographers and for social workers are based on the results of HHRU surveys. However, in the case of dental hygienists, initial enumeration was derived from registration data maintained by the College of Dental Surgeons of British Columbia while subsequent information is based on survey responses. Because of their essential accuracy and comprehensiveness, the survey universes for diagnostic medical sonographers and clinical engineers and biomedical engineering technologists were used for the initial enumeration of these groups. Subsequent information is based on survey responses. Information on social workers is based only on responses to the HHRU survey of this group. All of these survey populations were drawn from lists of employed personnel that had been provided by government, hospitals, professional associations and/or gathered in earlier surveys. The totals for health services executives, health record personnel, dietitians and nutritionists, respiratory therapists, cardiology technologists, and prosthetists and orthotists derive from membership lists of unverifiable comprehensiveness. These totals should be considered as estimates of the health human resource supply for those groups. Comparisons with data from previous years would be misleading and invalid.

In general, the personnel to population ratios reported in Table 1 show slight increases for most groups. The exceptions include food service supervisors, prosthetists and orthotists, and denturists, the numbers of which declined slightly. The largest increase is seen among registered nurses, followed by registered psychiatric nurses, certified dental assistants, physiotherapists, massage practitioners, physicians, and medical radiation technologists, in that order. Given the absence of comparable data, no personnel to population ratios for 1989 are presented for cardiovascular perfusionists, clinical engineers and biomedical technologists, cardiology technologists, prosthetists and orthotists, health services executives, registered dietitians and nutritionists, respiratory therapists, and social workers.

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<sup>2</sup>See Table 2 for a more complete listing of data specifications and sources for health personnel groups included in **ROLLCALL 91**.

b) Production Ratios

The information reported in Table 3 results from the combination of data from **ROLLCALL** and data from **PRODUCTION 91**. The production index is the ratio of the current number of active personnel in that group to the number who graduated in that discipline in 1991. Thus, the ratios for dental technicians, denturists, dentists, occupational therapists, physiotherapists, registered nurses, licensed practical nurses, and registered psychiatric nurses indicate the number of practitioners employed in the field for every new graduate in the discipline. For all the other groups, the ratios reflect the number of registered and/or licensed personnel relative to the number of new graduates.

Table 3 shows increases in the production indices for certified dental assistants, dentists, licensed practical nurses, pharmacists, physicians, registered nurses and registered psychiatric nurses. In particular, the figures highlight the continued trend of notable increases in the production indices for British Columbia's nursing groups. While there was one new graduate in nursing for every 24.3 registered nurses employed in nursing in 1987 and this index increased to 30.6 in 1989, there was only one new registered nurse graduate for every 36.8 nursing-employed RNs in 1991. The actual production of registered nurses rose over this period, but the continued rise in the production index is likely to be the result of an increased number of registered nurses employed in nursing. For LPNs, the increase in the index is most readily explained by a decline in the number of new graduates coupled with only a slight increase in the number of LPNs employed in the field. As in 1989, the increase in the index for physicians is probably due to an increase in the number of directory active physicians, since slightly more new graduates were produced in British Columbia in 1991 (122 versus 120 in 1989)<sup>3</sup>.

The decrease in the production index for physiotherapists is the result of a substantial increase in new graduates (from 21 in 1989/90 to 34 in 1991/92) and a moderate increase in the number of physiotherapists employed in the field. The moderate decrease in the index for occupational therapists is the result of an increase in graduates, from 24 in 1989/90 to 32 in 1991/92, and a notable increase in the numerator. The decrease in the production index for dental hygienists stems from another moderate increase in the numerator offset by another increase in new graduates (from 20 in 1987/88 to 38 in 1989/90 to 59 in 1991/92).<sup>4</sup>

The information from this index must be carefully interpreted in combination with other information about growth rates, surpluses and shortages, and/or possibilities for health human resource substitution in order to be used for educational program planning. The index shows the flow of training for selected occupations relative to existing supply; it is impossible to interpret these changes in flow as indicative of surplus employment in a particular field, or of over-production.

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<sup>3</sup>PRODUCTION 91.

<sup>4</sup>Ibid.

Table 3

**Production Index(1) for Selected(2) Health Personnel Groups,  
1987/88, 1989/90 and 1991/92(3)**

<b>Health Personnel Group</b>	<b>1987/88</b>	<b>1989/90</b>	<b>1991/92</b>
Certified Dental Assistants	7.5	9.5	12.6
Dental Hygienists	33.3	21.7	15.5
Dental Technicians/Denturists(4)	22.0	27.3	20.5
Dentists	48.6	48.8	50.1
Licensed Practical Nurses(5)	21.4	30.4	35.9
Occupational Therapists(6)	19.3	16.2	15.9
Pharmacists	19.7	18.3	21.8
Physicians(7)	53.7	59.1	62.3
Physiotherapists(6)	53.9	56.5	42.2
Registered Nurses (Diploma and Baccalaureate)(8)	24.3	30.6	36.8
Registered Psychiatric Nurses(5)	*	27.7	37.6

(1) Current Number Active in 1991 divided by Number Graduating in 1991/92.

Source of Active figures: ROLLCALL 91.

(2) Only those groups for which data are available on current number active and B.C. graduates, 1991/92, are included.

(3) Source: PRODUCTION 91.

(4) Includes for 1989/90 the Dental Technician program, and the Dental Mechanic (Denturist) program at VCC.

(5) Includes as numerator only nurses who indicated that they were employed in nursing. The production index for Registered Psychiatric Nurses in 1989/90 differs from the corresponding figure appearing in ROLLCALL 89 due to refinements in data analysis.

(6) Indices for 1987/88 and 1989/90 have been recalculated based on the number employed in each of these fields. As a result, these figures differ from the corresponding figures appearing in ROLLCALL 89.

(7) Calculated using all Directory Active Physicians (including postgraduate).

(8) Includes as numerator only RNs who indicated that they were employed in nursing; the denominator includes only nurses who graduated from basic programs, whether diploma or baccalaureate. Does not include post-RN baccalaureate graduates or graduates of access programs.

\* Indicates that comparable data were not available.

Prepared by:

Health Human Resources Unit

The University of British Columbia

c) Age and Sex

Table 4 displays age and sex information about each of the groups for which such data were available. The total number of males and females in each human resource group is organized according to standard age categories developed and used by Statistics Canada. Caution is advised when employing some of these figures, particularly where the number of personnel with unknown information is substantial in relation to the total group population, as with the certified dental assistants and the diagnostic medical sonographers.

For more than half of the groups shown in the table, women comprised more than two-thirds of the membership. The highest concentrations of female personnel, in both metropolitan and non-metropolitan areas, were among certified dental assistants, registered dietitians and nutritionists, registered nurses, dental hygienists and occupational therapists. For each of these groups, women comprised over 95 percent of the membership. Other groups with high concentrations of female personnel were licensed practical nurses, physiotherapists, diagnostic medical sonographers, registered psychiatric nurses, occupational therapists, and social workers, in that order. The only groups that were comprised of relatively equal proportions of males and females were pharmacists and psychologists. The only groups with overwhelmingly high concentrations of male personnel were podiatrists, clinical engineers and biomedical engineering technologists and technicians, dentists, and physicians, in that order.

For most groups, the highest proportions of personnel were in the category for 35 - 44 years of age. The exceptions to this norm were the psychologists, of whom approximately 45% were 45 - 54 years old. Certified dental assistants appeared to be the youngest personnel group. As shown in the table, their registration data indicate that approximately 85 percent of the members were under 35 years old, although the proportion should be viewed with some caution because of the large proportion of this group for which age was unknown. Dental hygienists also appeared to be a youthful group, with over 83 percent of hygienists who responded to an HHRU survey reporting that they were under 45 years of age.

The largest male-dominated personnel group was notably different from the largest female-dominated personnel group in relation to the proportion of its membership that was approaching retirement. Almost a quarter of the physician population (24.9%) was over 54 years of age. This was more than double the percentage of registered nurses (11.9%) who were approaching retirement. For pharmacists and psychologists, groups for which there was a fairly equal distribution of male and female personnel, there was also a more even distribution of personnel across most of the age categories. However, there appeared to be a concentration of psychologists in the middle-ranged age groups.

Table 4

Number of Personnel<sup>1</sup>

by Age and Sex

1991

12

Health Personnel Group <sup>2</sup>	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		65+		Subtotal		Unkn <sup>3</sup>	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Certified Dental Assistants	3	552	4	1197	0	269	0	35	0	1	0	1	7	2055	1781	3843
Clinical Engineers & Biomedical Eng. Techs	10	2	54	9	61	0	21	0	7	0	0	0	153	11	34	198
Dental Hygienists	1	59	5	264	7	253	6	55	0	2	0	0	19	633	65	717
Dentists	2	1	318	110	675	107	463	23	208	7	79	1	1745	249	11	2005
Diagnostic Medical Sonographers	0	1	7	38	10	49	1	10	0	2	0	1	18	101	78	197
Licensed Practical Nurses	8	157	92	1157	176	2298	116	1431	39	507	9	160	440	5710	19	6169
Massage Practitioners	7	14	43	154	76	171	20	40	9	7	5	2	160	388	68	616
Occupational Therapists	0	17	11	207	11	180	2	93	1	30	0	1	25	528	4	557
Pharmacists	75	123	276	403	409	372	207	129	206	42	77	11	1250	1080	88	2418
Physicians	1	0	701	444	1729	588	1464	247	1002	106	574	44	5471	1429	19	6919
Physiotherapists	5	31	75	378	80	550	36	288	17	85	5	17	218	1349	146	1713
Podiatrists	0	0	13	2	20	1	11	0	1	0	11	0	56	3	10	69
Psychologists	0	0	5	9	122	130	203	133	67	45	20	10	417	327	0	744
Registered Dietitians and Nutritionists	0	1	2	191	1	191	0	73	0	46	0	2	3	504	109	616
Registered Nurses	20	855	240	7032	322	9908	163	7206	39	3077	2	360	786	28438	42	29266
Registered Psychiatric Nurses	8	63	72	472	180	706	275	503	81	168	1	14	617	1926	64	2607
Social Workers in Health Care	0	7	23	86	88	179	80	139	21	39	2	3	214	453	100	767

<sup>1</sup>Only groups that provided age and sex information are included in this table.<sup>2</sup>Data specifications and sources are provided in Table 2.<sup>3</sup>Unknown.

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### III. METROPOLITAN AND NON-METROPOLITAN DISTRIBUTIONS OF PERSONNEL

Figure 1 shows the percentage distribution by metropolitan (Greater Vancouver and Capital), non-metropolitan (the rest of the province) and all of British Columbia for the ten largest groups of health care personnel. All other groups are included in the *Others* category. Across the entire province, directory active physicians and registered nurses account for about 52 percent of the ROLLCALL - reported personnel. Although these figures appear similar to those reported in ROLLCALL 89, a comparison with the 1989 data would be misleading since emergency medical assistants and cardiovascular perfusionists, who were not included in the 1989 enumeration, are included in the total count for 1991.

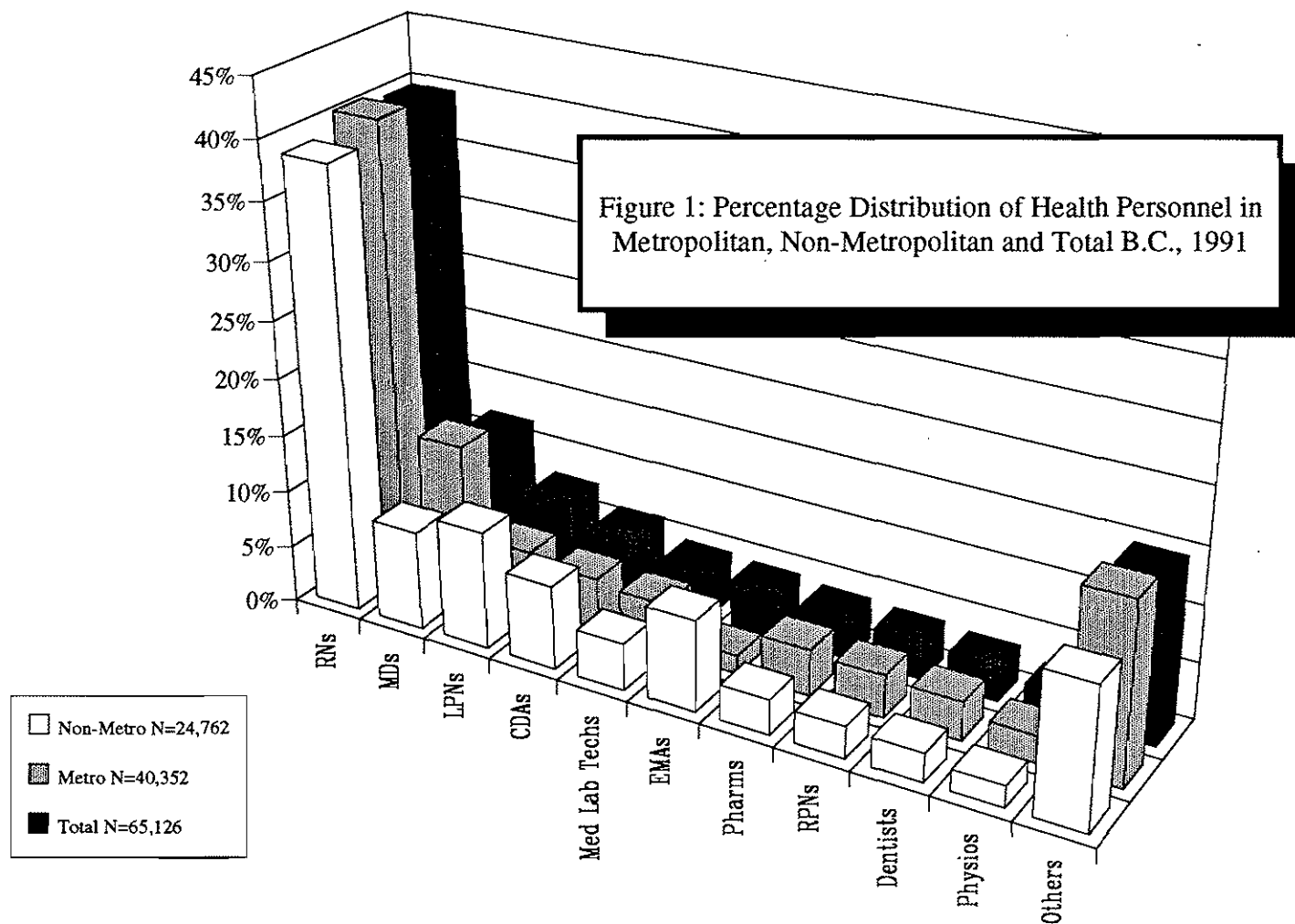
Personnel per 10,000 population statistics for the ten health human resources groups with the largest non-metropolitan personnel to population ratios are shown in Figure 2. As in 1987 and in 1989, licensed practical nurses and certified dental assistants showed higher ratios of personnel to population in non-metropolitan regions than in metropolitan regions. Compared to the ratio for metropolitan areas, the personnel to population ratio for emergency medical assistants is appreciably higher for non-metropolitan regions of the province. In 1991, the other health personnel groups continued to demonstrate significantly higher ratios for metropolitan regions.

Shifts in personnel to population ratios may reflect varying population growth rates experienced by different regions of the province as much as they reflect policies or programs that have affected the growth or decline in the number of health care personnel. Changes in the number of personnel and in the total population should both be considered in any evaluation of these ratios.

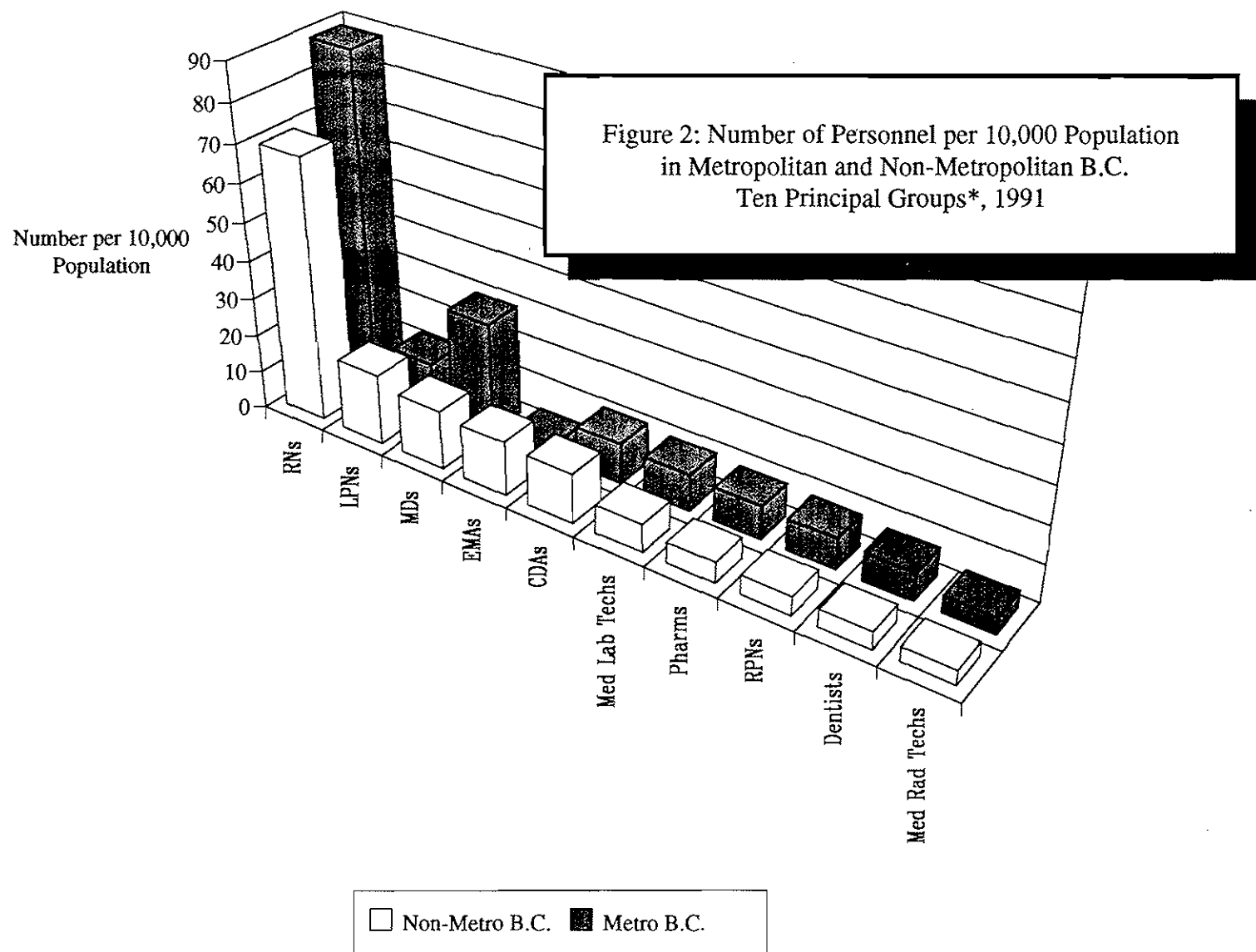
#### a) Rates of Change

Table 5 summarizes the average annual rates of change in numbers of personnel and personnel to population ratios for metropolitan and non-metropolitan regions in British Columbia between 1989 and 1991. Overall, most groups saw increases in the rate of change in the number of personnel and the rate of change in the ratio of personnel to population. Massage practitioners and occupational therapists experienced the largest rates of growth in numbers of personnel in both metropolitan and non-metropolitan areas. Following these, in metropolitan regions, were podiatrists, physiotherapists, health record personnel, registered psychiatric nurses, medical radiation technologists, and chiropractors, in that order. In non-metropolitan areas, positive rates of growth in numbers were also seen for medical radiation technologists, health record personnel, registered psychiatric nurses, audiologists and speech/language pathologists, chiropractors, and public health inspectors, followed by physiotherapists and podiatrists, who experienced the same rate of change in numbers of personnel over the period. Only denturists had negative rates of change in number for both metropolitan and non-metropolitan regions. Food service supervisors experienced an overall negative rate of change in personnel based solely on occurrences in metropolitan regions of the province.

Again, most health personnel groups showed positive rates of change in the number of personnel relative to change in population across the whole province. The largest such rates were seen for massage practitioners, occupational therapists, podiatrists, and health record personnel. Across the province as a whole, negative rates of change occurred only among denturists. Although food service supervisors experienced a negative rate of change for the province as a whole and for metropolitan areas of the province, the rate of change for their personnel to population ratio was positive in non-metropolitan areas. In addition, audiologists and speech/language pathologists, dentists, licensed practical nurses, and psychologists demonstrated negative rates of change for personnel relative to population in metropolitan areas and positive rates in non-metropolitan areas, with positive rates of change in their personnel to population ratios for the province as a whole.







\*The ten personnel groups with the largest non-metropolitan personnel to population ratios were selected for display.

Table 5

**Average Annual Rates of Change  
in Numbers of Personnel and Personnel to Population Ratios, 1989 to 1991<sup>1</sup>**

Health Personnel Group	Number <sup>2</sup>		Ratio <sup>3</sup>		Total
	Non-Metro	Metro	Non-Metro	Metro	
Audiologists & Speech/Language Pathologists	8.82	0.92	7.05	-1.57	1.23
Certified Dental Assistants	5.17	3.86	3.46	1.30	2.28
Chiropractors	8.70	6.58	6.43	3.21	4.51
Dental Hygienists	7.98	3.04	6.22	0.50	2.45
Dental Technicians	3.07	2.66	1.45	0.21	0.65
Dentists	2.80	2.07	1.12	-0.44	0.14
Denturists	-2.40	-3.42	-4.06	-5.89	-5.14
Food Service Supervisors	3.07	-1.29	1.33	-3.82	-1.92
Health Record Personnel	11.03	9.44	8.99	6.41	7.46
Licensed Practical Nurses	4.03	1.41	2.12	-1.40	0.34
Massage Practitioners	28.96	29.18	26.59	25.60	26.04
Medical Laboratory Technologists	5.06	3.41	3.21	0.66	1.63
Medical Radiation Technologists	11.97	6.74	9.73	3.52	5.89
Naturopathic Physicians	8.11	4.26	6.21	1.49	2.96
Occupational Therapists	14.47	14.94	12.37	11.75	11.68
Optometrists	2.50	3.45	0.77	0.80	0.74
Pharmacists	2.72	2.94	0.84	0.09	0.43
Physicians	4.23	2.50	2.59	0.06	0.89
Physiotherapists	8.51	10.62	6.52	7.55	7.31
Podiatrists	8.51	11.08	6.52	8.34	9.16
Psychologists	3.66	2.24	1.76	-0.59	0.08
Public Health Inspectors	8.60	3.73	6.21	0.29	2.83
Registered Nurses	5.75	3.26	3.80	0.40	1.70
Registered Psychiatric Nurses	10.54	7.61	8.51	4.63	5.93

<sup>1</sup> Groups which do not appear in this table were excluded because 1989 data were unavailable or were not comparable with 1991 figures or because the base for rate of change was less than 10 personnel. Periods over which the annual rates of change were calculated ranged from twenty to twenty-eight months.

<sup>2</sup>Rate of change (in percent) in the number of personnel.

$[(\text{Personnel } 1991 / \text{Personnel } 1989)^{12/n} - 1] \times 100$ , where  $n$  = number of months separating the two sets of data. Data specifications and sources are provided in Table 2.

<sup>3</sup> Rate of change (in percent) in the number of personnel relative to change in population.

$[(\text{Personnel } 1991 / \text{Personnel } 1989) \times (\text{Population } 1989 / \text{Population } 1991)^{12/n} - 1] \times 100$ , where  $n$  = number of months separating the two sets of data.

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## b) Inter-Regional Distribution

Tables 6 through 10 illustrate, in different ways, the distribution of health human resources groups throughout the province in 1991. While the use of personnel to population ratios for planning purposes is difficult because these ratios do not necessarily reflect underlying population health needs, they can be used to identify areas of health human resources activity which require investigation. As noted earlier, data presented in ROLLCALL should be used with caution. For instance, a district which contains a specialized facility that operates within a large catchment area and which is the principal employer for a particular group may show a high personnel to population ratio. The ratio for that district would not necessarily reflect a surplus of workers, just as lower ratios in the districts surrounding that catchment area need not imply shortages. Indeed, for some groups, increasing numbers may be expressive of economies of scale. In these instances, a higher population district might show a lower ratio, but as a minimum number of personnel are required in lower population districts, those personnel may not be fully utilized, so that an increase in the population would not automatically necessitate the addition of personnel from that particular health care group.

### Metropolitan vs. Non-Metropolitan Personnel to Population Ratios

Table 6 compares the personnel to population ratios in metropolitan regions to the personnel to population ratios of non-metropolitan regions for each health personnel group. A value of 1.0 for the metropolitan to non-metropolitan ratio would indicate that, for a specific group, the personnel to population ratio in the two metropolitan regions was equal to the ratio for all non-metropolitan regions combined. Only groups with at least 100 personnel in the province in 1991 are included. Groups for which comparable data were unavailable are indicated with an asterisk. Emergency medical assistants showed the greatest disparity in their distribution between metropolitan and non-metropolitan areas, with a personnel to population ratio in non-metropolitan regions almost four times that of metropolitan areas. Clinical engineers and biomedical engineering technologists continued to show a large imbalance in their distribution, but with concentrations opposite to those of emergency medical assistants. Their metropolitan personnel to population ratio was 3.58 times greater than that for non-metropolitan regions. Their services, however, are thought to be supplied to a number of RHDs from centralized locations. Only physiotherapists showed an increase in the ratio. This increase is the result of higher rates of growth in the number of physiotherapists in metropolitan than in non-metropolitan areas and represents a reversal in the trend for the ratio that dates back to 1985. Twenty groups showed some decrease in the value of their ratios, among them psychologists, occupational therapists, physicians, audiologists and speech/language pathologists, pharmacists, certified dental assistants, dentists, dental hygienists, dental technicians, denturists, massage practitioners, medical laboratory technologists, medical radiation technologists, registered nurses, registered psychiatric nurses, food service supervisors, health record personnel, chiropractors, and licensed practical nurses. The ratios for public health inspectors (0.94), optometrists (0.83), certified dental assistants (0.82), licensed practical nurses (0.67) and emergency medical assistants (0.26) are indicative of personnel to population ratios that are larger in non-metropolitan than in metropolitan regions. Optometrists were the only group for which the ratio did not change between 1989 and 1991. The most notable changes in the order in which groups were ranked, however, occurred among those seen in the middle range of the table.

Table 6

**Health Personnel Groups Ranked by  
Metropolitan to Non-Metropolitan Ratio<sup>1</sup>, 1991 and 1989**

Health Personnel Group	Ratio	
	1991	1989
Clinical Engineers & Biomedical Eng. Techs	3.58	*
Psychologists	3.12	3.29
Dental Technicians	2.88	2.97
Occupational Therapists	2.60	2.62
Registered Dietitians & Nutritionists	2.39	*
Physicians	1.90	2.01
Social Workers in Health Care	1.72	*
Registered Psychiatric Nurses	1.65	1.78
Dentists	1.64	1.70
Pharmacists	1.63	1.65
Physiotherapists	1.54	1.51
Cardiology Technologists	1.53	*
Audiologists & Speech/Language Pathologists	1.46	1.76
Dental Hygienists	1.43	1.62
Massage Practitioners	1.39	1.42
Respiratory Therapists	1.39	*
Medical Laboratory Technologists	1.32	1.39
Health Services Executives	1.31	*
Registered Nurses	1.28	1.37
Food Service Supervisors	1.24	1.43
Diagnostic Medical Sonographers	1.22	*
Medical Radiation Technologists	1.19	1.32
Denturists	1.17	1.22
Health Record Personnel	1.14	1.21
Chiropractors	1.13	1.18
Public Health Inspectors	0.94	1.03
Optometrists	0.83	0.83
Certified Dental Assistants	0.82	0.86
Licensed Practical Nurses	0.67	0.72
Emergency Medical Assistants	0.26	*

<sup>1</sup>(Personnel/Population) in metropolitan regions

(Personnel/Population) in non-metropolitan regions

<sup>2</sup>Data specifications and sources are provided in Table 2.

\*Indicates that data were unavailable for 1989 or that comparison with 1989 figures would be of limited value due to varying methods of data collection.

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Table 7

**Coefficient of Variation<sup>1</sup> for Health Personnel Groups<sup>2</sup>  
Across Non-Metropolitan Districts - 1989 and 1991**

Health Personnel Group	1991 Coefficient	1989 Coefficient <sup>3</sup>
Diagnostic Medical Sonographers	134.2	*
Respiratory Therapists	131.0	*
Registered Psychiatric Nurses	129.7	144.1
Social Workers in Health Care	121.2	*
Occupational Therapists	100.7	102.2
Dental Technicians	97.1	99.3
Psychologists	88.8	95.1
Massage Practitioners	83.2	88.1
Food Service Supervisors	79.9	83.4
Cardiology Technologists	74.4	*
Registered Dietitians & Nutritionists	67.7	*
Audiologists & Speech/Language Pathologists	65.7	71.7
Denturists	64.6	65.7
Emergency Medical Assistants	63.6	*
Optometrists	63.1	58.4
Dental Hygienists	57.3	70.7
Health Record Personnel	52.5	52.1
Public Health Inspectors	52.0	54.3
Health Services Executives	49.3	*
Physiotherapists	49.2	51.5
Chiropractors	48.9	47.8
Dentists	43.9	40.6
Licensed Practical Nurses	42.4	43.7
Physicians	33.4	32.9
Pharmacists	33.0	35.3
Medical Laboratory Technologists	30.5	33.3
Medical Radiation Technologists	30.3	30.5
Certified Dental Assistants	28.4	39.9
Registered Nurses	26.5	26.0

<sup>1</sup>Coefficient of Variation = (standard deviation/mean) x 100. Calculations are based on personnel per 10,000 population in each non-metropolitan Regional Hospital District.

<sup>2</sup>Data specifications and sources are provided in Table 2.

<sup>3</sup>Coefficients differ from 1989 coefficients appearing in ROLLCALL 89 because rates were calculated from more recent population estimates. See Appendix A.

\*Indicates that data were unavailable for 1989 or that comparison with 1989 figures would be of limited value due to varying methods of data collection.

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## Age and Sex

Table 8 reports the gender composition (the percentage among each group that is female) of selected health personnel groups in metropolitan and non-metropolitan areas of British Columbia. Comparative figures are provided for each of the standard age categories developed and used by statistics Canada. Base figures for percentage calculations must be considered when interpreting these figures, as calculations from small base numbers will be less reliable than those calculated for larger groups.

For almost all the groups for which age and sex data were available, there was a higher percentage of women in metropolitan than in non-metropolitan areas of the province. There was a higher proportion of female personnel in non-metropolitan areas only among licensed practical nurses, occupational therapists, and registered nurses, although for the latter group the composition was almost the same in metropolitan and non-metropolitan regions. The distribution of males and females was also similar in metropolitan and non-metropolitan areas for certified dental assistants and registered dietitians and nutritionists. The greatest differences in gender distribution for metropolitan areas as compared to non-metropolitan areas were seen among the social workers, pharmacists, physicians, massage practitioners, and psychologists, for which the percentage of females was as much as 16.6% greater in metropolitan areas.

While the concentration of female personnel was higher in non-metropolitan areas than in metropolitan areas for physiotherapists who were under 35 years of age, this trend was reversed for physiotherapists who were 35 years or older. Concentrations of female physiotherapists appeared to increase in both metropolitan and non-metropolitan areas until the category for 45-54 years of age, after which the percentage of male personnel in this group steadily grew. For registered psychiatric nurses, the concentration of female personnel was higher in metropolitan regions for individuals under 45 years of age. After that point, the concentration of female personnel was higher in non-metropolitan regions. Among physicians, the gap between the proportions of female personnel seen in metropolitan and non-metropolitan regions lessened across the age ranges. This pattern did not occur with the dentists, the only other male-dominated group showing any distribution of female personnel across all age groups.

The greatest differences in gender distribution between metropolitan and non-metropolitan areas occurred with diagnostic medical sonographers and pharmacists in the age category for 45 - 54 years and psychologists and social workers in the age category for 55 - 64 years. Once again, however, the base figures for calculations must be taken into consideration. In this case, for instance, the base for the diagnostic medical sonographer calculation was only 11, while the others were based on personnel counts of between 112 and 336.

Table 8

Gender Composition of Selected Health Personnel Groups (% Female) by Age<sup>1</sup>

for Metropolitan and Non-Metropolitan Areas

1991

Health Personnel Group <sup>2</sup>	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		65+		Total	
	Non-		Non-		Non-		Non-		Non-		Non-		Non-	
	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro	Metro
Certified Dental Assistants	99.7	99.2	99.7	99.6	100.0	100.0	100.0	100.0	*	100.0	*	100.0	99.7	99.6
Clinical Engineers & Biomedical Eng. Techs	10.0	50.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*	*	7.6	3.0
Dental Hygienists	100.0	97.1	98.3	97.7	98.8	94.8	94.9	81.8	100.0	100.0	*	*	98.3	95.0
Dentists	50.0	0.0	28.5	18.7	15.6	10.0	6.4	1.3	4.7	0.0	1.5	0.0	14.5	8.2
Diagnostic Medical Sonographers	100.0	*	90.0	73.3	82.9	83.3	75.0	100.0	100.0	100.0	*	100.0	85.7	83.3
Licensed Practical Nurses	94.9	95.5	88.9	95.7	87.7	96.9	88.6	95.9	89.3	96.4	92.6	96.6	88.7	96.3
Massage Practitioners	71.4	57.1	81.9	71.4	69.6	68.4	64.3	72.2	42.9	44.4	33.3	25.0	72.5	67.4
Occupational Therapists	100.0	100.0	93.3	100.0	93.5	96.2	98.8	93.3	96.2	100.0	100.0	*	94.8	97.7
Pharmacists	67.6	48.2	61.6	53.6	47.6	47.6	47.4	23.2	18.7	14.3	15.5	6.7	49.7	39.0
Physicians	0.0	*	43.0	29.6	29.3	17.2	16.5	9.9	11.1	5.8	8.0	4.8	23.4	14.8
Physiotherapists	80.8	100.0	82.8	85.1	88.6	85.0	90.4	86.1	84.8	78.3	78.6	75.0	86.6	85.1
Podiatrists	*	*	16.7	0.0	5.9	0.0	0.0	*	0.0	*	0.0	0.0	6.0	0.0
Psychologists	*	*	64.3	*	54.4	39.1	42.3	29.0	45.5	20.8	36.0	20.0	47.2	30.6
Registered Dietitians and Nutritionists	*	100.0	99.3	98.1	99.3	100.0	100.0	100.0	100.0	100.0	100.0	*	99.5	99.3
Registered Nurses	97.3	98.6	96.7	96.8	96.3	97.8	97.4	98.4	98.8	98.6	99.1	100.0	97.0	97.8
Registered Psychiatric Nurses	88.7	88.9	86.0	89.1	78.9	81.1	66.5	61.3	69.8	64.0	100.0	83.3	76.6	74.0
Social Workers in Health Care	100.0	100.0	82.8	63.6	69.6	61.4	70.1	46.8	67.6	61.5	75.0	0.0	72.3	57.6

<sup>1</sup>Only groups that provided age and sex information are included in this table. For base figure of percentage calculations, see metropolitan and non-metropolitan subtotals in the tables reporting age and sex information on each personnel group. Individual group members for whom age and/or sex information was incomplete have been excluded from these calculations.

<sup>2</sup>Data specifications and sources are provided in Table 2.

\*Indicates no group members in the cell.

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## Personnel and Provincial Population Distribution

Tables 9 and 10 illustrate the percent distribution of selected health care groups in relation to the percent distribution of the population for 1989 and 1991 in each of the province's regional hospital districts. These percentages are also aggregated at the metropolitan and non-metropolitan levels. The percentages can be considered, with a reasonable degree of certainty, to represent persons in each of these groups who are practising and known to be employed in their fields. However, according to surveys undertaken by the College of Pharmacists of British Columbia, the pharmacist group is comprised of a number of individuals who are registered, but are not in practise in the province.

The population estimates and personnel data presented in the tables suggest that 1991 personnel distributions for a number of groups approximated provincial population distributions slightly more closely than in 1989. While the revised estimates indicate that the proportion of the province's population in non-metropolitan areas decreased somewhat, five of the seven health care groups reported in the table show that the proportions of their personnel increased in non-metropolitan areas to more closely approximate provincial proportions. In 1989, for instance, 43.44 percent of British Columbia's population was in non-metropolitan areas, while only 27.65 percent of physicians and 35.96 percent of registered nurses were reported in these RHDs. In 1991, however, the non-metropolitan population fell slightly to 42.97 percent of the total population, while the proportion of physicians increased slightly to 28.44 percent and the percentage of registered nurses grew to 37.06 in these regions. Of the seven groups reported, only licensed practical nurses and physiotherapists became more unevenly distributed in relation to the province's population.

According to the estimates, Greater Vancouver accounted for 47.75 percent of the provincial population in 1991, and for 61.95 percent of the province's registered psychiatric nurses, 60.47 percent of its physicians, 59.39 percent of its pharmacists, 54.88 percent of its physiotherapists and 50.64 percent of its registered nurses. The distributions for medical laboratory technologists, physicians, registered nurses, and registered psychiatric nurses shifted in the period between 1989 and 1991 to more closely reflect the percentage of the provincial population resident in Greater Vancouver RHD. During this same period, however, the gap between the population and health care personnel distributions increased for licensed practical nurses, pharmacists, and physiotherapists in Greater Vancouver RHD. The Greater Vancouver RHD is also unique in that for each of the groups highlighted in Table 10, except licensed practical nurses, the percentages of personnel were greater than the percentage of the population living there in 1991. Licensed practical nurses, however, were the only group that showed a proportion of personnel greater than of the population in a majority of the province's RHDs and in non-metropolitan regions overall.



Table 9

**Percent Distribution of Selected Health Personnel and  
B.C. Population by Regional Hospital District, 1989**

<b>Regional Hospital District</b>	<b>B.C. Pop'n<sup>1</sup></b>	<b>LPNs</b>	<b>Med.Lab.Techs</b>	<b>Pharms</b>	<b>Physicians</b>	<b>Physios</b>	<b>RNs</b>	<b>RPNs</b>
<b>Non-Metropolitan Subtotal</b>	<b>43.44</b>	<b>51.75</b>	<b>35.61</b>	<b>31.73</b>	<b>27.65</b>	<b>33.70</b>	<b>35.96</b>	<b>30.15</b>
1 Alberni-Clayoquot	0.98	1.22	0.61	0.66	0.56	0.59	0.69	0.27
2 Bulkley-Nechako	1.21	1.13	0.92	0.57	0.62	0.42	0.70	0.16
4 Cariboo	1.91	1.81	1.03	1.05	0.96	1.01	1.14	0.85
5 Central Coast	0.10	0.04	0.08	0.04	0.07	0.00	0.08	0.05
6 Central Fraser Valley	2.51	1.68	1.68	1.84	1.64	1.60	2.03	2.39
7 Central Kootenay	1.59	3.01	1.11	1.31	0.96	1.26	1.51	0.11
8 Central Okanagan	3.20	4.36	2.75	2.76	2.45	3.37	3.27	2.12
9 Columbia-Shuswap	1.30	1.22	0.84	0.88	0.65	0.93	0.81	0.48
10 Comox-Strathcona	2.50	2.86	2.02	1.75	1.61	2.11	1.91	0.53
11 Cowichan Valley	1.81	3.27	1.26	1.44	1.18	1.68	1.50	0.64
12 Dewdney-Alouette	2.70	2.81	2.48	0.96	1.28	1.68	2.20	12.10
13 East Kootenay	1.59	2.12	1.49	1.14	1.09	1.26	1.34	0.32
14 Fraser-Cheam	2.06	1.75	1.37	1.53	1.17	1.18	1.42	0.90
15 Fraser-Fort George	2.82	2.12	2.18	1.62	1.78	1.43	2.55	0.80
17 Kitimat-Stikine	1.28	1.31	1.11	1.05	0.70	0.67	0.85	1.06
18 Kootenay Boundary	0.98	2.07	1.56	0.70	0.86	0.84	1.19	0.42
19 Mount Waddington	0.46	0.22	0.31	0.13	0.18	0.08	0.29	0.05
20 Nanaimo	2.89	4.01	2.71	2.89	2.26	3.12	2.24	0.58
21 North Okanagan	1.84	2.38	1.68	1.53	1.25	1.85	1.78	2.02
22 Okanagan-Similkameen	2.03	3.58	1.79	1.97	1.56	2.19	1.90	1.06
23 Peace River	1.62	1.83	1.15	0.88	0.73	1.10	0.98	0.64
24 Powell River	0.60	0.92	0.42	0.39	0.39	0.59	0.52	0.16
25 Skeena-Queen Charlotte	0.75	0.46	0.38	0.44	0.47	0.42	0.61	0.05
26 Squamish-Lillooet	0.70	0.44	0.50	0.66	0.35	1.01	0.43	0.21
27 Stikine	0.05	0.00	0.00	0.00	0.01	0.00	0.05	0.00
28 Sunshine Coast	0.59	0.46	0.42	0.48	0.37	0.67	0.47	0.05
29 Thompson-Nicola	3.21	4.54	3.66	2.98	2.42	2.61	3.38	2.07
30 Fort Nelson/Liard	0.15	0.13	0.11	0.09	0.06	0.00	0.10	0.05
<b>Metropolitan Subtotal</b>	<b>56.56</b>	<b>48.25</b>	<b>64.39</b>	<b>68.27</b>	<b>72.35</b>	<b>66.30</b>	<b>64.04</b>	<b>69.85</b>
3 Capital	9.27	11.56	9.89	9.19	11.07	12.22	12.22	7.38
16 Greater Vancouver	47.29	36.69	54.50	59.08	61.29	54.09	51.82	62.47
<b>Total N</b>	<b>3,053,300</b>	<b>4,584</b>	<b>2,620</b>	<b>2,285</b>	<b>7,093</b>	<b>1,187</b>	<b>23,763</b>	<b>1,884</b>

<sup>1</sup>Population estimates supplied by Population Sector, Planning and Statistics Division, Ministry of Finance and Corporate Relations are from the P.E.O.P.L.E. Projection Model - Projection #16.

Table 10

**Percent Distribution of Selected Health Personnel and  
B.C. Population by Regional Hospital District, 1991**

Regional Hospital District	B.C. Pop'n <sup>1</sup>	LPNs	Med.Lab.Techs	Pharms	Physicians	Physios	RNs	RPNs
<b>Non-Metropolitan Subtotal</b>	<b>42.97</b>	<b>53.02</b>	<b>36.37</b>	<b>31.64</b>	<b>28.44</b>	<b>32.85</b>	<b>37.06</b>	<b>31.29</b>
1 Alberni-Clayoquot	0.95	1.03	0.53	0.62	0.54	0.63	0.68	0.18
2 Bulkley-Nechako	1.18	1.24	0.95	0.58	0.59	0.35	0.72	0.23
4 Cariboo	1.85	1.98	1.06	1.08	1.00	0.84	1.17	0.68
5 Central Coast	0.10	0.04	0.07	0.04	0.09	0.07	0.11	0.00
6 Central Fraser Valley	2.66	2.15	1.69	1.86	1.66	1.74	2.26	2.89
7 Central Kootenay	1.57	3.08	1.37	1.12	1.00	1.46	1.52	0.41
8 Central Okanagan	3.26	4.52	3.10	2.94	2.67	3.42	3.54	1.76
9 Columbia-Shuswap	1.25	1.32	0.84	0.87	0.65	0.91	0.81	0.54
10 Comox-Strathcona	2.52	3.16	2.22	1.70	1.62	2.09	2.00	0.63
11 Cowichan Valley	1.77	3.24	1.37	1.65	1.30	1.53	1.49	0.68
12 Dewdney-Alouette	2.84	2.79	2.36	0.95	1.38	1.67	2.41	11.77
13 East Kootenay	1.48	2.29	1.51	1.12	1.12	1.26	1.26	0.27
14 Fraser-Cheam	2.07	2.11	1.41	1.36	1.33	0.91	1.45	1.17
15 Fraser-Fort George	2.71	2.13	2.22	1.70	1.71	1.60	2.65	0.77
17 Kitimat-Stikine	1.26	1.47	1.09	1.03	0.68	0.63	0.86	0.81
18 Kootenay Boundary	0.94	2.17	1.37	0.83	0.96	0.98	1.14	0.59
19 Mount Waddington	0.44	0.17	0.32	0.25	0.14	0.00	0.25	0.05
20 Nanaimo	2.93	3.61	2.74	2.61	2.45	2.93	2.49	0.86
21 North Okanagan	1.78	2.54	1.62	1.53	1.29	1.74	1.84	2.21
22 Okanagan-Similkameen	1.98	3.70	1.76	1.86	1.58	2.30	1.92	1.04
23 Peace River	1.53	1.71	1.13	0.91	0.66	0.77	0.98	0.77
24 Powell River	0.57	1.05	0.46	0.41	0.38	0.56	0.52	0.32
25 Skeena-Queen Charlotte	0.72	0.45	0.49	0.41	0.45	0.35	0.63	0.09
26 Squamish-Lillooet	0.71	0.37	0.42	0.62	0.34	0.91	0.41	0.27
27 Stikine	0.05	0.02	0.00	0.00	0.01	0.00	0.04	0.00
28 Sunshine Coast	0.58	0.50	0.46	0.58	0.38	0.49	0.50	0.23
29 Thompson-Nicola	3.12	4.05	3.73	2.94	2.37	2.72	3.30	2.07
30 Fort Nelson/Liard	0.14	0.12	0.11	0.08	0.07	0.00	0.10	0.05
<b>Metropolitan Subtotal</b>	<b>57.03</b>	<b>46.98</b>	<b>63.63</b>	<b>68.36</b>	<b>71.56</b>	<b>67.15</b>	<b>62.94</b>	<b>68.71</b>
3 Capital	9.29	10.74	9.39	8.97	11.10	12.27	12.31	6.76
16 Greater Vancouver	47.75	36.25	54.24	59.39	60.47	54.88	50.64	61.95
<b>Total N</b>	<b>3,203,184</b>	<b>4,842</b>	<b>2,843</b>	<b>2,418</b>	<b>7,596</b>	<b>1,434</b>	<b>25,782</b>	<b>2,218</b>

<sup>1</sup>Population estimates supplied by Population Sector, Planning and Statistics Division, Ministry of Finance and Corporate Relations are from the P.E.O.P.L.E. Projection Model - Projection #16.

## INTRODUCTION TO THE CHAPTERS

The remainder of the report is partitioned into health personnel group-specific chapters. All statistics within each chapter pertain to the specified date of record. Contained in most chapters, along with the figures which have been summarized in the Overview, is a 3-dimensional map of Regional Hospital Districts which reflects the actual worker/population ratios. The background grid on each map includes shadows of the 3-dimensional bars for each of the regions in the foreground. The bars are labelled with the Regional Hospital District number and the axes reveal the worker/population ratios. These should permit the reader to gain a rapid visual impression of the human resources distribution across Regional Hospital Districts.

Following the thirty-five personnel chapters are a number of appendices which provide provincial data on population, hospital bed supply, and the number of retail pharmacies.



## **I. ADMINISTRATIVE SERVICES**



## HEALTH RECORD PERSONNEL

## HEALTH RECORD PERSONNEL

**Definition:** Health record personnel

include Health Record Administrators (HRA), Health Data Technologists (HDT) and Health Record Technicians (HRT), who work in a variety of health care facilities such as acute, specialized and long term hospitals, community health centres, industrial clinics, and provincial or federal health care agencies, as well as the health care research field. They contribute to the health information team by: planning information acquisition, maintenance and utilization systems, analyzing and technically evaluating health information, and compiling and applying administrative and health statistics.<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the Health Record Association of British Columbia (HRABC) is voluntary.

**Date of Record:** November 1989 and November 1991.

**Source of Data:** The Health Record Association of British Columbia (HRABC).

**Preparation and Updating:**

The tables, derived solely from the membership list provided by the HRABC, include Active and Inactive members who reported a British Columbia address at the date of record. Affiliate and Honourary members have been excluded from the tables since they do not represent personnel who currently qualify for employment in the field.

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<sup>1</sup>Adapted from information received from the Health Record Association of B.C.



**Definition of Terms:****1. HRABC Membership**

HRABC membership may be *Active*, *Inactive*, *Affiliate* or *Honourary*.<sup>2</sup>

(a) *Active*

The Executive Committee may admit to Active membership any person who makes application thereto and who establishes to the satisfaction of the Executive Committee that she has successfully completed a health record program that is recognized by the Canadian Health Record Association (CHRA).

(b) *Inactive*

The Executive Committee may grant Inactive membership to those persons who so request it, in writing, and who are no longer engaged in active work in the health care field in British Columbia.

(c) *Affiliate*

The Executive Committee may admit to Affiliate membership any person (excluding a person who qualifies for Active membership) who makes application thereto and who establishes to the satisfaction of the Executive Committee an interest in the objects of the Society and their advancement. To qualify for Affiliate membership, the person must be:

(i) engaged in the record department in a hospital or other allied field satisfactory to the Executive Committee; or

(ii) a student enrolled in a health record program that is recognized by the CHRA.

(d) *Honourary*

The Executive Committee may grant Honourary membership to HRABC members who have retired from active service.

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<sup>2</sup>There were 5 Honourary members in 1989 and in 1991.

**Health Record Personnel  
per 10,000 Population  
by Regional Hospital District  
November 1991  
N=361**

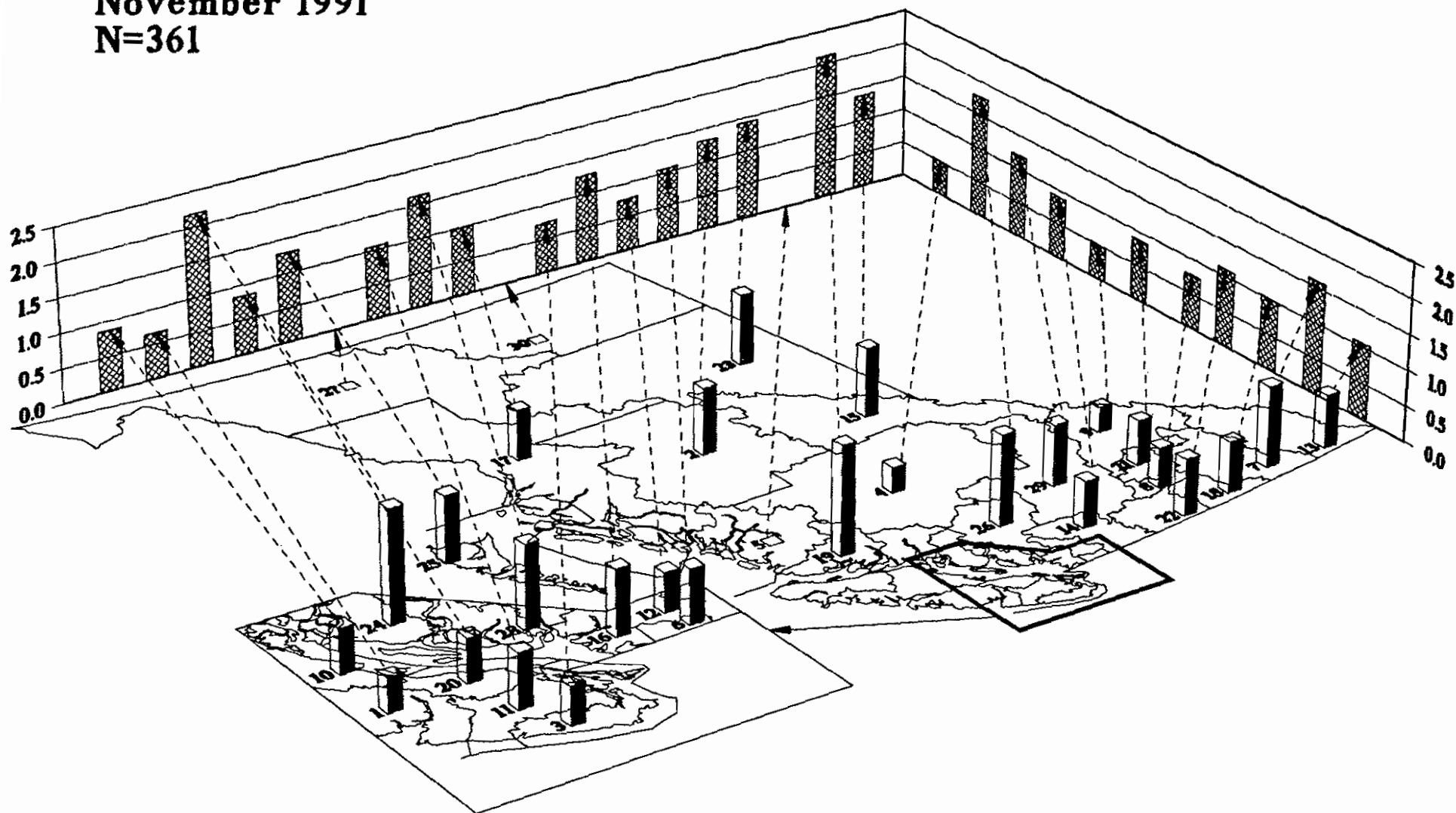


Table 1

Health Record Personnel (Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Registration Status

November 1989 and November 1991

Regional Hospital District	Active		Inactive		Total	
	1989	1991	1989	1991	1989 <sup>2</sup>	1991
<b>Non-Metropolitan - Subtotal</b>	<b>116</b>	<b>143</b>	<b>16</b>	<b>12</b>	<b>132</b>	<b>155</b>
1 Alberni-Clayoquot	1	2	0	0	1	2
2 Bulkley-Nechako	3	5	1	0	4	5
4 Cariboo	4	3	0	0	4	3
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	3	9	1	0	4	9
7 Central Kootenay	6	8	0	3	6	11
8 Central Okanagan	8	8	1	0	9	8
9 Columbia-Shuswap	3	2	1	1	4	3
10 Comox-Strathcona	8	7	2	1	10	8
11 Cowichan Valley	7	6	0	0	7	6
12 Dewdney-Alouette	7	7	2	2	9	9
13 East Kootenay	4	5	1	0	5	5
14 Fraser-Cheam	3	6	0	0	3	6
15 Fraser-Fort George	9	12	1	1	10	13
17 Kitimat-Stikine	4	4	0	0	4	4
18 Kootenay Boundary	2	3	0	0	2	3
19 Mount Waddington	2	3	0	0	2	3
20 Nanaimo	8	8	1	0	9	8
21 North Okanagan	4	5	0	0	4	5
22 Okanagan-Similkameen	7	7	1	0	8	7
23 Peace River	4	7	0	1	4	8
24 Powell River	1	4	0	0	1	4
25 Skeena-Queen Charlotte	4	3	0	0	4	3
26 Squamish-Lillooet	3	4	2	1	5	5
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	3	1	1	2	4
29 Thompson-Nicola	10	12	1	1	11	13
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>182</b>	<b>218</b>	<b>13</b>	<b>16</b>	<b>195</b>	<b>234</b>
3 Capital	16	22	6	4	22	26
16 Greater Vancouver	166	196	7	12	173	208
<b>TOTAL</b>	<b>298</b>	<b>361</b>	<b>29</b>	<b>28</b>	<b>327</b>	<b>389</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>The Affiliate category was excluded from 1989 totals in order to compare with 1991 data. 1989 totals therefore differ from the corresponding figures appearing in ROLLCALL 89.

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Health Human Resources Unit  
The University of British Columbia

Table 2

**Health Record Personnel (Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Registration Status**  
**December 1989 and December 1991**

Regional Hospital District	Active		Inactive		Total	
	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991
<b>Non-Metropolitan - Subtotal</b>	<b>0.87</b>	<b>1.04</b>	<b>0.12</b>	<b>0.09</b>	<b>1.00</b>	<b>1.13</b>
1 Alberni-Clayoquot	0.33	0.66	0.00	0.00	0.33	0.66
2 Bulkley-Nechako	0.81	1.32	0.27	0.00	1.08	1.32
4 Cariboo	0.69	0.50	0.00	0.00	0.69	0.50
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.39	1.06	0.13	0.00	0.52	1.06
7 Central Kootenay	1.24	1.59	0.00	0.60	1.24	2.19
8 Central Okanagan	0.82	0.77	0.10	0.00	0.92	0.77
9 Columbia-Shuswap	0.76	0.50	0.25	0.25	1.01	0.75
10 Comox-Strathcona	1.05	0.87	0.26	0.12	1.31	0.99
11 Cowichan Valley	1.27	1.06	0.00	0.00	1.27	1.06
12 Dewdney-Alouette	0.85	0.77	0.24	0.22	1.09	0.99
13 East Kootenay	0.82	1.05	0.21	0.00	1.03	1.05
14 Fraser-Cheam	0.48	0.90	0.00	0.00	0.48	0.90
15 Fraser-Fort George	1.04	1.38	0.12	0.12	1.16	1.50
17 Kitimat-Stikine	1.02	0.99	0.00	0.00	1.02	0.99
18 Kootenay Boundary	0.67	1.00	0.00	0.00	0.67	1.00
19 Mount Waddington	1.41	2.12	0.00	0.00	1.41	2.12
20 Nanaimo	0.91	0.85	0.11	0.00	1.02	0.85
21 North Okanagan	0.71	0.88	0.00	0.00	0.71	0.88
22 Okanagan-Similkameen	1.13	1.10	0.16	0.00	1.29	1.10
23 Peace River	0.81	1.43	0.00	0.20	0.81	1.63
24 Powell River	0.55	2.18	0.00	0.00	0.55	2.18
25 Skeena-Queen Charlotte	1.75	1.30	0.00	0.00	1.75	1.30
26 Squamish-Lillooet	1.40	1.77	0.93	0.44	2.33	2.21
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.56	1.62	0.56	0.54	1.12	2.17
29 Thompson-Nicola	1.02	1.20	0.10	0.10	1.12	1.30
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>1.05</b>	<b>1.19</b>	<b>0.08</b>	<b>0.09</b>	<b>1.13</b>	<b>1.28</b>
3 Capital	0.57	0.74	0.21	0.13	0.78	0.87
16 Greater Vancouver	1.15	1.28	0.05	0.08	1.20	1.36
<b>TOTAL</b>	<b>0.98</b>	<b>1.13</b>	<b>0.09</b>	<b>0.09</b>	<b>1.07</b>	<b>1.21</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword and Footnote 2, Table 1.

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Table 3

**Average Annual Rate of Change: Health Record Personnel (Members)<sup>1</sup>**  
**in British Columbia by Regional Hospital District by Registration Status**  
**December 1989 to December 1991**

Regional Hospital District	Active		Inactive		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>11.03</b>	<b>8.99</b>	<b>-13.40</b>	<b>-14.99</b>	<b>8.36</b>	<b>6.37</b>
1 Alberni-Clayoquot	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	*	*
4 Cariboo	*	*	*	*	*	*
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	*	*	*	*	*	*
7 Central Kootenay	*	*	*	*	*	*
8 Central Okanagan	*	*	*	*	*	*
9 Columbia-Shuswap	*	*	*	*	*	*
10 Comox-Strathcona	*	*	*	*	-10.56	-12.95
11 Cowichan Valley	*	*	*	*	*	*
12 Dewdney-Alouette	*	*	*	*	*	*
13 East Kootenay	*	*	*	*	*	*
14 Fraser-Cheam	*	*	*	*	*	*
15 Fraser-Fort George	*	*	*	*	14.02	13.57
17 Kitimat-Stikine	*	*	*	*	*	*
18 Kootenay Boundary	*	*	*	*	*	*
19 Mount Waddington	*	*	*	*	*	*
20 Nanaimo	*	*	*	*	*	*
21 North Okanagan	*	*	*	*	*	*
22 Okanagan-Similkameen	*	*	*	*	*	*
23 Peace River	*	*	*	*	*	*
24 Powell River	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*
29 Thompson-Nicola	9.54	8.46	*	*	8.71	7.63
30 Fort Nelson/Liard	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>9.44</b>	<b>6.41</b>	<b>10.94</b>	<b>7.87</b>	<b>9.54</b>	<b>6.51</b>
3 Capital	17.26	14.38	*	*	8.71	6.04
16 Greater Vancouver	8.66	5.58	*	*	9.65	6.55
<b>TOTAL</b>	<b>10.06</b>	<b>7.46</b>	<b>-1.74</b>	<b>-4.07</b>	<b>9.07</b>	<b>6.49</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Rate of change (in percent) in the number.<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates the base for the rate of change was less than 10.

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Health Human Resources Unit  
The University of British Columbia



## HEALTH SERVICES EXECUTIVES





## HEALTH SERVICES EXECUTIVES

**Definition:** A health services executive

- (a) has senior managerial responsibility in a health organization, including institution-wide planning, directing, coordinating, organizing, staffing, budgeting and reporting;
- (b) participates regularly in the formulation and implementation of organization-wide policy making.

Occupational categories most frequently used for this group include: President, (Associate/Assistant) Director/Administrator, Executive Director, Administrative/Executive Assistant.

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the CCHSE, the HAABC or the ACHE is voluntary.

**Date of Record:** December 1991.

**Source of Data:** The Canadian College of Health Service Executives (CCHSE), the Health Administrators' Association of British Columbia (HAABC), and the American College of Health Care Executives (ACHE). While members may belong to any of these associations, double counting was avoided by identifying and enumerating individuals.

**Preparation and Updating:**

The table, derived solely from the membership lists supplied by the CCHSE, the HAABC and the ACHE, includes members of these associations who reported a British Columbia address at the date of record. Comparison with 1989 figures is of limited value and has not been presented.

All membership categories defined on the following pages are working in the field and have been included in the table. Excluded from the table are student, retired, life and other members of these organizations who are not considered to be part of the work force.

**Definition of Terms:****1. Executive and Candidate Membership in CCHSE<sup>1</sup>****(a) Executive**

The *Executive Category* is open to individuals in all health services sectors who is employed in:

- (i) an executive level position with senior management responsibilities;
- (ii) a full-time faculty position in a program of health administration; or
- (iii) a non-institutional position possessing either senior management or the equivalent of project leader responsibilities.

Executive members may elect with one year's tenure to take the College's Certification Exam, and if successful are eligible to apply for Fellowship.

**(b) Candidate**

The *Candidate Category* is open to individuals in all health services sectors who:

- (i) hold a position with either departmental, consultant, or senior staff level responsibilities; or
- (ii) hold either a baccalaureate degree, an accountancy designation, or an approved certificate in health services administration.

Candidate members fulfilling tenure requirements may elect to take the College's Certification Exam, and if successful become eligible Certified Members of the College.

**2. Membership in the Health Administrators Association of British Columbia<sup>2</sup>****(a) Active**

An *Active* member must be a graduate of an approved course in health or business administration or a combination of an approved course and appropriate experience, and must hold either a position of senior administrative responsibility in a health care organization or a consultative position in health care administration.

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<sup>1</sup>From information provided by CCHSE. Totals for 1991 include 59 CCHSE Candidate members.

<sup>2</sup>Adapted from information provided by HAABC. Totals for 1991 include 23 HAABC Life members who may or may not be working in the field.

(b) *Associate*

An *Associate* member is a person who meets all the *Active* membership criteria except either the appropriate educational qualifications or a position of senior administrative responsibility, or is a person who has been an *Active* member of the Association and has resigned while in good standing, who is no longer engaged in the field of health administration in this province.

(c) *Provisional*

A *Provisional* member must be actively engaged in the field of health administration as well as working toward the educational qualifications necessary to become an *Active* member.

3. **Membership in ACHE<sup>3</sup>**

(a) *Nominee*

Applicants are admitted to the College as *Nominees* and remain in that category for a minimum of two years. To advance to *Membership* status, *Nominees* must, within five years, meet criteria which include:

- (i) participation and leadership in health care affairs;
- (ii) personal program of continuing professional education;
- (iii) successful completion of a Board of Governors Examination.

(b) *Membership*

*Membership* is approved provided the *Nominee* has an appropriate combination of post-secondary education and employment experience in an eligible health services administrative, management or education position.

(c) *Fellowship*

Following five years in *Membership*, an affiliate may advance to *Fellowship* after meeting criteria which include:

- (i) employment in an eligible health care management position;
- (ii) participation and leadership in health care and in the community;
- (iii) an approved level of continuing education;
- (iv) completion of a Fellowship project.

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<sup>3</sup>Adapted from information provided by ACHE.

**Health Services Executives  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=444**

42

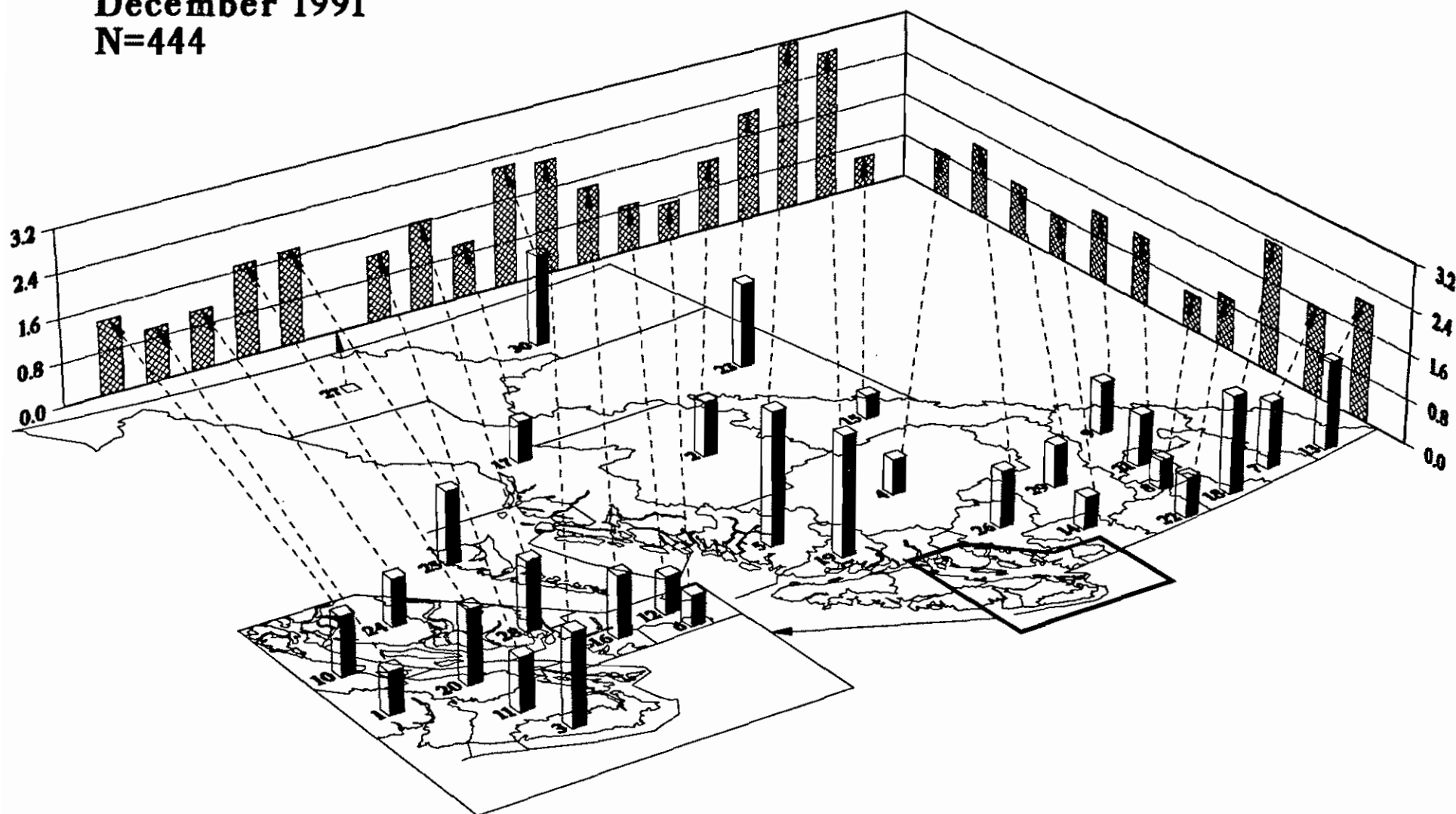


Table 1

Health Services Executives<sup>1</sup> in British Columbia  
by Regional Hospital District by Membership Status  
December 1991

Regional Hospital District	Number	Number per 10,000 Population
<b>Non-Metropolitan - Subtotal</b>	<b>163</b>	<b>1.18</b>
1 Alberni-Clayoquot	3	0.99
2 Bulkley-Nechako	5	1.32
4 Cariboo	5	0.84
5 Central Coast	1	3.14
6 Central Fraser Valley	6	0.71
7 Central Kootenay	8	1.59
8 Central Okanagan	7	0.67
9 Columbia-Shuswap	5	1.25
10 Comox-Strathcona	11	1.36
11 Cowichan Valley	7	1.23
12 Dewdney-Alouette	8	0.88
13 East Kootenay	10	2.11
14 Fraser-Cheam	5	0.75
15 Fraser-Fort George	5	0.58
17 Kitimat-Stikine	4	0.99
18 Kootenay Boundary	7	2.33
19 Mount Waddington	4	2.82
20 Nanaimo	16	1.70
21 North Okanagan	7	1.23
22 Okanagan-Similkameen	6	0.94
23 Peace River	10	2.04
24 Powell River	2	1.09
25 Skeena-Queen Charlotte	4	1.73
26 Squamish-Lillooet	3	1.33
27 Stikine	0	0.00
28 Sunshine Coast	3	1.62
29 Thompson-Nicola	10	1.00
30 Fort Nelson/Liard	1	2.22
<b>Metropolitan - Subtotal</b>	<b>281</b>	<b>1.54</b>
3 Capital	63	2.12
16 Greater Vancouver	218	1.43
<b>TOTAL</b>	<b>456<sup>2</sup></b>	<b>1.42</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Twelve Health Services Executives with unknown location are included in the total.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia



## **II. DENTAL SERVICES**





## **CERTIFIED DENTAL ASSISTANTS**

## CERTIFIED DENTAL ASSISTANTS

**Definition:** A certified dental assistant (dental auxiliary - level II)

may be delegated the following duties and procedures under the personal supervision of a duly licensed member of the College of Dental Surgeons of British Columbia:

- (a) those duties or procedures which a dental assistant (dental auxiliary - level I) may perform;<sup>1</sup>
- (b) polishing clinical crowns of teeth with rubber cup or brush and polishing pastes;
- (c) applying topical anticariogenic agents;
- (d) taking study model impressions;
- (e) applying fissure sealants;
- (f) evaluating dietary habits and providing nutritional counselling as it pertains to dentistry;
- (g) providing instruction in the use and maintenance of partial and complete dentures and other appliances;
- (h) removing sutures;
- (i) placing and removing matrices and wedges;
- (j) performing first aid procedures;
- (k) applying desensitizing agents;
- (l) removing periodontal dressings;
- (m) performing pulp vitality tests using electric pulp tester and thermal pulp tester;
- (n) taking simple face-bow transfer;
- (o) acid etching prepared cavities;
- (p) applying non-invasive identification discs.<sup>2</sup>

On successful completion of the specific orthodontic training module concerned, a certified dental assistant may also be delegated the following duties and procedures under the personal supervision of a licensed member:

- (a) instructing in the placement and care of removable orthodontic appliances;
- (b) tying-in arch wires that a dentist has fitted;
- (c) removing orthodontic arch wire;
- (d) removing excess cement or bonding material by means of hand instruments or ultrasonic hand instruments following banding/bonding and debanding/debonding procedures;
- (e) fitting orthodontic bands prior to assessment by a member;

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<sup>1</sup>*Regulations of The College of Dental Surgeons of British Columbia, Auxiliary Bodies*, revised June 1988, Article 10.16.

<sup>2</sup>*Ibid.*, Article 10.17.

See also *Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3157-114, p. 63, Ottawa: Employment and Immigration Canada.

- (f) taking impressions for the fabrication of orthodontic appliances;
- (g) fitting space maintainers prior to assessment by a member;
- (h) removing orthodontic bands and bonded attachments by means of hand instruments;
- (i) preparing teeth for direct bonding of attachments;
- (j) applying wax or other material to offending components or removing offending components;
- (k) placing and removing orthodontic separators; and
- (l) fitting headgear prior to assessment by a member.<sup>3</sup>

**Enabling Statute:** Dentists Act, Revised Statutes of British Columbia, 1979, Chapter 92, administered by the Ministry of Health.

**Governing Body:** The College of Dental Surgeons of British Columbia (CDSBC). In order to practise as a certified dental assistant in British Columbia, it is necessary to be registered by the CDSBC and to hold a valid licence.

**Date of Record:** September 1989 and December 1991.

**Source of Data:** The College of Dental Surgeons of British Columbia.

**Preparation and Updating:**

The tables, prepared from registration data maintained by the CDSBC, include certified dental assistants who were British Columbia residents at the date of record.

Age and sex information on Certified Dental Assistants, derived from CDSBC registration information, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

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<sup>3</sup>*Regulations*, op. cit., Article 10.19.

**Certified Dental Assistants  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=3843**

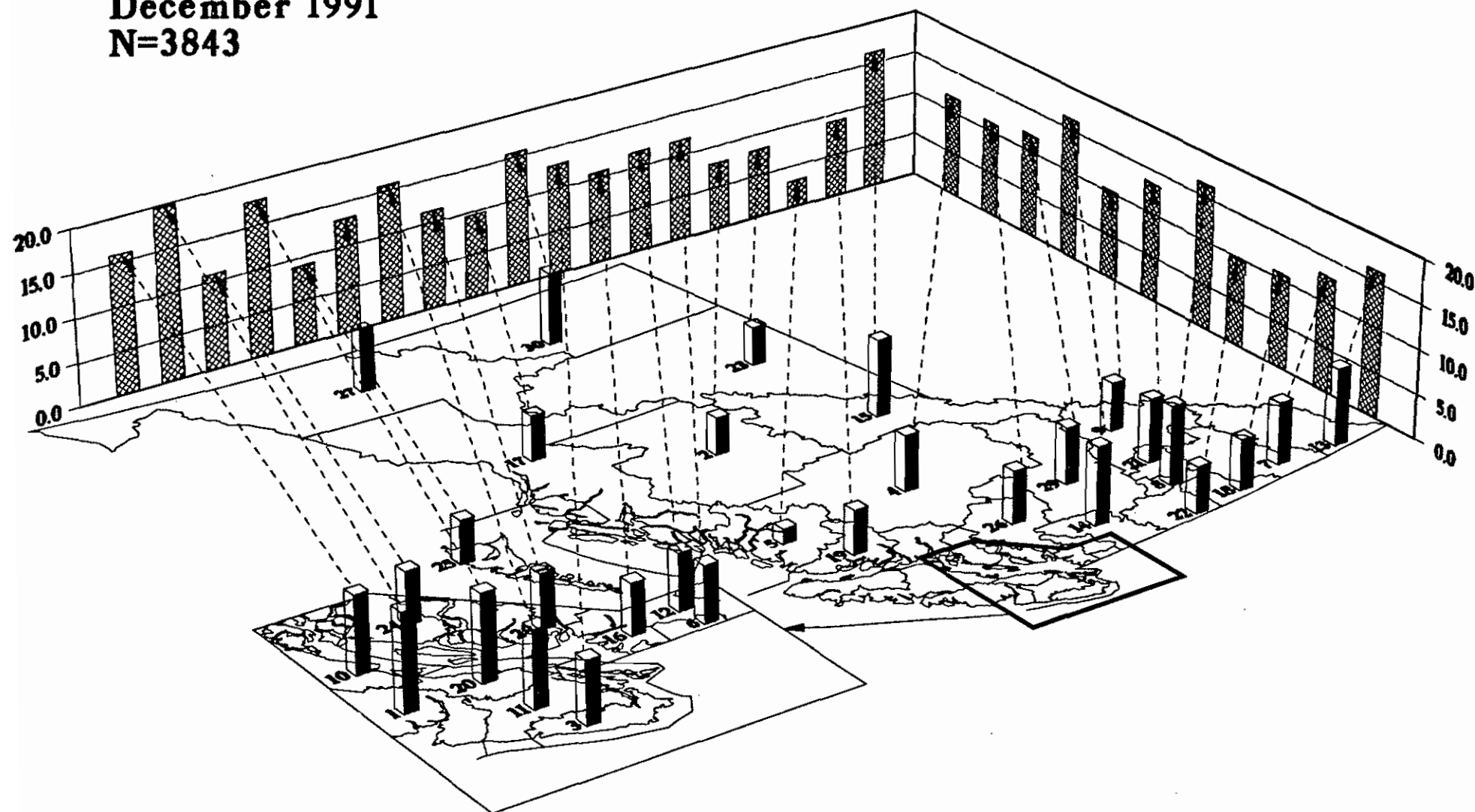


Table 1

**Certified Dental Assistants<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**September 1989 and December 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1989	1991 <sup>3</sup>	1989 <sup>4</sup>	1991	Number <sup>5</sup>	Ratio <sup>6</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>1,639</b>	<b>1,836</b>	<b>12.36</b>	<b>13.34</b>	<b>5.17</b>	<b>3.46</b>
1 Alberni-Clayoquot	59	60	19.70	19.79	0.75	0.20
2 Bulkley-Nechako	36	30	9.72	7.91	-7.78	-8.74
4 Cariboo	67	70	11.49	11.78	1.97	1.11
5 Central Coast	0	1	0.00	3.14	*	*
6 Central Fraser Valley	99	100	12.94	11.76	0.45	-4.15
7 Central Kootenay	62	65	12.78	12.95	2.12	0.60
8 Central Okanagan	146	172	14.93	16.47	7.56	4.45
9 Columbia-Shuswap	31	41	7.82	10.26	13.23	12.84
10 Comox-Strathcona	112	128	14.66	15.87	6.11	3.59
11 Cowichan Valley	78	89	14.13	15.67	6.04	4.71
12 Dewdney-Alouette	88	108	10.69	11.86	9.53	4.73
13 East Kootenay	70	77	14.39	16.24	4.33	5.53
14 Fraser-Cheam	92	108	14.62	16.28	7.39	4.90
15 Fraser-Fort George	141	142	16.35	16.33	0.31	-0.04
17 Kitimat-Stikine	35	39	8.93	9.63	4.93	3.40
18 Kootenay Boundary	24	32	8.05	10.67	13.64	13.35
19 Mount Waddington	14	13	9.86	9.18	-3.24	-3.15
20 Nanaimo	149	167	16.87	17.79	5.20	2.39
21 North Okanagan	71	77	12.64	13.49	3.67	2.95
22 Okanagan-Similkameen	53	62	8.56	9.76	7.22	6.00
23 Peace River	37	40	7.50	8.17	3.53	3.88
24 Powell River	17	20	9.35	10.88	7.49	7.00
25 Skeena-Queen Charlotte	18	21	7.86	9.07	7.09	6.59
26 Squamish-Lillooet	14	25	6.53	11.05	29.39	26.30
27 Stikine	0	2	0.00	13.12	*	*
28 Sunshine Coast	16	21	8.95	11.37	12.85	11.20
29 Thompson-Nicola	105	119	10.72	11.91	5.72	4.79
30 Fort Nelson/Liard	5	7	10.67	15.55	*	*
<b>Metropolitan - Subtotal</b>	<b>1,843</b>	<b>2,007</b>	<b>10.67</b>	<b>10.99</b>	<b>3.86</b>	<b>1.30</b>
3 Capital	348	380	12.30	12.77	3.99	1.71
16 Greater Vancouver	1,495	1,627	10.35	10.64	3.83	1.21
<b>TOTAL</b>	<b>3,482</b>	<b>3,843</b>	<b>11.40</b>	<b>12.00</b>	<b>4.48</b>	<b>2.28</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>A twenty-seven month rate of change has been adjusted to an annual figure.

<sup>3</sup>Excludes eleven Certified Dental Assistants with unknown address.

<sup>4</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

<sup>5</sup>Rate of change (in percent) in the number.

<sup>6</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Certified Dental Assistants<sup>1</sup> in British Columbia  
by Regional Hospital District by Age and Sex  
December 1991

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Subtotal		Unknown	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>2</b>	<b>258</b>	<b>2</b>	<b>560</b>	<b>0</b>	<b>156</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>4</b>	<b>992</b>	<b>840</b>	<b>1,836</b>
1 Alberni-Clayoquot	1	6	0	17	0	3	0	0	0	1	0	0	1	27	32	60
2 Bulkley-Nechako	0	3	0	5	0	3	0	0	0	0	0	0	0	11	19	30
4 Cariboo	0	11	0	29	0	3	0	0	0	0	0	0	0	43	27	70
5 Central Coast	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
6 Central Fraser Valley	1	21	0	27	0	7	0	0	0	0	0	0	1	55	44	100
7 Central Kootenay	0	13	0	20	0	1	0	0	0	0	0	0	0	34	31	65
8 Central Okanagan	0	27	0	61	0	27	0	1	0	0	0	0	0	116	56	172
9 Columbia-Shuswap	0	8	0	11	0	6	0	2	0	0	0	0	0	27	14	41
10 Comox-Strathcona	0	14	0	39	0	10	0	1	0	0	0	0	0	64	64	128
11 Cowichan Valley	0	11	0	20	0	7	0	1	0	0	0	0	0	39	50	89
12 Dewdney-Alouette	0	12	0	42	0	6	0	0	0	0	0	0	0	60	48	108
13 East Kootenay	0	23	0	28	0	3	0	0	0	0	0	0	0	56	21	77
14 Fraser-Chem	0	18	0	40	0	10	0	1	0	0	0	0	0	69	39	108
15 Fraser-Fort George	0	14	0	37	0	11	0	1	0	0	0	0	0	63	79	142
17 Kitimat-Stikine	0	4	1	9	0	6	0	0	0	0	0	0	1	19	19	39
18 Kootenay Boundary	0	3	0	10	0	6	0	0	0	0	0	0	0	19	13	32
19 Mount Waddington	0	0	0	4	0	1	0	0	0	0	0	0	0	5	8	13
20 Nanaimo	0	19	1	57	0	14	0	3	0	0	0	0	1	93	73	167
21 North Okanagan	0	8	0	21	0	7	0	1	0	0	0	0	0	37	40	77
22 Okanagan-Similkameen	0	12	0	12	0	3	0	0	0	0	0	0	0	27	35	62
23 Peace River	0	5	0	12	0	4	0	0	0	0	0	0	0	21	19	40
24 Powell River	0	2	0	4	0	1	0	0	0	0	0	0	0	7	13	20
25 Skeena-Queen Charlotte	0	1	0	6	0	2	0	1	0	0	0	0	0	10	11	21
26 Squamish-Lillooet	0	0	0	6	0	3	0	0	0	0	0	1	0	10	15	25
27 Stikine	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	2
28 Sunshine Coast	0	0	0	6	0	2	0	0	0	0	0	0	0	8	13	21
29 Thompson-Nicola	0	19	0	34	0	10	0	1	0	0	0	0	0	64	55	119
30 Fort Nelson/Liard	0	4	0	2	0	0	0	0	0	0	0	0	0	6	1	7
<b>Metropolitan - Subtotal</b>	<b>1</b>	<b>294</b>	<b>2</b>	<b>637</b>	<b>0</b>	<b>113</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>1,063</b>	<b>941</b>	<b>2,007</b>
3 Capital	1	61	0	128	0	21	0	3	0	0	0	0	1	213	166	380
16 Greater Vancouver	0	233	2	509	0	92	0	16	0	0	0	0	2	850	775	1,627
<b>TOTAL</b>	<b>3</b>	<b>552</b>	<b>4</b>	<b>1,197</b>	<b>0</b>	<b>269</b>	<b>0</b>	<b>35</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>2,055</b>	<b>1,781</b>	<b>3,843</b>

<sup>1</sup>Definitions are as in the attached text.

## DENTAL HYGIENISTS





## DENTAL HYGIENISTS

**Definition:** A dental hygienist (dental auxiliary - level III)

... in addition to those duties and procedures which a certified dental assistant (dental auxiliary -level II) may perform<sup>1</sup>, may be delegated the following duties and procedures under the direction of a duly licensed member of the College of Dental Surgeons of British Columbia:

- (a) examining the head and neck as it pertains to dentistry;
- (b) examining the intra-oral structures;
- (c) placing and removing temporary restorations;
- (d) applying periodontal dressings;
- (e) removing supra and subgingival calculus;
- (f) root planing;
- (g) recontouring existing restorations;
- (h) desensitizing hypersensitive teeth;
- (i) administering local anaesthetics but only after the completion of approved training to the satisfaction of the general examination committee, and only while a duly licensed member is present and immediately available in the office.<sup>2</sup>

**Enabling Statute:** Dentists Act, Revised Statutes of British Columbia, 1979, Chapter 92; Health Statutes Amendment Act, 1990, Chapter 51, Sections 4-5; administered by the Ministry of Health.

**Governing Body:** The College of Dental Surgeons of British Columbia (CDSBC). In order to practise as a dental hygienist in British Columbia, it is necessary to be registered by the CDSBC and to hold a valid licence or permit.

**Date of Record:** September 1989 and December 1991 (CDSBC data) and February 1992 (Health Human Resources Unit Survey).

**Source of Data:** The College of Dental Surgeons of British Columbia and Health Human Resources Unit (HHRU) Survey.

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<sup>1</sup>*Regulations of The College of Dental Surgeons of British Columbia, Auxiliary Bodies*, revised June 1988, Articles 10.16, 10.17 and 10.19.

<sup>2</sup>*Ibid.*, Article 10.20.

**Preparation and Updating:**

Table 1 was prepared from registration data maintained by the CDSBC. It includes dental hygienists who were British Columbia residents at the date of record.

**Definition of Terms:**

Data for the other tables have been derived from a mail survey of dental hygienists conducted by the HHRU.

**1. Age and Sex**

Age and sex information on dental hygienists, as derived from a survey by the HHRU, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

**2. Employment Status**

Employment information on dental hygienists, as derived from a survey by the HHRU, is provided in Table 3. The categories shown in the table are:

- (a) Employed in dental hygiene;
- (b) Employed in dental hygiene and in other field;
- (c) Employed in other field;
- (d) On leave;
- (e) No response.

**3. Principal Employer**

Information on type of principal employer, as derived from a survey by the HHRU, is reported in Table 4. The categories shown in the table are:

- (a) Solo Practice;
  - (i) General Dentist
  - (ii) Specialist
- (b) Group Practice;
  - (i) General Dentist
  - (ii) Specialist
  - (iii) General Dentist/Specialist
- (c) Community health agency;
- (d) Post-secondary Educational Institution;
- (e) Other;
- (f) No response.

**4. Principal Area of Responsibility**

Information on area of responsibility for dental hygienists' principal employment position, as derived from a survey by the HHRU, is reported in Table 4. The categories used in the table are:

- (a) Clinical service;
- (b) Community dental health;
- (c) Instruction in dental hygiene;
- (d) Instruction in dental assisting;
- (e) Administration;
- (f) Consulting services;
- (g) Other;
- (h) No response.

**Dental Hygienists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=914**

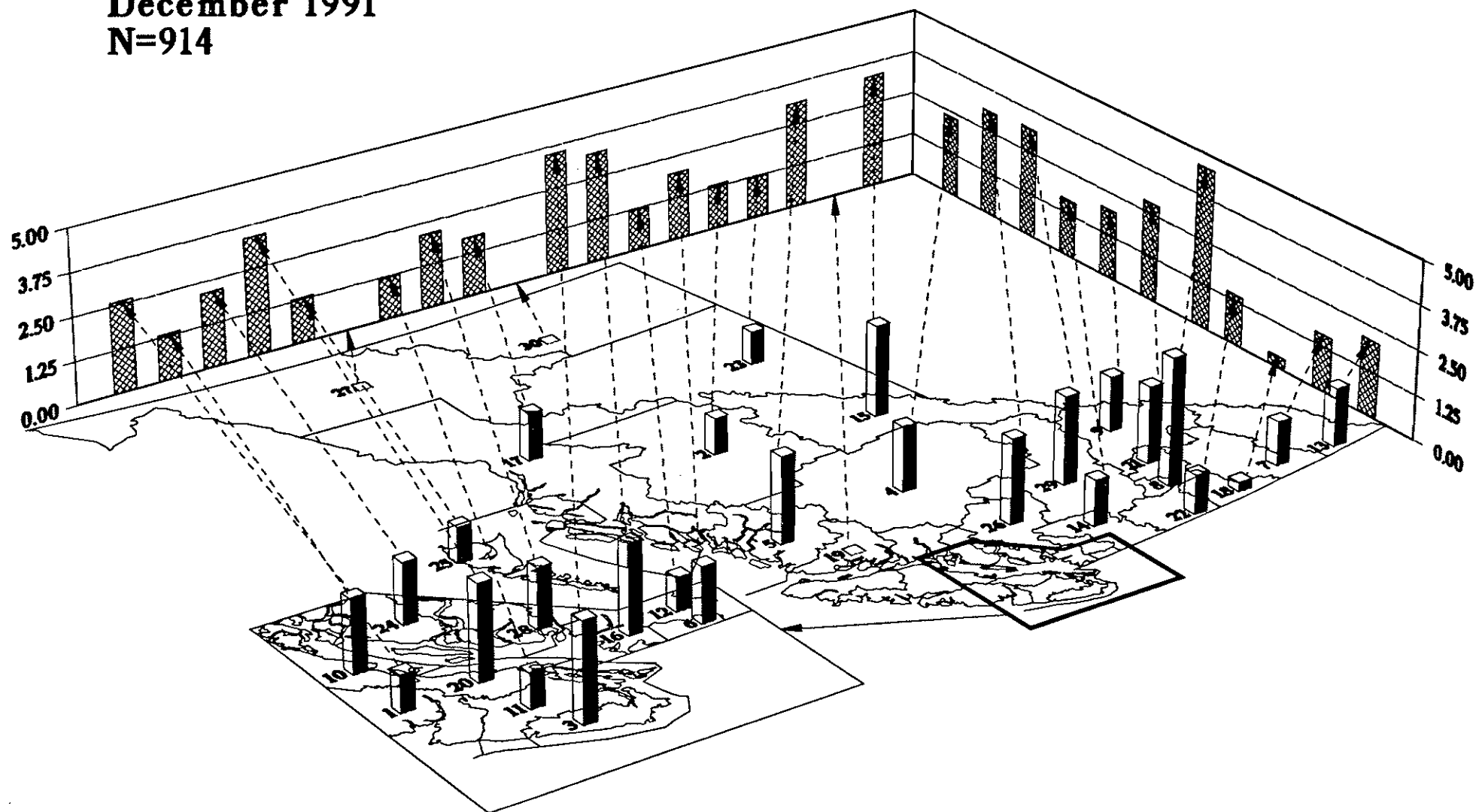


Table 1

Dental Hygienists<sup>1</sup> in British Columbia

by Regional Hospital District

September 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1989	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>265</b>	<b>315</b>	<b>2.00</b>	<b>2.29</b>	<b>7.98</b>	<b>6.22</b>
1 Alberni-Clayoquot	4	4	1.34	1.32	*	*
2 Bulkley-Nechako	5	5	1.35	1.32	*	*
4 Cariboo	8	14	1.37	2.36	*	*
5 Central Coast	0	1	0.00	3.14	*	*
6 Central Fraser Valley	17	17	2.22	2.00	0.00	-4.58
7 Central Kootenay	10	8	2.06	1.59	-9.44	-10.79
8 Central Okanagan	41	48	4.19	4.60	7.26	4.16
9 Columbia-Shuswap	7	8	1.77	2.00	*	*
10 Comox-Strathcona	18	21	2.36	2.60	7.09	4.54
11 Cowichan Valley	4	7	0.72	1.23	*	*
12 Dewdney-Alouette	9	11	1.09	1.21	*	*
13 East Kootenay	10	10	2.06	2.11	0.00	1.15
14 Fraser-Cheam	13	11	2.07	1.66	-7.16	-9.31
15 Fraser-Fort George	21	29	2.43	3.34	15.43	15.02
17 Kitimat-Stikine	3	7	0.77	1.73	*	*
18 Kootenay Boundary	0	1	0.00	0.33	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	26	32	2.94	3.41	9.67	6.74
21 North Okanagan	14	16	2.49	2.80	6.11	5.37
22 Okanagan-Similkameen	7	9	1.13	1.42	*	*
23 Peace River	4	6	0.81	1.23	*	*
24 Powell River	4	4	2.20	2.18	*	*
25 Skeena-Queen Charlotte	0	3	0.00	1.30	*	*
26 Squamish-Lillooet	7	7	3.27	3.09	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	3	4	1.68	2.17	*	*
29 Thompson-Nicola	30	32	3.06	3.20	2.91	2.00
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>560</b>	<b>599</b>	<b>3.24</b>	<b>3.28</b>	<b>3.04</b>	<b>0.50</b>
3 Capital	84	105	2.97	3.53	10.43	8.01
16 Greater Vancouver	476	494	3.30	3.23	1.66	-0.90
<b>TOTAL</b>	<b>825</b>	<b>914</b>	<b>2.70</b>	<b>2.85</b>	<b>4.66</b>	<b>2.45</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>A twenty-seven month rate of change has been adjusted to an annual figure.<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.<sup>4</sup>Rate of change (in percent) in the number.<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Dental Hygienists (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

February 1992

09

Regional Hospital District	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		Subtotal		Unkn <sup>2</sup>	Total
	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>34</b>	<b>2</b>	<b>86</b>	<b>5</b>	<b>91</b>	<b>4</b>	<b>18</b>	<b>0</b>	<b>1</b>	<b>12</b>	<b>230</b>	<b>17</b>	<b>259</b>
1 Alberni-Clayoquot	0	0	0	2	0	2	0	0	0	0	0	4	0	4
2 Bulkley-Nechako	0	1	0	1	0	1	0	0	0	0	0	3	1	4
4 Cariboo	0	3	0	5	0	4	0	0	0	0	0	12	1	13
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	1	0	5	0	3	1	2	0	0	1	11	2	14
7 Central Kootenay	0	0	0	0	0	6	0	2	0	0	0	8	0	8
8 Central Okanagan	0	4	0	15	0	14	1	3	0	0	1	36	1	38
9 Columbia-Shuswap	0	1	0	0	1	5	0	0	0	0	1	6	0	7
10 Comox-Strathcona	0	1	0	5	0	5	1	0	0	0	1	11	2	14
11 Cowichan Valley	0	1	0	1	0	2	0	0	0	0	0	4	0	4
12 Dewdney-Alouette	0	1	0	1	1	7	0	0	0	0	1	9	0	10
13 East Kootenay	0	1	0	4	1	1	0	0	0	0	1	6	0	7
14 Fraser-Cheam	0	1	0	2	1	3	1	1	0	0	2	7	0	9
15 Fraser-Fort George	0	8	0	9	0	6	0	0	0	0	0	23	1	24
17 Kitimat-Stikine	0	1	0	3	0	1	0	0	0	0	0	5	1	6
18 Kootenay Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	2	1	7	0	11	0	4	0	0	1	24	2	27
21 North Okanagan	0	4	1	6	0	3	0	1	0	0	1	14	0	15
22 Okanagan-Similkameen	0	0	0	5	0	1	0	1	0	0	0	7	0	7
23 Peace River	0	1	0	1	0	0	0	0	0	0	0	2	1	3
24 Powell River	0	0	0	0	0	2	0	0	0	0	0	2	1	3
25 Skeena-Queen Charlotte	0	1	0	1	0	1	0	0	0	0	0	3	0	3
26 Squamish-Lillooet	0	0	0	0	0	3	0	3	0	0	0	6	0	6
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	1	1	1	0	0	0	1	1	3	1	5
29 Thompson-Nicola	1	2	0	12	0	9	0	1	0	0	1	24	3	28
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>0</b>	<b>25</b>	<b>3</b>	<b>178</b>	<b>2</b>	<b>162</b>	<b>2</b>	<b>37</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>403</b>	<b>48</b>	<b>458</b>
3 Capital	0	6	0	30	0	35	1	9	0	1	1	81	4	86
16 Greater Vancouver	0	19	3	148	2	127	1	28	0	0	6	322	44	372
<b>TOTAL</b>	<b>1</b>	<b>59</b>	<b>5</b>	<b>264</b>	<b>7</b>	<b>253</b>	<b>6</b>	<b>55</b>	<b>0</b>	<b>2</b>	<b>19</b>	<b>633</b>	<b>65</b>	<b>717</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Unknown.

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Table 3

**Dental Hygienists (Respondents)<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**February 1992**

<b>Regional Hospital District</b>	<b>Employed in Hygiene</b>	<b>Employed in Hygiene &amp; Other Field</b>	<b>Employed in Other Field</b>	<b>On Leave</b>	<b>Not Employed<sup>2</sup></b>	<b>No Response</b>	<b>Total</b>
<b>Non-Metropolitan - Subtotal</b>	<b>223</b>	<b>15</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>1</b>	<b>259</b>
1 Alberni-Clayoquot	4	0	0	0	0	0	4
2 Bulkley-Nechako	4	0	0	0	0	0	4
4 Cariboo	10	1	0	0	2	0	13
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	11	0	1	1	1	0	14
7 Central Kootenay	7	0	0	1	0	0	8
8 Central Okanagan	34	1	2	1	0	0	38
9 Columbia-Shuswap	5	1	0	0	1	0	7
10 Comox-Strathcona	12	1	1	0	0	0	14
11 Cowichan Valley	4	0	0	0	0	0	4
12 Dewdney-Alouette	10	0	0	0	0	0	10
13 East Kootenay	6	1	0	0	0	0	7
14 Fraser-Cheam	8	0	1	0	0	0	9
15 Fraser-Fort George	21	2	1	0	0	0	24
17 Kitimat-Stikine	6	0	0	0	0	0	6
18 Kootenay Boundary	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	22	1	0	2	1	1	27
21 North Okanagan	12	3	0	0	0	0	15
22 Okanagan-Similkameen	6	0	0	1	0	0	7
23 Peace River	3	0	0	0	0	0	3
24 Powell River	2	1	0	0	0	0	3
25 Skeena-Queen Charlotte	3	0	0	0	0	0	3
26 Squamish-Lillooet	4	2	0	0	0	0	6
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	4	0	0	0	1	0	5
29 Thompson-Nicola	25	1	0	1	1	0	28
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>387</b>	<b>10</b>	<b>9</b>	<b>27</b>	<b>20</b>	<b>5</b>	<b>458</b>
3 Capital	73	0	3	4	5	1	86
16 Greater Vancouver	314	10	6	23	15	4	372
<b>TOTAL</b>	<b>610</b>	<b>25</b>	<b>15</b>	<b>34</b>	<b>27</b>	<b>6</b>	<b>717</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes one retired hygienist.

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Table 4

Dental Hygienists (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Principal Employer

February 1992

29

Regional Hospital District	Solo Practice		Group Practice			Comm. Health Agency	Post-Sec Educational Institution	Other	No Response	Total
	General Dentist	Specialist	General Dentist	Specialist	General/ Specialist					
<b>Non-Metropolitan - Subtotal</b>	<b>155</b>	<b>2</b>	<b>52</b>	<b>1</b>	<b>4</b>	<b>10</b>	<b>9</b>	<b>3</b>	<b>23</b>	<b>259</b>
1 Alberni-Clayoquot	3	0	1	0	0	0	0	0	0	4
2 Bulkley-Nechako	4	0	0	0	0	0	0	0	0	4
4 Cariboo	6	0	4	0	1	0	0	0	2	13
5 Central Coast	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	10	0	0	0	0	0	0	0	4	14
7 Central Kootenay	6	0	0	0	0	1	0	0	1	8
8 Central Okanagan	22	1	6	1	2	1	1	0	4	38
9 Columbia-Shuswap	4	0	2	0	0	0	0	0	1	7
10 Comox-Strathcona	5	0	7	0	0	0	0	1	1	14
11 Cowichan Valley	3	0	1	0	0	0	0	0	0	4
12 Dewdney-Alouette	5	0	3	0	1	1	0	0	0	10
13 East Kootenay	7	0	0	0	0	0	0	0	0	7
14 Fraser-Cheam	8	0	0	0	0	0	0	0	1	9
15 Fraser-Fort George	10	0	5	0	0	1	7	0	1	24
17 Kitimat-Stikine	4	0	1	0	0	1	0	0	0	6
18 Kootenay Boundary	0	0	0	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	5	1	13	0	0	2	1	1	4	27
21 North Okanagan	13	0	2	0	0	0	0	0	0	15
22 Okanagan-Similkameen	4	0	1	0	0	1	0	0	1	7
23 Peace River	1	0	1	0	0	1	0	0	0	3
24 Powell River	1	0	1	0	0	0	0	1	0	3
25 Skeena-Queen Charlotte	3	0	0	0	0	0	0	0	0	3
26 Squamish-Lillooet	4	0	2	0	0	0	0	0	0	6
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	3	0	1	0	0	0	0	0	1	5
29 Thompson-Nicola	24	0	1	0	0	1	0	0	2	28
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>247</b>	<b>28</b>	<b>82</b>	<b>5</b>	<b>11</b>	<b>9</b>	<b>11</b>	<b>7</b>	<b>58</b>	<b>458</b>
3 Capital	46	10	11	0	0	3	3	1	12	86
16 Greater Vancouver	201	18	71	5	11	6	8	6	46	372
<b>TOTAL</b>	<b>402</b>	<b>30</b>	<b>134</b>	<b>6</b>	<b>15</b>	<b>19</b>	<b>20</b>	<b>10</b>	<b>81</b>	<b>717</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 5

Dental Hygienists (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Principal Area of Responsibility

February 1992

Regional Hospital District	Clinical Service	Community Dental Health	Instruction in Dental Hygiene	Instruction in Dental Assisting	Admin.	Consulting Services	Other	No Response	Total
<b>Non-Metropolitan - Subtotal</b>	<b>216</b>	<b>11</b>	<b>6</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>23</b>	<b>259</b>
1 Alberni-Clayoquot	4	0	0	0	0	0	0	0	4
2 Bulkley-Nechako	4	0	0	0	0	0	0	0	4
4 Cariboo	11	0	0	0	0	0	0	2	13
5 Central Coast	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	10	0	0	0	0	0	0	4	14
7 Central Kootenay	6	1	0	0	0	0	0	1	8
8 Central Okanagan	32	1	0	1	0	0	0	4	38
9 Columbia-Shuswap	6	0	0	0	0	0	0	1	7
10 Comox-Strathcona	13	0	0	0	0	0	0	1	14
11 Cowichan Valley	4	0	0	0	0	0	0	0	4
12 Dewdney-Alouette	9	1	0	0	0	0	0	0	10
13 East Kootenay	7	0	0	0	0	0	0	0	7
14 Fraser-Cheam	8	0	0	0	0	0	0	1	9
15 Fraser-Fort George	15	1	6	0	1	0	0	1	24
17 Kitimat-Stikine	5	1	0	0	0	0	0	0	6
18 Kootenay Boundary	0	0	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0	0
20 Nanaimo	20	2	0	0	0	1	0	4	27
21 North Okanagan	15	0	0	0	0	0	0	0	15
22 Okanagan-Similkameen	5	1	0	0	0	0	0	1	7
23 Peace River	2	1	0	0	0	0	0	0	3
24 Powell River	2	1	0	0	0	0	0	0	3
25 Skeena-Queen Charlotte	3	0	0	0	0	0	0	0	3
26 Squamish-Lillooet	6	0	0	0	0	0	0	0	6
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	4	0	0	0	0	0	0	1	5
29 Thompson-Nicola	25	1	0	0	0	0	0	2	28
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>373</b>	<b>10</b>	<b>9</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>1</b>	<b>59</b>	<b>458</b>
3 Capital	68	3	2	0	1	0	0	12	86
16 Greater Vancouver	305	7	7	2	3	0	1	47	372
<b>TOTAL</b>	<b>589</b>	<b>21</b>	<b>15</b>	<b>3</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>82</b>	<b>717</b>

<sup>1</sup>Definitions are as in the attached text.

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## DENTAL TECHNICIANS

## DENTAL TECHNICIANS

**Definition:** A dental technician is licensed to

- "(a) make, produce, reproduce, construct, furnish, supply, alter and repair a denture, bridge or prosthetic appliance or thing to be used in, on, in connection with, or in the treatment of a human tooth, jaw or associated structure or tissue for a person in accordance with a prescription to perform any of those services for that person; and
- (b) make structural repairs to a removable dental prosthesis, or to replace teeth in a denture without a prescription..."

where the services can be performed without intraoral procedures or the taking of impressions.<sup>1</sup>

**Governing Statute:** Dental Technicians and Denturists Act, Revised Statutes of British Columbia, 1979, Chapter 91; administered by the Ministry of Health.

**Governing Body:** Dental Technicians and Denturists Board of British Columbia (DTDBBC). In order to practise as a Dental Technician in British Columbia, it is necessary to be licensed by the Dental Technicians and Denturists Board of British Columbia. Registered dental technicians have exclusive use of the titles: *Dental Technician, Certified Dental Technician and Registered Dental Technician.*

**Date of Record:** September 1989 and January 1992.

**Source of Data:** Dental Technicians and Denturists Board of British Columbia.

### **Preparation and Updating:**

The tables, derived from the *Nominal Roll* supplied by the DTDBBC, include information on licensed dental technicians in British Columbia organized according to their last reported address at the date of record. Table 1 includes information on all dental technicians licensed to practice in British Columbia. Table 2 reports information on Registered Dental Technicians only.

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<sup>1</sup>*Dental Technicians and Denturists Act, 1979, RSBC Chap. 91, S.5(1).*

**Definition of Terms:**

A registered dental technician is licensed by the Dental Technicians and Denturists Board.

An apprentice technician is registered by the Dental Technicians and Denturists Board and is licensed to practise under the supervision of a registered dental technician.

A student technician is registered by the Dental Technicians and Denturists Board and is licensed to practise under the supervision of a registered dental technician. After 18 months work experience, a student technician is eligible to undertake the certifying exams to become a registered dental technician.

A temporary registrant (formerly a technician on permit) has not yet completed his/her registration examinations, but is licensed to practise under the supervision of a registered dental technician. Included in this category are new arrivals to the province.

**Registered Dental Technicians  
per 10,000 Population  
by Regional Hospital District  
January 1992  
N=425**

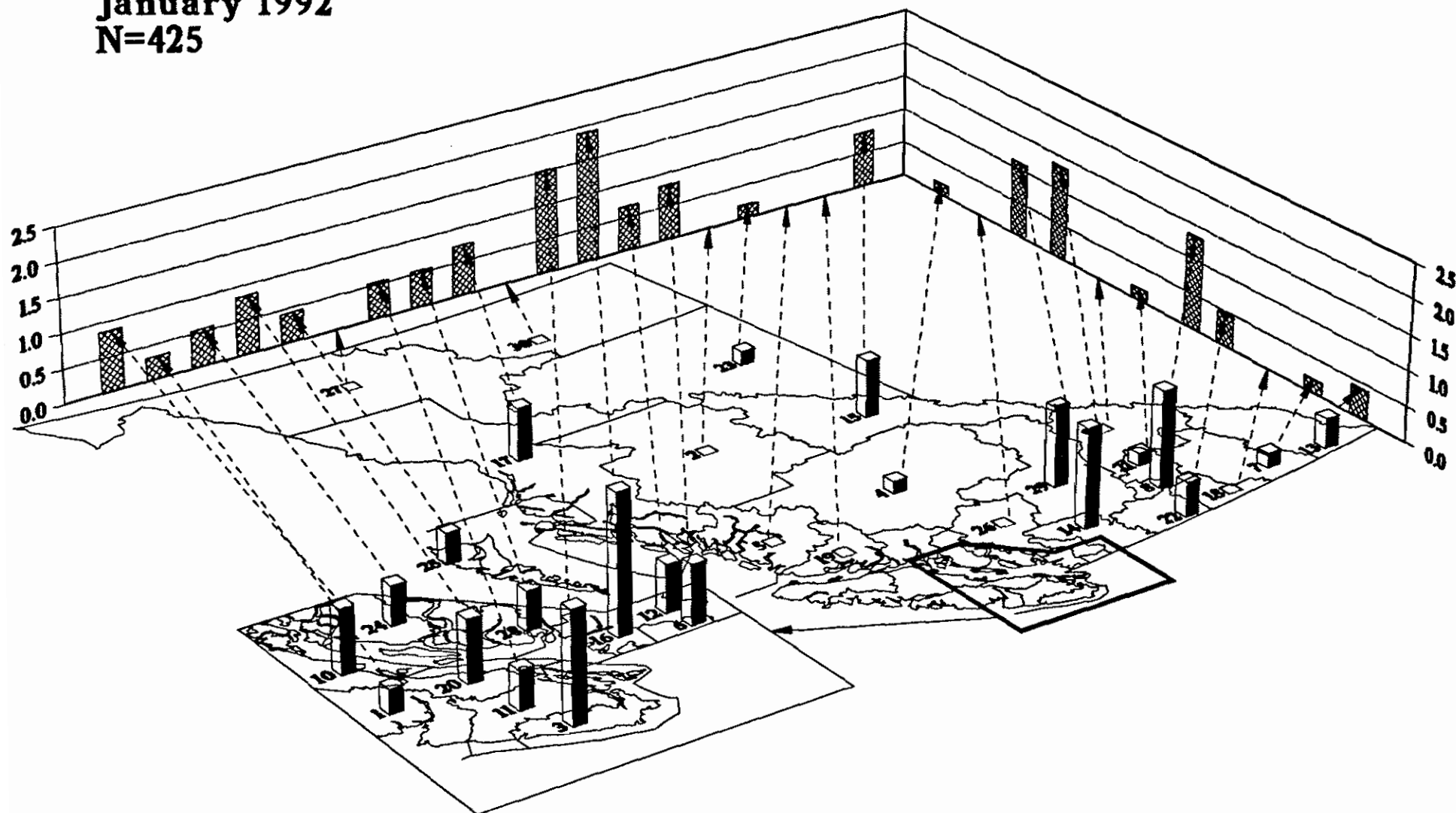


Table 1

**Licensed Dental Technicians<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Registration Status**  
**January 1992<sup>2</sup>**

<b>Regional Hospital District</b>	<b>Registered Technician</b>	<b>Temporary Registrant<sup>1</sup></b>	<b>Apprentice</b>	<b>Student</b>	<b>Non-Practising</b>	<b>Total</b>
<b>Non-Metropolitan - Subtotal</b>	<b>88</b>	<b>5</b>	<b>3</b>	<b>9</b>	<b>8</b>	<b>113</b>
1 Alberni-Clayoquot	1	0	0	0	0	1
2 Bulkley-Nechako	0	0	0	0	0	0
4 Cariboo	1	0	0	0	0	1
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	7	0	0	2	0	9
7 Central Kootenay	1	0	0	0	0	1
8 Central Okanagan	14	0	1	3	0	18
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	7	0	1	2	1	11
11 Cowichan Valley	3	0	0	0	0	3
12 Dewdney-Alouette	6	1	0	1	1	9
13 East Kootenay	2	0	0	0	0	2
14 Fraser-Cheam	9	2	0	0	2	13
15 Fraser-Fort George	7	0	0	0	0	7
17 Kitimat-Stikine	3	0	0	0	0	3
18 Kootenay Boundary	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	8	0	1	0	2	11
21 North Okanagan	1	0	0	1	0	2
22 Okanagan-Similkameen	3	1	0	0	0	4
23 Peace River	1	0	0	0	0	1
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	1	0	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	1
29 Thompson-Nicola	11	1	0	0	1	13
30 Fort Nelson/Liard	0	0	0	0	1	1
<b>Metropolitan - Subtotal</b>	<b>337</b>	<b>43</b>	<b>5</b>	<b>32</b>	<b>8</b>	<b>425</b>
3 Capital	45	4	0	0	1	50
16 Greater Vancouver	292	39	5	32	7	375
<b>TOTAL</b>	<b>425</b>	<b>48</b>	<b>8</b>	<b>41</b>	<b>16</b>	<b>538</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Data exclude 3 Temporary Registrants, 2 Apprentices and 3 Students with unknown locations.

<sup>3</sup>Temporary Registrant replaces the equivalent On Permit category used in ROLLCALL 89.

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Table 2

Registered Dental Technicians<sup>1</sup> in British Columbia

## by Regional Hospital District

September 1989 and January 1992

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989	1992	1989 <sup>2</sup>	1992	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>82</b>	<b>88</b>	<b>0.62</b>	<b>0.64</b>	<b>3.07</b>	<b>1.45</b>
1 Alberni-Clayoquot	1	1	0.33	0.33	*	*
2 Bulkley-Nechako	0	0	0.00	0.00	*	*
4 Cariboo	1	1	0.17	0.17	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	7	7	0.91	0.82	*	*
7 Central Kootenay	2	1	0.41	0.20	*	*
8 Central Okanagan	10	14	1.02	1.34	15.51	12.29
9 Columbia-Shuswap	0	0	0.00	0.00	*	*
10 Comox-Strathcona	8	7	1.05	0.87	*	*
11 Cowichan Valley	3	3	0.54	0.53	*	*
12 Dewdney-Alouette	5	6	0.61	0.66	*	*
13 East Kootenay	2	2	0.41	0.42	*	*
14 Fraser-Cheam	8	9	1.27	1.36	*	*
15 Fraser-Fort George	6	7	0.70	0.81	*	*
17 Kitimat-Stikine	3	3	0.77	0.74	*	*
18 Kootenay Boundary	0	0	0.00	0.00	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	10	8	1.13	0.85	-9.12	-11.46
21 North Okanagan	2	1	0.36	0.18	*	*
22 Okanagan-Similkameen	3	3	0.48	0.47	*	*
23 Peace River	0	1	0.00	0.20	*	*
24 Powell River	0	1	0.00	0.54	*	*
25 Skeena-Queen Charlotte	1	1	0.44	0.43	*	*
26 Squamish-Lillooet	0	0	0.00	0.00	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	1	1	0.56	0.54	*	*
29 Thompson-Nicola	9	11	0.92	1.10	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>317</b>	<b>337</b>	<b>1.84</b>	<b>1.84</b>	<b>2.66</b>	<b>0.21</b>
3 Capital	39	45	1.38	1.51	6.32	4.08
16 Greater Vancouver	278	292	1.93	1.91	2.13	-0.36
<b>TOTAL</b>	<b>399</b>	<b>425</b>	<b>1.31</b>	<b>1.33</b>	<b>2.74</b>	<b>0.65</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLL CALL 89. See Foreword.<sup>3</sup>Rate of change (in percent) in the number.<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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## DENTISTS

## DENTISTS

**Definition:** A dentist

diagnoses and treats diseases, injuries and malformations of teeth, gums and related oral structures and prescribes and administers preventive procedures.

Examines teeth, gums and other tissues using X-rays and dental equipment. Diagnoses condition and plans treatment. Administers local or general anaesthetic. Fills cavities with amalgam, silver, gold, or other material. Replaces portion of tooth crown with inlay or artificial crown. Performs minor oral surgery, including extractions of erupted or impacted teeth. Takes dental impressions. Designs bridgework and partial or complete dentures. Constructs dental appliances or writes specifications for dental technician. Cleans teeth. Instructs patients in oral hygiene to prevent dental problems. Monitors growth pattern of patient's teeth. Refers patients to specialists.<sup>1</sup>

**Governing Statute:** Dentists Act, Revised Statutes of British Columbia, 1979, Chapter 92; Health Statutes Amendment Act, 1990, Chapter 51, Sections 4-5; administered by the Ministry of Health.

**Governing Body:** The College of Dental Surgeons of British Columbia. In order to practise as a dentist in British Columbia, it is necessary to be registered by the College, and to hold an unexpired annual certificate (licence) under the Act.

**Date of Record:** September 1989 and December 1991.

**Source of Data:** The College of Dental Surgeons of British Columbia (CDSBC).

**Preparation and Updating:**

The tables were prepared from registration data maintained by the CDSBC and include licensed dentists who reported a British Columbia address at the date of record.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980.*

Major Group 31, No. 3113-134, p. 50, Ottawa: Employment and Immigration Canada.

## Definition of Terms:

### 1. Specialty<sup>2</sup>

Licensed dentists are allocated to the specialty in which they have been certified by the College of Dental Surgeons. The categories used in Table 1 are:

- (a) Non-specialist;
- (b) Endodontics;
- (c) Oral and Maxillofacial Surgery;
- (d) Orthodontics;
- (e) Paediatric Dentistry;
- (f) Periodontics;
- (g) Prosthodontics;
- (h) Oral Pathology;
- (i) Oral Radiology.

Tables 2 and 3 group dental specialties (b) through (i) into a specialty category, since numbers of most specialists are too small to calculate meaningful population ratio and rate of change figures.

### 2. Age and Sex

Age and sex information on licensed dentists in British Columbia, derived from CDSBC registration information, is shown in Table 4. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

### 3. Analysis of Change

Table 5 illustrates the sources of change which affected the stock of dentists from 1989 to 1991.

*New registrants* are dentists included in the December 1991 stock who registered with the CDSBC for the first time subsequent to September 1989. New registrants are recorded according to their place of graduation: i.e., from U.B.C., Other Canadian Provinces (O.Can.), or Other.

*Re-activations* (Re-Act) represent those dentists who did not renew their licence in B.C. in September 1989, but were licensed in B.C. in December 1991, and whose date of initial registration was before September 1989.

*Attrition* (Attr'n) describes dentists who were included in the September 1989 stock but who, because of death, retirement, suspension, out-of-province relocation or non-renewal of licensure, were not included in the December 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration: it records the flow of dentist between different Regional Hospital Districts. The net migration total is therefore zero.

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<sup>2</sup>For specialty definitions see: *Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, Nos. 3113-110 through 3113-130, pp. 49-50, Ottawa: Employment and Immigration Canada.

**Licensed Dentists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=2005**

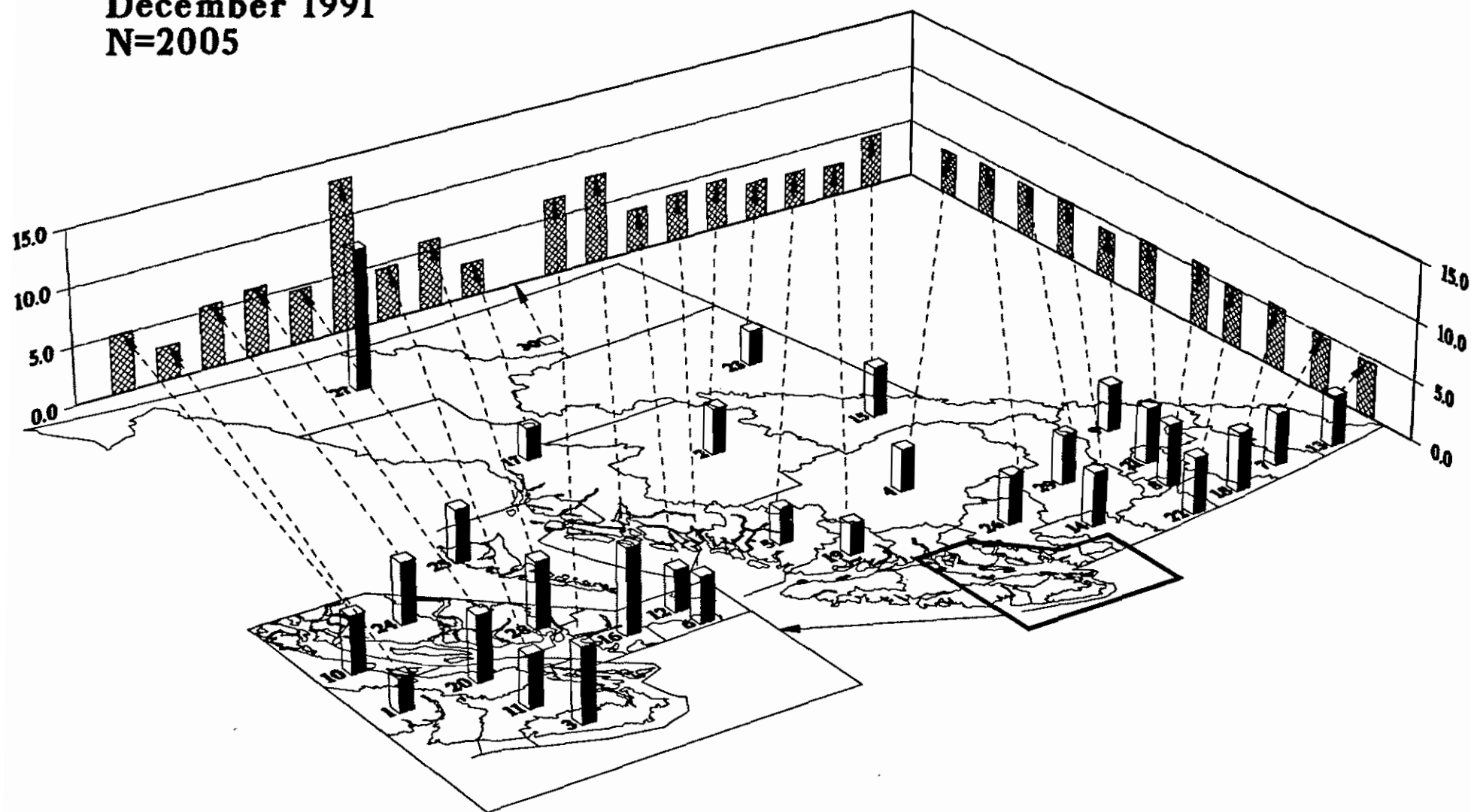


Table 1

**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Specialty**  
**September 1989 and December 1991**

Regional Hospital District	Non-Specialist		Endodontics		Oral and Maxillofacial Surgery		Orthodontics		Paediatric Dentistry	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>558</b>	<b>595</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>25</b>	<b>24</b>	<b>2</b>	<b>2</b>
1 Alberni-Clayoquot	11	9	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	11	16	0	0	0	0	0	0	0	0
4 Cariboo	24	21	0	0	0	0	3	2	0	0
5 Central Coast	2	1	0	0	0	0	0	0	0	0
6 Central Fraser Valley	28	34	0	0	0	0	1	1	0	0
7 Central Kootenay	24	24	0	0	0	0	0	0	0	0
8 Central Okanagan	48	50	1	2	0	0	3	2	0	0
9 Columbia-Shuswap	15	16	0	0	0	0	1	1	0	0
10 Comox-Strathcona	35	39	0	0	0	0	2	2	0	0
11 Cowichan Valley	24	26	0	0	0	0	0	0	0	0
12 Dewdney-Alouette	27	33	0	0	0	0	1	1	0	0
13 East Kootenay	19	21	0	0	0	0	1	1	0	0
14 Fraser-Cheam	32	30	0	0	0	0	2	2	0	0
15 Fraser-Fort George	39	37	0	0	0	0	3	2	0	0
17 Kitimat-Stikine	11	11	0	0	0	0	1	1	0	0
18 Kootenay Boundary	14	16	0	0	0	0	0	0	0	0
19 Mount Waddington	4	4	0	0	0	0	0	0	0	0
20 Nanaimo	48	50	0	0	1	1	2	2	2	2
21 North Okanagan	23	26	0	0	1	1	1	2	0	0
22 Okanagan-Similkameen	29	29	0	0	0	0	2	3	0	0
23 Peace River	13	15	0	0	0	0	0	0	0	0
24 Powell River	10	10	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	9	11	0	0	0	0	0	0	0	0
26 Squamish-Lillooet	8	10	0	0	0	0	0	0	0	0
27 Stikine	2	2	0	0	0	0	0	0	0	0
28 Sunshine Coast	8	11	0	0	0	0	0	0	0	0
29 Thompson-Nicola	39	43	0	0	0	0	2	2	0	0
30 Fort Nelson/Liard	1	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>1,159</b>	<b>1,209</b>	<b>17</b>	<b>16</b>	<b>25</b>	<b>27</b>	<b>50</b>	<b>53</b>	<b>14</b>	<b>14</b>
3 Capital	169	174	3	3	5	5	10	8	1	1
16 Greater Vancouver	990	1,035	14	13	20	22	40	45	13	13
<b>TOTAL</b>	<b>1,717</b>	<b>1,804</b>	<b>18</b>	<b>18</b>	<b>27</b>	<b>29</b>	<b>75</b>	<b>77</b>	<b>16</b>	<b>16</b>

... continued

<sup>1</sup> Definitions are as in the attached text.

**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Specialty**  
**September 1989 and December 1991**

Regional Hospital District	Periodontics		Prosthodontics		Oral Pathology		Oral Radiology		Total	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>593</b>	<b>630</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	11	9
2 Bulkley-Nechako	0	0	0	0	0	0	0	0	11	16
4 Cariboo	0	0	0	0	0	0	0	0	27	23
5 Central Coast	0	0	0	0	0	0	0	0	2	1
6 Central Fraser Valley	0	0	0	0	0	0	0	0	29	35
7 Central Kootenay	0	0	0	0	0	0	0	0	24	24
8 Central Okanagan	2	2	2	2	0	0	0	0	56	58
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	16	17
10 Comox-Strathcona	0	0	0	0	0	0	0	0	37	41
11 Cowichan Valley	0	0	0	0	0	0	0	0	24	26
12 Dewdney-Alouette	0	0	0	0	0	0	0	0	28	34
13 East Kootenay	0	0	0	0	0	0	0	0	20	22
14 Fraser-Chem	0	0	0	0	0	0	0	0	34	32
15 Fraser-Fort George	0	0	0	0	0	0	0	0	42	39
17 Kitimat-Stikine	0	0	0	0	0	0	0	0	12	12
18 Kootenay Boundary	0	0	0	0	0	0	0	0	14	16
19 Mount Waddington	0	0	0	0	0	0	0	0	4	4
20 Nanaimo	0	0	0	0	0	0	0	0	53	55
21 North Okanagan	0	0	0	0	0	0	0	0	25	29
22 Okanagan-Similkameen	0	0	0	0	0	0	0	0	31	32
23 Peace River	0	0	1	1	0	0	0	0	14	16
24 Powell River	0	0	0	0	0	0	0	0	10	10
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	0	9	11
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	8	10
27 Stikine	0	0	0	0	0	0	0	0	2	2
28 Sunshine Coast	0	0	0	0	0	0	0	0	8	11
29 Thompson-Nicola	0	0	0	0	0	0	0	0	41	45
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	1	0
<b>Metropolitan - Subtotal</b>	<b>21</b>	<b>22</b>	<b>24</b>	<b>24</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1,312</b>	<b>1,367</b>
3 Capital	3	4	2	2	0	0	0	0	193	197
16 Greater Vancouver	18	18	22	22	1	1	1	1	1,119	1,170
<b>TOTAL</b>	<b>23</b>	<b>24</b>	<b>27</b>	<b>27</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1,905</b>	<b>1,997</b>

<sup>1</sup> Definitions are as in the attached text.

Table 2

**Licensed Dentists<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Specialist and Non-Specialist**  
**September 1989<sup>2</sup> and December 1991**

Regional Hospital District	Non-Specialist		Specialist		Total	
	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>4.21</b>	<b>4.25</b>	<b>0.26</b>	<b>0.25</b>	<b>4.47</b>	<b>4.50</b>
1 Alberni-Clayoquot	3.67	2.98	0.00	0.00	3.67	2.98
2 Bulkley-Nechako	2.97	4.27	0.00	0.00	2.97	4.27
4 Cariboo	4.12	3.60	0.51	0.34	4.63	3.94
5 Central Coast	6.27	3.18	0.00	0.00	6.27	3.18
6 Central Fraser Valley	3.66	4.02	0.13	0.12	3.79	4.14
7 Central Kootenay	4.95	4.71	0.00	0.00	4.95	4.71
8 Central Okanagan	4.91	4.58	0.82	0.73	5.73	5.31
9 Columbia-Shuswap	3.78	3.87	0.25	0.24	4.04	4.11
10 Comox-Strathcona	4.58	4.78	0.26	0.25	4.84	5.03
11 Cowichan Valley	4.35	4.38	0.00	0.00	4.35	4.38
12 Dewdney-Alouette	3.28	3.70	0.12	0.11	3.40	3.81
13 East Kootenay	3.91	4.34	0.21	0.21	4.11	4.55
14 Fraser-Cheam	5.08	4.36	0.32	0.29	5.40	4.65
15 Fraser-Fort George	4.52	4.30	0.35	0.23	4.87	4.53
17 Kitimat-Stikine	2.81	2.78	0.26	0.25	3.06	3.04
18 Kootenay Boundary	4.69	5.16	0.00	0.00	4.69	5.16
19 Mount Waddington	2.82	2.93	0.00	0.00	2.82	2.93
20 Nanaimo	5.44	5.14	0.57	0.51	6.00	5.65
21 North Okanagan	4.09	4.35	0.36	0.50	4.45	4.85
22 Okanagan-Similkameen	4.68	4.37	0.32	0.45	5.01	4.82
23 Peace River	2.63	2.91	0.20	0.19	2.84	3.11
24 Powell River	5.50	5.35	0.00	0.00	5.50	5.35
25 Skeena-Queen Charlotte	3.93	4.73	0.00	0.00	3.93	4.73
26 Squamish-Lillooet	3.73	4.54	0.00	0.00	3.73	4.54
27 Stikine	12.63	12.45	0.00	0.00	12.63	12.45
28 Sunshine Coast	4.48	5.48	0.00	0.00	4.48	5.48
29 Thompson-Nicola	3.98	4.28	0.20	0.20	4.19	4.48
30 Fort Nelson/Liard	2.13	0.00	0.00	0.00	2.13	0.00
<b>Metropolitan - Subtotal</b>	<b>6.71</b>	<b>6.66</b>	<b>0.89</b>	<b>0.87</b>	<b>7.60</b>	<b>7.54</b>
3 Capital	5.97	5.84	0.85	0.77	6.82	6.61
16 Greater Vancouver	6.86	6.83	0.89	0.89	7.75	7.72
<b>TOTAL</b>	<b>5.62</b>	<b>5.61</b>	<b>0.62</b>	<b>0.60</b>	<b>6.24</b>	<b>6.22</b>

<sup>1</sup> Definitions are as in the attached text.

<sup>2</sup> These figures differ from the the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

Table 3

**Average Annual Rate of Change: Licensed Dentists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Specialist and Non-Specialist**  
**September 1989 to December 1991**

Regional Hospital District	Non-Specialist		Specialist		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>2.89</b>	<b>0.48</b>	<b>0.00</b>	<b>-2.35</b>	<b>2.73</b>	<b>0.32</b>
1 Alberni-Clayoquot	-8.53	-8.89	*	*	-8.53	-8.89
2 Bulkley-Nechako	18.12	17.55	*	*	18.12	17.55
4 Cariboo	-5.76	-5.83	*	*	-6.88	-6.95
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	9.01	4.32	*	*	8.72	4.04
7 Central Kootenay	0.00	-2.20	*	*	0.00	-2.20
8 Central Okanagan	1.83	-3.05	*	*	1.57	-3.30
9 Columbia-Shuswap	2.91	1.02	*	*	2.73	0.84
10 Comox-Strathcona	4.93	1.93	*	*	4.67	1.67
11 Cowichan Valley	3.62	0.29	*	*	3.62	0.29
12 Dewdney-Alouette	9.33	5.50	*	*	9.01	5.20
13 East Kootenay	4.55	4.78	*	*	4.33	4.56
14 Fraser-Cheam	-2.83	-6.64	*	*	-2.66	-6.48
15 Fraser-Fort George	-2.31	-2.20	*	*	-3.24	-3.13
17 Kitimat-Stikine	0.00	-0.34	*	*	0.00	-0.34
18 Kootenay Boundary	6.11	4.28	*	*	6.11	4.28
19 Mount Waddington	*	*	*	*	*	*
20 Nanaimo	1.83	-2.49	*	*	1.66	-2.65
21 North Okanagan	5.60	2.71	*	*	6.82	3.89
22 Okanagan-Similkameen	0.00	-3.06	*	*	1.42	-1.68
23 Peace River	6.57	4.57	*	*	6.11	4.12
24 Powell River	0.00	-1.24	*	*	0.00	-1.24
25 Skeena-Queen Charlotte	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*
29 Thompson-Nicola	4.44	3.25	*	*	4.22	3.04
30 Fort Nelson/Liard	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>1.89</b>	<b>-0.31</b>	<b>1.44</b>	<b>-0.75</b>	<b>1.84</b>	<b>-0.36</b>
3 Capital	1.30	-0.99	-1.87	-4.10	0.92	-1.37
16 Greater Vancouver	2.00	-0.19	2.04	-0.14	2.00	-0.18
<b>TOTAL</b>	<b>2.22</b>	<b>-0.07</b>	<b>1.17</b>	<b>-1.10</b>	<b>2.12</b>	<b>-0.17</b>

<sup>1</sup> Definitions are as in the attached text.

<sup>2</sup> Rate of change (in percent) in the number.

<sup>3</sup> Rate of change (in percent) in the number per 10,000 population.

\* Indicates that the base for the rate of change is less than 10.



Table 4

**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Age and Sex**  
**December 1991**

Regional Hospital District	< 25		25-34		35-44		45-54		55-64		65 +		Subtotal		Unknown	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>99</b>	<b>23</b>	<b>242</b>	<b>27</b>	<b>158</b>	<b>2</b>	<b>66</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>578</b>	<b>52</b>	<b>0</b>	<b>630</b>
1 Alberni-Clayoquot	0	0	0	0	2	0	5	0	2	0	0	0	9	0	0	9
2 Bulkley-Nechako	0	0	5	0	7	0	3	0	1	0	0	0	16	0	0	16
4 Cariboo	0	0	6	2	9	1	2	0	3	0	0	0	20	3	0	23
5 Central Coast	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1
6 Central Fraser Valley	0	0	6	3	14	2	8	0	2	0	0	0	30	5	0	35
7 Central Kootenay	0	0	3	1	13	0	5	0	2	0	0	0	23	1	0	24
8 Central Okanagan	0	0	8	1	21	3	16	0	7	0	2	0	54	4	0	58
9 Columbia-Shuswap	0	0	1	1	7	0	7	0	1	0	0	0	16	1	0	17
10 Comox-Strathcona	0	0	5	4	16	2	10	0	3	0	1	0	35	6	0	41
11 Cowichan Valley	0	0	3	2	7	2	8	0	4	0	0	0	22	4	0	26
12 Dewdney-Alouette	0	0	8	2	10	4	3	0	5	0	2	0	28	6	0	34
13 East Kootenay	0	0	1	0	10	1	7	0	2	0	1	0	21	1	0	22
14 Fraser-Cheam	0	0	6	2	10	2	7	0	4	0	1	0	28	4	0	32
15 Fraser-Fort George	0	0	7	4	12	3	9	0	3	0	1	0	32	7	0	39
17 Kitimat-Stikine	0	0	3	0	4	0	3	0	2	0	0	0	12	0	0	12
18 Kootenay Boundary	0	0	2	0	6	0	5	0	3	0	0	0	16	0	0	16
19 Mount Waddington	0	0	0	0	2	0	1	0	1	0	0	0	4	0	0	4
20 Nanaimo	1	0	8	1	23	4	14	0	3	0	1	0	50	5	0	55
21 North Okanagan	0	0	7	0	8	0	10	1	3	0	0	0	28	1	0	29
22 Okanagan-Similkameen	0	0	3	0	14	0	10	0	4	0	1	0	32	0	0	32
23 Peace River	0	0	2	0	7	1	5	0	1	0	0	0	15	1	0	16
24 Powell River	0	0	1	0	4	0	3	0	2	0	0	0	10	0	0	10
25 Skeena-Queen Charlotte	0	0	3	0	4	0	4	0	0	0	0	0	11	0	0	11
26 Squamish-Lillooet	0	0	3	0	3	1	2	0	1	0	0	0	9	1	0	10
27 Stikine	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	2
28 Sunshine Coast	0	0	1	0	5	0	3	1	0	0	1	0	10	1	0	11
29 Thompson-Nicola	0	0	7	0	23	1	7	0	6	0	1	0	44	1	0	45
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>0</b>	<b>1</b>	<b>218</b>	<b>86</b>	<b>431</b>	<b>80</b>	<b>303</b>	<b>21</b>	<b>142</b>	<b>7</b>	<b>68</b>	<b>1</b>	<b>1,162</b>	<b>196</b>	<b>9</b>	<b>1,367</b>
3 Capital	0	0	28	5	67	5	51	1	27	0	12	0	185	11	1	197
16 Greater Vancouver	0	1	190	81	364	75	252	20	115	7	56	1	977	185	8	1,170
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>317</b>	<b>109</b>	<b>673</b>	<b>107</b>	<b>461</b>	<b>23</b>	<b>208</b>	<b>7</b>	<b>80</b>	<b>1</b>	<b>1,740</b>	<b>248</b>	<b>9</b>	<b>1,997</b>

<sup>1</sup> Definitions are as in the attached text.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 5

**Analysis of Change in the Number of Licensed Dentists  
in British Columbia by Regional Hospital District  
September 1989 to December 1991**

Regional Hospital District	September 1989	New Registrants <sup>1</sup> by Place of Graduation				Reactivation <sup>2</sup>	Attrition <sup>3</sup>	Net Intra-provincial Migration	December 1991
		B.C.	Other Canada	Other Country	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>593</b>	<b>26</b>	<b>19</b>	<b>11</b>	<b>56</b>	<b>13</b>	<b>28</b>	<b>-4</b>	<b>630</b>
1 Alberni-Clayoquot	11	0	0	0	0	0	2	0	9
2 Bulkley-Nechako	11	1	2	0	3	0	1	3	16
4 Cariboo	27	2	1	1	4	0	2	-6	23
5 Central Coast	2	0	0	0	0	0	0	-1	1
6 Central Fraser Valley	29	1	1	0	2	0	1	5	35
7 Central Kootenay	24	1	0	0	1	1	1	-1	24
8 Central Okanagan	56	0	1	2	3	2	2	-1	58
9 Columbia-Shuswap	16	0	1	0	1	0	0	0	17
10 Comox-Strathcona	37	1	3	0	4	1	1	0	41
11 Cowichan Valley	24	2	1	1	4	0	3	1	26
12 Dewdney-Alouette	28	4	0	1	5	1	1	1	34
13 East Kootenay	20	0	2	1	3	0	0	-1	22
14 Fraser-Cheam	34	1	1	0	2	2	2	-4	32
15 Fraser-Fort George	42	2	1	0	3	1	4	-3	39
17 Kitimat-Stikine	12	0	0	0	0	0	1	1	12
18 Kootenay Boundary	14	0	0	1	1	0	1	2	16
19 Mount Waddington	4	0	0	0	0	0	0	0	4
20 Nanaimo	53	1	0	1	2	3	1	-2	55
21 North Okanagan	25	3	2	0	5	0	1	0	29
22 Okanagan-Similkameen	31	0	2	0	2	1	1	-1	32
23 Peace River	14	0	0	1	1	0	0	1	16
24 Powell River	10	1	0	0	1	0	1	0	10
25 Skeena-Queen Charlotte	9	1	1	1	3	0	1	0	11
26 Squamish-Lillooet	8	1	0	0	1	0	0	1	10
27 Stikine	2	0	0	0	0	0	0	0	2
28 Sunshine Coast	8	1	0	0	1	0	0	2	11
29 Thompson-Nicola	41	3	0	1	4	1	1	0	45
30 Fort Nelson/Liard	1	0	0	0	0	0	0	-1	0
<b>Metropolitan - Subtotal</b>	<b>1,312</b>	<b>47</b>	<b>35</b>	<b>17</b>	<b>99</b>	<b>32</b>	<b>80</b>	<b>4</b>	<b>1,367</b>
3 Capital	193	9	5	1	15	4	18	3	197
16 Greater Vancouver	1,119	38	30	16	84	28	62	1	1,170
<b>TOTAL</b>	<b>1,905</b>	<b>73</b>	<b>54</b>	<b>28</b>	<b>155</b>	<b>45</b>	<b>108</b>	<b>0</b>	<b>1,997</b>

<sup>1</sup> Dentists who reported B.C. addresses and were licensed in December 1991 and whose date of initial registration was after September 1989.

<sup>2</sup> Dentists who reported B.C. addresses and were licensed in December 1991 but not in September 1989 and who were registered for the first time before September 1989.

<sup>3</sup> Dentists who reported B.C. addresses and were licensed in September 1989 but not in December 1991.

## DENTURISTS

DENTURISTS<sup>1</sup>

**Definition:** A denturist is licensed

"subject to terms and conditions established by the rules or set out in his certificate of registration

- (a) to make, repair, reline, replace, or furnish upper or lower full dentures, or both, and for that purpose carry out nonsurgical intraoral procedures, including the taking of impressions that are necessary to make, repair, reline, replace or furnish upper or lower full dentures, or both, and
- (b) where the repairs or replacement can be done without intraoral procedures or the taking of impressions, make structural repairs to a removable dental prosthesis or replace teeth in a denture."<sup>2</sup>

**Governing Statute:** Dental Technicians and Denturists Act, Revised Statutes of British Columbia, 1979, Chapter 91; administered by the Ministry of Health.

**Governing Body:** Dental Technicians and Denturists Board of British Columbia (DTDBBC). In order to practise as a Denturist in British Columbia, it is necessary to be licensed by the Dental Technicians and Denturists Board. Registered denturists have exclusive use of the titles: *Denturist*, *Certified Denturist* and *Registered Denturist*.

**Date of Record:** October 1989 and December 1991.

**Source of Data:** Dental Technicians and Denturists Board of British Columbia.

**Preparation and Updating:**

Information reported in the tables is derived from the *Nominal Roll* supplied by the DTDBBC and organized according to the registrant's last reported address at the date of record. Table 1 includes information on all denturists licensed to practice in British Columbia. Table 2 reports information on Registered Denturists only.

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<sup>1</sup>Formerly listed as Dental Mechanics in ROLLCALL 89.

<sup>2</sup>*Dental Technicians and Denturists Act*, 1979, RSBC Chap. 91, S.5(2).

**Definition of Terms:**

A registered denturist is licensed by the Dental Technicians and Denturists Board of British Columbia.

A temporary registrant (formerly a denturist on permit) has not yet completed the DDTDBBC registration examinations, but is licensed to practise under the supervision of a registered denturist. Included in this category are new arrivals to the province.

An apprentice denturist is registered by the Dental Technicians and Denturists Board and is licensed to practise under the supervision of a registered denturist.

A student denturist is registered by the Dental Technicians and Denturists Board and is licensed to practise under the supervision of a registered denturist. After 18 months work experience, a student denturist is eligible to undertake the certification exams to become a registered denturist.

**Registered Denturists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=189**

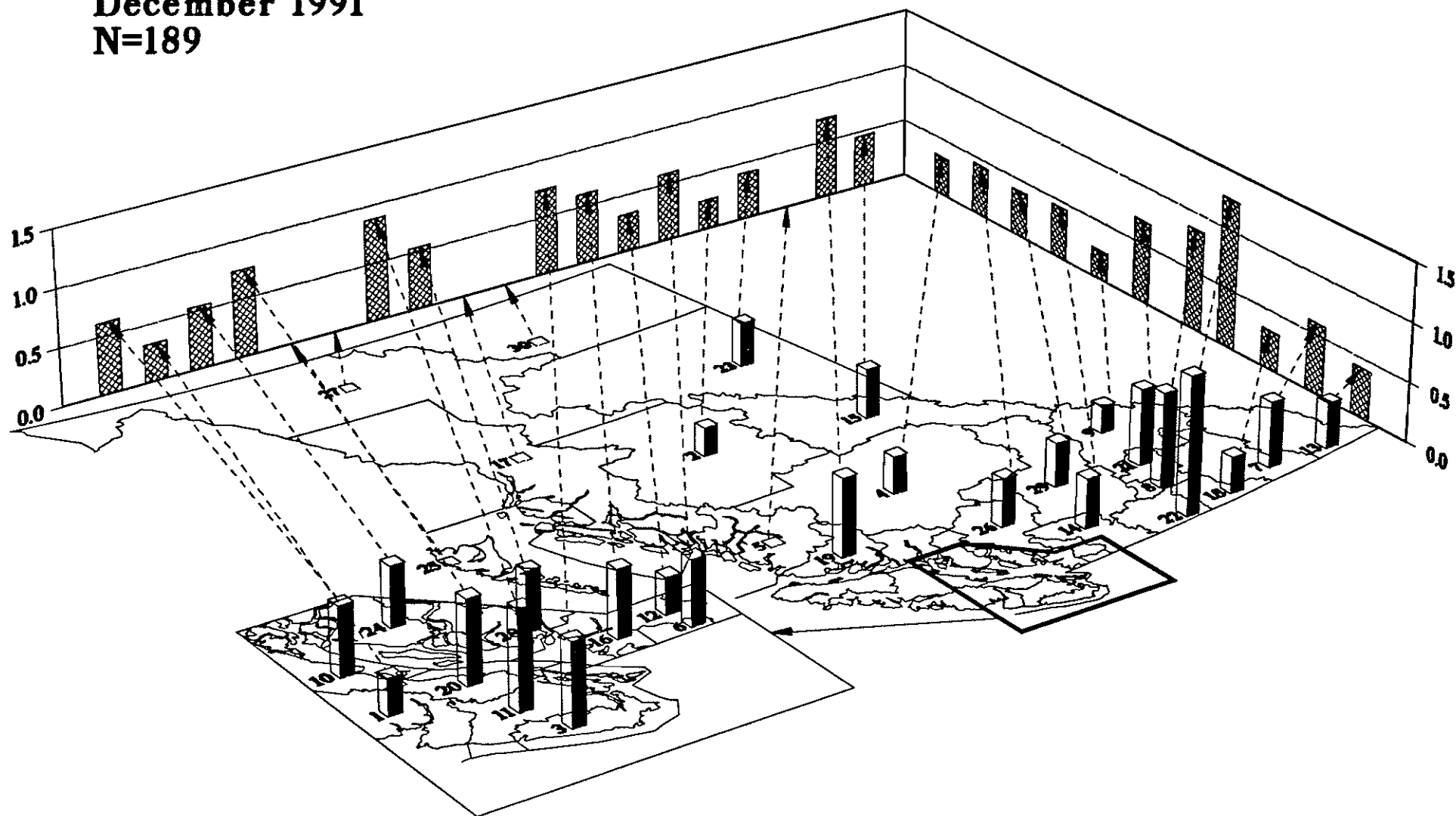


Table 1

Licensed Denturists<sup>1</sup> in British Columbia

## by Regional Hospital District

December 1991<sup>2</sup>

Regional Hospital District	Registered Denturist	Temporary Registrant	Apprentice	Student	Non- Practising	Total
<b>Non-Metropolitan - Subtotal</b>	<b>74</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>86</b>
1 Alberni-Clayoquot	1	0	0	0	0	1
2 Bulkley-Nechako	1	0	0	1	0	2
4 Cariboo	2	0	0	0	0	2
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	5	0	0	0	0	5
7 Central Kootenay	3	0	0	0	2	5
8 Central Okanagan	9	1	0	0	0	10
9 Columbia-Shuswap	1	0	0	0	0	1
10 Comox-Strathcona	5	0	0	0	0	5
11 Cowichan Valley	5	0	0	0	0	5
12 Dewdney-Alouette	3	0	0	0	1	4
13 East Kootenay	2	0	0	0	0	2
14 Fraser-Cheam	3	0	0	0	1	4
15 Fraser-Fort George	4	0	0	0	0	4
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	1	0	0	0	1	2
19 Mount Waddington	1	0	1	0	0	2
20 Nanaimo	7	0	0	1	0	8
21 North Okanagan	4	0	0	0	0	4
22 Okanagan-Similkameen	8	0	0	1	1	10
23 Peace River	2	0	0	0	0	2
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	0	0
26 Squamish-Lillooet	1	0	0	0	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	1
29 Thompson-Nicola	4	0	0	0	1	5
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>115</b>	<b>5</b>	<b>0</b>	<b>12</b>	<b>11</b>	<b>143</b>
3 Capital	22	0	0	3	1	26
16 Greater Vancouver	93	5	0	9	10	117
<b>TOTAL</b>	<b>189</b>	<b>6</b>	<b>1</b>	<b>15</b>	<b>18</b>	<b>229</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Data exclude 1 Temporary Registrant, 1 Apprentice and 1 Non-Practising denturist with unknown location.

Table 2

Registered Denturists<sup>1</sup> in British Columbia

## by Regional Hospital District

October 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>7</sup>	
	1989	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>78</b>	<b>74</b>	<b>0.59</b>	<b>0.54</b>	<b>-2.40</b>	<b>-4.06</b>
1 Alberni-Clayoquot	0	1	0.00	0.33	*	*
2 Bulkley-Nechako	1	1	0.27	0.26	*	*
4 Cariboo	2	2	0.34	0.34	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	4	5	0.52	0.59	*	*
7 Central Kootenay	4	3	0.82	0.60	*	*
8 Central Okanagan	8	9	0.82	0.86	*	*
9 Columbia-Shuswap	1	1	0.25	0.25	*	*
10 Comox-Strathcona	5	5	0.65	0.62	*	*
11 Cowichan Valley	5	5	0.91	0.88	*	*
12 Dewdney-Alouette	4	3	0.49	0.33	*	*
13 East Kootenay	2	2	0.41	0.42	*	*
14 Fraser-Cheam	4	3	0.64	0.45	*	*
15 Fraser-Fort George	3	4	0.35	0.46	*	*
17 Kitimat-Stikine	0	0	0.00	0.00	*	*
18 Kootenay Boundary	3	1	1.01	0.33	*	*
19 Mount Waddington	1	1	0.70	0.71	*	*
20 Nanaimo	8	7	0.91	0.75	*	*
21 North Okanagan	3	4	0.53	0.70	*	*
22 Okanagan-Similkameen	9	8	1.45	1.26	*	*
23 Peace River	2	2	0.41	0.41	*	*
24 Powell River	1	1	0.55	0.54	*	*
25 Skeena-Queen Charlotte	1	0	0.44	0.00	*	*
26 Squamish-Lillooet	1	1	0.47	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	1	1	0.56	0.54	*	*
29 Thompson-Nicola	5	4	0.51	0.40	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>124</b>	<b>115</b>	<b>0.72</b>	<b>0.63</b>	<b>-3.42</b>	<b>-5.89</b>
3 Capital	23	22	0.81	0.74	-2.03	-4.26
16 Greater Vancouver	101	93	0.70	0.61	-3.74	-6.26
<b>TOTAL</b>	<b>202</b>	<b>189</b>	<b>0.66</b>	<b>0.59</b>	<b>-3.02</b>	<b>-5.14</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>A twenty-six month rate of change has been adjusted to an annual figure.<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.<sup>4</sup>Rate of change (in percent) in the number.<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.<sup>6</sup>Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia



### **III. HEALTH STANDARDS**



## **PUBLIC HEALTH INSPECTORS**

## PUBLIC HEALTH INSPECTORS

**Definition:** A public health inspector

"enforces laws and regulations governing health standards and provides advice, performing any combination of the following duties:

locates persons suspected of exposure to communicable diseases to prevent further spread of disease. Interviews exposed persons to secure information concerning other persons who may have been exposed. Advises people to obtain treatment. Inspects restaurants, hotels, cafeterias and other public places to ensure compliance with sanitation laws. Takes samples of water, food and air, and orders chemical, physical or biological tests to determine contamination. Visits plants where food, drugs, cosmetics and similar items are manufactured to investigate sanitary conditions and health and hygiene habits of persons handling consumer products. Destroys subgrades or prohibits sale of impure, toxic, damaged or misbranded items. Ascertains that required permits have been obtained and are displayed. Inspects nursing homes and hospitals to ensure conformance with standards and laws governing sanitation, facilities, ethical practices, maintenance of records and competence of personnel. Recommends changes in administrative procedures, facilities and standards to improve efficiency and service to patients. Applies regulations governing manufacture, labelling and sale of upholstered and stuffed articles to ensure use of approved materials. Inspects waste disposal sites to ensure that pollution control regulations are followed. Inspects water wells to enforce provisions of permits. Writes reports and issues violation notices and corrective orders."<sup>1</sup>

**Governing Statute:** Health Act, Revised Statutes of British Columbia, 1979, Chapter 161.

**Governing Body:** Board of Certification of Public Health Inspectors of the Canadian Public Health Association. No person shall be appointed to the position of public health inspector unless he or she holds a certificate in Public Health (Canada) or the acceptable authorized equivalent. Members of the British Columbia Branch of the Canadian Institute of Public Health Inspectors have exclusive use of the titles: *Registered Public Health Inspector*, *Registered Environmental Health Officer*, *RPHI*, and *REHO*.

**Date of Record:** December 1989 and August 1991.

**Source of Data:** British Columbia Branch of the Canadian Institute of Public Health Inspectors.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980.*

Major Group 11, No. 1116-158, p. 33, Ottawa: Employment and Immigration Canada.

**Preparation and Updating:**

A list of public health inspectors employed in British Columbia was prepared by the British Columbia Branch of the Canadian Institute of Public Health Inspectors. The table includes all persons known to be employed in provincial, municipal or federal positions in British Columbia at the date of record.

**Public Health Inspectors  
per 10,000 Population  
by Regional Hospital District  
August 1991  
N=244**

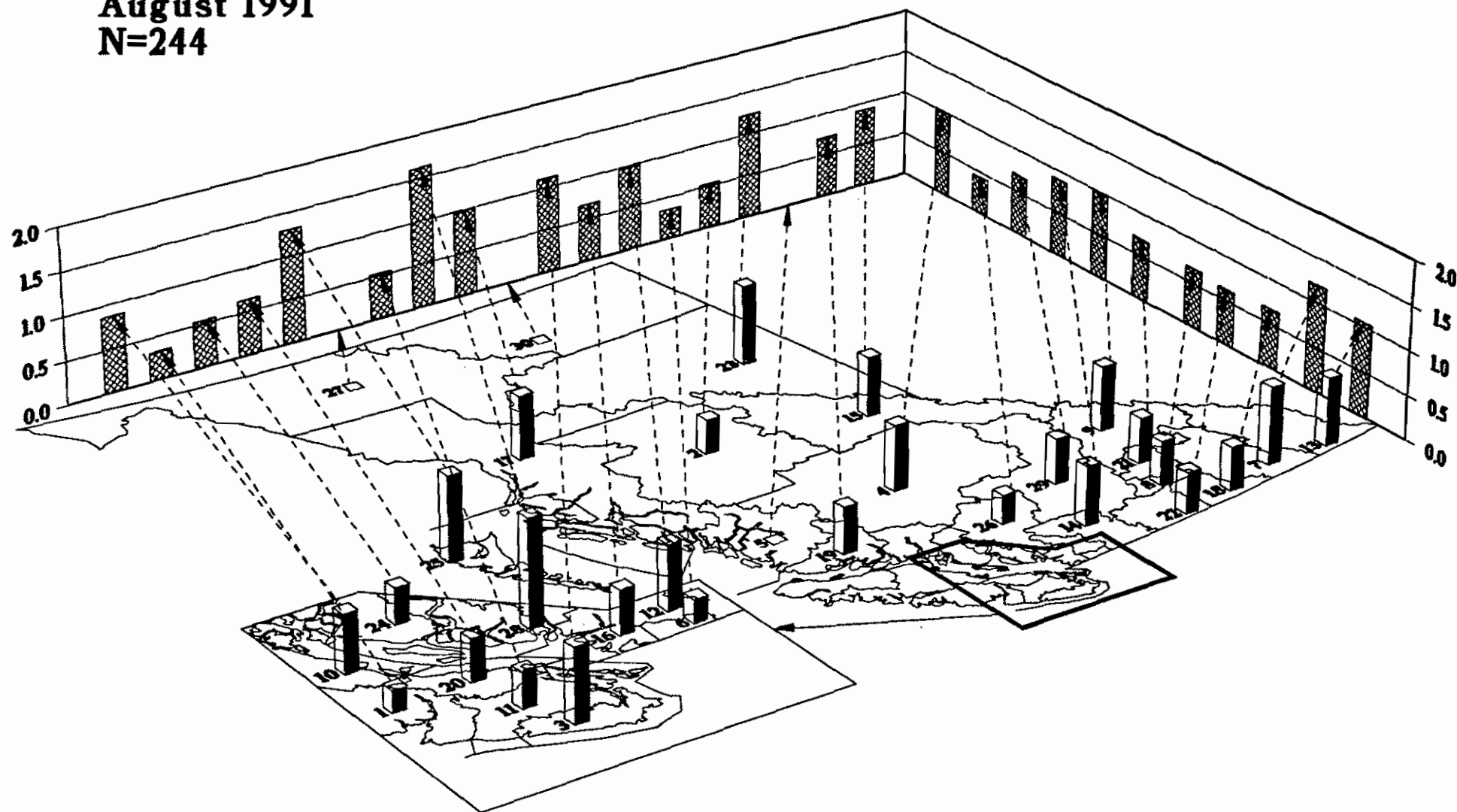


Table 1

**Public Health Inspectors<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1989 and August 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1989	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>95</b>	<b>109</b>	<b>0.72</b>	<b>0.79</b>	<b>6.82</b>	<b>4.94</b>
1 Alberni-Clayoquot	1	1	0.33	0.33	*	*
2 Bulkley-Nechako	2	2	0.54	0.53	*	*
4 Cariboo	5	6	0.86	1.01	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	2	3	0.26	0.35	*	*
7 Central Kootenay	5	6	1.03	1.20	*	*
8 Central Okanagan	6	7	0.61	0.67	*	*
9 Columbia-Shuswap	3	4	0.76	1.00	*	*
10 Comox-Strathcona	6	7	0.79	0.87	*	*
11 Cowichan Valley	2	3	0.36	0.53	*	*
12 Dewdney-Alouette	4	9	0.49	0.99	*	*
13 East Kootenay	4	5	0.82	1.05	*	*
14 Fraser-Cheam	5	6	0.79	0.90	*	*
15 Fraser-Fort George	7	8	0.81	0.92	*	*
17 Kitimat-Stikine	4	4	1.02	0.99	*	*
18 Kootenay Boundary	3	2	1.01	0.67	*	*
19 Mount Waddington	1	1	0.70	0.71	*	*
20 Nanaimo	5	6	0.57	0.64	*	*
21 North Okanagan	4	4	0.71	0.70	*	*
22 Okanagan-Similkameen	3	4	0.48	0.63	*	*
23 Peace River	6	6	1.22	1.23	*	*
24 Powell River	1	1	0.55	0.54	*	*
25 Skeena-Queen Charlotte	3	3	1.31	1.30	*	*
26 Squamish-Lillooet	2	1	0.93	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	3	3	1.68	1.62	*	*
29 Thompson-Nicola	8	7	0.82	0.70	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>127</b>	<b>135</b>	<b>0.74</b>	<b>0.74</b>	<b>2.98</b>	<b>0.24</b>
3 Capital	30	33	1.06	1.11	4.68	2.21
16 Greater Vancouver	97	102	0.67	0.67	2.44	-0.34
<b>TOTAL</b>	<b>222</b>	<b>244</b>	<b>0.73</b>	<b>0.76</b>	<b>4.64</b>	<b>2.26</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>A twenty month rate of change has been adjusted to an annual figure.

<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.

<sup>4</sup>Rate of change (in percent) in the number.

<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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The University of British Columbia





#### **IV. LABORATORY AND THERAPEUTIC TECHNOLOGICAL SERVICES**



## CARDIOLOGY TECHNOLOGISTS

## CARDIOLOGY TECHNOLOGISTS

**Definition:** Cardiology technologists are

"trained personnel who operate equipment to record cardiac activity to aid in the diagnosis and treatment of heart disease."

Personnel who perform these tests have "significant responsibility for independent judgement, and clinical interpretive knowledge while maintaining current technical expertise so that high quality records are produced. Some areas requiring this technical expertise are cardiography, ambulatory monitoring, exercise stress testing, pacemaker analysis and/or programming, echocardiography, cardiac doppler, peripheral doppler and cardiac catheterization.

High quality interpersonal skills are essential to convey appropriate and accurate information to medical staff and patients."<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the Cardiology Technologists Association of British Columbia is voluntary. However, registered members have exclusive use of the titles: *Registered Cardiology Technologist*, *Registered Cardiology Technician*, and *RCT*.

**Date of Record:** December 1991.

**Source of Data:** The Cardiology Technologists Association of British Columbia (CTABC).

### Preparation and Updating:

The table, derived solely from the membership list provided by the CTABC, includes members who reported a British Columbia address at the date of record. Because of the voluntary nature of membership, comparison with 1989 figures is of limited value and has not been presented.

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<sup>1</sup>Cardiology Technologists Association of B.C.

**Definition of Terms:**

Membership status of cardiology technologists in active practice is reported in Table 1, based on the following categories: <sup>2</sup>

1. *Registered members:*

are persons engaged in the field of Cardiology who have completed two years of training in the field and one year with the Canadian Society of Cardiology Technologists Inc. (CSCT Inc.) study course of theory and technique, and who have passed examinations set by the CSCT Inc.

2. *Advanced Registered members:*

are persons engaged in the field of Cardiology who have been registered members for one full year, and who have passed the Advanced examinations set by the CSCT Inc.

3. *Associate members:*

are persons engaged in the field of Cardiology who have not undertaken and passed the examinations set by the CSCT Inc.

---

<sup>2</sup>Adapted from information received from the Cardiology Technologists Association of British Columbia.

**Cardiology Technologists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=337**

100

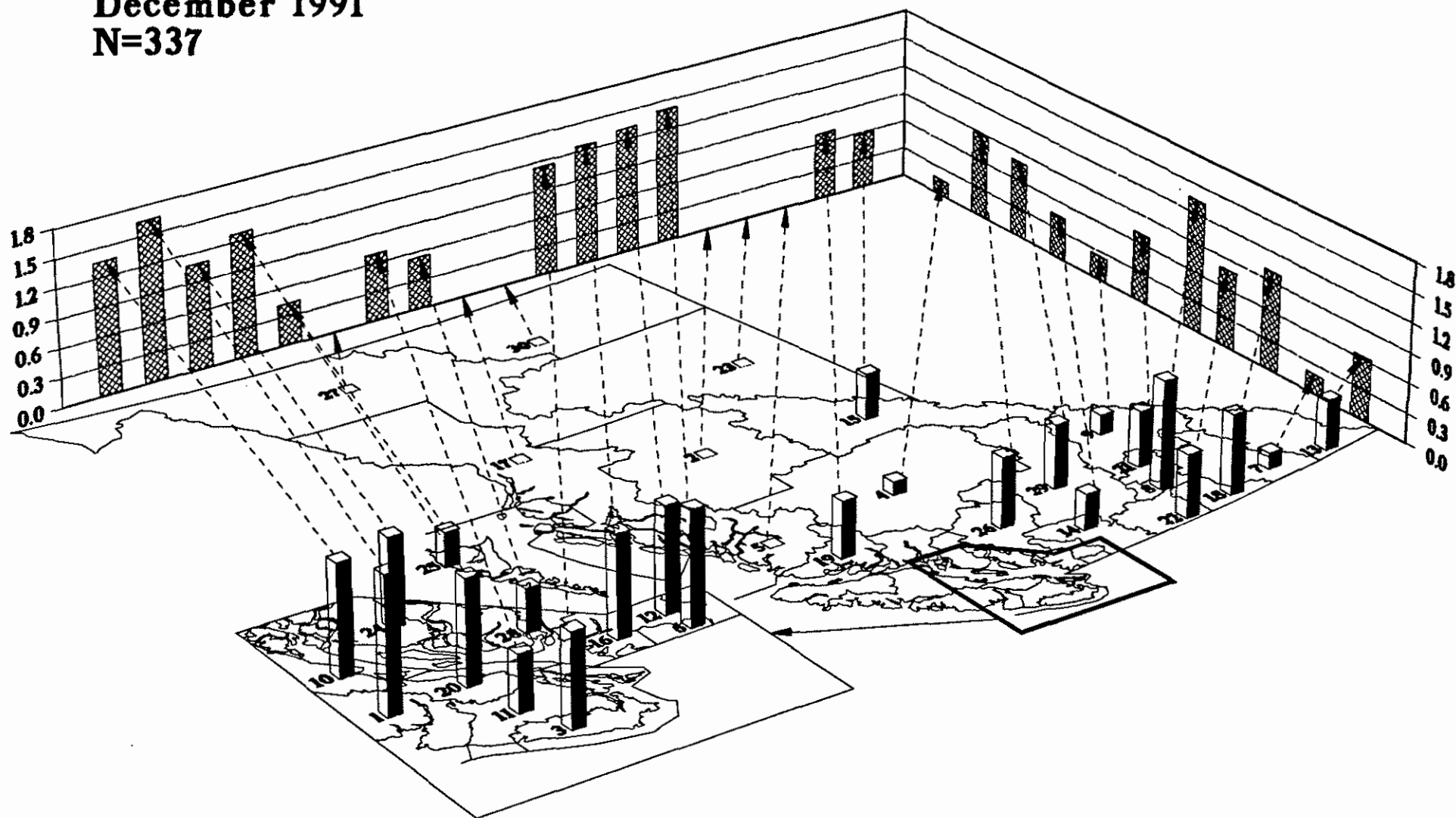


Table 1

Cardiology Technologists<sup>1</sup> in British Columbia

by Regional Hospital District by Membership Status

December 1991

Regional Hospital District	Number				Number per 10,000 Population			
	Registered	Advanced Registered	Associate	Total	Registered	Advanced Registered	Associate	Total
<b>Non-Metropolitan - Subtotal</b>	<b>47</b>	<b>30</b>	<b>34</b>	<b>111</b>	<b>0.34</b>	<b>0.22</b>	<b>0.25</b>	<b>0.81</b>
1 Alberni-Clayoquot	3	0	2	5	0.99	0.00	0.66	1.65
2 Bulkley-Nechako	0	0	0	0	0.00	0.00	0.00	0.00
4 Cariboo	0	0	1	1	0.00	0.00	0.17	0.17
5 Central Coast	0	0	0	0	0.00	0.00	0.00	0.00
6 Central Fraser Valley	1	4	7	12	0.12	0.47	0.82	1.41
7 Central Kootenay	1	0	0	1	0.20	0.00	0.00	0.20
8 Central Okanagan	3	7	4	14	0.29	0.67	0.38	1.34
9 Columbia-Shuswap	1	0	0	1	0.25	0.00	0.00	0.25
10 Comox-Strathcona	9	1	1	11	1.12	0.12	0.12	1.36
11 Cowichan Valley	1	1	2	4	0.18	0.18	0.35	0.70
12 Dewdney-Alouette	4	7	1	12	0.44	0.77	0.11	1.32
13 East Kootenay	1	0	2	3	0.21	0.00	0.42	0.63
14 Fraser-Cheam	2	0	1	3	0.30	0.00	0.15	0.45
15 Fraser-Fort George	2	1	2	5	0.23	0.12	0.23	0.58
17 Kitimat-Stikine	0	0	0	0	0.00	0.00	0.00	0.00
18 Kootenay Boundary	2	0	1	3	0.67	0.00	0.33	1.00
19 Mount Waddington	1	0	0	1	0.71	0.00	0.00	0.71
20 Nanaimo	6	3	3	12	0.64	0.32	0.32	1.28
21 North Okanagan	1	0	3	4	0.18	0.00	0.53	0.70
22 Okanagan-Similkameen	3	1	1	5	0.47	0.16	0.16	0.79
23 Peace River	0	0	0	0	0.00	0.00	0.00	0.00
24 Powell River	2	0	0	2	1.09	0.00	0.00	1.09
25 Skeena-Queen Charlotte	0	1	0	1	0.00	0.43	0.00	0.43
26 Squamish-Lillooet	1	1	0	2	0.44	0.44	0.00	0.88
27 Stikine	0	0	0	0	0.00	0.00	0.00	0.00
28 Sunshine Coast	0	0	1	1	0.00	0.00	0.54	0.54
29 Thompson-Nicola	3	3	2	8	0.30	0.30	0.20	0.80
30 Fort Nelson/Liard	0	0	0	0	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>113</b>	<b>71</b>	<b>42</b>	<b>226</b>	<b>0.62</b>	<b>0.39</b>	<b>0.23</b>	<b>1.24</b>
3 Capital	18	9	7	34	0.61	0.30	0.24	1.14
16 Greater Vancouver	95	62	35	192	0.62	0.41	0.23	1.26
<b>TOTAL</b>	<b>160</b>	<b>101</b>	<b>76</b>	<b>337</b>	<b>0.50</b>	<b>0.32</b>	<b>0.24</b>	<b>1.05</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia





## CARDIOVASCULAR PERFUSIONISTS

## CARDIOVASCULAR PERFUSIONISTS

**Definition:** A cardiovascular perfusionist

is a member of a multi-disciplinary health care team that monitors and maintains extra-corporeal circulation during any medical situation where it is necessary to support or temporarily replace the patient's circulatory and/or respiratory function. The perfusionist is responsible for the proper maintenance of the patient's cardiopulmonary function during surgery.

The Perfusionist is also responsible for operating specialized machines and extra-corporeal circuits for support procedures done to improve the blood circulation of a patient. The Perfusionist is trained/educated in the administration of prescription blood products, of anesthetic agents or drugs through extra-corporeal circulation.<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory licensure and/or registration do not exist. Voluntary certification by the Canadian Society of Clinical Perfusion or by the American Board of Cardiovascular Perfusion is common.

**Date of Record:** December 1991.

**Source of Data:** Cardiovascular Perfusion Technology program, University College of the Cariboo, Kamloops, B.C.

**Preparation and Updating:**

The tables have been prepared from information provided by the Cardiovascular Perfusion Technology program at the University College of the Cariboo, Kamloops, British Columbia and include all persons known to be employed as Cardiovascular Perfusionists in British Columbia at the date of record.

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<sup>1</sup>Adapted from information provided by the Cardiovascular Perfusion Technology program, University College of the Cariboo, Kamloops, B.C., November 1991.

Table 1

Cardiovascular Perfusionists<sup>1</sup> in British Columbia

by Regional Hospital District

December 1991

<u>Regional Hospital District</u>	<u>1991</u>
Metropolitan - Subtotal	22
3 Capital	5
16 Greater Vancouver	17
<b>TOTAL</b>	<b>22</b>

<sup>1</sup>Definitions are as in attached text.

Prepared by:

Health Human Resources Unit  
The University of British Columbia



CLINICAL ENGINEERS AND BIOMEDICAL  
ENGINEERING TECHNOLOGISTS  
AND TECHNICIANS



## CLINICAL ENGINEERS AND BIOMEDICAL ENGINEERING TECHNOLOGISTS AND TECHNICIANS

**Definition:** Clinical Engineers

apply physiological theory and engineering theory, methodologies, technology, instrumentation and materials in:

- (a) professional engineering practice in the clinical environment. Typical responsibilities would include incident investigation, investigation of equipment hazards, equipment evaluation, education on equipment safety and operation, design of parts or systems required to meet clinical needs, and administration of repairs, preventive maintenance and performance assurance of clinical equipment;
- (b) teaching clinical engineering practice or biomedical engineering technology at a university or college. Typical responsibilities would include teaching and supervising students engaged in clinical research projects;
- (c) clinical research and development. Typically these engineers would work full time on clinical research projects involving either work on clinical equipment pertaining to a clinical situation, or direct interaction with patients and physicians to obtain data or design apparatus.

Training for clinical engineering consists of an engineering degree (usually Electrical, Mechanical, or Biomedical Engineering), commonly supplemented with graduate work in biomedical or clinical engineering.<sup>1</sup>

**Governing Statute:** Engineer's Act, Revised Statutes of British Columbia, 1979, Chapter 109, administered by the Ministry of Advanced Education, Training and Technology.

**Governing Body:** Association of Professional Engineers of the Province of British Columbia (APEPBC). In order to practise as a professional engineer in British Columbia, it is necessary to be registered by the APEPBC.

Biomedical engineers may also become members of the Canadian Medical and Biological Engineering Society (CMBES) and may be certified as Clinical Engineers by the CMBES.

---

<sup>1</sup>Information provided by the B.C. Chapter of the Canadian Medical and Biological Engineering Society.

**Definition:** Biomedical Engineering Technologists and Technicians

practice the application of detailed operational systems and methods in the biomedical electronics field. In particular, the field of practice of the technologist is the implementation and development of applied science techniques, while that of the technician is the operation of sophisticated scientific instruments and equipment. The technologist may also take part in systems development, layout and co-ordination of activities and resources.<sup>2</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory licensure/registration do not exist. Individuals working as biomedical engineering technologists/technicians may be registered with the Applied Science Technologists and Technicians of British Columbia (ASTTBC). Members of the ASTTBC have exclusive use of the titles: *Applied Science Technologist*, *Certified Technician*, *C Tech*. It is also possible to be certified by the Canadian Medical and Biological Engineering Society (CMBES) as a Canadian Biological Engineering Technologist (CBET).

**Date of Record:** February 1992.

**Source of Data:** Health Human Resources Unit (HHRU) surveys.

**Preparation and Updating:**

The figures in Table 1 are derived from an HHRU survey of potential employers of clinical and biological engineering personnel and from an informal list of these personnel provided by the British Columbia Chapter of the Canadian Medical and Biological Engineering Society. Data for all other tables are based on responses to a mail survey of this group conducted by the HHRU.

**Interpretation of the Data:**

The data presented are based on the results of the HHRU surveys and include only those individuals directly engaged in clinical activities through direct employment at hospitals, universities or colleges, or private firms which provide equipment service.

The numbers presented here should be considered as an approximate indicator of the number of the personnel to be found in this field. Because of different methods of data collection, comparison with 1989 figures is of limited value and has not been presented.

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<sup>2</sup>Information provided by the Applied Science Technologists and Technicians of British Columbia.



**Definition of Terms:****1. Age and Sex**

Age and sex information on clinical engineers and biomedical engineering technologists and technicians who responded to the HHRU survey is shown in Table 2. No respondents indicated that they were over 65 years of age. Age information is grouped according to standard age categories developed and used by Statistics Canada.

**2. Employment Status**

Employment status of clinical and biomedical engineering personnel who responded to the HHRU survey is provided in Table 3. The categories used to display this information are as follows:

- (a) Full-time clinical or biomedical engineering position;
- (b) Part-time clinical or biomedical engineering position;
- (c) Employed on a contract basis;
- (d) Employed in other field.

**3. Principal Employing Institution**

Principal employing institution of clinical engineers and biomedical engineering technologists, based on their responses to the HHRU mail survey, is provided in Table 4. The categories used to display this information are as follows:

- (a) Acute Care/General Hospital;
- (b) Equipment Manufacturer/Private Industry;
- (c) University/Technical Institute/Research Centre;
- (d) Other.

**Clinical Engineers and Biomedical Engineering  
Technologists and Technicians  
per 10,000 Population  
by Regional Hospital District  
N=285**

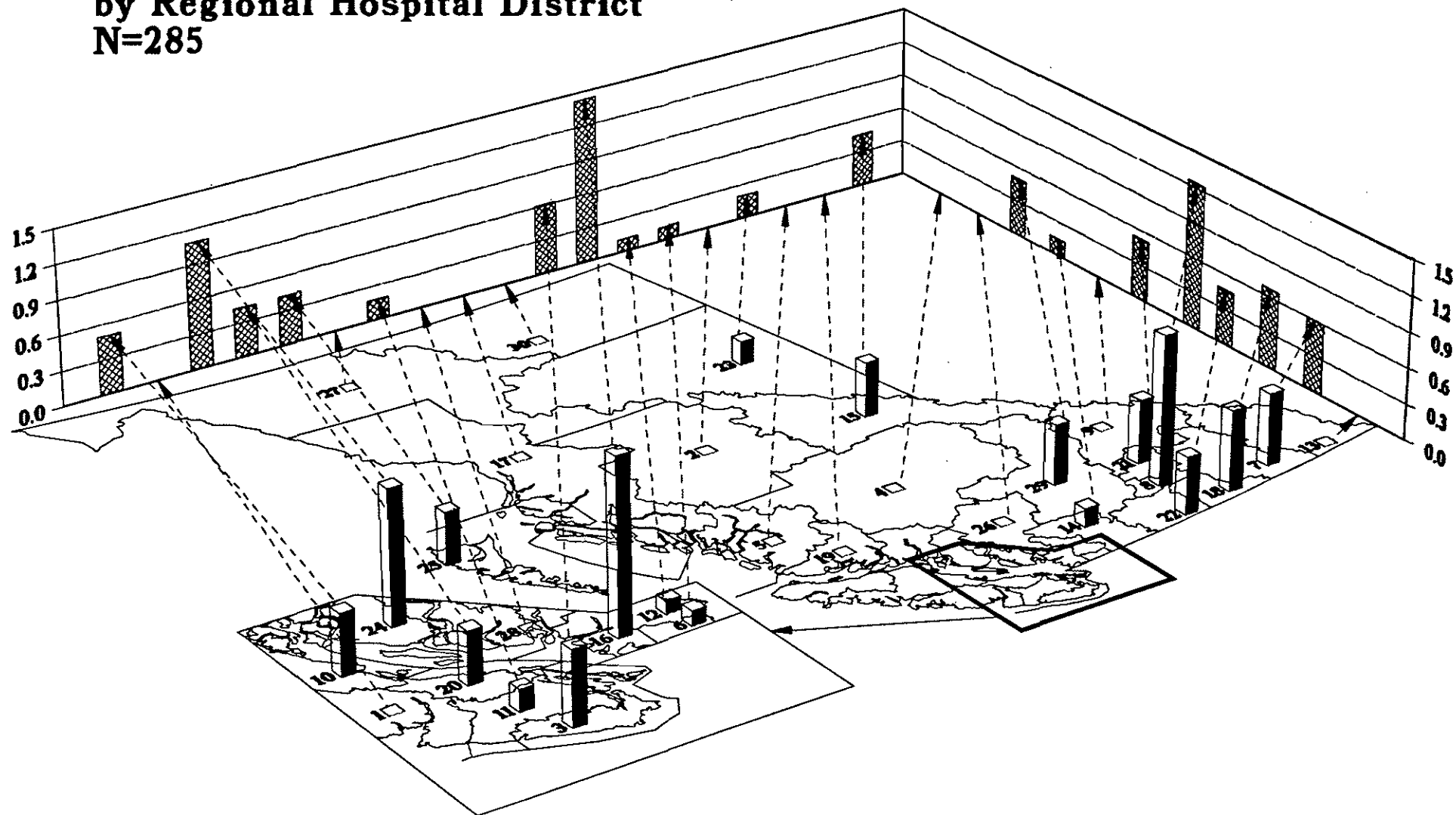


Table 1

Clinical Engineers and Biomedical Engineering Technologists and Technicians<sup>1</sup> in British Columbia

by Regional Hospital District

February 1992

<u>Regional Hospital District</u>	<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>	<b>49</b>	<b>0.36</b>
1 Alberni-Clayoquot	0	0.00
2 Bulkley-Nechako	0	0.00
4 Cariboo	0	0.00
5 Central Coast	0	0.00
6 Central Fraser Valley	1	0.12
7 Central Kootenay	3	0.60
8 Central Okanagan	13	1.24
9 Columbia-Shuswap	0	0.00
10 Comox-Strathcona	4	0.50
11 Cowichan Valley	1	0.18
12 Dewdney-Alouette	1	0.11
13 East Kootenay	0	0.00
14 Fraser-Cheam	1	0.15
15 Fraser-Fort George	4	0.46
17 Kitimat-Stikine	0	0.00
18 Kootenay Boundary	2	0.67
19 Mount Waddington	0	0.00
20 Nanaimo	4	0.43
21 North Okanagan	3	0.53
22 Okanagan-Similkameen	3	0.47
23 Peace River	1	0.20
24 Powell River	2	1.09
25 Skeena-Queen Charlotte	1	0.43
26 Squamish-Lillooet	0	0.00
27 Stikine	0	0.00
28 Sunshine Coast	0	0.00
29 Thompson-Nicola	5	0.50
30 Fort Nelson/Liard	0	0.00
<b>Metropolitan - Subtotal</b>	<b>236</b>	<b>1.29</b>
3 Capital	18	0.61
16 Greater Vancouver	218	1.43
<b>TOTAL</b>	<b>285</b>	<b>0.89</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Clinical Engineers and Biomedical Engineering Technologists and Technicians<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

February 1992

Regional Hospital District	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		Subtotal		Unkn <sup>2</sup>	Total
	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>32</b>	<b>1</b>	<b>8</b>	<b>41</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Cariboo	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	1	0	0	0	0	0	1	0	0	1
7 Central Kootenay	0	0	0	0	0	0	2	0	0	0	2	0	0	2
8 Central Okanagan	1	0	5	0	2	0	0	0	0	0	8	0	2	10
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Comox-Strathcona	0	0	1	0	1	0	1	0	0	0	3	0	1	4
11 Cowichan Valley	0	0	1	0	0	0	0	0	0	0	1	0	0	1
12 Dewdney-Alouette	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13 East Kootenay	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Fraser-Fort George	0	0	1	0	0	0	2	0	1	0	4	0	0	4
17 Kitimat-Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	1	0	0	0	0	0	1	0	1	2
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	0	0	0	1	0	0	0	0	0	1	0	3	4
21 North Okanagan	0	0	0	0	2	0	0	0	1	0	3	0	0	3
22 Okanagan-Similkameen	0	0	1	0	0	0	0	0	1	0	2	0	0	2
23 Peace River	0	0	0	0	0	0	0	0	0	0	0	0	1	1
24 Powell River	0	0	1	0	0	0	0	0	0	0	1	0	0	1
25 Skeena-Queen Charlotte	0	1	0	0	0	0	0	0	0	0	0	1	0	1
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Thompson-Nicola	0	0	1	0	3	0	1	0	0	0	5	0	0	5
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>9</b>	<b>1</b>	<b>43</b>	<b>9</b>	<b>50</b>	<b>0</b>	<b>15</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>121</b>	<b>10</b>	<b>26</b>	<b>157</b>
3 Capital	0	0	4	0	5	0	3	0	1	0	13	0	1	14
16 Greater Vancouver	9	1	39	9	45	0	12	0	3	0	108	10	25	143
<b>TOTAL</b>	<b>10</b>	<b>2</b>	<b>54</b>	<b>9</b>	<b>61</b>	<b>0</b>	<b>21</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>153</b>	<b>11</b>	<b>34</b>	<b>198</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Unknown

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 3

Clinical Engineers and Biomedical Engineering Technologists and Technicians<sup>1</sup> in British Columbia

by Regional Hospital District by Employment Status

February 1992

Regional Hospital District	Full-Time	Part-Time	Employed on a Contract Basis	Employed in Other Field	Total
<b>Non-Metropolitan - Subtotal</b>	<b>36</b>	<b>3</b>	<b>2</b>	<b>0</b>	<b>41</b>
1 Alberni-Clayoquot	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0
4 Cariboo	0	0	0	0	0
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	1	0	0	0	1
7 Central Kootenay	0	1	1	0	2
8 Central Okanagan	8	2	0	0	10
9 Columbia-Shuswap	0	0	0	0	0
10 Comox-Strathcona	3	0	1	0	4
11 Cowichan Valley	1	0	0	0	1
12 Dewdney-Alouette	0	0	0	0	0
13 East Kootenay	0	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0
15 Fraser-Fort George	4	0	0	0	4
17 Kitimat-Stikine	0	0	0	0	0
18 Kootenay Boundary	2	0	0	0	2
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	4	0	0	0	4
21 North Okanagan	3	0	0	0	3
22 Okanagan-Similkameen	2	0	0	0	2
23 Peace River	1	0	0	0	1
24 Powell River	1	0	0	0	1
25 Skeena-Queen Charlotte	1	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	0
27 Stikine	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0
29 Thompson-Nicola	5	0	0	0	5
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>138</b>	<b>3</b>	<b>9</b>	<b>7</b>	<b>157</b>
3 Capital	14	0	0	0	14
16 Greater Vancouver	124	3	9	7	143
<b>TOTAL</b>	<b>174</b>	<b>6</b>	<b>11</b>	<b>7</b>	<b>198</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 4

Clinical Engineers and Biomedical Engineering Technologists and Technicians<sup>1</sup> in British Columbia

by Regional Hospital District by Principal Employing Institution

February 1992

Regional Hospital District	Acute Care/ General Hospital	Equipment Manufacturer/ Private Industry	University/ Technical Institute/ Research Centre	Other <sup>2</sup>	Unknown	Total
Non-Metropolitan - Subtotal	39	1	0	0	1	41
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0
4 Cariboo	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	1	0	0	0	0	1
7 Central Kootenay	1	0	0	0	1	2
8 Central Okanagan	10	0	0	0	0	10
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	4	0	0	0	0	4
11 Cowichan Valley	1	0	0	0	0	1
12 Dewdney-Alouette	0	0	0	0	0	0
13 East Kootenay	0	0	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0	0
15 Fraser-Fort George	4	0	0	0	0	4
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	2	0	0	0	0	2
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	3	1	0	0	0	4
21 North Okanagan	3	0	0	0	0	3
22 Okanagan-Similkameen	2	0	0	0	0	2
23 Peace River	1	0	0	0	0	1
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	1	0	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0
29 Thompson-Nicola	5	0	0	0	0	5
30 Fort Nelson/Liard	0	0	0	0	0	0
Metropolitan - Subtotal	77	50	4	8	18	157
3 Capital	9	4	0	0	1	14
16 Greater Vancouver	68	46	4	8	17	143
<b>TOTAL</b>	<b>116</b>	<b>51</b>	<b>4</b>	<b>8</b>	<b>19</b>	<b>198</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes two respondents employed in a Long Term Care Facility and one in a Rehabilitation Facility

Prepared by:

Health Human Resources Unit  
The University of British Columbia

## DIAGNOSTIC MEDICAL SONOGRAPHERS

## DIAGNOSTIC MEDICAL SONOGRAPHERS

**Definition:** A diagnostic medical sonographer

"utilizes high frequency mechanical vibrations (ultrasound) to produce diagnostic images of various anatomic structures. A Sonographer may be trained in one or more of the following specialties; Obstetrics/Gynaecology, Abdominal, Adult Echocardiography, Paediatric Echocardiography, Ophthalmology, Echoencephalography, Peripheral Vascular Doppler. The training period is usually one year with a previous para-medical degree as a prerequisite."<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the British Columbia Ultrasonographers' Society is voluntary.

**Date of Record:** December 1989 and December 1991.

**Source of Data:** Health Human Resources Unit surveys.

**Preparation and Updating:**

Table 1 includes diagnostic medical sonographers employed in British Columbia at the date of record as identified by institutions, physicians, and organizations licensed to provide ultrasound services in the province.

Data for the other tables have been derived from responses to a mail survey of ultrasound personnel that was conducted by the HHRU. Because of the nature of data collection for this group, comparison with 1989 figures would be of limited value and has not been presented.

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<sup>1</sup>British Columbia Ultrasonographers' Society.



**Definition of Terms:****1. Age and Sex**

Age and sex information on diagnostic medical sonographers who responded to the HHRU survey is shown in Table 2. Age information is grouped according to standard age categories developed and used by Statistics Canada.

**2. Employment Status**

Employment status of diagnostic medical sonographers who responded to the HHRU survey is provided in Table 3. The categories used for this information are as follows:

- (a) Full-time;
  - (i) One Position - employed for 30 hours per week or more in one position
  - (ii) More than One Position - employed for 30 hours per week or more in more than one position
- (b) Part-time;
  - (i) Employed for fewer than 30 hours per week.

**3. Principal Employing Institution**

Principal employing institution of diagnostic medical sonographers is provided in Table 4 based on responses to the HHRU mail survey. The categories used for this information are as follows:

- (a) Acute Care/General Hospital;
- (b) Private Clinic/Laboratory;
- (c) University/Technical Institute/Research Centre;
- (d) Other.

**Diagnostic Medical Sonographers  
per 10,000 Population  
by Regional Hospital District  
February 1992  
N=245**

120

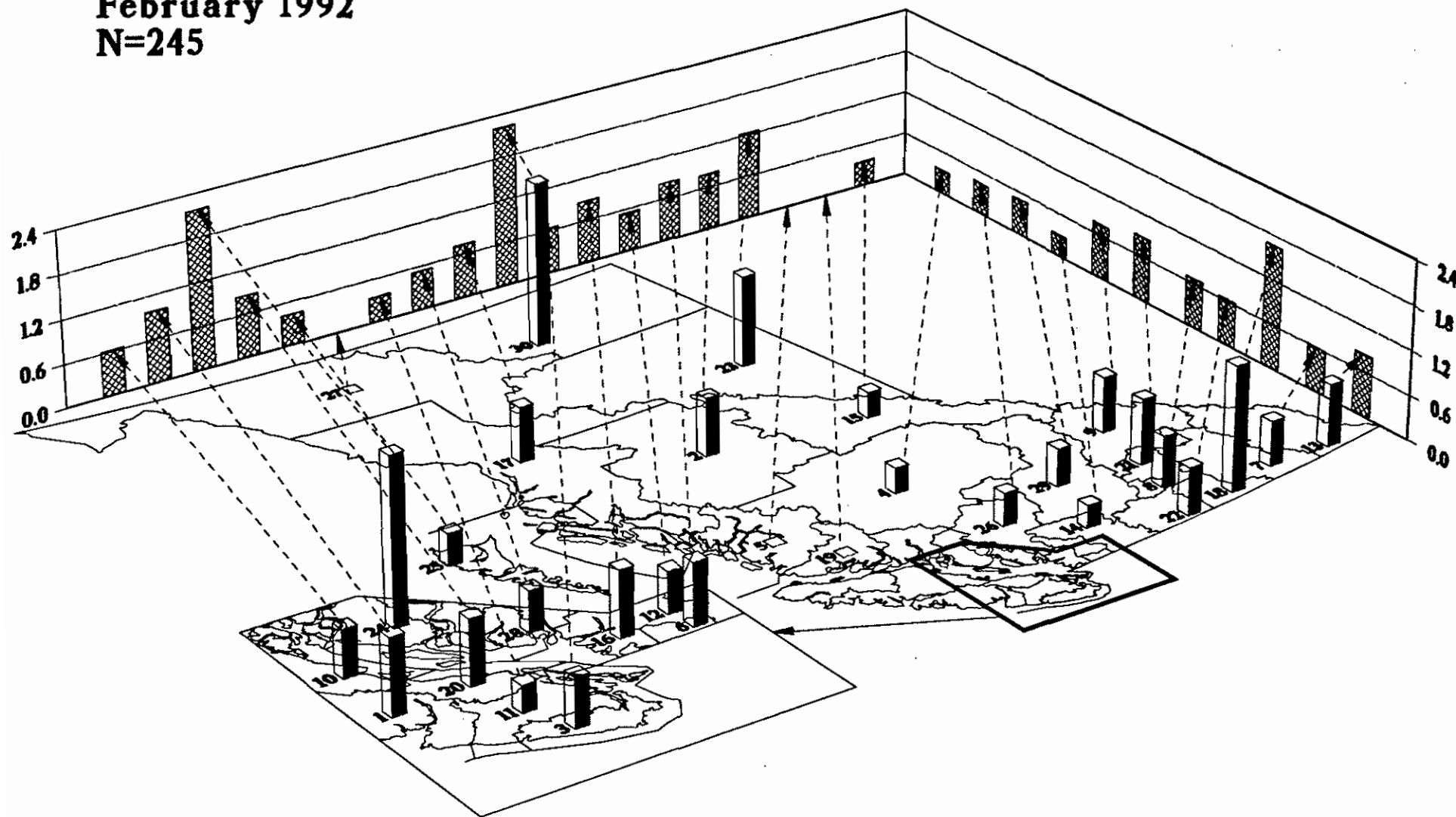


Table 1

Diagnostic Medical Sonographers<sup>1</sup> in British Columbia

by Regional Hospital District

February 1992

<u>Regional Hospital District</u>	<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>	<b>93</b>	<b>0.68</b>
1 Alberni-Clayoquot	3	0.99
2 Bulkley-Nechako	3	0.79
4 Cariboo	2	0.34
5 Central Coast	0	0.00
6 Central Fraser Valley	7	0.82
7 Central Kootenay	3	0.60
8 Central Okanagan	7	0.67
9 Columbia-Shuswap	3	0.75
10 Comox-Strathcona	5	0.62
11 Cowichan Valley	2	0.35
12 Dewdney-Alouette	5	0.55
13 East Kootenay	4	0.84
14 Fraser-Cheam	2	0.30
15 Fraser-Fort George	3	0.35
17 Kitimat-Stikine	3	0.74
18 Kootenay Boundary	5	1.67
19 Mount Waddington	0	0.00
20 Nanaimo	8	0.85
21 North Okanagan	5	0.88
22 Okanagan-Similkameen	4	0.63
23 Peace River	6	1.23
24 Powell River	4	2.18
25 Skeena-Queen Charlotte	1	0.43
26 Squamish-Lillooet	1	0.44
27 Stikine	0	0.00
28 Sunshine Coast	1	0.54
29 Thompson-Nicola	5	0.50
30 Fort Nelson/Liard	1	2.22
<b>Metropolitan - Subtotal</b>	<b>152</b>	<b>0.83</b>
3 Capital	19	0.64
16 Greater Vancouver	133	0.87
<b>TOTAL</b>	<b>245</b>	<b>0.76</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Diagnostic Medical Sonographers (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

February 1992

Regional Hospital District	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		65+		Subtotal		Unkn <sup>2</sup>	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Non-Metropolitan - Subtotal	0	0	4	11	3	15	0	7	0	1	0	1	7	35	34	76
1 Alberni-Clayoquot	0	0	0	1	0	1	0	0	0	0	0	0	0	2	1	3
2 Bulkley-Nechako	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
4 Cariboo	0	0	0	1	0	1	0	0	0	0	0	0	0	2	0	2
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	0	0	1	0	0	0	0	0	1	5	6
7 Central Kootenay	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	2
8 Central Okanagan	0	0	1	1	0	0	0	0	0	0	0	1	1	2	4	7
9 Columbia-Shuswap	0	0	0	0	1	0	0	1	0	0	0	0	1	1	1	3
10 Comox-Strathcona	0	0	1	0	0	2	0	0	0	0	0	0	1	2	2	5
11 Cowichan Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12 Dewdney-Alouette	0	0	0	1	0	0	0	0	0	0	0	0	0	1	4	5
13 East Kootenay	0	0	0	0	0	2	0	1	0	0	0	0	0	3	1	4
14 Fraser-Cheam	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	2
15 Fraser-Fort George	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	2
17 Kitimat-Stikine	0	0	1	0	1	0	0	1	0	0	0	0	2	1	0	3
18 Kootenay Boundary	0	0	0	0	1	2	0	0	0	0	0	0	1	2	2	5
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
21 North Okanagan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
22 Okanagan-Similkameen	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1	2
23 Peace River	0	0	0	4	0	1	0	0	0	0	0	0	0	5	1	6
24 Powell River	0	0	0	0	0	1	0	1	0	0	0	0	0	2	1	3
25 Skeena-Queen Charlotte	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	1
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Thompson-Nicola	0	0	0	2	0	1	0	0	0	1	0	0	0	4	1	5
30 Fort Nelson/Liard	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1
Metropolitan - Subtotal	0	1	3	27	7	34	1	3	0	1	0	0	11	66	44	121
3 Capital	0	0	0	2	2	6	0	0	0	0	0	0	2	8	4	14
16 Greater Vancouver	0	1	3	25	5	28	1	3	0	1	0	0	9	58	40	107
<b>TOTAL</b>	<b>0</b>	<b>1</b>	<b>7</b>	<b>38</b>	<b>10</b>	<b>49</b>	<b>1</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>18</b>	<b>101</b>	<b>78</b>	<b>197</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Unknown.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 3

Diagnostic Medical Sonographers (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Employment Status

February 1992

Regional Hospital District	Full-time <sup>2</sup>		Part-time <sup>3</sup>	Total
	One Position	More than One Position		
<b>Non-Metropolitan - Subtotal</b>	<b>45</b>	<b>1</b>	<b>30</b>	<b>76</b>
1 Alberni-Clayoquot	1	0	2	3
2 Bulkley-Nechako	0	0	3	3
4 Cariboo	2	0	0	2
5 Central Coast	0	0	0	0
6 Central Fraser Valley	6	0	0	6
7 Central Kootenay	1	0	1	2
8 Central Okanagan	3	0	4	7
9 Columbia-Shuswap	1	0	2	3
10 Comox-Strathcona	4	0	1	5
11 Cowichan Valley	1	0	0	1
12 Dewdney-Alouette	3	1	1	5
13 East Kootenay	3	0	1	4
14 Fraser-Cheam	2	0	0	2
15 Fraser-Fort George	2	0	0	2
17 Kitimat-Stikine	2	0	1	3
18 Kootenay Boundary	1	0	4	5
19 Mount Waddington	0	0	0	0
20 Nanaimo	2	0	1	3
21 North Okanagan	0	0	1	1
22 Okanagan-Similkameen	1	0	1	2
23 Peace River	3	0	3	6
24 Powell River	1	0	2	3
25 Skeena-Queen Charlotte	1	0	0	1
26 Squamish-Lillooet	1	0	0	1
27 Stikine	0	0	0	0
28 Sunshine Coast	0	0	0	0
29 Thompson-Nicola	4	0	1	5
30 Fort Nelson/Liard	0	0	1	1
<b>Metropolitan - Subtotal</b>	<b>76</b>	<b>10</b>	<b>35</b>	<b>121</b>
3 Capital	11	0	3	14
16 Greater Vancouver	65	10	32	107
<b>TOTAL</b>	<b>121</b>	<b>11</b>	<b>65</b>	<b>197</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>30 hours per week or more.<sup>3</sup>Fewer than 30 hours per week.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 4

Diagnostic Medical Sonographers (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Type of Employer

February 1992

Regional Hospital District	Acute Care/ General Hospital	Private Clinic/ Laboratory	University/ Technical Institute/ Research Centre	Other	Unknown	Total
Non-Metropolitan - Subtotal	64	7	0	0	5	76
1 Alberni-Clayoquot	2	0	0	0	1	3
2 Bulkley-Nechako	3	0	0	0	0	3
4 Cariboo	2	0	0	0	0	2
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	4	2	0	0	0	6
7 Central Kootenay	2	0	0	0	0	2
8 Central Okanagan	4	3	0	0	0	7
9 Columbia-Shuswap	3	0	0	0	0	3
10 Comox-Strathcona	4	0	0	0	1	5
11 Cowichan Valley	1	0	0	0	0	1
12 Dewdney-Alouette	5	0	0	0	0	5
13 East Kootenay	4	0	0	0	0	4
14 Fraser-Cheam	2	0	0	0	0	2
15 Fraser-Fort George	2	0	0	0	0	2
17 Kitimat-Stikine	3	0	0	0	0	3
18 Kootenay Boundary	5	0	0	0	0	5
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	1	2	0	0	0	3
21 North Okanagan	0	0	0	0	1	1
22 Okanagan-Similkameen	2	0	0	0	0	2
23 Peace River	6	0	0	0	0	6
24 Powell River	2	0	0	0	1	3
25 Skeena-Queen Charlotte	1	0	0	0	0	1
26 Squamish-Lillooet	1	0	0	0	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0
29 Thompson-Nicola	4	0	0	0	1	5
30 Fort Nelson/Liard	1	0	0	0	0	1
Metropolitan - Subtotal	89	18	8	4	2	121
3 Capital	14	0	0	0	0	14
16 Greater Vancouver	75	18	8	4	2	107
<b>TOTAL</b>	<b>153</b>	<b>25</b>	<b>8</b>	<b>4</b>	<b>7</b>	<b>197</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

## MEDICAL LABORATORY TECHNOLOGISTS

## MEDICAL LABORATORY TECHNOLOGISTS

**Definition:** A medical laboratory technologist

"performs medical laboratory tests, procedures, experiments, and analyses for diagnosis, treatment and prevention of disease.

Conducts chemical analyses of blood, urine, cerebro-spinal and other body fluids to ascertain normal and abnormal constituents. Studies blood cells, their numbers, morphological characteristics and coagulation factors related to various physiological and pathological conditions. Prepares tissue sections for microscopic examination using fixation, imbedding, cutting and staining techniques to demonstrate special cellular tissue elements or other characteristics. Studies micro-organisms which cause disease, and their effect upon the human body, using a variety of microscopic and macroscopic techniques. Performs blood group, type and compatibility tests for transfusion purposes. Investigates responses of body to foreign cells or agents."<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the Canadian Society of Laboratory Technologists is voluntary. The Society administers the certification examination program.

**Date of Record:** September 1989 and October 1991.

**Source of Data:** Canadian Society of Laboratory Technologists (CSLT).

**Preparation and Updating:**

The tables are derived solely from the *Official Registry of Medical Laboratory Technologists (Canada)* supplied by the CSLT.

Members are classified by the CSLT according to the training and practice. Where members have more than one certificate, the most recently obtained is used.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3156-122, p. 62, Ottawa: Employment and Immigration Canada.



**Definition of Terms:****1. Membership Status**

Tables 1, 2 and 3 show membership status for members who reported a British Columbia address at the date of record. The following categories are used for membership status:

- (a) Certified (Active);
- (b) Certified (Inactive);
- (c) Subscriber (Non-Certified) - replaces the equivalent Non-Certified Associate used in ROLLCALL 89;
- (d) Trainee.

**2. Level of Training**

Tables 4, 5 and 6 report level of training for Certified (Active) members who were British Columbia residents at the date of record. The categories used for level of training are as follows:

- (a) Registered Technologist (RT)
  - General or Subject Certification;
- (b) Advanced Registered Technologist (ART)
  - Advanced Certification;
- (c) Fellowship of the CSLT (FCSLT). Formerly Licentiate of the CSLT (LCSLT)
  - Fellowship Certification.

**Certified (Active) Medical Laboratory Technologists (Members)  
per 10,000 Population  
by Regional Hospital District  
October 1991  
N=2843**

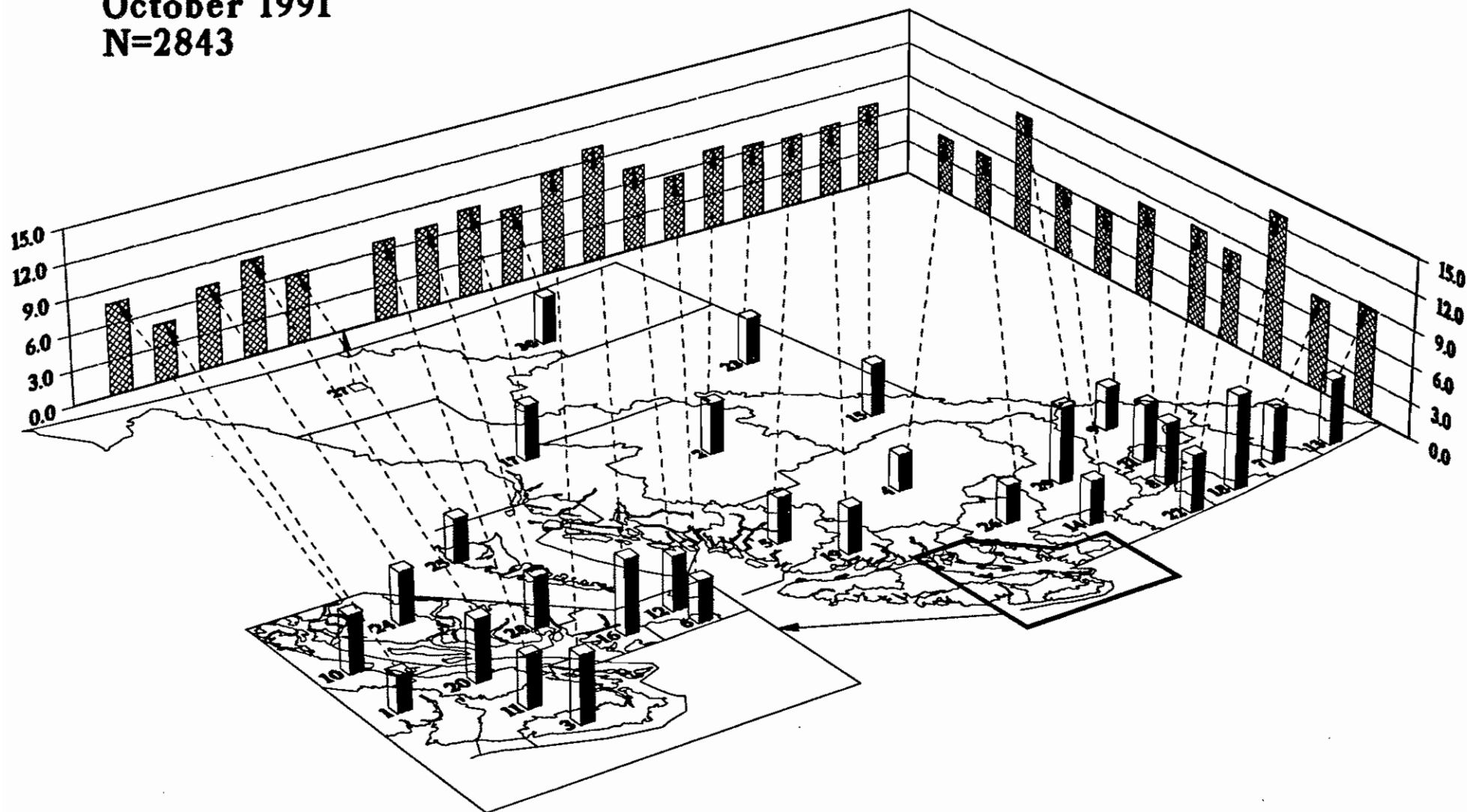


Table 1

Medical Laboratory Technologists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Membership Status

September 1989 and October 1991

Regional Hospital District	Certified (Active)		Certified (Inactive)		Subscriber <sup>2</sup> (Non-Certified)		Trainee		Total	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>933</b>	<b>1,034</b>	<b>133</b>	<b>121</b>	<b>1</b>	<b>10</b>	<b>24</b>	<b>23</b>	<b>1,091</b>	<b>1,188</b>
1 Alberni-Clayoquot	16	15	1	3	0	0	0	1	17	19
2 Bulkley-Nechako	24	27	3	2	1	0	0	1	28	30
4 Cariboo	27	30	6	6	0	0	0	0	33	36
5 Central Coast	2	2	0	0	0	0	0	0	2	2
6 Central Fraser Valley	44	48	8	4	0	0	1	0	53	52
7 Central Kootenay	29	39	3	3	0	0	0	0	32	42
8 Central Okanagan	72	88	8	9	0	0	0	0	80	97
9 Columbia-Shuswap	22	24	7	9	0	0	2	0	31	33
10 Comox-Strathcona	53	63	11	6	0	1	0	0	64	70
11 Cowichan Valley	33	39	5	6	0	0	0	0	38	45
12 Dewdney-Alouette	65	67	3	4	0	0	1	0	69	71
13 East Kootenay	39	43	10	4	0	0	0	0	49	47
14 Fraser-Cheam	36	40	5	4	0	0	1	2	42	46
15 Fraser-Fort George	57	63	5	7	0	1	0	1	62	72
17 Kitimat-Stikine	29	31	5	4	0	2	0	0	34	37
18 Kootenay Boundary	41	39	5	5	0	3	1	2	47	49
19 Mount Waddington	8	9	4	0	0	0	0	0	12	9
20 Nanaimo	71	78	12	13	0	2	1	1	84	94
21 North Okanagan	44	46	6	5	0	1	0	0	50	52
22 Okanagan-Similkameen	47	50	5	4	0	0	0	1	52	55
23 Peace River	30	32	3	4	0	0	0	0	33	36
24 Powell River	11	13	3	1	0	0	0	0	14	14
25 Skeena-Queen Charlotte	10	14	2	0	0	0	0	0	12	14
26 Squamish-Lillooet	13	12	0	3	0	0	1	0	14	15
27 Stikine	0	0	0	1	0	0	0	0	0	1
28 Sunshine Coast	11	13	1	1	0	0	0	0	12	14
29 Thompson-Nicola	96	106	12	13	0	0	16	14	124	133
30 Fort Nelson/Liard	3	3	0	0	0	0	0	0	3	3
<b>Metropolitan - Subtotal</b>	<b>1,687</b>	<b>1,809</b>	<b>169</b>	<b>160</b>	<b>10</b>	<b>53</b>	<b>59</b>	<b>73</b>	<b>1,925</b>	<b>2,095</b>
3 Capital	259	267	34	31	0	5	3	4	296	307
16 Greater Vancouver	1,428	1,542	135	129	10	48	56	69	1,629	1,788
<b>TOTAL</b>	<b>2,620</b>	<b>2,843</b>	<b>302</b>	<b>281</b>	<b>11</b>	<b>63</b>	<b>83</b>	<b>96</b>	<b>3,016</b>	<b>3,283</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Subscriber (Non-Certified) replaces the equivalent Associate (Non-Certified) category used in ROLLCALL 89.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 2

**Medical Laboratory Technologists (Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Membership Status**  
**September 1989<sup>2</sup> and October 1991**

Regional Hospital District	Certified (Active)		Certified (Inactive)		Subscriber (Non-Certified)		Trainee		Total	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>7.03</b>	<b>7.51</b>	<b>1.00</b>	<b>0.88</b>	<b>0.01</b>	<b>0.07</b>	<b>0.18</b>	<b>0.17</b>	<b>8.23</b>	<b>8.63</b>
1 Alberni-Clayoquot	5.34	4.95	0.33	0.99	0.00	0.00	0.00	0.33	5.68	6.27
2 Bulkley-Nechako	6.48	7.12	0.81	0.53	0.27	0.00	0.00	0.26	7.56	7.91
4 Cariboo	4.63	5.05	1.03	1.01	0.00	0.00	0.00	0.00	5.66	6.06
5 Central Coast	6.27	6.29	0.00	0.00	0.00	0.00	0.00	0.00	6.27	6.29
6 Central Fraser Valley	5.75	5.64	1.05	0.47	0.00	0.00	0.13	0.00	6.92	6.11
7 Central Kootenay	5.98	7.77	0.62	0.60	0.00	0.00	0.00	0.00	6.60	8.37
8 Central Okanagan	7.36	8.43	0.82	0.86	0.00	0.00	0.00	0.00	8.18	9.29
9 Columbia-Shuswap	5.55	6.01	1.77	2.25	0.00	0.00	0.50	0.00	7.82	8.26
10 Comox-Strathcona	6.94	7.81	1.44	0.74	0.00	0.12	0.00	0.00	8.38	8.68
11 Cowichan Valley	5.98	6.87	0.91	1.06	0.00	0.00	0.00	0.00	6.89	7.93
12 Dewdney-Alouette	7.90	7.36	0.36	0.44	0.00	0.00	0.12	0.00	8.38	7.80
13 East Kootenay	8.02	9.07	2.06	0.84	0.00	0.00	0.00	0.00	10.07	9.91
14 Fraser-Cheam	5.72	6.03	0.79	0.60	0.00	0.00	0.16	0.30	6.67	6.93
15 Fraser-Fort George	6.61	7.25	0.58	0.81	0.00	0.12	0.00	0.12	7.19	8.28
17 Kitimat-Stikine	7.40	7.65	1.28	0.99	0.00	0.49	0.00	0.00	8.67	9.13
18 Kootenay Boundary	13.75	13.00	1.68	1.67	0.00	1.00	0.34	0.67	15.76	16.34
19 Mount Waddington	5.64	6.35	2.82	0.00	0.00	0.00	0.00	0.00	8.45	6.35
20 Nanaimo	8.04	8.31	1.36	1.38	0.00	0.21	0.11	0.11	9.51	10.01
21 North Okanagan	7.83	8.06	1.07	0.88	0.00	0.18	0.00	0.00	8.90	9.11
22 Okanagan-Similkameen	7.59	7.87	0.81	0.63	0.00	0.00	0.00	0.16	8.40	8.66
23 Peace River	6.08	6.53	0.61	0.82	0.00	0.00	0.00	0.00	6.69	7.35
24 Powell River	6.05	7.08	1.65	0.54	0.00	0.00	0.00	0.00	7.70	7.62
25 Skeena-Queen Charlotte	4.37	6.05	0.87	0.00	0.00	0.00	0.00	0.00	5.24	6.05
26 Squamish-Lillooet	6.07	5.30	0.00	1.33	0.00	0.00	0.47	0.00	6.53	6.63
27 Stikine	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00	0.00	6.56
28 Sunshine Coast	6.16	7.04	0.56	0.54	0.00	0.00	0.00	0.00	6.72	7.58
29 Thompson-Nicola	9.81	10.61	1.23	1.30	0.00	0.00	1.63	1.40	12.67	13.32
30 Fort Nelson/Liard	6.40	6.66	0.00	0.00	0.00	0.00	0.00	0.00	6.40	6.66
<b>Metropolitan - Subtotal</b>	<b>9.77</b>	<b>9.90</b>	<b>0.98</b>	<b>0.88</b>	<b>0.06</b>	<b>0.29</b>	<b>0.34</b>	<b>0.40</b>	<b>11.15</b>	<b>11.47</b>
3 Capital	9.15	8.98	1.20	1.04	0.00	0.17	0.11	0.13	10.46	10.32
16 Greater Vancouver	9.89	10.08	0.93	0.84	0.07	0.31	0.39	0.45	11.28	11.69
<b>TOTAL</b>	<b>8.58</b>	<b>8.88</b>	<b>0.99</b>	<b>0.88</b>	<b>0.04</b>	<b>0.20</b>	<b>0.27</b>	<b>0.30</b>	<b>9.88</b>	<b>10.25</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 3

Average Annual Rate of Change: Medical Laboratory Technologists (Members)<sup>1</sup>  
in British Columbia by Regional Hospital District by Membership Status  
September 1989 to October 1991

Regional Hospital District	Certified (Active)		Certified (Inactive)		Subscriber (Non-Certified)		Trainee		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>5.06</b>	<b>3.21</b>	<b>-4.44</b>	<b>-6.12</b>	*	*	<b>-2.02</b>	<b>-3.75</b>	<b>4.17</b>	<b>2.34</b>
1 Alberni-Clayoquot	-3.05	-3.62	*	*	*	*	*	*	5.48	4.86
2 Bulkley-Nechako	5.82	4.63	*	*	*	*	*	*	3.37	2.21
4 Cariboo	5.19	4.24	*	*	*	*	*	*	4.26	3.32
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	4.26	-0.88	*	*	*	*	*	*	-0.91	-5.80
7 Central Kootenay	15.28	13.43	*	*	*	*	*	*	13.94	12.11
8 Central Okanagan	10.11	6.68	*	*	*	*	*	*	9.69	6.27
9 Columbia-Shuswap	4.26	3.88	*	*	*	*	*	*	3.05	2.67
10 Comox-Strathcona	8.65	5.86	-25.24	-27.16	*	*	*	*	4.40	1.72
11 Cowichan Valley	8.35	6.88	*	*	*	*	*	*	8.45	6.99
12 Dewdney-Alouette	1.47	-3.33	*	*	*	*	*	*	1.38	-3.41
13 East Kootenay	4.80	6.11	-35.58	-34.78	*	*	*	*	-1.98	-0.76
14 Fraser-Cheam	5.19	2.56	*	*	*	*	*	*	4.46	1.85
15 Fraser-Fort George	4.92	4.52	*	*	*	*	*	*	7.44	7.03
17 Kitimat-Stikine	3.25	1.63	*	*	*	*	*	*	4.14	2.50
18 Kootenay Boundary	-2.37	-2.64	*	*	*	*	*	*	2.02	1.74
19 Mount Waddington	*	*	*	*	*	*	*	*	-12.90	-12.81
20 Nanaimo	4.62	1.60	3.92	0.92	*	*	*	*	5.55	2.50
21 North Okanagan	2.16	1.38	*	*	*	*	*	*	1.90	1.13
22 Okanagan-Similkameen	3.01	1.75	*	*	*	*	*	*	2.73	1.46
23 Peace River	3.15	3.52	*	*	*	*	*	*	4.26	4.65
24 Powell River	8.35	7.81	*	*	*	*	*	*	0.00	-0.50
25 Skeena-Queen Charlotte	17.53	16.94	*	*	*	*	*	*	7.68	7.14
26 Squamish-Lillooet	-3.77	-6.25	*	*	*	*	*	*	3.37	0.70
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	8.35	6.64	*	*	*	*	*	*	7.68	5.98
29 Thompson-Nicola	4.87	3.87	3.92	2.93	*	*	-6.21	-7.10	3.42	2.43
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>3.41</b>	<b>0.66</b>	<b>-2.59</b>	<b>-5.18</b>	<b>122.67</b>	<b>116.74</b>	<b>10.76</b>	<b>7.81</b>	<b>4.15</b>	<b>1.37</b>
3 Capital	1.47	-0.92	-4.34	-6.60	*	*	*	*	1.77	-0.64
16 Greater Vancouver	3.76	0.93	-2.16	-4.82	112.32	106.55	10.54	7.53	4.57	1.73
<b>TOTAL</b>	<b>4.00</b>	<b>1.63</b>	<b>-3.40</b>	<b>-5.60</b>	<b>131.11</b>	<b>125.85</b>	<b>7.23</b>	<b>4.80</b>	<b>4.16</b>	<b>1.79</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Rate of change (in percent) in the number.

<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 4

**Certified (Active) Medical Laboratory Technologists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Level of Training**  
**September 1989 and October 1991**

Regional Hospital District	RT		ART		FCSLT		Total	
	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>866</b>	<b>956</b>	<b>64</b>	<b>75</b>	<b>3</b>	<b>3</b>	<b>933</b>	<b>1,034</b>
1 Alberni-Clayoquot	16	15	0	0	0	0	16	15
2 Bulkley-Nechako	23	26	1	1	0	0	24	27
4 Cariboo	27	30	0	0	0	0	27	30
5 Central Coast	2	2	0	0	0	0	2	2
6 Central Fraser Valley	38	42	6	6	0	0	44	48
7 Central Kootenay	28	37	1	2	0	0	29	39
8 Central Okanagan	64	77	7	10	1	1	72	88
9 Columbia-Shuswap	22	23	0	1	0	0	22	24
10 Comox-Strathcona	51	61	2	2	0	0	53	63
11 Cowichan Valley	30	37	3	2	0	0	33	39
12 Dewdney-Alouette	62	63	3	4	0	0	65	67
13 East Kootenay	37	42	2	1	0	0	39	43
14 Fraser-Cheam	35	38	1	2	0	0	36	40
15 Fraser-Fort George	54	57	2	5	1	1	57	63
17 Kitimat-Stikine	27	29	1	1	1	1	29	31
18 Kootenay Boundary	38	36	3	3	0	0	41	39
19 Mount Waddington	8	9	0	0	0	0	8	9
20 Nanaimo	65	69	6	9	0	0	71	78
21 North Okanagan	41	43	3	3	0	0	44	46
22 Okanagan-Similkameen	43	47	4	3	0	0	47	50
23 Peace River	30	32	0	0	0	0	30	32
24 Powell River	11	13	0	0	0	0	11	13
25 Skeena-Queen Charlotte	10	14	0	0	0	0	10	14
26 Squamish-Lillooet	12	10	1	2	0	0	13	12
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	11	13	0	0	0	0	11	13
29 Thompson-Nicola	78	88	18	18	0	0	96	106
30 Fort Nelson/Liard	3	3	0	0	0	0	3	3
<b>Metropolitan - Subtotal</b>	<b>1,497</b>	<b>1,613</b>	<b>179</b>	<b>192</b>	<b>11</b>	<b>4</b>	<b>1,687</b>	<b>1,809</b>
3 Capital	225	236	30	30	4	1	259	267
16 Greater Vancouver	1,272	1,377	149	162	7	3	1,428	1,542
<b>TOTAL</b>	<b>2,363</b>	<b>2,569</b>	<b>243</b>	<b>267</b>	<b>14</b>	<b>7</b>	<b>2,620</b>	<b>2,843</b>

<sup>1</sup>Definitions are as in the attached text.

Table 5

**Certified (Active) Medical Laboratory Technologists<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Level of Training**  
**September 1989<sup>2</sup> and October 1991**

Regional Hospital District	RT		ART		FCSLT		Total	
	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>6.53</b>	<b>6.95</b>	<b>0.48</b>	<b>0.54</b>	<b>0.02</b>	<b>0.02</b>	<b>7.03</b>	<b>7.51</b>
1 Alberni-Clayoquot	5.34	4.95	0.00	0.00	0.00	0.00	5.34	4.95
2 Bulkley-Nechako	6.21	6.86	0.27	0.26	0.00	0.00	6.48	7.12
4 Cariboo	4.63	5.05	0.00	0.00	0.00	0.00	4.63	5.05
5 Central Coast	6.27	6.29	0.00	0.00	0.00	0.00	6.27	6.29
6 Central Fraser Valley	4.97	4.94	0.78	0.71	0.00	0.00	5.75	5.64
7 Central Kootenay	5.77	7.37	0.21	0.40	0.00	0.00	5.98	7.77
8 Central Okanagan	6.55	7.37	0.72	0.96	0.10	0.10	7.36	8.43
9 Columbia-Shuswap	5.55	5.76	0.00	0.25	0.00	0.00	5.55	6.01
10 Comox-Strathcona	6.67	7.56	0.26	0.25	0.00	0.00	6.94	7.81
11 Cowichan Valley	5.44	6.52	0.54	0.35	0.00	0.00	5.98	6.87
12 Dewdney-Alouette	7.53	6.92	0.36	0.44	0.00	0.00	7.90	7.36
13 East Kootenay	7.61	8.86	0.41	0.21	0.00	0.00	8.02	9.07
14 Fraser-Cheam	5.56	5.73	0.16	0.30	0.00	0.00	5.72	6.03
15 Fraser-Fort George	6.26	6.56	0.23	0.58	0.12	0.12	6.61	7.25
17 Kitimat-Stikine	6.89	7.16	0.26	0.25	0.26	0.25	7.40	7.65
18 Kootenay Boundary	12.74	12.00	1.01	1.00	0.00	0.00	13.75	13.00
19 Mount Waddington	5.64	6.35	0.00	0.00	0.00	0.00	5.64	6.35
20 Nanaimo	7.36	7.35	0.68	0.96	0.00	0.00	8.04	8.31
21 North Okanagan	7.30	7.53	0.53	0.53	0.00	0.00	7.83	8.06
22 Okanagan-Similkameen	6.94	7.40	0.65	0.47	0.00	0.00	7.59	7.87
23 Peace River	6.08	6.53	0.00	0.00	0.00	0.00	6.08	6.53
24 Powell River	6.05	7.08	0.00	0.00	0.00	0.00	6.05	7.08
25 Skeena-Queen Charlotte	4.37	6.05	0.00	0.00	0.00	0.00	4.37	6.05
26 Squamish-Lillooet	5.60	4.42	0.47	0.88	0.00	0.00	6.07	5.30
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	6.16	7.04	0.00	0.00	0.00	0.00	6.16	7.04
29 Thompson-Nicola	7.97	8.81	1.84	1.80	0.00	0.00	9.81	10.61
30 Fort Nelson/Liard	6.40	6.66	0.00	0.00	0.00	0.00	6.40	6.66
<b>Metropolitan - Subtotal</b>	<b>8.67</b>	<b>8.83</b>	<b>1.04</b>	<b>1.05</b>	<b>0.06</b>	<b>0.02</b>	<b>9.77</b>	<b>9.90</b>
3 Capital	7.95	7.93	1.06	1.01	0.14	0.03	9.15	8.98
16 Greater Vancouver	8.81	9.00	1.03	1.06	0.05	0.02	9.89	10.08
<b>TOTAL</b>	<b>7.74</b>	<b>8.02</b>	<b>0.80</b>	<b>0.83</b>	<b>0.05</b>	<b>0.02</b>	<b>8.58</b>	<b>8.88</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.

Table 6

Average Annual Rate of Change: Certified (Active) Medical Laboratory Technologists<sup>1</sup>  
in British Columbia by Regional Hospital District by Level of Training  
September 1989 to October 1991

Regional Hospital District	RT		ART		FCSLT		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>4.86</b>	<b>3.01</b>	<b>7.91</b>	<b>6.01</b>	*	*	<b>5.06</b>	<b>3.21</b>
1 Alberni-Clayoquot	-3.05	-3.62	*	*	*	*	-3.05	-3.62
2 Bulkley-Nechako	6.06	4.87	*	*	*	*	5.82	4.63
4 Cariboo	5.19	4.24	*	*	*	*	5.19	4.24
5 Central Coast	*	*	*	*	*	*	*	*
6 Central Fraser Valley	4.92	-0.26	*	*	*	*	4.26	-0.88
7 Central Kootenay	14.31	12.48	*	*	*	*	15.28	13.43
8 Central Okanagan	9.28	5.88	*	*	*	*	10.11	6.68
9 Columbia-Shuswap	2.16	1.78	*	*	*	*	4.26	3.88
10 Comox-Strathcona	8.97	6.18	*	*	*	*	8.65	5.86
11 Cowichan Valley	10.59	9.10	*	*	*	*	8.35	6.88
12 Dewdney-Alouette	0.77	-3.99	*	*	*	*	1.47	-3.33
13 East Kootenay	6.27	7.60	*	*	*	*	4.80	6.11
14 Fraser-Cheam	4.03	1.43	*	*	*	*	5.19	2.56
15 Fraser-Fort George	2.63	2.24	*	*	*	*	4.92	4.52
17 Kitimat-Stikine	3.49	1.86	*	*	*	*	3.25	1.63
18 Kootenay Boundary	-2.56	-2.83	*	*	*	*	-2.37	-2.64
19 Mount Waddington	*	*	*	*	*	*	*	*
20 Nanaimo	2.91	-0.06	*	*	*	*	4.62	1.60
21 North Okanagan	2.31	1.54	*	*	*	*	2.16	1.38
22 Okanagan-Similkameen	4.36	3.08	*	*	*	*	3.01	1.75
23 Peace River	3.15	3.52	*	*	*	*	3.15	3.52
24 Powell River	8.35	7.81	*	*	*	*	8.35	7.81
25 Skeena-Queen Charlotte	17.53	16.94	*	*	*	*	17.53	16.94
26 Squamish-Lillooet	-8.38	-10.74	*	*	*	*	-3.77	-6.25
27 Stikine	*	*	*	*	*	*	*	*
28 Sunshine Coast	8.35	6.64	*	*	*	*	8.35	6.64
29 Thompson-Nicola	5.96	4.95	0.00	-0.95	*	*	4.87	3.87
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>3.65</b>	<b>0.89</b>	<b>3.42</b>	<b>0.67</b>	<b>-38.47</b>	<b>-40.10</b>	<b>3.41</b>	<b>0.66</b>
3 Capital	2.32	-0.10	0.00	-2.36	*	*	1.47	-0.92
16 Greater Vancouver	3.88	1.06	4.10	1.27	*	*	3.76	0.93
<b>TOTAL</b>	<b>4.09</b>	<b>1.73</b>	<b>4.62</b>	<b>2.25</b>	<b>-28.30</b>	<b>-29.93</b>	<b>4.00</b>	<b>1.63</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Rate of change (in percent) in the number.

<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia



## MEDICAL RADIATION TECHNOLOGISTS

## MEDICAL RADIATION TECHNOLOGISTS

**Definition:** A medical radiation technologist

(a) in diagnostic radiography

operates radiography equipment to produce images of body structures for diagnostic purposes. Explains treatment and reassures patient. Positions patient so that relevant body parts are recorded. Affixes shields to protect unaffected areas of patient from radiation. Adjusts equipment controls to collimate beam, to regulate length and intensity of X-ray exposure, and to expose film. Processes and prepares films for interpretation by radiologist. Maintains and operates radiographic and fluoroscopic equipment and accessories under physician supervision. Operates radiography equipment in operating theatre or other specialized area to assist physician or surgeon.<sup>1</sup>

(b) in radiotherapy

administers radiation treatment to patients as prescribed by radiation oncologist. Explains treatment and reassures patient. Positions patient according to part of body being treated. Affixes shields to protect unaffected areas of patient from radiation. Adjusts equipment controls to collimate and direct radiation beam. Monitors patient and initiates emergency procedures as required. Assists clinical physicist to prepare patient's treatment plan according to radiation oncologist's prescription. Prepares or assists in preparation of sealed radioactive substances for insertion into body cavities or particular tissues or for surface application.<sup>2</sup>

(c) in nuclear medicine

is aware of patient needs and cares for patient during *in vivo* nuclear medicine procedures, including observing and responding to changes in status and initiating emergency procedures as required. Carries out *in vitro* tests with understanding of quality control and standards implied; prepares radionuclides, reagents, and radiopharmaceuticals for *in vivo* administration. Prepares radiation sources to be delivered to certain malignant or other tissues by administering suitable radionuclides or chemical compounds containing them; checks calibration of amount of activity; ensures that radiation protection measures are observed in handling and dispensing of radioactive material. Administers prescribed dose of radiopharmaceuticals after appropriate preparation and calibration. Maintains,

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<sup>1</sup>Adapted from *Canadian Classification and Dictionary of Occupations 1980*.

Major Group 31, No. 3155-114, p. 61, Ottawa: Employment and Immigration Canada, 1980 and *Perspectives on Health Occupations*, Ottawa: Canadian Medical Association, 1986.

<sup>2</sup>*Ibid.*, Major Group 31, No. 3155-118, p. 61.

calibrates and operates specialized equipment; prepares reagents and pharmaceuticals; performs tests with regard to clinical information available; assesses tests for artifactual anomalies; prepares results; controls quality. Understands and practises measures necessary for radiation safety in respect to patients, public, self and environment. Implements necessary data processing methods.<sup>3</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the British Columbia Association of Medical Radiation Technologists is voluntary. However, BCAMRT membership is restricted to those technologists who pass a certification examination administered by that body, or an equivalent examination.

**Date of Record:** December 1989 and October 1991.

**Source of Data:** British Columbia Association of Medical Radiation Technologists (BCAMRT).

**Preparation and Updating:**

The tables, derived solely from the membership list supplied by the BCAMRT, include qualified members who had a British Columbia address at the date of record. Associate members, who may or may not be working in the field but do not qualify for full BCAMRT membership, are excluded. Figures for 1991 include 13 technologists who are also qualified to work as diagnostic medical sonographers (DMS) and who may be included in the count of DMS personnel.

**Definition of Terms:**

Medical radiation technologists are classified in the tables according to last known employment discipline supported by the necessary qualifications. The categories used are as follows:

- (a) Diagnostic Radiology;
- (b) Radiation Therapy;
- (c) Nuclear Medicine.

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<sup>3</sup>Adapted from *Perspectives on Health Occupations*. Ottawa: Canadian Medical Association, 1986 and from material received from British Columbia Association of Medical Radiation Technologists (BCAMRT), October, 1985.

**Medical Radiation Technologists (Members)  
per 10,000 Population  
by Regional Hospital District  
October 1991  
N=1334**

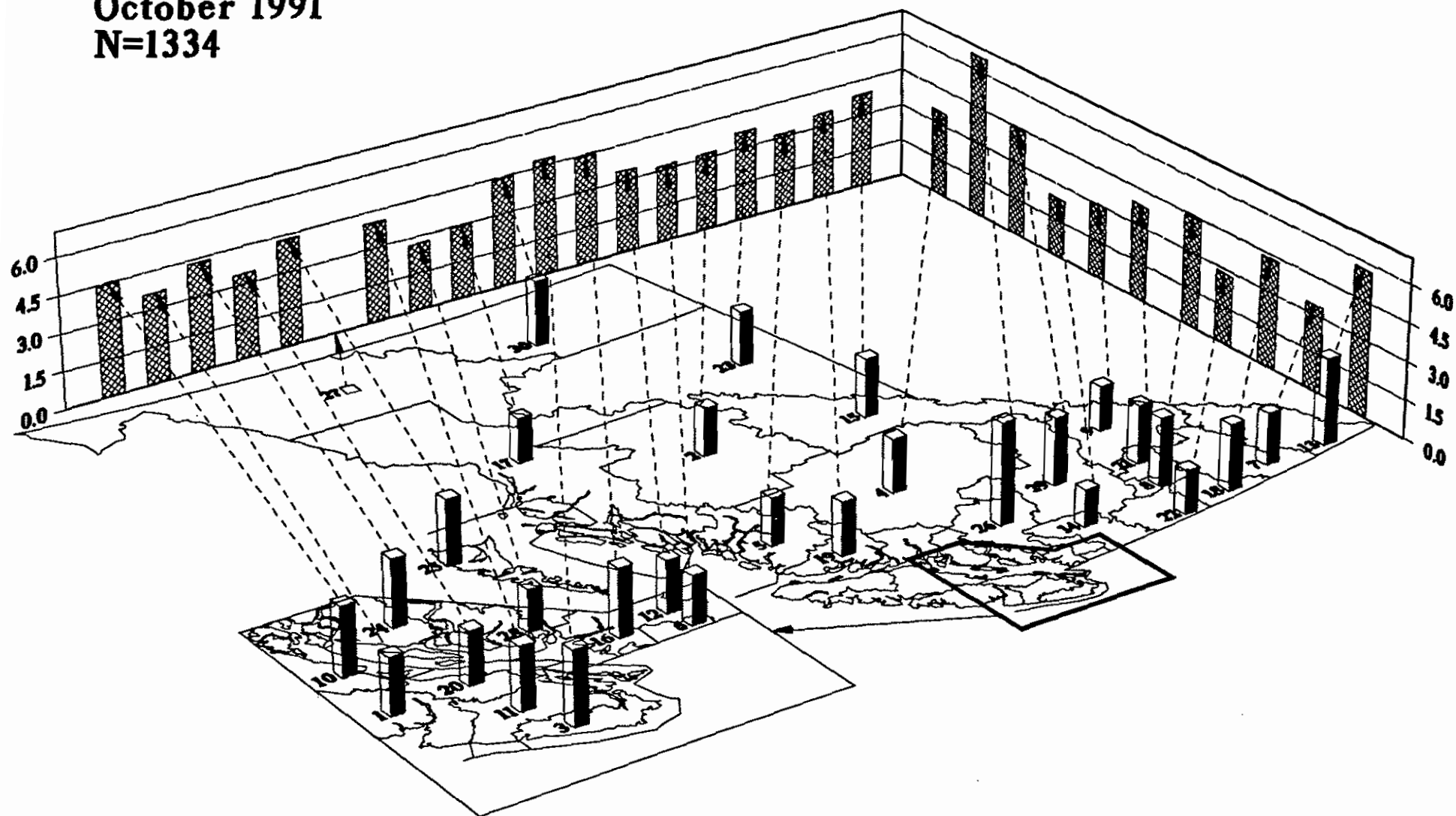


Table 1

**Medical Radiation Technologists (Members)<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Discipline**  
**December 1989 and October 1991<sup>2</sup>**

Regional Hospital District	Diagnostic Radiography <sup>3</sup>		Radiation Therapy		Nuclear Medicine		Total	
	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>395</b>	<b>480</b>	<b>3</b>	<b>3</b>	<b>23</b>	<b>35</b>	<b>421</b>	<b>518</b>
1 Alberni-Clayoquot	11	11	0	0	0	0	11	11
2 Bulkley-Nechako	11	12	0	0	0	0	11	12
4 Cariboo	19	21	0	0	0	0	19	21
5 Central Coast	1	1	0	0	0	0	1	1
6 Central Fraser Valley	22	27	0	0	0	0	22	27
7 Central Kootenay	16	17	0	0	0	0	16	17
8 Central Okanagan	26	39	1	0	6	7	33	46
9 Columbia-Shuswap	13	12	0	0	0	0	13	12
10 Comox-Strathcona	24	33	0	0	0	3	24	36
11 Cowichan Valley	15	20	1	2	0	1	16	23
12 Dewdney-Alouette	22	27	1	1	2	3	25	31
13 East Kootenay	21	24	0	0	2	3	23	27
14 Fraser-Cheam	12	16	0	0	0	0	12	16
15 Fraser-Fort George	29	31	0	0	3	3	32	34
17 Kitimat-Stikine	9	11	0	0	0	1	9	12
18 Kootenay Boundary	10	10	0	0	2	3	12	13
19 Mount Waddington	5	5	0	0	0	0	5	5
20 Nanaimo	19	31	0	0	1	1	20	32
21 North Okanagan	18	18	0	0	1	4	19	22
22 Okanagan-Similkameen	14	18	0	0	0	0	14	18
23 Peace River	14	16	0	0	1	2	15	18
24 Powell River	5	8	0	0	0	0	5	8
25 Skeena-Queen Charlotte	8	10	0	0	1	0	9	10
26 Squamish-Lillooet	11	14	0	0	1	1	12	15
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	5	5	0	0	0	0	5	5
29 Thompson-Nicola	33	41	0	0	3	3	36	44
30 Fort Nelson/Liard	2	2	0	0	0	0	2	2
<b>Metropolitan - Subtotal</b>	<b>585</b>	<b>642</b>	<b>61</b>	<b>71</b>	<b>78</b>	<b>103</b>	<b>724</b>	<b>816</b>
3 Capital	91	108	16	17	15	17	122	142
16 Greater Vancouver	494	534	45	54	63	86	602	674
<b>TOTAL</b>	<b>980</b>	<b>1,122</b>	<b>64</b>	<b>74</b>	<b>101</b>	<b>138</b>	<b>1,145</b>	<b>1,334</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Data for 1991 exclude two Associate members and one member with unknown discipline.

<sup>3</sup>Includes 13 technologists who are also qualified to work as diagnostic medical sonographers (DMS) and who may be included in the count of DMS personnel.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

**Medical Radiation Technologists (Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Employment Discipline**  
**December 1989 and October 1991**

Regional Hospital District	Diagnostic Radiography		Radiation Therapy		Nuclear Medicine		Total	
	1989	1991	1989	1991	1989	1991	1989 <sup>2</sup>	1991
<b>Non-Metropolitan - Subtotal</b>	<b>2.98</b>	<b>3.49</b>	<b>0.02</b>	<b>0.02</b>	<b>0.17</b>	<b>0.25</b>	<b>3.17</b>	<b>3.76</b>
1 Alberni-Clayoquot	3.67	3.63	0.00	0.00	0.00	0.00	3.67	3.63
2 Bulkley-Nechako	2.97	3.17	0.00	0.00	0.00	0.00	2.97	3.17
4 Cariboo	3.26	3.53	0.00	0.00	0.00	0.00	3.26	3.53
5 Central Coast	3.13	3.14	0.00	0.00	0.00	0.00	3.13	3.14
6 Central Fraser Valley	2.87	3.17	0.00	0.00	0.00	0.00	2.87	3.17
7 Central Kootenay	3.30	3.39	0.00	0.00	0.00	0.00	3.30	3.39
8 Central Okanagan	2.66	3.73	0.10	0.00	0.61	0.67	3.38	4.40
9 Columbia-Shuswap	3.28	3.00	0.00	0.00	0.00	0.00	3.28	3.00
10 Comox-Strathcona	3.14	4.09	0.00	0.00	0.00	0.37	3.14	4.46
11 Cowichan Valley	2.72	3.52	0.18	0.35	0.00	0.18	2.90	4.05
12 Dewdney-Alouette	2.67	2.96	0.12	0.11	0.24	0.33	3.04	3.40
13 East Kootenay	4.32	5.06	0.00	0.00	0.41	0.63	4.73	5.70
14 Fraser-Cheam	1.91	2.41	0.00	0.00	0.00	0.00	1.91	2.41
15 Fraser-Fort George	3.36	3.57	0.00	0.00	0.35	0.35	3.71	3.91
17 Kitimat-Stikine	2.30	2.71	0.00	0.00	0.00	0.25	2.30	2.96
18 Kootenay Boundary	3.35	3.33	0.00	0.00	0.67	1.00	4.02	4.33
19 Mount Waddington	3.52	3.53	0.00	0.00	0.00	0.00	3.52	3.53
20 Nanaimo	2.15	3.30	0.00	0.00	0.11	0.11	2.26	3.41
21 North Okanagan	3.20	3.15	0.00	0.00	0.18	0.70	3.38	3.85
22 Okanagan-Similkameen	2.26	2.83	0.00	0.00	0.00	0.00	2.26	2.83
23 Peace River	2.84	3.27	0.00	0.00	0.20	0.41	3.04	3.68
24 Powell River	2.75	4.35	0.00	0.00	0.00	0.00	2.75	4.35
25 Skeena-Queen Charlotte	3.49	4.32	0.00	0.00	0.44	0.00	3.93	4.32
26 Squamish-Lillooet	5.13	6.19	0.00	0.00	0.47	0.44	5.60	6.63
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	2.80	2.71	0.00	0.00	0.00	0.00	2.80	2.71
29 Thompson-Nicola	3.37	4.11	0.00	0.00	0.31	0.30	3.68	4.41
30 Fort Nelson/Liard	4.27	4.44	0.00	0.00	0.00	0.00	4.27	4.44
<b>Metropolitan - Subtotal</b>	<b>3.39</b>	<b>3.51</b>	<b>0.35</b>	<b>0.39</b>	<b>0.45</b>	<b>0.56</b>	<b>4.19</b>	<b>4.47</b>
3 Capital	3.22	3.63	0.57	0.57	0.53	0.57	4.31	4.77
16 Greater Vancouver	3.42	3.49	0.31	0.35	0.44	0.56	4.17	4.41
<b>TOTAL</b>	<b>3.21</b>	<b>3.50</b>	<b>0.21</b>	<b>0.23</b>	<b>0.33</b>	<b>0.43</b>	<b>3.75</b>	<b>4.16</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 3

**Average Annual Rate of Change: Medical Radiation Technologists (Members)<sup>1</sup>**  
**in British Columbia by Regional Hospital District by Employment Discipline**  
**December 1989 to October 1991**

Regional Hospital District	Diagnostic Radiography		Radiation Therapy		Nuclear Medicine		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>11.22</b>	<b>8.99</b>	*	*	<b>25.74</b>	<b>23.22</b>	<b>11.97</b>	<b>9.73</b>
1 Alberni-Clayoquot	0.00	-0.67	*	*	*	*	0.00	-0.67
2 Bulkley-Nechako	4.86	3.52	*	*	*	*	4.86	3.52
4 Cariboo	5.61	4.53	*	*	*	*	5.61	4.53
5 Central Coast	*	*	*	*	*	*	*	*
6 Central Fraser Valley	11.82	5.56	*	*	*	*	11.82	5.56
7 Central Kootenay	3.36	1.48	*	*	*	*	3.36	1.48
8 Central Okanagan	24.75	20.34	*	*	*	*	19.86	15.62
9 Columbia-Shuswap	-4.27	-4.67	*	*	*	*	-4.27	-4.67
10 Comox-Strathcona	18.97	15.51	*	*	*	*	24.75	21.12
11 Cowichan Valley	16.99	15.19	*	*	*	*	21.89	20.02
12 Dewdney-Alouette	11.82	5.83	*	*	*	*	12.45	6.43
13 East Kootenay	7.56	9.08	*	*	*	*	9.14	10.69
14 Fraser-Cheam	16.99	13.67	*	*	*	*	16.99	13.67
15 Fraser-Fort George	3.70	3.26	*	*	*	*	3.36	2.92
17 Kitimat-Stikine	*	*	*	*	*	*	*	*
18 Kootenay Boundary	0.00	-0.31	*	*	*	*	4.46	4.14
19 Mount Waddington	*	*	*	*	*	*	*	*
20 Nanaimo	30.61	26.33	*	*	*	*	29.22	24.99
21 North Okanagan	0.00	-0.86	*	*	*	*	8.32	7.40
22 Okanagan-Similkameen	14.69	13.09	*	*	*	*	14.69	13.09
23 Peace River	7.56	8.00	*	*	*	*	10.46	10.91
24 Powell River	*	*	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	14.06	10.72	*	*	*	*	12.94	9.64
27 Stikine	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	*	*
29 Thompson-Nicola	12.57	11.35	*	*	*	*	11.57	10.36
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>5.20</b>	<b>2.03</b>	<b>8.63</b>	<b>5.35</b>	<b>16.37</b>	<b>12.86</b>	<b>6.74</b>	<b>3.52</b>
3 Capital	9.79	6.85	3.36	0.59	7.07	4.20	8.63	5.72
16 Greater Vancouver	4.34	1.12	10.46	7.05	18.50	14.85	6.36	3.07
<b>TOTAL</b>	<b>7.66</b>	<b>4.88</b>	<b>8.24</b>	<b>5.45</b>	<b>18.56</b>	<b>15.50</b>	<b>8.69</b>	<b>5.89</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Rate of change (in percent) in the number.

<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia





## RESPIRATORY THERAPISTS



## RESPIRATORY THERAPISTS

**Definition:** A respiratory therapist

"administers respiratory therapy to patients in hospital or at home. Discusses patient's treatment with medical and nursing staff. Sets up ventilators, incubators, manual resuscitators and other life-support equipment. Attaches life support equipment to patient. Operates controls of equipment to adjust airway pressure, humidity, blood gas levels, respiratory rate and other factors. Monitors patient's progress and equipment function. Performs basic pulmonary function tests to assist physician in diagnosis of respiratory illnesses. Takes blood sample from patient and analyzes for blood gas values, if required. Explains treatment procedures and demonstrates equipment operation to patients and hospital personnel. Performs artificial respiration and external cardiac massage, if required. Services and repairs equipment and inspects all medical piping, manifolds and patient alarm system."<sup>1</sup>

**Governing Statute:** None. Compulsory registration and/or licensure do not exist. Membership in British Columbia Society of Respiratory Therapists is voluntary. However, registered members have exclusive use of the titles: *Registered Respiratory Therapist*, *Registered Respiratory Technologist* or *RRT*.

**Governing Body:** None.

**Date of Record:** January 1992.

**Source of Data:** The British Columbia Society of Respiratory Therapists.

### Preparation and Updating:

The table is derived from the membership roster of the British Columbia Society of Respiratory Therapists. It includes active members of the BCSRT who reported a British Columbia address at the date of record.

Because 1989 data included respiratory therapists who were not active members of the BCSRT, comparison with 1992 figures is of limited value and has not been presented.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980.*

Major Group 31, No. 3159-134, p. 68, Ottawa: Employment and Immigration Canada.

**Respiratory Therapists (Members)  
per 10,000 Population  
by Regional Hospital District  
January 1992  
N=242**

146

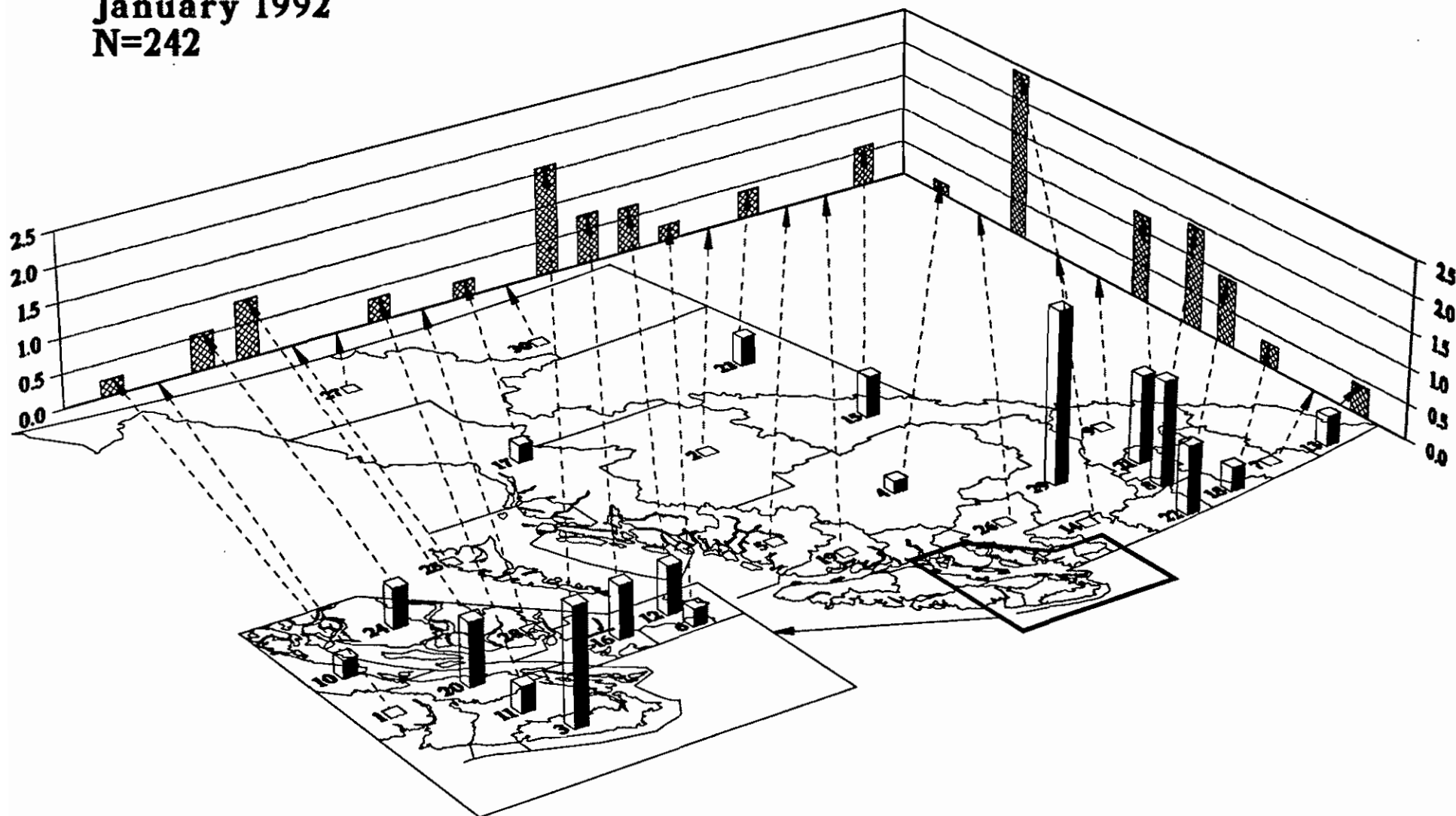


Table 1

Respiratory Therapists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District

January 1992

Regional Hospital District	Number	Number per 10,000 Population
<b>Non-Metropolitan - Subtotal</b>	<b>85</b>	<b>0.62</b>
1 Alberni-Clayoquot	0	0.00
2 Bulkley-Nechako	0	0.00
4 Cariboo	1	0.17
5 Central Coast	0	0.00
6 Central Fraser Valley	2	0.24
7 Central Kootenay	0	0.00
8 Central Okanagan	15	1.44
9 Columbia-Shuswap	0	0.00
10 Comox-Strathcona	2	0.25
11 Cowichan Valley	2	0.35
12 Dewdney-Alouette	6	0.66
13 East Kootenay	2	0.42
14 Fraser-Cheam	0	0.00
15 Fraser-Fort George	5	0.58
17 Kitimat-Stikine	1	0.25
18 Kootenay Boundary	1	0.33
19 Mount Waddington	0	0.00
20 Nanaimo	8	0.85
21 North Okanagan	7	1.23
22 Okanagan-Similkameen	6	0.94
23 Peace River	2	0.41
24 Powell River	1	0.54
25 Skeena-Queen Charlotte	0	0.00
26 Squamish-Lillooet	0	0.00
27 Stikine	0	0.00
28 Sunshine Coast	0	0.00
29 Thompson-Nicola	24	2.40
30 Fort Nelson/Liard	0	0.00
<b>Metropolitan - Subtotal</b>	<b>157</b>	<b>0.86</b>
3 Capital	47	1.58
16 Greater Vancouver	110	0.72
<b>TOTAL</b>	<b>242</b>	<b>0.76</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
Health Human Resources Unit  
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**V. MEDICAL AND  
TREATMENT SERVICES**





## CHIROPRACTORS



## CHIROPRACTORS

**Definition:** A chiropractor

"is a health care professional who is concerned with the cause, diagnosis, treatment, and prevention of functional disorders, pain syndromes, pathomechanical states and neuro physiological effects of spinal disorders.

Diagnosis is based on consultation, physical examination, spinal analysis, and radiographic imaging when appropriate. Primary treatment is the adjustment by hand of spinal articulations and often includes lifestyle counselling including nutritional guidance."<sup>1</sup>

**Governing Statute:** Chiropractors Act, Revised Statutes of British Columbia, 1979, Chapter 50; Health Professions Amendment Act, 1989, Chapter 29, Sections 1-6; Health Statutes Amendment Act, 1990, Chapter 51, Sections 1-2.

**Governing Body:** British Columbia College of Chiropractors. In order to practise as a Chiropractor in British Columbia, it is necessary to hold a certificate of registration from the British Columbia College of Chiropractors.

**Date of Record:** January 1990 and October 1991.

**Preparation and Updating:**

The table, derived from the *Register* of the British Columbia College of Chiropractors, includes registered chiropractors who reported a British Columbia address at the date of record.

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<sup>1</sup>Definition from the British Columbia College of Chiropractors.

**Registered Chiropractors  
per 10,000 Population  
by Regional Hospital District  
October 1991  
N=459**

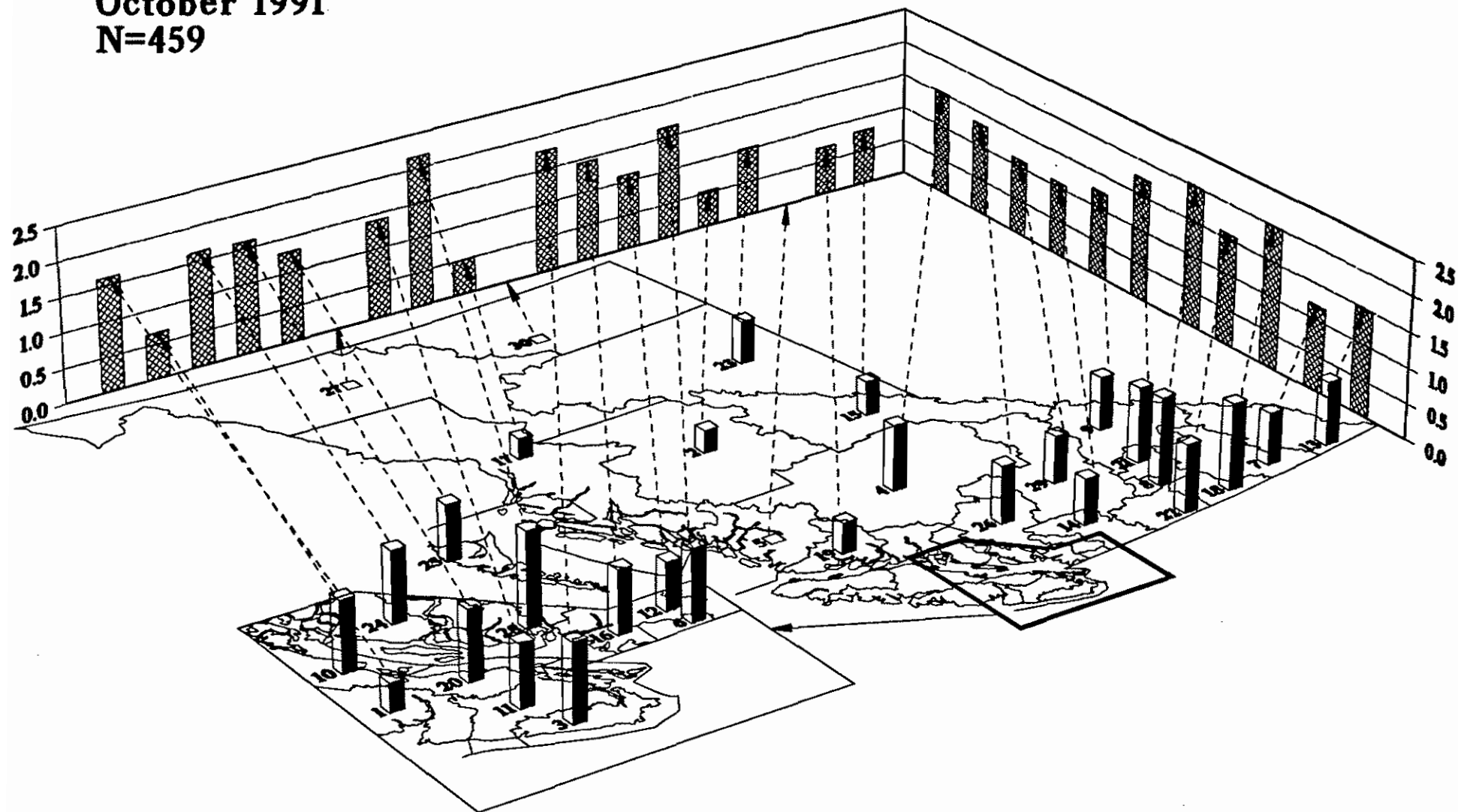


Table 1

Registered Chiropractors<sup>1</sup> in British Columbia

by Regional Hospital District

January 1990 and October 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1990	1991	1990 <sup>2</sup>	1991	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>159</b>	<b>184</b>	<b>1.20</b>	<b>1.34</b>	<b>8.70</b>	<b>6.43</b>
1 Alberni-Clayoquot	2	2	0.67	0.66	*	*
2 Bulkley-Nechako	2	2	0.54	0.53	*	*
4 Cariboo	8	9	1.37	1.51	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	12	14	1.57	1.65	9.21	2.82
7 Central Kootenay	7	6	1.44	1.20	*	*
8 Central Okanagan	16	21	1.64	2.01	16.81	12.49
9 Columbia-Shuswap	5	5	1.26	1.25	*	*
10 Comox-Strathcona	10	13	1.31	1.61	16.17	12.63
11 Cowichan Valley	7	8	1.27	1.41	*	*
12 Dewdney-Alouette	10	10	1.21	1.10	0.00	-5.60
13 East Kootenay	6	7	1.23	1.48	*	*
14 Fraser-Cheam	7	7	1.11	1.06	*	*
15 Fraser-Fort George	6	7	0.70	0.81	*	*
17 Kitimat-Stikine	2	2	0.51	0.49	*	*
18 Kootenay Boundary	4	6	1.34	2.00	*	*
19 Mount Waddington	2	1	1.41	0.71	*	*
20 Nanaimo	10	15	1.13	1.60	26.07	21.76
21 North Okanagan	8	10	1.42	1.75	*	*
22 Okanagan-Similkameen	9	10	1.45	1.57	*	*
23 Peace River	5	5	1.01	1.02	*	*
24 Powell River	2	3	1.10	1.63	*	*
25 Skeena-Queen Charlotte	3	3	1.31	1.30	*	*
26 Squamish-Lillooet	1	3	0.47	1.33	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	4	4	2.24	2.17	*	*
29 Thompson-Nicola	11	11	1.12	1.10	0.00	-1.13
30 Port Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>246</b>	<b>275</b>	<b>1.42</b>	<b>1.51</b>	<b>6.58</b>	<b>3.21</b>
3 Capital	45	53	1.59	1.78	9.80	6.72
16 Greater Vancouver	201	222	1.39	1.45	5.84	2.42
<b>TOTAL</b>	<b>405</b>	<b>459</b>	<b>1.33</b>	<b>1.43</b>	<b>7.41</b>	<b>4.51</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures for 1990 appearing in ROLLCALL 89. See Foreword.<sup>3</sup>Rate of change (in percent) in the number.<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia



## EMERGENCY MEDICAL ASSISTANTS

## EMERGENCY MEDICAL ASSISTANTS

- Definition:** An emergency medical assistant provides first aid, nursing and medical services to minimize disability or loss of life in emergency situations. Depending upon level of training, the Emergency Medical Assistant (EMA) will be skilled in the areas of first aid, general ambulance practices and procedures, basic nursing, patient assessment, specialized diagnostics and treatments.
- An Emergency Medical Assistant First Responder (EMA FR) may be employed with a police force, a fire department, or an agency approved by the Emergency Health Services Commission (EHSC). All other EMAs are employed either with the EHSC or with a contractor who has a contract for service with the Commission.<sup>1</sup>
- Governing Statute:** Health Emergency Act, Revised Statutes of British Columbia, 1979, Chapter 162; Health Statutes Amendment Act, 1989, Chapter 48, Sections 14-17; administered by the Ministry of Health.
- Governing Body:** Emergency Medical Assistants Licensing Board (EMALB). In order to practise as an Emergency Medical Assistant in British Columbia, it is necessary to be licensed by the Emergency Medical Assistants Licensing Board. Licenced Emergency Medical Assistants have exclusive use of the title: *Emergency Medical Assistant*.
- Date of Record:** January 1992.
- Source of Data:** Emergency Medical Assistants Licensing Branch, Ministry of Health.
- Preparation and Updating:**
- The tables, derived from the register of the EMALB, include only Licenced Emergency Medical Assistants who were British Columbia residents at the date of record. At the time of publication, data were unavailable for EMA First Responders.

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<sup>1</sup>Adapted from the Health Emergency Act, Revised Statutes of British Columbia, 1979, Chapter 162, and from information provided by the Emergency Medical Assistants Licensing Branch, Ministry of Health, Province of British Columbia, January 1992.



**Definition of Terms:****1. Employment Status**

Total number and number per 10,000 population of full-time and part-time Emergency Medical Assistants are shown in Table 1.

**2. Age**

Age information on Emergency Medical Assistants, derived from the registration database of the Emergency Medical Assistants Licensing Board, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada. Information about sex distribution is not available for Emergency Medical Assistants.

**3. Licence Category**

Table 3 shows licence categories for Emergency Medical Assistants who were British Columbia residents at the date of record. Licence categories are as follows:

- (a) Emergency Medical Assistant - First Aid (EMA FA);
- (b) Emergency Medical Assistant 1 (EMA 1);
- (c) Emergency Medical Assistant 2 (EMA 2);
- (d) Emergency Medical Assistant 3 - Advanced Life Support (EMA 3 (ALS));
- (e) Emergency Medical Assistant 3 - Infant Transport Team (EMA 3 (ITT)).

**Emergency Medical Assistants  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=2676**

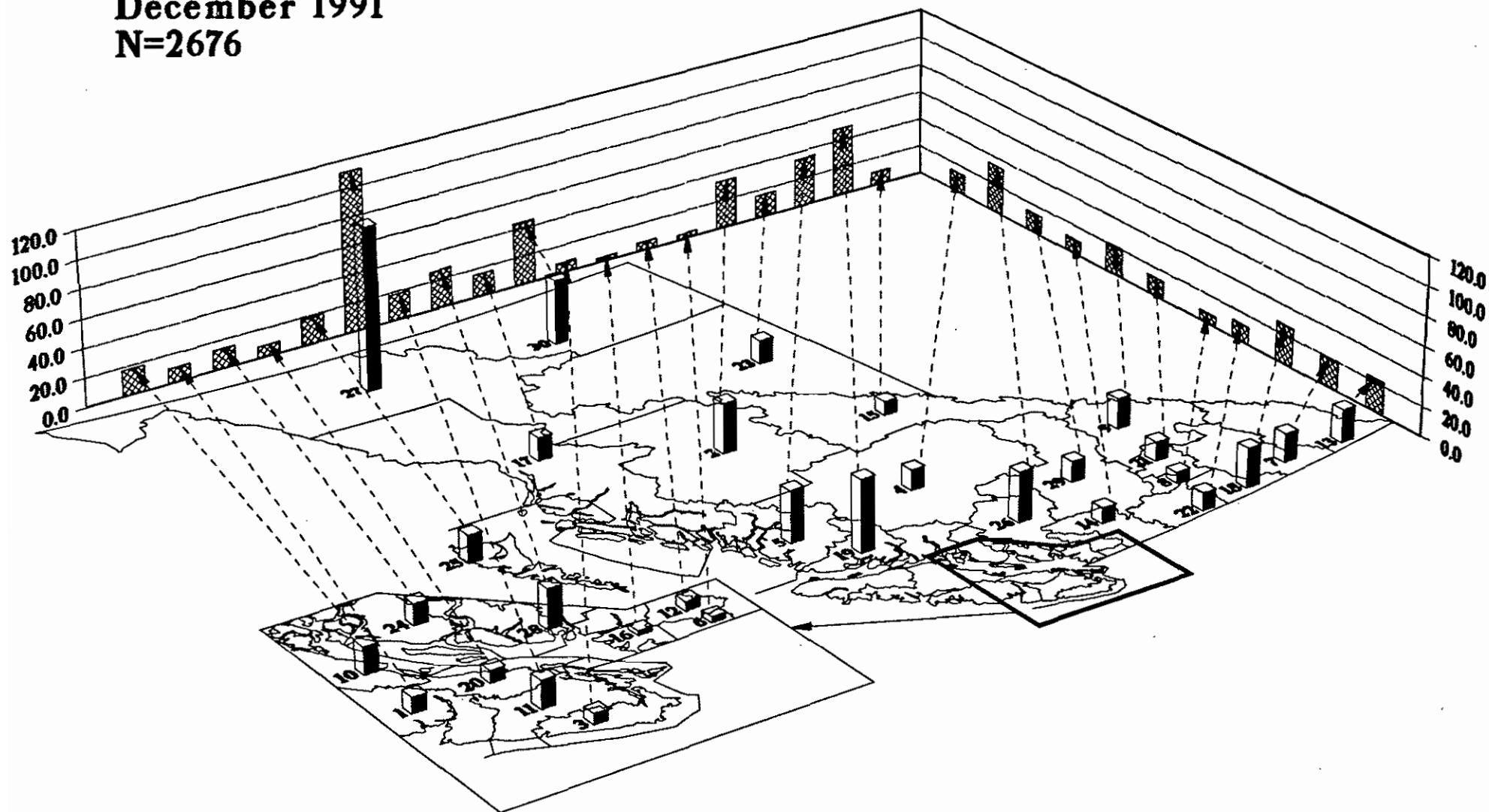


Table 1

Emergency Medical Assistants<sup>1</sup> in British Columbia

## by Regional Hospital District by Employment Status

December 1991

Regional Hospital District	Number			Number per 10,000 Population		
	Part-time <sup>2</sup>	Full-time	Total <sup>3</sup>	Part-time <sup>2</sup>	Full-time	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1,650</b>	<b>346</b>	<b>1,996</b>	<b>11.99</b>	<b>2.51</b>	<b>14.50</b>
1 Alberni-Clayoquot	30	2	32	9.89	0.66	10.55
2 Bulkley-Nechako	123	6	129	32.44	1.58	34.02
4 Cariboo	73	10	83	12.29	1.68	13.97
5 Central Coast	11	0	11	34.59	0.00	34.59
6 Central Fraser Valley	17	16	33	2.00	1.88	3.88
7 Central Kootenay	91	6	97	18.14	1.20	19.33
8 Central Okanagan	52	21	73	4.98	2.01	6.99
9 Columbia-Shuswap	73	9	82	18.27	2.25	20.52
10 Comox-Strathcona	135	10	145	16.74	1.24	17.97
11 Cowichan Valley	73	31	104	12.86	5.46	18.32
12 Dewdney-Alouette	21	36	57	2.31	3.95	6.26
13 East Kootenay	94	12	106	19.83	2.53	22.36
14 Fraser-Cheam	38	30	68	5.73	4.52	10.25
15 Fraser-Fort George	63	20	83	7.25	2.30	9.55
17 Kitimat-Stikine	63	2	65	15.55	0.49	16.04
18 Kootenay Boundary	70	10	80	23.34	3.33	26.67
19 Mount Waddington	67	2	69	47.29	1.41	48.70
20 Nanaimo	55	23	78	5.86	2.45	8.31
21 North Okanagan	62	12	74	10.86	2.10	12.96
22 Okanagan-Similkameen	58	18	76	9.13	2.83	11.96
23 Peace River	74	6	80	15.11	1.23	16.34
24 Powell River	21	5	26	11.43	2.72	14.15
25 Skeena-Queen Charlotte	37	6	43	15.99	2.59	18.58
26 Squamish-Lillooet	68	8	76	30.05	3.54	33.59
27 Stikine	17	0	17	111.55	0.00	111.55
28 Sunshine Coast	38	11	49	20.57	5.95	26.53
29 Thompson-Nicola	107	33	140	10.71	3.30	14.02
30 Fort Nelson/Liard	19	1	20	42.20	2.22	44.42
<b>Metropolitan - Subtotal</b>	<b>359</b>	<b>321</b>	<b>680</b>	<b>1.97</b>	<b>1.76</b>	<b>3.72</b>
3 Capital	157	58	215	5.28	1.95	7.23
16 Greater Vancouver	202	263	465	1.32	1.72	3.04
<b>TOTAL</b>	<b>2,009</b>	<b>667</b>	<b>2,676</b>	<b>6.27</b>	<b>2.08</b>	<b>8.35</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Seven "Casual" Emergency Medical Assistants were included in the Part Time category.<sup>3</sup>Three Emergency Medical Assistants were excluded from this table due to unknown location.

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Table 2

Emergency Medical Assistants<sup>1</sup> in British Columbia

by Regional Hospital District by Age

December 1991

Regional Hospital District	Under 25	25 - 34	35 - 44	45 - 54	55 - 64	65+	Unknown	Total <sup>2</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>229</b>	<b>679</b>	<b>728</b>	<b>256</b>	<b>68</b>	<b>4</b>	<b>32</b>	<b>1,996</b>
1 Alberni-Clayoquot	7	8	13	2	0	0	2	32
2 Bulkley-Nechako	16	56	38	18	1	0	0	129
4 Cariboo	7	30	31	13	2	0	0	83
5 Central Coast	2	1	6	2	0	0	0	11
6 Central Fraser Valley	3	15	12	2	1	0	0	33
7 Central Kootenay	7	29	41	18	1	1	0	97
8 Central Okanagan	6	31	25	10	1	0	0	73
9 Columbia-Shuswap	12	21	27	11	11	0	0	82
10 Comox-Strathcona	15	48	50	20	3	1	8	145
11 Cowichan Valley	22	31	36	11	4	0	0	104
12 Dewdney-Alouette	3	23	21	8	2	0	0	57
13 East Kootenay	17	43	30	14	1	0	1	106
14 Fraser-Cheam	2	28	28	5	5	0	0	68
15 Fraser-Fort George	6	28	32	10	5	1	1	83
17 Kitimat-Stikine	13	26	20	5	0	0	1	65
18 Kootenay Boundary	10	24	33	11	2	0	0	80
19 Mount Waddington	7	18	35	7	0	0	2	69
20 Nanaimo	11	21	28	10	7	0	1	78
21 North Okanagan	8	21	28	16	1	0	0	74
22 Okanagan-Similkameen	5	24	27	14	5	0	1	76
23 Peace River	9	26	30	2	0	0	13	80
24 Powell River	6	6	10	3	1	0	0	26
25 Skeena-Queen Charlotte	3	20	12	6	2	0	0	43
26 Squamish-Lillooet	9	30	29	5	3	0	0	76
27 Stikine	2	4	6	4	1	0	0	17
28 Sunshine Coast	5	13	16	13	1	0	1	49
29 Thompson-Nicola	15	47	54	14	8	1	1	140
30 Fort Nelson/Liard	1	7	10	2	0	0	0	20
<b>Metropolitan - Subtotal</b>	<b>64</b>	<b>266</b>	<b>245</b>	<b>61</b>	<b>21</b>	<b>1</b>	<b>22</b>	<b>680</b>
3 Capital	23	66	84	14	7	1	20	215
16 Greater Vancouver	41	200	161	47	14	0	2	465
<b>TOTAL</b>	<b>293</b>	<b>945</b>	<b>973</b>	<b>317</b>	<b>89</b>	<b>5</b>	<b>54</b>	<b>2,676</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Three Emergency Medical Assistants were excluded from this table due to unknown location.

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Table 3

Emergency Medical Assistants<sup>1</sup> in British Columbia

by Regional Hospital District by Licence Category

December 1991

<u>Regional Hospital District</u>	<u>EMA FA</u>	<u>EMA 1</u>	<u>EMA 2</u>	<u>EMA 3 (ALS)</u>	<u>EMA 3 (ITT)</u>	<u>Total<sup>2</sup></u>
<b>Non-Metropolitan - Subtotal</b>	<b>495</b>	<b>1,003</b>	<b>449</b>	<b>48</b>	<b>1</b>	<b>1,996</b>
1 Alberni-Clayoquot	6	23	3	0	0	32
2 Bulkley-Nechako	28	85	16	0	0	129
4 Cariboo	20	41	22	0	0	83
5 Central Coast	5	6	0	0	0	11
6 Central Fraser Valley	3	15	15	0	0	33
7 Central Kootenay	23	61	13	0	0	97
8 Central Okanagan	9	36	17	11	0	73
9 Columbia-Shuswap	20	47	15	0	0	82
10 Comox-Strathcona	48	81	16	0	0	145
11 Cowichan Valley	29	40	33	2	0	104
12 Dewdney-Alouette	0	20	31	6	0	57
13 East Kootenay	25	59	22	0	0	106
14 Fraser-Cheam	5	26	31	6	0	68
15 Fraser-Fort George	11	34	31	7	0	83
17 Kitimat-Stikine	25	35	5	0	0	65
18 Kootenay Boundary	27	39	14	0	0	80
19 Mount Waddington	27	37	5	0	0	69
20 Nanaimo	19	33	23	3	0	78
21 North Okanagan	14	45	15	0	0	74
22 Okanagan-Similkameen	25	29	22	0	0	76
23 Peace River	18	45	17	0	0	80
24 Powell River	6	13	7	0	0	26
25 Skeena-Queen Charlotte	14	21	8	0	0	43
26 Squamish-Lillooet	21	39	15	1	0	76
27 Stikine	6	11	0	0	0	17
28 Sunshine Coast	13	20	14	1	1	49
29 Thompson-Nicola	37	56	36	11	0	140
30 Fort Nelson/Liard	11	6	3	0	0	20
<b>Metropolitan - Subtotal</b>	<b>86</b>	<b>215</b>	<b>276</b>	<b>79</b>	<b>24</b>	<b>680</b>
3 Capital	54	86	53	22	0	215
16 Greater Vancouver	32	129	223	57	24	465
<b>TOTAL</b>	<b>581</b>	<b>1,218</b>	<b>725</b>	<b>127</b>	<b>25</b>	<b>2,676</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Three Emergency Medical Assistants were excluded from this table due to unknown location.

Prepared by:

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The University of British Columbia



## NATUROPATHIC PHYSICIANS

## NATUROPATHIC PHYSICIANS

**Definition:** A naturopathic physician

is a primary care practitioner who utilizes various methods of diagnostic testing to assist in the treatment and prevention of disease.<sup>1</sup>

Common therapeutic modalities utilized by naturopaths include, but are not limited to:

### NUTRITIONAL COUNSELLING

Specific individual diets including vitamins, mineral and other nutritional supplements to strengthen the body.

### BOTANICAL (Herbal) MEDICINE

Plant substances for their healing effects and nutritional value.

### HOMEOPATHY

Minute amounts of natural substances to stimulate the body's self-healing abilities.

### MANIPULATION

Corrections of stress or trauma-induced misalignments of muscle, connective tissue, and the skeletal system.

### PHYSICAL MEDICINE

The therapeutic use of water, light, electricity, ultra-sound, massage and exercise.

### CHINESE MEDICINE

Includes the use of acupuncture, electrodiagnosis and Chinese herbology.

### PSYCHOLOGICAL SERVICES

Counselling, hypnotherapy, emotional support and biofeedback.<sup>2</sup>

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<sup>1</sup>From information provided by the Association of Naturopathic Physicians of British Columbia

<sup>2</sup>*Questions and Answers about Naturopathic Medicine and Naturopathic Physicians.*



**Governing Statute:** Naturopaths Act, Revised Statutes of British Columbia, 1979, Chapter 297; Health Statutes Amendment Act, 1990, Chapter 51, Section 29; administered by the Ministry of Health.

**Governing Body:** The Association of Naturopathic Physicians of British Columbia. In order to practise as a Naturopathic Physician in British Columbia, it is necessary to be registered by the Association.

**Date of Record:** November 1989 and December 1991.

**Source of Data:** Association of Naturopathic Physicians of British Columbia (ANPBC).

**Preparation and Updating:**

The table, derived from the *Register* supplied by the ANPBC, includes only registered naturopaths in active practice in British Columbia at the date of record. Associate ANPBC members have been excluded from the table since they are not involved in active practice in the province.

**Registered Active Naturopathic Physicians  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=68**

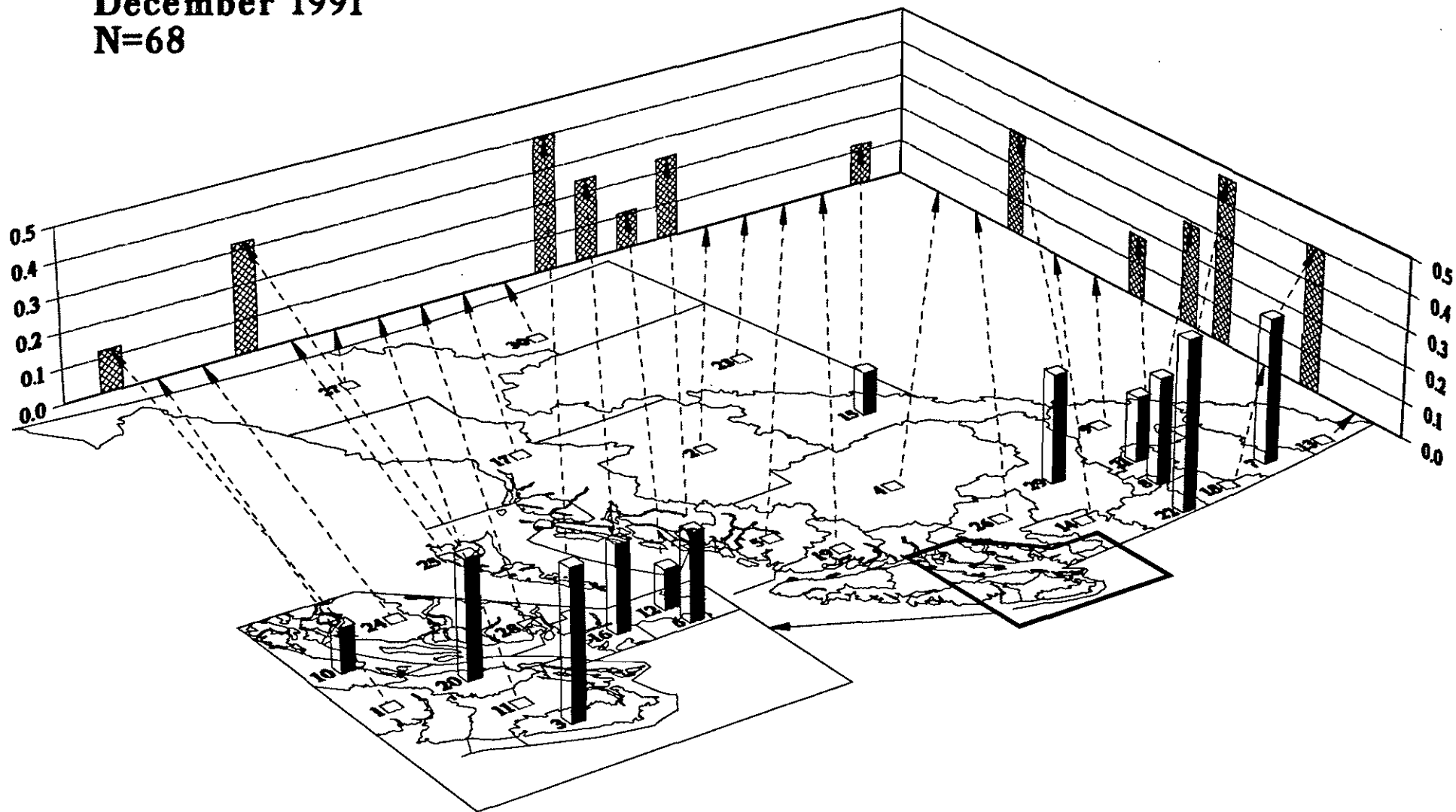


Table 1

**Registered Active Naturopathic Physicians<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**November 1989 and December 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1989	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>17</b>	<b>20</b>	<b>0.13</b>	<b>0.15</b>	<b>8.11</b>	<b>6.21</b>
1 Alberni-Clayoquot	0	0	0.00	0.00	*	*
2 Bulkley-Nechako	0	0	0.00	0.00	*	*
4 Cariboo	0	0	0.00	0.00	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	3	2	0.39	0.24	*	*
7 Central Kootenay	2	2	0.41	0.40	*	*
8 Central Okanagan	3	3	0.31	0.29	*	*
9 Columbia-Shuswap	0	0	0.00	0.00	*	*
10 Comox-Strathcona	0	1	0.00	0.12	*	*
11 Cowichan Valley	0	0	0.00	0.00	*	*
12 Dewdney-Alouette	1	1	0.12	0.11	*	*
13 East Kootenay	0	0	0.00	0.00	*	*
14 Fraser-Cheam	0	0	0.00	0.00	*	*
15 Fraser-Fort George	1	1	0.12	0.12	*	*
17 Kitimat-Stikine	0	0	0.00	0.00	*	*
18 Kootenay Boundary	0	0	0.00	0.00	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	2	3	0.23	0.32	*	*
21 North Okanagan	1	1	0.18	0.18	*	*
22 Okanagan-Similkameen	1	3	0.16	0.47	*	*
23 Peace River	0	0	0.00	0.00	*	*
24 Powell River	0	0	0.00	0.00	*	*
25 Skeena-Queen Charlotte	0	0	0.00	0.00	*	*
26 Squamish-Lillooet	0	0	0.00	0.00	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	0	0	0.00	0.00	*	*
29 Thompson-Nicola	3	3	0.31	0.30	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>44</b>	<b>48</b>	<b>0.25</b>	<b>0.26</b>	<b>4.26</b>	<b>1.49</b>
3 Capital	11	12	0.39	0.40	4.26	1.80
16 Greater Vancouver	33	36	0.23	0.24	4.26	1.43
<b>TOTAL</b>	<b>61</b>	<b>68</b>	<b>0.20</b>	<b>0.21</b>	<b>5.35</b>	<b>2.96</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>A twenty-five month rate of change has been adjusted to an annual figure.

<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.

<sup>4</sup>Rate of change (in percent) in the number.

<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia



## OPTOMETRISTS



## OPTOMETRISTS

**Definition:** An optometrist is

"an independent primary-care health professional who specializes in the diagnosis and treatment of the visual system. Patient management includes: prescribing glasses, contact lenses, vision therapy (orthoptics), low vision aids and monitoring the ocular effects of systemic disease, systemic drugs and therapy and referral for consultation to the appropriate practitioner for the treatment of ocular or systemic disease, or eye surgery."<sup>1</sup>

**Governing Statute:** Optometrists Act, Revised Statutes of British Columbia, 1979, Chapter 307; Health Professions Amendment Act, 1989, Chapter 29, Sections 7-8; administered by the Ministry of Health.

**Governing Body:** British Columbia Association of Optometrists. In order to practise optometry in British Columbia, it is necessary to hold a current and valid licence from The Board of Examiners in Optometry.

**Date of Record:** October 1989 and December 1991.

**Source of Data:** The British Columbia Association of Optometrists.

**Preparation and Updating:**

The table, derived from the *Association Roll* supplied by the British Columbia Association of Optometrists, includes licensed optometrists who reported a British Columbia address at the date of record.

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<sup>1</sup>The British Columbia Association of Optometrists.

**Optometrists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=242**

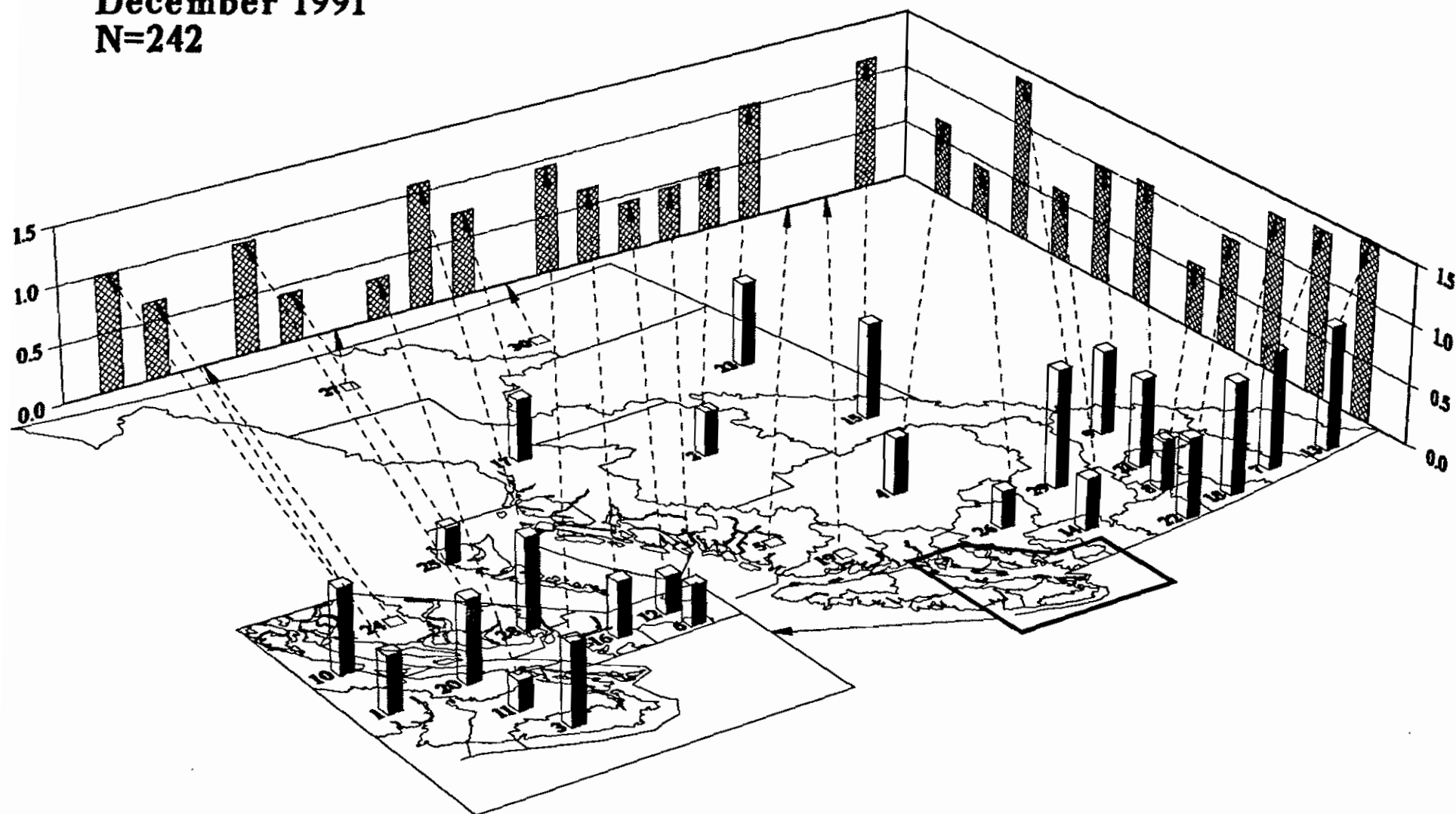




Table 1

Optometrists<sup>1</sup> in British Columbia

## by Regional Hospital District

October 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1989	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>109</b>	<b>115</b>	<b>0.82</b>	<b>0.84</b>	<b>2.50</b>	<b>0.77</b>
1 Alberni-Clayoquot	1	2	0.33	0.66	*	*
2 Bulkley-Nechako	3	2	0.81	0.53	*	*
4 Cariboo	4	4	0.69	0.67	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	6	4	0.78	0.47	*	*
7 Central Kootenay	6	7	1.24	1.40	*	*
8 Central Okanagan	6	6	0.61	0.57	*	*
9 Columbia-Shuswap	5	4	1.26	1.00	*	*
10 Comox-Strathcona	6	8	0.79	0.99	*	*
11 Cowichan Valley	2	2	0.36	0.35	*	*
12 Dewdney-Alouette	4	4	0.49	0.44	*	*
13 East Kootenay	8	7	1.64	1.48	*	*
14 Fraser-Cheam	4	4	0.64	0.60	*	*
15 Fraser-Fort George	8	10	0.93	1.15	*	*
17 Kitimat-Stikine	2	3	0.51	0.74	*	*
18 Kootenay Boundary	3	4	1.01	1.33	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	7	9	0.79	0.96	*	*
21 North Okanagan	3	6	0.53	1.05	*	*
22 Okanagan-Similkameen	6	6	0.97	0.94	*	*
23 Peace River	6	5	1.22	1.02	*	*
24 Powell River	1	0	0.55	0.00	*	*
25 Skeena-Queen Charlotte	2	1	0.87	0.43	*	*
26 Squamish-Lillooet	1	1	0.47	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	2	2	1.12	1.08	*	*
29 Thompson-Nicola	13	14	1.33	1.40	3.48	2.53
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>118</b>	<b>127</b>	<b>0.68</b>	<b>0.70</b>	<b>3.45</b>	<b>0.80</b>
3 Capital	24	28	0.85	0.94	7.37	4.94
16 Greater Vancouver	94	99	0.65	0.65	2.42	-0.26
<b>TOTAL</b>	<b>227</b>	<b>242</b>	<b>0.74</b>	<b>0.76</b>	<b>3.00</b>	<b>0.74</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>A twenty-six month rate of change has been adjusted to an annual figure.<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.<sup>4</sup>Rate of change (in percent) in the number.<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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## OSTEOPATHS

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**Definition:** An osteopath

"diagnoses disorders of human body and treats them with emphasis on manipulative therapy. Examines, questions and observes patient to diagnose disorder. Performs or orders blood analysis, urinalysis, electrocardiogram, X-rays and other tests to aid in diagnosis. Treats disorders of musculo-skeletal, circulatory and nervous systems, using manipulative therapy and medical procedures. Prescribes medication and performs minor surgery where permitted by provincial legislation."<sup>1</sup>

**Governing Statute:** Medical Practitioners Act, Revised Statutes of British Columbia, 1979, Chapter 254; Health Statutes Amendment Act, 1990, Chapter 51, Sections 20-24; administered by the Ministry of Health.

**Governing Body:** The College of Physicians and Surgeons of British Columbia. In order to practise osteopathic medicine in British Columbia, it is necessary to be registered by the College of Physicians and Surgeons of British Columbia under Section 37 of the *Medical Practitioners Act*.

**Date of Record:** September 1989 and January 1992.

**Source of Data:** College of Physicians and Surgeons of British Columbia.

**Preparation and Updating:**

Osteopath data are provided by the College of Physicians and Surgeons of British Columbia and stored in DOCSFILE, a dynamic computer-based file maintained by the HHRU.

The table includes osteopaths who reported a British Columbia address at the date of record.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980.*

Major Group 31, No. 3117-114, p. 51, Ottawa: Employment and Immigration Canada.

Table 1

**Osteopaths<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**September 1989 and January 1992**

<u>Regional Hospital District</u>	<u>Total</u>	
	<u>1989</u>	<u>1992</u>
Non-Metropolitan - Subtotal	1	1
22 Okanagan-Similkameen	1	1
Metropolitan - Subtotal	3	3
03 Capital	3	3
16 Greater Vancouver	0	0
TOTAL	4	4

<sup>1</sup>Definitions are as in the attached text.

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## PHARMACISTS

## PHARMACISTS

**Definition:** A pharmacist

is responsible for the compounding, preparation and dispensing of a prescribed drug, the monitoring of drug therapy and use, the release of the drug to the patient with appropriate consultation, the safe and proper storage of the drug both within and without the pharmacy, and the distribution of specified non-prescription medications.<sup>1</sup>

**Governing Statute:** Pharmacists Act, Revised Statutes of British Columbia, 1979, Chapter 326, Sections 1-48 and 56-66; administered by the Ministry of Health.

**Governing Body:** The College of Pharmacists of British Columbia (CPBC). In order to practise as a pharmacist in British Columbia, it is necessary to be registered by the College.

**Date of Record:** December 1989 and December 1991.

**Source of Data:** The College of Pharmacists of British Columbia.

**Preparation and Updating:**

Tables 1, 2, and 5 have been prepared from registration data maintained by the CPBC and include licensed pharmacists who reported a British Columbia address at the date of record. Information reported in Tables 3 and 4 is derived from surveys conducted by the CPBC in conjunction with their annual registration process.

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<sup>1</sup>From information provided by the College of Pharmacists of British Columbia.



## Definition of Terms:

### 1. Age and Sex

Age and sex information on pharmacists is shown in Table 2. Age information is grouped according to standard age categories developed and used by Statistics Canada.

### 2. Employment Status and Type of Position

Position of pharmaceutical employment is aggregated into the following categories and displayed in Tables 3 and 4:

(a) Employed in Pharmacy and working either in hospitals or in community pharmacies;

(i) Manager - dispensing

- who have and can confer upon others narcotic signing authority

(ii) Non-manager - dispensing

- who may have narcotic signing authority but who cannot confer it upon others

(b) Not Employed in Pharmacy.

### 3. Analysis of Change

Table 5 illustrates the sources of change which affected the stock of pharmacists from December 1989 to December 1991.

*New registrants* are pharmacists included in the December 1991 stock who registered with the College of Pharmacists of B.C. for the first time subsequent to December 1989. New registrants are recorded according to their place of graduation: i.e., from U.B.C., Other Canadian Provinces (O.Can.), or Other.

*Re-activations* (Re-Act) represent those pharmacists who did not renew their licence in B.C. in December 1989, but were licensed in B.C. in December 1991, and whose date of initial registration was before December 1989.

*Attrition* (Attr'n) describes pharmacists who were included in the December 1989 stock but who, because of death, retirement, suspension, out-of-province relocation or non-renewal of licensure were not included in the December 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration: it records the flow of pharmacists among different Regional Hospital Districts. The net migration total is therefore zero.

**Pharmacists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=2418**

184

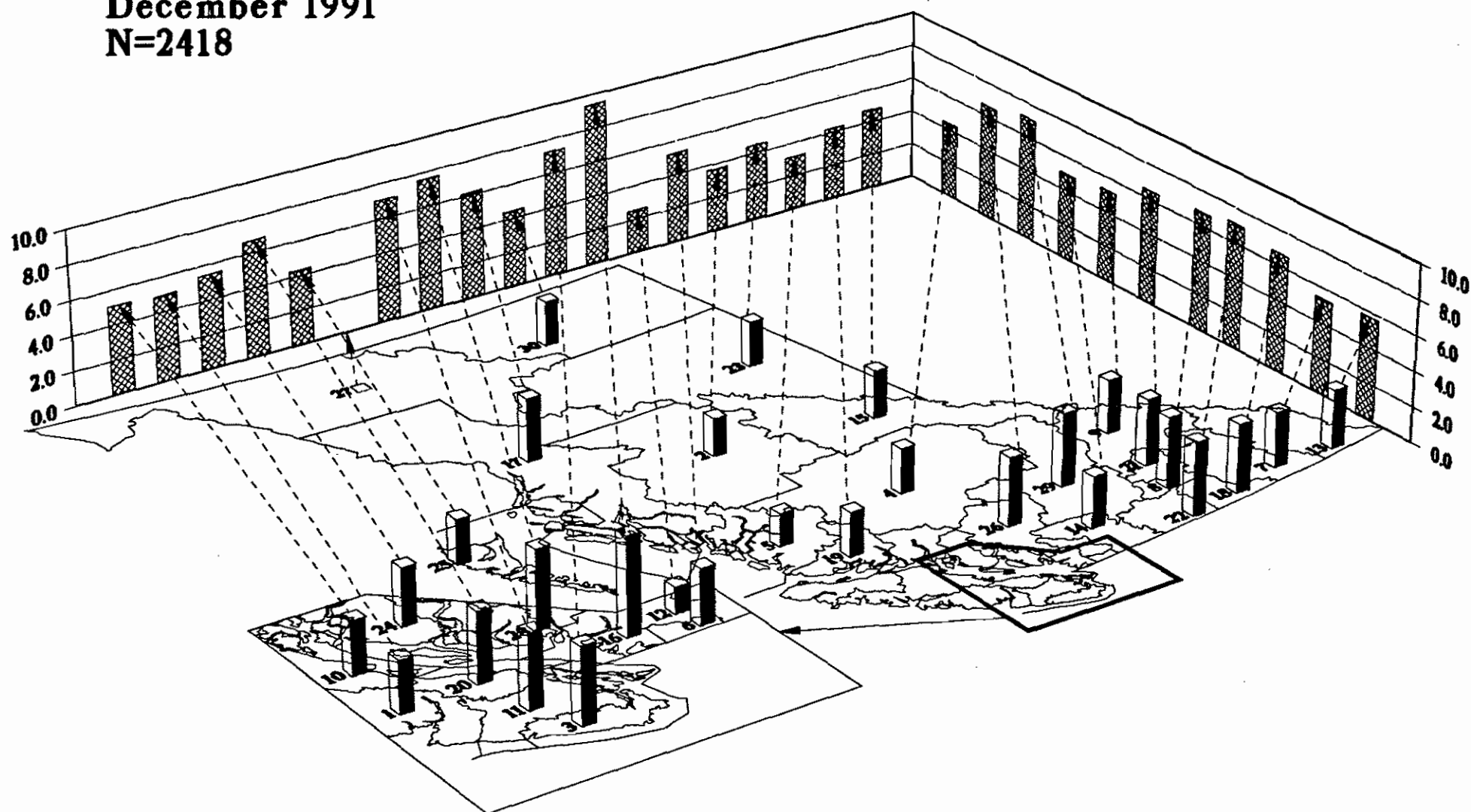


Table 1

**Pharmacists<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1989 and December 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>3</sup>	
	1989	1991	1989 <sup>2</sup>	1991	Number	Ratio
<b>Non-Metropolitan - Subtotal</b>	<b>725</b>	<b>772</b>	<b>5.47</b>	<b>5.52</b>	<b>3.19</b>	<b>0.47</b>
1 Alberni-Clayoquot	15	15	5.01	4.97	0.00	-0.43
2 Bulkley-Nechako	13	14	3.51	3.74	3.77	3.21
4 Cariboo	24	28	4.12	4.80	8.01	7.93
5 Central Coast	1	2	3.13	6.36	*	*
6 Central Fraser Valley	42	42	5.49	4.97	0.00	-4.83
7 Central Kootenay	30	29	6.18	5.69	-1.68	-4.11
8 Central Okanagan	63	73	6.44	6.69	7.64	1.85
9 Columbia-Shuswap	20	21	5.04	5.08	2.47	0.35
10 Comox-Strathcona	40	42	5.23	5.15	2.47	-0.82
11 Cowichan Valley	33	42	5.98	7.07	12.82	8.74
12 Dewdney-Alouette	22	22	2.67	2.47	0.00	-3.93
13 East Kootenay	26	26	5.34	5.37	0.00	0.25
14 Fraser-Cheam	35	31	5.56	4.50	-5.89	-10.04
15 Fraser-Fort George	37	40	4.29	4.65	3.98	4.11
17 Kitimat-Stikine	24	24	6.12	6.08	0.00	-0.38
18 Kootenay Boundary	16	21	5.36	6.77	14.56	12.34
19 Mount Waddington	3	5	2.11	3.67	*	*
20 Nanaimo	66	62	7.47	6.37	-3.08	-7.69
21 North Okanagan	35	37	6.23	6.19	2.82	-0.34
22 Okanagan-Similkameen	45	48	7.27	7.23	3.28	-0.27
23 Peace River	20	23	4.05	4.47	7.24	4.98
24 Powell River	9	10	4.95	5.35	*	*
25 Skeena-Queen Charlotte	10	12	4.37	5.16	9.54	8.71
26 Squamish-Lillooet	15	14	7.00	6.36	-3.39	-4.70
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	11	14	6.16	6.98	12.82	6.49
29 Thompson-Nicola	68	73	6.95	7.27	3.61	2.29
30 Fort Nelson/Liard	2	2	4.27	3.98	*	*
<b>Metropolitan - Subtotal</b>	<b>1,560</b>	<b>1,667</b>	<b>9.03</b>	<b>9.19</b>	<b>3.37</b>	<b>0.86</b>
3 Capital	210	226	7.42	7.58	3.74	1.10
16 Greater Vancouver	1,350	1,441	9.35	9.50	3.32	0.83
<b>TOTAL</b>	<b>2,285</b>	<b>2,439</b>	<b>7.48</b>	<b>7.59</b>	<b>3.31</b>	<b>0.71</b>

<sup>1</sup> Definitions are as in the attached text.

<sup>2</sup> These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

<sup>3</sup> Rate of change (in percent) in the number and in the number per 10,000 population.

\* Indicates that the base for the rate of change is less than 10.

Table 2

**Pharmacists in British Columbia**  
**by Regional Hospital District by Age and Sex**  
**December 1991**

Regional Hospital District	< 25		25-34		35-44		45-54		55-64		65 +		Subtotal		Unknown	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>18</b>	<b>18</b>	<b>106</b>	<b>117</b>	<b>123</b>	<b>112</b>	<b>99</b>	<b>31</b>	<b>83</b>	<b>13</b>	<b>28</b>	<b>2</b>	<b>457</b>	<b>293</b>	<b>22</b>	<b>772</b>
1 Alberni-Clayoquot	0	0	1	2	4	3	3	1	1	0	0	0	9	6	0	15
2 Bulkley-Nechako	0	1	2	1	3	1	6	0	0	0	0	0	11	3	0	14
4 Cariboo	3	2	7	1	4	1	4	2	3	1	0	0	21	7	0	28
5 Central Coast	0	0	2	0	0	0	0	0	0	0	0	0	2	0	0	2
6 Central Fraser Valley	0	0	3	10	12	8	2	2	3	0	1	1	21	21	0	42
7 Central Kootenay	0	0	4	3	4	6	5	1	2	1	1	0	16	11	2	29
8 Central Okanagan	2	0	6	8	16	14	12	1	9	0	3	0	48	23	2	73
9 Columbia-Shuswap	1	0	7	4	2	2	1	0	3	0	0	0	14	6	1	21
10 Comox-Strathcona	0	0	8	10	7	6	2	1	3	1	3	0	23	18	1	42
11 Cowichan Valley	2	2	3	6	5	6	7	4	1	2	2	0	20	20	2	42
12 Dewdney-Alouette	0	0	2	4	2	6	4	0	1	0	2	0	11	10	1	22
13 East Kootenay	0	2	4	2	4	4	2	3	2	1	0	0	12	12	2	26
14 Fraser-Chem	0	0	4	6	3	2	4	1	8	2	1	0	20	11	0	31
15 Fraser-Fort George	0	3	4	10	4	6	3	2	4	0	3	0	18	21	1	40
17 Kitimat-Stikine	1	3	7	4	0	2	5	1	1	0	0	0	14	10	0	24
18 Kootenay Boundary	0	2	3	4	1	3	1	0	6	1	0	0	11	10	0	21
19 Mount Waddington	0	0	2	1	0	0	2	0	0	0	0	0	4	1	0	5
20 Nanaimo	1	0	14	6	11	11	5	1	7	0	3	1	41	19	2	62
21 North Okanagan	0	0	4	5	8	5	6	0	4	0	2	0	24	10	3	37
22 Okanagan-Similkameen	0	1	5	1	9	6	8	3	7	3	4	0	33	14	1	48
23 Peace River	2	1	3	3	4	3	3	2	2	0	0	0	14	9	0	23
24 Powell River	0	0	0	3	0	2	4	0	0	1	0	0	4	6	0	10
25 Skeena-Queen Charlotte	2	0	4	2	2	1	1	0	0	0	0	0	9	3	0	12
26 Squamish-Lillooet	0	0	1	4	1	3	0	0	3	0	1	0	6	7	1	14
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	1	2	2	3	1	4	0	0	0	10	4	0	14
29 Thompson-Nicola	3	1	6	16	14	8	6	5	9	0	2	0	40	30	3	73
30 Fort Nelson/Liard	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2
<b>Metropolitan - Subtotal</b>	<b>35</b>	<b>63</b>	<b>204</b>	<b>343</b>	<b>290</b>	<b>264</b>	<b>113</b>	<b>99</b>	<b>125</b>	<b>29</b>	<b>50</b>	<b>9</b>	<b>817</b>	<b>807</b>	<b>43</b>	<b>1,667</b>
3 Capital	4	3	26	32	47	28	22	16	24	5	11	1	134	85	7	226
16 Greater Vancouver	31	60	178	311	243	236	91	83	101	24	39	8	683	722	36	1,441
<b>TOTAL</b>	<b>53</b>	<b>81</b>	<b>310</b>	<b>460</b>	<b>413</b>	<b>376</b>	<b>212</b>	<b>130</b>	<b>208</b>	<b>42</b>	<b>78</b>	<b>11</b>	<b>1,274</b>	<b>1,100</b>	<b>65</b>	<b>2,439</b>

Table 3

**Pharmacists in British Columbia**  
**by Regional Hospital District by Employment Status and Type of Employer**  
**December 1991**

Regional Hospital District	Employed in Pharmacy				Not Employed in Pharmacy	Total
	Community Pharmacy	Hospital Pharmacy	Other	Subtotal		
<b>Non-Metropolitan - Subtotal</b>	<b>574</b>	<b>125</b>	<b>9</b>	<b>708</b>	<b>64</b>	<b>772</b>
1 Alberni-Clayoquot	11	2	0	13	2	15
2 Bulkley-Nechako	13	1	0	14	0	14
4 Cariboo	22	4	0	26	2	28
5 Central Coast	0	2	0	2	0	2
6 Central Fraser Valley	31	8	1	40	2	42
7 Central Kootenay	23	4	0	27	2	29
8 Central Okanagan	54	12	0	66	7	73
9 Columbia-Shuswap	14	6	0	20	1	21
10 Comox-Strathcona	30	7	2	39	3	42
11 Cowichan Valley	32	5	0	37	5	42
12 Dewdney-Alouette	13	4	2	19	3	22
13 East Kootenay	18	5	0	23	3	26
14 Fraser-Cheam	23	4	2	29	2	31
15 Fraser-Fort George	26	9	0	35	5	40
17 Kitimat-Stikine	20	4	0	24	0	24
18 Kootenay Boundary	18	3	0	21	0	21
19 Mount Waddington	4	0	0	4	1	5
20 Nanaimo	52	5	0	57	5	62
21 North Okanagan	27	4	1	32	5	37
22 Okanagan-Similkameen	36	7	0	43	5	48
23 Peace River	17	5	0	22	1	23
24 Powell River	8	1	0	9	1	10
25 Skeena-Queen Charlotte	10	2	0	12	0	12
26 Squamish-Lillooet	13	1	0	14	0	14
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	12	1	0	13	1	14
29 Thompson-Nicola	45	19	1	65	8	73
30 Fort Nelson/Liard	2	0	0	2	0	2
<b>Metropolitan - Subtotal</b>	<b>1,026</b>	<b>345</b>	<b>64</b>	<b>1,435</b>	<b>232</b>	<b>1,667</b>
3 Capital	153	48	4	205	21	226
16 Greater Vancouver	873	297	60	1,230	211	1,441
<b>TOTAL</b>	<b>1,600</b>	<b>470</b>	<b>73</b>	<b>2,143</b>	<b>296</b>	<b>2,439</b>

Table 4

**Pharmacists in British Columbia**  
**by Regional Hospital District by Employment Status and Type of Position**  
**December 1991**

Regional Hospital District	Employed in Pharmacy				Not Employed in Pharmacy	Total
	Dispensing Pharmacist		Other	Subtotal		
	Manager	Non-Manager				
<b>Non-Metropolitan - Subtotal</b>	<b>286</b>	<b>414</b>	<b>8</b>	<b>708</b>	<b>64</b>	<b>772</b>
1 Alberni-Clayoquot	8	5	0	13	2	15
2 Bulkley-Nechako	9	5	0	14	0	14
4 Cariboo	12	14	0	26	2	28
5 Central Coast	2	0	0	2	0	2
6 Central Fraser Valley	14	25	1	40	2	42
7 Central Kootenay	12	15	0	27	2	29
8 Central Okanagan	20	46	0	66	7	73
9 Columbia-Shuswap	8	12	0	20	1	21
10 Comox-Strathcona	14	23	2	39	3	42
11 Cowichan Valley	13	24	0	37	5	42
12 Dewdney-Alouette	9	8	2	19	3	22
13 East Kootenay	11	12	0	23	3	26
14 Fraser-Cheam	13	14	2	29	2	31
15 Fraser-Fort George	13	22	0	35	5	40
17 Kitimat-Stikine	10	14	0	24	0	24
18 Kootenay Boundary	8	13	0	21	0	21
19 Mount Waddington	3	1	0	4	1	5
20 Nanaimo	21	36	0	57	5	62
21 North Okanagan	11	21	0	32	5	37
22 Okanagan-Similkameen	18	25	0	43	5	48
23 Peace River	11	11	0	22	1	23
24 Powell River	4	5	0	9	1	10
25 Skeena-Queen Charlotte	6	6	0	12	0	12
26 Squamish-Lillooet	7	7	0	14	0	14
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	7	6	0	13	1	14
29 Thompson-Nicola	21	43	1	65	8	73
30 Fort Nelson/Liard	1	1	0	2	0	2
<b>Metropolitan - Subtotal</b>	<b>424</b>	<b>949</b>	<b>62</b>	<b>1,435</b>	<b>232</b>	<b>1,667</b>
3 Capital	75	126	4	205	21	226
16 Greater Vancouver	349	823	58	1,230	211	1,441
<b>TOTAL</b>	<b>710</b>	<b>1,363</b>	<b>70</b>	<b>2,143</b>	<b>296</b>	<b>2,439</b>

Table 5

**Analysis of Change in the Number of Pharmacists in British Columbia**  
**by Regional Hospital District**  
**December 1989 to December 1991**

Regional Hospital District	December 1989	New Registrants <sup>1</sup> by Place of Graduation					Reactivation <sup>2</sup>	Attrition <sup>3</sup>	Net Intra-provincial Migration	December 1991
		B.C.	Other Canada	Other Country	Unknown	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>725</b>	<b>67</b>	<b>21</b>	<b>4</b>	<b>1</b>	<b>93</b>	<b>14</b>	<b>56</b>	<b>-4</b>	<b>772</b>
1 Alberni-Clayoquot	15	1	0	0	0	1	0	0	-1	15
2 Bulkley-Nechako	13	1	0	0	0	1	0	1	1	14
4 Cariboo	24	8	0	0	0	8	1	0	-5	28
5 Central Coast	1	1	0	0	0	1	0	0	0	2
6 Central Fraser Valley	42	2	1	0	0	3	0	6	3	42
7 Central Kootenay	30	1	0	0	0	1	0	2	0	29
8 Central Okanagan	63	2	3	0	1	6	5	5	4	73
9 Columbia-Shuswap	20	2	1	0	0	3	0	3	1	21
10 Comox-Strathcona	40	4	3	1	0	8	0	7	1	42
11 Cowichan Valley	33	4	2	1	0	7	1	2	3	42
12 Dewdney-Alouette	22	0	1	0	0	1	1	2	0	22
13 East Kootenay	26	3	1	0	0	4	0	0	-4	26
14 Fraser-Chem	35	2	0	0	0	2	1	2	-5	31
15 Fraser-Fort George	37	6	1	0	0	7	1	3	-2	40
17 Kitimat-Stikine	24	7	0	0	0	7	1	2	-6	24
18 Kootenay Boundary	16	2	1	0	0	3	0	0	2	21
19 Mount Waddington	3	1	0	0	0	1	0	1	2	5
20 Nanaimo	66	3	1	0	0	4	0	7	-1	62
21 North Okanagan	35	0	2	0	0	2	1	2	1	37
22 Okanagan-Similkameen	45	2	1	0	0	3	0	4	4	48
23 Peace River	20	4	1	0	0	5	0	1	-1	23
24 Powell River	9	1	0	0	0	1	0	1	1	10
25 Skeena-Queen Charlotte	10	4	0	0	0	4	0	0	-2	12
26 Squamish-Lillooet	15	0	0	0	0	0	0	0	-1	14
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	11	1	1	0	0	2	0	0	1	14
29 Thompson-Nicola	68	5	1	2	0	8	2	5	0	73
30 Fort Nelson/Liard	2	0	0	0	0	0	0	0	0	2
<b>Metropolitan - Subtotal</b>	<b>1,560</b>	<b>159</b>	<b>39</b>	<b>10</b>	<b>5</b>	<b>213</b>	<b>31</b>	<b>141</b>	<b>4</b>	<b>1,667</b>
3 Capital	210	14	4	0	2	20	8	21	9	226
16 Greater Vancouver	1,350	145	35	10	3	193	23	120	-5	1,441
<b>TOTAL</b>	<b>2,285</b>	<b>226</b>	<b>60</b>	<b>14</b>	<b>6</b>	<b>306</b>	<b>45</b>	<b>197</b>	<b>0</b>	<b>2,439</b>

<sup>1</sup> Pharmacists who reported B.C. addresses and were registered in December 1991 and whose date of initial registration was after December 1989.

<sup>2</sup> Pharmacists who reported B.C. addresses and were registered in December 1991 but not in December 1989 and who were registered for the first time before December 1989.

<sup>3</sup> Pharmacists who reported B.C. addresses and were registered in December 1989 but not in December 1991.





## PHYSICIANS



## PHYSICIANS

**Definition:** A physician in general practice

"diagnoses and treats diseases, disorders and injuries of the human body.

Questions and examines patient. Orders and performs laboratory tests, X-rays and other diagnostic procedures. Analyzes reports and findings of tests, X-rays and examination to diagnose condition. Prescribes and administers treatments and drugs. Prescribes physiotherapy and other remedial treatments. Inoculates and vaccinates patient to prevent communicable diseases. Advises patients to follow good diet, exercise and other health habits to aid in prevention of disease and disorders. Provides pre- and post-natal care, and delivers babies. Reports births, deaths and contagious diseases to governmental authorities. Refers patient to specialists, and assists in surgical procedures. Conducts insurance and pre-employment physical examinations. Performs surgery, if required."<sup>1</sup>

**Governing Statute:** Medical Practitioners Act, Revised Statutes of British Columbia, 1979, Chapter 254; Health Statutes Amendment Act, 1990, Chapter 51, Sections 20-24; administered by the Ministry of Health.

**Governing Body:** The College of Physicians and Surgeons of British Columbia (CPSBC). In order to practise medicine in British Columbia, it is necessary to be registered by the CPSBC.

**Date of Record:** September 1989 and January 1992.

**Sources of Data:** The College of Physicians and Surgeons of British Columbia, Medical Services Commission of British Columbia (MSC), and teaching hospitals and institutions in British Columbia.

**Preparation and Updating:**

An update tape is received by the Health Human Resources Unit from the CPSBC on a monthly basis. Included on the tape are new registrants, changes in location, type of registration and specialty status for all physicians previously registered. These updates are entered into *DOCSFILE*, a dynamic computer-based file maintained by the HHRU.

An additional file, *RESFILE*, is maintained with the cooperation of the teaching hospitals and educational institutions, to register and monitor the movement of interns and residents.

The tables include physicians who had a British Columbia address at the date of record.

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<sup>1</sup>Canadian Classification and Dictionary of Occupations 1980.

Major Group 31, No. 3111-166, p. 49, Ottawa: Employment and Immigration Canada.

**Definition of Terms:****1. Directory Active Physicians**

Directory Active Physicians are registered in British Columbia by the CPSBC. At the date of record, they were licensed to practise medicine. Directory Active includes physicians who are on the full, special or temporary registers (temporary includes those who are in postgraduate training or who have a temporary licence to practise).

**2. Registration Status**

Tables 1, 2 and 3 include those physicians who, at the date of record, were Directory Active:

**Non-Postgraduate**

Non-Postgraduates are Directory Active Physicians who, according to the records of the CPSBC, are not involved in postgraduate work.

**Postgraduate**

Postgraduates are Directory Active Physicians who, according to the records of the CPSBC, are involved in postgraduate work. They may be fully registered or on the temporary (educational) register.

**3. Age and Sex**

Age and sex information on non-postgraduate physicians is shown in Table 4. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

**4. Specialty**

Those physicians who are not in postgraduate training have been assigned to a specialty in the following manner:

- (a) The MSC specialty code, based on billings volume and developed to assess practice profiles, is used unless:
  - (i) the physician has certification in *Family Medicine* from the College of Family Physicians of Canada, in which case the *specialty* is coded as *Family Practice*,
  - (ii) the physician has no MSC specialty, in which case the most recent Royal College of Physicians and Surgeons of Canada (RCPSC) specialty will be used.
- (b) The MSC specialty code may not necessarily reflect the actual MSC specialty field at the date of record. For September 1989, the MSC specialty codes for September 1988 were used, while for January 1992, the MSC specialty codes for December 1991 were used.

Tables 5, 6 and 7 group the physicians into broad specialty groups; Tables 8 and 9 disaggregate them.

### General Practice

This category includes the MSC specialty code:

- 00 General Practice  
and also physicians with certification in *Family Medicine*.

### Clinical Specialties

This category includes the MSC specialty codes:

- 01 Dermatology
- 02 Neurology
- 03 Psychiatry
- 04 Neuropsychiatry
- 14 Paediatrics
- 15 Internal Medicine
- 16 Radiology
- 18 Anaesthesia
- 20 Physical Medicine and Rehabilitation
- 21 Community Medicine
- 33 Nuclear Medicine

and the following RCPSC specialties:

- Anaesthesia
- Cardiology
- Clinical Immunology
- Community Medicine
- Dermatology
- Dermatology and Syphilology<sup>2</sup>
- Diagnostic Radiology
- Emergency Medicine
- Gastroenterology
- Geriatric Medicine
- Haematology
- Internal Medicine
- Internal Medicine, T.B.<sup>2</sup>
- Nephrology
- Neurology
- Nuclear Medicine
- Paediatrics
- Paediatric Cardiology

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<sup>2</sup>Program no longer offered by the RCPSC under this designation.

Physical Medicine and Rehabilitation  
 Psychiatry  
 Public Health<sup>2</sup>  
 Radiation Oncology  
 Respiratory Medicine  
 Rheumatology  
 Therapeutic Radiology<sup>2</sup>

### **Laboratory Medicine Specialties**

This category includes the MSC specialty codes:

17 Pathology and Bacteriology  
 29 Medical Microbiology

and the following RCPSC specialties:

Anatomical Pathology  
 Bacteriology<sup>3</sup>  
 General Pathology  
 Haematological Pathology  
 Medical Biochemistry  
 Medical Microbiology  
 Neuropathology  
 Pathology<sup>3</sup>

### **Surgical Specialties**

This category includes the MSC specialty codes:

05 Obstetrics and Gynaecology  
 06 Ophthalmology  
 07 Otolaryngology  
 08 General Surgery  
 09 Neurosurgery  
 10 Orthopaedic Surgery  
 11 Plastic Surgery  
 12 Thoracic and Cardiovascular Surgery  
 13 Urology  
 19 Otolaryngology and Ophthalmology

and the comparable RCPSC specialties with the addition of:

Paediatric General Surgery  
 Vascular Surgery

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<sup>3</sup>Program no longer offered by the RCPSC under this designation.

#### 4. Analysis of Change

Table 10 illustrates key sources of change which may have affected the stock of non-postgraduate physicians from 1989 to 1992.

*New registrants* include physicians who registered for the first time subsequent to September 1989 and were licensed to practise in January 1992. They are recorded according to their place of graduation i.e., from U.B.C., Other Canadian Provinces (O.Can.), the United Kingdom (U.K.), or Other.

*Re-activations* (Re-Act) include those physicians who, in 1989, were registered but not licensed to practise in B.C. and who were licensed to practise in B.C. in 1992. More specifically, those designated *PG to Non-PG* (PG-NPG) were registered as of September 1989 and were engaged in postgraduate work. In January 1992 they held non-postgraduate status and were licensed to practise in the province. *Other* includes Directory Active physicians who were out-of-province, or physicians who were not licensed to practise in B.C. as of September 1989, but who were licensed to practise in B.C. in January 1992.

*Attrition* (Attr'n) describes those physicians who were included in the 1989 physician stock but who, because of death, retirement, non-renewal of licence or out-of-province relocation, were not included in the 1992 physician stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of physicians among different regions of the province. The net migration total is therefore zero.

**Directory Active Physicians  
per 10,000 Population  
by Regional Hospital District  
January 1992  
N=7596**

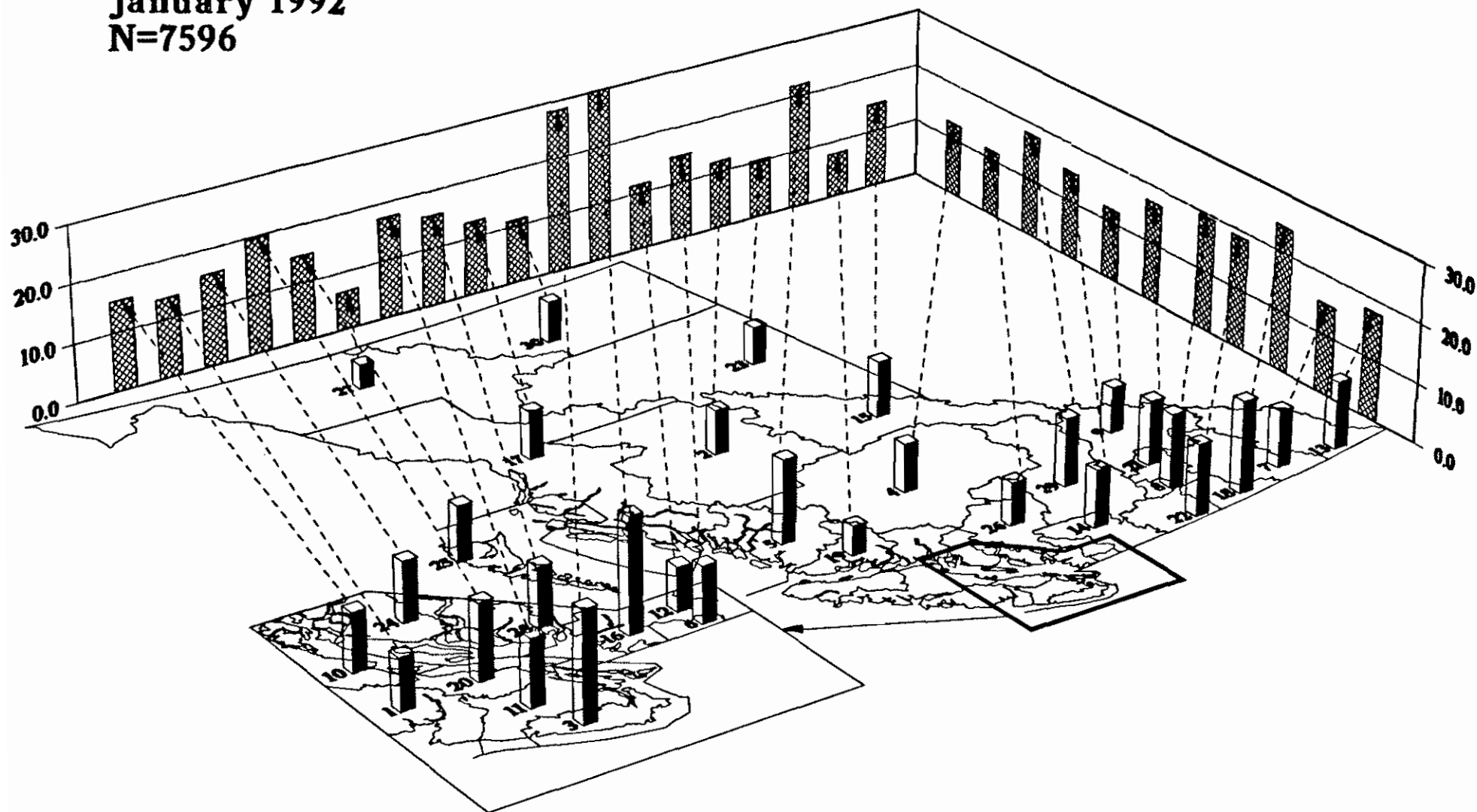




Table 1

**Directory Active Physicians<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Registration Status**  
**September 1989 and January 1992**

Regional Hospital District	Non-Postgraduate		Postgraduate		Total	
	1989	1992	1989	1992	1989	1992
<b>Non-Metropolitan - Subtotal</b>	<b>1,955</b>	<b>2,146</b>	<b>6</b>	<b>14</b>	<b>1,961</b>	<b>2,160</b>
1 Alberni-Clayoquot	40	41	0	0	40	41
2 Bulkley-Nechako	44	45	0	0	44	45
4 Cariboo	68	75	0	1	68	76
5 Central Coast	4	6	1	1	5	7
6 Central Fraser Valley	116	125	0	1	116	126
7 Central Kootenay	68	75	0	1	68	76
8 Central Okanagan	173	202	1	1	174	203
9 Columbia-Shuswap	46	49	0	0	46	49
10 Comox-Strathcona	114	123	0	0	114	123
11 Cowichan Valley	84	99	0	0	84	99
12 Dewdney-Alouette	91	105	0	0	91	105
13 East Kootenay	77	84	0	1	77	85
14 Fraser-Cheam	83	99	0	2	83	101
15 Fraser-Fort George	125	130	1	0	126	130
17 Kitimat-Stikine	48	52	2	0	50	52
18 Kootenay Boundary	60	73	1	0	61	73
19 Mount Waddington	13	10	0	1	13	11
20 Nanaimo	160	184	0	2	160	186
21 North Okanagan	89	98	0	0	89	98
22 Okanagan-Similkameen	111	120	0	0	111	120
23 Peace River	52	50	0	0	52	50
24 Powell River	28	29	0	0	28	29
25 Skeena-Queen Charlotte	33	33	0	1	33	34
26 Squamish-Lillooet	25	26	0	0	25	26
27 Stikine	1	1	0	0	1	1
28 Sunshine Coast	26	28	0	1	26	29
29 Thompson-Nicola	172	179	0	1	172	180
30 Fort Nelson/Liard	4	5	0	0	4	5
<b>Metropolitan - Subtotal</b>	<b>4,504</b>	<b>4,773</b>	<b>628</b>	<b>663</b>	<b>5,132</b>	<b>5,436</b>
3 Capital	758	809	27	34	785	843
16 Greater Vancouver	3,746	3,964	601	629	4,347	4,593
<b>TOTAL</b>	<b>6,459</b>	<b>6,919</b>	<b>634</b>	<b>677</b>	<b>7,093</b>	<b>7,596</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 2

Directory Active Physicians<sup>1</sup> in British Columbia  
per 10,000 Population by Regional Hospital District by Registration Status  
September 1989 and January 1992

Regional Hospital District	Non-Postgraduate		Postgraduate		Total	
	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992
<b>Non-Metropolitan - Subtotal</b>	<b>14.74</b>	<b>15.59</b>	<b>0.05</b>	<b>0.10</b>	<b>14.79</b>	<b>15.69</b>
1 Alberni-Clayoquot	13.36	13.52	0.00	0.00	13.36	13.52
2 Bulkley-Nechako	11.88	11.87	0.00	0.00	11.88	11.87
4 Cariboo	11.66	12.62	0.00	0.17	11.66	12.79
5 Central Coast	12.54	18.87	3.13	3.14	15.67	22.01
6 Central Fraser Valley	15.16	14.70	0.00	0.12	15.16	14.81
7 Central Kootenay	14.02	14.95	0.00	0.20	14.02	15.15
8 Central Okanagan	17.70	19.34	0.10	0.10	17.80	19.44
9 Columbia-Shuswap	11.60	12.26	0.00	0.00	11.60	12.26
10 Comox-Strathcona	14.92	15.25	0.00	0.00	14.92	15.25
11 Cowichan Valley	15.22	17.44	0.00	0.00	15.22	17.44
12 Dewdney-Alouette	11.05	11.53	0.00	0.00	11.05	11.53
13 East Kootenay	15.83	17.72	0.00	0.21	15.83	17.93
14 Fraser-Cheam	13.19	14.92	0.00	0.30	13.19	15.22
15 Fraser-Fort George	14.49	14.95	0.12	0.00	14.61	14.95
17 Kitimat-Stikine	12.25	12.83	0.51	0.00	12.76	12.83
18 Kootenay Boundary	20.12	24.34	0.34	0.00	20.45	24.34
19 Mount Waddington	9.16	7.06	0.00	0.71	9.16	7.76
20 Nanaimo	18.12	19.60	0.00	0.21	18.12	19.82
21 North Okanagan	15.84	17.17	0.00	0.00	15.84	17.17
22 Okanagan-Similkameen	17.93	18.89	0.00	0.00	17.93	18.89
23 Peace River	10.54	10.21	0.00	0.00	10.54	10.21
24 Powell River	15.40	15.78	0.00	0.00	15.40	15.78
25 Skeena-Queen Charlotte	14.41	14.26	0.00	0.43	14.41	14.69
26 Squamish-Lillooet	11.67	11.49	0.00	0.00	11.67	11.49
27 Stikine	6.32	6.56	0.00	0.00	6.32	6.56
28 Sunshine Coast	14.55	15.16	0.00	0.54	14.55	15.70
29 Thompson-Nicola	17.57	17.92	0.00	0.10	17.57	18.02
30 Fort Nelson/Liard	8.53	11.11	0.00	0.00	8.53	11.11
<b>Metropolitan - Subtotal</b>	<b>26.08</b>	<b>26.13</b>	<b>3.64</b>	<b>3.63</b>	<b>29.72</b>	<b>29.76</b>
3 Capital	26.78	27.20	0.95	1.14	27.73	28.34
16 Greater Vancouver	25.94	25.92	4.16	4.11	30.10	30.03
<b>TOTAL</b>	<b>21.15</b>	<b>21.60</b>	<b>2.08</b>	<b>2.11</b>	<b>23.23</b>	<b>23.71</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 3

Average Annual Rate of Change:<sup>1</sup> Directory Active Physicians<sup>2</sup>  
in British Columbia by Regional Hospital District by Registration Status  
September 1989 to January 1992

Regional Hospital District	Non-Postgraduate		Postgraduate		Total	
	Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>4.08</b>	<b>2.44</b>	*	*	<b>4.23</b>	<b>2.59</b>
1 Alberni-Clayoquot	1.06	0.53	*	*	1.06	0.53
2 Bulkley-Nechako	0.97	-0.05	*	*	0.97	-0.05
4 Cariboo	4.29	3.45	*	*	4.88	4.04
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	3.25	-1.31	*	*	3.61	-0.97
7 Central Kootenay	4.29	2.79	*	*	4.88	3.38
8 Central Okanagan	6.87	3.89	*	*	6.83	3.85
9 Columbia-Shuswap	2.74	2.41	*	*	2.74	2.41
10 Comox-Strathcona	3.31	0.94	*	*	3.31	0.94
11 Cowichan Valley	7.30	6.00	*	*	7.30	6.00
12 Dewdney-Alouette	6.32	1.83	*	*	6.32	1.83
13 East Kootenay	3.80	4.95	*	*	4.33	5.49
14 Fraser-Cheam	7.85	5.44	*	*	8.78	6.35
15 Fraser-Fort George	1.70	1.35	*	*	1.35	1.00
17 Kitimat-Stikine	3.49	2.03	*	*	1.70	0.26
18 Kootenay Boundary	8.77	8.50	*	*	8.00	7.74
19 Mount Waddington	-10.64	-10.56	*	*	-6.91	-6.83
20 Nanaimo	6.17	3.43	*	*	6.67	3.91
21 North Okanagan	4.21	3.51	*	*	4.21	3.51
22 Okanagan-Similkameen	3.40	2.26	*	*	3.40	2.26
23 Peace River	-1.67	-1.35	*	*	-1.67	-1.35
24 Powell River	1.52	1.07	*	*	1.52	1.07
25 Skeena-Queen Charlotte	0.00	-0.45	*	*	1.29	0.83
26 Squamish-Lillooet	1.70	-0.65	*	*	1.70	-0.65
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	3.23	1.77	*	*	4.79	3.31
29 Thompson-Nicola	1.72	0.86	*	*	1.97	1.10
30 Fort Nelson/Liard	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>2.52</b>	<b>0.08</b>	<b>2.35</b>	<b>-0.08</b>	<b>2.50</b>	<b>0.06</b>
3 Capital	2.83	0.66	10.38	8.05	3.10	0.93
16 Greater Vancouver	2.45	-0.04	1.97	-0.51	2.39	-0.10
<b>TOTAL</b>	<b>2.99</b>	<b>0.90</b>	<b>2.85</b>	<b>0.76</b>	<b>2.98</b>	<b>0.89</b>

<sup>1</sup>A twenty-eight month rate of change has been adjusted to an annual figure.

<sup>2</sup>Definitions are as in the attached text.

<sup>3</sup>Rate of change (in percent) in the number.

<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 4

Non-Postgraduate Physicians<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

January 1992

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Subtotal		Unknown	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>0</b>	<b>254</b>	<b>107</b>	<b>619</b>	<b>129</b>	<b>483</b>	<b>53</b>	<b>307</b>	<b>19</b>	<b>160</b>	<b>8</b>	<b>1,823</b>	<b>316</b>	<b>7</b>	<b>2,146</b>
1 Alberni-Clayoquot	0	0	4	2	13	4	6	3	6	0	2	0	31	9	1	41
2 Bulkley-Nechako	0	0	6	2	17	5	9	2	2	1	0	0	34	10	1	45
4 Cariboo	0	0	15	3	25	5	10	1	11	0	5	0	66	9	0	75
5 Central Coast	0	0	1	0	2	1	0	0	0	0	2	0	5	1	0	6
6 Central Fraser Valley	0	0	16	2	33	4	31	6	21	2	8	1	109	15	1	125
7 Central Kootenay	0	0	8	7	22	8	10	1	11	1	5	1	56	18	1	75
8 Central Okanagan	0	0	22	8	60	11	45	3	29	1	23	0	179	23	0	202
9 Columbia-Shuswap	0	0	5	2	13	4	13	3	7	0	1	1	39	10	0	49
10 Comox-Strathcona	0	0	16	6	37	7	29	3	16	1	8	0	106	17	0	123
11 Cowichan Valley	0	0	9	8	31	5	20	0	17	1	8	0	85	14	0	99
12 Dewdney-Alouette	0	0	14	7	36	6	22	3	12	0	5	0	89	16	0	105
13 East Kootenay	0	0	14	4	25	2	23	2	11	0	3	0	76	8	0	84
14 Fraser-Cheam	0	0	12	2	24	5	23	1	17	1	13	1	89	10	0	99
15 Fraser-Fort George	0	0	15	4	41	10	31	2	17	1	7	0	111	17	2	130
17 Kitimat-Stikine	0	0	8	2	12	4	15	2	7	0	2	0	44	8	0	52
18 Kootenay Boundary	0	0	10	7	20	4	16	0	7	0	8	1	61	12	0	73
19 Mount Waddington	0	0	5	0	1	0	3	0	0	0	1	0	10	0	0	10
20 Nanaimo	0	0	11	8	53	6	41	8	33	2	22	0	160	24	0	184
21 North Okanagan	0	0	7	6	28	3	25	2	18	1	8	0	86	12	0	98
22 Okanagan-Similkameen	0	0	6	5	30	8	34	3	17	2	12	2	99	20	1	120
23 Peace River	0	0	14	5	13	3	8	0	6	0	1	0	42	8	0	50
24 Powell River	0	0	1	2	7	1	9	3	5	0	1	0	23	6	0	29
25 Skeena-Queen Charlotte	0	0	7	3	10	4	4	0	2	0	3	0	26	7	0	33
26 Squamish-Lillooet	0	0	6	1	6	2	5	0	4	1	1	0	22	4	0	26
27 Stikine	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	1
28 Sunshine Coast	0	0	4	5	6	3	4	0	4	1	1	0	19	9	0	28
29 Thompson-Nicola	0	0	17	6	52	14	46	5	25	3	10	1	150	29	0	179
30 Fort Nelson/Liard	0	0	1	0	2	0	0	0	2	0	0	0	5	0	0	5
<b>Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>447</b>	<b>337</b>	<b>1,110</b>	<b>459</b>	<b>981</b>	<b>194</b>	<b>695</b>	<b>87</b>	<b>414</b>	<b>36</b>	<b>3,648</b>	<b>1,113</b>	<b>12</b>	<b>4,773</b>
3 Capital	0	0	61	40	183	59	190	30	141	9	95	0	670	138	1	809
16 Greater Vancouver	1	0	386	297	927	400	791	164	554	78	319	36	2,978	975	11	3,964
<b>TOTAL</b>	<b>1</b>	<b>0</b>	<b>701</b>	<b>444</b>	<b>1,729</b>	<b>588</b>	<b>1,464</b>	<b>247</b>	<b>1,002</b>	<b>106</b>	<b>574</b>	<b>44</b>	<b>5,471</b>	<b>1,429</b>	<b>19</b>	<b>6,919</b>

<sup>1</sup>Definitions are as in the attached text.

Table 5

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Specialty Group<sup>1</sup>**  
**September 1989 and January 1992**

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		Total	
	1989	1992	1989	1992	1989	1992	1989	1992	1989	1992
<b>Non-Metropolitan - Subtotal</b>	<b>1,320</b>	<b>1,453</b>	<b>328</b>	<b>360</b>	<b>35</b>	<b>40</b>	<b>272</b>	<b>293</b>	<b>1,955</b>	<b>2,146</b>
1 Alberni-Clayoquot	31	32	6	5	1	1	2	3	40	41
2 Bulkley-Nechako	38	39	5	5	0	0	1	1	44	45
4 Cariboo	53	59	7	9	0	0	8	7	68	75
5 Central Coast	4	5	0	1	0	0	0	0	4	6
6 Central Fraser Valley	73	78	26	28	3	3	14	16	116	125
7 Central Kootenay	56	64	6	7	2	1	4	3	68	75
8 Central Okanagan	92	104	45	51	3	6	33	41	173	202
9 Columbia-Shuswap	36	39	7	8	0	0	3	2	46	49
10 Comox-Strathcona	77	87	20	19	1	2	16	15	114	123
11 Cowichan Valley	57	69	15	16	1	1	11	13	84	99
12 Dewdney-Alouette	71	81	10	13	0	0	10	11	91	105
13 East Kootenay	54	60	14	14	0	0	9	10	77	84
14 Fraser-Cheam	55	66	13	14	3	4	12	15	83	99
15 Fraser-Fort George	80	79	20	21	5	5	20	25	125	130
17 Kitimat-Stikine	38	43	3	3	1	1	6	5	48	52
18 Kootenay Boundary	46	55	7	11	1	1	6	6	60	73
19 Mount Waddington	13	10	0	0	0	0	0	0	13	10
20 Nanaimo	92	105	35	44	3	3	30	32	160	184
21 North Okanagan	48	59	22	19	2	2	17	18	89	98
22 Okanagan-Similkameen	69	75	21	26	2	2	19	17	111	120
23 Peace River	40	37	4	5	1	1	7	7	52	50
24 Powell River	20	21	5	4	0	0	3	4	28	29
25 Skeena-Queen Charlotte	29	29	1	1	0	0	3	3	33	33
26 Squamish-Lillooet	24	25	1	1	0	0	0	0	25	26
27 Stikine	1	1	0	0	0	0	0	0	1	1
28 Sunshine Coast	24	26	1	1	0	0	1	1	26	28
29 Thompson-Nicola	96	101	34	34	6	7	36	37	172	179
30 Fort Nelson/Liard	3	4	0	0	0	0	1	1	4	5
<b>Metropolitan - Subtotal</b>	<b>2,239</b>	<b>2,444</b>	<b>1,446</b>	<b>1,513</b>	<b>133</b>	<b>149</b>	<b>686</b>	<b>667</b>	<b>4,504</b>	<b>4,773</b>
3 Capital	398	459	217	218	18	16	125	116	758	809
16 Greater Vancouver	1,841	1,985	1,229	1,295	115	133	561	551	3,746	3,964
<b>TOTAL</b>	<b>3,559</b>	<b>3,897</b>	<b>1,774</b>	<b>1,873</b>	<b>168</b>	<b>189</b>	<b>958</b>	<b>960</b>	<b>6,459</b>	<b>6,919</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 6

Non-Postgraduate Physicians<sup>1</sup> in British Columbia  
per 10,000 Population by Regional Hospital District by Specialty Group<sup>1</sup>  
September 1989 and January 1992

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		Total	
	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992	1989 <sup>2</sup>	1992
<b>Non-Metropolitan - Subtotal</b>	<b>9.95</b>	<b>10.56</b>	<b>2.47</b>	<b>2.62</b>	<b>0.26</b>	<b>0.29</b>	<b>2.05</b>	<b>2.13</b>	<b>14.74</b>	<b>15.59</b>
1 Alberni-Clayoquot	10.35	10.55	2.00	1.65	0.33	0.33	0.67	0.99	13.36	13.52
2 Bulkley-Nechako	10.26	10.29	1.35	1.32	0.00	0.00	0.27	0.26	11.88	11.87
4 Cariboo	9.09	9.93	1.20	1.51	0.00	0.00	1.37	1.18	11.66	12.62
5 Central Coast	12.54	15.72	0.00	3.14	0.00	0.00	0.00	0.00	12.54	18.87
6 Central Fraser Valley	9.54	9.17	3.40	3.29	0.39	0.35	1.83	1.88	15.16	14.70
7 Central Kootenay	11.54	12.76	1.24	1.40	0.41	0.20	0.82	0.60	14.02	14.95
8 Central Okanagan	9.41	9.96	4.60	4.88	0.31	0.57	3.38	3.93	17.70	19.34
9 Columbia-Shuswap	9.08	9.76	1.77	2.00	0.00	0.00	0.76	0.50	11.60	12.26
10 Comox-Strathcona	10.08	10.78	2.62	2.36	0.13	0.25	2.09	1.86	14.92	15.25
11 Cowichan Valley	10.33	12.15	2.72	2.82	0.18	0.18	1.99	2.29	15.22	17.44
12 Dewdney-Alouette	8.62	8.89	1.21	1.43	0.00	0.00	1.21	1.21	11.05	11.53
13 East Kootenay	11.10	12.66	2.88	2.95	0.00	0.00	1.85	2.11	15.83	17.72
14 Fraser-Cheam	8.74	9.95	2.07	2.11	0.48	0.60	1.91	2.26	13.19	14.92
15 Fraser-Fort George	9.28	9.09	2.32	2.42	0.58	0.58	2.32	2.88	14.49	14.95
17 Kitimat-Stikine	9.69	10.61	0.77	0.74	0.26	0.25	1.53	1.23	12.25	12.83
18 Kootenay Boundary	15.42	18.34	2.35	3.67	0.34	0.33	2.01	2.00	20.12	24.34
19 Mount Waddington	9.16	7.06	0.00	0.00	0.00	0.00	0.00	0.00	9.16	7.06
20 Nanaimo	10.42	11.19	3.96	4.69	0.34	0.32	3.40	3.41	18.12	19.60
21 North Okanagan	8.54	10.34	3.92	3.33	0.36	0.35	3.03	3.15	15.84	17.17
22 Okanagan-Similkameen	11.14	11.80	3.39	4.09	0.32	0.31	3.07	2.68	17.93	18.89
23 Peace River	8.11	7.56	0.81	1.02	0.20	0.20	1.42	1.43	10.54	10.21
24 Powell River	11.00	11.43	2.75	2.18	0.00	0.00	1.65	2.18	15.40	15.78
25 Skeena-Queen Charlotte	12.66	12.53	0.44	0.43	0.00	0.00	1.31	1.30	14.41	14.26
26 Squamish-Lillooet	11.20	11.05	0.47	0.44	0.00	0.00	0.00	0.00	11.67	11.49
27 Stikine	6.32	6.56	0.00	0.00	0.00	0.00	0.00	0.00	6.32	6.56
28 Sunshine Coast	13.43	14.08	0.56	0.54	0.00	0.00	0.56	0.54	14.55	15.16
29 Thompson-Nicola	9.81	10.11	3.47	3.40	0.61	0.70	3.68	3.70	17.57	17.92
30 Fort Nelson/Liard	6.40	8.88	0.00	0.00	0.00	0.00	2.13	2.22	8.53	11.11
<b>Metropolitan - Subtotal</b>	<b>12.96</b>	<b>13.38</b>	<b>8.37</b>	<b>8.28</b>	<b>0.77</b>	<b>0.82</b>	<b>3.97</b>	<b>3.65</b>	<b>26.08</b>	<b>26.13</b>
3 Capital	14.06	15.43	7.67	7.33	0.64	0.54	4.42	3.90	26.78	27.20
16 Greater Vancouver	12.75	12.98	8.51	8.47	0.80	0.87	3.88	3.60	25.94	25.92
<b>TOTAL</b>	<b>11.66</b>	<b>12.17</b>	<b>5.81</b>	<b>5.85</b>	<b>0.55</b>	<b>0.59</b>	<b>3.14</b>	<b>3.00</b>	<b>21.15</b>	<b>21.60</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

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The University of British Columbia

Table 7

Average Annual Rate of Change: Non-Postgraduate Physicians<sup>1</sup>  
in British Columbia by Regional Hospital District by Specialty Group<sup>1</sup>  
September 1989 to January 1992

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>4.20</b>	<b>2.56</b>	<b>4.07</b>	<b>2.43</b>	<b>5.89</b>	<b>4.22</b>	<b>3.24</b>	<b>1.61</b>	<b>4.08</b>	<b>2.44</b>
1 Alberni-Clayoquot	1.37	0.84	*	*	*	*	*	*	1.06	0.53
2 Bulkley-Nechako	1.12	0.10	*	*	*	*	*	*	0.97	-0.05
4 Cariboo	4.70	3.86	*	*	*	*	*	*	4.29	3.45
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	2.88	-1.67	3.23	-1.34	*	*	5.89	1.21	3.25	-1.31
7 Central Kootenay	5.89	4.37	*	*	*	*	*	*	4.29	2.79
8 Central Okanagan	5.39	2.46	5.51	2.57	*	*	9.75	6.69	6.87	3.89
9 Columbia-Shuswap	3.49	3.15	*	*	*	*	*	*	2.74	2.41
10 Comox-Strathcona	5.37	2.95	-2.17	-4.42	*	*	-2.73	-4.96	3.31	0.94
11 Cowichan Valley	8.53	7.22	2.80	1.56	*	*	7.42	6.12	7.30	6.00
12 Dewdney-Alouette	5.81	1.33	11.90	7.17	*	*	4.17	-0.24	6.32	1.83
13 East Kootenay	4.62	5.78	0.00	1.11	*	*	*	*	3.80	4.95
14 Fraser-Cheam	8.13	5.71	3.23	0.92	*	*	10.04	7.58	7.85	5.44
15 Fraser-Fort George	-0.54	-0.88	2.11	1.77	*	*	10.04	9.66	1.70	1.35
17 Kitimat-Stikine	5.44	3.96	*	*	*	*	*	*	3.49	2.03
18 Kootenay Boundary	7.96	7.70	*	*	*	*	*	*	8.77	8.50
19 Mount Waddington	-10.64	-10.56	*	*	*	*	*	*	-10.64	-10.56
20 Nanaimo	5.83	3.10	10.30	7.46	*	*	2.80	0.15	6.17	3.43
21 North Okanagan	9.25	8.51	-6.09	-6.72	*	*	2.48	1.79	4.21	3.51
22 Okanagan-Similkameen	3.64	2.50	9.59	8.38	*	*	-4.65	-5.70	3.40	2.26
23 Peace River	-3.29	-2.97	*	*	*	*	*	*	-1.67	-1.35
24 Powell River	2.11	1.66	*	*	*	*	*	*	1.52	1.07
25 Skeena-Queen Charlotte	0.00	-0.45	*	*	*	*	*	*	0.00	-0.45
26 Squamish-Lillooet	1.76	-0.58	*	*	*	*	*	*	1.70	-0.65
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	3.49	2.03	*	*	*	*	*	*	3.23	1.77
29 Thompson-Nicola	2.20	1.33	0.00	-0.85	*	*	1.18	0.32	1.72	0.86
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>3.83</b>	<b>1.36</b>	<b>1.96</b>	<b>-0.47</b>	<b>4.99</b>	<b>2.49</b>	<b>-1.20</b>	<b>-3.55</b>	<b>2.52</b>	<b>0.08</b>
3 Capital	6.30	4.06	0.20	-1.92	-4.92	-6.93	-3.15	-5.20	2.83	0.66
16 Greater Vancouver	3.28	0.77	2.27	-0.22	6.43	3.84	-0.77	-3.18	2.45	-0.04
<b>TOTAL</b>	<b>3.96</b>	<b>1.85</b>	<b>2.35</b>	<b>0.27</b>	<b>5.18</b>	<b>3.04</b>	<b>0.09</b>	<b>-1.95</b>	<b>2.99</b>	<b>0.90</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Rate of change (in percent) in the number.<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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Table 8

Non-Postgraduate Physicians<sup>1</sup> in British Columbia  
by Regional Hospital District by MSC Specialty  
January 1992

Regional Hospital District	General Practice	Family Practice	General Practice Subtotal	Anaesthesia	Community Medicine <sup>2</sup>	Dermatology <sup>3</sup>	Emergency Medicine <sup>4</sup>	206
<b>Non-Metropolitan - Subtotal</b>	<b>1,115</b>	<b>338</b>	<b>1,453</b>	<b>66</b>	<b>11</b>	<b>8</b>	<b>2</b>	
1 Alberni-Clayoquot	26	6	32	1	0	0	0	
2 Bulkley-Nechako	34	5	39	1	0	0	0	
4 Cariboo	52	7	59	2	1	0	0	
5 Central Coast	2	3	5	0	0	0	0	
6 Central Fraser Valley	55	23	78	5	0	1	0	
7 Central Kootenay	46	18	64	1	0	0	0	
8 Central Okanagan	71	33	104	9	1	0	1	
9 Columbia-Shuswap	34	5	39	0	0	0	0	
10 Comox-Strathcona	78	9	87	6	0	1	0	
11 Cowichan Valley	53	16	69	4	1	0	0	
12 Dewdney-Alouette	57	24	81	3	1	1	0	
13 East Kootenay	50	10	60	1	1	0	0	
14 Fraser-Cheam	56	10	66	4	0	0	0	
15 Fraser-Fort George	55	24	79	4	0	1	0	
17 Kitimat-Stikine	32	11	43	0	0	0	0	
18 Kootenay Boundary	45	10	55	0	0	0	0	
19 Mount Waddington	7	3	10	0	0	0	0	
20 Nanaimo	79	26	105	9	3	1	1	
21 North Okanagan	35	24	59	5	1	1	0	
22 Okanagan-Similkameen	60	15	75	3	1	1	0	
23 Peace River	34	3	37	0	0	0	0	
24 Powell River	18	3	21	0	1	0	0	
25 Skeena-Queen Charlotte	16	13	29	0	0	0	0	
26 Squamish-Lillooet	21	4	25	0	0	0	0	
27 Stikine	1	0	1	0	0	0	0	
28 Sunshine Coast	16	10	26	0	0	0	0	
29 Thompson-Nicola	79	22	101	8	0	1	0	
30 Fort Nelson/Liard	3	1	4	0	0	0	0	
<b>Metropolitan - Subtotal</b>	<b>1,915</b>	<b>529</b>	<b>2,444</b>	<b>225</b>	<b>20</b>	<b>50</b>	<b>57</b>	
3 Capital	374	85	459	42	3	6	14	
16 Greater Vancouver	1,541	444	1,985	183	17	44	43	
<b>TOTAL</b>	<b>3,030</b>	<b>867</b>	<b>3,897</b>	<b>291</b>	<b>31</b>	<b>58</b>	<b>59</b>	

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes the old specialty designation Public Health and the RCPSC specialty Occupational Medicine.

<sup>3</sup>Includes the old specialty designation Dermatology and Syphilology.

<sup>4</sup>Comprises the RCPSC specialty Emergency Medicine.

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... continued



Table 8  
(Continued)

Non-Postgraduate Physicians<sup>1</sup> in British Columbia  
by Regional Hospital District by MSC Specialty

January 1992

Regional Hospital District	General Surgery <sup>2</sup>	Internal Medicine <sup>3</sup>	Medical Microbiology	Neurology	Neuro-psychiatry	Neurosurgery	Nuclear Medicine
<b>Non-Metropolitan - Subtotal</b>	<b>93</b>	<b>94</b>	<b>2</b>	<b>11</b>	<b>1</b>	<b>5</b>	<b>2</b>
1 Alberni-Clayoquot	3	1	0	0	0	0	0
2 Bulkley-Nechako	1	1	0	0	0	0	0
4 Cariboo	5	2	0	0	0	0	0
5 Central Coast	0	1	0	0	0	0	0
6 Central Fraser Valley	3	5	0	1	0	0	0
7 Central Kootenay	2	4	0	0	0	0	0
8 Central Okanagan	8	15	0	3	0	1	1
9 Columbia-Shuswap	2	2	0	0	0	0	0
10 Comox-Strathcona	4	4	0	0	0	0	0
11 Cowichan Valley	3	4	0	0	0	0	0
12 Dewdney-Alouette	4	3	0	0	0	0	0
13 East Kootenay	4	2	0	0	0	0	0
14 Fraser-Cheam	4	4	0	1	0	0	0
15 Fraser-Fort George	7	5	0	2	0	1	0
17 Kitimat-Stikine	3	1	0	0	0	0	0
18 Kootenay Boundary	3	5	0	1	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	6	9	0	2	0	0	0
21 North Okanagan	4	5	1	0	0	0	0
22 Okanagan-Similkameen	5	9	0	1	0	0	0
23 Peace River	3	1	0	0	0	0	0
24 Powell River	3	1	0	0	0	0	0
25 Skeena-Queen Charlotte	2	1	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	0	0
29 Thompson-Nicola	12	9	1	0	1	3	1
30 Fort Nelson/Liard	1	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>125</b>	<b>412</b>	<b>16</b>	<b>51</b>	<b>1</b>	<b>24</b>	<b>7</b>
3 Capital	23	55	1	6	0	4	2
16 Greater Vancouver	102	357	15	45	1	20	5
<b>TOTAL</b>	<b>218</b>	<b>506</b>	<b>18</b>	<b>62</b>	<b>2</b>	<b>29</b>	<b>9</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes Paediatric General Surgery.

<sup>3</sup>Includes Cardiology, Clinical Immunology, Gastroenterology, Haematology, Respiratory Medicine, Geriatric Medicine, Rheumatology and Nephrology.

Table 8  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by Regional Hospital District by MSC Specialty**  
**January 1992**

Regional Hospital District	Obstetrics & Gynaecology	Ophthalmology	Orthopaedic Surgery	Otolaryngology	Paediatrics <sup>2</sup>	Pathology <sup>3</sup>	Physical Medicine
<b>Non-Metropolitan - Subtotal</b>	<b>47</b>	<b>41</b>	<b>50</b>	<b>19</b>	<b>36</b>	<b>38</b>	<b>6</b>
1 Alberni-Clayoquot	0	0	0	0	1	1	0
2 Bulkley-Nechako	0	0	0	0	1	0	0
4 Cariboo	1	0	0	0	1	0	0
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	2	3	5	0	2	3	0
7 Central Kootenay	0	0	0	0	1	1	0
8 Central Okanagan	7	6	6	4	4	6	3
9 Columbia-Shuswap	0	0	0	0	1	0	0
10 Comox-Strathcona	3	1	4	2	1	2	0
11 Cowichan Valley	3	3	3	1	1	1	0
12 Dewdney-Alouette	2	1	3	0	1	0	0
13 East Kootenay	1	1	2	1	1	0	0
14 Fraser-Cheam	1	3	3	1	1	4	0
15 Fraser-Fort George	3	4	4	2	2	5	0
17 Kitimat-Stikine	1	0	0	0	1	1	0
18 Kootenay Boundary	1	0	1	0	1	1	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	7	8	5	2	3	3	1
21 North Okanagan	3	5	4	1	3	1	0
22 Okanagan-Similkameen	3	3	3	1	4	2	0
23 Peace River	1	1	1	1	0	1	0
24 Powell River	1	0	0	0	1	0	0
25 Skeena-Queen Charlotte	1	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	1	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0
29 Thompson-Nicola	6	2	6	3	4	6	2
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>117</b>	<b>122</b>	<b>97</b>	<b>60</b>	<b>156</b>	<b>133</b>	<b>26</b>
3 Capital	18	24	18	8	11	15	3
16 Greater Vancouver	99	98	79	52	145	118	23
<b>TOTAL</b>	<b>164</b>	<b>163</b>	<b>147</b>	<b>79</b>	<b>192</b>	<b>171</b>	<b>32</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes Paediatric Cardiology.<sup>3</sup>Includes Anatomical Pathology, General Pathology, Haematological Pathology, Medical Biochemistry and Neuropathology.

Table 8  
(Continued)

Non-Postgraduate Physicians<sup>1</sup> in British Columbia  
by Regional Hospital District by MSC Specialty  
January 1992

Regional Hospital District	Plastic Surgery	Psychiatry	Radiology <sup>2</sup>	Thoracic Surgery <sup>3</sup>	Urology	Vascular Surgery	Specialty Subtotal	Total
<b>Non-Metropolitan - Subtotal</b>	<b>10</b>	<b>50</b>	<b>73</b>	<b>2</b>	<b>21</b>	<b>5</b>	<b>693</b>	<b>2,146</b>
1 Alberni-Clayoquot	0	2	0	0	0	0	9	41
2 Bulkley-Nechako	0	0	2	0	0	0	6	45
4 Cariboo	0	0	3	0	1	0	16	75
5 Central Coast	0	0	0	0	0	0	1	6
6 Central Fraser Valley	1	7	7	0	2	0	47	125
7 Central Kootenay	0	0	1	1	0	0	11	75
8 Central Okanagan	2	8	6	1	4	2	98	202
9 Columbia-Shuswap	0	2	3	0	0	0	10	49
10 Comox-Strathcona	0	2	5	0	1	0	36	123
11 Cowichan Valley	0	3	3	0	0	0	30	99
12 Dewdney-Alouette	0	3	1	0	1	0	24	105
13 East Kootenay	0	2	7	0	1	0	24	84
14 Fraser-Cheam	1	2	2	0	1	1	33	99
15 Fraser-Fort George	2	3	4	0	2	0	51	130
17 Kitimat-Stikine	0	0	1	0	1	0	9	52
18 Kootenay Boundary	0	1	3	0	1	0	18	73
19 Mount Waddington	0	0	0	0	0	0	0	10
20 Nanaimo	2	5	10	0	2	0	79	184
21 North Okanagan	0	1	3	0	1	0	39	98
22 Okanagan-Similkameen	0	4	3	0	1	1	45	120
23 Peace River	0	1	3	0	0	0	13	50
24 Powell River	0	1	0	0	0	0	8	29
25 Skeena-Queen Charlotte	0	0	0	0	0	0	4	33
26 Squamish-Lillooet	0	0	0	0	0	0	1	26
27 Stikine	0	0	0	0	0	0	0	1
28 Sunshine Coast	0	1	0	0	0	0	2	28
29 Thompson-Nicola	2	2	6	0	2	1	78	179
30 Fort Nelson/Liard	0	0	0	0	0	0	1	5
<b>Metropolitan - Subtotal</b>	<b>39</b>	<b>323</b>	<b>185</b>	<b>25</b>	<b>40</b>	<b>18</b>	<b>2,329</b>	<b>4,773</b>
3 Capital	6	43	33	4	9	2	350	809
16 Greater Vancouver	33	280	152	21	31	16	1,979	3,964
<b>TOTAL</b>	<b>49</b>	<b>373</b>	<b>258</b>	<b>27</b>	<b>61</b>	<b>23</b>	<b>3,022</b>	<b>6,919</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes Diagnostic Radiology, Therapeutic Radiology, and Radiation Oncology.

<sup>3</sup>Includes Cardiovascular Surgery.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 9

Non-Postgraduate Physicians<sup>1</sup> in British Columbia

per 10,000 Population by Regional Hospital District by MSC Specialty

January 1992

Regional Hospital District	General Practice	Family Practice	Practice Subtotal	Anaesthesia	Community Medicine <sup>2</sup>	Dermatology <sup>3</sup>	Emergency Medicine <sup>4</sup>	210
<b>Non-Metropolitan - Subtotal</b>	<b>8.10</b>	<b>2.46</b>	<b>10.56</b>	<b>0.48</b>	<b>0.08</b>	<b>0.06</b>	<b>0.01</b>	
1 Alberni-Clayoquot	8.58	1.98	10.55	0.33	0.00	0.00	0.00	
2 Bulkley-Nechako	8.97	1.32	10.29	0.26	0.00	0.00	0.00	
4 Cariboo	8.75	1.18	9.93	0.34	0.17	0.00	0.00	
5 Central Coast	6.29	9.43	15.72	0.00	0.00	0.00	0.00	
6 Central Fraser Valley	6.47	2.70	9.17	0.59	0.00	0.12	0.00	
7 Central Kootenay	9.17	3.59	12.76	0.20	0.00	0.00	0.00	
8 Central Okanagan	6.80	3.16	9.96	0.86	0.10	0.00	0.10	
9 Columbia-Shuswap	8.51	1.25	9.76	0.00	0.00	0.00	0.00	
10 Comox-Strathcona	9.67	1.12	10.78	0.74	0.00	0.12	0.00	
11 Cowichan Valley	9.33	2.82	12.15	0.70	0.18	0.00	0.00	
12 Dewdney-Alouette	6.26	2.64	8.89	0.33	0.11	0.11	0.00	
13 East Kootenay	10.55	2.11	12.66	0.21	0.21	0.00	0.00	
14 Fraser-Cheam	8.44	1.51	9.95	0.60	0.00	0.00	0.00	
15 Fraser-Fort George	6.33	2.76	9.09	0.46	0.00	0.12	0.00	
17 Kitimat-Stikine	7.90	2.71	10.61	0.00	0.00	0.00	0.00	
18 Kootenay Boundary	15.00	3.33	18.34	0.00	0.00	0.00	0.00	
19 Mount Waddington	4.94	2.12	7.06	0.00	0.00	0.00	0.00	
20 Nanaimo	8.42	2.77	11.19	0.96	0.32	0.11	0.11	
21 North Okanagan	6.13	4.20	10.34	0.88	0.18	0.18	0.00	
22 Okanagan-Similkameen	9.44	2.36	11.80	0.47	0.16	0.16	0.00	
23 Peace River	6.94	0.61	7.56	0.00	0.00	0.00	0.00	
24 Powell River	9.80	1.63	11.43	0.00	0.54	0.00	0.00	
25 Skeena-Queen Charlotte	6.91	5.62	12.53	0.00	0.00	0.00	0.00	
26 Squamish-Lillooet	9.28	1.77	11.05	0.00	0.00	0.00	0.00	
27 Stikine	6.56	0.00	6.56	0.00	0.00	0.00	0.00	
28 Sunshine Coast	8.66	5.41	14.08	0.00	0.00	0.00	0.00	
29 Thompson-Nicola	7.91	2.20	10.11	0.80	0.00	0.10	0.00	
30 Fort Nelson/Liard	6.66	2.22	8.88	0.00	0.00	0.00	0.00	
<b>Metropolitan - Subtotal</b>	<b>10.48</b>	<b>2.90</b>	<b>13.38</b>	<b>1.23</b>	<b>0.11</b>	<b>0.27</b>	<b>0.31</b>	
3 Capital	12.57	2.86	15.43	1.41	0.10	0.20	0.47	
16 Greater Vancouver	10.08	2.90	12.98	1.20	0.11	0.29	0.28	
<b>TOTAL</b>	<b>9.46</b>	<b>2.71</b>	<b>12.17</b>	<b>0.91</b>	<b>0.10</b>	<b>0.18</b>	<b>0.18</b>	

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes the old specialty designation Public Health and the RCPSC specialty Occupational Medicine.<sup>3</sup>Includes the old specialty designation Dermatology and Syphilology.<sup>4</sup>Comprises the RCPSC specialty Emergency Medicine.

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 Health Human Resources Unit  
 The University of British Columbia

... continued

Table 9  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by MSC Specialty**  
**January 1992**

Regional Hospital District	General Surgery <sup>2</sup>	Internal Medicine <sup>1</sup>	Medical Microbiology	Neurology	Neuro- psychiatry	Neurosurgery	Nuclear Medicine
<b>Non-Metropolitan - Subtotal</b>	<b>0.68</b>	<b>0.68</b>	<b>0.01</b>	<b>0.08</b>	<b>0.01</b>	<b>0.04</b>	<b>0.01</b>
1 Alberni-Clayoquot	0.99	0.33	0.00	0.00	0.00	0.00	0.00
2 Bulkley-Nechako	0.26	0.26	0.00	0.00	0.00	0.00	0.00
4 Cariboo	0.84	0.34	0.00	0.00	0.00	0.00	0.00
5 Central Coast	0.00	3.14	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.35	0.59	0.00	0.12	0.00	0.00	0.00
7 Central Kootenay	0.40	0.80	0.00	0.00	0.00	0.00	0.00
8 Central Okanagan	0.77	1.44	0.00	0.29	0.00	0.10	0.10
9 Columbia-Shuswap	0.50	0.50	0.00	0.00	0.00	0.00	0.00
10 Comox-Strathcona	0.50	0.50	0.00	0.00	0.00	0.00	0.00
11 Cowichan Valley	0.53	0.70	0.00	0.00	0.00	0.00	0.00
12 Dewdney-Alouette	0.44	0.33	0.00	0.00	0.00	0.00	0.00
13 East Kootenay	0.84	0.42	0.00	0.00	0.00	0.00	0.00
14 Fraser-Cheam	0.60	0.60	0.00	0.15	0.00	0.00	0.00
15 Fraser-Fort George	0.81	0.58	0.00	0.23	0.00	0.12	0.00
17 Kitimat-Stikine	0.74	0.25	0.00	0.00	0.00	0.00	0.00
18 Kootenay Boundary	1.00	1.67	0.00	0.33	0.00	0.00	0.00
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Nanaimo	0.64	0.96	0.00	0.21	0.00	0.00	0.00
21 North Okanagan	0.70	0.88	0.18	0.00	0.00	0.00	0.00
22 Okanagan-Similkameen	0.79	1.42	0.00	0.16	0.00	0.00	0.00
23 Peace River	0.61	0.20	0.00	0.00	0.00	0.00	0.00
24 Powell River	1.63	0.54	0.00	0.00	0.00	0.00	0.00
25 Skeena-Queen Charlotte	0.86	0.43	0.00	0.00	0.00	0.00	0.00
26 Squamish-Lillooet	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.54	0.00	0.00	0.00	0.00	0.00	0.00
29 Thompson-Nicola	1.20	0.90	0.10	0.00	0.10	0.30	0.10
30 Fort Nelson/Liard	2.22	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>0.68</b>	<b>2.26</b>	<b>0.09</b>	<b>0.28</b>	<b>0.01</b>	<b>0.13</b>	<b>0.04</b>
3 Capital	0.77	1.85	0.03	0.20	0.00	0.13	0.07
16 Greater Vancouver	0.67	2.33	0.10	0.29	0.01	0.13	0.03
<b>TOTAL</b>	<b>0.68</b>	<b>1.58</b>	<b>0.06</b>	<b>0.19</b>	<b>0.01</b>	<b>0.09</b>	<b>0.03</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes Paediatric General Surgery.

<sup>3</sup>Includes Cardiology, Clinical Immunology, Gastroenterology, Haematology, Respiratory Medicine, Geriatric Medicine, Rheumatology and Nephrology.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

... continued

Table 9  
(Continued)

Non-Postgraduate Physicians<sup>1</sup> in British Columbia  
per 10,000 Population by Regional Hospital District by MSC Specialty  
January 1992

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Regional Hospital District	Obstetrics & Gynaecology	Ophthalmology	Orthopaedic Surgery	Otolaryngology	Paediatrics <sup>2</sup>	Pathology <sup>3</sup>	Physical Medicine
<b>Non-Metropolitan - Subtotal</b>	<b>0.34</b>	<b>0.30</b>	<b>0.36</b>	<b>0.14</b>	<b>0.26</b>	<b>0.28</b>	<b>0.04</b>
1 Alberni-Clayoquot	0.00	0.00	0.00	0.00	0.33	0.33	0.00
2 Bulkley-Nechako	0.00	0.00	0.00	0.00	0.26	0.00	0.00
4 Cariboo	0.17	0.00	0.00	0.00	0.17	0.00	0.00
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.24	0.35	0.59	0.00	0.24	0.35	0.00
7 Central Kootenay	0.00	0.00	0.00	0.00	0.20	0.20	0.00
8 Central Okanagan	0.67	0.57	0.57	0.38	0.38	0.57	0.29
9 Columbia-Shuswap	0.00	0.00	0.00	0.00	0.25	0.00	0.00
10 Comox-Strathcona	0.37	0.12	0.50	0.25	0.12	0.25	0.00
11 Cowichan Valley	0.53	0.53	0.53	0.18	0.18	0.18	0.00
12 Dewdney-Alouette	0.22	0.11	0.33	0.00	0.11	0.00	0.00
13 East Kootenay	0.21	0.21	0.42	0.21	0.21	0.00	0.00
14 Fraser-Cheam	0.15	0.45	0.45	0.15	0.15	0.60	0.00
15 Fraser-Fort George	0.35	0.46	0.46	0.23	0.23	0.58	0.00
17 Kitimat-Stikine	0.25	0.00	0.00	0.00	0.25	0.25	0.00
18 Kootenay Boundary	0.33	0.00	0.33	0.00	0.33	0.33	0.00
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Nanaimo	0.75	0.85	0.53	0.21	0.32	0.32	0.11
21 North Okanagan	0.53	0.88	0.70	0.18	0.53	0.18	0.00
22 Okanagan-Similkameen	0.47	0.47	0.47	0.16	0.63	0.31	0.00
23 Peace River	0.20	0.20	0.20	0.20	0.00	0.20	0.00
24 Powell River	0.54	0.00	0.00	0.00	0.54	0.00	0.00
25 Skeena-Queen Charlotte	0.43	0.00	0.00	0.00	0.00	0.00	0.00
26 Squamish-Lillooet	0.00	0.00	0.00	0.00	0.44	0.00	0.00
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29 Thompson-Nicola	0.60	0.20	0.60	0.30	0.40	0.60	0.20
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>0.64</b>	<b>0.67</b>	<b>0.53</b>	<b>0.33</b>	<b>0.85</b>	<b>0.73</b>	<b>0.14</b>
3 Capital	0.61	0.81	0.61	0.27	0.37	0.50	0.10
16 Greater Vancouver	0.65	0.64	0.52	0.34	0.95	0.77	0.15
<b>TOTAL</b>	<b>0.51</b>	<b>0.51</b>	<b>0.46</b>	<b>0.25</b>	<b>0.60</b>	<b>0.53</b>	<b>0.10</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes Paediatric Cardiology.

<sup>3</sup>Includes Anatomical Pathology, General Pathology, Haematological Pathology, Medical Biochemistry and Neuropathology.

Prepared by:  
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The University of British Columbia

... continued

Table 9  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by MSC Specialty**  
**January 1992**

Regional Hospital District	Plastic Surgery	Psychiatry	Radiology <sup>2</sup>	Thoracic Surgery <sup>3</sup>	Urology	Vascular Surgery	Specialty Subtotal	Total
<b>Non-Metropolitan - Subtotal</b>	<b>0.07</b>	<b>0.36</b>	<b>0.53</b>	<b>0.01</b>	<b>0.15</b>	<b>0.04</b>	<b>5.04</b>	<b>15.59</b>
1 Alberni-Clayoquot	0.00	0.66	0.00	0.00	0.00	0.00	2.97	13.52
2 Bulkley-Nechako	0.00	0.00	0.53	0.00	0.00	0.00	1.58	11.87
4 Cariboo	0.00	0.00	0.50	0.00	0.17	0.00	2.69	12.62
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	3.14	18.87
6 Central Fraser Valley	0.12	0.82	0.82	0.00	0.24	0.00	5.53	14.70
7 Central Kootenay	0.00	0.00	0.20	0.20	0.00	0.00	2.19	14.95
8 Central Okanagan	0.19	0.77	0.57	0.10	0.38	0.19	9.38	19.34
9 Columbia-Shuswap	0.00	0.50	0.75	0.00	0.00	0.00	2.50	12.26
10 Comox-Strathcona	0.00	0.25	0.62	0.00	0.12	0.00	4.46	15.25
11 Cowichan Valley	0.00	0.53	0.53	0.00	0.00	0.00	5.28	17.44
12 Dewdney-Alouette	0.00	0.33	0.11	0.00	0.11	0.00	2.64	11.53
13 East Kootenay	0.00	0.42	1.48	0.00	0.21	0.00	5.06	17.72
14 Fraser-Cheam	0.15	0.30	0.30	0.00	0.15	0.15	4.97	14.92
15 Fraser-Fort George	0.23	0.35	0.46	0.00	0.23	0.00	5.87	14.95
17 Kitimat-Stikine	0.00	0.00	0.25	0.00	0.25	0.00	2.22	12.83
18 Kootenay Boundary	0.00	0.33	1.00	0.00	0.33	0.00	6.00	24.34
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.06
20 Nanaimo	0.21	0.53	1.07	0.00	0.21	0.00	8.42	19.60
21 North Okanagan	0.00	0.18	0.53	0.00	0.18	0.00	6.83	17.17
22 Okanagan-Similkameen	0.00	0.63	0.47	0.00	0.16	0.16	7.08	18.89
23 Peace River	0.00	0.20	0.61	0.00	0.00	0.00	2.65	10.21
24 Powell River	0.00	0.54	0.00	0.00	0.00	0.00	4.35	15.78
25 Skeena-Queen Charlotte	0.00	0.00	0.00	0.00	0.00	0.00	1.73	14.26
26 Squamish-Lillooet	0.00	0.00	0.00	0.00	0.00	0.00	0.44	11.49
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.56
28 Sunshine Coast	0.00	0.54	0.00	0.00	0.00	0.00	1.08	15.16
29 Thompson-Nicola	0.20	0.20	0.60	0.00	0.20	0.10	7.81	17.92
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	2.22	11.11
<b>Metropolitan - Subtotal</b>	<b>0.21</b>	<b>1.77</b>	<b>1.01</b>	<b>0.14</b>	<b>0.22</b>	<b>0.10</b>	<b>12.75</b>	<b>26.13</b>
3 Capital	0.20	1.45	1.11	0.13	0.30	0.07	11.77	27.20
16 Greater Vancouver	0.22	1.83	0.99	0.14	0.20	0.10	12.94	25.92
<b>TOTAL</b>	<b>0.15</b>	<b>1.16</b>	<b>0.81</b>	<b>0.08</b>	<b>0.19</b>	<b>0.07</b>	<b>9.43</b>	<b>21.60</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes Diagnostic Radiology, Therapeutic Radiology, and Radiation Oncology.

<sup>3</sup>Includes Cardiovascular Surgery.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 10

Analysis of Changes in the Number of Non-Postgraduate Physicians<sup>1</sup>  
in British Columbia by Regional Hospital District  
September 1989 to January 1992

Regional Hospital District	1989 <sup>4</sup>	New Registrants <sup>2</sup> by Place of Graduation					Re-Act <sup>3</sup>		Attr'n <sup>4</sup>	Migr'n <sup>5</sup>	1992 <sup>6</sup>
		U.B.C.	O.Can. <sup>5</sup>	U.K.	Other	Total	PG-NPG	Other			
<b>Non-Metropolitan - Subtotal</b>	<b>1,955</b>	<b>39</b>	<b>94</b>	<b>18</b>	<b>86</b>	<b>237</b>	<b>57</b>	<b>60</b>	<b>179</b>	<b>16</b>	<b>2,146</b>
1 Alberni-Clayoquot	40	0	1	0	5	6	0	1	5	-1	41
2 Bulkley-Nechako	44	1	1	1	5	8	1	1	6	-3	45
4 Cariboo	68	1	5	1	3	10	3	4	5	-5	75
5 Central Coast	4	0	1	0	0	1	1	3	2	-1	6
6 Central Fraser Valley	116	3	3	1	3	10	1	4	9	3	125
7 Central Kootenay	68	2	3	0	4	9	1	2	6	1	75
8 Central Okanagan	173	3	15	0	4	22	8	4	10	5	202
9 Columbia-Shuswap	46	1	4	0	1	6	0	3	4	-2	49
10 Comox-Strathcona	114	3	2	1	5	11	3	5	14	4	123
11 Cowichan Valley	84	4	7	0	2	13	2	2	8	6	99
12 Dewdney-Alouette	91	6	2	1	2	11	2	2	4	3	105
13 East Kootenay	77	0	3	0	7	10	4	5	11	-1	84
14 Fraser-Cheam	83	5	6	0	3	14	2	3	5	2	99
15 Fraser-Fort George	125	2	4	1	8	15	4	1	11	-4	130
17 Kitimat-Stikine	48	0	2	0	8	10	1	2	7	-2	52
18 Kootenay Boundary	60	1	3	1	5	10	2	3	5	3	73
19 Mount Waddington	13	0	0	1	2	3	1	0	3	-4	10
20 Nanaimo	160	3	9	0	3	15	7	2	9	9	184
21 North Okanagan	89	1	4	2	1	8	3	3	7	2	98
22 Okanagan-Similkameen	111	1	5	0	2	8	0	4	5	2	120
23 Peace River	52	0	0	1	6	7	1	2	8	-4	50
24 Powell River	28	0	0	1	2	3	0	0	3	1	29
25 Skeena-Queen Charlotte	33	0	2	1	2	5	3	1	6	-3	33
26 Squamish-Lillooet	25	0	1	0	1	2	0	0	4	3	26
27 Stikine	1	0	0	0	0	0	0	0	0	0	1
28 Sunshine Coast	26	1	1	1	0	3	2	0	6	3	28
29 Thompson-Nicola	172	1	10	2	1	14	5	3	14	-1	179
30 Fort Nelson/Liard	4	0	0	2	1	3	0	0	2	0	5
<b>Metropolitan - Subtotal</b>	<b>4,504</b>	<b>103</b>	<b>197</b>	<b>31</b>	<b>59</b>	<b>390</b>	<b>223</b>	<b>85</b>	<b>413</b>	<b>-16</b>	<b>4,773</b>
3 Capital	758	11	44	9	12	76	16	22	88	25	809
16 Greater Vancouver	3,746	92	153	22	47	314	207	63	325	-41	3,964
<b>TOTAL</b>	<b>6,459</b>	<b>142</b>	<b>291</b>	<b>49</b>	<b>145</b>	<b>627</b>	<b>280</b>	<b>145</b>	<b>592</b>	<b>0</b>	<b>6,919</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Physicians who were Non-Postgraduate in B.C. in January 1992 and whose initial registration with the CPSBC fell after September 1989.

<sup>3</sup>In September 1989 these physicians were registered with the CPSBC as Postgraduate, or as Directory Active but out-of-province, or as not licensed to practice in B.C.; in January 1992 they were Non-Postgraduate in B.C.

<sup>4</sup>Number of Non-Postgraduate Physicians in B.C.; September 1989.

<sup>5</sup>Other Canada.

<sup>6</sup>Physicians who were Non-Postgraduate in B.C. in September 1989 but not in January 1992.

<sup>7</sup>Net effect of intra-provincial migration.

<sup>8</sup>Number of Non-Postgraduate Physicians in B.C.; January 1992.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia



## PODIATRISTS

## PODIATRISTS

**Definition:** A podiatrist

"diagnoses and treats diseases, disorders and deformities of human foot:

Diagnoses tumors, ulcers, fractures, skin and nail diseases and deformities, using blood analysis, urinalysis, X-rays and other tests. Treats flat or weak feet, and foot imbalance and other deformities, using electrical and mechanical techniques. Treats corns, calluses and ingrown nails and other disorders using surgical tools. Prescribes and administers medications. Corrects deformities, using plaster casts, strappings, braces, and prosthetic devices. Prescribes corrective footwear. Advises patients concerning treatment of disorders and proper foot care. Refers patients to physicians when symptoms observed in feet and legs indicate systemic disorders."<sup>1</sup>

**Governing Statute:** Podiatrists Act, Revised Statutes of British Columbia, 1979, Chapter 330; Health Professions Amendment Act, 1989, Chapter 29, Sections 17-18; administered by the Ministry of Health.

**Governing Body:** British Columbia Association of Podiatrists. In order to practise podiatry in British Columbia, it is necessary to hold a certificate of registration issued by the British Columbia Association of Podiatrists.

**Date of Record:** September 1989 and December 1991.

**Source of Data:** British Columbia Association of Podiatrists.

**Preparation and Updating:**

The tables, derived from the register supplied by the British Columbia Association of Podiatrists, include registered podiatrists who reported a British Columbia address at the date of record.

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, No. 3119-110, p. 51, Ottawa: Employment and Immigration Canada.

**Definition of Terms:****1. Age and Sex**

Age and sex information on registered podiatrists in British Columbia is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada. In 1991, no registered podiatrists were reported in the category for under 25 years of age.

**Registered Podiatrists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=69**

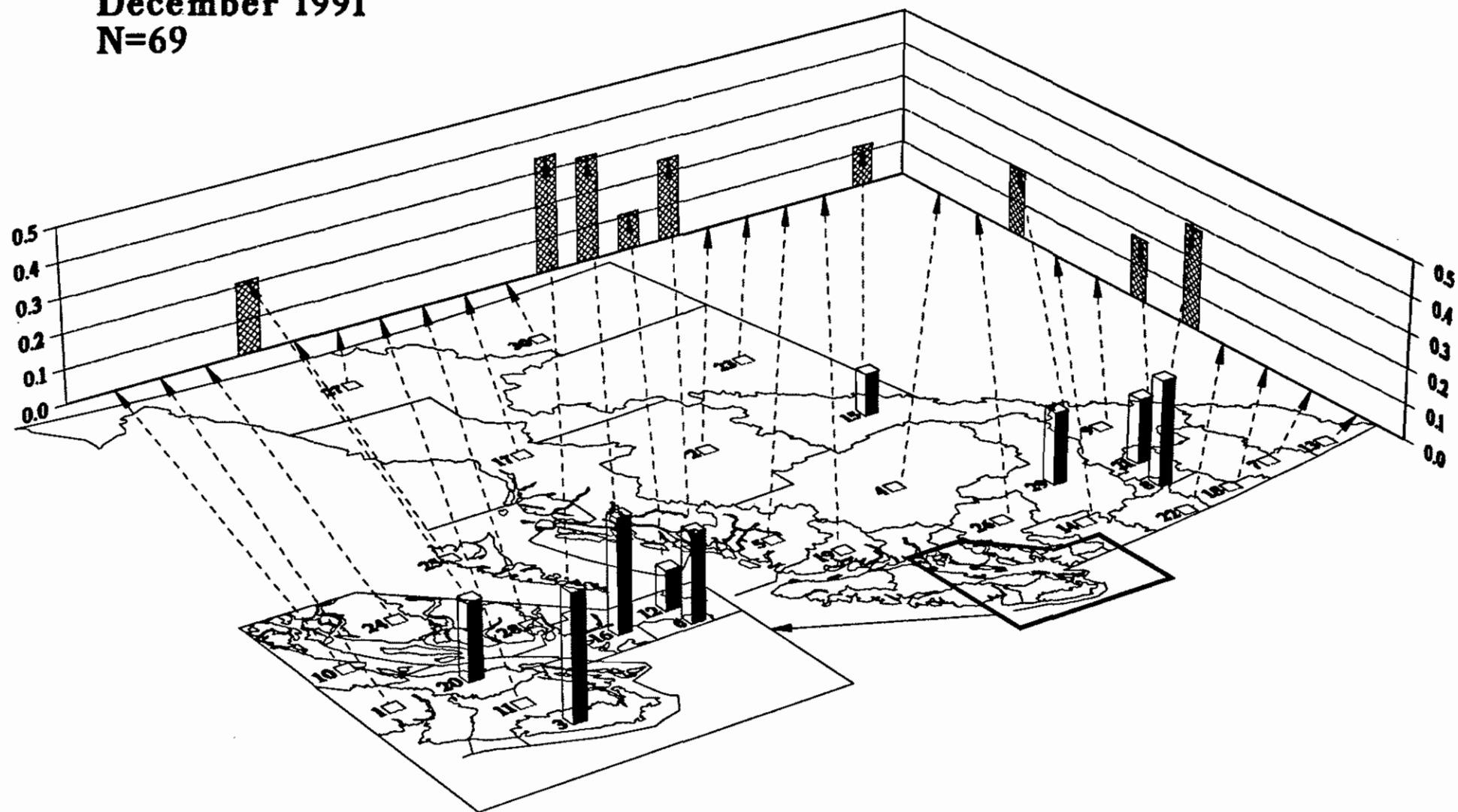


Table 1

Registered Podiatrists<sup>1</sup> in British Columbia

## by Regional Hospital District

September 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989	1991	1989 <sup>2</sup>	1991	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>9</b>	<b>12</b>	<b>0.07</b>	<b>0.09</b>	*	*
1 Alberni-Clayoquot	0	0	0.00	0.00	*	*
2 Bulkley-Nechako	0	0	0.00	0.00	*	*
4 Cariboo	0	0	0.00	0.00	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	2	2	0.26	0.24	*	*
7 Central Kootenay	1	0	0.21	0.00	*	*
8 Central Okanagan	3	3	0.31	0.29	*	*
9 Columbia-Shuswap	0	0	0.00	0.00	*	*
10 Comox-Strathcona	1	0	0.13	0.00	*	*
11 Cowichan Valley	0	0	0.00	0.00	*	*
12 Dewdney-Alouette	0	1	0.00	0.11	*	*
13 East Kootenay	0	0	0.00	0.00	*	*
14 Fraser-Cheam	0	0	0.00	0.00	*	*
15 Fraser-Fort George	0	1	0.00	0.12	*	*
17 Kitimat-Stikine	0	0	0.00	0.00	*	*
18 Kootenay Boundary	0	0	0.00	0.00	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	1	2	0.11	0.21	*	*
21 North Okanagan	0	1	0.00	0.18	*	*
22 Okanagan-Similkameen	0	0	0.00	0.00	*	*
23 Peace River	0	0	0.00	0.00	*	*
24 Powell River	0	0	0.00	0.00	*	*
25 Skeena-Queen Charlotte	0	0	0.00	0.00	*	*
26 Squamish-Lillooet	0	0	0.00	0.00	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	0	0	0.00	0.00	*	*
29 Thompson-Nicola	1	2	0.10	0.20	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>45</b>	<b>57</b>	<b>0.26</b>	<b>0.31</b>	<b>11.08</b>	<b>8.34</b>
3 Capital	9	10	0.32	0.34	*	*
16 Greater Vancouver	36	47	0.25	0.31	12.58	9.74
<b>TOTAL</b>	<b>54</b>	<b>69</b>	<b>0.18</b>	<b>0.22</b>	<b>11.51</b>	<b>9.16</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.<sup>3</sup>Rate of change (in percent) in the number.<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Registered Podiatrists<sup>1</sup> in British Columbia  
by Regional Hospital District by Age and Sex  
December 1991

Regional Hospital District	25-34		35-44		45-54		55-64		65+		Subtotal		Unknown	Total
	M	F	M	F	M	F	M	F	M	F	M	F		
<b>Non-Metropolitan - Subtotal</b>	<b>3</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>3</b>	<b>12</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4 Cariboo	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	2	0	0	0	0	0	0	0	2	0	0	2
7 Central Kootenay	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8 Central Okanagan	1	0	1	0	0	0	0	0	1	0	3	0	0	3
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Comox-Strathcona	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11 Cowichan Valley	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12 Dewdney-Alouette	0	0	0	0	0	0	0	0	0	0	0	0	1	1
13 East Kootenay	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15 Fraser-Fort George	0	0	0	0	0	0	0	0	0	0	0	0	1	1
17 Kitimat-Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	0	1	0	0	0	0	0	1	0	2	0	0	2
21 North Okanagan	1	0	0	0	0	0	0	0	0	0	1	0	0	1
22 Okanagan-Similkameen	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23 Peace River	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29 Thompson-Nicola	1	0	0	0	0	0	0	0	0	0	1	0	1	2
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>10</b>	<b>2</b>	<b>16</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>47</b>	<b>3</b>	<b>7</b>	<b>57</b>
3 Capital	2	0	4	0	3	0	0	0	1	0	10	0	0	10
16 Greater Vancouver	8	2	12	1	8	0	1	0	8	0	37	3	7	47
<b>TOTAL</b>	<b>13</b>	<b>2</b>	<b>20</b>	<b>1</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>11</b>	<b>0</b>	<b>56</b>	<b>3</b>	<b>10</b>	<b>69</b>

<sup>1</sup> Definitions are as in the attached text.

## **VI. NURSING SERVICES**





## LICENSED PRACTICAL NURSES



## LICENSED PRACTICAL NURSES

**Definition:** A Licensed Practical Nurse

"may be employed in a wide variety of health care settings and may carry out such nursing duties related to the care of patients as is consistent with her training and ability. All such duties are to be carried out under the direction of a duly qualified physician who is attending the patient, or under the supervision of a graduate nurse who is rendering service to the patient, except in an emergency when the services of a licensed practical nurse may be urgently required. Provided that the attending physician gives directions and assumes responsibility with respect to the ability of the licensed practical nurse (LPN) to carry out such services in a satisfactory manner, an LPN may also undertake nursing service for a patient in a private home."<sup>1</sup>

**Governing Statute:** Nurses (Licensed Practical) Act, Revised Statutes of British Columbia, 1979, Chapter 300; Nursing Statutes Amendment Act, 1988, Chapter 51, Sections 1-3; administered by the Ministry of Health.

**Governing Body:** British Columbia Council of Licensed Practical Nurses (BCCLPN). Only persons licensed by the BCCLPN may use the titles: *Licensed Practical Nurse* or *LPN*.

**Date of Record:** September 1989 and September 1991.

**Source of Data:** British Columbia Council of Licensed Practical Nurses.

**Preparation and Updating:**

The tables, derived from the register of the British Columbia Council of Licensed Practical Nurses, include licensed practical nurses who were British Columbia residents at the date of record.

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<sup>1</sup>From information provided by the British Columbia Council of Licensed Practical Nurses.

**Definition of Terms:****1. Employment Status**

Employment status was reported by the registrant on the annual licence renewal form. Table 1 shows LPNs by employment status. The categories used are:

- (a) Regular Employment in Nursing;
- (b) Casual/Seasonal Employment in Nursing;
- (c) Employed in Other than Nursing;
- (d) Not Employed.

**2. Age and Sex**

Age and sex information on Licensed Practical Nurses in British Columbia, derived from the BCCLPN registration database, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

**3. Place of Employment**

Place of employment was reported by the registrant on the annual licence renewal form. Tables 4 and 5 show type of employing institution for licensed practical nurses employed in nursing. The categories used are:

- (a) Acute Care Hospital;
- (b) Activation/Rehabilitation Hospital;
- (c) Extended Care Hospital;
- (d) Other Long Term Care Facility;
- (e) Psychiatric Hospital;
- (f) Home Care or Visiting Care Agency;
- (g) Community Health Agency;
- (h) Physician's Office/Family Practice Unit;
- (i) Educational Institution;
- (j) Business/Industry;
- (k) Other.

#### 4. Field of Practice

Field of practice was reported by the registrant on the annual licence renewal form. Tables 6 and 7 show field of practice for licensed practical nurses employed in nursing. The categories used are:

- (a) Medical/Surgical General;
- (b) Medical/Surgical Specialties (e.g., ICU, OR, Emergency, Dialysis);
- (c) Maternal/Newborn;
- (d) Psychiatric;
- (e) Paediatric;
- (f) Geriatric;
- (g) Generalized Practice (e.g., Float Pool, Small General Hospital);
- (h) Teaching;
- (i) Administration;
- (j) Rehabilitation;
- (k) Other.

#### 5. Job Title

Job title was reported by the registrant on the annual licence renewal form. Tables 8 and 9 show job title for licensed practical nurses employed in nursing. The categories used are:

- (a) LPN;
- (b) Long Term Care Aide (e.g., Patient Care Aide, Activity Aide);
- (c) Orderly;
- (d) Other.

#### 6. Analysis of Change

Table 10 illustrates key sources of change which may have affected the stock of practising Licensed Practical Nurses from 1989 to 1991.

*New registrants* include all nurses who were practising members as of September 1991 and who registered with the BCCLPN for the first time subsequent to September 1989. New registrants are recorded according to their place of graduation, i.e., from B.C., Other Canadian Provinces (O.Can.) or Other.

*Re-activations* (Re-Act) represent those nurses who did not renew practising membership in September 1989 but were practising members in B.C. in September 1991, and whose date of initial registration was before September 1989.

*Attrition* (Attr'n) describes those Licensed Practical Nurses who were included in the 1989 Licensed Practical Nurse stock, but who, because of death, retirement, out-of-province relocation or non-renewal of registration, were not included in the 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of Licensed Practical Nurses among different Regional Hospital Districts. The net migration total is therefore zero.

**Licensed Practical Nurses  
Employed in Nursing  
per 10,000 Population  
by Regional Hospital District  
September 1991  
N=4842**

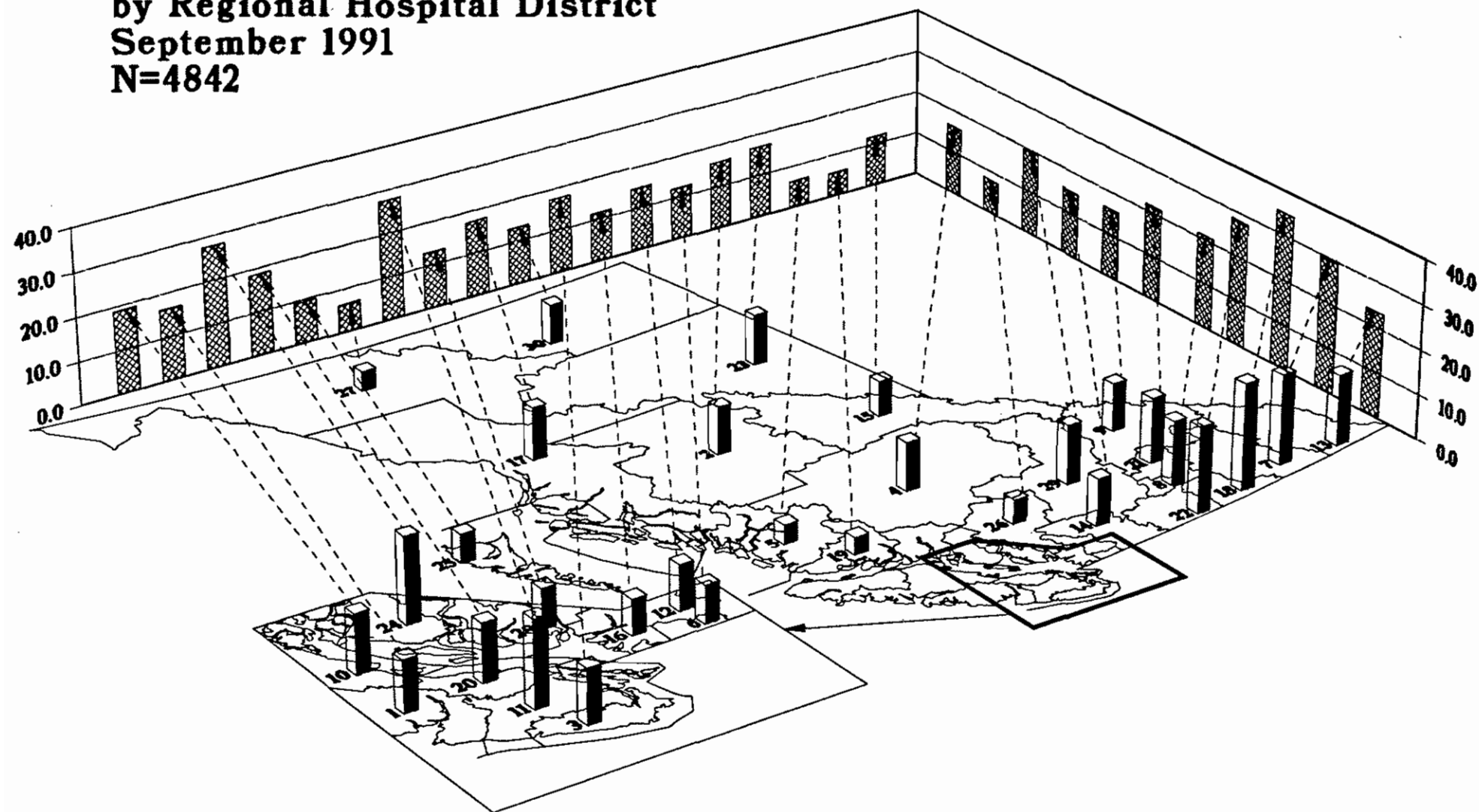


Table 1

**Licensed Practical Nurses<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**September 1991**

Regional Hospital District	Employed in Nursing			Employed in Other than Nursing	Not Employed	Unknown	Total
	Regular	Casual/ Seasonal	Subtotal <sup>2</sup>				
<b>Non-Metropolitan - Subtotal</b>	<b>1,824</b>	<b>742</b>	<b>2,567</b>	<b>316</b>	<b>416</b>	<b>45</b>	<b>3,344</b>
1 Alberni-Clayoquot	33	17	50	11	6	0	67
2 Bulkley-Nechako	43	17	60	12	11	2	85
4 Cariboo	67	29	96	16	15	1	128
5 Central Coast	2	0	2	0	0	0	2
6 Central Fraser Valley	74	30	104	9	17	1	131
7 Central Kootenay	109	40	149	15	26	2	192
8 Central Okanagan	160	59	219	25	39	7	290
9 Columbia-Shuswap	42	22	64	6	17	3	90
10 Comox-Strathcona	109	44	153	24	16	6	199
11 Cowichan Valley	116	40	157	20	40	2	219
12 Dewdney-Alouette	92	43	135	11	23	4	173
13 East Kootenay	84	27	111	13	11	0	135
14 Fraser-Cheam	79	23	102	7	12	2	123
15 Fraser-Fort George	60	43	103	19	20	3	145
17 Kitimat-Stikine	55	16	71	7	7	0	85
18 Kootenay Boundary	70	35	105	7	11	2	125
19 Mount Waddington	8	0	8	6	4	0	18
20 Nanaimo	113	62	175	34	38	2	249
21 North Okanagan	91	32	123	16	21	4	164
22 Okanagan-Similkameen	130	49	179	8	18	0	205
23 Peace River	61	22	83	10	14	1	108
24 Powell River	37	14	51	7	6	1	65
25 Skeena-Queen Charlotte	13	9	22	3	4	0	29
26 Squamish-Lillooet	14	4	18	2	7	0	27
27 Stikine	0	1	1	1	0	0	2
28 Sunshine Coast	18	6	24	1	2	1	28
29 Thompson-Nicola	140	56	196	24	28	1	249
30 Fort Nelson/Liard	4	2	6	2	3	0	11
<b>Metropolitan - Subtotal</b>	<b>1,746</b>	<b>529</b>	<b>2,275</b>	<b>240</b>	<b>259</b>	<b>51</b>	<b>2,825</b>
3 Capital	411	109	520	65	76	12	673
16 Greater Vancouver	1,335	420	1,755	175	183	39	2,152
<b>TOTAL</b>	<b>3,570</b>	<b>1,271</b>	<b>4,842</b>	<b>556</b>	<b>675</b>	<b>96</b>	<b>6,169</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 1 LPN who has indicated employment in nursing but did not specify regular or casual employment.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 2

Licensed Practical Nurses<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

September 1991

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Subtotal		Total <sup>2</sup>
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>3</b>	<b>64</b>	<b>29</b>	<b>650</b>	<b>44</b>	<b>1,356</b>	<b>34</b>	<b>793</b>	<b>10</b>	<b>266</b>	<b>3</b>	<b>85</b>	<b>123</b>	<b>3,214</b>	<b>3,344</b>
1 Alberni-Clayoquot	0	2	1	13	1	32	0	13	0	4	0	1	2	65	67
2 Bulkley-Nechako	0	0	0	10	1	35	1	24	0	11	0	3	2	83	85
4 Cariboo	0	1	0	19	0	57	1	33	0	15	0	2	1	127	128
5 Central Coast	0	0	0	0	0	1	0	1	0	0	0	0	0	2	2
6 Central Fraser Valley	0	2	4	32	2	49	2	23	2	10	0	5	10	121	131
7 Central Kootenay	0	5	2	37	3	88	0	42	0	10	0	5	5	187	192
8 Central Okanagan	2	5	6	51	7	110	3	73	1	20	0	11	19	270	290
9 Columbia-Shuswap	0	2	0	13	0	39	0	25	1	7	1	2	2	88	90
10 Comox-Strathcona	0	3	3	43	0	78	1	51	0	15	0	4	4	194	199
11 Cowichan Valley	1	2	1	50	1	106	1	40	0	11	0	6	4	215	219
12 Dewdney-Alouette	0	4	2	47	0	65	2	36	0	10	0	6	4	168	173
13 East Kootenay	0	3	0	22	0	54	1	38	0	10	0	7	1	134	135
14 Fraser-Chearn	0	4	1	21	3	42	1	33	1	16	0	1	6	117	123
15 Fraser-Fort George	0	4	1	28	0	69	1	33	0	8	0	1	2	143	145
17 Kitimat-Stikine	0	1	0	9	0	37	0	23	1	10	0	4	1	84	85
18 Kootenay Boundary	0	4	1	28	0	52	1	27	0	7	0	3	2	121	125
19 Mount Waddington	0	0	0	6	0	6	0	5	0	1	0	0	0	18	18
20 Nanaimo	0	9	0	53	4	85	2	58	1	28	0	7	7	240	249
21 North Okanagan	0	1	1	23	8	63	3	42	0	17	1	5	13	151	164
22 Okanagan-Similkameen	0	3	4	33	8	69	4	56	3	20	1	4	20	185	205
23 Peace River	0	4	0	16	2	46	2	24	0	14	0	0	4	104	108
24 Powell River	0	1	1	20	0	20	0	18	0	4	0	1	1	64	65
25 Skeena-Queen Charlotte	0	0	1	4	0	14	1	7	0	2	0	0	2	27	29
26 Squamish-Lillooet	0	1	0	14	0	7	0	5	0	0	0	0	0	27	27
27 Stikine	0	0	0	0	0	0	0	2	0	0	0	0	0	2	2
28 Sunshine Coast	0	1	0	6	0	14	1	4	0	2	0	0	1	27	28
29 Thompson-Nicola	0	2	0	49	4	113	6	55	0	13	0	7	10	239	249
30 Fort Nelson/Liard	0	0	0	3	0	5	0	2	0	1	0	0	0	11	11
<b>Metropolitan - Subtotal</b>	<b>5</b>	<b>93</b>	<b>63</b>	<b>507</b>	<b>132</b>	<b>942</b>	<b>82</b>	<b>638</b>	<b>29</b>	<b>241</b>	<b>6</b>	<b>75</b>	<b>317</b>	<b>2,496</b>	<b>2,825</b>
3 Capital	0	15	12	104	32	255	18	142	7	67	1	18	70	601	673
16 Greater Vancouver	5	78	51	403	100	687	64	496	22	174	5	57	247	1,895	2,152
<b>TOTAL</b>	<b>8</b>	<b>157</b>	<b>92</b>	<b>1,157</b>	<b>176</b>	<b>2,298</b>	<b>116</b>	<b>1,431</b>	<b>39</b>	<b>507</b>	<b>9</b>	<b>160</b>	<b>440</b>	<b>5,710</b>	<b>6,169</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Overall, there were 19 LPNs with incomplete age and/or sex information. They are included in the totals for their reported RHDs.

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Table 3

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District**  
**September 1989 and September 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989 <sup>2</sup>	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>2,372</b>	<b>2,567</b>	<b>17.89</b>	<b>18.65</b>	<b>4.03</b>	<b>2.12</b>
1 Alberni-Clayoquot	56	50	18.70	16.49	-5.51	-6.09
2 Bulkley-Nechako	52	60	14.04	15.83	7.42	6.16
4 Cariboo	83	96	14.24	16.16	7.55	6.54
5 Central Coast	2	2	6.27	6.29	*	*
6 Central Fraser Valley	77	104	10.06	12.23	16.22	10.25
7 Central Kootenay	138	149	28.45	29.70	3.91	2.17
8 Central Okanagan	200	219	20.46	20.97	4.64	1.25
9 Columbia-Shuswap	56	64	14.12	16.02	6.90	6.49
10 Comox-Strathcona	131	153	17.14	18.97	8.07	5.18
11 Cowichan Valley	150	157	27.18	27.65	2.31	0.87
12 Dewdney-Alouette	129	135	15.67	14.82	2.30	-2.73
13 East Kootenay	97	111	19.94	23.41	6.97	8.36
14 Fraser-Cheam	80	102	12.71	15.37	12.92	9.98
15 Fraser-Fort George	97	103	11.25	11.85	3.05	2.64
17 Kitimat-Stikine	60	71	15.31	17.52	8.78	7.00
18 Kootenay Boundary	95	105	31.85	35.01	5.13	4.83
19 Mount Waddington	10	8	7.04	5.65	-10.56	-10.47
20 Nanaimo	184	175	20.84	18.64	-2.48	-5.41
21 North Okanagan	109	123	19.40	21.55	6.23	5.39
22 Okanagan-Similkameen	164	179	26.49	28.17	4.47	3.13
23 Peace River	84	83	17.02	16.95	-0.60	-0.22
24 Powell River	42	51	23.10	27.76	10.19	9.63
25 Skeena-Queen Charlotte	21	22	9.17	9.51	2.35	1.82
26 Squamish-Lillooet	20	18	9.33	7.96	-5.13	-7.68
27 Stikine	0	1	0.00	6.56	*	*
28 Sunshine Coast	21	24	11.75	12.99	6.90	5.15
29 Thompson-Nicola	208	196	21.25	19.62	-2.93	-3.89
30 Fort Nelson/Liard	6	6	12.80	13.33	*	*
<b>Metropolitan - Subtotal</b>	<b>2,212</b>	<b>2,275</b>	<b>12.81</b>	<b>12.45</b>	<b>1.41</b>	<b>-1.40</b>
3 Capital	530	520	18.73	17.48	-0.95	-3.38
16 Greater Vancouver	1,682	1,755	11.65	11.48	2.15	-0.75
<b>TOTAL</b>	<b>4,584</b>	<b>4,842</b>	<b>15.01</b>	<b>15.12</b>	<b>2.78</b>	<b>0.34</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>The figures differ from the corresponding figures appearing in ROLLCALL 89 and ROLLCALL UPDATE 90 because of a programming error in calculating the RHD distribution which occurred in that year.

<sup>3</sup>See Foreword for explanation of changes in provincial population estimates; See note 2 above for difference in RHD distribution.

<sup>4</sup>Rate of change (in percent) in the number.

<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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Table 4

Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia

by Regional Hospital District by Place of Employment

September 1991

Regional Hospital District	Acute Care Hospital	Activation/ Rehab. Hospital	Extended Care Hospital	Long Term Care Facility	Psychiatric Hospital	Institutional Care Subtotal
<b>Non-Metropolitan - Subtotal</b>	<b>1,661</b>	<b>24</b>	<b>415</b>	<b>217</b>	<b>4</b>	<b>2,321</b>
1 Alberni-Clayoquot	37	0	5	5	0	47
2 Bulkley-Nechako	50	0	0	2	0	52
4 Cariboo	67	0	16	4	0	87
5 Central Coast	2	0	0	0	0	2
6 Central Fraser Valley	73	0	8	10	2	93
7 Central Kootenay	83	1	31	12	0	127
8 Central Okanagan	108	4	72	15	0	199
9 Columbia-Shuswap	51	0	4	5	0	60
10 Comox-Strathcona	91	0	19	25	0	135
11 Cowichan Valley	60	4	63	20	1	148
12 Dewdney-Alouette	97	5	12	10	1	125
13 East Kootenay	81	0	12	7	0	100
14 Fraser-Cheam	76	3	7	9	0	95
15 Fraser-Fort George	73	1	4	9	0	87
17 Kitimat-Stikine	56	0	5	5	0	66
18 Kootenay Boundary	69	0	20	8	0	97
19 Mount Waddington	7	0	0	0	0	7
20 Nanaimo	110	4	30	13	0	157
21 North Okanagan	60	1	41	8	0	110
22 Okanagan-Similkameen	129	0	29	10	0	168
23 Peace River	56	0	6	11	0	73
24 Powell River	28	0	11	9	0	48
25 Skeena-Queen Charlotte	16	0	1	2	0	19
26 Squamish-Lillooet	11	0	1	1	0	13
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	17	1	2	3	0	23
29 Thompson-Nicola	148	0	16	14	0	178
30 Fort Nelson/Liard	5	0	0	0	0	5
<b>Metropolitan - Subtotal</b>	<b>1,229</b>	<b>150</b>	<b>271</b>	<b>293</b>	<b>19</b>	<b>1,962</b>
3 Capital	175	78	130	77	0	460
16 Greater Vancouver	1,054	72	141	216	19	1,502
<b>TOTAL</b>	<b>2,890</b>	<b>174</b>	<b>686</b>	<b>510</b>	<b>23</b>	<b>4,283</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 4  
(Continued)

Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia  
by Regional Hospital District by Place of Employment  
September 1991

Regional Hospital District	Home Care/ Visiting Care Agency	Community Health Agency	Physician's Office/Family Practice Unit	Educational Institution	Business/ Industry	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>53</b>	<b>16</b>	<b>71</b>	<b>4</b>	<b>7</b>	<b>95</b>	<b>2,567</b>
1 Alberni-Clayoquot	1	0	0	0	0	2	50
2 Bulkley-Nechako	0	0	6	0	0	2	60
4 Cariboo	0	0	2	0	1	6	96
5 Central Coast	0	0	0	0	0	0	2
6 Central Fraser Valley	2	0	1	1	1	6	104
7 Central Kootenay	5	0	9	0	0	8	149
8 Central Okanagan	8	1	4	1	0	6	219
9 Columbia-Shuswap	0	0	1	0	0	3	64
10 Comox-Strathcona	5	1	5	1	2	4	153
11 Cowichan Valley	2	0	3	0	1	3	157
12 Dewdney-Alouette	1	3	2	0	1	3	135
13 East Kootenay	2	0	6	0	0	3	111
14 Fraser-Cheam	3	0	2	0	0	2	102
15 Fraser-Fort George	2	1	5	0	0	8	103
17 Kitimat-Stikine	0	0	3	0	0	2	71
18 Kootenay Boundary	3	1	2	0	0	2	105
19 Mount Waddington	0	0	0	0	0	1	8
20 Nanaimo	7	1	2	0	0	8	175
21 North Okanagan	6	2	0	0	0	5	123
22 Okanagan-Similkameen	5	1	2	0	0	3	179
23 Peace River	0	1	6	1	0	2	83
24 Powell River	0	1	0	0	0	2	51
25 Skeena-Queen Charlotte	0	0	0	0	0	3	22
26 Squamish-Lillooet	0	0	4	0	0	1	18
27 Stikine	0	0	0	0	0	1	1
28 Sunshine Coast	0	0	0	0	0	1	24
29 Thompson-Nicola	1	3	6	0	1	7	196
30 Fort Nelson/Liard	0	0	0	0	0	1	6
<b>Metropolitan - Subtotal</b>	<b>67</b>	<b>39</b>	<b>64</b>	<b>21</b>	<b>11</b>	<b>111</b>	<b>2,275</b>
3 Capital	20	5	15	1	3	16	520
16 Greater Vancouver	47	34	49	20	8	95	1,755
<b>TOTAL</b>	<b>120</b>	<b>55</b>	<b>135</b>	<b>25</b>	<b>18</b>	<b>206</b>	<b>4,842</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 90 LPNs who did not provide this information.

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Table 5

Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia  
per 10,000 Population by Regional Hospital District by Place of Employment  
September 1991

Regional Hospital District	Acute Care Hospital	Activation/ Rehab. Hospital	Extended Care Hospital	Long Term Care Facility	Psychiatric Hospital	Institutional Care Subtotal
<b>Non-Metropolitan - Subtotal</b>	<b>12.07</b>	<b>0.17</b>	<b>3.02</b>	<b>1.58</b>	<b>0.03</b>	<b>16.86</b>
1 Alberni-Clayoquot	12.20	0.00	1.65	1.65	0.00	15.50
2 Bulkley-Nechako	13.19	0.00	0.00	0.53	0.00	13.72
4 Cariboo	11.28	0.00	2.69	0.67	0.00	14.64
5 Central Coast	6.29	0.00	0.00	0.00	0.00	6.29
6 Central Fraser Valley	8.58	0.00	0.94	1.18	0.24	10.93
7 Central Kootenay	16.54	0.20	6.18	2.39	0.00	25.31
8 Central Okanagan	10.34	0.38	6.89	1.44	0.00	19.06
9 Columbia-Shuswap	12.76	0.00	1.00	1.25	0.00	15.02
10 Comox-Strathcona	11.28	0.00	2.36	3.10	0.00	16.74
11 Cowichan Valley	10.57	0.70	11.10	3.52	0.18	26.07
12 Dewdney-Alouette	10.65	0.55	1.32	1.10	0.11	13.73
13 East Kootenay	17.09	0.00	2.53	1.48	0.00	21.09
14 Fraser-Cheam	11.45	0.45	1.06	1.36	0.00	14.32
15 Fraser-Fort George	8.40	0.12	0.46	1.04	0.00	10.01
17 Kitimat-Stikine	13.82	0.00	1.23	1.23	0.00	16.29
18 Kootenay Boundary	23.00	0.00	6.67	2.67	0.00	32.34
19 Mount Waddington	4.94	0.00	0.00	0.00	0.00	4.94
20 Nanaimo	11.72	0.43	3.20	1.38	0.00	16.73
21 North Okanagan	10.51	0.18	7.18	1.40	0.00	19.27
22 Okanagan-Similkameen	20.30	0.00	4.56	1.57	0.00	26.44
23 Peace River	11.44	0.00	1.23	2.25	0.00	14.91
24 Powell River	15.24	0.00	5.99	4.90	0.00	26.12
25 Skeena-Queen Charlotte	6.91	0.00	0.43	0.86	0.00	8.21
26 Squamish-Lillooet	4.86	0.00	0.44	0.44	0.00	5.75
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	9.20	0.54	1.08	1.62	0.00	12.45
29 Thompson-Nicola	14.82	0.00	1.60	1.40	0.00	17.82
30 Fort Nelson/Liard	11.11	0.00	0.00	0.00	0.00	11.11
<b>Metropolitan - Subtotal</b>	<b>6.73</b>	<b>0.82</b>	<b>1.48</b>	<b>1.60</b>	<b>0.10</b>	<b>10.74</b>
3 Capital	5.88	2.62	4.37	2.59	0.00	15.46
16 Greater Vancouver	6.89	0.47	0.92	1.41	0.12	9.82
<b>TOTAL</b>	<b>9.02</b>	<b>0.54</b>	<b>2.14</b>	<b>1.59</b>	<b>0.07</b>	<b>13.37</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 5  
(Continued)

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Place of Employment**  
**September 1991**

Regional Hospital District	Home Care/ Visiting Care Agency	Community Health Agency	Physician's Office/Family Practice Unit	Educational Institution	Business/ Industry	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>0.39</b>	<b>0.12</b>	<b>0.52</b>	<b>0.03</b>	<b>0.05</b>	<b>0.69</b>	<b>18.65</b>
1 Alberni-Clayoquot	0.33	0.00	0.00	0.00	0.00	0.66	16.49
2 Bulkley-Nechako	0.00	0.00	1.58	0.00	0.00	0.53	15.83
4 Cariboo	0.00	0.00	0.34	0.00	0.17	1.01	16.16
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	6.29
6 Central Fraser Valley	0.24	0.00	0.12	0.12	0.12	0.71	12.23
7 Central Kootenay	1.00	0.00	1.79	0.00	0.00	1.59	29.70
8 Central Okanagan	0.77	0.10	0.38	0.10	0.00	0.57	20.97
9 Columbia-Shuswap	0.00	0.00	0.25	0.00	0.00	0.75	16.02
10 Comox-Strathcona	0.62	0.12	0.62	0.12	0.25	0.50	18.97
11 Cowichan Valley	0.35	0.00	0.53	0.00	0.18	0.53	27.65
12 Dewdney-Alouette	0.11	0.33	0.22	0.00	0.11	0.33	14.82
13 East Kootenay	0.42	0.00	1.27	0.00	0.00	0.63	23.41
14 Fraser-Cheam	0.45	0.00	0.30	0.00	0.00	0.30	15.37
15 Fraser-Fort George	0.23	0.12	0.58	0.00	0.00	0.92	11.85
17 Kitimat-Stikine	0.00	0.00	0.74	0.00	0.00	0.49	17.52
18 Kootenay Boundary	1.00	0.33	0.67	0.00	0.00	0.67	35.01
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.71	5.65
20 Nanaimo	0.75	0.11	0.21	0.00	0.00	0.85	18.64
21 North Okanagan	1.05	0.35	0.00	0.00	0.00	0.88	21.55
22 Okanagan-Similkameen	0.79	0.16	0.31	0.00	0.00	0.47	28.17
23 Peace River	0.00	0.20	1.23	0.20	0.00	0.41	16.95
24 Powell River	0.00	0.54	0.00	0.00	0.00	1.09	27.76
25 Skeena-Queen Charlotte	0.00	0.00	0.00	0.00	0.00	1.30	9.51
26 Squamish-Lillooet	0.00	0.00	1.77	0.00	0.00	0.44	7.96
27 Stikine	0.00	0.00	0.00	0.00	0.00	6.56	6.56
28 Sunshine Coast	0.00	0.00	0.00	0.00	0.00	0.54	12.99
29 Thompson-Nicola	0.10	0.30	0.60	0.00	0.10	0.70	19.62
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	2.22	13.33
<b>Metropolitan - Subtotal</b>	<b>0.37</b>	<b>0.21</b>	<b>0.35</b>	<b>0.11</b>	<b>0.06</b>	<b>0.61</b>	<b>12.45</b>
3 Capital	0.67	0.17	0.50	0.03	0.10	0.54	17.48
16 Greater Vancouver	0.31	0.22	0.32	0.13	0.05	0.62	11.48
<b>TOTAL</b>	<b>0.37</b>	<b>0.17</b>	<b>0.42</b>	<b>0.08</b>	<b>0.06</b>	<b>0.64</b>	<b>15.12</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 90 LPNs who did not provide this information (see Table 4).

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The University of British Columbia

Table 6

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District by Field of Practice**  
**September 1991**

<b>Regional Hospital District</b>	<b>Medical/ Surgical General</b>	<b>Medical/ Surgical Specialties</b>	<b>Maternal/ Newborn</b>	<b>Psychiatric</b>	<b>Paediatric</b>	<b>Geriatric</b>
<b>Non-Metropolitan - Subtotal</b>	<b>1,001</b>	<b>68</b>	<b>54</b>	<b>34</b>	<b>68</b>	<b>683</b>
1 Alberni-Clayoquot	15	0	0	1	0	15
2 Bulkley-Nechako	23	0	0	0	1	2
4 Cariboo	34	5	2	0	1	21
5 Central Coast	1	0	0	0	0	0
6 Central Fraser Valley	60	1	0	8	1	19
7 Central Kootenay	46	2	1	1	2	50
8 Central Okanagan	79	4	6	3	2	92
9 Columbia-Shuswap	28	0	0	0	0	16
10 Comox-Strathcona	60	5	0	1	0	53
11 Cowichan Valley	36	2	2	4	5	82
12 Dewdney-Alouette	53	2	9	4	2	28
13 East Kootenay	52	2	0	0	0	19
14 Fraser-Cheam	46	1	3	0	4	18
15 Fraser-Fort George	39	9	8	2	5	13
17 Kitimat-Stikine	27	5	8	1	5	8
18 Kootenay Boundary	37	3	0	1	4	34
19 Mount Waddington	2	0	0	0	0	1
20 Nanaimo	80	3	2	1	5	48
21 North Okanagan	29	0	0	3	7	51
22 Okanagan-Similkameen	77	11	1	2	4	40
23 Peace River	32	1	4	0	8	16
24 Powell River	18	0	0	2	0	20
25 Skeena-Queen Charlotte	13	0	1	0	1	4
26 Squamish-Lillooet	3	0	0	0	0	2
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	12	0	0	0	1	3
29 Thompson-Nicola	97	12	7	0	10	28
30 Fort Nelson/Liard	2	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>740</b>	<b>149</b>	<b>65</b>	<b>51</b>	<b>52</b>	<b>637</b>
3 Capital	103	37	0	5	2	230
16 Greater Vancouver	637	112	65	46	50	407
<b>TOTAL</b>	<b>1,741</b>	<b>217</b>	<b>119</b>	<b>85</b>	<b>120</b>	<b>1,320</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 6  
(Continued)

Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia  
by Regional Hospital District by Field of Practice  
September 1991

Regional Hospital District	Generalized Practice	Teaching	Administration	Rehabilitation	Other	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>309</b>	<b>4</b>	<b>10</b>	<b>53</b>	<b>147</b>	<b>136</b>	<b>2,567</b>
1 Alberni-Clayoquot	13	0	0	0	4	2	50
2 Bulkley-Nechako	24	0	1	0	6	3	60
4 Cariboo	13	1	0	1	8	10	96
5 Central Coast	1	0	0	0	0	0	2
6 Central Fraser Valley	5	1	0	1	4	4	104
7 Central Kootenay	25	0	2	2	8	10	149
8 Central Okanagan	3	0	0	10	7	13	219
9 Columbia-Shuswap	14	0	0	0	0	6	64
10 Comox-Strathcona	9	2	0	0	11	12	153
11 Cowichan Valley	10	0	0	6	8	2	157
12 Dewdney-Alouette	17	0	1	4	8	7	135
13 East Kootenay	20	0	2	2	10	4	111
14 Fraser-Cheam	15	0	1	5	6	3	102
15 Fraser-Fort George	9	0	0	3	11	4	103
17 Kitimat-Stikine	8	0	0	1	4	4	71
18 Kootenay Boundary	14	0	0	3	3	6	105
19 Mount Waddington	4	0	0	0	0	1	8
20 Nanaimo	14	0	0	5	7	10	175
21 North Okanagan	14	0	2	0	6	11	123
22 Okanagan-Similkameen	21	0	1	3	13	6	179
23 Peace River	13	0	0	1	4	4	83
24 Powell River	7	0	0	0	1	3	51
25 Skeena-Queen Charlotte	2	0	0	0	0	1	22
26 Squamish-Lillooet	10	0	0	0	3	0	18
27 Stikine	0	0	0	0	0	1	1
28 Sunshine Coast	6	0	0	1	1	0	24
29 Thompson-Nicola	15	0	0	5	14	8	196
30 Fort Nelson/Liard	3	0	0	0	0	1	6
<b>Metropolitan - Subtotal</b>	<b>134</b>	<b>12</b>	<b>17</b>	<b>137</b>	<b>158</b>	<b>123</b>	<b>2,275</b>
3 Capital	20	3	5	61	29	25	520
16 Greater Vancouver	114	9	12	76	129	98	1,755
<b>TOTAL</b>	<b>443</b>	<b>16</b>	<b>27</b>	<b>190</b>	<b>305</b>	<b>259</b>	<b>4,842</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 7

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Field of Practice**  
**September 1991**

Regional Hospital District	Medical/ Surgical General	Medical/ Surgical Specialties	Maternal/ Newborn	Psychiatric	Paediatric	Geriatric
<b>Non-Metropolitan - Subtotal</b>	<b>7.27</b>	<b>0.49</b>	<b>0.39</b>	<b>0.25</b>	<b>0.49</b>	<b>4.96</b>
1 Alberni-Clayoquot	4.95	0.00	0.00	0.33	0.00	4.95
2 Bulkley-Nechako	6.07	0.00	0.00	0.00	0.26	0.53
4 Cariboo	5.72	0.84	0.34	0.00	0.17	3.53
5 Central Coast	3.14	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	7.05	0.12	0.00	0.94	0.12	2.23
7 Central Kootenay	9.17	0.40	0.20	0.20	0.40	9.97
8 Central Okanagan	7.56	0.38	0.57	0.29	0.19	8.81
9 Columbia-Shuswap	7.01	0.00	0.00	0.00	0.00	4.00
10 Comox-Strathcona	7.44	0.62	0.00	0.12	0.00	6.57
11 Cowichan Valley	6.34	0.35	0.35	0.70	0.88	14.44
12 Dewdney-Alouette	5.82	0.22	0.99	0.44	0.22	3.07
13 East Kootenay	10.97	0.42	0.00	0.00	0.00	4.01
14 Fraser-Chern	6.93	0.15	0.45	0.00	0.60	2.71
15 Fraser-Fort George	4.49	1.04	0.92	0.23	0.58	1.50
17 Kitimat-Stikine	6.66	1.23	1.97	0.25	1.23	1.97
18 Kootenay Boundary	12.34	1.00	0.00	0.33	1.33	11.34
19 Mount Waddington	1.41	0.00	0.00	0.00	0.00	0.71
20 Nanaimo	8.52	0.32	0.21	0.11	0.53	5.11
21 North Okanagan	5.08	0.00	0.00	0.53	1.23	8.93
22 Okanagan-Similkameen	12.12	1.73	0.16	0.31	0.63	6.30
23 Peace River	6.53	0.20	0.82	0.00	1.63	3.27
24 Powell River	9.80	0.00	0.00	1.09	0.00	10.88
25 Skeena-Queen Charlotte	5.62	0.00	0.43	0.00	0.43	1.73
26 Squamish-Lillooet	1.33	0.00	0.00	0.00	0.00	0.88
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	6.50	0.00	0.00	0.00	0.54	1.62
29 Thompson-Nicola	9.71	1.20	0.70	0.00	1.00	2.80
30 Fort Nelson/Liard	4.44	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>4.05</b>	<b>0.82</b>	<b>0.36</b>	<b>0.28</b>	<b>0.28</b>	<b>3.49</b>
3 Capital	3.46	1.24	0.00	0.17	0.07	7.73
16 Greater Vancouver	4.17	0.73	0.43	0.30	0.33	2.66
<b>TOTAL</b>	<b>5.44</b>	<b>0.68</b>	<b>0.37</b>	<b>0.27</b>	<b>0.37</b>	<b>4.12</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued



Table 7  
(Continued)

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Field of Practice**  
**September 1991**

Regional Hospital District	Generalized Practice	Teaching	Administration	Rehabilitation	Other	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>2.25</b>	<b>0.03</b>	<b>0.07</b>	<b>0.39</b>	<b>1.07</b>	<b>0.99</b>	<b>18.65</b>
1 Alberni-Clayoquot	4.29	0.00	0.00	0.00	1.32	0.66	16.49
2 Bulkley-Nechako	6.33	0.00	0.26	0.00	1.58	0.79	15.83
4 Cariboo	2.19	0.17	0.00	0.17	1.35	1.68	16.16
5 Central Coast	3.14	0.00	0.00	0.00	0.00	0.00	6.29
6 Central Fraser Valley	0.59	0.12	0.00	0.12	0.47	0.47	12.23
7 Central Kootenay	4.98	0.00	0.40	0.40	1.59	1.99	29.70
8 Central Okanagan	0.29	0.00	0.00	0.96	0.67	1.24	20.97
9 Columbia-Shuswap	3.50	0.00	0.00	0.00	0.00	1.50	16.02
10 Comox-Strathcona	1.12	0.25	0.00	0.00	1.36	1.49	18.97
11 Cowichan Valley	1.76	0.00	0.00	1.06	1.41	0.35	27.65
12 Dewdney-Alouette	1.87	0.00	0.11	0.44	0.88	0.77	14.82
13 East Kootenay	4.22	0.00	0.42	0.42	2.11	0.84	23.41
14 Fraser-Cheam	2.26	0.00	0.15	0.75	0.90	0.45	15.37
15 Fraser-Fort George	1.04	0.00	0.00	0.35	1.27	0.46	11.85
17 Kitimat-Stikine	1.97	0.00	0.00	0.25	0.99	0.99	17.52
18 Kootenay Boundary	4.67	0.00	0.00	1.00	1.00	2.00	35.01
19 Mount Waddington	2.82	0.00	0.00	0.00	0.00	0.71	5.65
20 Nanaimo	1.49	0.00	0.00	0.53	0.75	1.07	18.64
21 North Okanagan	2.45	0.00	0.35	0.00	1.05	1.93	21.55
22 Okanagan-Similkameen	3.30	0.00	0.16	0.47	2.05	0.94	28.17
23 Peace River	2.65	0.00	0.00	0.20	0.82	0.82	16.95
24 Powell River	3.81	0.00	0.00	0.00	0.54	1.63	27.76
25 Skeena-Queen Charlotte	0.86	0.00	0.00	0.00	0.00	0.43	9.51
26 Squamish-Lillooet	4.42	0.00	0.00	0.00	1.33	0.00	7.96
27 Stikine	0.00	0.00	0.00	0.00	0.00	6.56	6.56
28 Sunshine Coast	3.25	0.00	0.00	0.54	0.54	0.00	12.99
29 Thompson-Nicola	1.50	0.00	0.00	0.50	1.40	0.80	19.62
30 Fort Nelson/Liard	6.66	0.00	0.00	0.00	0.00	2.22	13.33
<b>Metropolitan - Subtotal</b>	<b>0.73</b>	<b>0.07</b>	<b>0.09</b>	<b>0.75</b>	<b>0.86</b>	<b>0.67</b>	<b>12.45</b>
3 Capital	0.67	0.10	0.17	2.05	0.97	0.84	17.48
16 Greater Vancouver	0.75	0.06	0.08	0.50	0.84	0.64	11.48
<b>TOTAL</b>	<b>1.38</b>	<b>0.05</b>	<b>0.08</b>	<b>0.59</b>	<b>0.95</b>	<b>0.81</b>	<b>15.12</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 8

Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia  
by Regional Hospital District by Job Title  
September 1991

Regional Hospital District	LPN	Long Term Care Aide	Orderly	Other	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1,958</b>	<b>288</b>	<b>41</b>	<b>182</b>	<b>98</b>	<b>2,567</b>
1 Alberni-Clayoquot	39	7	0	2	2	50
2 Bulkley-Nechako	54	1	0	3	2	60
4 Cariboo	70	11	0	6	9	96
5 Central Coast	1	1	0	0	0	2
6 Central Fraser Valley	78	13	3	6	4	104
7 Central Kootenay	113	24	0	8	4	149
8 Central Okanagan	182	14	7	7	9	219
9 Columbia-Shuswap	48	9	2	2	3	64
10 Comox-Strathcona	92	34	0	14	13	153
11 Cowichan Valley	138	10	0	8	1	157
12 Dewdney-Alouette	101	12	1	17	4	135
13 East Kootenay	77	18	0	14	2	111
14 Fraser-Chcam	80	8	0	12	2	102
15 Fraser-Fort George	70	11	3	14	5	103
17 Kitimat-Stikine	58	8	1	2	2	71
18 Kootenay Boundary	86	9	0	5	5	105
19 Mount Waddington	6	1	0	0	1	8
20 Nanaimo	121	35	0	11	8	175
21 North Okanagan	89	11	8	8	7	123
22 Okanagan-Similkameen	139	12	11	15	2	179
23 Peace River	69	5	0	6	3	83
24 Powell River	44	1	0	3	3	51
25 Skeena-Queen Charlotte	19	2	0	1	0	22
26 Squamish-Lillooet	17	1	0	0	0	18
27 Stikine	0	0	0	0	1	1
28 Sunshine Coast	19	4	0	1	0	24
29 Thompson-Nicola	143	26	5	17	5	196
30 Fort Nelson/Liard	5	0	0	0	1	6
<b>Metropolitan - Subtotal</b>	<b>1,695</b>	<b>192</b>	<b>48</b>	<b>259</b>	<b>81</b>	<b>2,275</b>
3 Capital	381	58	10	51	20	520
16 Greater Vancouver	1,314	134	38	208	61	1,755
<b>TOTAL</b>	<b>3,653</b>	<b>480</b>	<b>89</b>	<b>441</b>	<b>179</b>	<b>4,842</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 9

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Job Title**  
**September 1991**

<b>Regional Hospital District</b>	<b>LPN</b>	<b>Long Term Care Aide</b>	<b>Orderly</b>	<b>Other</b>	<b>Unknown</b>	<b>Total</b>
<b>Non-Metropolitan - Subtotal</b>	<b>14.23</b>	<b>2.09</b>	<b>0.30</b>	<b>1.32</b>	<b>0.71</b>	<b>18.65</b>
1 Alberni-Clayoquot	12.86	2.31	0.00	0.66	0.66	16.49
2 Bulkley-Nechako	14.24	0.26	0.00	0.79	0.53	15.83
4 Cariboo	11.78	1.85	0.00	1.01	1.51	16.16
5 Central Coast	3.14	3.14	0.00	0.00	0.00	6.29
6 Central Fraser Valley	9.17	1.53	0.35	0.71	0.47	12.23
7 Central Kootenay	22.52	4.78	0.00	1.59	0.80	29.70
8 Central Okanagan	17.43	1.34	0.67	0.67	0.86	20.97
9 Columbia-Shuswap	12.01	2.25	0.50	0.50	0.75	16.02
10 Comox-Strathcona	11.40	4.21	0.00	1.74	1.61	18.97
11 Cowichan Valley	24.30	1.76	0.00	1.41	0.18	27.65
12 Dewdney-Alouette	11.09	1.32	0.11	1.87	0.44	14.82
13 East Kootenay	16.24	3.80	0.00	2.95	0.42	23.41
14 Fraser-Cheam	12.06	1.21	0.00	1.81	0.30	15.37
15 Fraser-Fort George	8.05	1.27	0.35	1.61	0.58	11.85
17 Kitimat-Stikine	14.32	1.97	0.25	0.49	0.49	17.52
18 Kootenay Boundary	28.67	3.00	0.00	1.67	1.67	35.01
19 Mount Waddington	4.24	0.71	0.00	0.00	0.71	5.65
20 Nanaimo	12.89	3.73	0.00	1.17	0.85	18.64
21 North Okanagan	15.59	1.93	1.40	1.40	1.23	21.55
22 Okanagan-Similkameen	21.88	1.89	1.73	2.36	0.31	28.17
23 Peace River	14.09	1.02	0.00	1.23	0.61	16.95
24 Powell River	23.95	0.54	0.00	1.63	1.63	27.76
25 Skeena-Queen Charlotte	8.21	0.86	0.00	0.43	0.00	9.51
26 Squamish-Lillooet	7.51	0.44	0.00	0.00	0.00	7.96
27 Stikine	0.00	0.00	0.00	0.00	6.56	6.56
28 Sunshine Coast	10.29	2.17	0.00	0.54	0.00	12.99
29 Thompson-Nicola	14.32	2.60	0.50	1.70	0.50	19.62
30 Fort Nelson/Liard	11.11	0.00	0.00	0.00	2.22	13.33
<b>Metropolitan - Subtotal</b>	<b>9.28</b>	<b>1.05</b>	<b>0.26</b>	<b>1.42</b>	<b>0.44</b>	<b>12.45</b>
3 Capital	12.81	1.95	0.34	1.71	0.67	17.48
16 Greater Vancouver	8.59	0.88	0.25	1.36	0.40	11.48
<b>TOTAL</b>	<b>11.40</b>	<b>1.50</b>	<b>0.28</b>	<b>1.38</b>	<b>0.56</b>	<b>15.12</b>

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
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 The University of British Columbia

Table 10

Analysis of Change in the Number of Licensed Practical Nurses<sup>1</sup>  
in British Columbia by Regional Hospital District  
September 1989 to September 1991

Regional Hospital District	1989 <sup>1</sup>	New Registrants <sup>2</sup> by Place of Graduation				Re-Act <sup>5</sup>	Attr'n <sup>6</sup>	Migr'n <sup>7</sup>	1991 <sup>8</sup>
		B.C.	O.Can. <sup>4</sup>	Other	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>3,182</b>	<b>160</b>	<b>137</b>	<b>71</b>	<b>368</b>	<b>203</b>	<b>489</b>	<b>80</b>	<b>3,344</b>
1 Alberni-Clayoquot	77	3	1	0	4	2	13	-3	67
2 Bulkley-Nechako	74	1	2	3	6	12	8	1	85
4 Cariboo	121	5	6	2	13	10	21	5	128
5 Central Coast	2	0	0	0	0	0	0	0	2
6 Central Fraser Valley	109	4	4	3	11	8	16	19	131
7 Central Kootenay	175	13	8	1	22	10	20	5	192
8 Central Okanagan	255	26	12	0	38	19	42	20	290
9 Columbia-Shuswap	78	5	4	2	11	7	10	4	90
10 Comox-Strathcona	179	4	15	9	28	15	32	9	199
11 Cowichan Valley	210	8	3	1	12	12	28	13	219
12 Dewdney-Alouette	153	3	7	7	17	13	20	10	173
13 East Kootenay	131	3	7	0	10	11	15	-2	135
14 Fraser-Cheam	109	5	5	10	20	6	17	5	123
15 Fraser-Fort George	157	10	9	0	19	11	28	-14	145
17 Kitimat-Stikine	77	4	4	8	16	2	7	-3	85
18 Kootenay Boundary	129	8	2	1	11	5	21	1	125
19 Mount Waddington	18	2	1	0	3	1	3	-1	18
20 Nanaimo	249	21	10	0	31	7	46	8	249
21 North Okanagan	149	5	7	6	18	13	22	6	164
22 Okanagan-Similkameen	196	19	9	9	37	11	35	-4	205
23 Peace River	110	1	8	0	9	2	14	1	108
24 Powell River	62	5	2	2	9	4	10	0	65
25 Skeena-Queen Charlotte	28	0	3	1	4	3	2	-4	29
26 Squamish-Lillooet	32	0	2	1	3	2	10	0	27
27 Stikine	3	0	0	0	0	1	0	-2	2
28 Sunshine Coast	28	2	1	2	5	1	9	3	28
29 Thompson-Nicola	263	3	5	3	11	11	38	2	249
30 Fort Nelson/Liard	8	0	0	0	0	4	2	1	11
<b>Metropolitan - Subtotal</b>	<b>2,898</b>	<b>173</b>	<b>103</b>	<b>95</b>	<b>371</b>	<b>140</b>	<b>504</b>	<b>-80</b>	<b>2,825</b>
3 Capital	685	25	31	18	74	31	109	-8	673
16 Greater Vancouver	2,213	148	72	77	297	109	395	-72	2,152
<b>TOTAL</b>	<b>6,080</b>	<b>333</b>	<b>240</b>	<b>166</b>	<b>739</b>	<b>343</b>	<b>993</b>	<b>0</b>	<b>6,169</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>LPNs who were practising members in Sept 1991 and whose date of initial registration was after Sept 1989.

<sup>3</sup>Number of LPNs as at Sept 1989. These figures differ from those in ROILCALL 89. See Footnote 2, Table 3.

<sup>4</sup>Other Canada.

<sup>5</sup>LPNs who were practising members in Sept 1991 but not in Sept 1989 and who were registered for the first time before Sept 1989.

<sup>6</sup>LPNs who were practising members in Sept 1989 but not in Sept 1991.

<sup>7</sup>Net effect of intraprovincial migration.

<sup>8</sup>Number of LPNs as at Sept 1991.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

## REGISTERED NURSES



## REGISTERED NURSES

**Definition:** A Registered Nurse

functions as a practitioner, educator, administrator or researcher. The choice of role will be determined by academic preparation, experience, established policies of the employing agency, and the nurse's employment agreement. A few nurses are self-employed.

These roles are performed in a variety of services and settings: acute, extended, intermediate and personal care; public health, occupational health, colleges and universities, doctors' offices and people's homes.<sup>1</sup>

**Governing Statute:** Nurses (Registered) Act, Revised Statutes of British Columbia, 1979, Chapter 302; Nursing Statutes Amendment Act, 1988, Chapter 51 Sections 4-38; Health Statutes Amendment Act, 1990, Chapter 51, Sections 30-32; administered by the Ministry of Health.

**Governing Body:** Registered Nurses Association of British Columbia (RNABC). In order to practise as a Registered Nurse in British Columbia, it is necessary to be registered by the RNABC. Members of the RNABC who are registered nurses have exclusive use of the titles: *Registered Nurse, RN*.

**Date of Record:** June 1989 and June 1991.

**Source of Data:** Registered Nurses Association of British Columbia.

**Preparation and Updating:**

The tables that follow are derived from the register of the RNABC. Except for Tables 1b and 4b, they include only Registered Nurses (RNs) who were British Columbia residents at the date of record.

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<sup>1</sup>From information provided by the Registered Nurses Association of British Columbia. See also *Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, Nos. 3130-110 through 3131-138, pp. 52-54, Ottawa: Employment and Immigration Canada.

**Definition:** A Licensed Graduate Nurse

- (a) had been employed in British Columbia, in a capacity substantially equivalent to a registered nurse, at any time during the two years prior to September 30, 1988
- (b) had graduated from a school of nursing that has standards substantially equivalent to those of any approved school of nursing, and
- (c) had never been, and did not at the time of application to the RNABC qualify as, a registered nurse.<sup>2</sup>

**Governing Statute:** Nurses (Registered) Act, Revised Statutes of British Columbia, 1979, Chapter 302; Nursing Statutes Amendment Act, 1988, Chapter 51, Sections 4-38; Health Statutes Amendment Act, 1990, Chapter 51, Sections 30-32; administered by the Ministry of Health.

**Governing Body:** Registered Nurses Association of British Columbia (RNABC). In order to practise as a Licensed Graduate Nurse in British Columbia, it is necessary to be registered by the RNABC. Applications for membership in the RNABC as a Licensed Graduated Nurse were not possible after September 30, 1990. Members of the RNABC who are licensed graduate nurses have exclusive use of the titles: *Licensed Graduate Nurse, LGN*.

**Date of Record:** June 1991.

**Source of Data:** Registered Nurses Association of British Columbia.

**Preparation and Updating:**

Tables 1b and 4b, derived from the register of the RNABC, include only Licensed Graduate Nurses (LGNs) who were British Columbia residents at the date of record. LGNs are included for the first time in ROLLCALL 91 subsequent to the creation of this category and corresponding licensing requirements under the Nurses (Registered) Act, Revised Statutes of British Columbia, 1979, Chapter 302, as revised by the Nursing Statutes Amendment Act, 1988, Chapter 51.

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<sup>2</sup>Adapted from the Nursing Statutes Amendment Act, 1988, Chapter 51, Section 13.1.



## Definition of Terms:

### 1. Membership Status

A Registered Nurse or a Licensed Graduate Nurse may hold a *practising* or *non-practising* membership in the RNABC. A practising Registered Nurse or Licensed Graduate Nurse may or may not be employed in nursing. A non-practising Registered Nurse or Licensed Graduate Nurse who commences employment in nursing in British Columbia must convert to practising membership.

### 2. Employment Status

Total numbers of non-practising and practising Registered Nurses, as well as employment status for the latter, are shown in Tables 1a and 2. Table 3 describes average annual rates of change for all Registered Nurses.

Total numbers of non-practising and practising Licensed Graduate Nurses, as well as employment status for practising LGNs, are shown in Table 1b.

### 3. Age and Sex

Age and sex information on practising and non-practising Registered Nurses, derived from the RNABC registration database, is shown in Table 4a.

Table 4b shows age and sex information on practising and non-practising Licensed Graduate Nurses. In 1991, there were 472 female and 11 male LGNs.

Age information in the tables is grouped according to standard age categories developed and used by Statistics Canada.

### 4. Place of Employment

Principal place of employment is reported initially upon registration, and updated annually from the registration renewal form. Tables 5 and 6 show this information for practising Registered Nurses employed in nursing. The categories used are:

- (a) Acute Care Hospital;
- (b) Activation/Rehabilitation Hospital;
- (c) Extended Care Hospital;
- (d) Psychiatric Hospital;
- (e) Long Term Care Facility/Nursing Home;
- (f) Home Care/Visiting Care Agency;
- (g) Community Health Agency;
- (h) Business/Industry;
- (i) Physician's Office/Family Practice Unit;
- (j) Educational Institution;
- (k) Self-Employed;
- (l) Other.

## 5. Primary Area of Responsibility

Primary area of responsibility is reported initially upon registration, and updated annually from the registration renewal form. Tables 7 and 8 show this information for practising Registered Nurses employed in nursing. Changes made to the categories for reporting Area of Responsibility on the registration renewal form may affect the degree to which these figures can be compared from year to year. In 1989, Critical Care included Intensive Care Unit, Operating Room and Emergency Room. In 1990, Operating Room and Emergency Room were deleted from Critical Care and reported separately, and Post Anesthetic Recovery Room was added as another category. In 1991, Emergency Room was inserted back into Critical Care and Neurosciences was added as a separate category. The categories used by the RNABC in 1991 are:

### (a) Direct Patient Care

- (i) Operating Room
- (ii) Post Anesthetic Recovery Room
- (iii) Neurosciences
- (iv) Medical/Surgical
- (v) Critical Care (e.g., ICU, CCU, Emergency)
- (vi) Maternal/Newborn
- (vii) Psychiatry/Mental Health
- (viii) Paediatrics
- (ix) Geriatrics/Gerontology
- (x) Occupational Health
- (xi) Several Areas (e.g., float, small hospital, community, etc.)
- (xii) Other Patient Care

### (b) Administration

- (i) Nursing Education Administration
- (ii) Nursing Services Administration
- (iii) Other Administration

### (c) Teaching

- (i) Teaching - Students
- (ii) Teaching - Employees
- (iii) Teaching - Patients/Clients
- (iv) Teaching - Other Education

### (d) Research

## 6. Employment Position

Employment position is reported initially upon registration, and updated annually from the registration renewal form. Tables 9 and 10 show this information for practising Registered Nurses employed in nursing. The categories used are:

- (a) Director;
- (b) Associate/Assistant Director;
- (c) Supervisor/Assistant Supervisor;
- (d) Clinical Specialist/Clinician;
- (e) Head Nurse/Assistant Head Nurse;
- (f) Staff/General Duty Nurse;
- (g) Community/Occupational Health/Home Care Nurse;
- (h) Instructor/Professor;
- (i) Consultant/Counsellor;
- (j) Other.

## 7. Analysis of Change

Table 11 illustrates key sources of change which may have affected the stock of practising Registered Nurses from 1989 to 1991.

*New registrants* include all nurses who were practising members as of June 1991 and who registered with the RNABC *for the first time* subsequent to June 1989. New registrants are recorded according to their place of graduation, i.e., from B.C., Other Canadian Provinces (O.Can.) or Other.

*Re-activations* (Re-Act) represent those nurses who did not renew practising membership in June 1989 but were practising members in B.C. in June 1991, and whose date of initial registration was before June 1989.

*Attrition* (Attr'n) describes those Registered Nurses who were included in the 1989 Registered Nurse stock, but who, because of death, retirement, out-of-province relocation or non-renewal of registration, were not included in the 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of Registered Nurses among different Regional Hospital Districts. The net migration total is therefore zero.

**Practising Registered Nurses  
Employed in Nursing  
per 10,000 Population  
by Regional Hospital District  
June 1991  
N=25782**

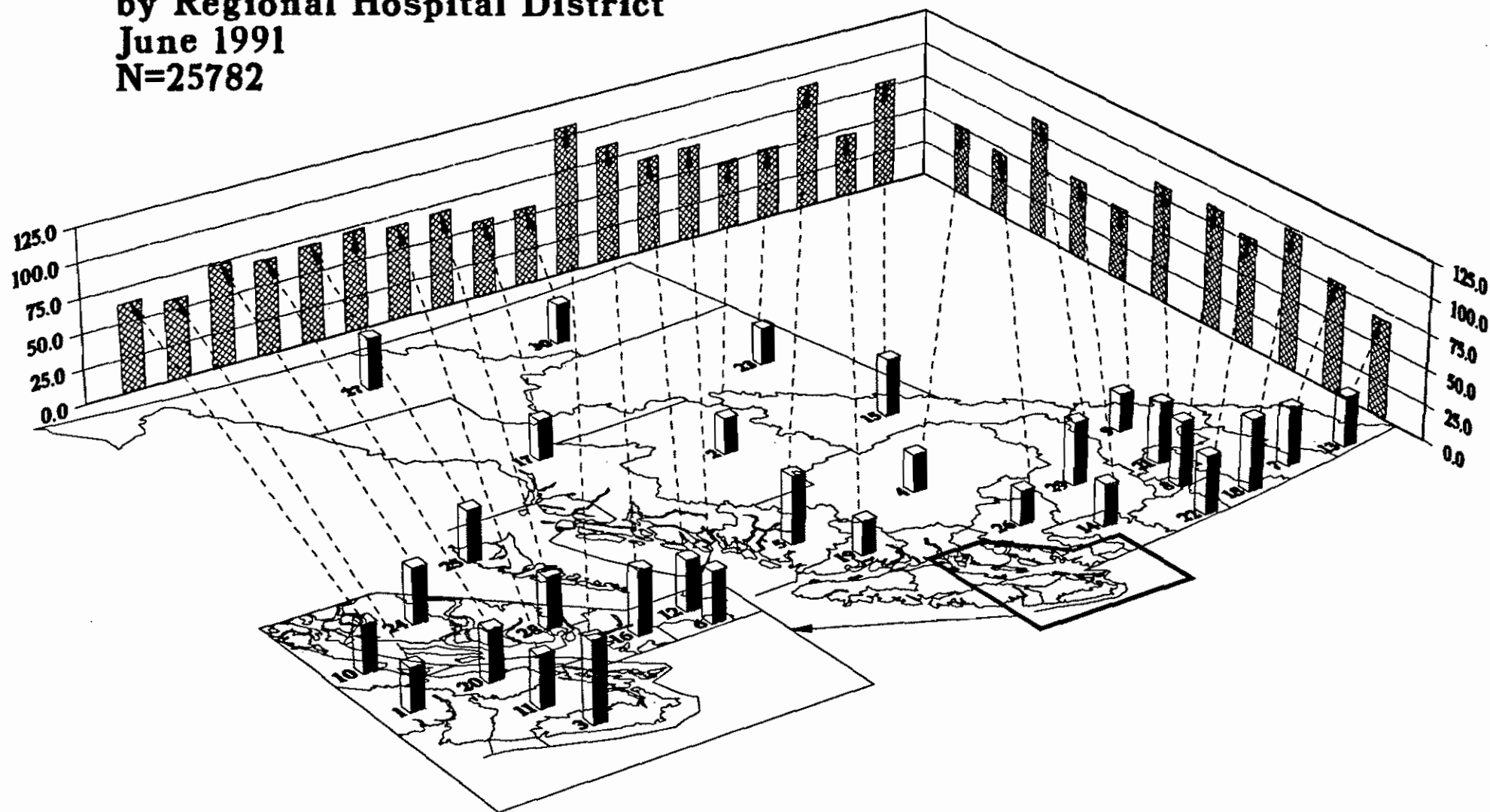


Table 1a

**Registered Nurses<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Registration and Employment Status**  
**June 1989 and June 1991**

Regional Hospital District	Practising						Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Subtotal		1989	1991	1989	1991
	1989	1991	1989	1991	1989	1991				
<b>Non-Metropolitan - Subtotal</b>	<b>8,542</b>	<b>9,547</b>	<b>354</b>	<b>428</b>	<b>8,896</b>	<b>9,975</b>	<b>974</b>	<b>973</b>	<b>9,870</b>	<b>10,948</b>
1 Alberni-Clayoquot	165	175	5	5	170	180	19	22	189	202
2 Bulkley-Nechako	165	185	13	12	178	197	22	21	200	218
4 Cariboo	271	302	14	13	285	315	24	24	309	339
5 Central Coast	20	29	1	0	21	29	2	2	23	31
6 Central Fraser Valley	481	581	22	14	503	595	59	49	562	644
7 Central Kootenay	359	393	15	22	374	415	43	48	417	463
8 Central Okanagan	781	912	24	66	805	978	97	86	902	1,064
9 Columbia-Shuswap	193	208	10	12	203	220	33	29	236	249
10 Comox-Strathcona	453	515	23	33	476	548	74	70	550	618
11 Cowichan Valley	354	382	16	22	370	404	51	59	421	463
12 Dewdney-Alouette	523	619	18	14	541	633	37	44	578	677
13 East Kootenay	320	326	8	10	328	336	26	30	354	366
14 Fraser-Cheam	338	375	17	12	355	387	38	48	393	435
15 Fraser-Fort George	604	683	25	18	629	701	46	31	675	732
17 Kitimat-Stikine	201	223	7	12	208	235	25	19	233	254
18 Kootenay Boundary	283	292	6	8	289	300	30	29	319	329
19 Mount Waddington	69	65	5	8	74	73	11	12	85	85
20 Nanaimo	532	641	31	32	563	673	88	97	651	770
21 North Okanagan	423	476	15	25	438	501	46	42	484	543
22 Okanagan-Similkameen	453	496	14	18	467	514	44	53	511	567
23 Peace River	232	252	10	13	242	265	22	19	264	284
24 Powell River	123	135	12	6	135	141	10	13	145	154
25 Skeena-Queen Charlotte	148	162	8	3	156	165	15	11	171	176
26 Squamish-Lillooet	102	105	5	11	107	116	19	24	126	140
27 Stikine	11	11	0	2	11	13	0	1	11	14
28 Sunshine Coast	110	128	4	7	114	135	19	24	133	159
29 Thompson-Nicola	805	851	25	30	830	881	71	62	901	943
30 Fort Nelson/Liard	23	25	1	0	24	25	3	4	27	29
<b>Metropolitan - Subtotal</b>	<b>15,221</b>	<b>16,217</b>	<b>675</b>	<b>608</b>	<b>15,896</b>	<b>16,825</b>	<b>1,685</b>	<b>1,493</b>	<b>17,581</b>	<b>18,318</b>
3 Capital	2,904	3,172	166	154	3,070	3,326	383	343	3,453	3,669
16 Greater Vancouver	12,317	13,045	509	454	12,826	13,499	1,302	1,150	14,128	14,649
<b>TOTAL</b>	<b>23,763</b>	<b>25,764</b>	<b>1,029</b>	<b>1,036</b>	<b>24,792</b>	<b>26,800</b>	<b>2,659</b>	<b>2,466</b>	<b>27,451</b>	<b>29,266</b>

<sup>1</sup> Definitions are as in the attached text.

Table 3

**Average Annual Rate of Change: Registered Nurses<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Registration and Employment Status**  
**June 1989 to June 1991**

Regional Hospital District	Practising				Subtotal		Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>						
<b>Non-Metropolitan - Subtotal</b>	5.72	3.78	9.96	7.94	5.89	3.95	-0.05	-1.89	5.32	3.39
1 Alberni-Clayoquot	2.99	2.35	*	*	2.90	2.27	7.61	6.94	3.38	2.75
2 Bulkley-Nechako	5.89	4.65	-3.92	-5.05	5.20	3.97	-2.30	-3.44	4.40	3.18
4 Cariboo	5.56	4.57	-3.64	-4.54	5.13	4.14	0.00	-0.94	4.74	3.76
5 Central Coast	20.42	20.62	*	*	17.51	17.72	*	*	16.10	16.30
6 Central Fraser Valley	9.90	4.26	-20.23	-24.33	8.76	3.17	-8.87	-13.55	7.05	1.55
7 Central Kootenay	4.63	2.88	21.11	19.08	5.34	3.58	5.65	3.89	5.37	3.61
8 Central Okanagan	8.06	4.55	65.83	60.44	10.22	6.64	-5.84	-8.90	8.61	5.08
9 Columbia-Shuswap	3.81	3.42	9.54	9.12	4.10	3.70	-6.26	-6.62	2.72	2.32
10 Comox-Strathcona	6.62	3.78	19.78	16.58	7.30	4.43	-2.74	-5.34	6.00	3.17
11 Cowichan Valley	3.88	2.42	17.26	15.61	4.49	3.02	7.56	6.04	4.87	3.39
12 Dewdney-Alouette	8.79	3.44	-11.81	-16.14	8.17	2.85	9.05	3.69	8.23	2.90
13 East Kootenay	0.93	2.24	*	*	1.21	2.53	7.42	8.81	1.68	3.00
14 Fraser-Chem	5.33	2.59	-15.98	-18.17	4.41	1.69	12.39	9.47	5.21	2.47
15 Fraser-Fort George	6.34	5.92	-15.15	-15.48	5.57	5.15	-17.91	-18.23	4.14	3.72
17 Kitimat-Stikine	5.33	3.60	*	*	6.29	4.55	-12.82	-14.25	4.41	2.70
18 Kootenay Boundary	1.58	1.29	*	*	1.89	1.60	-1.68	-1.96	1.56	1.27
19 Mount Waddington	-2.94	-2.84	*	*	-0.68	-0.58	4.45	4.55	0.00	0.10
20 Nanaimo	9.77	6.47	1.60	-1.45	9.33	6.05	4.99	1.84	8.76	5.49
21 North Okanagan	6.08	5.25	29.10	28.08	6.95	6.11	-4.45	-5.20	5.92	5.09
22 Okanagan-Similkameen	4.64	3.30	13.39	11.93	4.91	3.57	9.75	8.34	5.34	3.99
23 Peace River	4.22	4.62	14.02	14.45	4.64	5.04	-7.07	-6.71	3.72	4.11
24 Powell River	4.76	4.22	-29.29	-29.65	2.20	1.67	14.02	13.43	3.06	2.53
25 Skeena-Queen Charlotte	4.62	4.07	*	*	2.84	2.31	-14.37	-14.81	1.45	0.92
26 Squamish-Lillooet	1.46	-1.27	*	*	4.12	1.32	12.39	9.37	5.41	2.58
27 Stikine	0.00	1.92	*	*	8.71	10.80	*	*	12.82	14.98
28 Sunshine Coast	7.87	6.10	*	*	8.82	7.03	12.39	10.54	9.34	7.54
29 Thompson-Nicola	2.82	1.80	9.54	8.46	3.03	2.00	-6.55	-7.48	2.30	1.29
30 Fort Nelson/Liard	4.26	6.38	*	*	2.06	4.14	*	*	3.64	5.75
<b>Metropolitan - Subtotal</b>	3.22	0.36	-5.09	-7.72	2.88	0.03	-5.87	-8.48	2.07	-0.75
3 Capital	4.51	1.94	-3.68	-6.05	4.09	1.53	-5.37	-7.69	3.08	0.55
16 Greater Vancouver	2.91	0.00	-5.56	-8.23	2.59	-0.31	-6.02	-8.68	1.83	-1.06
<b>TOTAL</b>	4.13	1.66	0.34	-2.04	3.97	1.51	-3.70	-5.98	3.25	0.81

<sup>1</sup> Definitions are as in the attached text.<sup>2</sup> Rate of change (in percent) in the number.<sup>3</sup> Rate of change (in percent) in the number per 10,000 population.

\* Indicates that the base for the rate of change is less than 10.

Table 5

**Practising Registered Nurses<sup>1</sup> in British Columbia  
by Regional Hospital District by Place of Employment**

**June 1991**

Regional Hospital District	Acute Care Hospital	Activation/ Rehab. Hospital	Extended Care Hospital	Psychiatric Hospital	Hospital Subtotal	LTC Facility/ Nursing Home	Home Care/ Visiting Care Agency	Community Health Agency	Business/ Industry	Physician's Office/ FPU	Educ. Institution	Self- Employed	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>6,445</b>	<b>18</b>	<b>472</b>	<b>51</b>	<b>6,986</b>	<b>736</b>	<b>342</b>	<b>632</b>	<b>35</b>	<b>243</b>	<b>212</b>	<b>54</b>	<b>307</b>	<b>9,547</b>
1 Alberni-Clayoquot	119	0	0	0	119	11	7	14	0	9	3	2	10	175
2 Bulkley-Nechako	119	0	2	0	121	17	3	33	0	4	1	0	6	185
4 Cariboo	208	0	13	0	221	19	15	23	0	9	7	0	8	302
5 Central Coast	24	0	0	0	24	0	0	3	0	1	0	0	1	29
6 Central Fraser Valley	363	1	41	8	413	76	14	30	0	12	7	6	23	581
7 Central Kootenay	246	0	21	0	267	45	19	32	1	4	12	3	10	393
8 Central Okanagan	570	5	74	0	649	81	36	46	6	44	28	4	18	912
9 Columbia-Shuswap	147	0	4	0	151	18	4	17	0	7	2	3	6	208
10 Comox-Strathcona	360	1	17	1	379	33	16	34	1	18	13	3	18	515
11 Cowichan Valley	242	0	27	1	270	30	17	27	0	11	10	4	13	382
12 Dewdney-Alouette	433	3	35	35	506	33	14	24	1	10	11	1	19	619
13 East Kootenay	229	0	12	0	241	27	18	22	0	6	5	0	7	326
14 Fraser-Cheam	249	0	27	4	280	37	12	20	0	3	2	3	18	375
15 Fraser-Fort George	517	4	11	0	532	23	14	36	4	10	25	6	33	683
17 Kitimat-Stikine	163	1	2	0	166	2	8	26	4	7	3	0	7	223
18 Kootenay Boundary	198	0	22	0	220	20	14	17	4	10	4	0	3	292
19 Mount Waddington	56	0	0	0	56	0	0	7	0	1	1	0	0	65
20 Nanaimo	396	1	32	1	430	64	26	47	2	21	25	6	20	641
21 North Okanagan	337	0	24	0	361	32	18	22	3	10	6	5	19	476
22 Okanagan-Similkameen	335	1	31	1	368	60	20	18	1	14	4	2	9	496
23 Peace River	156	0	10	0	166	29	14	25	2	4	5	0	7	252
24 Powell River	91	0	6	0	97	11	7	9	0	6	2	1	2	135
25 Skeena-Queen Charlotte	115	1	1	0	117	9	3	24	0	5	0	0	4	162
26 Squamish-Lillooet	69	0	2	0	71	7	3	9	0	3	0	0	12	105
27 Stikine	7	0	0	0	7	0	0	2	0	1	0	0	1	11
28 Sunshine Coast	72	0	11	0	83	19	5	11	1	6	0	0	3	128
29 Thompson-Nicola	604	0	47	0	651	33	35	53	5	6	35	5	28	851
30 Fort Nelson/Liard	20	0	0	0	20	0	0	1	0	1	1	0	2	25
<b>Metropolitan - Subtotal</b>	<b>10,940</b>	<b>226</b>	<b>849</b>	<b>248</b>	<b>12,263</b>	<b>954</b>	<b>461</b>	<b>914</b>	<b>145</b>	<b>294</b>	<b>460</b>	<b>152</b>	<b>574</b>	<b>16,217</b>
3 Capital	1,884	58	260	71	2,273	295	124	172	13	67	76	26	126	3,172
16 Greater Vancouver	9,056	168	589	177	9,990	659	337	742	132	227	384	126	448	13,045
<b>TOTAL</b>	<b>17,385</b>	<b>244</b>	<b>1,321</b>	<b>299</b>	<b>19,249</b>	<b>1,690</b>	<b>803</b>	<b>1,546</b>	<b>180</b>	<b>537</b>	<b>672</b>	<b>206</b>	<b>881</b>	<b>25,764</b>

<sup>1</sup> Definitions are as in the attached text.

<sup>2</sup> Includes 248 Registered Nurses who did not provide this information.

Table 7

**Practising Registered Nurses Employed in Nursing<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Primary Area of Responsibility**  
**June 1991**

Regional Hospital District	Direct Patient Care												Subtotal
	Operating Room	Post-Anesth. Recovery Room	Neuro-Sciences	Medical/Surgical	Critical Care <sup>2</sup>	Maternal/Newborn	Psychiatric/Mental Health	Paediatrics	Geriatrics/Gerontology	Occupational Health	Several Areas <sup>3</sup>	Other Patient Care	
<b>Non-Metropolitan - Subtotal</b>	426	143	9	2,185	1,087	747	371	327	1,271	71	1,445	454	8,536
1 Alberni-Clayoquot	7	0	1	46	17	15	9	2	18	0	34	10	159
2 Bulkley-Nechako	6	1	0	26	19	8	1	0	15	1	76	5	158
4 Cariboo	18	2	1	60	38	34	2	10	32	1	64	12	274
5 Central Coast	0	0	0	4	1	1	0	0	0	1	18	1	26
6 Central Fraser Valley	26	7	0	142	67	40	36	23	115	3	42	23	524
7 Central Kootenay	10	3	0	90	37	32	11	9	78	1	67	14	352
8 Central Okanagan	35	13	0	230	107	66	36	32	151	8	59	66	803
9 Columbia-Shuswap	9	1	0	39	22	6	6	0	29	0	69	9	190
10 Comox-Strathcona	32	10	0	126	66	43	25	15	57	4	56	31	465
11 Cowichan Valley	21	6	0	78	43	36	11	19	56	2	56	13	341
12 Dewdney-Alouette	25	11	1	154	95	55	35	28	77	6	44	20	551
13 East Kootenay	16	4	0	73	18	8	14	2	48	1	105	9	298
14 Fraser-Cheam	12	5	0	86	47	30	21	16	73	1	36	18	345
15 Fraser-Fort George	32	11	0	177	80	88	19	44	39	5	62	38	595
17 Kitimat-Stikine	16	1	0	48	22	30	1	9	8	4	45	12	196
18 Kootenay Boundary	15	4	0	70	31	20	19	8	40	8	44	13	272
19 Mount Waddington	0	0	0	7	4	0	0	1	1	0	43	2	58
20 Nanaimo	26	14	0	144	75	45	28	18	101	3	82	34	570
21 North Okanagan	22	13	0	116	48	33	27	23	57	4	67	18	428
22 Okanagan-Similkameen	25	7	0	120	54	28	19	12	90	2	76	22	455
23 Peace River	10	2	0	44	33	27	2	11	36	2	39	9	215
24 Powell River	4	1	0	23	22	11	5	7	22	0	22	2	119
25 Skeena-Queen Charlotte	5	3	0	37	20	16	3	12	9	1	32	10	148
26 Squamish-Lillooet	2	0	1	9	14	2	1	0	10	1	50	5	95
27 Stikine	0	0	0	1	0	0	0	0	0	0	6	1	8
28 Sunshine Coast	5	0	0	18	16	6	2	0	31	1	26	7	112
29 Thompson-Nicola	46	24	5	212	91	67	38	26	78	10	111	50	758
30 Fort Nelson/Liard	1	0	0	5	0	0	0	0	0	1	14	0	21
<b>Metropolitan - Subtotal</b>	650	271	77	4,412	2,183	1,185	739	692	2,038	162	986	815	14,210
3 Capital	133	53	10	822	378	174	167	92	570	26	192	183	2,800
16 Greater Vancouver	517	218	67	3,590	1,805	1,011	572	600	1,468	136	794	632	11,410
<b>TOTAL</b>	<b>1,076</b>	<b>414</b>	<b>86</b>	<b>6,597</b>	<b>3,270</b>	<b>1,932</b>	<b>1,110</b>	<b>1,019</b>	<b>3,309</b>	<b>233</b>	<b>2,431</b>	<b>1,269</b>	<b>22,746</b>

... continued

<sup>1</sup> Definitions are as in the attached text<sup>2</sup> eg ICU, CCU, ER<sup>3</sup> eg. float, small hospital, community health



Table 8

**Practising Registered Nurses Employed in Nursing<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Primary Area of Responsibility**  
**June 1991**

Regional Hospital District	Direct Patient Care												Subtotal
	Operating Room	Post-Anesth. Recovery Room	Neuro-Sciences	Medical/Surgical	Critical Care <sup>2</sup>	Maternal/Newborn	Psychiatric/Mental Health	Paediatrics	Geriatrics/Gerontology	Occupational Health	Several Areas <sup>3</sup>	Other Patient Care	
<b>Non-Metropolitan - Subtotal</b>	3.10	1.04	0.07	15.88	7.90	5.43	2.70	2.38	9.23	0.52	10.50	3.30	62.02
1 Alberni-Clayoquot	2.31	0.00	0.33	15.17	5.61	4.95	2.97	0.66	5.94	0.00	11.21	3.30	52.44
2 Bulkley-Nechako	1.58	0.26	0.00	6.86	5.01	2.11	0.26	0.00	3.96	0.26	20.05	1.32	41.67
4 Cariboo	3.03	0.34	0.17	10.10	6.40	5.72	0.34	1.68	5.39	0.17	10.77	2.02	46.12
5 Central Coast	0.00	0.00	0.00	12.58	3.14	3.14	0.00	0.00	0.00	3.14	56.60	3.14	81.76
6 Central Fraser Valley	3.06	0.82	0.00	16.70	7.88	4.70	4.23	2.70	13.52	0.35	4.94	2.70	61.61
7 Central Kootenay	1.99	0.60	0.00	17.94	7.37	6.38	2.19	1.79	15.55	0.20	13.35	2.79	70.15
8 Central Okanagan	3.35	1.24	0.00	22.02	10.24	6.32	3.45	3.06	14.46	0.77	5.65	6.32	76.88
9 Columbia-Shuswap	2.25	0.25	0.00	9.76	5.51	1.50	1.50	0.00	7.26	0.00	17.27	2.25	47.55
10 Comox-Strathcona	3.97	1.24	0.00	15.62	8.18	5.33	3.10	1.86	7.07	0.50	6.94	3.84	57.64
11 Cowichan Valley	3.70	1.06	0.00	13.74	7.57	6.34	1.94	3.35	9.86	0.35	9.86	2.29	60.06
12 Dewdney-Alouette	2.75	1.21	0.11	16.91	10.43	6.04	3.84	3.07	8.46	0.66	4.83	2.20	60.51
13 East Kootenay	3.38	0.84	0.00	15.40	3.80	1.69	2.95	0.42	10.13	0.21	22.15	1.90	62.86
14 Fraser-Cheam	1.81	0.75	0.00	12.96	7.08	4.52	3.17	2.41	11.00	0.15	5.43	2.71	52.00
15 Fraser-Fort George	3.68	1.27	0.00	20.36	9.20	10.12	2.19	5.06	4.49	0.58	7.13	4.37	68.44
17 Kitimat-Stikine	3.95	0.25	0.00	11.85	5.43	7.40	0.25	2.22	1.97	0.99	11.11	2.96	48.38
18 Kootenay Boundary	5.00	1.33	0.00	23.34	10.34	6.67	6.33	2.67	13.34	2.67	14.67	4.33	90.68
19 Mount Waddington	0.00	0.00	0.00	4.94	2.82	0.00	0.00	0.71	0.71	0.00	30.35	1.41	40.94
20 Nanaimo	2.77	1.49	0.00	15.34	7.99	4.79	2.98	1.92	10.76	0.32	8.74	3.62	60.73
21 North Okanagan	3.85	2.28	0.00	20.32	8.41	5.78	4.73	4.03	9.98	0.70	11.74	3.15	74.97
22 Okanagan-Similkameen	3.93	1.10	0.00	18.89	8.50	4.41	2.99	1.89	14.16	0.31	11.96	3.46	71.61
23 Peace River	2.04	0.41	0.00	8.99	6.74	5.51	0.41	2.25	7.35	0.41	7.96	1.84	43.91
24 Powell River	2.18	0.54	0.00	12.52	11.97	5.99	2.72	3.81	11.97	0.00	11.97	1.09	64.77
25 Skeena-Queen Charlotte	2.16	1.30	0.00	15.99	8.64	6.91	1.30	5.19	3.89	0.43	13.83	4.32	63.95
26 Squamish-Lillooet	0.88	0.00	0.44	3.98	6.19	0.88	0.44	0.00	4.42	0.44	22.10	2.21	41.99
27 Stikine	0.00	0.00	0.00	6.56	0.00	0.00	0.00	0.00	0.00	0.00	39.37	6.56	52.49
28 Sunshine Coast	2.71	0.00	0.00	9.74	8.66	3.25	1.08	0.00	16.78	0.54	14.08	3.79	60.63
29 Thompson-Nicola	4.61	2.40	0.50	21.23	9.11	6.71	3.80	2.60	7.81	1.00	11.11	5.01	75.89
30 Fort Nelson/Liard	2.22	0.00	0.00	11.11	0.00	0.00	0.00	0.00	0.00	2.22	31.10	0.00	46.65
<b>Metropolitan - Subtotal</b>	3.56	1.48	0.42	24.15	11.95	6.49	4.05	3.79	11.16	0.89	5.40	4.46	77.78
3 Capital	4.47	1.78	0.34	27.63	12.71	5.85	5.61	3.09	19.16	0.87	6.45	6.15	94.12
16 Greater Vancouver	3.38	1.43	0.44	23.47	11.80	6.61	3.74	3.92	9.60	0.89	5.19	4.13	74.60
<b>TOTAL</b>	3.36	1.29	0.27	20.60	10.21	6.03	3.47	3.18	10.33	0.73	7.59	3.96	71.01

... continued

<sup>1</sup> Definitions are as in the attached text.<sup>2</sup> eg. ICU, CCU, ER<sup>3</sup> eg. float, small hospital, community health

Table 9

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District by Position**  
**June 1991**

Regional Hospital District	Director	Associate/ Assistant Director	Supervisor/ Assistant Supervisor	Clinical Specialist/ Clinician	Head Nurse/ Assistant Head Nurse	Staff/ General Duty Nurse	Comm./Occ. Health/ Home Care Nurse	Instructor/ Professor	Consultant/ Counsellor	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>205</b>	<b>32</b>	<b>322</b>	<b>59</b>	<b>515</b>	<b>6,890</b>	<b>737</b>	<b>213</b>	<b>84</b>	<b>490</b>	<b>9,547</b>
1 Alberni-Clayoquot	2	1	6	1	6	119	18	3	1	18	175
2 Bulkley-Nechako	6	1	5	2	14	120	21	1	4	11	185
4 Cariboo	5	0	11	1	17	214	33	7	1	13	302
5 Central Coast	1	0	0	0	3	20	3	0	0	2	29
6 Central Fraser Valley	14	3	18	5	33	429	32	10	7	30	581
7 Central Kootenay	11	0	15	2	30	267	36	12	9	11	393
8 Central Okanagan	19	7	28	10	57	650	48	30	5	58	912
9 Columbia-Shuswap	7	0	11	3	15	140	14	2	4	12	208
10 Comox-Strathcona	7	2	16	2	23	382	37	10	6	30	515
11 Cowichan Valley	9	1	11	2	25	272	33	5	7	17	382
12 Dewdney-Alouette	10	1	25	2	24	475	33	14	1	34	619
13 East Kootenay	8	0	11	2	23	234	29	8	3	8	326
14 Fraser-Chcam	8	4	13	2	24	283	24	2	2	13	375
15 Fraser-Fort George	10	3	13	11	27	514	38	28	7	32	683
17 Kitimat-Stikine	7	0	14	2	14	146	20	2	1	17	223
18 Kootenay Boundary	7	0	11	1	17	206	31	5	1	13	292
19 Mount Waddington	3	0	1	0	1	51	6	0	1	2	65
20 Nanaimo	12	2	18	2	20	460	58	23	7	39	641
21 North Okanagan	11	2	10	2	23	357	33	5	4	29	476
22 Okanagan-Similkameen	12	2	15	0	22	383	29	6	4	23	496
23 Peace River	7	1	22	0	16	167	24	5	1	9	252
24 Powell River	2	0	11	0	9	88	13	2	1	9	135
25 Skeena-Queen Charlotte	5	1	2	1	9	112	20	0	2	10	162
26 Squamish-Lillooet	4	0	6	0	8	67	10	0	0	10	105
27 Stikine	1	0	0	0	0	7	1	0	0	2	11
28 Sunshine Coast	5	0	9	1	3	86	15	1	0	8	128
29 Thompson-Nicola	11	1	20	5	51	620	78	32	5	28	851
30 Fort Nelson/Liard	1	0	0	0	1	21	0	0	0	2	25
<b>Metropolitan - Subtotal</b>	<b>296</b>	<b>63</b>	<b>306</b>	<b>224</b>	<b>882</b>	<b>11,705</b>	<b>1,063</b>	<b>524</b>	<b>237</b>	<b>917</b>	<b>16,217</b>
3 Capital	59	11	72	35	223	2,228	224	86	44	190	3,172
16 Greater Vancouver	237	52	234	189	659	9,477	839	438	193	727	13,045
<b>TOTAL</b>	<b>501</b>	<b>95</b>	<b>628</b>	<b>283</b>	<b>1,397</b>	<b>18,595</b>	<b>1,800</b>	<b>737</b>	<b>321</b>	<b>1,407</b>	<b>25,764</b>

<sup>1</sup> Definitions are as in the attached text<sup>2</sup> Includes 329 Registered Nurses who did not provide this information.

Table 11

**Analysis of Change in the Number of Registered Nurses<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**June 1989 to June 1991**

Regional Hospital District	June 1989	New Registrants <sup>2</sup> by Place of Graduation				Reactivation <sup>3</sup>	Attrition <sup>4</sup>	Net Intra-provincial Migration	June 1991
		B.C.	Other Canada	Other Country	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>9,870</b>	<b>529</b>	<b>509</b>	<b>119</b>	<b>1,157</b>	<b>453</b>	<b>911</b>	<b>379</b>	<b>10,948</b>
1 Alberni-Clayoquot	189	12	6	0	18	9	15	1	202
2 Bulkley-Nechako	200	11	11	3	25	9	18	2	218
4 Cariboo	309	14	9	4	27	9	18	12	339
5 Central Coast	23	1	2	0	3	0	4	9	31
6 Central Fraser Valley	562	25	51	11	87	25	57	27	644
7 Central Kootenay	417	31	11	4	46	16	32	16	463
8 Central Okanagan	902	57	72	12	141	45	82	58	1,064
9 Columbia-Shuswap	236	8	8	1	17	12	27	11	249
10 Comox-Strathcona	550	19	39	4	62	34	66	38	618
11 Cowichan Valley	421	17	12	5	34	24	54	38	463
12 Dewdney-Alouette	578	26	20	5	51	26	35	57	677
13 East Kootenay	354	10	25	4	39	15	36	-6	366
14 Fraser-Cheam	393	13	23	8	44	20	49	27	435
15 Fraser-Fort George	675	70	25	4	99	26	58	-10	732
17 Kitimat-Stikine	233	16	14	7	37	9	30	5	254
18 Kootenay Boundary	319	20	3	2	25	4	15	-4	329
19 Mount Waddington	85	1	5	2	8	1	7	-2	85
20 Nanaimo	651	38	38	8	84	43	63	55	770
21 North Okanagan	484	27	22	5	54	20	42	27	543
22 Okanagan-Similkameen	511	19	26	7	52	19	35	20	567
23 Peace River	264	11	38	3	52	13	38	-7	284
24 Powell River	145	6	3	1	10	5	12	6	154
25 Skeena-Queen Charlotte	171	11	8	4	23	17	18	-17	176
26 Squamish-Lillooet	126	3	5	5	13	6	8	3	140
27 Stikine	11	1	2	0	3	2	2	0	14
28 Sunshine Coast	133	2	8	3	13	10	10	13	159
29 Thompson-Nicola	901	60	20	5	85	33	76	0	943
30 Fort Nelson/Liard	27	0	3	2	5	1	4	0	29
<b>Metropolitan - Subtotal</b>	<b>17,581</b>	<b>896</b>	<b>776</b>	<b>379</b>	<b>2,051</b>	<b>792</b>	<b>1,727</b>	<b>-379</b>	<b>18,318</b>
3 Capital	3,453	163	176	32	371	166	382	61	3,669
16 Greater Vancouver	14,128	733	600	347	1,680	626	1,345	-440	14,649
<b>TOTAL</b>	<b>27,451</b>	<b>1,425</b>	<b>1,285</b>	<b>498</b>	<b>3,208</b>	<b>1,245</b>	<b>2,638</b>	<b>0</b>	<b>29,266</b>

<sup>1</sup> Definitions are as in the attached text.

<sup>2</sup> Registered Nurses who reported B.C. addresses and were registered in June 1991 and whose date of initial registration was after June 1989.

<sup>3</sup> Registered Nurses who reported B.C. addresses and were registered in June 1991 but not in June 1989 and who were registered for the first time before June 1989.

<sup>4</sup> Registered Nurses who reported B.C. addresses and were registered in June 1989 but not in June 1991.



## REGISTERED PSYCHIATRIC NURSES



## REGISTERED PSYCHIATRIC NURSES

**Definition:** Registered Psychiatric Nurses

practise in primary, secondary and tertiary care settings and provide service to individuals whose primary care needs relate to mental and developmental health.

The basis of psychiatric nursing is a caring, therapeutic relationship; the core knowledge and skills of psychiatric nursing are developed from the nursing, psycho-social, biological and physical sciences.

Psychiatric nursing practice includes clinical, administrative, educational, consultative and research functions.<sup>1</sup>

**Governing Statute:** Nurses (Registered Psychiatric) Act, Revised Statutes of British Columbia, 1979, Chapter 301; Nursing Statutes Amendment Act, 1988, Chapter 51, Sections 39-40; Health Statutes Amendment Act, 1990, Chapter 51, Sections 33 - 40; administered by the Ministry of Health.

**Governing Body:** Registered Psychiatric Nurses Association of British Columbia (RPNABC). Registered members of the RPNABC have exclusive use of the titles *Registered Psychiatric Nurse (RPN)*, and *Licensed Graduate Psychiatric Nurse (LGPN)*.

**Date of Record:** October 1989 and October 1991.

**Source of Data:** Registered Psychiatric Nurses Association of British Columbia.

**Preparation and Updating:**

The tables, derived from the register of the RPNABC, include Registered Psychiatric Nurses who reported a British Columbia address at the date of record. In 1991, 298 practising and 116 non-practising Registered Psychiatric Nurses in British Columbia reported dual registration with the RPNABC and the Registered Nurses Association of British Columbia (RNABC).

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<sup>1</sup>Adapted from information provided by the Registered Psychiatric Nurses Association of British Columbia.

See also *Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, No. 3131-138, p.54, Ottawa: Employment and Immigration Canada.

**Definition of Terms:****1. Registration Status**

A Registered Psychiatric Nurse or a Licensed Graduate Psychiatric Nurse may hold either an *practising* or *non-practising* membership in the RPNABC. A practising Registered Psychiatric Nurse or Licensed Graduate Psychiatric Nurse must be employed in nursing. A non-practising Registered Psychiatric Nurse or Licensed Graduate Psychiatric Nurse may not actively engage in the practise of psychiatric nursing.

**2. Age and Sex**

Age and sex information on practising and non-practising Registered Psychiatric Nurses, derived from the RPNABC registration database, is shown in Table 4. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

**3. Place of Employment**

Type of facility was reported by registrants on the registration renewal form. Tables 5 and 6 show this information for practising Registered Psychiatric Nurses employed in nursing. The categories used are:

- (a) Psychiatric Hospital;
- (b) Mental Retardation;
- (c) Long Term Care;
- (d) Correctional;
- (e) Forensic;
- (f) Adolescent Psychiatry;
- (g) Child Psychiatry;
- (h) General Hospital;
- (i) Alcohol/Drug;
- (j) Community Mental Health;
- (k) Boarding Home;
- (l) Educational Institution;
- (m) Other and Unknown.

**4. Primary Area of Responsibility**

Primary area of responsibility was reported by registrants on the registration renewal form. Tables 7 and 8 show this information for practising Registered Psychiatric Nurses employed in nursing. The categories used are:

- (a) Acute Adult Psychiatry;
- (b) Chronic Adult Psychiatry;
- (c) Child Psychiatry;
- (d) Mental Retardation;
- (e) Psychogeriatric;



- (f) Geriatric;
- (g) Corrections;
- (h) Forensic;
- (i) Adult/Drug;
- (j) Rehab/Vocational;
- (k) Education;
- (l) Counselling;
- (m) Administration;
- (n) General Nursing;
- (o) Other and Unknown.

## 5. Employment Position

Employment position was reported by registrants on the registration renewal form. Tables 9 and 10 show this information for practising Registered Psychiatric Nurses employed in nursing. The categories used are:

- (a) General/Staff Nurse;
- (b) Head Nurse/Assistant Head Nurse/Team Leader;
- (c) Supervisor/Coordinator;
- (d) Director/Associate/Assistant Director;
- (e) Instructor;
- (f) Community Worker/Nurse;
- (g) Other and Unknown.

## 6. Analysis of Change

Table 11 illustrates key sources of change which may have affected the stock of practising Registered Psychiatric Nurses from 1989 to 1991.

*New registrants* include all nurses who were practising members as of June 1991 and who registered with the RNPABC for the first time subsequent to June 1989. New registrants are recorded according to their place of graduation, i.e., from B.C., Other Canadian Provinces (O.Can.) or Other.

*Re-activations* (Re-Act) represent those nurses who did not renew practising membership in June 1989 but were practising members in B.C. in June 1991, and whose date of initial registration was before June 1989.

*Attrition* (Attr'n) describes those Registered Psychiatric Nurses who were included in the 1989 Registered Psychiatric Nurse stock, but who, because of death, retirement, out-of-province relocation or non-renewal of registration, were not included in the 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of Registered Psychiatric Nurses among different Regional Hospital Districts. The net migration total is therefore zero.

**Practising Registered Psychiatric Nurses  
Employed in Nursing  
per 10,000 Population  
by Regional Hospital District  
October 1991  
N=2218**

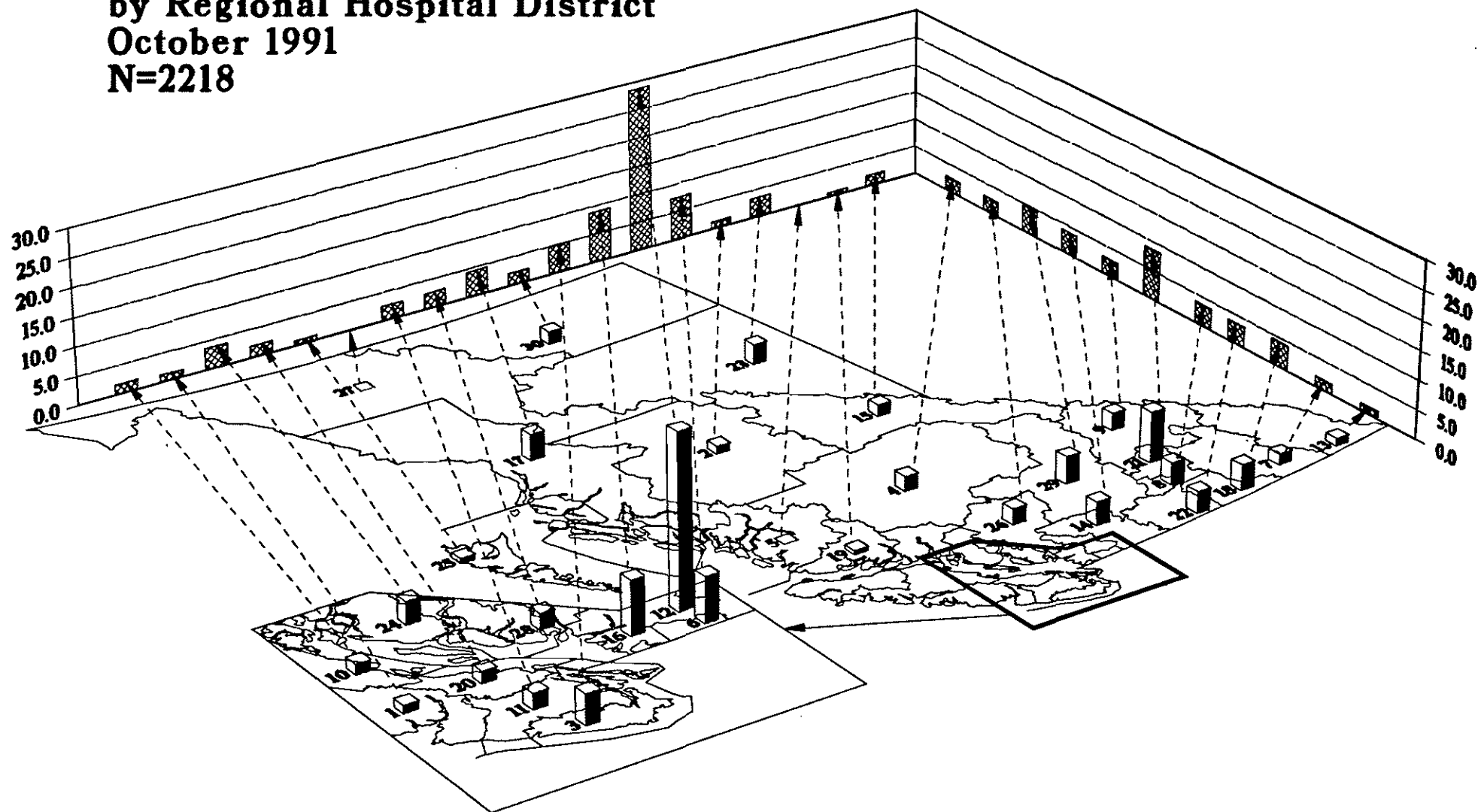


Table 1

**Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Registration and Employment Status**  
**October 1989 and October 1991**

Regional Hospital District	Practising						Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Subtotal		1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991
	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991				
<b>Non-Metropolitan - Subtotal</b>	<b>568</b>	<b>694</b>	<b>56</b>	<b>1</b>	<b>624</b>	<b>695</b>	<b>168</b>	<b>155</b>	<b>792</b>	<b>850</b>
1 Alberni-Clayoquot	5	4	1	0	6	4	2	3	8	7
2 Bulkley-Nechako	3	5	1	0	4	5	3	3	7	8
4 Cariboo	16	15	0	0	16	15	5	4	21	19
5 Central Coast	1	0	0	0	1	0	0	0	1	0
6 Central Fraser Valley	45	64	9	0	54	64	14	14	68	78
7 Central Kootenay	2	9	0	0	2	9	2	4	4	13
8 Central Okanagan	40	39	1	0	41	39	11	12	52	51
9 Columbia-Shuswap	9	12	0	0	9	12	11	7	20	19
10 Comox-Strathcona	10	14	0	0	10	14	5	5	15	19
11 Cowichan Valley	12	15	0	0	12	15	7	8	19	23
12 Dewdney-Alouette	228	261	16	0	244	261	40	33	284	294
13 East Kootenay	6	6	2	0	8	6	4	1	12	7
14 Fraser-Cheam	17	26	3	0	20	26	8	5	28	31
15 Fraser-Fort George	15	17	1	0	16	17	7	5	23	22
17 Kitimat-Stikine	20	18	2	1	22	19	3	2	25	21
18 Kootenay Boundary	8	13	0	0	8	13	0	0	8	13
19 Mount Waddington	1	1	0	0	1	1	1	0	2	1
20 Nanaimo	11	19	3	0	14	19	3	9	17	28
21 North Okanagan	38	49	7	0	45	49	9	6	54	55
22 Okanagan-Similkameen	20	23	2	0	22	23	5	3	27	26
23 Peace River	12	17	5	0	17	17	3	4	20	21
24 Powell River	3	7	0	0	3	7	0	1	3	8
25 Skeena-Queen Charlotte	1	2	0	0	1	2	0	0	1	2
26 Squamish-Lillooet	4	6	0	0	4	6	0	0	4	6
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	5	0	0	1	5	3	5	4	10
29 Thompson-Nicola	39	46	3	0	42	46	21	20	63	66
30 Fort Nelson/Liard	1	1	0	0	1	1	1	1	2	2
<b>Metropolitan - Subtotal</b>	<b>1,316</b>	<b>1,524</b>	<b>135</b>	<b>4</b>	<b>1,451</b>	<b>1,528</b>	<b>274</b>	<b>229</b>	<b>1,725</b>	<b>1,757</b>
3 Capital	139	150	11	0	150	150	20	23	170	173
16 Greater Vancouver	1,177	1,374	124	4	1,301	1,378	254	206	1,555	1,584
<b>TOTAL</b>	<b>1,884</b>	<b>2,218</b>	<b>191</b>	<b>5</b>	<b>2,075</b>	<b>2,223</b>	<b>442</b>	<b>384</b>	<b>2,517</b>	<b>2,607</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>The figures differ from the corresponding figures in ROLLCALL 89 because of refinements in data analysis.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 2

Registered Psychiatric Nurses<sup>1</sup> in British Columbia  
per 10,000 Population by Regional Hospital District by Registration and Employment Status  
October 1989<sup>2</sup> and October 1991

Regional Hospital District	Practising				Subtotal		Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991
	1989 <sup>2</sup>	1991	1989 <sup>2</sup>	1991						
<b>Non-Metropolitan - Subtotal</b>	<b>4.28</b>	<b>5.04</b>	<b>0.42</b>	<b>0.01</b>	<b>4.71</b>	<b>5.05</b>	<b>1.27</b>	<b>1.13</b>	<b>5.97</b>	<b>6.18</b>
1 Alberni-Clayoquot	1.67	1.32	0.33	0.00	2.00	1.32	0.67	0.99	2.67	2.31
2 Bulkley-Nechako	0.81	1.32	0.27	0.00	1.08	1.32	0.81	0.79	1.89	2.11
4 Cariboo	2.74	2.52	0.00	0.00	2.74	2.52	0.86	0.67	3.60	3.20
5 Central Coast	3.13	0.00	0.00	0.00	3.13	0.00	0.00	0.00	3.13	0.00
6 Central Fraser Valley	5.88	7.52	1.18	0.00	7.06	7.52	1.83	1.65	8.88	9.17
7 Central Kootenay	0.41	1.79	0.00	0.00	0.41	1.79	0.41	0.80	0.82	2.59
8 Central Okanagan	4.09	3.73	0.10	0.00	4.19	3.73	1.13	1.15	5.32	4.88
9 Columbia-Shuswap	2.27	3.00	0.00	0.00	2.27	3.00	2.77	1.75	5.04	4.76
10 Comox-Strathcona	1.31	1.74	0.00	0.00	1.31	1.74	0.65	0.62	1.96	2.36
11 Cowichan Valley	2.17	2.64	0.00	0.00	2.17	2.64	1.27	1.41	3.44	4.05
12 Dewdney-Alouette	27.69	28.66	1.94	0.00	29.64	28.66	4.86	3.62	34.50	32.28
13 East Kootenay	1.23	1.27	0.41	0.00	1.64	1.27	0.82	0.21	2.47	1.48
14 Fraser-Cheam	2.70	3.92	0.48	0.00	3.18	3.92	1.27	0.75	4.45	4.67
15 Fraser-Fort George	1.74	1.96	0.12	0.00	1.86	1.96	0.81	0.58	2.67	2.53
17 Kitimat-Stikine	5.10	4.44	0.51	0.25	5.61	4.69	0.77	0.49	6.38	5.18
18 Kootenay Boundary	2.68	4.33	0.00	0.00	2.68	4.33	0.00	0.00	2.68	4.33
19 Mount Waddington	0.70	0.71	0.00	0.00	0.70	0.71	0.70	0.00	1.41	0.71
20 Nanaimo	1.25	2.02	0.34	0.00	1.59	2.02	0.34	0.96	1.93	2.98
21 North Okanagan	6.76	8.58	1.25	0.00	8.01	8.58	1.60	1.05	9.61	9.63
22 Okanagan-Similkameen	3.23	3.62	0.32	0.00	3.55	3.62	0.81	0.47	4.36	4.09
23 Peace River	2.43	3.47	1.01	0.00	3.45	3.47	0.61	0.82	4.05	4.29
24 Powell River	1.65	3.81	0.00	0.00	1.65	3.81	0.00	0.54	1.65	4.35
25 Skeena-Queen Charlotte	0.44	0.86	0.00	0.00	0.44	0.86	0.00	0.00	0.44	0.86
26 Squamish-Lillooet	1.87	2.65	0.00	0.00	1.87	2.65	0.00	0.00	1.87	2.65
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.56	2.71	0.00	0.00	0.56	2.71	1.68	2.71	2.24	5.41
29 Thompson-Nicola	3.98	4.61	0.31	0.00	4.29	4.61	2.14	2.00	6.43	6.61
30 Fort Nelson/Liard	2.13	2.22	0.00	0.00	2.13	2.22	2.13	2.22	4.27	4.44
<b>Metropolitan - Subtotal</b>	<b>7.62</b>	<b>8.34</b>	<b>0.78</b>	<b>0.02</b>	<b>8.40</b>	<b>8.36</b>	<b>1.59</b>	<b>1.25</b>	<b>9.99</b>	<b>9.62</b>
3 Capital	4.91	5.04	0.39	0.00	5.30	5.04	0.71	0.77	6.01	5.82
16 Greater Vancouver	8.15	8.98	0.86	0.03	9.01	9.01	1.76	1.35	10.77	10.36
<b>TOTAL</b>	<b>6.17</b>	<b>6.92</b>	<b>0.63</b>	<b>0.02</b>	<b>6.80</b>	<b>6.94</b>	<b>1.45</b>	<b>1.20</b>	<b>8.24</b>	<b>8.14</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>The figures differ from the corresponding figures appearing in ROLLCALL 89. See Foreword and Footnote 2, Table 1.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 3

Average Annual Rate of Change: Registered Psychiatric Nurses<sup>1</sup>  
in British Columbia by Regional Hospital District by Registration and Employment Status  
October 1989 to October 1991

Regional Hospital District	Practising						Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Subtotal		Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>				
<b>Non-Metropolitan - Subtotal</b>	<b>10.54</b>	<b>8.51</b>	<b>-86.64</b>	<b>-86.88</b>	<b>5.54</b>	<b>3.60</b>	<b>-3.95</b>	<b>-5.71</b>	<b>3.60</b>	<b>1.70</b>
1 Alberni-Clayoquot	*	*	*	*	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	*	*	*	*	*	*
4 Cariboo	-3.18	-4.09	*	*	-3.18	-4.09	*	*	-4.88	-5.78
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	19.26	13.13	*	*	8.87	3.27	0.00	-5.14	7.10	1.60
7 Central Kootenay	*	*	*	*	*	*	*	*	*	*
8 Central Okanagan	-1.26	-4.46	*	*	-2.47	-5.63	4.45	1.06	-0.97	-4.18
9 Columbia-Shuswap	*	*	*	*	*	*	-20.23	-20.53	-2.53	-2.91
10 Comox-Strathcona	18.32	15.16	*	*	18.32	15.16	*	*	12.55	9.54
11 Cowichan Valley	11.80	10.23	*	*	11.80	10.23	*	*	10.02	8.47
12 Dewdney-Alouette	6.99	1.73	-100.00	-100.00	3.42	-1.66	-9.17	-13.64	1.75	-3.26
13 East Kootenay	*	*	*	*	*	*	*	*	-23.62	-22.63
14 Fraser-Cheam	23.67	20.45	*	*	14.02	11.05	*	*	5.22	2.48
15 Fraser-Fort George	6.46	6.04	*	*	3.08	2.67	*	*	-2.20	-2.59
17 Kitimat-Stikine	-5.13	-6.69	*	*	-7.07	-8.59	*	*	-8.35	-9.85
18 Kootenay Boundary	*	*	*	*	*	*	*	*	*	*
19 Mount Waddington	*	*	*	*	*	*	*	*	*	*
20 Nanaimo	31.43	27.48	*	*	16.50	13.00	*	*	28.34	24.48
21 North Okanagan	13.55	12.66	*	*	4.35	3.53	*	*	0.92	0.13
22 Okanagan-Similkameen	7.24	5.86	*	*	2.25	0.94	*	*	-1.87	-3.13
23 Peace River	19.02	19.48	*	*	0.00	0.38	*	*	2.47	2.86
24 Powell River	*	*	*	*	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	*	*	*	*
29 Thompson-Nicola	8.60	7.53	*	*	4.65	3.61	-2.41	-3.38	2.35	1.34
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>7.61</b>	<b>4.63</b>	<b>-82.79</b>	<b>-83.26</b>	<b>2.62</b>	<b>-0.22</b>	<b>-8.58</b>	<b>-11.11</b>	<b>0.92</b>	<b>-1.87</b>
3 Capital	3.88	1.33	-100.00	-100.00	0.00	-2.46	7.24	4.60	0.88	-1.60
16 Greater Vancouver	8.05	4.99	-82.04	-82.55	2.92	0.00	-9.94	-12.49	0.93	-1.93
<b>TOTAL</b>	<b>8.50</b>	<b>5.93</b>	<b>-83.82</b>	<b>-84.20</b>	<b>3.50</b>	<b>1.05</b>	<b>-6.79</b>	<b>-9.00</b>	<b>1.77</b>	<b>-0.64</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Rate of change (in percent) in the number.

<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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The University of British Columbia

Table 4

Registered Psychiatric Nurses<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

October 1991

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Unknown		Subtotal		Total <sup>2</sup>
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>8</b>	<b>15</b>	<b>122</b>	<b>59</b>	<b>253</b>	<b>105</b>	<b>166</b>	<b>36</b>	<b>64</b>	<b>1</b>	<b>5</b>	<b>3</b>	<b>11</b>	<b>220</b>	<b>629</b>	<b>850</b>
1 Alberni-Clayoquot	0	0	0	2	1	2	0	2	0	0	0	0	0	0	1	6	7
2 Bulkley-Nechako	0	0	0	1	0	5	0	1	0	0	0	0	0	0	0	8	8
4 Cariboo	0	1	0	3	1	4	2	4	1	3	0	0	0	0	4	15	19
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	1	1	6	3	19	11	19	4	9	0	1	0	3	19	58	78
7 Central Kootenay	0	0	0	4	1	4	0	4	0	0	0	0	0	0	1	12	13
8 Central Okanagan	0	1	1	7	6	13	2	15	1	4	0	0	0	1	10	41	51
9 Columbia-Shuswap	0	0	0	3	0	8	1	4	1	1	0	0	0	1	2	17	19
10 Comox-Strathcona	0	0	0	5	1	8	0	2	2	1	0	0	0	0	3	16	19
11 Cowichan Valley	0	1	0	4	2	12	1	1	0	1	0	0	0	1	3	20	23
12 Dewdney-Alouette	0	2	6	33	23	87	58	49	15	16	0	3	2	0	104	190	294
13 East Kootenay	0	0	0	1	1	1	0	4	0	0	0	0	0	0	1	6	7
14 Fraser-Cheam	0	0	3	6	4	7	1	4	3	2	0	0	0	1	11	20	31
15 Fraser-Fort George	0	0	0	4	0	11	0	6	0	0	0	0	0	1	0	22	22
17 Kitimat-Stikine	0	0	0	4	2	8	1	3	2	1	0	0	0	0	5	16	21
18 Kootenay Boundary	0	0	0	1	0	2	3	5	0	1	0	1	0	0	3	10	13
19 Mount Waddington	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
20 Nanaimo	0	0	0	7	3	8	2	5	0	2	0	0	0	1	5	23	28
21 North Okanagan	0	0	0	4	3	15	7	13	1	10	1	0	0	1	12	43	55
22 Okanagan-Similkameen	0	0	0	3	2	9	3	7	0	2	0	0	0	0	5	21	26
23 Peace River	1	0	2	8	2	2	4	1	0	1	0	0	0	0	9	12	21
24 Powell River	0	1	1	2	1	3	0	0	0	0	0	0	0	0	2	6	8
25 Skeena-Queen Charlotte	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	2
26 Squamish-Lillooet	0	0	0	1	0	2	1	1	1	0	0	0	0	0	2	4	6
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	1	1	6	0	0	0	1	0	0	0	0	2	8	10
29 Thompson-Nicola	0	1	0	10	2	15	8	16	5	7	0	0	1	1	16	50	66
30 Fort Nelson/Liard	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2	2
<b>Metropolitan - Subtotal</b>	<b>7</b>	<b>55</b>	<b>57</b>	<b>350</b>	<b>121</b>	<b>453</b>	<b>170</b>	<b>337</b>	<b>45</b>	<b>104</b>	<b>0</b>	<b>9</b>	<b>15</b>	<b>33</b>	<b>415</b>	<b>1,341</b>	<b>1,757</b>
3 Capital	0	2	2	24	15	53	18	34	6	14	0	0	2	3	43	130	173
16 Greater Vancouver	7	53	55	326	106	400	152	303	39	90	0	9	13	30	372	1,211	1,584
<b>TOTAL</b>	<b>8</b>	<b>63</b>	<b>72</b>	<b>472</b>	<b>180</b>	<b>706</b>	<b>275</b>	<b>503</b>	<b>81</b>	<b>168</b>	<b>1</b>	<b>14</b>	<b>18</b>	<b>44</b>	<b>635</b>	<b>1,970</b>	<b>2,607</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 2 RPNs who did not provide information on gender.

Prepared by:

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The University of British Columbia

Table 5

**Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District by Place of Employment**  
**October 1991**

<b>Regional Hospital District</b>	<b>Psychiatric Hospital</b>	<b>Mental Retardation</b>	<b>Long Term Care</b>	<b>Correctional</b>	<b>Forensic</b>	<b>Adolescent Psychiatry</b>	<b>Child Psychiatry</b>
<b>Non-Metropolitan - Subtotal</b>	<b>164</b>	<b>47</b>	<b>97</b>	<b>27</b>	<b>33</b>	<b>8</b>	<b>1</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	1	0	0	0	0	0
4 Cariboo	0	1	6	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	14	5	6	14	4	0	0
7 Central Kootenay	0	0	3	0	1	0	1
8 Central Okanagan	3	0	11	0	0	0	0
9 Columbia-Shuswap	0	0	2	0	0	0	0
10 Comox-Strathcona	0	0	2	0	0	1	0
11 Cowichan Valley	0	3	1	0	0	0	0
12 Dewdney-Alouette	139	12	10	8	27	5	0
13 East Kootenay	0	0	0	0	0	0	0
14 Fraser-Cheam	3	1	4	4	0	0	0
15 Fraser-Fort George	0	0	0	1	0	1	0
17 Kitimat-Stikine	0	0	6	0	0	0	0
18 Kootenay Boundary	0	0	3	0	1	0	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	0	1	4	0	0	0	0
21 North Okanagan	1	10	12	0	0	0	0
22 Okanagan-Similkameen	0	3	8	0	0	0	0
23 Peace River	1	0	4	0	0	0	0
24 Powell River	0	0	1	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	2	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	1	0	0	0	0
29 Thompson-Nicola	2	10	11	0	0	1	0
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>436</b>	<b>216</b>	<b>140</b>	<b>17</b>	<b>74</b>	<b>34</b>	<b>2</b>
3 Capital	12	55	27	0	2	2	0
16 Greater Vancouver	424	161	113	17	72	32	2
<b>TOTAL</b>	<b>600</b>	<b>263</b>	<b>237</b>	<b>44</b>	<b>107</b>	<b>42</b>	<b>3</b>

<sup>1</sup>Definitions are as in the attached text.

Table 5  
(Continued)

Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia  
by Regional Hospital District by Place of Employment  
October 1991

Regional Hospital District	General Hospital <sup>2</sup>	Alcohol/ Drug	Community Mental Health	Boarding Home	Educational Institution	Other <sup>3</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>131</b>	<b>10</b>	<b>45</b>	<b>36</b>	<b>3</b>	<b>92</b>	<b>694</b>
1 Alberni-Clayoquot	2	0	0	0	0	2	4
2 Bulkley-Nechako	3	0	0	0	0	1	5
4 Cariboo	2	0	3	2	0	1	15
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	3	1	3	7	0	7	64
7 Central Kootenay	1	0	1	0	0	2	9
8 Central Okanagan	13	0	3	3	0	6	39
9 Columbia-Shuswap	4	0	0	2	0	4	12
10 Comox-Strathcona	7	0	0	0	0	4	14
11 Cowichan Valley	7	0	2	0	0	2	15
12 Dewdney-Alouette	8	4	8	8	2	30	261
13 East Kootenay	5	0	1	0	0	0	6
14 Fraser-Cheam	8	0	0	4	0	2	26
15 Fraser-Fort George	7	0	5	0	0	3	17
17 Kitimat-Stikine	8	0	3	0	0	1	18
18 Kootenay Boundary	5	0	0	1	0	3	13
19 Mount Waddington	0	0	1	0	0	0	1
20 Nanaimo	7	2	2	0	1	2	19
21 North Okanagan	10	1	3	4	0	8	49
22 Okanagan-Similkameen	7	0	3	0	0	2	23
23 Peace River	7	0	4	0	0	1	17
24 Powell River	5	0	0	0	0	1	7
25 Skeena-Queen Charlotte	1	0	0	0	0	1	2
26 Squamish-Lillooet	1	0	1	1	0	1	6
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	2	5
29 Thompson-Nicola	8	2	2	4	0	6	46
30 Fort Nelson/Liard	1	0	0	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>217</b>	<b>33</b>	<b>101</b>	<b>42</b>	<b>20</b>	<b>192</b>	<b>1,524</b>
3 Capital	26	2	5	2	0	17	150
16 Greater Vancouver	191	31	96	40	20	175	1,374
<b>TOTAL</b>	<b>348</b>	<b>43</b>	<b>146</b>	<b>78</b>	<b>23</b>	<b>284</b>	<b>2,218</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 232 practising RPNs employed in psychiatric units of general hospitals.

<sup>3</sup>Includes 181 practising RPNs who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia



Table 6

**Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Place of Employment**  
**October 1991**

<b>Regional Hospital District</b>	<b>Psychiatric Hospital</b>	<b>Mental Retardation</b>	<b>Long Term Care</b>	<b>Correctional</b>	<b>Forensic</b>	<b>Adolescent Psychiatry</b>	<b>Child Psychiatry</b>
<b>Non-Metropolitan - Subtotal</b>	<b>1.19</b>	<b>0.34</b>	<b>0.70</b>	<b>0.20</b>	<b>0.24</b>	<b>0.06</b>	<b>0.01</b>
1 Alberni-Clayoquot	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Bulkley-Nechako	0.00	0.26	0.00	0.00	0.00	0.00	0.00
4 Cariboo	0.00	0.17	1.01	0.00	0.00	0.00	0.00
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	1.65	0.59	0.71	1.65	0.47	0.00	0.00
7 Central Kootenay	0.00	0.00	0.60	0.00	0.20	0.00	0.20
8 Central Okanagan	0.29	0.00	1.05	0.00	0.00	0.00	0.00
9 Columbia-Shuswap	0.00	0.00	0.50	0.00	0.00	0.00	0.00
10 Comox-Strathcona	0.00	0.00	0.25	0.00	0.00	0.12	0.00
11 Cowichan Valley	0.00	0.53	0.18	0.00	0.00	0.00	0.00
12 Dewdney-Alouette	15.26	1.32	1.10	0.88	2.96	0.55	0.00
13 East Kootenay	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14 Fraser-Cheam	0.45	0.15	0.60	0.60	0.00	0.00	0.00
15 Fraser-Fort George	0.00	0.00	0.00	0.12	0.00	0.12	0.00
17 Kitimat-Stikine	0.00	0.00	1.48	0.00	0.00	0.00	0.00
18 Kootenay Boundary	0.00	0.00	1.00	0.00	0.33	0.00	0.00
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Nanaimo	0.00	0.11	0.43	0.00	0.00	0.00	0.00
21 North Okanagan	0.18	1.75	2.10	0.00	0.00	0.00	0.00
22 Okanagan-Similkameen	0.00	0.47	1.26	0.00	0.00	0.00	0.00
23 Peace River	0.20	0.00	0.82	0.00	0.00	0.00	0.00
24 Powell River	0.00	0.00	0.54	0.00	0.00	0.00	0.00
25 Skeena-Queen Charlotte	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Squamish-Lillooet	0.00	0.00	0.88	0.00	0.00	0.00	0.00
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.54	0.00	0.54	0.00	0.00	0.00	0.00
29 Thompson-Nicola	0.20	1.00	1.10	0.00	0.00	0.10	0.00
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>2.39</b>	<b>1.18</b>	<b>0.77</b>	<b>0.09</b>	<b>0.41</b>	<b>0.19</b>	<b>0.01</b>
3 Capital	0.40	1.85	0.91	0.00	0.07	0.07	0.00
16 Greater Vancouver	2.77	1.05	0.74	0.11	0.47	0.21	0.01
<b>TOTAL</b>	<b>1.87</b>	<b>0.82</b>	<b>0.74</b>	<b>0.14</b>	<b>0.33</b>	<b>0.13</b>	<b>0.01</b>

<sup>1</sup>Definitions are as in the attached text.

Table 6  
(Continued)

Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia  
per 10,000 Population by Regional Hospital District by Place of Employment  
October 1991

Regional Hospital District	General Hospital <sup>2</sup>	Alcohol/Drug	Community Mental Health	Boarding Home	Educational Institution	Other <sup>3</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>0.95</b>	<b>0.07</b>	<b>0.33</b>	<b>0.26</b>	<b>0.02</b>	<b>0.67</b>	<b>5.04</b>
1 Alberni-Clayoquot	0.66	0.00	0.00	0.00	0.00	0.66	1.32
2 Bulkley-Nechako	0.79	0.00	0.00	0.00	0.00	0.26	1.32
4 Cariboo	0.34	0.00	0.50	0.34	0.00	0.17	2.52
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.35	0.12	0.35	0.82	0.00	0.82	7.52
7 Central Kootenay	0.20	0.00	0.20	0.00	0.00	0.40	1.79
8 Central Okanagan	1.24	0.00	0.29	0.29	0.00	0.57	3.73
9 Columbia-Shuswap	1.00	0.00	0.00	0.50	0.00	1.00	3.00
10 Comox-Strathcona	0.87	0.00	0.00	0.00	0.00	0.50	1.74
11 Cowichan Valley	1.23	0.00	0.35	0.00	0.00	0.35	2.64
12 Dewdney-Alouette	0.88	0.44	0.88	0.88	0.22	3.29	28.66
13 East Kootenay	1.05	0.00	0.21	0.00	0.00	0.00	1.27
14 Fraser-Chem	1.21	0.00	0.00	0.60	0.00	0.30	3.92
15 Fraser-Fort George	0.81	0.00	0.58	0.00	0.00	0.35	1.96
17 Kitimat-Stikine	1.97	0.00	0.74	0.00	0.00	0.25	4.44
18 Kootenay Boundary	1.67	0.00	0.00	0.33	0.00	1.00	4.33
19 Mount Waddington	0.00	0.00	0.71	0.00	0.00	0.00	0.71
20 Nanaimo	0.75	0.21	0.21	0.00	0.11	0.21	2.02
21 North Okanagan	1.75	0.18	0.53	0.70	0.00	1.40	8.58
22 Okanagan-Similkameen	1.10	0.00	0.47	0.00	0.00	0.31	3.62
23 Peace River	1.43	0.00	0.82	0.00	0.00	0.20	3.47
24 Powell River	2.72	0.00	0.00	0.00	0.00	0.54	3.81
25 Skeena-Queen Charlotte	0.43	0.00	0.00	0.00	0.00	0.43	0.86
26 Squamish-Lillooet	0.44	0.00	0.44	0.44	0.00	0.44	2.65
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.54	0.00	0.00	0.00	0.00	1.08	2.71
29 Thompson-Nicola	0.80	0.20	0.20	0.40	0.00	0.60	4.61
30 Fort Nelson/Liard	2.22	0.00	0.00	0.00	0.00	0.00	2.22
<b>Metropolitan - Subtotal</b>	<b>1.19</b>	<b>0.18</b>	<b>0.55</b>	<b>0.23</b>	<b>0.11</b>	<b>1.05</b>	<b>8.34</b>
3 Capital	0.87	0.07	0.17	0.07	0.00	0.57	5.04
16 Greater Vancouver	1.25	0.20	0.63	0.26	0.13	1.14	8.98
<b>TOTAL</b>	<b>1.09</b>	<b>0.13</b>	<b>0.46</b>	<b>0.24</b>	<b>0.07</b>	<b>0.89</b>	<b>6.92</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 232 practising RPNs employed in psychiatric units of general hospitals.

<sup>3</sup>Includes 181 practising RPNs who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 7

**Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District by Primary Area of Responsibility**  
**October 1991**

Regional Hospital District	Acute Adult Psychiatry	Chronic Adult Psychiatry	Child Psychiatry	Mental Retardation	Psycho- geriatric	Geriatric	Corrections	Forensic
<b>Non-Metropolitan - Subtotal</b>	<b>151</b>	<b>97</b>	<b>7</b>	<b>47</b>	<b>69</b>	<b>77</b>	<b>30</b>	<b>32</b>
1 Alberni-Clayoquot	1	0	0	0	0	0	0	0
2 Bulkley-Nechako	2	0	0	1	0	0	0	0
4 Cariboo	2	1	1	2	1	4	0	0
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	6	11	0	4	8	2	15	1
7 Central Kootenay	0	0	1	0	0	3	0	1
8 Central Okanagan	15	3	0	0	7	6	0	1
9 Columbia-Shuswap	0	0	0	3	1	3	0	0
10 Comox-Strathcona	6	1	0	0	2	1	0	0
11 Cowichan Valley	7	2	1	3	0	0	0	0
12 Dewdney-Alouette	39	62	0	10	31	17	10	26
13 East Kootenay	3	2	0	0	0	0	0	0
14 Fraser-Cheam	9	3	0	0	1	4	3	0
15 Fraser-Fort George	5	1	0	0	0	0	1	1
17 Kitimat-Stikine	8	2	0	0	1	4	0	0
18 Kootenay Boundary	5	0	0	1	1	2	1	0
19 Mount Waddington	0	0	1	0	0	0	0	0
20 Nanaimo	8	1	0	0	3	1	0	0
21 North Okanagan	6	3	1	8	7	8	0	0
22 Okanagan-Similkameen	7	1	1	3	2	6	0	0
23 Peace River	9	0	1	0	1	2	0	1
24 Powell River	4	0	0	0	0	1	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	0
26 Squamish-Lillooet	0	2	0	0	0	3	0	0
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	2	0	0	0	0	1	0	0
29 Thompson-Nicola	6	2	0	12	3	9	0	1
30 Fort Nelson/Liard	1	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>314</b>	<b>220</b>	<b>18</b>	<b>196</b>	<b>127</b>	<b>140</b>	<b>13</b>	<b>79</b>
3 Capital	33	7	1	47	3	25	0	2
16 Greater Vancouver	281	213	17	149	124	115	13	77
<b>TOTAL</b>	<b>465</b>	<b>317</b>	<b>25</b>	<b>243</b>	<b>196</b>	<b>217</b>	<b>43</b>	<b>111</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 7  
(Continued)

Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia  
by Regional Hospital District by Primary Area of Responsibility  
October 1991

Regional Hospital District	Adult/ Drug	Rehab/ Vocational	Education	Counselling	Admini- stration	General Nursing	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>5</b>	<b>11</b>	<b>6</b>	<b>27</b>	<b>34</b>	<b>26</b>	<b>75</b>	<b>694</b>
1 Alberni-Clayoquot	0	0	0	1	0	0	2	4
2 Bulkley-Nechako	0	0	0	0	1	0	1	5
4 Cariboo	0	0	1	0	2	1	0	15
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	1	2	1	2	3	2	6	64
7 Central Kootenay	0	0	0	2	0	0	2	9
8 Central Okanagan	0	0	0	0	0	0	7	39
9 Columbia-Shuswap	0	0	0	1	0	0	4	12
10 Comox-Strathcona	0	1	0	1	0	0	2	14
11 Cowichan Valley	0	0	0	0	0	0	2	15
12 Dewdney-Alouette	3	6	2	2	13	12	28	261
13 East Kootenay	0	0	0	0	0	1	0	6
14 Fraser-Cheam	0	0	0	0	2	2	2	26
15 Fraser-Fort George	0	0	0	6	0	1	2	17
17 Kitimat-Stikine	0	0	0	2	0	1	0	18
18 Kootenay Boundary	0	0	0	0	0	0	3	13
19 Mount Waddington	0	0	0	0	0	0	0	1
20 Nanaimo	0	0	1	1	2	0	2	19
21 North Okanagan	0	1	1	1	5	3	5	49
22 Okanagan-Similkameen	0	0	0	0	1	1	1	23
23 Peace River	0	0	0	1	0	1	1	17
24 Powell River	0	0	0	2	0	0	0	7
25 Skeena-Queen Charlotte	0	0	0	2	0	0	0	2
26 Squamish-Lillooet	0	0	0	1	0	0	0	6
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	2	5
29 Thompson-Nicola	1	1	0	2	5	1	3	46
30 Fort Nelson/Liard	0	0	0	0	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>26</b>	<b>22</b>	<b>22</b>	<b>35</b>	<b>47</b>	<b>75</b>	<b>190</b>	<b>1,524</b>
3 Capital	1	0	0	2	8	7	14	150
16 Greater Vancouver	25	22	22	33	39	68	176	1,374
<b>TOTAL</b>	<b>31</b>	<b>33</b>	<b>28</b>	<b>62</b>	<b>81</b>	<b>101</b>	<b>265</b>	<b>2,218</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 196 practising RPNs who did not provide this information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 8

**Practising Registered Psychiatric Nurses' Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Primary Area of Responsibility**

**October 1991**

<b>Regional Hospital District</b>	<b>Acute Adult Psychiatry</b>	<b>Chronic Adult Psychiatry</b>	<b>Child Psychiatry</b>	<b>Mental Retardation</b>	<b>Psycho- geriatric</b>	<b>Geriatric</b>	<b>Corrections</b>	<b>Forensic</b>
<b>Non-Metropolitan - Subtotal</b>	<b>1.10</b>	<b>0.70</b>	<b>0.05</b>	<b>0.34</b>	<b>0.50</b>	<b>0.56</b>	<b>0.22</b>	<b>0.23</b>
1 Alberni-Clayoquot	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Bulkley-Nechako	0.53	0.00	0.00	0.26	0.00	0.00	0.00	0.00
4 Cariboo	0.34	0.17	0.17	0.34	0.17	0.67	0.00	0.00
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.71	1.29	0.00	0.47	0.94	0.24	1.76	0.12
7 Central Kootenay	0.00	0.00	0.20	0.00	0.00	0.60	0.00	0.20
8 Central Okanagan	1.44	0.29	0.00	0.00	0.67	0.57	0.00	0.10
9 Columbia-Shuswap	0.00	0.00	0.00	0.75	0.25	0.75	0.00	0.00
10 Comox-Strathcona	0.74	0.12	0.00	0.00	0.25	0.12	0.00	0.00
11 Cowichan Valley	1.23	0.35	0.18	0.53	0.00	0.00	0.00	0.00
12 Dewdney-Alouette	4.28	6.81	0.00	1.10	3.40	1.87	1.10	2.86
13 East Kootenay	0.63	0.42	0.00	0.00	0.00	0.00	0.00	0.00
14 Fraser-Cheam	1.36	0.45	0.00	0.00	0.15	0.60	0.45	0.00
15 Fraser-Fort George	0.58	0.12	0.00	0.00	0.00	0.00	0.12	0.12
17 Kitimat-Stikine	1.97	0.49	0.00	0.00	0.25	0.99	0.00	0.00
18 Kootenay Boundary	1.67	0.00	0.00	0.33	0.33	0.67	0.33	0.00
19 Mount Waddington	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00
20 Nanaimo	0.85	0.11	0.00	0.00	0.32	0.11	0.00	0.00
21 North Okanagan	1.05	0.53	0.18	1.40	1.23	1.40	0.00	0.00
22 Okanagan-Similkameen	1.10	0.16	0.16	0.47	0.31	0.94	0.00	0.00
23 Peace River	1.84	0.00	0.20	0.00	0.20	0.41	0.00	0.20
24 Powell River	2.18	0.00	0.00	0.00	0.00	0.54	0.00	0.00
25 Skeena-Queen Charlotte	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26 Squamish-Lillooet	0.00	0.88	0.00	0.00	0.00	1.33	0.00	0.00
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	1.08	0.00	0.00	0.00	0.00	0.54	0.00	0.00
29 Thompson-Nicola	0.60	0.20	0.00	1.20	0.30	0.90	0.00	0.10
30 Fort Nelson/Liard	2.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>1.72</b>	<b>1.20</b>	<b>0.10</b>	<b>1.07</b>	<b>0.70</b>	<b>0.77</b>	<b>0.07</b>	<b>0.43</b>
3 Capital	1.11	0.24	0.03	1.58	0.10	0.84	0.00	0.07
16 Greater Vancouver	1.84	1.39	0.11	0.97	0.81	0.75	0.09	0.50
<b>TOTAL</b>	<b>1.45</b>	<b>0.99</b>	<b>0.08</b>	<b>0.76</b>	<b>0.61</b>	<b>0.68</b>	<b>0.13</b>	<b>0.35</b>

<sup>1</sup>Definitions are as in the attached text.

Table 8  
(Continued)

Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia  
per 10,000 Population by Regional Hospital District by Primary Area of Responsibility  
October 1991

Regional Hospital District	Adult/ Drug	Rehab/ Vocational	Education	Counselling	Admini- stration	General Nursing	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>0.04</b>	<b>0.08</b>	<b>0.04</b>	<b>0.20</b>	<b>0.25</b>	<b>0.19</b>	<b>0.54</b>	<b>5.04</b>
1 Alberni-Clayoquot	0.00	0.00	0.00	0.33	0.00	0.00	0.66	1.32
2 Bulkley-Nechako	0.00	0.00	0.00	0.00	0.26	0.00	0.26	1.32
4 Cariboo	0.00	0.00	0.17	0.00	0.34	0.17	0.00	2.52
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.12	0.24	0.12	0.24	0.35	0.24	0.71	7.52
7 Central Kootenay	0.00	0.00	0.00	0.40	0.00	0.00	0.40	1.79
8 Central Okanagan	0.00	0.00	0.00	0.00	0.00	0.00	0.67	3.73
9 Columbia-Shuswap	0.00	0.00	0.00	0.25	0.00	0.00	1.00	3.00
10 Comox-Strathcona	0.00	0.12	0.00	0.12	0.00	0.00	0.25	1.74
11 Cowichan Valley	0.00	0.00	0.00	0.00	0.00	0.00	0.35	2.64
12 Dewdney-Alouette	0.33	0.66	0.22	0.22	1.43	1.32	3.07	28.66
13 East Kootenay	0.00	0.00	0.00	0.00	0.00	0.21	0.00	1.27
14 Fraser-Cheam	0.00	0.00	0.00	0.00	0.30	0.30	0.30	3.92
15 Fraser-Fort George	0.00	0.00	0.00	0.69	0.00	0.12	0.23	1.96
17 Kitimat-Stikine	0.00	0.00	0.00	0.49	0.00	0.25	0.00	4.44
18 Kootenay Boundary	0.00	0.00	0.00	0.00	0.00	0.00	1.00	4.33
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
20 Nanaimo	0.00	0.00	0.11	0.11	0.21	0.00	0.21	2.02
21 North Okanagan	0.00	0.18	0.18	0.18	0.88	0.53	0.88	8.58
22 Okanagan-Similkameen	0.00	0.00	0.00	0.00	0.16	0.16	0.16	3.62
23 Peace River	0.00	0.00	0.00	0.20	0.00	0.20	0.20	3.47
24 Powell River	0.00	0.00	0.00	1.09	0.00	0.00	0.00	3.81
25 Skeena-Queen Charlotte	0.00	0.00	0.00	0.86	0.00	0.00	0.00	0.86
26 Squamish-Lillooet	0.00	0.00	0.00	0.44	0.00	0.00	0.00	2.65
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.00	0.00	0.00	0.00	0.00	0.00	1.08	2.71
29 Thompson-Nicola	0.10	0.10	0.00	0.20	0.50	0.10	0.30	4.61
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.22
<b>Metropolitan - Subtotal</b>	<b>0.14</b>	<b>0.12</b>	<b>0.12</b>	<b>0.19</b>	<b>0.26</b>	<b>0.41</b>	<b>1.04</b>	<b>8.34</b>
3 Capital	0.03	0.00	0.00	0.07	0.27	0.24	0.47	5.04
16 Greater Vancouver	0.16	0.14	0.14	0.22	0.26	0.44	1.15	8.98
<b>TOTAL</b>	<b>0.10</b>	<b>0.10</b>	<b>0.09</b>	<b>0.19</b>	<b>0.25</b>	<b>0.32</b>	<b>0.83</b>	<b>6.92</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 196 practising RPNs who did not provide this information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 9

Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia

by Regional Hospital District by Employment Position

October 1991

Regional Hospital District	General/ Staff Nurse	Head Nurse/ Assistant Head Nurse/ Team Leader <sup>2</sup>	Supervisor/ Coordinator	Director/ Associate/ Assistant Director <sup>3</sup>	Instructor <sup>4</sup>	Community Worker/ Nurse	Other <sup>5</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>377</b>	<b>73</b>	<b>44</b>	<b>31</b>	<b>8</b>	<b>47</b>	<b>114</b>	<b>694</b>
1 Alberni-Clayoquot	2	0	1	0	0	0	1	4
2 Bulkley-Nechako	2	0	1	0	0	0	2	5
4 Cariboo	5	1	4	1	0	1	3	15
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	40	8	2	3	0	2	9	64
7 Central Kootenay	2	0	0	1	1	2	3	9
8 Central Okanagan	26	1	2	3	0	1	6	39
9 Columbia-Shuswap	4	0	1	0	0	0	7	12
10 Comox-Strathcona	8	1	1	0	0	2	2	14
11 Cowichan Valley	8	2	0	1	0	2	2	15
12 Dewdney-Alouette	150	43	16	9	3	9	31	261
13 East Kootenay	5	0	0	0	0	1	0	6
14 Fraser-Chemam	16	1	1	2	2	0	4	26
15 Fraser-Fort George	6	0	1	0	0	7	3	17
17 Kitimat-Stikine	13	1	0	0	0	3	1	18
18 Kootenay Boundary	4	5	0	0	0	1	3	13
19 Mount Waddington	0	0	1	0	0	0	0	1
20 Nanaimo	11	0	1	1	1	2	3	19
21 North Okanagan	23	3	4	3	0	4	12	49
22 Okanagan-Similkameen	12	1	2	2	1	3	2	23
23 Peace River	11	1	0	1	0	3	1	17
24 Powell River	5	0	1	0	0	0	1	7
25 Skeena-Queen Charlotte	0	0	1	0	0	0	1	2
26 Squamish-Lillooet	3	0	0	0	0	1	2	6
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	2	1	0	0	0	0	2	5
29 Thompson-Nicola	18	4	4	4	0	3	13	46
30 Fort Nelson/Liard	1	0	0	0	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>946</b>	<b>154</b>	<b>65</b>	<b>36</b>	<b>17</b>	<b>112</b>	<b>194</b>	<b>1,524</b>
3 Capital	93	7	15	7	0	6	22	150
16 Greater Vancouver	853	147	50	29	17	106	172	1,374
<b>TOTAL</b>	<b>1,323</b>	<b>227</b>	<b>109</b>	<b>67</b>	<b>25</b>	<b>159</b>	<b>308</b>	<b>2,218</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 8 Clinical Specialist positions.<sup>3</sup>Includes 55 Directors, 2 Associate Directors and 10 Assistant Directors.<sup>4</sup>Includes 10 Inservice/Staff Development positions.<sup>5</sup>Includes 201 practising RPNs who did not provide this information.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 10

**Practising Registered Psychiatric Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Regional Hospital District by Employment Position**  
**October 1991**

Regional Hospital District	General/ Staff Nurse	Head Nurse/ Assistant Head Nurse/ Team Leader <sup>2</sup>	Supervisor/ Coordinator	Director/ Associate/ Assistant Director <sup>3</sup>	Instructor <sup>4</sup>	Community Worker/ Nurse	Other <sup>5</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>2.74</b>	<b>0.53</b>	<b>0.32</b>	<b>0.23</b>	<b>0.06</b>	<b>0.34</b>	<b>0.83</b>	<b>5.04</b>
1 Alberni-Clayoquot	0.66	0.00	0.33	0.00	0.00	0.00	0.33	1.32
2 Bulkley-Nechako	0.53	0.00	0.26	0.00	0.00	0.00	0.53	1.32
4 Cariboo	0.84	0.17	0.67	0.17	0.00	0.17	0.50	2.52
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	4.70	0.94	0.24	0.35	0.00	0.24	1.06	7.52
7 Central Kootenay	0.40	0.00	0.00	0.20	0.20	0.40	0.60	1.79
8 Central Okanagan	2.49	0.10	0.19	0.29	0.00	0.10	0.57	3.73
9 Columbia-Shuswap	1.00	0.00	0.25	0.00	0.00	0.00	1.75	3.00
10 Comox-Strathcona	0.99	0.12	0.12	0.00	0.00	0.25	0.25	1.74
11 Cowichan Valley	1.41	0.35	0.00	0.18	0.00	0.35	0.35	2.64
12 Dewdney-Alouette	16.47	4.72	1.76	0.99	0.33	0.99	3.40	28.66
13 East Kootenay	1.05	0.00	0.00	0.00	0.00	0.21	0.00	1.27
14 Fraser-Cheam	2.41	0.15	0.15	0.30	0.30	0.00	0.60	3.92
15 Fraser-Fort George	0.69	0.00	0.12	0.00	0.00	0.81	0.35	1.96
17 Kitimat-Stikine	3.21	0.25	0.00	0.00	0.00	0.74	0.25	4.44
18 Kootenay Boundary	1.33	1.67	0.00	0.00	0.00	0.33	1.00	4.33
19 Mount Waddington	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.71
20 Nanaimo	1.17	0.00	0.11	0.11	0.11	0.21	0.32	2.02
21 North Okanagan	4.03	0.53	0.70	0.53	0.00	0.70	2.10	8.58
22 Okanagan-Similkameen	1.89	0.16	0.31	0.31	0.16	0.47	0.31	3.62
23 Peace River	2.25	0.20	0.00	0.20	0.00	0.61	0.20	3.47
24 Powell River	2.72	0.00	0.54	0.00	0.00	0.00	0.54	3.81
25 Skeena-Queen Charlotte	0.00	0.00	0.43	0.00	0.00	0.00	0.43	0.86
26 Squamish-Lillooet	1.33	0.00	0.00	0.00	0.00	0.44	0.88	2.65
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	1.08	0.54	0.00	0.00	0.00	0.00	1.08	2.71
29 Thompson-Nicola	1.80	0.40	0.40	0.40	0.00	0.30	1.30	4.61
30 Fort Nelson/Liard	2.22	0.00	0.00	0.00	0.00	0.00	0.00	2.22
<b>Metropolitan - Subtotal</b>	<b>5.18</b>	<b>0.84</b>	<b>0.36</b>	<b>0.20</b>	<b>0.09</b>	<b>0.61</b>	<b>1.06</b>	<b>8.34</b>
3 Capital	3.13	0.24	0.50	0.24	0.00	0.20	0.74	5.04
16 Greater Vancouver	5.58	0.96	0.33	0.19	0.11	0.69	1.12	8.98
<b>TOTAL</b>	<b>4.13</b>	<b>0.71</b>	<b>0.34</b>	<b>0.21</b>	<b>0.08</b>	<b>0.50</b>	<b>0.96</b>	<b>6.92</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 8 Clinical Specialist positions.

<sup>3</sup>Includes 55 Directors, 2 Associate Directors and 10 Assistant Directors.

<sup>4</sup>Includes 10 Inservice/Staff Development positions.

<sup>5</sup>Includes 201 practising RPNs who did not provide this information.

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Table 11

**Analysis of Change in the Number of Registered Psychiatric Nurses<sup>1</sup>**  
**in British Columbia by Regional Hospital District**  
**October 1989 to October 1991**

Regional Hospital District	1989 <sup>3</sup>	New Registrants <sup>2</sup> by Place of Graduation				Re-Act <sup>5</sup>	Attr'n <sup>6</sup>	Migr'n <sup>7</sup>	1991 <sup>4</sup>
		B.C.	O.Can. <sup>4</sup>	Other	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>792</b>	<b>13</b>	<b>10</b>	<b>30</b>	<b>53</b>	<b>35</b>	<b>73</b>	<b>43</b>	<b>850</b>
1 Alberni-Clayoquot	8	0	0	0	0	0	1	0	7
2 Bulkley-Nechako	7	0	0	0	0	0	1	2	8
4 Cariboo	21	0	1	0	1	0	4	1	19
5 Central Coast	1	0	0	0	0	0	0	-1	0
6 Central Fraser Valley	68	1	2	6	9	3	7	5	78
7 Central Kootenay	4	0	1	0	1	1	1	8	13
8 Central Okanagan	52	0	0	4	4	1	3	-3	51
9 Columbia-Shuswap	20	0	1	0	1	1	3	0	19
10 Comox-Strathcona	15	0	0	1	1	3	3	3	19
11 Cowichan Valley	19	0	0	1	1	1	1	3	23
12 Dewdney-Alouette	284	7	0	7	14	4	20	12	294
13 East Kootenay	12	0	0	1	1	0	5	-1	7
14 Fraser-Cheam	28	1	0	1	2	2	4	3	31
15 Fraser-Fort George	23	0	1	1	2	0	3	0	22
17 Kitimat-Stikine	25	0	0	1	1	0	2	-3	21
18 Kootenay Boundary	8	0	0	0	0	1	0	4	13
19 Mount Waddington	2	0	0	0	0	0	0	-1	1
20 Nanaimo	17	0	0	1	1	5	1	6	28
21 North Okanagan	54	1	0	0	1	4	0	-4	55
22 Okanagan-Similkameen	27	0	0	0	0	2	2	-1	26
23 Peace River	20	0	1	1	2	1	3	1	21
24 Powell River	3	1	1	2	4	1	0	0	8
25 Skeena-Queen Charlotte	1	0	0	1	1	0	0	0	2
26 Squamish-Lillooet	4	0	0	0	0	1	0	1	6
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	4	0	0	0	0	1	0	5	10
29 Thompson-Nicola	63	2	1	2	5	3	8	3	66
30 Fort Nelson/Liard	2	0	1	0	1	0	1	0	2
<b>Metropolitan - Subtotal</b>	<b>1,725</b>	<b>72</b>	<b>16</b>	<b>65</b>	<b>153</b>	<b>66</b>	<b>144</b>	<b>-43</b>	<b>1,757</b>
3 Capital	170	5	2	7	14	7	15	-3	173
16 Greater Vancouver	1,555	67	14	58	139	59	129	-40	1,584
<b>TOTAL</b>	<b>2,517</b>	<b>85</b>	<b>26</b>	<b>95</b>	<b>206</b>	<b>101</b>	<b>217</b>	<b>0</b>	<b>2,607</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>RPNs who were practising members in Oct 1991 and whose date of initial registration was after Oct 1989.

<sup>3</sup>Number of RPNs as at Oct 1989. These figures differ from those in ROLLCALL 89.

<sup>4</sup>Other Canada.

<sup>5</sup>RPNs who were practising members in Oct 1991 but not in Oct 1989 and who were registered for the first time before Oct 1989.

<sup>6</sup>RPNs who were practising members in Oct 1989 but not in Oct 1991.

<sup>7</sup>Net effect of intraprovincial migration.

<sup>8</sup>Number of RPNs as at Oct 1991.

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## **VII. NUTRITION AND DIETARY SERVICES**



## DIETITIANS AND NUTRITIONISTS



## DIETITIANS AND NUTRITIONISTS

**Definition:** A dietitian/nutritionist

is a professional uniquely prepared for the practice of nutrition care through university education and required practicum in food and nutrition as well as biological, social, and management sciences. The dietitian/nutritionist applies knowledge and skills in normal and therapeutic nutrition and in food service systems management to individuals, groups, institutions, organizations, and the community.<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the British Columbia Dietitians' and Nutritionists' Association is voluntary. However, registered members have exclusive use of the titles: *Registered Dietitian*, *Registered Nutritionist*, *Registered Dietitian/Nutritionist*, *R.D.N.*

**Date of Record:** December 1991.

**Source of Data:** The British Columbia Dietitians' and Nutritionists' Association (BCDNA).

**Preparation and Updating:**

The tables, derived solely from the registration database of the BCDNA, include registered dietitians and nutritionists who reported a British Columbia address at the date of record. Comparison with 1989 figures, which included members of the Canadian Dietetic Association, is of limited value and has not been presented.

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<sup>1</sup>The Canadian Dietetic Association.

**Definition of Terms:****1. Membership Status**

Dietitians and nutritionists registered with the BCDNA may hold a *practising* or *non-practising* membership, as shown in Table 1.

**2. Age and Sex**

Age information on dietitians and nutritionists, derived from the registration database of the BCDNA, is shown in Table 2, grouped according to standard age categories developed and used by Statistics Canada. At the date of record, the BCDNA membership included 611 females and 5 males; the distribution of male BCDNA membership is not shown separately.

**3. Employment Status**

Table 3 displays employment status of practising members of the BCDNA as reported on their annual registration renewal form. Members who reported being employed in nutrition/dietetics are classified as follows:

- (a) full-time;
- (b) part-time;
- (c) casual;
- (d) temporary;
- (e) on leave;
- (f) not known.

Members who reported employment status other than in nutrition/dietetics are classified as follows:

- (a) employed other;
- (b) not employed - includes unemployed, retired and student;
- (c) not known - employment status not reported.



#### 4. Principal Employing Institution

Table 4 shows type of principal employing institution for practising BCDNA members employed in nutrition/dietetics. The following categories are used:

- (a) General/Acute Care Hospital;
- (b) Extended Care Hospital;
- (c) Rehabilitation Hospital;
- (d) Paediatric Hospital;
- (e) Psychiatric Hospital;
- (f) Continuing/Long Term Care;
- (g) Public/Community Health Agency;
- (h) Voluntary/Non-Profit Agency;
- (i) Education/University/College;
- (j) Business/Industry;
- (k) Self Employed;
- (l) Other Health Care Facility.

#### 5. Principal Position of Employment

Principal employment position is reported annually on the BCDNA registration form. Table 5 shows this information for practising BCDNA members employed in nutrition/dietetics. The categories used in the table are:

- (a) Staff Dietitian/Nutritionist;
- (b) Senior Dietitian/Nutritionist;
- (c) Sole Charge;
- (d) Program Co-ordinator/Manager;
- (e) Department Head/Director;
- (f) Assistant Department Head/Director;
- (g) Instructor/Faculty Position;
- (h) Consultant;
- (i) Sales Representative.

#### 6. Principal Area of Responsibility

Table 6 reports principal area of responsibility for practising BCDNA members employed in nutrition/dietetics, as indicated on the BCDNA registration form. The categories used in the table are:

- (a) Administrative Food Service;
- (b) Administrative Clinical;
- (c) Clinical Therapeutic;
- (d) Community/Public Health;
- (e) Private Consultation;
- (f) Outpatient Counselling;
- (g) Education;
- (h) Sales/Marketing.

**Practising Dietitians and Nutritionists (Members)  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=546**

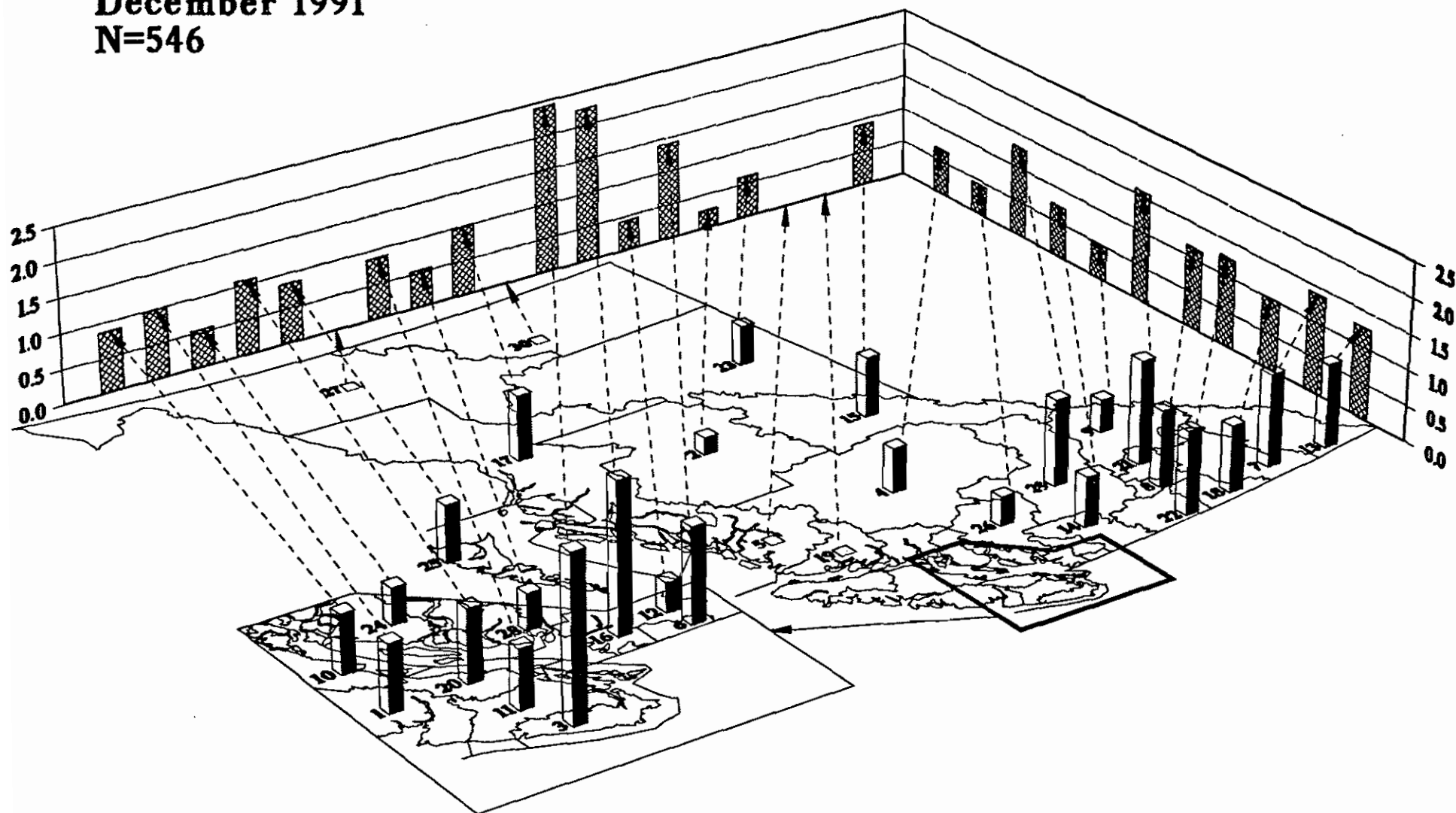


Table 1

Dietitians and Nutritionists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District

December 1991

Regional Hospital District	Number			Number per 10,000 Population		
	Practising	Non-Practising	TOTAL	Practising	Non-Practising	Total
<b>Non-Metropolitan - Subtotal</b>	<b>131</b>	<b>21</b>	<b>152</b>	<b>0.95</b>	<b>0.15</b>	<b>1.10</b>
1 Alberni-Clayoquot	3	0	3	0.99	0.00	0.99
2 Bulkley-Nechako	1	1	2	0.26	0.26	0.53
4 Cariboo	4	1	5	0.67	0.17	0.84
5 Central Coast	0	0	0	0.00	0.00	0.00
6 Central Fraser Valley	12	1	13	1.41	0.12	1.53
7 Central Kootenay	7	1	8	1.40	0.20	1.59
8 Central Okanagan	12	3	15	1.15	0.29	1.44
9 Columbia-Shuswap	2	1	3	0.50	0.25	0.75
10 Comox-Strathcona	7	2	9	0.87	0.25	1.12
11 Cowichan Valley	5	1	6	0.88	0.18	1.06
12 Dewdney-Alouette	4	0	4	0.44	0.00	0.44
13 East Kootenay	6	0	6	1.27	0.00	1.27
14 Fraser-Cheam	5	2	7	0.75	0.30	1.06
15 Fraser-Fort George	8	0	8	0.92	0.00	0.92
17 Kitimat-Stikine	4	0	4	0.99	0.00	0.99
18 Kootenay Boundary	3	1	4	1.00	0.33	1.33
19 Mount Waddington	0	0	0	0.00	0.00	0.00
20 Nanaimo	10	2	12	1.07	0.21	1.28
21 North Okanagan	9	1	10	1.58	0.18	1.75
22 Okanagan-Similkameen	8	1	9	1.26	0.16	1.42
23 Peace River	3	0	3	0.61	0.00	0.61
24 Powell River	1	0	1	0.54	0.00	0.54
25 Skeena-Queen Charlotte	2	0	2	0.86	0.00	0.86
26 Squamish-Lillooet	1	0	1	0.44	0.00	0.44
27 Stikine	0	0	0	0.00	0.00	0.00
28 Sunshine Coast	1	1	2	0.54	0.54	1.08
29 Thompson-Nicola	13	2	15	1.30	0.20	1.50
30 Fort Nelson/Liard	0	0	0	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>415</b>	<b>49</b>	<b>464</b>	<b>2.27</b>	<b>0.27</b>	<b>2.54</b>
3 Capital	72	3	75	2.42	0.10	2.52
16 Greater Vancouver	343	46	389	2.24	0.30	2.54
<b>TOTAL</b>	<b>546</b>	<b>70</b>	<b>616</b>	<b>1.70</b>	<b>0.22</b>	<b>1.92</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 2

Dietitians and Nutritionists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Age

December 1991

Regional Hospital District	Under 25	25-34	35-44	45-54	55-64	65+	Subtotal	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>52</b>	<b>47</b>	<b>28</b>	<b>9</b>	<b>0</b>	<b>137</b>	<b>15</b>	<b>152</b>
1 Alberni-Clayoquot	0	0	2	1	0	0	3	0	3
2 Bulkley-Nechako	0	2	0	0	0	0	2	0	2
4 Cariboo	0	2	3	0	0	0	5	0	5
5 Central Coast	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	4	4	2	0	0	10	3	13
7 Central Kootenay	0	3	2	2	1	0	8	0	8
8 Central Okanagan	0	6	6	0	1	0	13	2	15
9 Columbia-Shuswap	0	1	1	1	0	0	3	0	3
10 Comox-Strathcona	0	3	2	1	1	0	7	2	9
11 Cowichan Valley	0	3	1	2	0	0	6	0	6
12 Dewdney-Alouette	0	1	1	1	0	0	3	1	4
13 East Kootenay	0	1	0	4	0	0	5	1	6
14 Fraser-Cheam	0	5	0	1	0	0	6	1	7
15 Fraser-Fort George	0	1	5	1	1	0	8	0	8
17 Kitimat-Stikine	0	2	0	1	1	0	4	0	4
18 Kootenay Boundary	0	2	1	1	0	0	4	0	4
19 Mount Waddington	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	1	4	5	1	0	11	1	12
21 North Okanagan	0	5	4	0	0	0	9	1	10
22 Okanagan-Similkameen	1	0	3	2	1	0	7	2	9
23 Peace River	0	1	2	0	0	0	3	0	3
24 Powell River	0	0	0	1	0	0	1	0	1
25 Skeena-Queen Charlotte	0	1	1	0	0	0	2	0	2
26 Squamish-Lillooet	0	1	0	0	0	0	1	0	1
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	1	0	0	2	0	2
29 Thompson-Nicola	0	7	4	1	2	0	14	1	15
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>0</b>	<b>141</b>	<b>145</b>	<b>45</b>	<b>37</b>	<b>2</b>	<b>370</b>	<b>94</b>	<b>464</b>
3 Capital	0	17	23	15	7	0	62	13	75
16 Greater Vancouver	0	124	122	30	30	2	308	81	389
<b>TOTAL</b>	<b>1</b>	<b>193</b>	<b>192</b>	<b>73</b>	<b>46</b>	<b>2</b>	<b>507</b>	<b>109</b>	<b>616</b>

<sup>1</sup>Definitions are as in the attached text. At the date of record, BCDNA membership included 611 females and 5 males.

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 The University of British Columbia

Table 3

**Practising Dietitians and Nutritionists (Members)<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**December 1991**

Regional Hospital District	Employed in Nutrition/Dietetics							Employed Other Field	Not Employed	Unknown	Total
	Full- time	Part- time	Casual	Temp- orary	On Leave	Unknown	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>76</b>	<b>36</b>	<b>5</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>121</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>131</b>
1 Alberni-Clayoquot	2	1	0	0	0	0	3	0	0	0	3
2 Bulkley-Nechako	1	0	0	0	0	0	1	0	0	0	1
4 Cariboo	3	1	0	0	0	0	4	0	0	0	4
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	7	0	1	0	0	0	8	2	0	2	12
7 Central Kootenay	2	2	2	0	0	0	6	0	1	0	7
8 Central Okanagan	8	3	0	0	0	0	11	0	0	1	12
9 Columbia-Shuswap	2	0	0	0	0	0	2	0	0	0	2
10 Comox-Strathcona	4	0	1	0	1	1	7	0	0	0	7
11 Cowichan Valley	2	3	0	0	0	0	5	0	0	0	5
12 Dewdney-Alouette	1	2	0	0	1	0	4	0	0	0	4
13 East Kootenay	4	1	0	0	0	0	5	0	0	1	6
14 Fraser-Cheam	3	1	0	0	0	1	5	0	0	0	5
15 Fraser-Fort George	5	3	0	0	0	0	8	0	0	0	8
17 Kitimat-Stikine	3	1	0	0	0	0	4	0	0	0	4
18 Kootenay Boundary	2	0	1	0	0	0	3	0	0	0	3
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	6	4	0	0	0	0	10	0	0	0	10
21 North Okanagan	5	3	0	0	0	0	8	0	0	1	9
22 Okanagan-Similkameen	3	5	0	0	0	0	8	0	0	0	8
23 Peace River	2	1	0	0	0	0	3	0	0	0	3
24 Powell River	1	0	0	0	0	0	1	0	0	0	1
25 Skeena-Queen Charlotte	1	1	0	0	0	0	2	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	1	0	1
27 Stikine	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	0	1	0	0	0	1
29 Thompson-Nicola	8	4	0	0	0	0	12	0	1	0	13
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>227</b>	<b>116</b>	<b>18</b>	<b>4</b>	<b>5</b>	<b>14</b>	<b>384</b>	<b>6</b>	<b>4</b>	<b>21</b>	<b>415</b>
3 Capital	40	20	1	0	1	1	63	1	1	7	72
16 Greater Vancouver	187	96	17	4	4	13	321	5	3	14	343
<b>TOTAL</b>	<b>303</b>	<b>152</b>	<b>23</b>	<b>4</b>	<b>7</b>	<b>16</b>	<b>505</b>	<b>8</b>	<b>7</b>	<b>26</b>	<b>546</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 4

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Employing Institution

December 1991

Regional Hospital District	General/ Acute Care Hospital	Extended Care Hospital	Rehabilitation Hospital	Paediatric Hospital	Psychiatric Hospital	Continuing/ Long Term Care	Public/ Community Health Agency
<b>Non-Metropolitan - Subtotal</b>	<b>81</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>11</b>
1 Alberni-Clayoquot	2	0	0	0	0	1	0
2 Bulkley-Nechako	1	0	0	0	0	0	0
4 Cariboo	1	0	0	0	0	1	1
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	6	0	0	0	0	2	0
7 Central Kootenay	5	0	0	0	0	0	1
8 Central Okanagan	6	2	0	0	0	0	1
9 Columbia-Shuswap	1	0	0	0	0	0	0
10 Comox-Strathcona	4	0	0	0	0	2	0
11 Cowichan Valley	2	1	0	0	0	1	0
12 Dewdney-Alouette	3	1	0	0	0	0	0
13 East Kootenay	4	0	0	0	0	0	1
14 Fraser-Cheam	4	0	0	0	0	0	0
15 Fraser-Fort George	6	0	0	0	0	1	1
17 Kitimat-Stikine	2	0	0	0	0	1	1
18 Kootenay Boundary	2	1	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	4	1	0	0	0	2	2
21 North Okanagan	7	0	0	0	0	0	1
22 Okanagan-Similkameen	7	0	0	0	0	1	0
23 Peace River	2	0	0	0	0	1	0
24 Powell River	1	0	0	0	0	0	0
25 Skeena-Queen Charlotte	2	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	0	0
29 Thompson-Nicola	8	1	0	0	0	0	2
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>185</b>	<b>10</b>	<b>3</b>	<b>12</b>	<b>11</b>	<b>69</b>	<b>36</b>
3 Capital	30	6	1	1	1	10	6
16 Greater Vancouver	155	4	2	11	10	59	30
<b>TOTAL</b>	<b>266</b>	<b>17</b>	<b>3</b>	<b>12</b>	<b>11</b>	<b>82</b>	<b>47</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 4  
(Continued)

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Employing Institution

December 1991

Regional Hospital District	Voluntary/ Non-Profit Agency	Education/ University/ College	Business/ Industry	Self Employed	Other Health Care Facility	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>121</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	3
2 Bulkley-Nechako	0	0	0	0	0	0	1
4 Cariboo	0	0	0	0	1	0	4
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	0	8
7 Central Kootenay	0	0	0	0	0	0	6
8 Central Okanagan	0	0	0	1	0	1	11
9 Columbia-Shuswap	0	0	0	0	1	0	2
10 Comox-Strathcona	0	0	0	0	0	1	7
11 Cowichan Valley	1	0	0	0	0	0	5
12 Dewdney-Alouette	0	0	0	0	0	0	4
13 East Kootenay	0	0	0	0	0	0	5
14 Fraser-Cheam	0	0	0	0	0	1	5
15 Fraser-Fort George	0	0	0	0	0	0	8
17 Kitimat-Stikine	0	0	0	0	0	0	4
18 Kootenay Boundary	0	0	0	0	0	0	3
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	0	0	0	0	1	0	10
21 North Okanagan	0	0	0	0	0	0	8
22 Okanagan-Similkameen	0	0	0	0	0	0	8
23 Peace River	0	0	0	0	0	0	3
24 Powell River	0	0	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	1
29 Thompson-Nicola	0	0	0	1	0	0	12
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>2</b>	<b>10</b>	<b>19</b>	<b>16</b>	<b>3</b>	<b>8</b>	<b>384</b>
3 Capital	0	1	1	3	2	1	63
16 Greater Vancouver	2	9	18	13	1	7	321
<b>TOTAL</b>	<b>3</b>	<b>10</b>	<b>19</b>	<b>18</b>	<b>6</b>	<b>11</b>	<b>505</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 5

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Position

December 1991

Regional Hospital District	Staff Dietitian/ Nutritionist	Senior Dietitian/ Nutritionist	Sole Charge	Program Co-ordinator/ Manager	Department Head/Director	Assistant Department Head/Director
<b>Non-Metropolitan - Subtotal</b>	<b>51</b>	<b>7</b>	<b>23</b>	<b>7</b>	<b>20</b>	<b>3</b>
1 Alberni-Clayoquot	1	0	2	0	0	0
2 Bulkley-Nechako	0	0	1	0	0	0
4 Cariboo	1	0	2	0	1	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	3	1	0	0	3	0
7 Central Kootenay	4	0	0	0	2	0
8 Central Okanagan	5	1	2	0	1	0
9 Columbia-Shuswap	0	0	2	0	0	0
10 Comox-Strathcona	1	1	2	0	2	0
11 Cowichan Valley	2	0	1	1	1	0
12 Dewdney-Alouette	2	0	0	1	1	0
13 East Kootenay	3	0	2	0	0	0
14 Fraser-Cheam	2	1	0	0	1	0
15 Fraser-Fort George	5	0	0	1	1	0
17 Kitimat-Stikine	1	0	3	0	0	0
18 Kootenay Boundary	0	1	1	0	1	0
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	4	2	1	1	0	1
21 North Okanagan	5	0	1	1	1	0
22 Okanagan-Similkameen	5	0	1	0	1	0
23 Peace River	1	0	1	0	1	0
24 Powell River	0	0	0	0	1	0
25 Skeena-Queen Charlotte	1	0	0	0	1	0
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	0	0	0
29 Thompson-Nicola	5	0	0	2	1	2
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>175</b>	<b>27</b>	<b>27</b>	<b>36</b>	<b>32</b>	<b>8</b>
3 Capital	25	3	5	11	7	0
16 Greater Vancouver	150	24	22	25	25	8
<b>TOTAL</b>	<b>226</b>	<b>34</b>	<b>50</b>	<b>43</b>	<b>52</b>	<b>11</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued



Table 5  
(Continued)

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Position

December 1991

Regional Hospital District	Instructor/ Faculty Position	Consultant	Sales Representative	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>4</b>	<b>121</b>
1 Alberni-Clayoquot	0	0	0	0	3
2 Bulkley-Nechako	0	0	0	0	1
4 Cariboo	0	0	0	0	4
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	0	1	0	0	8
7 Central Kootenay	0	0	0	0	6
8 Central Okanagan	0	1	0	1	11
9 Columbia-Shuswap	0	0	0	0	2
10 Comox-Strathcona	0	0	0	1	7
11 Cowichan Valley	0	0	0	0	5
12 Dewdney-Alouette	0	0	0	0	4
13 East Kootenay	0	0	0	0	5
14 Fraser-Cheam	0	0	0	1	5
15 Fraser-Fort George	0	1	0	0	8
17 Kitimat-Stikine	0	0	0	0	4
18 Kootenay Boundary	0	0	0	0	3
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	0	1	0	0	10
21 North Okanagan	0	0	0	0	8
22 Okanagan-Similkameen	0	1	0	0	8
23 Peace River	0	0	0	0	3
24 Powell River	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0
27 Stikine	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	1
29 Thompson-Nicola	0	1	0	1	12
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>11</b>	<b>49</b>	<b>7</b>	<b>12</b>	<b>384</b>
3 Capital	0	10	1	1	63
16 Greater Vancouver	11	39	6	11	321
<b>TOTAL</b>	<b>11</b>	<b>55</b>	<b>7</b>	<b>16</b>	<b>505</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 6

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Area of Responsibility

December 1991

Regional Hospital District	Admin- istrative/ Food Service	Admin- istrative/ Clinical	Clinical/ Thera- peutic	Community/ Public Health	Private Consult- ation
<b>Non-Metropolitan - Subtotal</b>	<b>20</b>	<b>27</b>	<b>36</b>	<b>13</b>	<b>2</b>
1 Alberni-Clayoquot	0	2	0	0	0
2 Bulkley-Nechako	0	1	0	0	0
4 Cariboo	1	2	0	1	0
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	1	3	2	0	0
7 Central Kootenay	0	2	2	1	0
8 Central Okanagan	1	2	4	1	0
9 Columbia-Shuswap	0	1	0	1	0
10 Comox-Strathcona	1	1	3	0	0
11 Cowichan Valley	1	1	1	1	0
12 Dewdney-Alouette	1	1	1	0	0
13 East Kootenay	1	2	0	1	0
14 Fraser-Cheam	1	0	2	0	0
15 Fraser-Fort George	1	1	3	1	0
17 Kitimat-Stikine	3	0	0	1	0
18 Kootenay Boundary	1	1	1	0	0
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	1	1	4	2	1
21 North Okanagan	1	1	3	1	0
22 Okanagan-Similkameen	1	1	3	0	1
23 Peace River	0	2	0	0	0
24 Powell River	1	0	0	0	0
25 Skeena-Queen Charlotte	0	1	1	0	0
26 Squamish-Lillooet	0	0	0	0	0
27 Stikine	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0
29 Thompson-Nicola	2	1	6	2	0
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>56</b>	<b>67</b>	<b>143</b>	<b>32</b>	<b>18</b>
3 Capital	9	14	18	7	5
16 Greater Vancouver	47	53	125	25	13
<b>TOTAL</b>	<b>76</b>	<b>94</b>	<b>179</b>	<b>45</b>	<b>20</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 6  
(Continued)

Practising Dietitians and Nutritionists (Members)<sup>1</sup> Employed in Nutrition/Dietetics in British Columbia

by Regional Hospital District by Principal Area of Responsibility

December 1991

Regional Hospital District	Outpatient Counselling	Education	Sales/ Marketing	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>20</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>121</b>
1 Alberni-Clayoquot	1	0	0	0	3
2 Bulkley-Nechako	0	0	0	0	1
4 Cariboo	0	0	0	0	4
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	2	0	0	0	8
7 Central Kootenay	1	0	0	0	6
8 Central Okanagan	2	0	0	1	11
9 Columbia-Shuswap	0	0	0	0	2
10 Comox-Strathcona	1	0	0	1	7
11 Cowichan Valley	1	0	0	0	5
12 Dewdney-Alouette	1	0	0	0	4
13 East Kootenay	1	0	0	0	5
14 Fraser-Cheam	1	0	0	1	5
15 Fraser-Fort George	2	0	0	0	8
17 Kitimat-Stikine	0	0	0	0	4
18 Kootenay Boundary	0	0	0	0	3
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	1	0	0	0	10
21 North Okanagan	2	0	0	0	8
22 Okanagan-Similkameen	2	0	0	0	8
23 Peace River	1	0	0	0	3
24 Powell River	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0
27 Stikine	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	1
29 Thompson-Nicola	1	0	0	0	12
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>34</b>	<b>16</b>	<b>10</b>	<b>8</b>	<b>384</b>
3 Capital	7	1	1	1	63
16 Greater Vancouver	27	15	9	7	321
<b>TOTAL</b>	<b>54</b>	<b>16</b>	<b>10</b>	<b>11</b>	<b>505</b>

<sup>1</sup>Definitions are as in the attached text.

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## FOOD SERVICE SUPERVISORS



## FOOD SERVICE SUPERVISORS

**Definition:** A food service supervisor  
is responsible for "the operation of the entire dietetic department or of one or more sections in the department (depending on the size of the department or the complexity of the organization)."<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the Pacific Unit - Food Service Supervisors' Association is voluntary.

**Date of Record:** November 1989 and January 1992.

**Source of Data:** Pacific Unit - Food Service Supervisors' Association.

**Preparation and Updating:**

The table, derived solely from the membership list supplied by the Pacific Unit - Food Service Supervisors' Association, includes members who were British Columbia residents at the date of record.

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<sup>1</sup>*Guidelines For The Operation of the Department of Dietetics*. Published by "Authority of the Minister of National Health and Welfare", May, 1974.

**Food Service Supervisors (Members)  
per 10,000 Population  
by Regional Hospital District  
January 1992  
N=168**

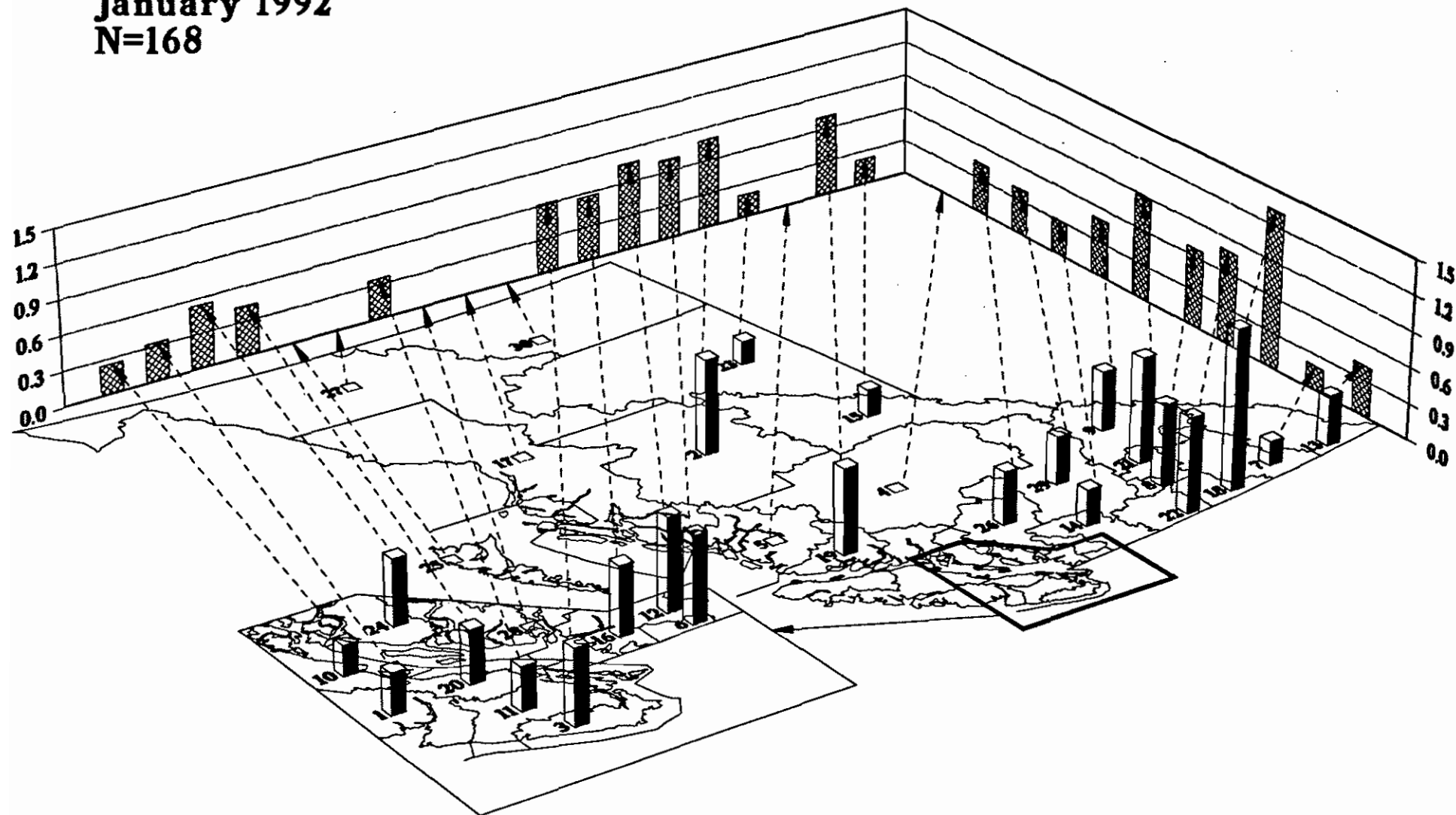




Table 1

Food Service Supervisors (Members)<sup>1</sup> in British Columbia

## by Regional Hospital District

November 1989 and January 1992

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989	1992	1989 <sup>2</sup>	1992	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>59</b>	<b>63</b>	<b>0.44</b>	<b>0.46</b>	<b>3.07</b>	<b>1.33</b>
1 Alberni-Clayoquot	1	1	0.33	0.33	*	*
2 Bulkley-Nechako	3	3	0.81	0.79	*	*
4 Cariboo	0	0	0.00	0.00	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	4	6	0.52	0.71	*	*
7 Central Kootenay	2	1	0.41	0.20	*	*
8 Central Okanagan	9	7	0.92	0.67	*	*
9 Columbia-Shuswap	1	2	0.25	0.50	*	*
10 Comox-Strathcona	1	2	0.13	0.25	*	*
11 Cowichan Valley	1	2	0.18	0.35	*	*
12 Dewdney-Alouette	6	7	0.73	0.77	*	*
13 East Kootenay	1	2	0.21	0.42	*	*
14 Fraser-Cheam	2	2	0.32	0.30	*	*
15 Fraser-Fort George	2	2	0.23	0.23	*	*
17 Kitimat-Stikine	0	0	0.00	0.00	*	*
18 Kootenay Boundary	3	4	1.01	1.33	*	*
19 Mount Waddington	1	1	0.70	0.71	*	*
20 Nanaimo	4	4	0.45	0.43	*	*
21 North Okanagan	5	5	0.89	0.88	*	*
22 Okanagan-Similkameen	5	5	0.81	0.79	*	*
23 Peace River	1	1	0.20	0.20	*	*
24 Powell River	2	1	1.10	0.54	*	*
25 Skeena-Queen Charlotte	0	0	0.00	0.00	*	*
26 Squamish-Lillooet	1	1	0.47	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	0	0	0.00	0.00	*	*
29 Thompson-Nicola	4	4	0.41	0.40	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>108</b>	<b>105</b>	<b>0.63</b>	<b>0.57</b>	<b>-1.29</b>	<b>-3.82</b>
3 Capital	20	18	0.71	0.61	-4.75	-6.91
16 Greater Vancouver	88	87	0.61	0.57	-0.53	-3.13
<b>TOTAL</b>	<b>167</b>	<b>168</b>	<b>0.55</b>	<b>0.52</b>	<b>0.28</b>	<b>-1.92</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword.<sup>3</sup>Rate of change (in percent) in the number.<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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<p><b>VIII. PSYCHOLOGICAL/ SOCIAL SERVICES</b></p>
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## PSYCHOLOGISTS



## PSYCHOLOGISTS

- Definition:** The practice of a psychologist includes
- "(a) the provision to individuals, groups, organizations, or the public of any service involving the application of principles, methods and procedures of understanding, predicting and influencing behaviour, including the principles of learning, perception, motivation, thinking, emotion and interpersonal relationships;
  - (b) the application of methods and procedures of interviewing, counselling, psychotherapy, behaviour therapy, behaviour modification, hypnosis, research; or
  - (c) the construction, administration and interpretation of tests of mental abilities, aptitudes, interests, opinions, attitudes, emotions, personality characteristics, motivations and psychophysiological characteristics and the assessment or diagnosis of behaviour, emotional and mental disorder..."<sup>1</sup>
- Governing Statute:** Psychologists Act, Revised Statutes of British Columbia, 1979, Chapter 342; Health Professions Amendment Act, 1989, Chapter 29, Sections 19-23; administered by the Ministry of Health.
- Governing Body:** College of Psychologists of British Columbia (CPBC). In order to practise as a psychologist in British Columbia, it is necessary to be registered by the CPBC.
- Date of Record:** December 1989 and December 1991.
- Source of Data:** College of Psychologists of British Columbia (CPBC).

**Preparation and Updating:**

The tables were prepared from registration data maintained by the CPBC and include psychologists who were British Columbia residents at the date of record.

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<sup>1</sup>Psychologists Act 1979, RSBC c. 342, p. 1.

See also *Canadian Classification and Dictionary of Occupations 1980*. Major Group 23, Unit Group 2315-110 through 2315-199, pp. 5-7, Ottawa: Employment and Immigration Canada.

**Definition of Terms:****1. Registration**

In order to practice in British Columbia, a psychologist must be registered with the CPBC. The tables include registered psychologists who had a British Columbia address at the date of record.

**2. Age and Sex**

Age and sex information on registered psychologists, derived from the CPBC registration database, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada. No registered psychologists were reported in the under 24 age category in 1991.

**3. Employment Status**

Employment status of registered psychologists in British Columbia is shown in Table 3.

**4. Primary Work Setting**

The primary work setting of registered psychologists employed in psychology in British Columbia is reported in Table 4. The categories used for primary work setting are:

- (a) Educational Facility - primary/secondary;
- (b) Educational Facility - post-secondary;
- (c) Psychiatric Hospital;
- (d) General Hospital;
- (e) Physical Medicine/Rehabilitation Facility;
- (f) Mental Health Clinic;
- (g) Government;
- (h) Private Practice;
- (i) Consulting Firm;
- (j) Other.

**5. Main Psychological Activity**

The main psychological activity of registered psychologists employed in British Columbia, as reported in the annual CPBC registration form, is reported in Table 5. The categories used are as follows:

- (a) Direct Service;
- (b) Consulting;
- (c) Administration;
- (d) Teaching;
- (e) Research.



## 6. Analysis of Change

Table 6 illustrates the sources of change which affected the stock of psychologists from 1989 to 1991.

*New registrants* are psychologists included in the December 1991 stock who registered with the CPBC *for the first time* subsequent to December 1989. New registrants are recorded according to their place of graduation: i.e., from B.C., Other Canadian Provinces (O.Can.), the United States (U.S.A.), or Other.

*Re-activations* (Re-Act) represent those psychologists who were not registered in B.C. in December 1989, but were registered in B.C. in December 1991, and whose date of initial registration was before December 1989.

*Attrition* (Attr'n) describes psychologists who were included in the December 1989 stock but who, because of death, retirement, suspension, out-of-province relocation or non-renewal of registration were not included in the December 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of psychologists among different Regional Hospital Districts. The net migration total is therefore zero.

**Psychologists  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=744**

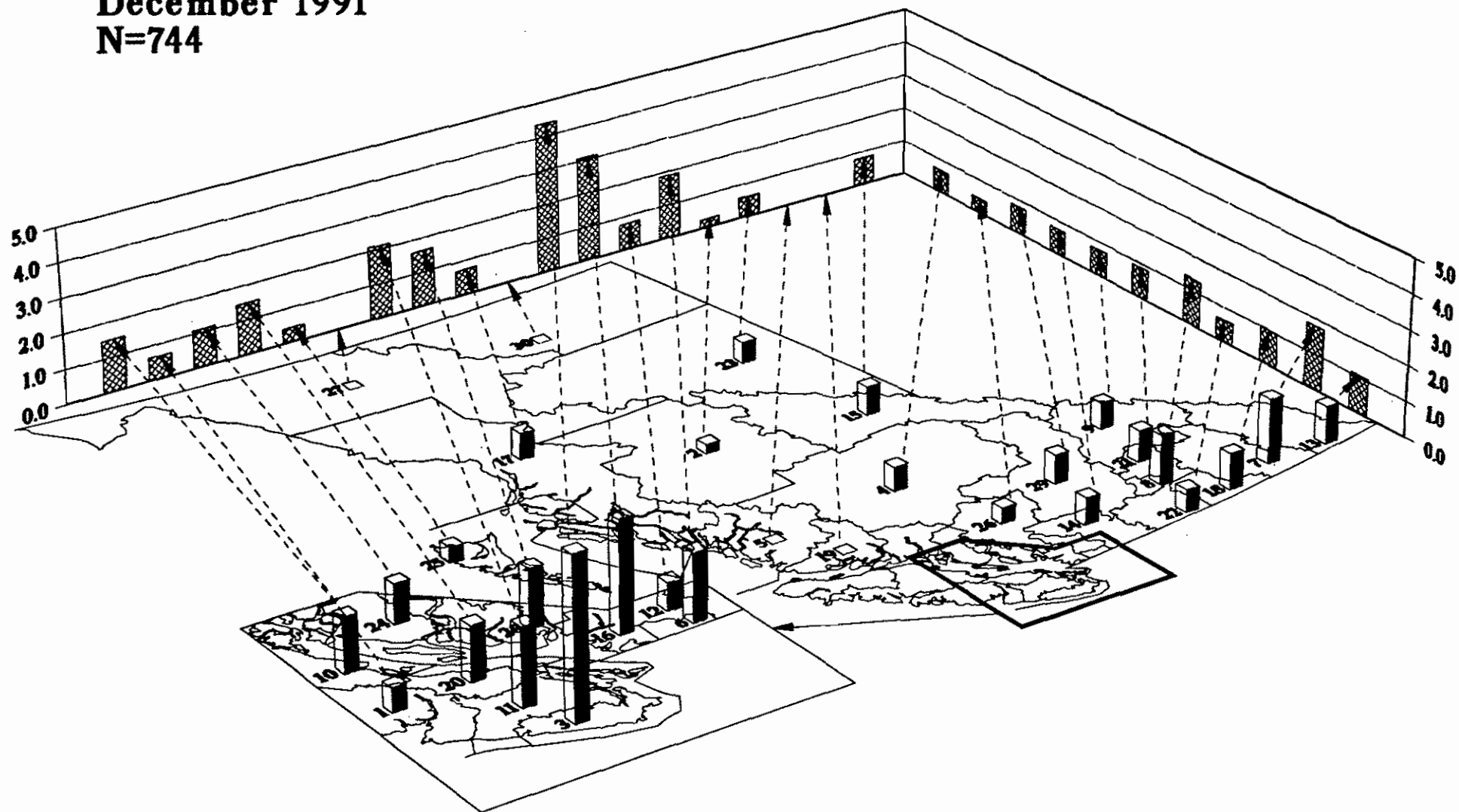


Table 1

Psychologists<sup>1</sup> in British Columbia

## by Regional Hospital District

December 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989	1991	1989 <sup>2</sup>	1991	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>134</b>	<b>144</b>	<b>1.01</b>	<b>1.05</b>	<b>3.66</b>	<b>1.76</b>
1 Alberni-Clayoquot	1	2	0.33	0.66	*	*
2 Bulkley-Nechako	0	1	0.00	0.26	*	*
4 Cariboo	3	4	0.51	0.67	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	15	16	1.96	1.88	3.28	-2.03
7 Central Kootenay	6	9	1.24	1.79	*	*
8 Central Okanagan	15	14	1.53	1.34	-3.39	-6.53
9 Columbia-Shuswap	2	3	0.50	0.75	*	*
10 Comox-Strathcona	12	12	1.57	1.49	0.00	-2.67
11 Cowichan Valley	12	12	2.17	2.11	0.00	-1.41
12 Dewdney-Alouette	6	7	0.73	0.77	*	*
13 East Kootenay	5	5	1.03	1.05	*	*
14 Fraser-Cheam	4	5	0.64	0.75	*	*
15 Fraser-Fort George	8	7	0.93	0.81	*	*
17 Kitimat-Stikine	3	3	0.77	0.74	*	*
18 Kootenay Boundary	3	3	1.01	1.00	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	16	14	1.81	1.49	-6.46	-9.27
21 North Okanagan	5	5	0.89	0.88	*	*
22 Okanagan-Similkameen	1	4	0.16	0.63	*	*
23 Peace River	4	3	0.81	0.61	*	*
24 Powell River	2	2	1.10	1.09	*	*
25 Skeena-Queen Charlotte	1	1	0.44	0.43	*	*
26 Squamish-Lillooet	1	1	0.47	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	3	3	1.68	1.62	*	*
29 Thompson-Nicola	6	8	0.61	0.80	*	*
30 Fort Nelson/Liard	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>574</b>	<b>600</b>	<b>3.32</b>	<b>3.28</b>	<b>2.24</b>	<b>-0.59</b>
3 Capital	119	130	4.20	4.37	4.52	1.95
16 Greater Vancouver	455	470	3.15	3.07	1.63	-1.24
<b>TOTAL</b>	<b>708</b>	<b>744</b>	<b>2.32</b>	<b>2.32</b>	<b>2.51</b>	<b>0.08</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.<sup>3</sup>Rate of change (in percent) in the number.<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

**Psychologists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Age and Sex**  
**December 1991**

Regional Hospital District	25-34		35-44		45-54		55-64		65+		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>18</b>	<b>49</b>	<b>20</b>	<b>19</b>	<b>5</b>	<b>4</b>	<b>1</b>	<b>100</b>	<b>44</b>	<b>144</b>
1 Alberni-Clayoquot	0	0	1	0	0	1	0	0	0	0	1	1	2
2 Bulkley-Nechako	0	0	1	0	0	0	0	0	0	0	1	0	1
4 Cariboo	0	0	0	1	1	0	1	1	0	0	2	2	4
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	1	1	5	3	2	2	2	0	10	6	16
7 Central Kootenay	0	0	3	4	1	0	0	0	1	0	5	4	9
8 Central Okanagan	0	0	2	1	8	1	2	0	0	0	12	2	14
9 Columbia-Shuswap	0	0	0	1	0	0	2	0	0	0	2	1	3
10 Comox-Strathcona	0	0	3	1	2	5	1	0	0	0	6	6	12
11 Cowichan Valley	0	0	3	1	4	3	0	0	1	0	8	4	12
12 Dewdney-Alouette	0	0	1	0	3	0	1	2	0	0	5	2	7
13 East Kootenay	0	0	0	0	3	0	2	0	0	0	5	0	5
14 Fraser-Cheam	0	0	1	0	1	0	2	0	0	1	4	1	5
15 Fraser-Fort George	0	0	3	1	2	1	0	0	0	0	5	2	7
17 Kitimat-Stikine	0	0	1	0	2	0	0	0	0	0	3	0	3
18 Kootenay Boundary	0	0	0	0	2	1	0	0	0	0	2	1	3
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	0	5	2	3	2	2	0	0	0	10	4	14
21 North Okanagan	0	0	1	1	2	1	0	0	0	0	3	2	5
22 Okanagan-Similkameen	0	0	0	1	1	0	2	0	0	0	3	1	4
23 Peace River	0	0	1	1	1	0	0	0	0	0	2	1	3
24 Powell River	0	0	0	0	2	0	0	0	0	0	2	0	2
25 Skeena-Queen Charlotte	0	0	0	0	0	1	0	0	0	0	0	1	1
26 Squamish-Lillooet	0	0	0	0	0	0	1	0	0	0	1	0	1
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	1	1	0	0	0	0	0	2	1	3
29 Thompson-Nicola	0	0	0	1	5	1	1	0	0	0	6	2	8
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>5</b>	<b>9</b>	<b>94</b>	<b>112</b>	<b>154</b>	<b>113</b>	<b>48</b>	<b>40</b>	<b>16</b>	<b>9</b>	<b>317</b>	<b>283</b>	<b>600</b>
3 Capital	0	1	15	24	33	28	11	8	6	4	65	65	130
16 Greater Vancouver	5	8	79	88	121	85	37	32	10	5	252	218	470
<b>TOTAL</b>	<b>5</b>	<b>9</b>	<b>122</b>	<b>130</b>	<b>203</b>	<b>133</b>	<b>67</b>	<b>45</b>	<b>20</b>	<b>10</b>	<b>417</b>	<b>327</b>	<b>744</b>

<sup>1</sup> Definitions are as in the attached text.

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 Health Human Resources Unit  
 The University of British Columbia

Table 3

**Psychologists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**December 1991**

<b>Regional Hospital District</b>	<b>Employed in Psychology</b>	<b>Employed in Other Field</b>	<b>Not Employed</b>	<b>Unknown</b>	<b>Total</b>
<b>Non-Metropolitan - Subtotal</b>	<b>122</b>	<b>7</b>	<b>3</b>	<b>12</b>	<b>144</b>
1 Alberni-Clayoquot	2	0	0	0	2
2 Bulkley-Nechako	1	0	0	0	1
4 Cariboo	4	0	0	0	4
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	15	0	0	1	16
7 Central Kootenay	8	0	0	1	9
8 Central Okanagan	13	0	1	0	14
9 Columbia-Shuswap	3	0	0	0	3
10 Comox-Strathcona	9	1	1	1	12
11 Cowichan Valley	11	1	0	0	12
12 Dewdney-Alouette	3	2	0	2	7
13 East Kootenay	5	0	0	0	5
14 Fraser-Cheam	4	0	0	1	5
15 Fraser-Fort George	4	1	0	2	7
17 Kitimat-Stikine	3	0	0	0	3
18 Kootenay Boundary	2	0	0	1	3
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	12	0	1	1	14
21 North Okanagan	2	1	0	2	5
22 Okanagan-Similkameen	4	0	0	0	4
23 Peace River	2	1	0	0	3
24 Powell River	2	0	0	0	2
25 Skeena-Queen Charlotte	1	0	0	0	1
26 Squamish-Lillooet	1	0	0	0	1
27 Stikine	0	0	0	0	0
28 Sunshine Coast	3	0	0	0	3
29 Thompson-Nicola	8	0	0	0	8
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>503</b>	<b>31</b>	<b>20</b>	<b>46</b>	<b>600</b>
3 Capital	113	4	4	9	130
16 Greater Vancouver	390	27	16	37	470
<b>TOTAL</b>	<b>625</b>	<b>38</b>	<b>23</b>	<b>58</b>	<b>744</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 4

**Psychologists<sup>1</sup> Employed in Psychology in British Columbia**  
**by Regional Hospital District by Primary Work Setting**  
**December 1991**

Regional Hospital District	Educational Facility		Psychiatric Hospital	General Hospital	Physical Medicine/ Rehab. Facility	Mental Health Clinic
	Primary/ Secondary	Post- Secondary				
<b>Non-Metropolitan - Subtotal</b>	<b>19</b>	<b>18</b>	<b>5</b>	<b>3</b>	<b>1</b>	<b>30</b>
1 Alberni-Clayoquot	0	2	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1
4 Cariboo	2	0	0	0	0	2
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	2	1	4	0	0	1
7 Central Kootenay	1	0	0	0	0	2
8 Central Okanagan	3	4	0	1	0	3
9 Columbia-Shuswap	1	0	0	0	0	1
10 Comox-Strathcona	0	2	0	0	0	4
11 Cowichan Valley	3	0	0	1	0	3
12 Dewdney-Alouette	0	0	1	0	0	0
13 East Kootenay	0	2	0	0	0	2
14 Fraser-Cheam	0	0	0	0	0	1
15 Fraser-Fort George	0	0	0	1	0	0
17 Kitimat-Stikine	0	1	0	0	0	2
18 Kootenay Boundary	0	0	0	0	0	1
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	2	2	0	0	0	2
21 North Okanagan	0	0	0	0	0	0
22 Okanagan-Similkameen	1	1	0	0	1	0
23 Peace River	0	1	0	0	0	0
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	2
29 Thompson-Nicola	2	2	0	0	0	1
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>45</b>	<b>101</b>	<b>18</b>	<b>41</b>	<b>20</b>	<b>57</b>
3 Capital	9	20	6	3	2	14
16 Greater Vancouver	36	81	12	38	18	43
<b>TOTAL</b>	<b>64</b>	<b>119</b>	<b>23</b>	<b>44</b>	<b>21</b>	<b>87</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 4  
(Continued)

Psychologists<sup>1</sup> Employed in Psychology in British Columbia  
by Regional Hospital District by Primary Work Setting  
December 1991

Regional Hospital District	Government <sup>2</sup>	Private Practice	Consulting Firm	Other <sup>3</sup>	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>7</b>	<b>27</b>	<b>1</b>	<b>7</b>	<b>4</b>	<b>122</b>
1 Alberni-Clayoquot	0	0	0	0	0	2
2 Bulkley-Nechako	0	0	0	0	0	1
4 Cariboo	0	0	0	0	0	4
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	2	2	0	3	0	15
7 Central Kootenay	0	4	0	1	0	8
8 Central Okanagan	0	2	0	0	0	13
9 Columbia-Shuswap	0	1	0	0	0	3
10 Comox-Strathcona	0	3	0	0	0	9
11 Cowichan Valley	1	2	0	1	0	11
12 Dewdney-Alouette	0	1	0	0	1	3
13 East Kootenay	0	0	0	0	1	5
14 Fraser-Cheam	1	1	1	0	0	4
15 Fraser-Fort George	0	2	0	0	1	4
17 Kitimat-Stikine	0	0	0	0	0	3
18 Kootenay Boundary	0	0	0	1	0	2
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	0	5	0	1	0	12
21 North Okanagan	0	2	0	0	0	2
22 Okanagan-Similkameen	0	1	0	0	0	4
23 Peace River	0	0	0	0	1	2
24 Powell River	0	0	0	0	0	2
25 Skeena-Queen Charlotte	0	0	0	0	0	1
26 Squamish-Lillooet	1	0	0	0	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	3
29 Thompson-Nicola	2	1	0	0	0	8
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>31</b>	<b>99</b>	<b>27</b>	<b>48</b>	<b>16</b>	<b>503</b>
3 Capital	9	26	5	12	7	113
16 Greater Vancouver	22	73	22	36	9	390
<b>TOTAL</b>	<b>38</b>	<b>126</b>	<b>28</b>	<b>55</b>	<b>20</b>	<b>625</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 8 psychologists employed by the federal government, 24 by the provincial government and 6 by municipal governments.

<sup>3</sup>Includes 9 psychologists employed by mental retardation centres, 7 by addiction treatment centres, 10 by correction facilities, 12 by industrial/commercial firms, 8 by social agencies and 9 others.

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Table 5

**Psychologists<sup>1</sup> Employed in Psychology in British Columbia**  
**by Regional Hospital District by Main Psychological Activity**  
**December 1991**

Regional Hospital District	Direct Service	Consulting	Admin- istration	Teaching	Research	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>78</b>	<b>19</b>	<b>8</b>	<b>15</b>	<b>0</b>	<b>2</b>	<b>122</b>
1 Alberni-Clayoquot	1	0	0	1	0	0	2
2 Bulkley-Nechako	1	0	0	0	0	0	1
4 Cariboo	4	0	0	0	0	0	4
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	9	3	1	1	0	1	15
7 Central Kootenay	8	0	0	0	0	0	8
8 Central Okanagan	10	0	0	3	0	0	13
9 Columbia-Shuswap	1	2	0	0	0	0	3
10 Comox-Strathcona	7	1	0	1	0	0	9
11 Cowichan Valley	5	3	2	1	0	0	11
12 Dewdney-Alouette	3	0	0	0	0	0	3
13 East Kootenay	2	1	1	1	0	0	5
14 Fraser-Cheam	2	0	2	0	0	0	4
15 Fraser-Fort George	2	1	0	0	0	1	4
17 Kitimat-Stikine	2	0	0	1	0	0	3
18 Kootenay Boundary	2	0	0	0	0	0	2
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	8	1	0	3	0	0	12
21 North Okanagan	2	0	0	0	0	0	2
22 Okanagan-Similkameen	3	1	0	0	0	0	4
23 Peace River	0	0	1	1	0	0	2
24 Powell River	0	1	1	0	0	0	2
25 Skeena-Queen Charlotte	1	0	0	0	0	0	1
26 Squamish-Lillooet	1	0	0	0	0	0	1
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	2	1	0	0	0	0	3
29 Thompson-Nicola	2	4	0	2	0	0	8
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>330</b>	<b>71</b>	<b>25</b>	<b>58</b>	<b>12</b>	<b>7</b>	<b>503</b>
3 Capital	76	12	10	14	0	1	113
16 Greater Vancouver	254	59	15	44	12	6	390
<b>TOTAL</b>	<b>408</b>	<b>90</b>	<b>33</b>	<b>73</b>	<b>12</b>	<b>9</b>	<b>625</b>

<sup>1</sup>Definitions are as in the attached text.

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 The University of British Columbia



Table 6

Analysis of Change in the Number of Psychologists<sup>1</sup>  
in British Columbia by Regional Hospital District  
December 1989 to December 1991

Regional Hospital District	1989 <sup>3</sup>	New Registrants <sup>2</sup> by Place of Graduation				Total	Re-Act <sup>5</sup>	Attr'n <sup>6</sup>	Migr'n <sup>7</sup>	1991 <sup>8</sup>
		B.C.	O.Can. <sup>4</sup>	U.S.A.	Other					
<b>Non-Metropolitan - Subtotal</b>	<b>134</b>	<b>2</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>7</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>144</b>
1 Alberni-Clayoquot	1	1	0	0	0	1	0	0	0	2
2 Bulkley-Nechako	0	0	1	0	0	1	0	0	0	1
4 Cariboo	3	0	0	1	0	1	0	0	0	4
5 Central Coast	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	15	0	0	0	1	1	0	0	0	16
7 Central Kootenay	6	0	0	0	0	0	1	0	2	9
8 Central Okanagan	15	0	1	0	0	1	0	1	-1	14
9 Columbia-Shuswap	2	0	0	0	0	0	0	0	1	3
10 Comox-Strathcona	12	0	0	0	0	0	0	0	0	12
11 Cowichan Valley	12	0	0	0	0	0	0	0	0	12
12 Dewdney-Alouette	6	0	0	0	0	0	0	0	1	7
13 East Kootenay	5	0	0	0	0	0	0	0	0	5
14 Fraser-Cheam	4	0	0	0	0	0	0	0	1	5
15 Fraser-Fort George	8	1	0	0	0	1	0	0	-2	7
17 Kitimat-Stikine	3	0	0	0	0	0	0	0	0	3
18 Kootenay Boundary	3	0	0	0	0	0	0	0	0	3
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	16	0	0	0	0	0	0	0	-2	14
21 North Okanagan	5	0	0	0	0	0	0	0	0	5
22 Okanagan-Similkameen	1	0	0	0	0	0	0	0	3	4
23 Peace River	4	0	0	0	0	0	0	1	0	3
24 Powell River	2	0	0	0	0	0	0	0	0	2
25 Skeena-Queen Charlotte	1	0	0	0	0	0	0	0	0	1
26 Squamish-Lillooet	1	0	0	0	0	0	0	0	0	1
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	3	0	0	0	0	0	0	0	0	3
29 Thompson-Nicola	6	0	1	0	0	1	0	0	1	8
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>574</b>	<b>14</b>	<b>18</b>	<b>9</b>	<b>1</b>	<b>42</b>	<b>3</b>	<b>15</b>	<b>-4</b>	<b>600</b>
3 Capital	119	3	5	2	0	10	1	2	2	130
16 Greater Vancouver	455	11	13	7	1	32	2	13	-6	470
<b>TOTAL</b>	<b>708</b>	<b>16</b>	<b>21</b>	<b>10</b>	<b>2</b>	<b>49</b>	<b>4</b>	<b>17</b>	<b>0</b>	<b>744</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Psychologists registered in B.C. in December 1991 and who were registered for the first time after December 1989.

<sup>3</sup>Number of psychologists as at December 1989.

<sup>4</sup>Other Canada.

<sup>5</sup>Psychologists registered in B.C. in December 1991 but not in December 1989 and who were registered for the first time before December 1989.

<sup>6</sup>Psychologists registered in B.C. in December 1989 but not in December 1991.

<sup>7</sup>Net effect of intraprovincial migration.

<sup>8</sup>Number of psychologists as at December 1991.

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The University of British Columbia



## SOCIAL WORKERS IN HEALTH CARE

## SOCIAL WORKERS IN HEALTH CARE

- Definition:** A social worker
- provides services to enhance the social functioning of individuals, families, groups and communities by assessing social problems and facilitating their remediation and prevention. These services include:
- (a) direct counselling within established relationships with clients;
  - (b) the development, promotion and delivery of human service programs, in collaboration or consultation with other professionals where required;
  - (c) the development and promotion of social policies to improve social conditions and advance social equality; and
  - (d) other activities consistent with the objectives outlined or implicit in the above.<sup>1</sup>
- Governing Statute:** None.
- Governing Body:** None. In British Columbia, social workers may register with the Board of Registration for Social Workers, as indicated by the Social Workers Act (RS Chapter 389, Revised 1989). Registered members have exclusive use of the titles: *Registered Social Worker* or *RSW*.
- Date of Record:** February 1992.
- Source of Data:** Health Human Resources Unit (HHRU) surveys.

**Preparation and Updating:**

A list of individuals employed in social work-related positions in health care settings was compiled with the assistance of the British Columbia Ministry of Health, the Hospital Social Work Directors' Society of British Columbia, Regional Offices of Alcohol and Drug Programs, Greater Vancouver Mental Health Services and the Board of Registration for Social Workers of the Province of British Columbia. The HHRU drew a population from the list which included social workers, social program officers, counsellors, and therapists employed in the public service, hospitals, health facilities, agencies, private practice and other health care-related institutions in British Columbia. A questionnaire was sent to this target population to collect information about education, employment, and professional affiliations.

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<sup>1</sup>Adapted from information provided by the Board of Registration for Social Workers of the Province of British Columbia.

The tables include only those individuals employed in social work-related positions in British Columbia who returned completed questionnaires and who were not excluded from the final sample because their reported work setting or job description could not be defined as *social work in a health care setting*.

Comparison with 1989 figures is of limited value and has not been presented.

## **Definition of Terms:**

### **Social Workers in Health Care Settings**

The following tables include individuals employed in social work-related positions in the public service, hospitals, treatment centres, other agencies and private practice whose work was deemed to have an impact on the health care system in British Columbia.

#### **1. Age and Sex**

Age and sex information on respondents to the 1991 questionnaire is reported in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

#### **2. Employment Status**

Employment status as reported by respondents to the 1991 survey is shown in Table 3. The categories used in the table include:

- (a) Full-time social work position;
- (b) Part-time social work position;
- (c) Auxiliary social work position;
- (d) Employed in other field.

#### **3. Principal Type of Employing Institution**

Type of principal employing institution as reported by respondents to the 1991 questionnaire is shown in Table 4. The categories used in the table include:

- (a) Diagnosis/Treatment Centre;
- (b) Acute Care/General Hospital;
- (c) Drug and Alcohol/Substance Abuse Program/Facility;
- (d) Extended/Long Term Care Institution;
- (e) Facility for the Mentally/Developmentally Handicapped;
- (f) Hospital Psychiatric Facility;
- (g) Community-based Psychiatric Facility (eg. Group Homes);
- (h) Physically Disabled/Rehabilitation Facility;
- (i) Private Practice;
- (j) Other.

**4. Area of Service**

Principal service group as reported by respondents to the 1991 questionnaire is shown in Table 5. The categories used in the table include:

- (a) Addictions Counselling;
- (b) Children/Family;
- (c) Geriatric;
- (d) Mentally/Developmentally Handicapped;
- (e) Rehabilitation/Physically Disabled;
- (f) Adult;
- (g) Education/Evaluative/Research;
- (h) Management/Administration;
- (j) Psychiatric;
- (k) Other.

**5. Type of Position**

Principal type of position as reported by respondents to the 1991 questionnaire is shown in Table 6. The categories used in the table include:

- (a) Social Worker;
- (b) Administrator/Clinical Practitioner;
- (c) Manager/Director/Supervisor/Administrator (only);
- (d) Sole Charge Practitioner;
- (e) Counsellor/Therapist;
- (f) Mental Health Worker;
- (g) Other;
- (h) No Response.

Table 1

Social Workers (Respondents)<sup>1</sup> in British Columbia

## by Regional Hospital District

February 1992

Regional Hospital District	Number	Number per 10,000 Population
<b>Non-Metropolitan - Subtotal</b>	<b>234</b>	<b>1.70</b>
1 Alberni-Clayoquot	2	0.66
2 Bulkley-Nechako	3	0.79
4 Cariboo	10	1.68
5 Central Coast	0	0.00
6 Central Fraser Valley	13	1.53
7 Central Kootenay	15	2.99
8 Central Okanagan	26	2.49
9 Columbia-Shuswap	4	1.00
10 Comox-Strathcona	10	1.24
11 Cowichan Valley	3	0.53
12 Dewdney-Alouette	15	1.65
13 East Kootenay	7	1.48
14 Fraser-Cheam	7	1.06
15 Fraser-Fort George	21	2.42
17 Kitimat-Stikine	5	1.23
18 Kootenay Boundary	8	2.67
19 Mount Waddington	0	0.00
20 Nanaimo	26	2.77
21 North Okanagan	12	2.10
22 Okanagan-Similkameen	12	1.89
23 Peace River	8	1.63
24 Powell River	2	1.09
25 Skeena-Queen Charlotte	2	0.86
26 Squamish-Lillooet	0	0.00
27 Stikine	2	13.12
28 Sunshine Coast	6	3.25
29 Thompson-Nicola	15	1.50
30 Fort Nelson/Liard	0	0.00
<b>Metropolitan - Subtotal</b>	<b>533</b>	<b>2.92</b>
3 Capital	95	3.19
16 Greater Vancouver	438	2.86
<b>TOTAL</b>	<b>767</b>	<b>2.39</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 2

Social Workers (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

February 1992

Regional Hospital District	Under 25		25 - 34		35 - 44		45 - 54		55 - 64		65+		Subtotal		Unkn <sup>2</sup>	Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F		
Non-Metropolitan - Subtotal	0	4	8	14	32	51	33	29	10	16	1	0	84	114	36	234
1 Alberni-Clayoquot	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	2
2 Bulkley-Nechako	0	0	0	1	0	1	0	0	0	1	0	0	0	3	0	3
4 Cariboo	0	0	1	1	1	2	1	2	0	1	1	0	4	6	0	10
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	1	0	1	1	0	0	4	1	1	0	0	2	7	4	13
7 Central Kootenay	0	0	1	0	1	8	1	2	1	1	0	0	4	11	0	15
8 Central Okanagan	0	0	1	3	6	4	5	2	1	1	0	0	13	10	3	26
9 Columbia-Shuswap	0	0	0	0	1	1	0	1	0	0	0	0	1	2	1	4
10 Comox-Strathcona	0	0	1	0	2	1	2	0	0	1	0	0	5	2	3	10
11 Cowichan Valley	0	0	0	0	0	0	0	2	0	0	0	0	0	2	1	3
12 Dewdney-Alouette	0	1	1	1	1	3	2	0	2	3	0	0	6	8	1	15
13 East Kootenay	0	1	0	0	1	0	3	2	0	0	0	0	4	3	0	7
14 Fraser-Cheam	0	0	0	0	2	2	2	1	0	0	0	0	4	3	0	7
15 Fraser-Fort George	0	0	1	2	3	7	1	0	2	1	0	0	7	10	4	21
17 Kitimat-Stikine	0	0	0	1	1	1	0	0	0	0	0	0	1	2	2	5
18 Kootenay Boundary	0	0	0	0	0	2	1	2	1	2	0	0	2	6	0	8
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	0	1	1	3	10	1	5	1	0	0	0	6	16	4	26
21 North Okanagan	0	0	0	0	0	1	4	1	0	1	0	0	4	3	5	12
22 Okanagan-Similkameen	0	0	0	0	2	1	4	0	0	1	0	0	6	2	4	12
23 Peace River	0	0	0	1	2	1	1	0	0	2	0	0	3	4	1	8
24 Powell River	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	2
25 Skeena-Queen Charlotte	0	1	0	1	0	0	0	0	0	0	0	0	0	2	0	2
26 Squamish-Lillooet	0	0	0	0	1	1	0	0	0	0	0	0	1	1	0	2
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	1	1	1	3	0	0	0	0	2	4	0	6
29 Thompson-Nicola	0	0	1	1	3	4	2	2	1	0	0	0	7	7	1	15
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Metropolitan - Subtotal	0	3	15	72	56	128	47	110	11	23	1	3	130	339	64	533
3 Capital	0	2	1	8	7	21	11	25	1	2	0	1	20	59	16	95
16 Greater Vancouver	0	1	14	64	49	107	36	85	10	21	1	2	110	280	48	438
<b>TOTAL</b>	<b>0</b>	<b>7</b>	<b>23</b>	<b>86</b>	<b>88</b>	<b>179</b>	<b>80</b>	<b>139</b>	<b>21</b>	<b>39</b>	<b>2</b>	<b>3</b>	<b>214</b>	<b>453</b>	<b>100</b>	<b>767</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Unknown.

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Table 3

Social Workers (Respondents)<sup>1</sup> in British Columbia

## by Regional Hospital District by Employment Status

February 1992

Regional Hospital District	Full-time	Part-time	Auxiliary	Employed in Other Field	Total
<b>Non-Metropolitan - Subtotal</b>	<b>176</b>	<b>44</b>	<b>4</b>	<b>10</b>	<b>234</b>
1 Alberni-Clayoquot	1	1	0	0	2
2 Bulkley-Nechako	1	0	0	2	3
4 Cariboo	6	3	0	1	10
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	9	4	0	0	13
7 Central Kootenay	11	4	0	0	15
8 Central Okanagan	19	5	2	0	26
9 Columbia-Shuswap	4	0	0	0	4
10 Comox-Strathcona	10	0	0	0	10
11 Cowichan Valley	2	0	1	0	3
12 Dewdney-Alouette	9	6	0	0	15
13 East Kootenay	7	0	0	0	7
14 Fraser-Cheam	6	1	0	0	7
15 Fraser-Fort George	17	3	0	1	21
17 Kitimat-Stikine	5	0	0	0	5
18 Kootenay Boundary	6	1	0	1	8
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	17	8	0	1	26
21 North Okanagan	11	1	0	0	12
22 Okanagan-Similkameen	8	2	0	2	12
23 Peace River	7	0	0	1	8
24 Powell River	2	0	0	0	2
25 Skeena-Queen Charlotte	2	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0
27 Stikine	1	1	0	0	2
28 Sunshine Coast	2	2	1	1	6
29 Thompson-Nicola	13	2	0	0	15
30 Fort Nelson/Liard	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>389</b>	<b>106</b>	<b>18</b>	<b>20</b>	<b>533</b>
3 Capital	70	14	8	3	95
16 Greater Vancouver	319	92	10	17	438
<b>TOTAL</b>	<b>565</b>	<b>150</b>	<b>22</b>	<b>30</b>	<b>767</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 4

Social Workers (Respondents)<sup>1</sup> in British Columbia  
by Regional Hospital District by Principal Employing Institution  
February 1992

Regional Hospital District	Diag/ Treatment Centre	Acute Care	Drug & Alcohol	Extended/ LTC Institution	Facility for Handi- capped <sup>2</sup>	Hospital Psych. Facility	Comm. Based Psych.	Physically Disabled/ Rehab.	Private Practice	Other	No Response	Total
Non-Metropolitan - Subtotal	32	51	80	9	20	9	4	1	14	9	5	234
1 Alberni-Clayoquot	0	0	2	0	0	0	0	0	0	0	0	2
2 Bulkley-Nechako	0	0	2	0	0	0	0	0	0	0	1	3
4 Cariboo	2	1	5	0	1	0	0	0	1	0	0	10
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	1	4	4	1	1	1	1	0	0	0	0	13
7 Central Kootenay	2	2	5	0	1	2	0	0	0	3	0	15
8 Central Okanagan	5	6	9	3	0	1	0	0	2	0	0	26
9 Columbia-Shuswap	2	0	1	0	1	0	0	0	0	0	0	4
10 Comox-Strathcona	3	1	3	0	0	0	0	0	1	1	1	10
11 Cowichan Valley	0	2	0	1	0	0	0	0	0	0	0	3
12 Dewdney-Alouette	2	4	5	0	2	1	0	0	1	0	0	15
13 East Kootenay	1	2	3	0	1	0	0	0	0	0	0	7
14 Fraser-Cheam	2	2	0	1	0	2	0	0	0	0	0	7
15 Fraser-Fort George	2	3	9	0	2	0	1	0	2	2	0	21
17 Kitimat-Stikine	1	2	2	0	0	0	0	0	0	0	0	5
18 Kootenay Boundary	1	2	3	1	1	0	0	0	0	0	0	8
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	4	5	8	1	2	1	0	1	2	2	0	26
21 North Okanagan	0	5	3	1	3	0	0	0	0	0	0	12
22 Okanagan-Similkameen	1	4	2	0	2	0	0	0	1	0	2	12
23 Peace River	0	0	5	0	1	0	0	0	0	1	1	8
24 Powell River	0	0	1	0	0	0	1	0	0	0	0	2
25 Skeena-Queen Charlotte	0	0	2	0	0	0	0	0	0	0	0	2
26 Squamish-Lillooet	0	0	1	0	0	0	0	0	1	0	0	2
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	2	0	1	0	0	0	2	0	0	6
29 Thompson-Nicola	2	6	3	0	1	1	1	0	1	0	0	15
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0
Metropolitan - Subtotal	85	160	53	39	30	50	37	32	16	22	9	533
3 Capital	12	24	4	16	6	8	3	8	4	10	0	95
16 Greater Vancouver	73	136	49	23	24	42	34	24	12	12	9	438
<b>TOTAL</b>	<b>117</b>	<b>211</b>	<b>133</b>	<b>48</b>	<b>50</b>	<b>59</b>	<b>41</b>	<b>33</b>	<b>30</b>	<b>31</b>	<b>14</b>	<b>767</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Facility for the Mentally/Developmentally Handicapped.

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Table 5

Social Workers (Respondents)<sup>1</sup> in British Columbia

## by Regional Hospital District by Service Group

February 1992

Regional Hospital District	Psychiatric	Addictions Counselling	Geriatric	Children/ Family	Adult	Rehab/ Physically Disabled	Manage/ Admin.	Mentally/ Develop. Handi- capped	Other <sup>2</sup>	No Response	Total
<b>Non-Metropolitan - Subtotal</b>	<b>40</b>	<b>85</b>	<b>25</b>	<b>25</b>	<b>24</b>	<b>2</b>	<b>8</b>	<b>3</b>	<b>15</b>	<b>7</b>	<b>234</b>
1 Alberni-Clayoquot	0	2	0	0	0	0	0	0	0	0	2
2 Bulkley-Nechako	0	2	0	0	0	0	0	0	0	1	3
4 Cariboo	2	5	0	1	2	0	0	0	0	0	10
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	4	4	2	0	2	0	1	0	0	0	13
7 Central Kootenay	4	5	1	2	3	0	0	0	0	0	15
8 Central Okanagan	2	11	5	1	2	1	0	0	3	1	26
9 Columbia-Shuswap	2	1	0	1	0	0	0	0	0	0	4
10 Comox-Strathcona	0	3	2	1	0	0	0	1	2	1	10
11 Cowichan Valley	0	0	1	1	1	0	0	0	0	0	3
12 Dewdney-Alouette	1	6	2	2	0	0	1	1	2	0	15
13 East Kootenay	2	3	0	1	1	0	0	0	0	0	7
14 Fraser-Cheam	3	0	2	1	1	0	0	0	0	0	7
15 Fraser-Fort George	4	9	0	3	1	0	2	0	2	0	21
17 Kitimat-Stikine	0	2	0	1	1	0	0	0	1	0	5
18 Kootenay Boundary	1	3	2	0	1	0	0	0	1	0	8
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	4	9	3	4	1	0	1	0	3	1	26
21 North Okanagan	3	3	2	0	3	0	0	0	0	1	12
22 Okanagan-Similkameen	3	3	1	1	2	0	1	0	0	1	12
23 Peace River	0	5	0	1	0	0	0	1	0	1	8
24 Powell River	1	1	0	0	0	0	0	0	0	0	2
25 Skeena-Queen Charlotte	0	2	0	0	0	0	0	0	0	0	2
26 Squamish-Lillooet	0	1	0	1	0	0	0	0	0	0	2
27 Stikine	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	2	1	1	2	0	0	0	0	0	6
29 Thompson-Nicola	4	3	1	2	1	1	2	0	1	0	15
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>110</b>	<b>53</b>	<b>98</b>	<b>97</b>	<b>65</b>	<b>32</b>	<b>18</b>	<b>12</b>	<b>39</b>	<b>9</b>	<b>533</b>
3 Capital	8	4	26	22	17	4	6	6	2	0	95
16 Greater Vancouver	102	49	72	75	48	28	12	6	37	9	438
<b>TOTAL</b>	<b>150</b>	<b>138</b>	<b>123</b>	<b>122</b>	<b>89</b>	<b>34</b>	<b>26</b>	<b>15</b>	<b>54</b>	<b>16</b>	<b>767</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 4 social workers employed in education/evaluation/research.

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Table 6

Social Workers (Respondents)<sup>1</sup> in British Columbia

by Regional Hospital District by Type of Position

February 1992

Regional Hospital District	Social Worker	Admin/ Clinical Practitioner	Manager/ Director/ Supervisor	Sole Charge Practitioner	Counsellor/ Therapist	Mental Health Worker	Other <sup>2</sup>	No Response	Total
<b>Non-Metropolitan - Subtotal</b>	<b>106</b>	<b>46</b>	<b>16</b>	<b>12</b>	<b>42</b>	<b>0</b>	<b>7</b>	<b>5</b>	<b>234</b>
1 Alberni-Clayoquot	0	0	0	0	2	0	0	0	2
2 Bulkley-Nechako	1	0	1	0	0	0	0	1	3
4 Cariboo	1	5	0	1	3	0	0	0	10
5 Central Coast	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	8	2	1	0	2	0	0	0	13
7 Central Kootenay	5	4	0	1	4	0	1	0	15
8 Central Okanagan	13	5	1	0	6	0	1	0	26
9 Columbia-Shuswap	1	0	1	1	1	0	0	0	4
10 Comox-Strathcona	5	0	1	1	2	0	0	1	10
11 Cowichan Valley	3	0	0	0	0	0	0	0	3
12 Dewdney-Alouette	9	2	1	1	2	0	0	0	15
13 East Kootenay	3	3	0	0	1	0	0	0	7
14 Fraser-Cheam	4	1	1	0	0	0	1	0	7
15 Fraser-Fort George	9	2	5	1	4	0	0	0	21
17 Kitimat-Stikine	2	1	0	1	1	0	0	0	5
18 Kootenay Boundary	4	1	0	0	2	0	1	0	8
19 Mount Waddington	0	0	0	0	0	0	0	0	0
20 Nanaimo	13	4	1	2	3	0	2	1	26
21 North Okanagan	8	2	2	0	0	0	0	0	12
22 Okanagan-Similkameen	3	3	0	2	2	0	1	1	12
23 Peace River	2	1	0	1	3	0	0	1	8
24 Powell River	0	1	0	0	1	0	0	0	2
25 Skeena-Queen Charlotte	2	0	0	0	0	0	0	0	2
26 Squamish-Lillooet	1	1	0	0	0	0	0	0	2
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	3	1	0	0	2	0	0	0	6
29 Thompson-Nicola	6	7	1	0	1	0	0	0	15
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>317</b>	<b>54</b>	<b>55</b>	<b>13</b>	<b>47</b>	<b>11</b>	<b>21</b>	<b>15</b>	<b>533</b>
3 Capital	61	9	13	2	5	0	4	1	95
16 Greater Vancouver	256	45	42	11	42	11	17	14	438
<b>TOTAL</b>	<b>423</b>	<b>100</b>	<b>71</b>	<b>25</b>	<b>89</b>	<b>11</b>	<b>28</b>	<b>20</b>	<b>767</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 3 social workers employed as long term care assessors.

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## **IX. REHABILITATION SERVICES**



**AUDIOLOGISTS AND SPEECH/LANGUAGE  
PATHOLOGISTS**

## AUDIOLOGISTS AND SPEECH/LANGUAGE PATHOLOGISTS

**Definition:** (a) An audiologist

"provides diagnostic evaluation and rehabilitative services and conducts research related to hearing. Administers air and bone conduction and other audiometric tests and examinations to determine hearing efficiency. Co-ordinates audiometric results with medical, social, behavioural and other diagnostic data. Evaluates total response pattern and acoustic tests to differentiate between organic and non-organic hearing loss. Plans, directs and participates in counselling, speech-reading and other rehabilitation programs. Acts as consultant to educational, medical and other professional groups. Conducts research in physiology, pathology, biophysics and psychophysics of auditory system, if required. Designs and develops clinical and research procedures and materials/equipment, if required."<sup>1</sup>

(b) A speech pathologist

"diagnoses and treats speech, language and voice disorders, and performs related research: Administers tests and observes patient to diagnose nature of disorder and to evaluate degree of impairment. Plans and conducts remedial programs to correct stuttering, abnormal articulation and other disorders. Provides therapy for patients with communication problems caused by cerebral palsy, surgical removal of larynx, stroke, hearing deficiencies or other impairments. Plans individual or group therapy in rehabilitation of communication disorders. Counsels and guides language-handicapped individuals and their families, teachers or employers. Acts as consultant to educational, medical, dental and other professional groups. Conducts research related to development of diagnostic and treatment techniques and procedures, or design of diagnostic/treatment materials/equipment."<sup>2</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the British Columbia Association of Speech/Language Pathologists and Audiologists is voluntary. However, registered members have exclusive use of the titles: *Registered Speech/Language Pathologist, Registered Speech/Language Therapist, Speech Therapist, Voice Therapist, Communication Disorder Specialist, Audiologist*.

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<sup>1</sup>Adapted by the British Columbia Association of Speech/Language Pathologists and Audiologists from the *Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3137-110, p. 55, Ottawa: Employment and Immigration Canada.

<sup>2</sup>Ibid., No. 3137-114, p. 55.



**Date of Record:** September 1989 and December 1991.

**Source of Data:** British Columbia Association of Speech/Language Pathologists and Audiologists (BCASLPA).

**Preparation and Updating:**

The tables, derived solely from the membership list supplied by the BCASLPA, include *Full* and *Life* Members with a British Columbia address at the date of record.

**Definition of Terms:**

*Full* members are audiologists and speech/language pathologists in good standing whose number of credit hours in designated areas of study correspond to the criteria specified by the BCASLPA bylaws and who may or may not be employed in the field.

*Life* members are full members who have been recognized for long term employment in audiology and/or speech/language pathology and who may or may not be employed in the field. They must be sixty years of age or older and have held full membership with the BCASLPA for ten years or more.<sup>3</sup>

**1. Area of Training**

Table 2 reports audiologists and speech/language pathologists by their area of training as reported on their registration renewal form.

**2. Type of Employing Institution**

Table 3 displays type of principal employing institution as reported on the registration renewal form. The following categories are used:

- (a) School Districts;
- (b) Health Institutions (including Hospitals, Rehabilitation Centres and Health Clinics);
- (c) Private Practice;
- (d) Other.

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<sup>3</sup>From information provided by the British Columbia Association of Speech/Language Pathologists and Audiologists.

**Audiologists and Speech/Language Pathologists (Members)  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=372**

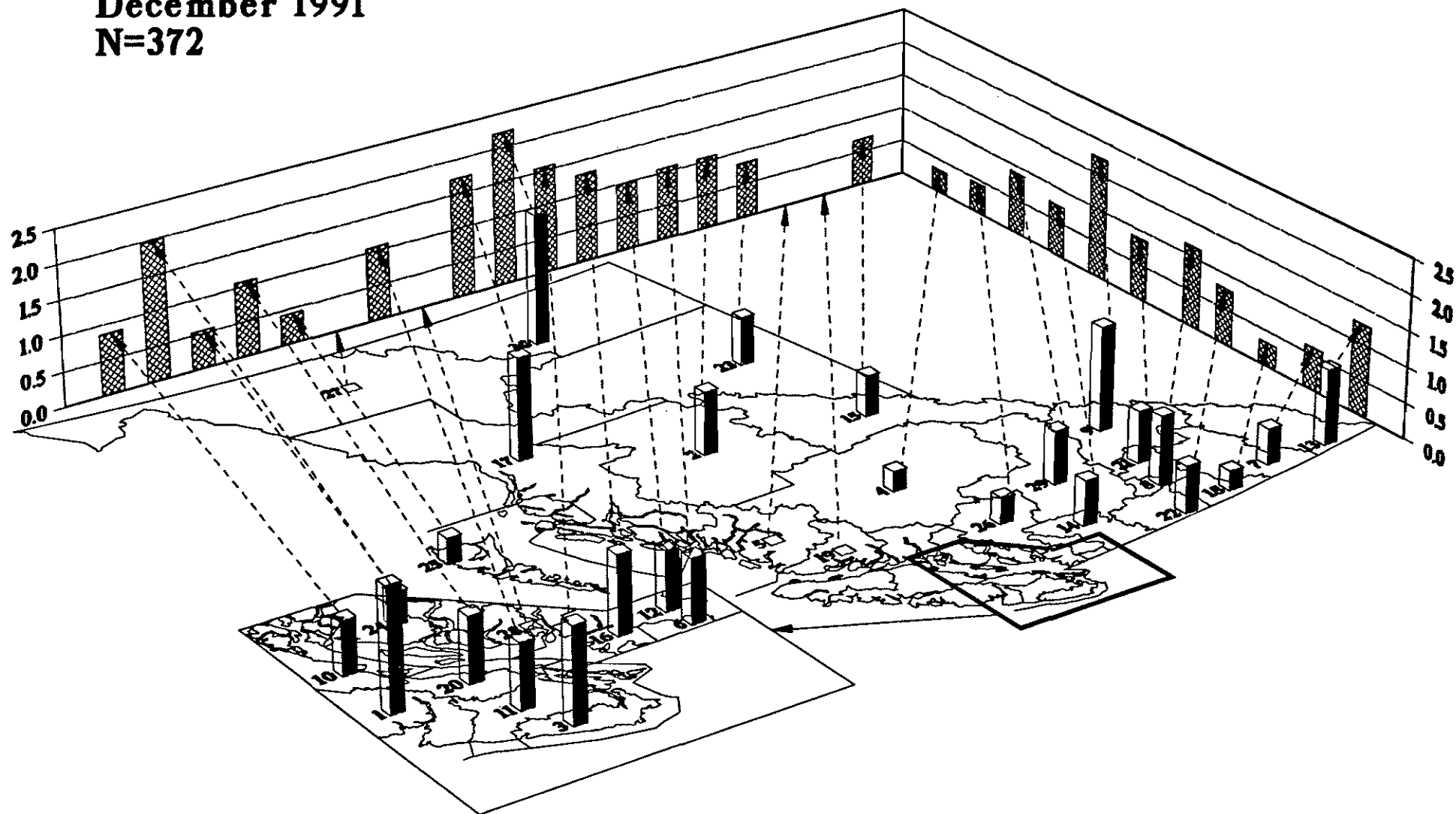


Table 1

Audiologists and Speech/Language Pathologists (Members)<sup>1</sup>

in British Columbia by Regional Hospital District

September 1989 and December 1991

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989 <sup>2</sup>	1991	1989 <sup>3</sup>	1991	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>105</b>	<b>127</b>	<b>0.79</b>	<b>0.92</b>	<b>8.82</b>	<b>7.05</b>
1 Alberni-Clayoquot	3	6	1.00	1.98	*	*
2 Bulkley-Nechako	4	4	1.08	1.06	*	*
4 Cariboo	2	2	0.34	0.34	*	*
5 Central Coast	1	0	3.13	0.00	*	*
6 Central Fraser Valley	9	9	1.18	1.06	*	*
7 Central Kootenay	5	3	1.03	0.60	*	*
8 Central Okanagan	7	12	0.72	1.15	*	*
9 Columbia-Shuswap	5	7	1.26	1.75	*	*
10 Comox-Strathcona	5	7	0.65	0.87	*	*
11 Cowichan Valley	4	6	0.72	1.06	*	*
12 Dewdney-Alouette	5	9	0.61	0.99	*	*
13 East Kootenay	4	6	0.82	1.27	*	*
14 Fraser-Cheam	3	5	0.48	0.75	*	*
15 Fraser-Fort George	8	6	0.93	0.69	*	*
17 Kitimat-Stikine	5	7	1.28	1.73	*	*
18 Kootenay Boundary	1	1	0.34	0.33	*	*
19 Mount Waddington	0	0	0.00	0.00	*	*
20 Nanaimo	9	10	1.02	1.07	*	*
21 North Okanagan	6	5	1.07	0.88	*	*
22 Okanagan-Similkameen	3	5	0.48	0.79	*	*
23 Peace River	5	4	1.01	0.82	*	*
24 Powell River	1	1	0.55	0.54	*	*
25 Skeena-Queen Charlotte	1	1	0.44	0.43	*	*
26 Squamish-Lillooet	1	1	0.47	0.44	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	1	0	0.56	0.00	*	*
29 Thompson-Nicola	7	9	0.71	0.90	*	*
30 Fort Nelson/Liard	0	1	0.00	2.22	*	*
<b>Metropolitan - Subtotal</b>	<b>240</b>	<b>245</b>	<b>1.39</b>	<b>1.34</b>	<b>0.92</b>	<b>-1.57</b>
3 Capital	42	46	1.48	1.55	4.13	1.85
16 Greater Vancouver	198	199	1.37	1.30	0.22	-2.30
<b>TOTAL</b>	<b>345</b>	<b>372</b>	<b>1.13</b>	<b>1.16</b>	<b>3.41</b>	<b>1.23</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes five Life members who were excluded from the corresponding figures for 1989 appearing in ROLLCALL 89.<sup>3</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89. See Foreword and footnote 2 above.<sup>4</sup>Rate of change (in percent) in the number.<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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The University of British Columbia

Table 2

Audiologists and Speech/Language Pathologists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Area of Training

December 1991

Regional Hospital District	Audiology	Speech/ Language Pathology <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>8</b>	<b>119</b>	<b>127</b>
1 Alberni-Clayoquot	1	5	6
2 Bulkley-Nechako	0	4	4
4 Cariboo	0	2	2
5 Central Coast	0	0	0
6 Central Fraser Valley	2	7	9
7 Central Kootenay	0	3	3
8 Central Okanagan	1	11	12
9 Columbia-Shuswap	0	7	7
10 Comox-Strathcona	0	7	7
11 Cowichan Valley	0	6	6
12 Dewdney-Alouette	0	9	9
13 East Kootenay	0	6	6
14 Fraser-Cheam	1	4	5
15 Fraser-Fort George	0	6	6
17 Kitimat-Stikine	1	6	7
18 Kootenay Boundary	0	1	1
19 Mount Waddington	0	0	0
20 Nanaimo	0	10	10
21 North Okanagan	0	5	5
22 Okanagan-Similkameen	2	3	5
23 Peace River	0	4	4
24 Powell River	0	1	1
25 Skeena-Queen Charlotte	0	1	1
26 Squamish-Lillooet	0	1	1
27 Stikine	0	0	0
28 Sunshine Coast	0	0	0
29 Thompson-Nicola	0	9	9
30 Fort Nelson/Liard	0	1	1
<b>Metropolitan - Subtotal</b>	<b>32</b>	<b>213</b>	<b>245</b>
3 Capital	5	41	46
16 Greater Vancouver	27	172	199
<b>TOTAL</b>	<b>40</b>	<b>332</b>	<b>372</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 1 member who has completed training in both Audiology and Speech Language Pathology.

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Table 3

Audiologists and Speech/Language Pathologists (Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Employment Setting

December 1991

Regional Hospital District	School Districts	Health Institutions <sup>2</sup>	Private Practice	Other <sup>3</sup>	Not Applicable <sup>4</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>72</b>	<b>27</b>	<b>14</b>	<b>5</b>	<b>9</b>	<b>127</b>
1 Alberni-Clayoquot	4	0	1	0	1	6
2 Bulkley-Nechako	2	0	0	0	2	4
4 Cariboo	2	0	0	0	0	2
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	4	0	3	1	1	9
7 Central Kootenay	2	0	0	0	1	3
8 Central Okanagan	7	4	1	0	0	12
9 Columbia-Shuswap	5	0	1	0	1	7
10 Comox-Strathcona	6	1	0	0	0	7
11 Cowichan Valley	4	1	0	1	0	6
12 Dewdney-Alouette	4	2	2	1	0	9
13 East Kootenay	4	1	1	0	0	6
14 Fraser-Cheam	2	2	0	1	0	5
15 Fraser-Fort George	6	0	0	0	0	6
17 Kitimat-Stikine	1	6	0	0	0	7
18 Kootenay Boundary	0	1	0	0	0	1
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	6	3	1	0	0	10
21 North Okanagan	1	1	3	0	0	5
22 Okanagan-Similkameen	1	2	1	0	1	5
23 Peace River	2	2	0	0	0	4
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	1	1
26 Squamish-Lillooet	1	0	0	0	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0
29 Thompson-Nicola	6	1	0	1	1	9
30 Fort Nelson/Liard	1	0	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>79</b>	<b>83</b>	<b>30</b>	<b>34</b>	<b>19</b>	<b>245</b>
3 Capital	21	16	2	4	3	46
16 Greater Vancouver	58	67	28	30	16	199
<b>TOTAL</b>	<b>151</b>	<b>110</b>	<b>44</b>	<b>39</b>	<b>28</b>	<b>372</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes hospitals, rehabilitation centres and health clinics.<sup>3</sup>Includes U.B.C., Ministry of Health, Ministry of Education and members employed in more than one setting.<sup>4</sup>Includes members who are not employed or who have an unknown employment setting.

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## MASSAGE PRACTITIONERS





## MESSAGE PRACTITIONERS

<b>Definition:</b>	<p>A massage practitioner</p> <p>may register under Part 3 of the Physiotherapists' Act upon completion of an approved course of study comprised of a curriculum of theory and practice, primarily consisting of the subjects of anatomy, physiology, massage and hydrotherapy, and after passing the examination set by the Board of Physiotherapists and Massage Practitioners.<sup>1</sup></p>
<b>Governing Statute:</b>	<p>Physiotherapists' Act, Revised Statutes of British Columbia, 1979, Chapter 327; Health Professions Amendment Act, 1989, Chapter 29, Sections 9-16.</p>
<b>Governing Body:</b>	<p>Association of Physiotherapists and Massage Practitioners of British Columbia (APMPBC). In order to practise as a massage practitioner in British Columbia, it is necessary to be registered by the Association of Physiotherapists and Massage Practitioners of British Columbia.</p>
<b>Date of Record:</b>	<p>December 1989 and December 1991.</p>
<b>Source of Data:</b>	<p>Association of Physiotherapists and Massage Practitioners of British Columbia (APMPBC).</p>
<b>Preparation and Updating:</b>	<p>The tables, prepared from registration data maintained by the APMPBC, include massage practitioners who were full members of the APMPBC and residents of British Columbia at the date of record.</p>

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<sup>1</sup>Physiotherapists Act, Revised Statutes of British Columbia, 1979, Chapter 327.

**Definition of Terms:****1. Employment Status**

Employment status as reported on the registration renewal form is shown in Table 1. The following categories are used:

- (a) Employed as a massage practitioner (MP);
- (b) Employed in physiotherapy or occupational therapy (PT/OT);
- (c) Employed in fields other than MP, PT or OT;
- (d) Not employed;
- (e) Unknown.

**2. Age and Sex**

Age and sex information on massage practitioners, derived from the registration database of the APMPBC, is shown in Table 2. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

**3. Type of Employing Institution**

Table 4 displays type of principal employing institution as reported on the registration renewal form. The registration form lists the following categories for principal employing institution:

- (a) Acute Care Hospital;
- (b) Workers' Compensation Board;
- (c) Children's Hospital;
- (d) Community Health Centre
- (e) Non-Profit Agency;
- (f) Diagnostic and Treatment Centre;
- (g) Centre for Mentally Handicapped;
- (h) Continuing Care;
- (i) Extended Care;
- (j) Psychiatric Hospital;
- (k) Rehabilitation Hospital;
- (l) School Board;
- (m) University or College;
- (n) Industry;
- (o) Private Practice;
- (p) Other.

In 1991, no massage practitioners indicated employment with any of the following institutions: acute care hospitals, Workers' Compensation Board, Children's Hospital, non-profit agencies, diagnostic and treatment centres, centres for the mentally handicapped, continuing care, extended care, school boards.

#### 4. Patient Care Activity

Principal patient care activity as reported on the registration renewal form is shown in Table 5. The categories used on the renewal form include:

- (a) Intensive Care;
- (b) Orthopaedics;
- (c) Rheumatology;
- (d) General;
- (e) Sports Medicine;
- (f) Geriatrics;
- (g) Paediatrics;
- (h) Burns and Plastics;
- (i) Rehabilitation;
- (j) Cardio - Respiratory;
- (k) Neurology;
- (l) Palliative Chronic Care;
- (m) Psychiatric;
- (n) Mentally Handicapped;
- (o) Preventive/Health Education;
- (p) Obstetrics and Gynaecology;
- (q) Not involved in patient care;
- (r) Other.

In 1991, no massage practitioners indicated principal patient care activity in any of the following areas: intensive care, paediatrics, burns and plastics, cardio-respiratory, neurology, mentally handicapped, obstetrics and gynaecology.

#### 5. Type of Position

Principal type of position as reported on the registration renewal form is reported in Table 6 using the following categories:

- (a) Staff Therapist;
- (b) Sole Charge;
- (c) Program Co-ordinator;
- (d) Senior Therapist;
- (e) Clinical Instructor;
- (f) Research Therapist;
- (g) Director;
- (h) Assistant Director;
- (i) Consultant;
- (j) Owner/Partner - Private Practice;
- (k) Associate - Private Practice;
- (l) Other.

In 1991, no massage practitioners indicated program co-ordinator or assistant director as principal type of position.

**Massage Practitioners  
Employed in Massage Therapy and/or PT/OT  
per 10,000 Population  
by Regional Hospital District  
N=435**

360

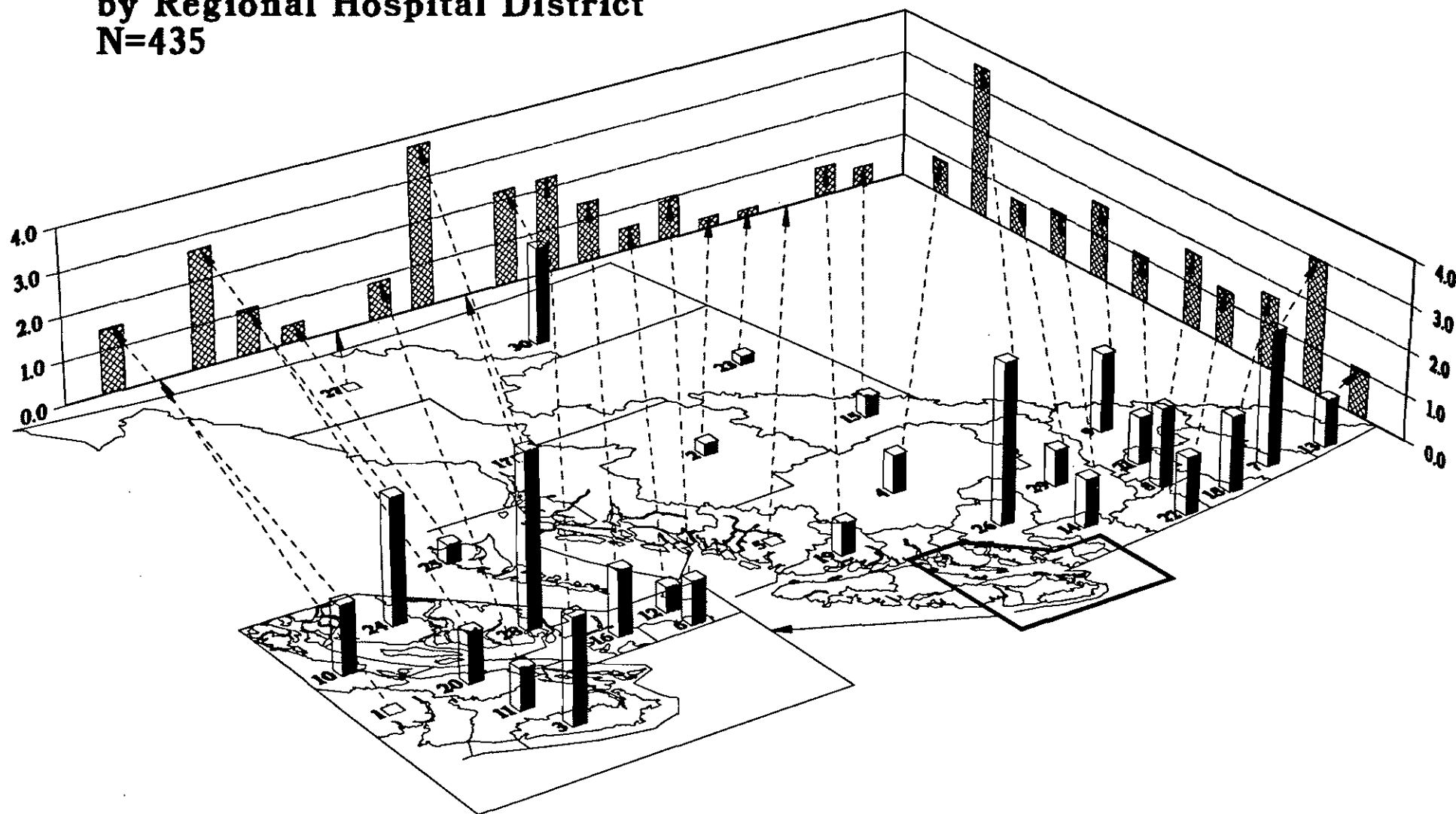


Table 1

**Massage Practitioners<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**December 1991**

Regional Hospital District	Employed as MP	Employed in PT/OT <sup>2</sup>	Subtotal	Employed Other <sup>3</sup>	Not Employed	Unknown	Total
<b>Non-Metropolitan - Subtotal</b>	<b>148</b>	<b>5</b>	<b>153</b>	<b>1</b>	<b>7</b>	<b>44</b>	<b>205</b>
1 Alberni-Clayoquot	0	0	0	0	0	1	1
2 Bulkley-Nechako	1	0	1	0	0	2	3
4 Cariboo	5	0	5	0	1	1	7
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	8	0	8	0	0	0	8
7 Central Kootenay	14	1	15	0	0	1	16
8 Central Okanagan	18	0	18	0	1	4	23
9 Columbia-Shuswap	7	0	7	0	0	2	9
10 Comox-Strathcona	12	0	12	0	0	6	18
11 Cowichan Valley	5	0	5	0	0	2	7
12 Dewdney-Alouette	5	0	5	0	0	4	9
13 East Kootenay	5	0	5	0	0	2	7
14 Fraser-Cheam	7	0	7	0	0	0	7
15 Fraser-Fort George	4	0	4	0	0	0	4
17 Kitimat-Stikine	0	0	0	0	0	1	1
18 Kootenay Boundary	4	1	5	0	0	0	5
19 Mount Waddington	1	0	1	0	0	0	1
20 Nanaimo	10	0	10	0	2	2	14
21 North Okanagan	6	0	6	0	0	4	10
22 Okanagan-Similkameen	8	0	8	1	0	1	10
23 Peace River	1	0	1	0	0	1	2
24 Powell River	2	3	5	0	0	0	5
25 Skeena-Queen Charlotte	1	0	1	0	0	0	1
26 Squamish-Lillooet	8	0	8	0	1	6	15
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	7	0	7	0	1	2	10
29 Thompson-Nicola	8	0	8	0	1	2	11
30 Fort Nelson/Liard	1	0	1	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>280</b>	<b>2</b>	<b>282</b>	<b>9</b>	<b>20</b>	<b>100</b>	<b>411</b>
3 Capital	67	0	67	3	4	22	96
16 Greater Vancouver	213	2	215	6	16	78	315
<b>TOTAL</b>	<b>428</b>	<b>7</b>	<b>435</b>	<b>10</b>	<b>27</b>	<b>144</b>	<b>616</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 6 MPs employed in physiotherapy and 1 in occupational therapy.

<sup>3</sup>Includes 6 MPs employed in other health care fields, and 4 in non-health care fields.

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Table 2

**Massage Practitioners<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Age and Sex**  
**December 1991**

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Unknown		Subtotal		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>3</b>	<b>4</b>	<b>20</b>	<b>50</b>	<b>24</b>	<b>52</b>	<b>5</b>	<b>13</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>15</b>	<b>66</b>	<b>139</b>	<b>205</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
2 Bulkley-Nechako	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	2	3
4 Cariboo	0	0	0	3	0	1	0	1	0	0	0	0	0	2	0	7	7
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	1	2	4	1	0	0	0	0	0	0	0	3	5	8
7 Central Kootenay	1	0	1	4	3	5	0	0	2	0	0	0	0	0	7	9	16
8 Central Okanagan	0	1	5	4	5	5	1	0	2	0	0	0	0	0	13	10	23
9 Columbia-Shuswap	0	0	1	3	2	2	0	1	0	0	0	0	0	0	3	6	9
10 Comox-Strathcona	1	0	0	2	2	9	0	1	0	1	0	0	0	2	3	15	18
11 Cowichan Valley	0	1	0	2	1	2	0	0	0	0	0	0	1	0	2	5	7
12 Dewdney-Alouette	0	0	0	3	0	2	0	0	0	0	0	0	2	2	2	7	9
13 East Kootenay	0	0	0	2	2	3	0	0	0	0	0	0	0	0	2	5	7
14 Fraser-Cheam	0	0	0	2	2	0	0	1	1	0	1	0	0	0	4	3	7
15 Fraser-Fort George	0	0	1	0	0	3	0	0	0	0	0	0	0	0	1	3	4
17 Kitimat-Stikine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1
18 Kootenay Boundary	0	0	0	2	0	1	1	0	0	0	1	0	0	0	2	3	5
19 Mount Waddington	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
20 Nanaimo	0	0	2	5	2	5	0	0	0	0	0	0	0	0	4	10	14
21 North Okanagan	0	0	0	2	2	2	0	1	0	1	0	0	1	1	3	7	10
22 Okanagan-Similkameen	0	0	3	0	0	3	2	2	0	0	0	0	0	0	5	5	10
23 Peace River	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	1	2
24 Powell River	0	0	1	1	0	1	0	1	0	0	0	0	1	0	2	3	5
25 Skeena-Queen Charlotte	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
26 Squamish-Lillooet	0	1	3	5	0	1	0	1	0	0	0	0	0	4	3	12	15
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	1	0	3	0	2	0	2	0	0	0	1	0	1	0	10	10
29 Thompson-Nicola	1	0	1	3	1	0	0	1	0	1	1	0	0	2	4	7	11
30 Fort Nelson/Liard	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
<b>Metropolitan - Subtotal</b>	<b>4</b>	<b>10</b>	<b>23</b>	<b>104</b>	<b>52</b>	<b>119</b>	<b>15</b>	<b>27</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>10</b>	<b>37</b>	<b>110</b>	<b>301</b>	<b>411</b>
3 Capital	0	1	3	16	13	34	10	6	1	0	1	0	1	10	29	67	96
16 Greater Vancouver	4	9	20	88	39	85	5	21	3	3	1	1	9	27	81	234	315
<b>TOTAL</b>	<b>7</b>	<b>14</b>	<b>43</b>	<b>154</b>	<b>76</b>	<b>171</b>	<b>20</b>	<b>40</b>	<b>9</b>	<b>7</b>	<b>5</b>	<b>2</b>	<b>16</b>	<b>52</b>	<b>176</b>	<b>440</b>	<b>616</b>

<sup>1</sup>Definitions are as in the attached text.

Table 3

**Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1989 and December 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1989	1991	1989	1991	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>92</b>	<b>153</b>	<b>0.69</b>	<b>1.11</b>	<b>28.96</b>	<b>26.59</b>
1 Alberni-Clayoquot	1	0	0.33	0.00	*	*
2 Bulkley-Nechako	1	1	0.27	0.26	*	*
4 Cariboo	3	5	0.51	0.84	*	*
5 Central Coast	0	0	0.00	0.00	*	*
6 Central Fraser Valley	4	8	0.52	0.94	*	*
7 Central Kootenay	8	15	1.65	2.99	*	*
8 Central Okanagan	14	18	1.43	1.72	13.39	9.71
9 Columbia-Shuswap	4	7	1.01	1.75	*	*
10 Comox-Strathcona	7	12	0.92	1.49	*	*
11 Cowichan Valley	4	5	0.72	0.88	*	*
12 Dewdney-Alouette	5	5	0.61	0.55	*	*
13 East Kootenay	3	5	0.62	1.05	*	*
14 Fraser-Cheam	6	7	0.95	1.06	*	*
15 Fraser-Fort George	4	4	0.46	0.46	*	*
17 Kitimat-Stikine	1	0	0.26	0.00	*	*
18 Kootenay Boundary	2	5	0.67	1.67	*	*
19 Mount Waddington	0	1	0.00	0.71	*	*
20 Nanaimo	6	10	0.68	1.07	*	*
21 North Okanagan	1	6	0.18	1.05	*	*
22 Okanagan-Similkameen	8	8	1.29	1.26	*	*
23 Peace River	0	1	0.00	0.20	*	*
24 Powell River	0	5	0.00	2.72	*	*
25 Skeena-Queen Charlotte	0	1	0.00	0.43	*	*
26 Squamish-Lillooet	2	8	0.93	3.54	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	4	7	2.24	3.79	*	*
29 Thompson-Nicola	3	8	0.31	0.80	*	*
30 Fort Nelson/Liard	1	1	2.13	2.22	*	*
<b>Metropolitan - Subtotal</b>	<b>169</b>	<b>282</b>	<b>0.98</b>	<b>1.54</b>	<b>29.18</b>	<b>25.60</b>
3 Capital	40	67	1.41	2.25	29.42	26.24
16 Greater Vancouver	129	215	0.89	1.41	29.10	25.44
<b>TOTAL</b>	<b>261</b>	<b>435</b>	<b>0.85</b>	<b>1.36</b>	<b>29.10</b>	<b>26.04</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes MPs employed in physiotherapy and occupational therapy.

<sup>3</sup>Rate of change (in percent) in the number.

<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 4

**Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia**  
**by Regional Hospital District by Type of Principal Employing Institution**  
**December 1991**

Regional Hospital District	Community Health Centre	Psych. Hospital	Rehab. Hospital	University/ College	Industry	Private Practice	Other <sup>3</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>138</b>	<b>12</b>	<b>153</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	1	0	0	1
4 Cariboo	0	0	0	0	0	5	0	5
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	8	0	8
7 Central Kootenay	0	0	0	0	0	13	2	15
8 Central Okanagan	0	0	0	0	0	18	0	18
9 Columbia-Shuswap	0	0	0	0	0	6	1	7
10 Comox-Strathcona	0	0	0	0	0	11	1	12
11 Cowichan Valley	0	0	0	0	0	5	0	5
12 Dewdney-Alouette	0	0	0	0	0	5	0	5
13 East Kootenay	0	0	0	0	0	5	0	5
14 Fraser-Cheam	0	0	0	0	0	5	2	7
15 Fraser-Fort George	0	0	0	0	0	3	1	4
17 Kitimat-Stikine	0	0	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	0	5	0	5
19 Mount Waddington	0	0	0	0	0	1	0	1
20 Nanaimo	0	0	0	0	0	10	0	10
21 North Okanagan	0	0	0	0	0	5	1	6
22 Okanagan-Similkameen	0	0	0	0	0	8	0	8
23 Peace River	0	0	0	0	0	0	1	1
24 Powell River	0	0	0	1	0	3	1	5
25 Skeena-Queen Charlotte	0	0	0	0	0	1	0	1
26 Squamish-Lillooet	0	0	0	0	0	6	2	8
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	7	0	7
29 Thompson-Nicola	1	0	0	0	0	7	0	8
30 Fort Nelson/Liard	0	0	0	0	0	1	0	1
<b>Metropolitan - Subtotal</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>248</b>	<b>28</b>	<b>282</b>
3 Capital	0	0	0	0	0	58	9	67
16 Greater Vancouver	0	1	1	3	1	190	19	215
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>2</b>	<b>386</b>	<b>40</b>	<b>435</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes MPs employed in physiotherapy and occupational therapy.

<sup>3</sup>Includes 22 MPs who did not provide information.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia



Table 5

**Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia**  
**by Regional Hospital District by Principal Patient Care Activity**  
**December 1991**

Regional Hospital District	Ortho- paedics	Rheuma- tology	General	Sports Medicine	Geri- atrics	Rehabil- itation
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>1</b>	<b>105</b>	<b>5</b>	<b>1</b>	<b>9</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	1	0	0	0
4 Cariboo	0	0	4	0	0	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	0	0	6	0	0	0
7 Central Kootenay	0	0	7	1	0	2
8 Central Okanagan	0	0	14	0	0	2
9 Columbia-Shuswap	0	0	6	0	0	0
10 Comox-Strathcona	0	0	7	0	1	1
11 Cowichan Valley	0	0	5	0	0	0
12 Dewdney-Alouette	0	0	4	0	0	0
13 East Kootenay	0	0	4	0	0	0
14 Fraser-Cheam	0	0	5	0	0	0
15 Fraser-Fort George	0	0	2	0	0	0
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	0	0	4	0	0	1
19 Mount Waddington	0	0	1	0	0	0
20 Nanaimo	0	0	6	1	0	0
21 North Okanagan	0	0	6	0	0	0
22 Okanagan-Similkameen	0	1	6	0	0	0
23 Peace River	0	0	0	0	0	0
24 Powell River	0	0	3	0	0	0
25 Skeena-Queen Charlotte	0	0	1	0	0	0
26 Squamish-Lillooet	0	0	1	3	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	5	0	0	0
29 Thompson-Nicola	0	0	6	0	0	2
30 Fort Nelson/Liard	0	0	1	0	0	0
<b>Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>166</b>	<b>4</b>	<b>2</b>	<b>28</b>
3 Capital	0	0	35	3	2	8
16 Greater Vancouver	1	0	131	1	0	20
<b>TOTAL</b>	<b>1</b>	<b>1</b>	<b>271</b>	<b>9</b>	<b>3</b>	<b>37</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 5  
(Continued)

Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia  
by Regional Hospital District by Principal Patient Care Activity  
December 1991

Regional Hospital District	Chronic Care	Psychi- atric	Preventive/ Health Education	Not in patient care	Other <sup>3</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>0</b>	<b>5</b>	<b>1</b>	<b>25</b>	<b>153</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1
4 Cariboo	0	0	0	0	1	5
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	0	0	1	0	1	8
7 Central Kootenay	0	0	1	1	3	15
8 Central Okanagan	0	0	0	0	2	18
9 Columbia-Shuswap	0	0	0	0	1	7
10 Comox-Strathcona	0	0	1	0	2	12
11 Cowichan Valley	0	0	0	0	0	5
12 Dewdney-Alouette	0	0	0	0	1	5
13 East Kootenay	0	0	0	0	1	5
14 Fraser-Cheam	0	0	0	0	2	7
15 Fraser-Fort George	0	0	0	0	2	4
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	0	5
19 Mount Waddington	0	0	0	0	0	1
20 Nanaimo	0	0	1	0	2	10
21 North Okanagan	0	0	0	0	0	6
22 Okanagan-Similkameen	0	0	0	0	1	8
23 Peace River	0	0	0	0	1	1
24 Powell River	0	0	0	0	2	5
25 Skeena-Queen Charlotte	0	0	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	3	8
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	0	1	0	0	7
29 Thompson-Nicola	0	0	0	0	0	8
30 Fort Nelson/Liard	0	0	0	0	0	1
<b>Metropolitan - Subtotal</b>	<b>1</b>	<b>1</b>	<b>22</b>	<b>5</b>	<b>52</b>	<b>282</b>
3 Capital	1	0	1	1	16	67
16 Greater Vancouver	0	1	21	4	36	215
<b>TOTAL</b>	<b>2</b>	<b>1</b>	<b>27</b>	<b>6</b>	<b>77</b>	<b>435</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes MPs employed in physiotherapy and occupational therapy.

<sup>3</sup>Includes 41 MPs who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 6

**Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia**  
**by Regional Hospital District by Principal Type of Position**  
**December 1991**

<b>Regional Hospital District</b>	<b>Staff Therapist</b>	<b>Sole Charge</b>	<b>Senior Therapist</b>	<b>Clinical Instructor</b>	<b>Research Therapist</b>	<b>Director/ Assistant Director</b>
<b>Non-Metropolitan - Subtotal</b>	<b>8</b>	<b>7</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0
4 Cariboo	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	0
7 Central Kootenay	1	1	0	0	0	0
8 Central Okanagan	0	0	0	0	0	0
9 Columbia-Shuswap	0	0	1	0	0	0
10 Comox-Strathcona	0	0	0	0	0	0
11 Cowichan Valley	0	0	0	0	0	0
12 Dewdney-Alouette	0	0	0	0	0	0
13 East Kootenay	0	0	0	0	0	0
14 Fraser-Cheam	1	0	1	0	0	0
15 Fraser-Fort George	0	1	0	0	0	0
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	1	1	0	0	0	0
19 Mount Waddington	0	1	0	0	0	0
20 Nanaimo	0	0	0	0	0	0
21 North Okanagan	1	1	0	0	0	0
22 Okanagan-Similkameen	0	1	0	0	0	0
23 Peace River	0	0	0	0	0	0
24 Powell River	1	0	0	0	0	1
25 Skeena-Queen Charlotte	0	0	0	0	0	0
26 Squamish-Lillooet	1	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	0
29 Thompson-Nicola	1	1	0	0	0	0
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>14</b>	<b>10</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>
3 Capital	1	3	2	0	0	0
16 Greater Vancouver	13	7	1	1	1	2
<b>TOTAL</b>	<b>22</b>	<b>17</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>3</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 6  
(Continued)

Massage Practitioners<sup>1</sup> Employed in Massage Therapy<sup>2</sup> in British Columbia  
by Regional Hospital District by Principal Type of Position  
December 1991

Regional Hospital District	Consultant	Private Practice		Other <sup>3</sup>	Total
		Owner/ Partner	Associate		
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>107</b>	<b>19</b>	<b>9</b>	<b>153</b>
1 Alberni-Clayoquot	0	0	0	0	0
2 Bulkley-Nechako	0	1	0	0	1
4 Cariboo	0	4	1	0	5
5 Central Coast	0	0	0	0	0
6 Central Fraser Valley	0	7	1	0	8
7 Central Kootenay	0	11	1	1	15
8 Central Okanagan	0	17	1	0	18
9 Columbia-Shuswap	0	4	1	1	7
10 Comox-Strathcona	0	7	4	1	12
11 Cowichan Valley	0	5	0	0	5
12 Dewdney-Alouette	0	3	2	0	5
13 East Kootenay	0	4	1	0	5
14 Fraser-Cheam	0	4	0	1	7
15 Fraser-Fort George	0	2	0	1	4
17 Kitimat-Stikine	0	0	0	0	0
18 Kootenay Boundary	0	3	0	0	5
19 Mount Waddington	0	0	0	0	1
20 Nanaimo	0	9	1	0	10
21 North Okanagan	0	3	1	0	6
22 Okanagan-Similkameen	0	6	1	0	8
23 Peace River	0	0	0	1	1
24 Powell River	0	1	1	1	5
25 Skeena-Queen Charlotte	0	0	1	0	1
26 Squamish-Lillooet	0	4	1	2	8
27 Stikine	0	0	0	0	0
28 Sunshine Coast	0	6	0	0	7
29 Thompson-Nicola	0	5	1	0	8
30 Fort Nelson/Liard	0	1	0	0	1
<b>Metropolitan - Subtotal</b>	<b>1</b>	<b>143</b>	<b>83</b>	<b>24</b>	<b>282</b>
3 Capital	0	44	11	6	67
16 Greater Vancouver	1	99	72	18	215
<b>TOTAL</b>	<b>1</b>	<b>250</b>	<b>102</b>	<b>33</b>	<b>435</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes MPs employed in physiotherapy and occupational therapy.

<sup>3</sup>Includes 25 MPs who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

## OCCUPATIONAL THERAPISTS



## OCCUPATIONAL THERAPISTS

**Definition:** An occupational therapist

plans and carries out treatment programs based on activities such as work, education and recreation to rehabilitate physically and mentally disabled persons.

Administers tests and observes patient to assess emotional, mental and physical capacities of patient. Plans and directs programs in manual and creative arts, industrial and vocational skills, recreational activities, remedial games, cultural and educational interests, and play activities for children. Conducts group programs to assist patients in building self-confidence and in adjusting to family and community. Trains handicapped patients in self-care and daily living activities. Advises and instructs patients on specially-adapted household equipment and furnishings. Assesses patients' vocational potential and provides work adjustment and actual work experience. Participates in testing and training of patients with perceptual motor problems, and provides training for children with learning disabilities. Records patients' activities, response and progress. Attends meetings of rehabilitation team, and seminars, workshops and courses on occupational therapy. Supervises and instructs occupational therapy students and auxiliary personnel assigned to department.<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the British Columbia Society of Occupational Therapists (BCSOT) is voluntary. However, registered members of the BCSOT have exclusive use of the titles: *Registered Occupational Therapist, (B.C.)*, *Registered OT, (B.C.)*. Occupational therapists who have graduated from a dual program in occupational therapy and physiotherapy may be registered with the Association of Physiotherapists and Massage Practitioners of British Columbia. Such persons are included in *both* the occupational therapy and physiotherapy sections of ROLLCALL 91.

**Date of Record:** December 1989 and December 1991.

**Source of Data:** British Columbia Society of Occupational Therapists (BCSOT).

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<sup>1</sup>Canadian Classification and Dictionary of Occupations 1980.

Major Group 31, No. 3137-118, p. 55, Ottawa: Employment and Immigration Canada.

### **Preparation and Updating:**

The tables have been prepared from registration data maintained by the BCSOT and include Occupational Therapists who were full- or part-time members and British Columbia residents at the date of record.

### **Definition of Terms:**

#### **1. Employment Status**

Employment status, as reported by 1991 registrants, is displayed in Table 1 using the following categories:

- (a) Employed in occupational therapy (OT);
- (b) Employed in combined OT and PT;
- (c) Not employed;
- (d) Other.

Table 2 reports the number of occupational therapists per 10,000 population by employment status. Average annual rates of change for all occupational therapists are described in Table 3.

#### **2. Age and Sex**

Age and sex information on occupational therapists is shown in Table 4. Age information is grouped according to standard age categories developed and used by Statistics Canada.

#### **3. Type of Employing Institution**

Table 5 displays the type of principal employing institution as reported by 1991 registrants employed in OT. The following categories are used:

- (a) Acute Care Hospital;
- (b) Paediatric Hospital;
- (c) Rehabilitation Hospital;
- (d) Psychiatric Hospital;
- (e) Extended Care Hospital;
- (f) Intermediate Care Facility;
- (g) Personal/Home Care;
- (h) Adult Day Care;
- (i) Public Community Health Agency/Centre for Mentally Handicapped;
- (j) Children's Treatment/Outpatient Centre;
- (k) Workers' Compensation Board;
- (l) Voluntary/Non-profit Agency;
- (m) School Board/University;
- (n) Private Practice;
- (o) Other.



#### 4. Area of Service

Principal area of service, as reported by 1991 registrants employed in OT, is presented in Table 6. The following categories are used:

- (a) Acute Care - Inpatient;
- (b) Extended Care - Inpatient;
- (c) Psychiatry - Inpatient;
- (d) Psychiatry - Outpatient;
- (e) Rehabilitation - Inpatient;
- (f) Rehabilitation - Outpatient;
- (g) General Outpatient;
- (h) Administration;
- (i) Research/Teaching;
- (j) Home Care;
- (k) Vocational Rehabilitation;
- (l) Other.

#### 5. Type of Position

Table 7 shows principal type of position, as reported by 1991 registrants employed in OT. The following categories are used:

- (a) Staff Therapist;
- (b) Senior Therapist;
- (c) Sole Charge;
- (d) Department Head/Assistant Department Head;
- (e) Clinical Coordinator;
- (f) Program Coordinator/Director;
- (g) Faculty Position;
- (h) Consultant;
- (i) Researcher;
- (j) Clinical Specialist;
- (k) Other.

**Occupational Therapists (Registered Members)  
Employed in Occupational Therapy  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=509**

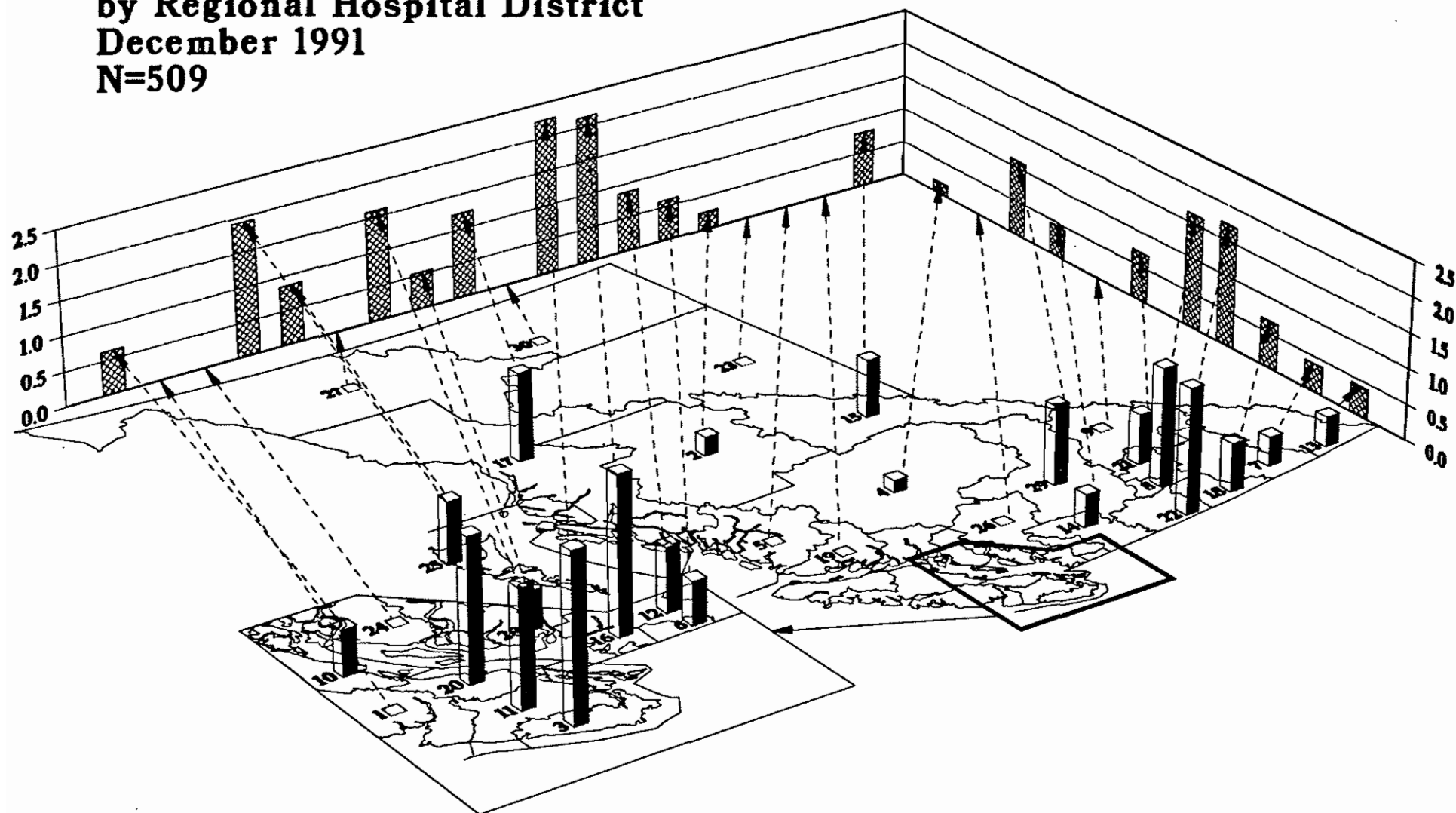


Table 1

Occupational Therapists (Registered Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Employment Status

December 1989 and December 1991

Regional Hospital District	Employed in OT						Not Employed	Other <sup>2</sup>	Total			
	OT		Combined OT/PT		Subtotal							
	1989	1991	1989	1991	1989	1991					1989	1991
Non-Metropolitan - Subtotal	85	108	5	6	87	114	3	2	3	15	96	131
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	1	1	0	0	1	1	0	0	0	0	1	1
4 Cariboo	1	1	0	0	1	1	0	0	0	0	1	1
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	5	5	0	0	5	5	0	0	0	3	5	8
7 Central Kootenay	1	2	0	0	1	2	1	0	1	1	3	3
8 Central Okanagan	15	15	1	2	16	17	0	0	1	1	17	18
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	0	0	0	0
10 Comox-Strathcona	3	5	0	0	3	5	1	0	0	1	4	6
11 Cowichan Valley	6	9	0	0	6	9	1	0	0	1	7	10
12 Dewdney-Alouette	8	8	0	0	8	8	0	0	0	2	8	10
13 East Kootenay	3	2	1	0	4	2	0	0	0	1	4	3
14 Fraser-Cheam	0	2	0	1	0	3	0	0	0	0	0	3
15 Fraser-Fort George	3	7	1	0	4	7	0	1	0	1	4	9
17 Kitimat-Stikine	3	4	0	1	3	5	0	0	1	0	4	5
18 Kootenay Boundary	2	2	0	0	2	2	0	0	0	0	2	2
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	12	18	0	0	12	18	0	0	0	1	12	19
21 North Okanagan	4	4	0	0	4	4	0	0	0	0	4	4
22 Okanagan-Similkameen	7	10	0	1	7	11	0	0	0	0	7	11
23 Peace River	0	0	0	0	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0	1	0	0	0	1
25 Skeena-Queen Charlotte	2	2	0	0	2	2	0	0	0	0	2	2
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	1	0	0	1	1	0	0	0	1	1	2
29 Thompson-Nicola	8	10	2	1	2	11	0	0	0	2	10	13
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0
Metropolitan - Subtotal	289	381	10	14	299	395	12	4	21	27	335	426
3 Capital	41	61	2	6	43	67	3	0	10	4	56	71
16 Greater Vancouver	248	320	8	8	256	328	9	4	14	23	279	355
TOTAL	374	489	15	20	389	509	15	6	27	42	431	557

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 8 employed in other than OT, 1 retired, 9 on maternity leave, 3 on sick leave, 19 other, and 2 who did not provide information.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

**Occupational Therapists (Registered Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District by Employment Status**  
**December 1989<sup>2</sup> and December 1991**

Regional Hospital District	Employed in OT						Not Employed	Other <sup>1</sup>	Total			
	OT		Combined OT/PT		Subtotal							
	1989	1991	1989	1991	1989	1991					1989	1991
Non-Metropolitan - Subtotal	0.64	0.78	0.04	0.04	0.66	0.83	0.02	0.01	0.02	0.11	0.72	0.95
1 Alberni-Clayoquot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2 Bulkley-Nechako	0.27	0.26	0.00	0.00	0.27	0.26	0.00	0.00	0.00	0.00	0.27	0.26
4 Cariboo	0.17	0.17	0.00	0.00	0.17	0.17	0.00	0.00	0.00	0.00	0.17	0.17
5 Central Coast	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 Central Fraser Valley	0.65	0.59	0.00	0.00	0.65	0.59	0.00	0.00	0.00	0.35	0.65	0.94
7 Central Kootenay	0.21	0.40	0.00	0.00	0.21	0.40	0.21	0.00	0.21	0.20	0.62	0.60
8 Central Okanagan	1.53	1.44	0.10	0.19	1.64	1.63	0.00	0.00	0.10	0.10	1.74	1.72
9 Columbia-Shuswap	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 Comox-Strathcona	0.39	0.62	0.00	0.00	0.39	0.62	0.13	0.00	0.00	0.12	0.52	0.74
11 Cowichan Valley	1.09	1.59	0.00	0.00	1.09	1.59	0.18	0.00	0.00	0.18	1.27	1.76
12 Dewdney-Alouette	0.97	0.88	0.00	0.00	0.97	0.88	0.00	0.00	0.00	0.22	0.97	1.10
13 East Kootenay	0.62	0.42	0.21	0.00	0.82	0.42	0.00	0.00	0.00	0.21	0.82	0.63
14 Fraser-Cheam	0.00	0.30	0.00	0.15	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.45
15 Fraser-Fort George	0.35	0.81	0.12	0.00	0.46	0.81	0.00	0.12	0.00	0.12	0.46	1.04
17 Kitimat-Stikine	0.77	0.99	0.00	0.25	0.77	1.23	0.00	0.00	0.26	0.00	1.02	1.23
18 Kootenay Boundary	0.67	0.67	0.00	0.00	0.67	0.67	0.00	0.00	0.00	0.00	0.67	0.67
19 Mount Waddington	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20 Nanaimo	1.36	1.92	0.00	0.00	1.36	1.92	0.00	0.00	0.00	0.11	1.36	2.02
21 North Okanagan	0.71	0.70	0.00	0.00	0.71	0.70	0.00	0.00	0.00	0.00	0.71	0.70
22 Okanagan-Similkameen	1.13	1.57	0.00	0.16	1.13	1.73	0.00	0.00	0.00	0.00	1.13	1.73
23 Peace River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24 Powell River	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.54
25 Skeena-Queen Charlotte	0.87	0.86	0.00	0.00	0.87	0.86	0.00	0.00	0.00	0.00	0.87	0.86
26 Squamish-Lillooet	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	0.56	0.54	0.00	0.00	0.56	0.54	0.00	0.00	0.00	0.54	0.56	1.08
29 Thompson-Nicola	0.82	1.00	0.20	0.10	0.20	1.10	0.00	0.00	0.00	0.20	1.02	1.30
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Metropolitan - Subtotal	1.67	2.09	0.06	0.08	1.73	2.16	0.07	0.02	0.12	0.15	1.94	2.33
3 Capital	1.45	2.05	0.07	0.20	1.52	2.25	0.11	0.00	0.35	0.13	1.98	2.39
16 Greater Vancouver	1.72	2.09	0.06	0.05	1.77	2.14	0.06	0.03	0.10	0.15	1.93	2.32
TOTAL	1.22	1.53	0.05	0.06	1.27	1.59	0.05	0.02	0.09	0.13	1.41	1.74

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>These figures differ from the corresponding figures appearing in ROLLCALL 89. See Foreword.

<sup>3</sup>Includes 8 employed in other than OT, 1 retired, 9 on maternity leave, 3 on sick leave, 19 other, and 2 who did not provide information.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 3

**Average Annual Rate of Change: Occupational Therapists (Registered Members)<sup>1</sup>**  
**in British Columbia by Regional Hospital District by Employment Status**  
**December 1989 to December 1991**

Regional Hospital District	Employed in OT				Not Employed		Other		Total	
	OT		Subtotal <sup>2</sup>		Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>
	Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>						
<b>Non-Metropolitan - Subtotal</b>	<b>12.72</b>	<b>10.65</b>	<b>14.47</b>	<b>12.37</b>	*	*	*	*	<b>16.82</b>	<b>14.67</b>
1 Alberni-Clayoquot	*	*	*	*	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	*	*	*	*	*	*
4 Cariboo	*	*	*	*	*	*	*	*	*	*
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	*	*	*	*	*	*	*	*	*	*
7 Central Kootenay	*	*	*	*	*	*	*	*	*	*
8 Central Okanagan	0.00	-3.25	3.08	-0.27	*	*	*	*	2.90	-0.44
9 Columbia-Shuswap	*	*	*	*	*	*	*	*	*	*
10 Comox-Strathcona	*	*	*	*	*	*	*	*	*	*
11 Cowichan Valley	*	*	*	*	*	*	*	*	*	*
12 Dewdney-Alouette	*	*	*	*	*	*	*	*	*	*
13 East Kootenay	*	*	*	*	*	*	*	*	*	*
14 Fraser-Cheam	*	*	*	*	*	*	*	*	*	*
15 Fraser-Fort George	*	*	*	*	*	*	*	*	*	*
17 Kitimat-Stikine	*	*	*	*	*	*	*	*	*	*
18 Kootenay Boundary	*	*	*	*	*	*	*	*	*	*
19 Mount Waddington	*	*	*	*	*	*	*	*	*	*
20 Nanaimo	22.47	18.80	22.47	18.80	*	*	*	*	25.83	22.05
21 North Okanagan	*	*	*	*	*	*	*	*	*	*
22 Okanagan-Similkameen	*	*	*	*	*	*	*	*	*	*
23 Peace River	*	*	*	*	*	*	*	*	*	*
24 Powell River	*	*	*	*	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	*	*	*	*
29 Thompson-Nicola	*	*	*	*	*	*	*	*	14.02	12.89
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>14.82</b>	<b>11.64</b>	<b>14.94</b>	<b>11.75</b>	<b>-42.26</b>	<b>-43.86</b>	<b>13.39</b>	<b>10.25</b>	<b>12.77</b>	<b>9.64</b>
3 Capital	21.98	18.98	24.83	21.76	*	*	-36.75	-38.31	12.60	9.83
16 Greater Vancouver	13.59	10.38	13.19	9.99	*	*	28.17	24.54	12.80	9.61
<b>TOTAL</b>	<b>14.35</b>	<b>11.64</b>	<b>14.39</b>	<b>11.68</b>	<b>-36.75</b>	<b>-38.25</b>	<b>24.72</b>	<b>21.77</b>	<b>13.68</b>	<b>10.99</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 20 occupational therapists employed in combined OT/PT.

<sup>3</sup>Rate of change (in percent) in the number.

<sup>4</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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Table 4

Occupational Therapists (Registered Members)<sup>1</sup> in British Columbia

by Regional Hospital District by Age and Sex

December 1991

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Subtotal		Total <sup>2</sup>
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>55</b>	<b>2</b>	<b>50</b>	<b>1</b>	<b>14</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>128</b>	<b>131</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1	0	0	0	0	0	0	0	1	1
4 Cariboo	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
5 Central Coast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	1	0	2	0	2	0	2	0	1	0	0	0	8	8
7 Central Kootenay	0	0	0	1	0	2	0	0	0	0	0	0	0	3	3
8 Central Okanagan	0	0	0	9	1	7	0	1	0	0	0	0	1	17	18
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Comox-Strathcona	0	0	0	2	0	3	0	1	0	0	0	0	0	6	6
11 Cowichan Valley	0	1	0	3	0	5	0	0	0	1	0	0	0	10	10
12 Dewdney-Alouette	0	0	0	2	0	5	1	1	0	1	0	0	1	9	10
13 East Kootenay	0	0	0	1	0	2	0	0	0	0	0	0	0	3	3
14 Fraser-Cheam	0	0	0	2	0	1	0	0	0	0	0	0	0	3	3
15 Fraser-Fort George	0	1	0	4	1	2	0	1	0	0	0	0	1	8	9
17 Kitimat-Stikine	0	0	0	3	0	2	0	0	0	0	0	0	0	5	5
18 Kootenay Boundary	0	0	0	1	0	1	0	0	0	0	0	0	0	2	2
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	0	1	0	10	0	6	0	1	0	1	0	0	0	19	19
21 North Okanagan	0	0	0	2	0	1	0	1	0	0	0	0	0	4	4
22 Okanagan-Similkameen	0	0	0	4	0	3	0	4	0	0	0	0	0	11	11
23 Peace River	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
25 Skeena-Queen Charlotte	0	0	0	1	0	1	0	0	0	0	0	0	0	2	2
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	1	0	1	0	0	0	0	0	0	0	2	2
29 Thompson-Nicola	0	0	0	5	0	5	0	2	0	1	0	0	0	13	13
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>0</b>	<b>13</b>	<b>11</b>	<b>152</b>	<b>9</b>	<b>130</b>	<b>1</b>	<b>79</b>	<b>1</b>	<b>25</b>	<b>0</b>	<b>1</b>	<b>22</b>	<b>400</b>	<b>426</b>
3 Capital	0	3	2	19	2	16	1	22	0	4	0	1	5	65	71
16 Greater Vancouver	0	10	9	133	7	114	0	57	1	21	0	0	17	335	355
<b>TOTAL</b>	<b>0</b>	<b>17</b>	<b>11</b>	<b>207</b>	<b>11</b>	<b>180</b>	<b>2</b>	<b>93</b>	<b>1</b>	<b>30</b>	<b>0</b>	<b>1</b>	<b>25</b>	<b>528</b>	<b>557</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Overall, there were 4 occupational therapists with incomplete age and/or sex information. They are included in the totals for their reported RHDs.

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 The University of British Columbia

Table 5

**Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia**  
**by Regional Hospital District by Type of Principal Employing Institution**

December 1991

Regional Hospital District	Hospital					Intermed. Care	Personal/ Home Care	Adult Day Care
	Acute Care	Paediatric	Rehabil- itation	Psychi- atric	Extended Care			
<b>Non-Metropolitan - Subtotal</b>	<b>55</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	1	0	0	0	0	0	0	0
4 Cariboo	1	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	4	0	0	0	0	0	0	0
7 Central Kootenay	1	0	0	0	0	0	0	0
8 Central Okanagan	10	0	0	0	4	0	0	0
9 Columbia-Shuswap	0	0	0	0	0	0	0	0
10 Comox-Strathcona	3	0	0	0	0	0	0	0
11 Cowichan Valley	3	0	0	0	0	0	0	0
12 Dewdney-Alouette	1	1	0	3	0	0	0	0
13 East Kootenay	2	0	0	0	0	0	0	0
14 Fraser-Cheam	1	0	0	0	0	0	0	0
15 Fraser-Fort George	2	0	0	0	0	0	0	0
17 Kitimat-Stikine	0	0	0	0	1	0	0	0
18 Kootenay Boundary	2	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	7	0	0	0	1	0	0	0
21 North Okanagan	3	0	0	0	0	0	0	0
22 Okanagan-Similkameen	6	0	1	0	0	0	0	0
23 Peace River	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	1	0	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	0	0	0	0	0
29 Thompson-Nicola	6	0	0	0	1	0	0	0
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>133</b>	<b>17</b>	<b>59</b>	<b>13</b>	<b>32</b>	<b>6</b>	<b>2</b>	<b>7</b>
3 Capital	13	0	18	1	11	1	1	1
16 Greater Vancouver	120	17	41	12	21	5	1	6
<b>TOTAL</b>	<b>188</b>	<b>18</b>	<b>60</b>	<b>16</b>	<b>39</b>	<b>6</b>	<b>2</b>	<b>7</b>

<sup>1</sup>Definitions are as in the attached text.

Table 5  
(Continued)

Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia

by Regional Hospital District by Type of Principal Employing Institution

December 1991

Regional Hospital District	Public/ Community Agency <sup>2</sup>	Children's Treatment/ Outpatient	Workers' Comp. Board	Voluntary/ Non-profit Agency	School Board/ University <sup>3</sup>	Private Practice	Other <sup>4</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>4</b>	<b>11</b>	<b>1</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>13</b>	<b>114</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0	0	1
4 Cariboo	0	0	0	0	0	0	0	1
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	1	0	0	0	0	5
7 Central Kootenay	0	0	0	0	0	1	0	2
8 Central Okanagan	1	0	0	0	1	1	0	17
9 Columbia-Shuswap	0	0	0	0	0	0	0	0
10 Comox-Strathcona	0	1	0	0	0	0	1	5
11 Cowichan Valley	0	1	0	0	1	1	3	9
12 Dewdney-Alouette	0	0	0	0	0	1	2	8
13 East Kootenay	0	0	0	0	0	0	0	2
14 Fraser-Cheam	0	1	0	0	0	0	1	3
15 Fraser-Fort George	0	1	0	0	3	1	0	7
17 Kitimat-Stikine	0	2	0	0	1	0	1	5
18 Kootenay Boundary	0	0	0	0	0	0	0	2
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	1	5	0	1	1	1	1	18
21 North Okanagan	1	0	0	0	0	0	0	4
22 Okanagan-Similkameen	0	0	0	1	0	1	2	11
23 Peace River	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	0	1	2
26 Squamish-Lillooet	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0	1
29 Thompson-Nicola	1	0	0	0	0	2	1	11
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>43</b>	<b>13</b>	<b>9</b>	<b>11</b>	<b>9</b>	<b>20</b>	<b>21</b>	<b>395</b>
3 Capital	5	5	1	3	0	4	3	67
16 Greater Vancouver	38	8	8	8	9	16	18	328
<b>TOTAL</b>	<b>47</b>	<b>24</b>	<b>10</b>	<b>13</b>	<b>16</b>	<b>29</b>	<b>34</b>	<b>509</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 2 occupational therapists from the Centre for the Mentally Handicapped.

<sup>3</sup>Includes 6 occupational therapists from school board, and 10 from university/college.

<sup>4</sup>Includes 2 occupational therapists from retail business, 1 from an insurance corporation, 28 other, and 3 who did not provide information.

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The University of British Columbia



Table 6

Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia

by Regional Hospital District by Principal Area of Service

December 1991

Regional Hospital District	Acute Care	Extended Care	Psychiatry		Rehabilitation		General
	Inpatient	Inpatient	In- patient	Out- patient	In- patient	Out- patient	Out- patient
<b>Non-Metropolitan - Subtotal</b>	<b>10</b>	<b>9</b>	<b>14</b>	<b>3</b>	<b>15</b>	<b>12</b>	<b>15</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1	0
4 Cariboo	0	1	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	1	1	0	1
7 Central Kootenay	0	0	0	0	0	0	1
8 Central Okanagan	1	4	2	1	3	1	1
9 Columbia-Shuswap	0	0	0	0	0	0	0
10 Comox-Strathcona	0	0	1	0	0	0	3
11 Cowichan Valley	0	0	1	0	2	0	1
12 Dewdney-Alouette	0	1	5	0	0	1	0
13 East Kootenay	0	0	1	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0	0	0
15 Fraser-Fort George	0	0	1	0	1	3	0
17 Kitimat-Stikine	0	0	0	0	0	2	0
18 Kootenay Boundary	0	0	1	0	0	1	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	2	2	0	0	3	2	4
21 North Okanagan	2	0	0	0	0	0	0
22 Okanagan-Similkameen	2	0	1	0	3	0	2
23 Peace River	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	1	0	0	0	0	0	1
26 Squamish-Lillooet	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	0	1	0	0	0	0	0
29 Thompson-Nicola	2	0	1	1	2	1	1
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>66</b>	<b>47</b>	<b>24</b>	<b>18</b>	<b>51</b>	<b>43</b>	<b>18</b>
3 Capital	5	10	4	3	9	13	2
16 Greater Vancouver	61	37	20	15	42	30	16
<b>TOTAL</b>	<b>76</b>	<b>56</b>	<b>38</b>	<b>21</b>	<b>66</b>	<b>55</b>	<b>33</b>

<sup>1</sup>Definitions are as in the attached text.

Table 6  
(Continued)

**Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia**  
**by Regional Hospital District by Principal Area of Service**  
**December 1991**

<b>Regional Hospital District</b>	<b>Administration</b>	<b>Research/ Teaching<sup>2</sup></b>	<b>Home Care</b>	<b>Vocat. Rehab.</b>	<b>Other<sup>3</sup></b>	<b>Total</b>
<b>Non-Metropolitan - Subtotal</b>	<b>9</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>20</b>	<b>114</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1
4 Cariboo	0	0	0	0	0	1
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	1	0	0	0	1	5
7 Central Kootenay	0	0	0	0	1	2
8 Central Okanagan	1	0	0	0	3	17
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	0	0	1	0	0	5
11 Cowichan Valley	1	1	0	1	2	9
12 Dewdney-Alouette	1	0	0	0	0	8
13 East Kootenay	0	0	0	0	1	2
14 Fraser-Cheam	1	0	0	0	2	3
15 Fraser-Fort George	0	0	0	0	2	7
17 Kitimat-Stikine	0	0	0	0	3	5
18 Kootenay Boundary	0	0	0	0	0	2
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	1	1	1	1	1	18
21 North Okanagan	2	0	0	0	0	4
22 Okanagan-Similkameen	0	0	0	1	2	11
23 Peace River	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	1
29 Thompson-Nicola	1	0	0	0	2	11
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>27</b>	<b>7</b>	<b>30</b>	<b>10</b>	<b>54</b>	<b>395</b>
3 Capital	6	0	5	3	7	67
16 Greater Vancouver	21	7	25	7	47	328
<b>TOTAL</b>	<b>36</b>	<b>9</b>	<b>32</b>	<b>13</b>	<b>74</b>	<b>509</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 3 occupational therapists from teaching and 6 from research.

<sup>3</sup>Includes 7 occupational therapists who did not provide information.

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Table 7

Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia

by Regional Hospital District by Principal Type of Position

December 1991

Regional Hospital District	Staff Therapist	Senior Therapist	Sole Charge	Dept./ Asst. Dept. Head <sup>2</sup>	Clinical Coord.	Program Coord./ Director
<b>Non-Metropolitan - Subtotal</b>	<b>47</b>	<b>10</b>	<b>20</b>	<b>15</b>	<b>0</b>	<b>3</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	1	0	0	0
4 Cariboo	0	0	1	0	0	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	4	0	0	1	0	0
7 Central Kootenay	0	0	1	0	0	0
8 Central Okanagan	10	1	2	2	0	0
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	0	0	3	1	0	0
11 Cowichan Valley	2	2	1	0	0	0
12 Dewdney-Alouette	3	2	0	1	0	1
13 East Kootenay	1	0	0	0	0	0
14 Fraser-Cheam	1	0	0	1	0	0
15 Fraser-Fort George	3	0	1	0	0	0
17 Kitimat-Stikine	0	1	3	1	0	0
18 Kootenay Boundary	1	0	0	1	0	0
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	7	3	3	2	0	1
21 North Okanagan	1	0	1	1	0	1
22 Okanagan-Similkameen	6	1	1	2	0	0
23 Peace River	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0
25 Skeena-Queen Charlotte	1	0	0	1	0	0
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	0	0	0
29 Thompson-Nicola	7	0	1	1	0	0
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>224</b>	<b>57</b>	<b>17</b>	<b>26</b>	<b>6</b>	<b>14</b>
3 Capital	41	7	3	5	2	4
16 Greater Vancouver	183	50	14	21	4	10
<b>TOTAL</b>	<b>271</b>	<b>67</b>	<b>37</b>	<b>41</b>	<b>6</b>	<b>17</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 38 department heads, and 3 assistant department heads.

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... continued

Table 7  
(Continued)

**Occupational Therapists (Registered Members)<sup>1</sup> Employed in Occupational Therapy in British Columbia**  
**by Regional Hospital District by Principal Type of Position**  
**December 1991**

Regional Hospital District	Faculty Position	Consultant	Researcher	Clinical Specialist	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>2</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>114</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	1
4 Cariboo	0	0	0	0	0	1
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	5
7 Central Kootenay	0	0	0	0	1	2
8 Central Okanagan	0	2	0	0	0	17
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	0	0	0	0	1	5
11 Cowichan Valley	1	2	0	0	1	9
12 Dewdney-Alouette	0	1	0	0	0	8
13 East Kootenay	0	0	0	0	1	2
14 Fraser-Cheam	0	1	0	0	0	3
15 Fraser-Fort George	0	3	0	0	0	7
17 Kitimat-Stikine	0	0	0	0	0	5
18 Kootenay Boundary	0	0	0	0	0	2
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	1	1	0	0	0	18
21 North Okanagan	0	0	0	0	0	4
22 Okanagan-Similkameen	0	0	0	0	1	11
23 Peace River	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	2
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	1
29 Thompson-Nicola	0	2	0	0	0	11
30 Fort Nelson/Liard	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>7</b>	<b>26</b>	<b>1</b>	<b>2</b>	<b>15</b>	<b>395</b>
3 Capital	0	2	0	1	2	67
16 Greater Vancouver	7	24	1	1	13	328
<b>TOTAL</b>	<b>9</b>	<b>38</b>	<b>1</b>	<b>2</b>	<b>20</b>	<b>509</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 4 occupational therapists who did not provide information.

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## PHYSIOTHERAPISTS

## PHYSIOTHERAPISTS

**Definition:** A physiotherapist

"provides physical diagnostic and rehabilitative services to patients with physical dysfunctions caused by: trauma, congenital abnormality, disease, surgery, obstetrical and gynecological conditions and aging processes, to restore and/or to achieve optimal function.

Administers tests, examines, observes and takes a full history of patient to determine condition and its status and keeps a record of patient condition.

Develops, plans, coordinates, monitors and adjusts a rehabilitation treatment program appropriate to condition to achieve objectives, either on an individual or group basis.

Provides consultation to physicians, dentists, and other health professionals, teachers or others appropriate to the case.

Instructs, advises and coordinates programs of remedial modalities for continuation of treatment. Recommends referral to other health centres, clinics or treatment facilities as appropriate. Provides consultation and direction to nurses, aides, activity workers to assist in their methods of handling the patient. Advises, teaches, counsels, educates the patient, his/her family, and/or care givers on correct positions, aids, methods and means of movement for the affected part or the body as a whole.

Conducts screening, lectures and other health promotion methods to facilitate physical health and prevent the premature dysfunction of the body. Conducts research projects relating to any of the above to advance the state of knowledge in this field."<sup>1</sup>

**Governing Statute:** Physiotherapists Act, Revised Statutes of British Columbia, 1979, Chapter 327; Health Professions Amendment Act, 1989, Chapter 29, Sections 9-16.

**Governing Body:** Association of Physiotherapists and Massage Practitioners of British Columbia. In order to practise as a physiotherapist in British Columbia, it is necessary to be registered by the Association of Physiotherapists and Massage Practitioners of British Columbia.

**Date of Record:** December 1989 and December 1991.

**Source of Data:** Association of Physiotherapists and Massage Practitioners of British Columbia (APMPBC).

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<sup>1</sup>From information provided by the Association of Physiotherapists and Massage Practitioners of British Columbia, December 1987.

### Preparation and Updating:

The tables, prepared from registration data maintained by the APMPBC, include physiotherapists who were full members of the APMPBC and British Columbia residents at the date of record. Physiotherapists who also hold membership in the British Columbia Society of Occupational Therapists are included in both the physiotherapy and occupational therapy sections of ROLLCALL 91.

### Definition of Terms:

#### 1. Employment Status

Employment status as reported on the registration renewal form is reported in Tables 1 and 2. The following categories are used:

- (a) Employed in physiotherapy (PT);
- (b) Employed in occupational therapy (OT);
- (c) Employed in combined PT and OT;
- (d) Employed in fields other than PT and OT;
- (e) Not employed;
- (f) Unknown.

Table 3 describes average annual rates of change for all physiotherapists in British Columbia.

#### 2. Age and Sex

Age and sex information on physiotherapists, derived from the registration database of the APMPBC, is shown in Table 4. Age information in the table is grouped according to standard age categories developed and used by Statistics Canada.

#### 3. Registration Status

A physiotherapist may be either a *Chartered* or *Registered* member of the APMPBC. Chartered Physiotherapists differ from Registered Physiotherapists in that Chartered Physiotherapists may not practise except under the supervision of a medical practitioner.<sup>2</sup> A physiotherapist may work under a temporary membership until his or her registration can be completed. In 1991, there were 97 physiotherapists who held temporary memberships. No temporary members are included in any of the tables. Remedial gymnasts may also register as members of the APMPBC, but are not included in the tables. Membership type is shown in Table 5.

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<sup>2</sup>*Physiotherapists Act*, 1979, RSBC Chap. 327, Part I, S.8.

#### 4. Type of Employing Institution

Table 6 displays type of principal employing institution for physiotherapists employed in PT or PT/OT as reported on the registration renewal form. The following categories are used:

- (a) Acute Care Hospital;
- (b) Workers' Compensation Board;
- (c) Children's Hospital;
- (d) Community Health Centre;
- (e) Non-Profit Agency;
- (f) Diagnostic and Treatment Centre;
- (g) Centre for Mentally Handicapped;
- (h) Continuing Care;
- (i) Extended Care;
- (j) Psychiatric Hospital;
- (k) Rehabilitation Hospital;
- (l) School Board;
- (m) University or College;
- (n) Industry;
- (o) Private Practice;
- (p) Other.

#### 5. Patient Care Activity

Principal patient care activity as reported on the registration renewal form for physiotherapists employed in PT or PT/OT is shown in Table 7. The categories used in the table are:

- (a) Intensive Care;
- (b) Orthopaedics;
- (c) Rheumatology;
- (d) General;
- (e) Sports Medicine;
- (f) Geriatrics;
- (g) Paediatrics;
- (h) Burns and Plastics;
- (i) Rehabilitation;
- (j) Cardio - Respiratory;
- (k) Neurology;
- (l) Palliative Chronic Care;
- (m) Psychiatric;
- (n) Mentally Handicapped;
- (o) Preventive/Health Education;
- (p) Obstetrics and Gynaecology;
- (q) Not involved in patient care;
- (r) Other.



## 6. Type of Position

Principal type of position as reported on the registration renewal form for physiotherapists employed in PT or PT/OT is reported in Table 8 using the following categories:

- (a) Staff Therapist;
- (b) Sole Charge;
- (c) Program Co-ordinator;
- (d) Senior Therapist;
- (e) Clinical Instructor;
- (f) Research Therapist;
- (g) Director;
- (h) Assistant Director;
- (i) Consultant;
- (j) Owner/Partner - Private Practice;
- (k) Associate - Private Practice;
- (l) Other.

## 7. Analysis of Change

Table 9 illustrates key sources of change which may have affected the stock of practising physiotherapists from 1989 to 1991.

*New registrants* include all physiotherapists who were practising members as of December 1991 and who registered with the APMPBC *for the first time* subsequent to December 1989. New registrants are recorded according to their place of graduation, i.e., from B.C., Other Canadian Provinces (O.Can.) or Other.

*Re-activations* (Re-Act) represent those physiotherapists who did not renew practising membership in December 1989 but were practising members in B.C. in December 1991, and whose date of initial registration was before December 1989.

*Attrition* (Attr'n) describes those physiotherapists who were included in the 1989 physiotherapist stock, but who, because of death, retirement, out-of-province relocation or non-renewal of registration, were not included in the 1991 stock.

*Migration* (Migr'n) describes the net effect of intraprovincial migration; it records the flow of physiotherapists among different Regional Hospital Districts. The net migration total is therefore zero.

**Physiotherapists (Full Members)  
Employed in Physiotherapy and/or Occupational Therapy  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=1434**

390

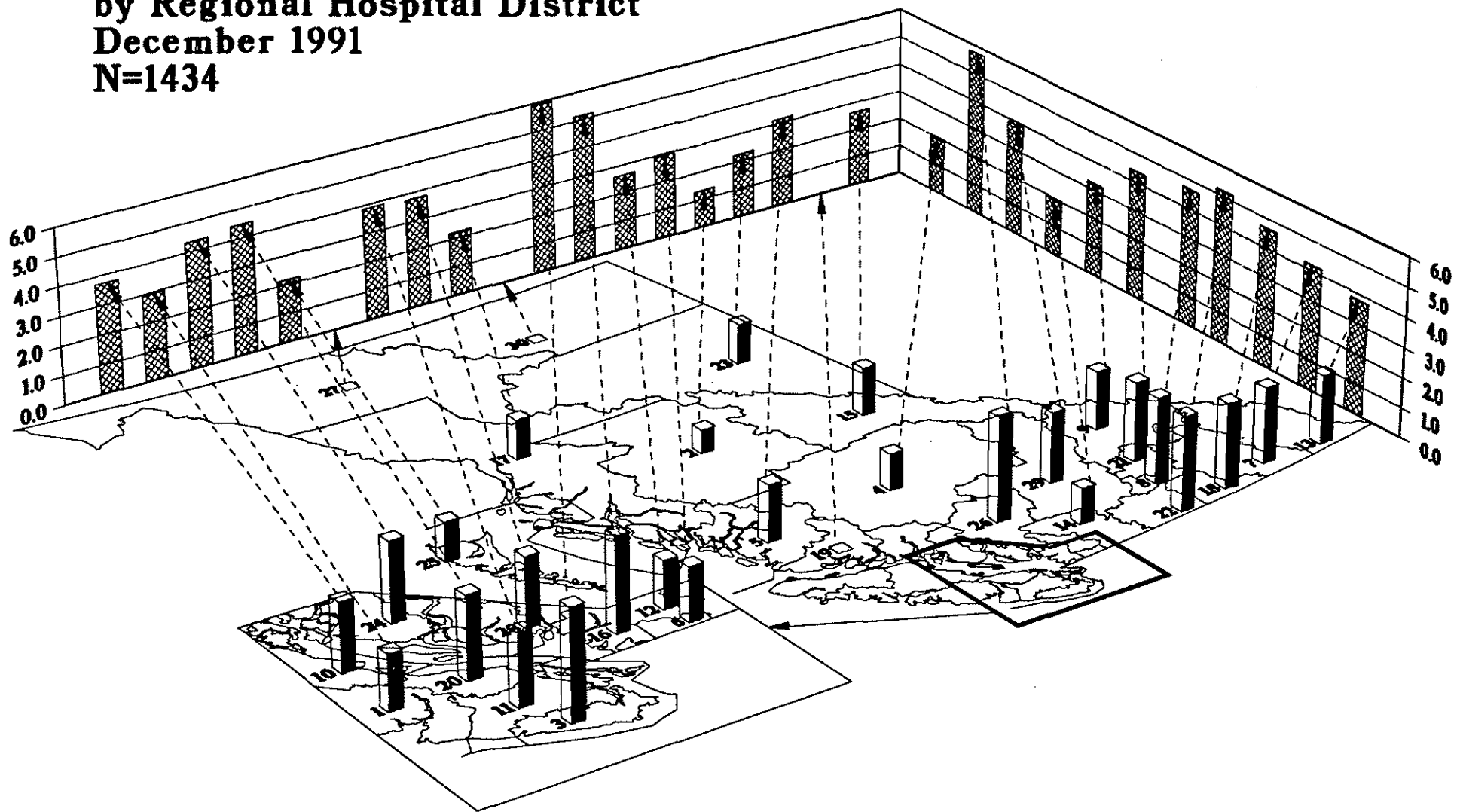


Table 1

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Employment Status**  
**December 1989 and December 1991**

Regional Hospital District	Employed					Employed Other <sup>1</sup>	Not Employed	Unknown	Total	
	PT		OT/PT	Subtotal					1989	1991
	1989	1991	1991 <sup>2</sup>	1989	1991					
Non-Metropolitan - Subtotal	384	449	22	400	471	5	23	52	505	551
1 Alberni-Clayoquot	7	9	0	7	9	0	0	1	7	10
2 Bulkley-Nechako	5	5	0	5	5	2	0	2	8	9
4 Cariboo	11	11	1	12	12	0	1	3	16	16
5 Central Coast	0	0	1	0	1	0	0	0	1	1
6 Central Fraser Valley	19	25	0	19	25	0	0	1	21	26
7 Central Kootenay	15	21	0	15	21	1	0	3	17	25
8 Central Okanagan	40	47	2	40	49	0	4	3	50	56
9 Columbia-Shuswap	11	13	0	11	13	0	1	2	14	16
10 Comox-Strathcona	25	30	0	25	30	0	2	4	33	36
11 Cowichan Valley	20	21	1	20	22	0	3	2	24	27
12 Dewdney-Alouette	19	24	0	20	24	0	1	1	24	26
13 East Kootenay	14	17	1	15	18	0	1	1	18	20
14 Fraser-Cheam	13	11	2	14	13	0	0	1	17	14
15 Fraser-Fort George	15	21	2	17	23	0	0	2	26	25
17 Kitimat-Stikine	5	6	3	8	9	0	0	0	10	9
18 Kootenay Boundary	10	14	0	10	14	0	0	4	14	18
19 Mount Waddington	1	0	0	1	0	0	0	1	1	1
20 Nanaimo	36	41	1	37	42	0	3	2	49	47
21 North Okanagan	21	23	2	22	25	1	3	5	27	34
22 Okanagan-Similkameen	25	32	1	26	33	1	0	4	34	38
23 Peace River	10	10	1	13	11	0	2	0	14	13
24 Powell River	6	7	1	7	8	0	0	2	7	10
25 Skeena-Queen Charlotte	5	5	0	5	5	0	0	0	5	5
26 Squamish-Lillooet	12	13	0	12	13	0	0	3	16	16
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	8	5	2	8	7	0	2	2	14	11
29 Thompson-Nicola	31	38	1	31	39	0	0	3	38	42
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0
Metropolitan - Subtotal	758	924	39	787	963	26	46	127	1,044	1,162
3 Capital	135	164	12	145	176	7	7	15	189	205
16 Greater Vancouver	623	760	27	642	787	19	39	112	855	957
TOTAL	1,142	1,373	61	1,187	1,434	31	69	179	1,549	1,713

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 3 physiotherapists employed in OT only and 58 in combined OT/PT.

<sup>3</sup>Includes 23 physiotherapists employed in other health care fields and 8 in non-health care fields.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

Table 2

Physiotherapists<sup>1</sup> in British Columbia

per 10,000 population by Regional Hospital District by Employment Status

December 1989<sup>2</sup> and December 1991

Regional Hospital District	Employed					Employed Other <sup>4</sup>	Not Employed	Unknown	Total	
	PT		OT/PT	Subtotal					1989	1991
	1989	1991	1991 <sup>1</sup>	1989	1991					
<b>Non-Metropolitan - Subtotal</b>	<b>2.90</b>	<b>3.26</b>	<b>0.16</b>	<b>3.02</b>	<b>3.42</b>	<b>0.04</b>	<b>0.17</b>	<b>0.38</b>	<b>3.81</b>	<b>4.00</b>
1 Alberni-Clayoquot	2.34	2.97	0.00	2.34	2.97	0.00	0.00	0.33	2.34	3.30
2 Bulkley-Nechako	1.35	1.32	0.00	1.35	1.32	0.53	0.00	0.53	2.16	2.37
4 Cariboo	1.89	1.85	0.17	2.06	2.02	0.00	0.17	0.50	2.74	2.69
5 Central Coast	0.00	0.00	3.14	0.00	3.14	0.00	0.00	0.00	3.13	3.14
6 Central Fraser Valley	2.48	2.94	0.00	2.48	2.94	0.00	0.00	0.12	2.74	3.06
7 Central Kootenay	3.09	4.19	0.00	3.09	4.19	0.20	0.00	0.60	3.50	4.98
8 Central Okanagan	4.09	4.50	0.19	4.09	4.69	0.00	0.38	0.29	5.11	5.36
9 Columbia-Shuswap	2.77	3.25	0.00	2.77	3.25	0.00	0.25	0.50	3.53	4.00
10 Comox-Strathcona	3.27	3.72	0.00	3.27	3.72	0.00	0.25	0.50	4.32	4.46
11 Cowichan Valley	3.62	3.70	0.18	3.62	3.87	0.00	0.53	0.35	4.35	4.76
12 Dewdney-Alouette	2.31	2.64	0.00	2.43	2.64	0.00	0.11	0.11	2.92	2.86
13 East Kootenay	2.88	3.59	0.21	3.08	3.80	0.00	0.21	0.21	3.70	4.22
14 Fraser-Cheam	2.07	1.66	0.30	2.22	1.96	0.00	0.00	0.15	2.70	2.11
15 Fraser-Fort George	1.74	2.42	0.23	1.97	2.65	0.00	0.00	0.23	3.01	2.88
17 Kitimat-Stikine	1.28	1.48	0.74	2.04	2.22	0.00	0.00	0.00	2.55	2.22
18 Kootenay Boundary	3.35	4.67	0.00	3.35	4.67	0.00	0.00	1.33	4.69	6.00
19 Mount Waddington	0.70	0.00	0.00	0.70	0.00	0.00	0.00	0.71	0.70	0.71
20 Nanaimo	4.08	4.37	0.11	4.19	4.47	0.00	0.32	0.21	5.55	5.01
21 North Okanagan	3.74	4.03	0.35	3.92	4.38	0.18	0.53	0.88	4.81	5.96
22 Okanagan-Similkameen	4.04	5.04	0.16	4.20	5.19	0.16	0.00	0.63	5.49	5.98
23 Peace River	2.03	2.04	0.20	2.63	2.25	0.00	0.41	0.00	2.84	2.65
24 Powell River	3.30	3.81	0.54	3.85	4.35	0.00	0.00	1.09	3.85	5.44
25 Skeena-Queen Charlotte	2.18	2.16	0.00	2.18	2.16	0.00	0.00	0.00	2.18	2.16
26 Squamish-Lillooet	5.60	5.75	0.00	5.60	5.75	0.00	0.00	1.33	7.47	7.07
27 Stikine	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28 Sunshine Coast	4.48	2.71	1.08	4.48	3.79	0.00	1.08	1.08	7.83	5.95
29 Thompson-Nicola	3.17	3.80	0.10	3.17	3.90	0.00	0.00	0.30	3.88	4.21
30 Fort Nelson/Liard	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>4.39</b>	<b>5.06</b>	<b>0.21</b>	<b>4.56</b>	<b>5.27</b>	<b>0.14</b>	<b>0.25</b>	<b>0.70</b>	<b>6.04</b>	<b>6.36</b>
3 Capital	4.77	5.51	0.40	5.12	5.92	0.24	0.24	0.50	6.68	6.89
16 Greater Vancouver	4.31	4.97	0.18	4.45	5.15	0.12	0.26	0.73	5.92	6.26
<b>TOTAL</b>	<b>3.74</b>	<b>4.29</b>	<b>0.19</b>	<b>3.89</b>	<b>4.48</b>	<b>0.10</b>	<b>0.22</b>	<b>0.56</b>	<b>5.07</b>	<b>5.35</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>These figures differ from the corresponding figures appearing in ROLLCALL 89. See Foreword.<sup>3</sup>Includes 3 physiotherapists employed in OT only and 58 in combined OT/PT.<sup>4</sup>Includes 23 physiotherapists employed in other health care fields, and 8 in non-health care fields.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

Table 3

**Average Annual Rate of Change: Physiotherapists<sup>1</sup>**  
**in British Columbia by Regional Hospital District by Employment Status**  
**December 1989 to December 1991**

Regional Hospital District	Employed in PT		Subtotal <sup>2</sup>		Not Employed in OT/PT <sup>3</sup>		Unknown		Total	
	Number <sup>4</sup>	Ratio <sup>5</sup>	Number <sup>4</sup>	Ratio <sup>5</sup>	Number <sup>4</sup>	Ratio <sup>5</sup>	Number <sup>4</sup>	Ratio <sup>5</sup>	Number <sup>4</sup>	Ratio <sup>5</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>8.13</b>	<b>6.15</b>	<b>8.51</b>	<b>6.52</b>	<b>-13.01</b>	<b>-14.60</b>	<b>-12.55</b>	<b>-14.16</b>	<b>4.46</b>	<b>2.54</b>
1 Alberni-Clayoquot	*	*	*	*	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	*	*	*	*	*	*
4 Cariboo	0.00	-0.94	0.00	-0.94	*	*	*	*	0.00	-0.94
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	14.71	8.81	14.71	8.81	*	*	*	*	11.27	5.55
7 Central Kootenay	18.32	16.34	18.32	16.34	*	*	*	*	21.27	19.24
8 Central Okanagan	8.40	4.88	10.68	7.09	*	*	*	*	5.83	2.40
9 Columbia-Shuswap	8.71	8.29	8.71	8.29	*	*	*	*	6.90	6.49
10 Comox-Strathcona	9.54	6.62	9.54	6.62	*	*	*	*	4.45	1.66
11 Cowichan Valley	2.47	1.03	4.88	3.40	*	*	*	*	6.07	4.57
12 Dewdney-Alouette	12.39	6.86	9.54	4.16	*	*	*	*	4.08	-1.03
13 East Kootenay	10.19	11.63	9.54	10.97	*	*	*	*	5.41	6.78
14 Fraser-Cheam	-8.01	-10.41	-3.64	-6.14	*	*	*	*	-9.25	-11.61
15 Fraser-Fort George	18.32	17.85	16.32	15.85	*	*	*	*	-1.94	-2.33
17 Kitimat-Stikine	*	*	*	*	*	*	*	*	-5.13	-6.69
18 Kootenay Boundary	18.32	17.99	18.32	17.99	*	*	*	*	13.39	13.07
19 Mount Waddington	*	*	*	*	*	*	*	*	*	*
20 Nanaimo	6.72	3.51	6.54	3.34	*	*	*	*	-2.06	-5.00
21 North Okanagan	4.65	3.83	6.60	5.76	*	*	*	*	12.22	11.33
22 Okanagan-Similkameen	13.14	11.69	12.66	11.21	*	*	*	*	5.72	4.36
23 Peace River	0.00	0.38	-8.01	-7.66	*	*	*	*	-3.64	-3.27
24 Powell River	*	*	*	*	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	4.08	1.29	4.08	1.29	*	*	*	*	0.00	-2.69
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	*	*	-11.36	-12.82
29 Thompson-Nicola	10.72	9.62	12.16	11.05	*	*	*	*	5.13	4.09
30 Fort Nelson/Liard	*	*	*	*	*	*	*	*	*	*
<b>Metropolitan - Subtotal</b>	<b>10.41</b>	<b>7.35</b>	<b>10.62</b>	<b>7.55</b>	<b>-17.19</b>	<b>-19.49</b>	<b>-8.59</b>	<b>-11.13</b>	<b>5.50</b>	<b>2.58</b>
3 Capital	10.22	7.51	10.17	7.46	3.77	1.22	-30.44	-32.15	4.15	1.59
16 Greater Vancouver	10.45	7.32	10.72	7.58	-20.60	-22.85	-3.79	-6.52	5.80	2.80
<b>TOTAL</b>	<b>9.65</b>	<b>7.05</b>	<b>9.91</b>	<b>7.31</b>	<b>-16.08</b>	<b>-18.07</b>	<b>-9.80</b>	<b>-11.93</b>	<b>5.16</b>	<b>2.67</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 3 physiotherapists employed in OT and 58 in combined OT/PT.

<sup>3</sup>Includes 23 physiotherapists employed in other health care fields, 8 in non-health care fields, and 69 unemployed.

<sup>4</sup>Rate of change (in percent) in the number.

<sup>5</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

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Table 4

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Regional Hospital District by Age and Sex**  
**December 1991**

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Unknown		Subtotal		Total <sup>2</sup>
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>10</b>	<b>18</b>	<b>103</b>	<b>35</b>	<b>199</b>	<b>16</b>	<b>99</b>	<b>5</b>	<b>18</b>	<b>2</b>	<b>6</b>	<b>6</b>	<b>33</b>	<b>82</b>	<b>468</b>	<b>551</b>
1 Alberni-Clayoquot	0	0	0	2	1	1	0	5	0	0	0	0	0	1	1	9	10
2 Bulkley-Nechako	0	1	0	3	0	3	0	1	0	0	0	0	0	1	0	9	9
4 Cariboo	0	0	1	3	0	7	0	3	0	0	0	0	0	2	1	15	16
5 Central Coast	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1
6 Central Fraser Valley	0	0	1	3	2	12	2	3	0	1	0	0	1	1	6	20	26
7 Central Kootenay	0	1	0	9	1	6	1	5	0	1	0	0	0	1	2	23	25
8 Central Okanagan	0	1	5	9	5	19	1	8	2	1	1	0	0	4	14	42	56
9 Columbia-Shuswap	0	1	0	2	1	7	0	4	0	0	0	0	0	1	1	15	16
10 Comox-Strathcona	0	0	1	9	3	15	1	4	0	1	0	0	0	2	5	31	36
11 Cowichan Valley	0	0	0	3	0	12	2	4	1	1	1	0	1	2	5	22	27
12 Dewdney-Alouette	0	0	1	3	0	10	1	5	0	3	0	2	0	1	2	24	26
13 East Kootenay	0	0	2	2	1	9	1	4	0	0	0	0	0	1	4	16	20
14 Fraser-Cheam	0	0	1	2	1	6	1	3	0	0	0	0	0	0	3	11	14
15 Fraser-Fort George	0	0	1	5	0	11	0	4	0	0	0	0	0	3	1	23	25
17 Kitimat-Stikine	0	0	0	3	0	4	0	1	0	1	0	0	0	0	0	9	9
18 Kootenay Boundary	0	0	0	5	3	6	0	1	0	1	0	0	0	2	3	15	18
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
20 Nanaimo	0	3	0	5	2	18	3	11	1	1	0	1	1	1	7	40	47
21 North Okanagan	0	1	0	6	5	10	2	6	0	1	0	1	1	1	8	26	34
22 Okanagan-Similkameen	0	0	3	7	1	16	1	4	1	2	0	0	0	3	6	32	38
23 Peace River	0	1	1	2	0	6	0	2	0	1	0	0	0	0	1	12	13
24 Powell River	0	1	1	1	1	1	0	2	0	1	0	0	0	2	2	8	10
25 Skeena-Queen Charlotte	0	0	0	0	0	2	0	3	0	0	0	0	0	0	0	5	5
26 Squamish-Lillooet	0	0	0	10	0	2	0	3	0	0	0	0	1	0	1	15	16
27 Stikine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	5	0	2	0	1	0	2	0	1	0	11	11
29 Thompson-Nicola	0	0	0	9	8	10	0	11	0	1	0	0	1	2	9	33	42
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>5</b>	<b>21</b>	<b>57</b>	<b>275</b>	<b>45</b>	<b>351</b>	<b>20</b>	<b>189</b>	<b>12</b>	<b>67</b>	<b>3</b>	<b>11</b>	<b>16</b>	<b>90</b>	<b>158</b>	<b>1,004</b>	<b>1,162</b>
3 Capital	0	2	8	39	7	61	4	39	5	22	0	0	3	15	27	178	205
16 Greater Vancouver	5	19	49	236	38	290	16	150	7	45	3	11	13	75	131	826	957
<b>TOTAL</b>	<b>5</b>	<b>31</b>	<b>75</b>	<b>378</b>	<b>80</b>	<b>550</b>	<b>36</b>	<b>288</b>	<b>17</b>	<b>85</b>	<b>5</b>	<b>17</b>	<b>22</b>	<b>123</b>	<b>240</b>	<b>1,472</b>	<b>1,713</b>

<sup>1</sup>Definitions are as in the attached text.<sup>2</sup>Includes 1 physiotherapist with incomplete sex information.

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Table 5

Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia

by Regional Hospital District by Membership Type

December 1991

Regional Hospital District	Number			Number per 10,000 Population		
	Chartered	Registered	Total	Chartered	Registered	Total
<b>Non-Metropolitan - Subtotal</b>	<b>325</b>	<b>146</b>	<b>471</b>	<b>2.36</b>	<b>1.06</b>	<b>3.42</b>
1 Alberni-Clayoquot	5	4	9	1.65	1.32	2.97
2 Bulkley-Nechako	4	1	5	1.06	0.26	1.32
4 Cariboo	11	1	12	1.85	0.17	2.02
5 Central Coast	1	0	1	3.14	0.00	3.14
6 Central Fraser Valley	15	10	25	1.76	1.18	2.94
7 Central Kootenay	14	7	21	2.79	1.40	4.19
8 Central Okanagan	33	16	49	3.16	1.53	4.69
9 Columbia-Shuswap	7	6	13	1.75	1.50	3.25
10 Comox-Strathcona	19	11	30	2.36	1.36	3.72
11 Cowichan Valley	11	11	22	1.94	1.94	3.87
12 Dewdney-Alouette	18	6	24	1.98	0.66	2.64
13 East Kootenay	15	3	18	3.16	0.63	3.80
14 Fraser-Cheam	11	2	13	1.66	0.30	1.96
15 Fraser-Fort George	16	7	23	1.84	0.81	2.65
17 Kitimat-Stikine	9	0	9	2.22	0.00	2.22
18 Kootenay Boundary	12	2	14	4.00	0.67	4.67
19 Mount Waddington	0	0	0	0.00	0.00	0.00
20 Nanaimo	29	13	42	3.09	1.38	4.47
21 North Okanagan	18	7	25	3.15	1.23	4.38
22 Okanagan-Similkameen	18	15	33	2.83	2.36	5.19
23 Peace River	9	2	11	1.84	0.41	2.25
24 Powell River	5	3	8	2.72	1.63	4.35
25 Skeena-Queen Charlotte	5	0	5	2.16	0.00	2.16
26 Squamish-Lillooet	3	10	13	1.33	4.42	5.75
27 Stikine	0	0	0	0.00	0.00	0.00
28 Sunshine Coast	6	1	7	3.25	0.54	3.79
29 Thompson-Nicola	31	8	39	3.10	0.80	3.90
30 Fort Nelson/Liard	0	0	0	0.00	0.00	0.00
<b>Metropolitan - Subtotal</b>	<b>675</b>	<b>288</b>	<b>963</b>	<b>3.69</b>	<b>1.58</b>	<b>5.27</b>
3 Capital	113	63	176	3.80	2.12	5.92
16 Greater Vancouver	562	225	787	3.67	1.47	5.15
<b>TOTAL</b>	<b>1,000</b>	<b>434</b>	<b>1,434</b>	<b>3.12</b>	<b>1.35</b>	<b>4.48</b>

<sup>1</sup>Definitions are as in the attached text.

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Table 6

Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia

by Regional Hospital District by Type of Principal Employing Institution

December 1991

Regional Hospital District	Acute Care Hospital	Workers' Comp. Board	Children's Hospital	Community Health Centre	Non- Profit Agency	Diag. & Treatment Centre	Centre for Mentally Handicapped	Continuing Care
<b>Non-Metropolitan - Subtotal</b>	<b>217</b>	<b>1</b>	<b>0</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>0</b>	<b>16</b>
1 Alberni-Clayoquot	5	0	0	0	0	0	0	0
2 Bulkley-Nechako	2	0	0	0	0	1	0	1
4 Cariboo	6	0	0	0	0	0	0	0
5 Central Coast	1	0	0	0	0	0	0	0
6 Central Fraser Valley	6	1	0	1	0	1	0	1
7 Central Kootenay	14	0	0	0	0	0	0	0
8 Central Okanagan	22	0	0	1	2	0	0	1
9 Columbia-Shuswap	8	0	0	0	0	0	0	0
10 Comox-Strathcona	12	0	0	2	0	1	0	2
11 Cowichan Valley	9	0	0	1	2	0	0	1
12 Dewdney-Alouette	7	0	0	0	0	1	0	0
13 East Kootenay	12	0	0	0	1	1	0	1
14 Fraser-Cheam	4	0	0	0	0	0	0	0
15 Fraser-Fort George	10	0	0	1	1	2	0	0
17 Kitimat-Stikine	6	0	0	0	0	0	0	0
18 Kootenay Boundary	7	0	0	0	0	1	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	19	0	0	2	1	2	0	3
21 North Okanagan	13	0	0	0	0	1	0	1
22 Okanagan-Similkameen	14	0	0	0	2	0	0	2
23 Peace River	8	0	0	0	1	1	0	0
24 Powell River	4	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	3	0	0	0	0	0	0	0
26 Squamish-Lillooet	1	0	0	0	0	2	0	1
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	0	1	0	0	0	1
29 Thompson-Nicola	23	0	0	1	0	0	0	1
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>325</b>	<b>30</b>	<b>32</b>	<b>23</b>	<b>25</b>	<b>12</b>	<b>2</b>	<b>43</b>
3 Capital	51	0	5	6	6	5	1	9
16 Greater Vancouver	274	30	27	17	19	7	1	34
<b>TOTAL</b>	<b>542</b>	<b>31</b>	<b>32</b>	<b>33</b>	<b>35</b>	<b>26</b>	<b>2</b>	<b>59</b>

<sup>1</sup>Definitions are as in the attached text.

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... continued



Table 6  
(Continued)

**Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia**  
by Regional Hospital District by Type of Principal Employing Institution  
December 1991

Regional Hospital District	Extended Care	Psych. Hospital	Rehab. Hospital	School Board	University/ College	Industry	Private Practice	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>13</b>	<b>2</b>	<b>3</b>	<b>11</b>	<b>0</b>	<b>0</b>	<b>155</b>	<b>19</b>	<b>471</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	4	0	9
2 Bulkley-Nechako	0	0	0	0	0	0	1	0	5
4 Cariboo	1	0	0	0	0	0	4	1	12
5 Central Coast	0	0	0	0	0	0	0	0	1
6 Central Fraser Valley	1	0	0	0	0	0	14	0	25
7 Central Kootenay	1	0	0	0	0	0	6	0	21
8 Central Okanagan	3	0	0	2	0	0	17	1	49
9 Columbia-Shuswap	0	0	0	0	0	0	5	0	13
10 Comox-Strathcona	0	0	1	2	0	0	8	2	30
11 Cowichan Valley	0	0	1	1	0	0	7	0	22
12 Dewdney-Alouette	1	2	0	0	0	0	10	3	24
13 East Kootenay	0	0	0	0	0	0	1	2	18
14 Fraser-Cheam	1	0	0	1	0	0	6	1	13
15 Fraser-Fort George	1	0	0	0	0	0	6	2	23
17 Kitimat-Stikine	0	0	0	0	0	0	2	1	9
18 Kootenay Boundary	0	0	1	1	0	0	3	1	14
19 Mount Waddington	0	0	0	0	0	0	0	0	0
20 Nanaimo	1	0	0	0	0	0	13	1	42
21 North Okanagan	1	0	0	0	0	0	9	0	25
22 Okanagan-Similkameen	1	0	0	0	0	0	11	3	33
23 Peace River	0	0	0	1	0	0	0	0	11
24 Powell River	0	0	0	1	0	0	3	0	8
25 Skeena-Queen Charlotte	0	0	0	0	0	0	2	0	5
26 Squamish-Lillooet	0	0	0	0	0	0	9	0	13
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	4	0	7
29 Thompson-Nicola	1	0	0	2	0	0	10	1	39
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>33</b>	<b>1</b>	<b>77</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>317</b>	<b>30</b>	<b>963</b>
3 Capital	10	0	14	0	1	0	58	10	176
16 Greater Vancouver	23	1	63	1	10	1	259	20	787
<b>TOTAL</b>	<b>46</b>	<b>3</b>	<b>80</b>	<b>12</b>	<b>11</b>	<b>1</b>	<b>472</b>	<b>49</b>	<b>1,434</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 9 physiotherapists who did not provide information.

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Table 7

Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia

by Regional Hospital District by Principal Patient Care Activity

December 1991

Regional Hospital District	Intensive Care	Ortho- paedics	Rheuma- tology	General	Sports Medicine	Geri- atrics	Paedi- atrics	Burns and Plastics	Rehabil- itation	398
<b>Non-Metropolitan - Subtotal</b>	<b>6</b>	<b>148</b>	<b>11</b>	<b>190</b>	<b>8</b>	<b>23</b>	<b>35</b>	<b>0</b>	<b>18</b>	
1 Alberni-Clayoquot	0	3	0	6	0	0	0	0	0	
2 Bulkley-Nechako	0	0	0	4	0	1	0	0	0	
4 Cariboo	0	4	0	6	0	1	1	0	0	
5 Central Coast	0	0	0	1	0	0	0	0	0	
6 Central Fraser Valley	0	13	0	6	1	2	1	0	1	
7 Central Kootenay	0	7	0	11	0	1	0	0	0	
8 Central Okanagan	1	19	2	9	1	4	3	0	7	
9 Columbia-Shuswap	0	4	0	9	0	0	0	0	0	
10 Comox-Strathcona	0	8	0	15	0	0	4	0	1	
11 Cowichan Valley	1	5	1	9	1	1	2	0	0	
12 Dewdney-Alouette	0	8	1	5	0	3	2	0	1	
13 East Kootenay	1	4	1	9	0	1	0	0	1	
14 Fraser-Cheam	0	5	0	6	0	0	1	0	0	
15 Fraser-Fort George	1	8	0	7	0	1	3	0	0	
17 Kitimat-Stikine	0	1	0	7	0	0	1	0	0	
18 Kootenay Boundary	0	3	0	6	0	0	4	0	1	
19 Mount Waddington	0	0	0	0	0	0	0	0	0	
20 Nanaimo	0	12	2	16	0	3	3	0	3	
21 North Okanagan	0	12	0	9	1	1	1	0	0	
22 Okanagan-Similkameen	0	7	3	17	0	2	1	0	1	
23 Peace River	0	2	0	7	0	0	2	0	0	
24 Powell River	0	1	0	4	0	1	1	0	0	
25 Skeena-Queen Charlotte	0	3	0	2	0	0	0	0	0	
26 Squamish-Lillooet	0	5	0	3	4	0	1	0	0	
27 Stikine	0	0	0	0	0	0	0	0	0	
28 Sunshine Coast	0	2	0	1	0	0	1	0	0	
29 Thompson-Nicola	2	12	1	15	0	1	3	0	2	
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	
<b>Metropolitan - Subtotal</b>	<b>25</b>	<b>316</b>	<b>33</b>	<b>206</b>	<b>17</b>	<b>77</b>	<b>66</b>	<b>3</b>	<b>74</b>	
3 Capital	4	57	6	34	4	27	15	0	5	
16 Greater Vancouver	21	259	27	172	13	50	51	3	69	
<b>TOTAL</b>	<b>31</b>	<b>464</b>	<b>44</b>	<b>396</b>	<b>25</b>	<b>100</b>	<b>101</b>	<b>3</b>	<b>92</b>	

<sup>1</sup>Definitions are as in the attached text.

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... continued

Table 7  
(Continued)

Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia  
by Regional Hospital District by Principal Patient Care Activity  
December 1991

Regional Hospital District	Cardio- Resp.	Neur- ology	Chronic Care	Psychi- atric	Mentally Handi- capped	Preventive/ Health Education	Obst. & Gynae.	Not in patient care	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>4</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>2</b>	<b>13</b>	<b>471</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0	0	9
2 Bulkley-Nechako	0	0	0	0	0	0	0	0	0	5
4 Cariboo	0	0	0	0	0	0	0	0	0	12
5 Central Coast	0	0	0	0	0	0	0	0	0	1
6 Central Fraser Valley	0	1	0	0	0	0	0	0	0	25
7 Central Kootenay	1	1	0	0	0	0	0	0	0	21
8 Central Okanagan	1	0	0	0	0	0	0	1	1	49
9 Columbia-Shuswap	0	0	0	0	0	0	0	0	0	13
10 Comox-Strathcona	0	0	0	0	0	0	0	1	1	30
11 Cowichan Valley	0	1	0	0	0	1	0	0	0	22
12 Dewdney-Alouette	1	0	0	1	0	0	0	0	2	24
13 East Kootenay	0	0	0	0	0	0	0	0	1	18
14 Fraser-Cheam	0	0	0	0	0	1	0	0	0	13
15 Fraser-Fort George	0	1	0	0	0	0	0	0	2	23
17 Kitimat-Stikine	0	0	0	0	0	0	0	0	0	9
18 Kootenay Boundary	0	0	0	0	0	0	0	0	0	14
19 Mount Waddington	0	0	0	0	0	0	0	0	0	0
20 Nanaimo	1	1	0	0	0	0	0	0	1	42
21 North Okanagan	0	0	0	0	0	1	0	0	0	25
22 Okanagan-Similkameen	0	0	1	0	0	0	0	0	1	33
23 Peace River	0	0	0	0	0	0	0	0	0	11
24 Powell River	0	0	0	0	0	0	0	0	1	8
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	0	0	5
26 Squamish-Lillooet	0	0	0	0	0	0	0	0	0	13
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	2	0	0	1	7
29 Thompson-Nicola	0	0	0	0	1	0	0	0	2	39
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>27</b>	<b>32</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>10</b>	<b>23</b>	<b>41</b>	<b>963</b>
3 Capital	5	6	0	0	1	0	0	5	7	176
16 Greater Vancouver	22	26	6	0	1	5	10	18	34	787
<b>TOTAL</b>	<b>31</b>	<b>37</b>	<b>7</b>	<b>1</b>	<b>3</b>	<b>10</b>	<b>10</b>	<b>25</b>	<b>54</b>	<b>1,434</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 20 physiotherapists who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 8

Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia

by Regional Hospital District by Principal Type of Position

December 1991

Regional Hospital District	Staff Therapist	Sole Charge	Program Co-ordinator	Senior Therapist	Clinical Instructor	Research Therapist	400
<b>Non-Metropolitan - Subtotal</b>	<b>190</b>	<b>57</b>	<b>2</b>	<b>27</b>	<b>0</b>	<b>0</b>	
1 Alberni-Clayoquot	4	0	0	0	0	0	
2 Bulkley-Nechako	2	2	0	0	0	0	
4 Cariboo	5	1	0	0	0	0	
5 Central Coast	0	1	0	0	0	0	
6 Central Fraser Valley	12	1	0	0	0	0	
7 Central Kootenay	7	5	0	2	0	0	
8 Central Okanagan	23	0	0	5	0	0	
9 Columbia-Shuswap	6	0	0	0	0	0	
10 Comox-Strathcona	13	6	1	0	0	0	
11 Cowichan Valley	5	5	0	1	0	0	
12 Dewdney-Alouette	8	2	0	3	0	0	
13 East Kootenay	8	5	0	0	0	0	
14 Fraser-Cheam	2	3	0	0	0	0	
15 Fraser-Fort George	15	0	0	1	0	0	
17 Kitimat-Stikine	4	2	0	0	0	0	
18 Kootenay Boundary	7	1	0	1	0	0	
19 Mount Waddington	0	0	0	0	0	0	
20 Nanaimo	17	4	1	4	0	0	
21 North Okanagan	10	4	0	2	0	0	
22 Okanagan-Similkameen	14	4	0	2	0	0	
23 Peace River	5	3	0	0	0	0	
24 Powell River	3	0	0	0	0	0	
25 Skeena-Queen Charlotte	2	1	0	0	0	0	
26 Squamish-Lillooet	2	2	0	0	0	0	
27 Stikine	0	0	0	0	0	0	
28 Sunshine Coast	1	2	0	0	0	0	
29 Thompson-Nicola	15	3	0	6	0	0	
30 Fort Nelson/Liard	0	0	0	0	0	0	
<b>Metropolitan - Subtotal</b>	<b>504</b>	<b>18</b>	<b>9</b>	<b>68</b>	<b>2</b>	<b>3</b>	
3 Capital	95	4	0	10	1	0	
16 Greater Vancouver	409	14	9	58	1	3	
<b>TOTAL</b>	<b>694</b>	<b>75</b>	<b>11</b>	<b>95</b>	<b>2</b>	<b>3</b>	

<sup>1</sup>Definitions are as in the attached text.

Prepared by:  
 Health Human Resources Unit  
 The University of British Columbia

... continued

Table 8  
(Continued)

**Physiotherapists<sup>1</sup> Employed in Physiotherapy and/or Occupational Therapy in British Columbia**  
by Regional Hospital District by Principal Type of Position  
December 1991

Regional Hospital District	Director	Assistant Director	Consultant	Private Practice		Other <sup>2</sup>	Total
				Owner/ Partner	Associate		
<b>Non-Metropolitan - Subtotal</b>	<b>36</b>	<b>2</b>	<b>10</b>	<b>98</b>	<b>38</b>	<b>11</b>	<b>471</b>
1 Alberni-Clayoquot	1	0	0	3	1	0	9
2 Bulkley-Nechako	0	0	0	1	0	0	5
4 Cariboo	3	0	0	1	2	0	12
5 Central Coast	0	0	0	0	0	0	1
6 Central Fraser Valley	1	0	0	7	4	0	25
7 Central Kootenay	2	0	0	4	1	0	21
8 Central Okanagan	3	0	3	10	5	0	49
9 Columbia-Shuswap	2	0	0	4	1	0	13
10 Comox-Strathcona	1	0	0	6	2	1	30
11 Cowichan Valley	3	0	1	7	0	0	22
12 Dewdney-Alouette	1	0	0	6	2	2	24
13 East Kootenay	3	0	0	1	0	1	18
14 Fraser-Cheam	2	0	1	4	1	0	13
15 Fraser-Fort George	2	0	0	3	1	1	23
17 Kitimat-Stikine	2	0	0	0	1	0	9
18 Kootenay Boundary	1	1	0	3	0	0	14
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	1	0	0	11	2	2	42
21 North Okanagan	1	0	1	5	2	0	25
22 Okanagan-Similkameen	2	0	0	4	5	2	33
23 Peace River	2	0	1	0	0	0	11
24 Powell River	1	0	1	2	0	1	8
25 Skeena-Queen Charlotte	0	0	0	2	0	0	5
26 Squamish-Lillooet	0	0	0	5	4	0	13
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	3	1	0	7
29 Thompson-Nicola	2	1	2	6	3	1	39
30 Fort Nelson/Liard	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>35</b>	<b>11</b>	<b>24</b>	<b>175</b>	<b>82</b>	<b>32</b>	<b>963</b>
3 Capital	6	4	2	32	17	5	176
16 Greater Vancouver	29	7	22	143	65	27	787
<b>TOTAL</b>	<b>71</b>	<b>13</b>	<b>34</b>	<b>273</b>	<b>120</b>	<b>43</b>	<b>1,434</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Includes 14 physiotherapists who did not provide information.

Prepared by:  
Health Human Resources Unit  
The University of British Columbia

Table 9

Analysis of Change in the Number of Physiotherapists<sup>1</sup>  
in British Columbia by Regional Hospital District  
December 1989 to December 1991

Regional Hospital District	1989 <sup>3</sup>	New Registrants <sup>2</sup> by Place of Graduation				Re-Act <sup>5</sup>	Attr'n <sup>6</sup>	Migr'n <sup>7</sup>	1991 <sup>8</sup>
		B.C.	O.Can. <sup>4</sup>	Other <sup>4</sup>	Subtotal				
<b>Non-Metropolitan - Subtotal</b>	<b>505</b>	<b>11</b>	<b>25</b>	<b>46</b>	<b>82</b>	<b>7</b>	<b>58</b>	<b>15</b>	<b>551</b>
1 Alberni-Clayoquot	7	0	1	1	2	0	0	1	10
2 Bulkley-Nechako	8	0	0	4	4	0	2	-1	9
4 Cariboo	16	1	1	0	2	0	2	0	16
5 Central Coast	1	0	0	0	0	0	0	0	1
6 Central Fraser Valley	21	0	0	2	2	0	4	7	26
7 Central Kootenay	17	0	4	1	5	0	1	4	25
8 Central Okanagan	50	0	3	5	8	2	7	3	56
9 Columbia-Shuswap	14	0	1	3	4	0	2	0	16
10 Comox-Strathcona	33	0	4	1	5	1	5	2	36
11 Cowichan Valley	24	0	0	3	3	0	2	2	27
12 Dewdney-Alouette	24	0	1	1	2	2	1	-1	26
13 East Kootenay	18	0	0	1	1	1	1	1	20
14 Fraser-Cheam	17	0	0	1	1	0	3	-1	14
15 Fraser-Fort George	26	0	0	4	4	0	4	-1	25
17 Kitimat-Stikine	10	1	0	0	1	0	2	0	9
18 Kootenay Boundary	14	2	0	2	4	0	0	0	18
19 Mount Waddington	1	0	0	1	1	0	0	-1	1
20 Nanaimo	49	2	1	1	4	0	8	2	47
21 North Okanagan	27	2	2	4	8	0	2	1	34
22 Okanagan-Similkameen	34	1	1	1	3	0	0	1	38
23 Peace River	14	0	0	3	3	0	4	0	13
24 Powell River	7	1	1	2	4	0	1	0	10
25 Skeena-Queen Charlotte	5	0	0	0	0	0	0	0	5
26 Squamish-Lillooet	16	1	3	2	6	0	3	-3	16
27 Stikine	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	14	0	2	0	2	0	2	-3	11
29 Thompson-Nicola	38	0	0	3	3	1	2	2	42
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>1,044</b>	<b>35</b>	<b>54</b>	<b>140</b>	<b>229</b>	<b>12</b>	<b>108</b>	<b>-15</b>	<b>1,162</b>
3 Capital	189	6	16	9	31	3	22	4	205
16 Greater Vancouver	855	29	38	131	198	9	86	-19	957
<b>TOTAL</b>	<b>1,549</b>	<b>46</b>	<b>79</b>	<b>186</b>	<b>311</b>	<b>19</b>	<b>166</b>	<b>0</b>	<b>1,713</b>

<sup>1</sup>Definitions are as in the attached text.

<sup>2</sup>Physiotherapists who were practising members in Dec 1991 and whose date of initial registration was after Dec 1989.

<sup>3</sup>Number of physiotherapists as at Dec 1989.

<sup>4</sup>Other Canada. "Other" includes 70 physiotherapists who did not provide place of graduation.

<sup>5</sup>Physiotherapists who were practising members in Dec 1991 but not in Dec 1989 and who were registered for the first time before Dec 1989.

<sup>6</sup>Physiotherapists who were practising members in Dec 1989 but not in Dec 1991.

<sup>7</sup>Net effect of intraprovincial migration.

<sup>8</sup>Number of physiotherapists as at Dec 1991.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

## PROSTHETISTS AND ORTHOTISTS





## PROSTHETISTS AND ORTHOTISTS

**Definition:** A prosthetist

is a professional worker who can design, fabricate and fit appropriate appliances and devices designed to replace part of the human locomotor system.

An orthotist

is a professional worker who can design, fabricate and fit appropriate supports, braces, shoes, remedial appliances and devices designed to correct, develop, strengthen or support, and increase the physiological performance of the human locomotor system.<sup>1</sup>

**Governing Statute:** None.

**Governing Body:** None. Compulsory registration and/or licensure do not exist. Membership in the Canadian Board for Certification of Prosthetists and Orthotists is voluntary. However, membership is restricted to prosthetists and/or orthotists who pass a certification examination administered by the Board. Members may be certified as prosthetists (CP), orthotists (CO), or prosthetists/orthotists (CPO).

**Date of Record:** September 1989 and September 1991.

**Source of Data:** Canadian Association of Prosthetists and Orthotists.

### Preparation and Updating:

The table, derived from the membership registry of the Canadian Association of Prosthetists and Orthotists, includes certified prosthetists and orthotists who reported a British Columbia address at the date of record.

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<sup>1</sup>Adapted from information received from the Canadian Board for Certification of Prosthetists and Orthotists.

See also *Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, No. 3159-110, p.67, Ottawa: Employment and Immigration Canada.

**Prosthetists and Orthotists (Certified)  
per 10,000 Population  
by Regional Hospital District  
September 1991  
N=31**

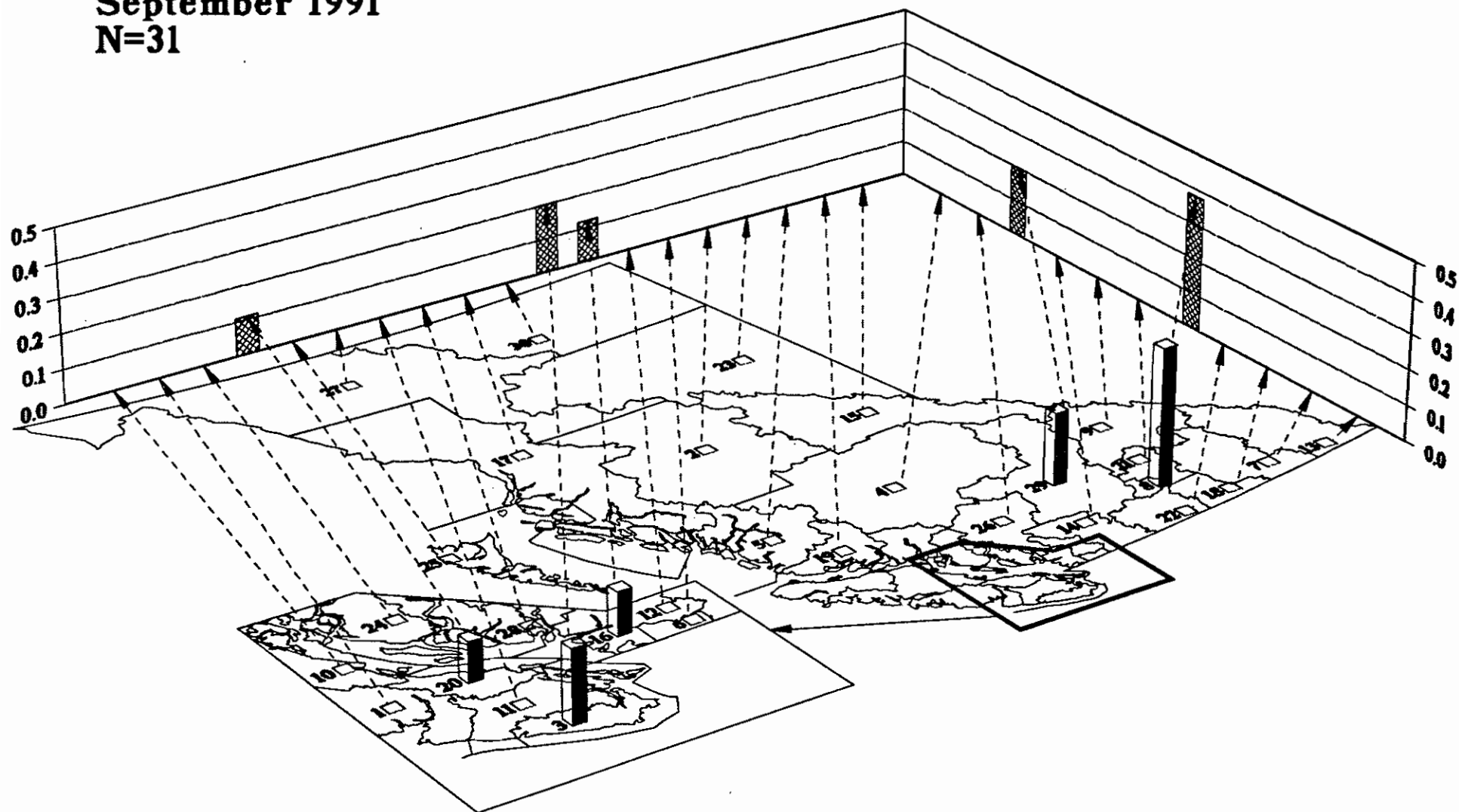


Table 1

Prosthetists and Orthotists (Certified)<sup>1</sup> in British Columbia

by Regional Hospital District by Specialty

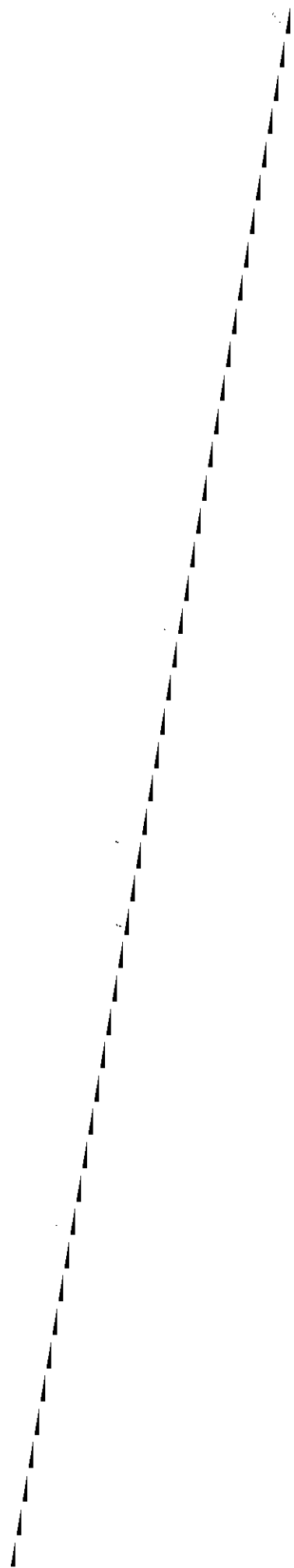
September 1989 and September 1991

Regional Hospital District	Prosthetists		Orthotists		Prosthetists/Orthotists		Total	
	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>5</b>	<b>7</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0	0	0
4 Cariboo	0	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	0	0
6 Central Fraser Valley	0	0	0	0	0	0	0	0
7 Central Kootenay	0	0	0	0	0	0	0	0
8 Central Okanagan	1	2	0	0	2	2	3	4
9 Columbia-Shuswap	0	0	0	0	0	0	0	0
10 Comox-Strathcona	0	0	0	0	0	0	0	0
11 Cowichan Valley	0	0	0	0	0	0	0	0
12 Dewdney-Alouette	0	0	0	0	0	0	0	0
13 East Kootenay	0	0	0	0	0	0	0	0
14 Fraser-Cheam	0	0	0	0	0	0	0	0
15 Fraser-Fort George	0	0	0	0	0	0	0	0
17 Kitimat-Stikine	0	0	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	0	1	0	0	0	0	0	1
21 North Okanagan	0	0	0	0	0	0	0	0
22 Okanagan-Similkameen	0	0	0	0	0	0	0	0
23 Peace River	0	0	0	0	0	0	0	0
24 Powell River	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	0
26 Squamish-Lillooet	0	0	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	0	0	0	0	0
29 Thompson-Nicola	0	0	1	1	1	1	2	2
30 Fort Nelson/Liard	0	0	0	0	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>8</b>	<b>8</b>	<b>16</b>	<b>11</b>	<b>4</b>	<b>5</b>	<b>28</b>	<b>24</b>
3 Capital	3	3	3	3	0	0	6	6
16 Greater Vancouver	5	5	13	8	4	5	22	18
<b>TOTAL</b>	<b>9</b>	<b>11</b>	<b>17</b>	<b>12</b>	<b>7</b>	<b>8</b>	<b>33</b>	<b>31</b>

<sup>1</sup>Definitions are as in the attached text.



## **APPENDICES**



**APPENDIX A**

**MAP OF REGIONAL HOSPITAL DISTRICTS**

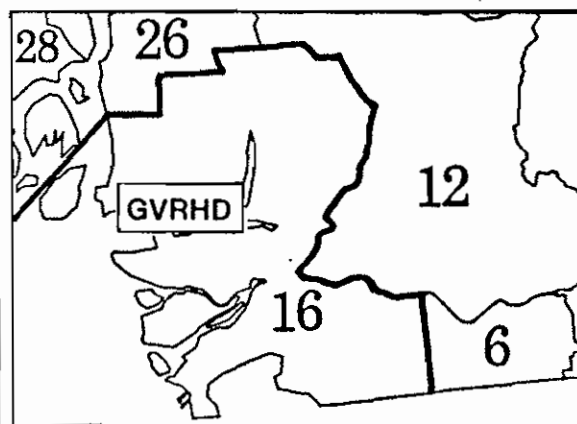
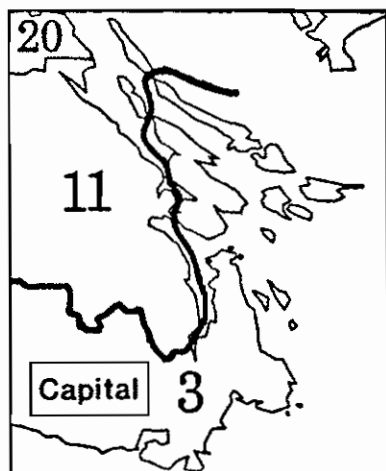




# HHRU Health Regions\*

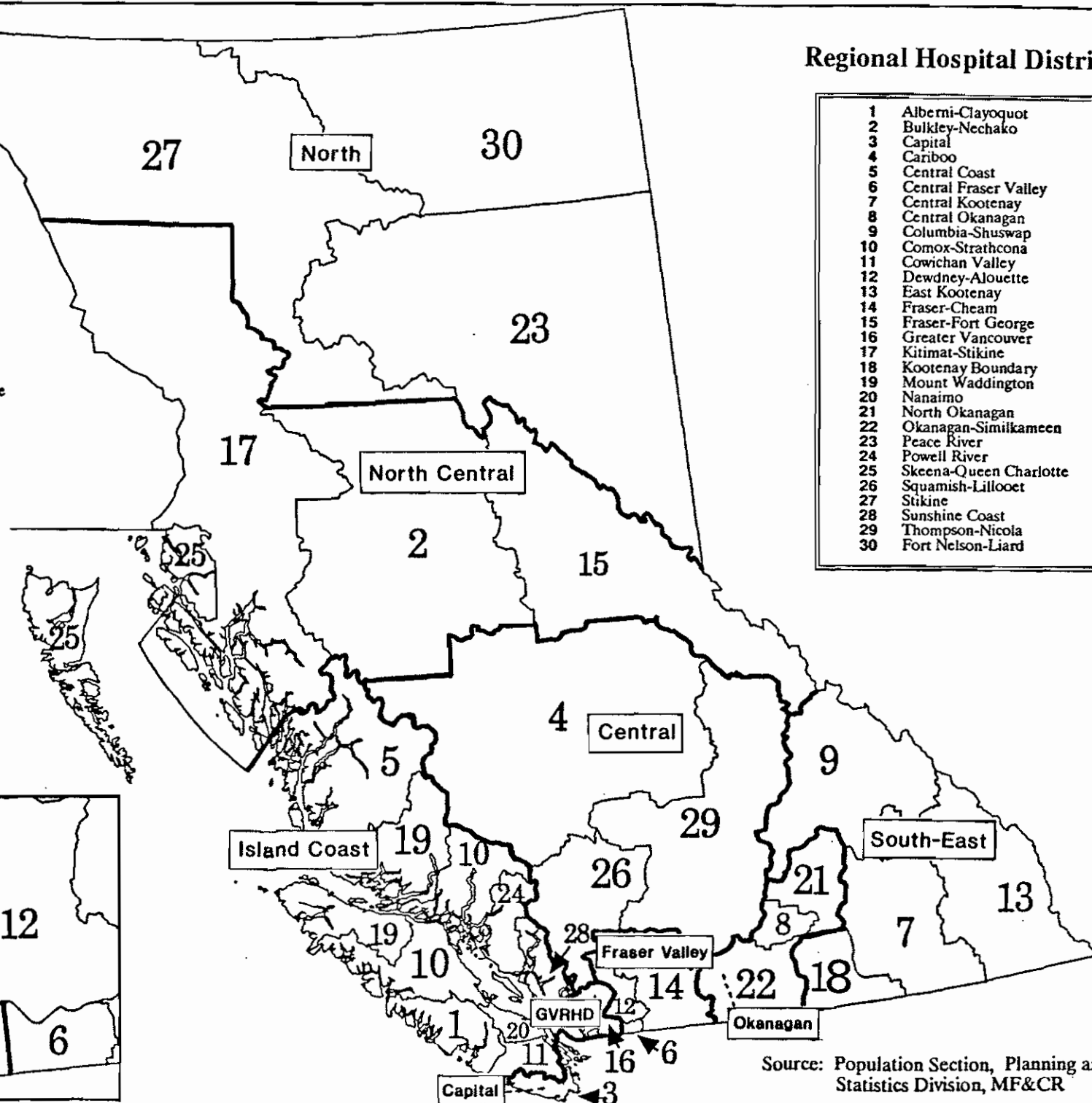
- 1 GVRHD
- 2 Capital
- 3 Fraser Valley
- 4 Okanagan
- 5 South-East
- 6 Island Coast
- 7 Central
- 8 North Central
- 9 North

\*Regional Hospital Districts have been arbitrarily grouped by the Health Human Resources Unit, U.B.C. in order to provide sufficient base for analysis of smaller personnel groups.



# Regional Hospital District

- 1 Alberni-Clayoquot
- 2 Bulkley-Nechako
- 3 Capital
- 4 Cariboo
- 5 Central Coast
- 6 Central Fraser Valley
- 7 Central Kootenay
- 8 Central Okanagan
- 9 Columbia-Shuswap
- 10 Comox-Strathcona
- 11 Cowichan Valley
- 12 Dewdney-Alouette
- 13 East Kootenay
- 14 Fraser-Cheam
- 15 Fraser-Fort George
- 16 Greater Vancouver
- 17 Kitimat-Stikine
- 18 Kootenay Boundary
- 19 Mount Waddington
- 20 Nanaimo
- 21 North Okanagan
- 22 Okanagan-Similkameen
- 23 Peace River
- 24 Powell River
- 25 Skeena-Queen Charlotte
- 26 Squamish-Lillooet
- 27 Stikine
- 28 Sunshine Coast
- 29 Thompson-Nicola
- 30 Fort Nelson-Liard



Source: Population Section, Planning and Statistics Division, MF&CR



**APPENDIX B**

**B.C. POPULATION BY  
REGIONAL HOSPITAL DISTRICT**



Table 1

Population Estimates<sup>1</sup> for British Columbia

## by Regional Hospital District

1989 and 1991

<b>Regional Hospital District</b>	<b>1989</b>	<b>1991</b>
<b>Non-Metropolitan - Subtotal</b>	<b>1,326,242</b>	<b>1,376,299</b>
1 Alberni-Clayoquot	29,947	30,319
2 Bulkley-Nechako	37,032	37,914
4 Cariboo	58,296	59,408
5 Central Coast	3,191	3,180
6 Central Fraser Valley	76,535	85,052
7 Central Kootenay	48,510	50,175
8 Central Okanagan	97,765	104,433
9 Columbia-Shuswap	39,651	39,957
10 Comox-Strathcona	76,416	80,669
11 Cowichan Valley	55,192	56,780
12 Dewdney-Alouette	82,330	91,065
13 East Kootenay	48,646	47,406
14 Fraser-Cheam	62,942	66,348
15 Fraser-Fort George	86,251	86,939
17 Kitimat-Stikine	39,198	40,516
18 Kootenay Boundary	29,825	29,995
19 Mount Waddington	14,196	14,167
20 Nanaimo	88,311	93,864
21 North Okanagan	56,191	57,086
22 Okanagan-Similkameen	61,921	63,541
23 Peace River	49,341	48,968
24 Powell River	18,185	18,374
25 Skeena-Queen Charlott	22,900	23,142
26 Squamish-Lillooet	21,427	22,627
27 Stikine	1,583	1,524
28 Sunshine Coast	17,870	18,472
29 Thompson-Nicola	97,903	99,876
30 Fort-Nelson	4,687	4,502
<b>Metropolitan - Subtotal</b>	<b>1,727,058</b>	<b>1,826,885</b>
3 Capital	283,036	297,478
16 Greater Vancouver	1,444,022	1,529,407
<b>TOTAL</b>	<b>3,053,300</b>	<b>3,203,184</b>

<sup>1</sup>Population estimates supplied by Population Sector, Planning and Statistics Division, Ministry of Finance and Corporate Relations are from the P.E.O.P.L.E. Projection Model - Projection #16.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

**Population Estimates (1) for British Columbia, Age and Sex Distribution  
by Regional Hospital District, 1991**

Regional Hospital District	Under 25		25-34		35-44		45-54		55-64		65+		Subtotals		Total
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
<b>Non-Metropolitan - Subtotal</b>	259162	245182	102288	102842	113190	107953	77652	72052	64692	60021	73671	97594	690655	685644	1376299
1 Alberni-Clayoquot	6014	5525	1988	2024	2538	2383	1895	1743	1631	1356	1376	1846	15442	14877	30319
2 Bulkley-Nechako	8344	7813	3299	3063	3457	2981	2092	1818	1530	1241	1016	1260	19738	18176	37914
4 Cariboo	12082	12182	4430	4287	5298	4901	3752	3148	2903	2296	1767	2362	30232	29176	59408
5 Central Coast	648	638	311	255	280	224	199	152	115	108	97	153	1650	1530	3180
6 Central Fraser Valley	16351	15825	7130	7156	6274	6210	4059	3944	3405	3528	4680	6490	41899	43153	85052
7 Central Kootenay	9095	8366	2890	2864	3785	3680	2777	2617	2556	2371	4022	5152	25125	25050	50175
8 Central Okanagan	17581	15977	6814	7329	7211	7949	5352	5792	5151	5845	8374	11058	50483	53950	104433
9 Columbia-Shuswap	7176	6727	2755	2641	3271	2981	2281	2080	2162	1881	2602	3400	20247	19710	39957
10 Comox-Strathcona	14567	14152	6435	6358	7159	6739	5030	4436	3989	3611	3476	4717	40656	40013	80669
11 Cowichan Valley	10209	10027	3679	3704	4394	4335	3227	3008	2840	2721	3701	4935	28050	28730	56780
12 Dewdney-Alouette	17372	16196	7631	7999	8597	7765	4872	4498	3908	3567	3692	4968	46072	44993	91065
13 East Kootenay	9256	8771	3333	3370	4290	4093	2806	2581	2132	1807	2132	2835	23949	23457	47406
14 Fraser-Cheam	12325	11397	5015	5186	4863	4504	3331	3217	3331	3179	4291	5709	33156	33192	66348
15 Fraser-Fort George	17687	17365	7514	7562	8144	7837	5518	4714	3733	2827	1740	2298	44336	42603	86939
17 Kitimat-Stikine	8881	8603	3404	3285	3677	3239	2518	2066	1745	1284	806	1008	21031	19485	40516
18 Kootenay Boundary	5357	4950	1820	1775	2261	2127	1634	1546	1538	1532	2345	3110	14955	15040	29995
19 Mount Waddington	2873	2845	1388	1252	1561	1289	965	732	501	331	172	258	7460	6707	14167
20 Nanaimo	15900	14690	6196	6650	7265	7391	5026	4910	4658	4885	6983	9310	46028	47836	93864
21 North Okanagan	10621	9882	3433	3609	4048	4203	3236	3256	2746	2674	4058	5320	28142	28944	57086
22 Okanagan-Similkameen	10263	9316	3554	3658	3929	4037	2879	3173	3189	3416	7041	9086	30855	32686	63541
23 Peace River	10193	9990	4524	4214	4374	3847	2649	2367	2067	1623	1338	1782	25145	23823	48968
24 Powell River	3375	3219	1248	1157	1394	1303	1151	1070	963	887	1128	1479	9259	9115	18374
25 Skeena-Queen Charlotte	4672	4517	2324	2042	2182	1898	1398	1106	920	731	580	772	12076	11066	23142
26 Squamish-Lillooet	4590	4006	2074	2170	2306	1871	1365	967	959	832	637	850	11931	10696	22627
27 Stikine	341	278	110	121	193	159	103	81	58	30	25	25	830	694	1524
28 Sunshine Coast	3135	2785	989	989	1526	1435	1007	954	947	1034	1574	2097	9178	9294	18472
29 Thompson-Nicola	19267	18214	7401	7598	8501	8238	6329	5920	4878	4283	3983	5264	50359	49517	99876
30 Fort Nelson/Liard	987	926	599	524	412	334	201	156	137	141	35	50	2371	2131	4502
<b>Metropolitan - Subtotal</b>	293152	282806	161543	167328	145295	152712	100858	103556	82107	85229	108672	143627	891627	935258	1826885
3 Capital	47281	44869	20414	21114	20879	23744	14157	15940	12783	15249	26898	34150	142412	155066	297478
16 Greater Vancouver	245871	237937	141129	146214	124416	128968	86701	87616	69324	69980	81774	109477	749215	780192	1529407
<b>Total</b>	<b>552314</b>	<b>527988</b>	<b>263831</b>	<b>270170</b>	<b>258485</b>	<b>260665</b>	<b>178510</b>	<b>175608</b>	<b>146799</b>	<b>145250</b>	<b>182343</b>	<b>241221</b>	<b>1582282</b>	<b>1620902</b>	<b>3203184</b>

(1) Population estimates are supplied by Population Sector, Planning and Statistics Division, Ministry of Finance and Corporate Relations are from the P.E.O.P.L.E. Projection Model - Projection #16.

Prepared by:  
Health Human Resources Unit  
University of British Columbia

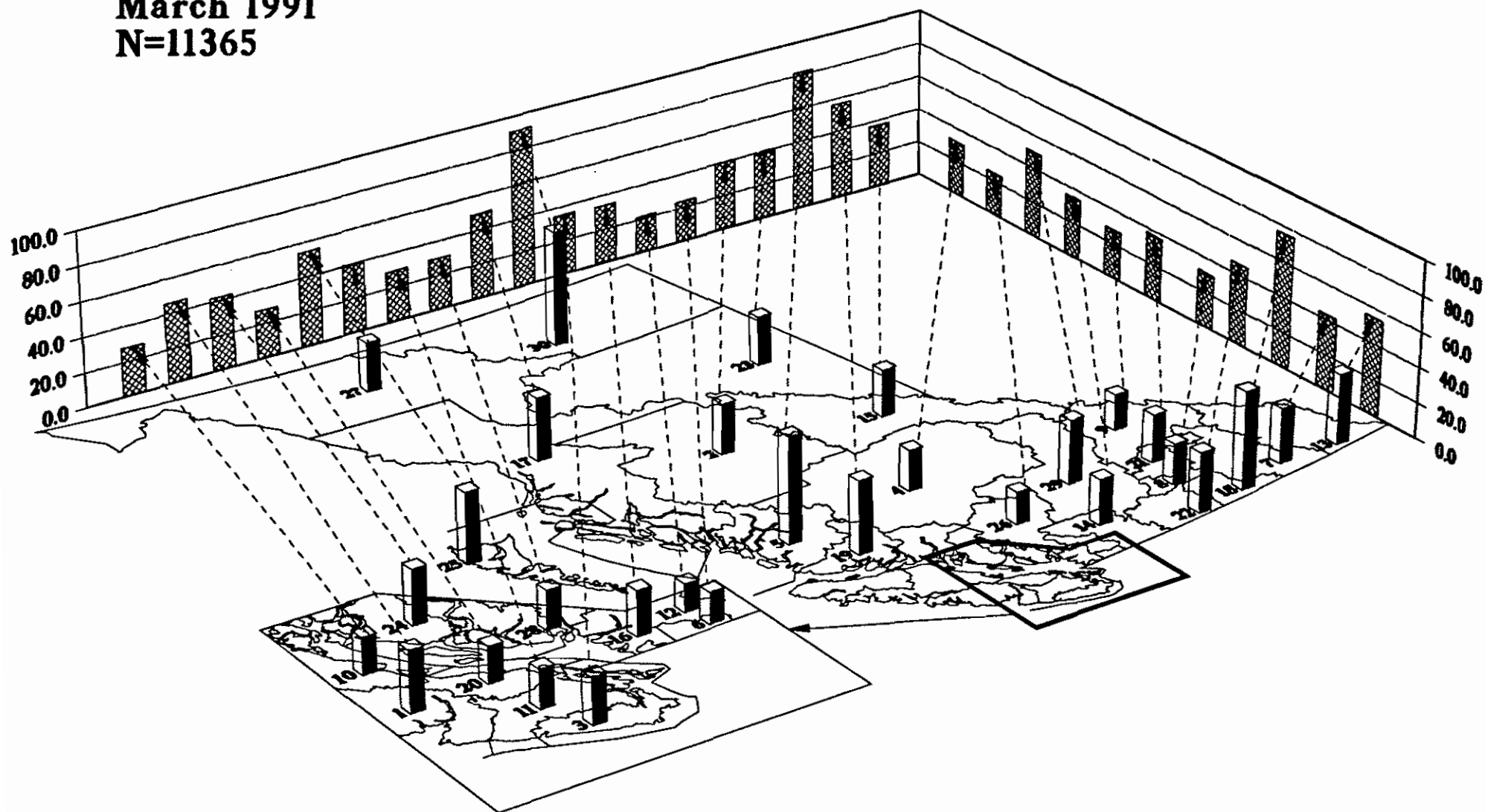
## APPENDIX C

### HOSPITAL BED CAPACITY IN BRITISH COLUMBIA BY REGIONAL HOSPITAL DISTRICT

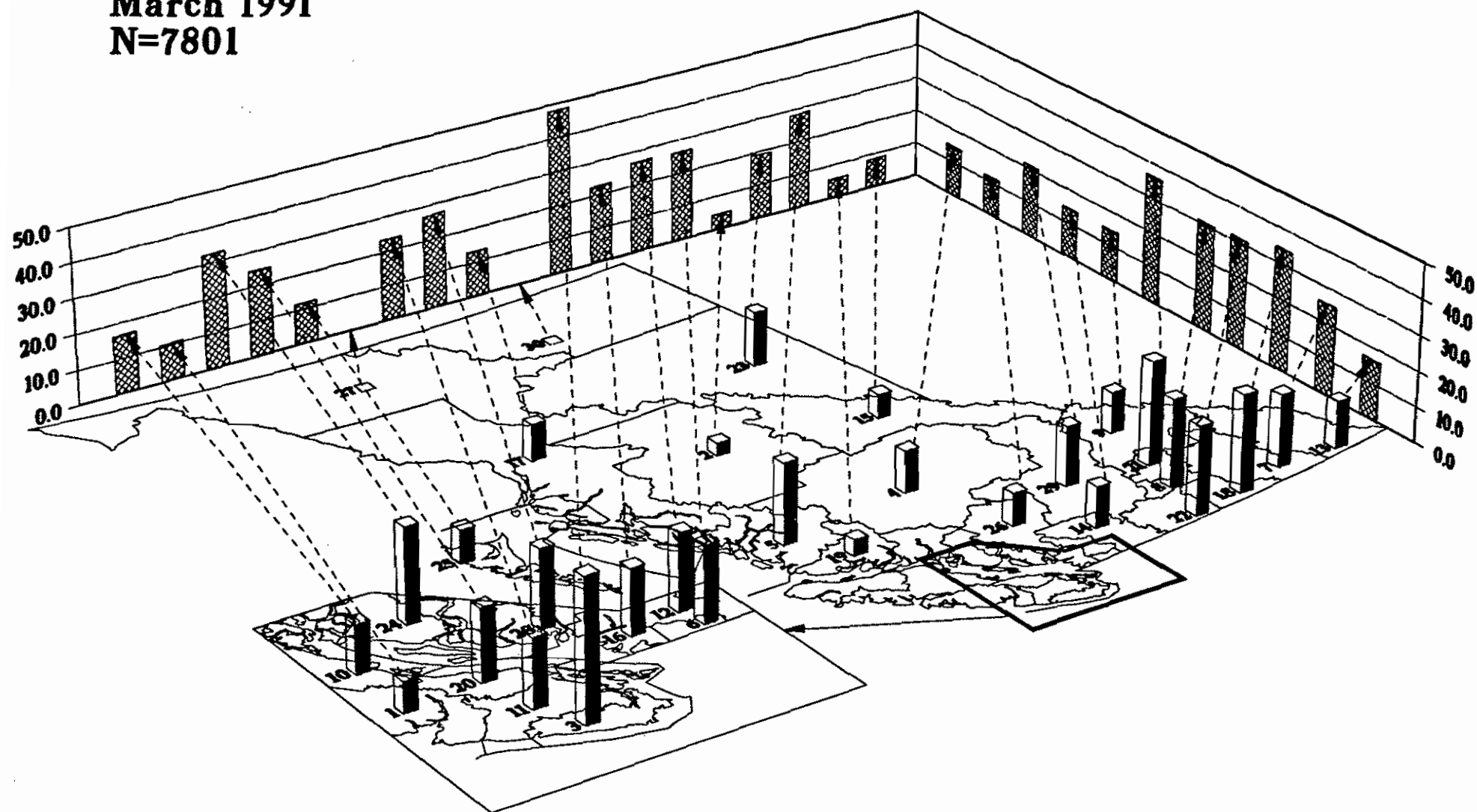




**Acute Care Beds  
per 10,000 Population  
by Regional Hospital District  
March 1991  
N=11365**



**Extended Care Beds  
per 10,000 Population  
by Regional Hospital District  
March 1991  
N=7801**



**Bassinets  
per 10,000 Population  
by Regional Hospital District  
March 1991  
N=1217**

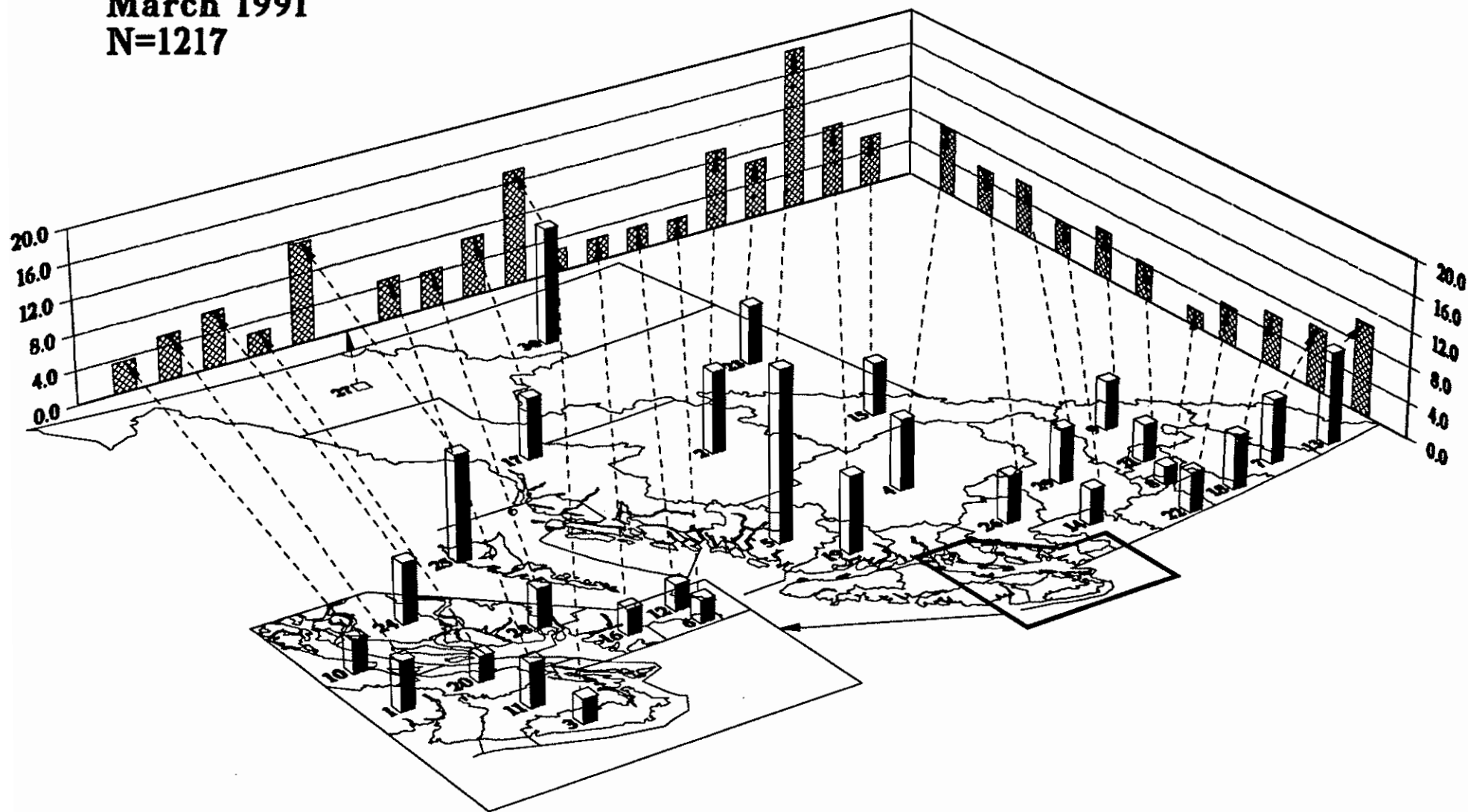


Table 1

Rated Hospital Bed Capacity<sup>1</sup> in British Columbia

by Regional Hospital District

March 1989 and March 1991

424

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds		Total	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>5,077</b>	<b>5,092</b>	<b>2,796</b>	<b>2,903</b>	<b>814</b>	<b>707</b>	<b>0</b>	<b>0</b>	<b>8,687</b>	<b>8,702</b>
1 Alberni-Clayoquot	139	139	32	32	30	16	0	0	201	187
2 Bulkley-Nechako	150	150	17	17	36	35	0	0	203	202
4 Cariboo	189	189	75	88	47	47	0	0	311	324
5 Central Coast	26	26	9	9	6	6	0	0	41	41
6 Central Fraser Valley	179	202	225	225	18	21	0	0	422	448
7 Central Kootenay	216	216	128	128	39	36	0	0	383	380
8 Central Okanagan	328	329	300	320	20	20	0	0	648	669
9 Columbia-Shuswap	113	113	58	58	26	22	0	0	197	193
10 Comox-Strathcona	225	225	133	133	36	29	0	0	394	387
11 Cowichan Valley	167	167	120	133	29	27	0	0	316	327
12 Dewdney-Alouette	196	196	244	244	24	26	0	0	464	466
13 East Kootenay	261	261	79	79	49	49	0	0	389	389
14 Fraser-Cheam	232	232	95	95	25	26	0	0	352	353
15 Fraser-Fort George	330	324	74	74	65	52	0	0	469	450
17 Kitimat-Stikine	200	200	33	53	36	28	0	0	269	281
18 Kootenay Boundary	228	228	103	103	28	18	0	0	359	349
19 Mount Waddington	80	80	8	8	21	12	0	0	109	100
20 Nanaimo	260	260	231	231	39	26	0	0	530	517
21 North Okanagan	213	213	208	208	24	24	0	0	445	445
22 Okanagan-Similkameen	294	294	198	198	33	28	0	0	525	520
23 Peace River	192	192	84	94	43	33	0	0	319	319
24 Powell River	77	77	44	60	12	12	0	0	133	149
25 Skeena-Queen Charlotte	126	126	27	27	28	27	0	0	181	180
26 Squamish-Lillooet	59	56	11	26	12	12	0	0	82	94
27 Stikine	6	6	0	0	2	0	0	0	8	6
28 Sunshine Coast	55	55	50	50	8	8	0	0	113	113
29 Thompson-Nicola	495	495	210	210	69	61	0	0	774	766
30 Fort Nelson/Liard	41	41	0	0	9	6	0	0	50	47
<b>Metropolitan - Subtotal</b>	<b>6,338</b>	<b>6,273</b>	<b>4,861</b>	<b>4,898</b>	<b>536</b>	<b>510</b>	<b>428</b>	<b>428</b>	<b>12,163</b>	<b>12,109</b>
3 Capital	1,045	1,045	1,426	1,428	95	79	153	153	2,719	2,705
16 Greater Vancouver	5,293	5,228	3,435	3,470	441	431	275	275	9,444	9,404
<b>TOTAL</b>	<b>11,415</b>	<b>11,365</b>	<b>7,657</b>	<b>7,801</b>	<b>1,350</b>	<b>1,217</b>	<b>428</b>	<b>428</b>	<b>20,850</b>	<b>20,811</b>

<sup>1</sup>Source: B.C. Hospital Programs, Ministry of Health.

Table 2

**Rated Hospital Bed Capacity<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District**  
**March 1989<sup>2</sup> and March 1991**

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds		Total	
	1989	1991	1989	1991	1989	1991	1989	1991	1989	1991
<b>Non-Metropolitan - Subtotal</b>	<b>38.28</b>	<b>37.00</b>	<b>21.08</b>	<b>21.09</b>	<b>6.14</b>	<b>5.14</b>	<b>0.00</b>	<b>0.00</b>	<b>65.50</b>	<b>63.23</b>
1 Alberni-Clayoquot	46.42	45.85	10.69	10.55	10.02	5.28	0.00	0.00	67.12	61.68
2 Bulkley-Nechako	40.51	39.56	4.59	4.48	9.72	9.23	0.00	0.00	54.82	53.28
4 Cariboo	32.42	31.81	12.87	14.81	8.06	7.91	0.00	0.00	53.35	54.54
5 Central Coast	81.48	81.76	28.20	28.30	18.80	18.87	0.00	0.00	128.49	128.93
6 Central Fraser Valley	23.39	23.75	29.40	26.45	2.35	2.47	0.00	0.00	55.14	52.67
7 Central Kootenay	44.53	43.05	26.39	25.51	8.04	7.17	0.00	0.00	78.95	75.73
8 Central Okanagan	33.55	31.50	30.69	30.64	2.05	1.92	0.00	0.00	66.28	64.06
9 Columbia-Shuswap	28.50	28.28	14.63	14.52	6.56	5.51	0.00	0.00	49.68	48.30
10 Comox-Strathcona	29.44	27.89	17.40	16.49	4.71	3.59	0.00	0.00	51.56	47.97
11 Cowichan Valley	30.26	29.41	21.74	23.42	5.25	4.76	0.00	0.00	57.25	57.59
12 Dewdney-Alouette	23.81	21.52	29.64	26.79	2.92	2.86	0.00	0.00	56.36	51.17
13 East Kootenay	53.65	55.06	16.24	16.66	10.07	10.34	0.00	0.00	79.97	82.06
14 Fraser-Cheam	36.86	34.97	15.09	14.32	3.97	3.92	0.00	0.00	55.92	53.20
15 Fraser-Fort George	38.26	37.27	8.58	8.51	7.54	5.98	0.00	0.00	54.38	51.76
17 Kitimat-Stikine	51.02	49.36	8.42	13.08	9.18	6.91	0.00	0.00	68.63	69.36
18 Kootenay Boundary	76.45	76.01	34.53	34.34	9.39	6.00	0.00	0.00	120.37	116.35
19 Mount Waddington	56.35	56.47	5.64	5.65	14.79	8.47	0.00	0.00	76.78	70.59
20 Nanaimo	29.44	27.70	26.16	24.61	4.42	2.77	0.00	0.00	60.02	55.08
21 North Okanagan	37.91	37.31	37.02	36.44	4.27	4.20	0.00	0.00	79.19	77.95
22 Okanagan-Similkameen	47.48	46.27	31.98	31.16	5.33	4.41	0.00	0.00	84.79	81.84
23 Peace River	38.91	39.21	17.02	19.20	8.71	6.74	0.00	0.00	64.65	65.14
24 Powell River	42.34	41.91	24.20	32.65	6.60	6.53	0.00	0.00	73.14	81.09
25 Skeena-Queen Charlotte	55.02	54.45	11.79	11.67	12.23	11.67	0.00	0.00	79.04	77.78
26 Squamish-Lillooet	27.54	24.75	5.13	11.49	5.60	5.30	0.00	0.00	38.27	41.54
27 Stikine	37.90	39.37	0.00	0.00	12.63	0.00	0.00	0.00	50.54	39.37
28 Sunshine Coast	30.78	29.77	27.98	27.07	4.48	4.33	0.00	0.00	63.23	61.17
29 Thompson-Nicola	50.56	49.56	21.45	21.03	7.05	6.11	0.00	0.00	79.06	76.70
30 Fort Nelson/Liard	87.48	91.07	0.00	0.00	19.20	13.33	0.00	0.00	106.68	104.40
<b>Metropolitan - Subtotal</b>	<b>36.70</b>	<b>34.34</b>	<b>28.15</b>	<b>26.81</b>	<b>3.10</b>	<b>2.79</b>	<b>2.48</b>	<b>2.34</b>	<b>70.43</b>	<b>66.28</b>
3 Capital	36.92	35.13	50.38	48.00	3.36	2.66	5.41	5.14	96.07	90.93
16 Greater Vancouver	36.65	34.18	23.79	22.69	3.05	2.82	1.90	1.80	65.40	61.49
<b>TOTAL</b>	<b>37.39</b>	<b>35.48</b>	<b>25.08</b>	<b>24.35</b>	<b>4.42</b>	<b>3.80</b>	<b>1.40</b>	<b>1.34</b>	<b>68.29</b>	<b>64.97</b>

<sup>1</sup>Source: B.C. Hospital Programs, Ministry of Health.

<sup>2</sup>These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 89 and ROLLCALL UPDATE 90. See Foreword.

Table 3

Average Annual Rate of Change in Rated Hospital Bed Capacity<sup>1</sup>  
in British Columbia by Regional Hospital District  
March 1989 to March 1991

426

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds		Total	
	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>0.15</b>	<b>-1.69</b>	<b>1.90</b>	<b>0.03</b>	<b>-6.80</b>	<b>-8.51</b>	*	*	<b>0.09</b>	<b>-1.75</b>
1 Alberni-Clayoquot	0.00	-0.62	0.00	-0.62	-26.97	-27.42	*	*	-3.55	-4.14
2 Bulkley-Nechako	0.00	-1.17	0.00	-1.17	-1.40	-2.55	*	*	-0.25	-1.41
4 Cariboo	0.00	-0.94	8.32	7.30	0.00	-0.94	*	*	2.07	1.11
5 Central Coast	0.00	0.17	*	*	*	*	*	*	0.00	0.17
6 Central Fraser Valley	6.23	0.77	0.00	-5.14	8.01	2.46	*	*	3.03	-2.26
7 Central Kootenay	0.00	-1.67	0.00	-1.67	-3.92	-5.53	*	*	-0.39	-2.06
8 Central Okanagan	0.15	-3.10	3.28	-0.07	0.00	-3.25	*	*	1.61	-1.69
9 Columbia-Shuswap	0.00	-0.38	0.00	-0.38	-8.01	-8.37	*	*	-1.02	-1.40
10 Comox-Strathcona	0.00	-2.67	0.00	-2.67	-10.25	-12.65	*	*	-0.89	-3.54
11 Cowichan Valley	0.00	-1.41	5.28	3.79	-3.51	-4.87	*	*	1.73	0.29
12 Dewdney-Alouette	0.00	-4.92	0.00	-4.92	4.08	-1.03	*	*	0.22	-4.71
13 East Kootenay	0.00	1.30	0.00	1.30	0.00	1.30	*	*	0.00	1.30
14 Fraser-Cheam	0.00	-2.60	0.00	-2.60	1.98	-0.67	*	*	0.14	-2.46
15 Fraser-Fort George	-0.91	-1.31	0.00	-0.40	-10.56	-10.91	*	*	-2.05	-2.43
17 Kitimat-Stikine	0.00	-1.64	26.73	24.65	-11.81	-13.25	*	*	2.21	0.53
18 Kootenay Boundary	0.00	-0.28	0.00	-0.28	-19.82	-20.05	*	*	-1.40	-1.68
19 Mount Waddington	0.00	0.10	*	*	-24.41	-24.33	*	*	-4.22	-4.12
20 Nanaimo	0.00	-3.00	0.00	-3.00	-18.35	-20.80	*	*	-1.23	-4.20
21 North Okanagan	0.00	-0.79	0.00	-0.79	0.00	-0.79	*	*	0.00	-0.79
22 Okanagan-Similkameen	0.00	-1.28	0.00	-1.28	-7.89	-9.07	*	*	-0.48	-1.75
23 Peace River	0.00	0.38	5.79	6.19	-12.40	-12.06	*	*	0.00	0.38
24 Powell River	0.00	-0.52	16.77	16.17	0.00	-0.52	*	*	5.84	5.30
25 Skeena-Queen Charlotte	0.00	-0.52	0.00	-0.52	-1.80	-2.32	*	*	-0.28	-0.80
26 Squamish-Lillooet	-2.58	-5.19	53.74	49.61	0.00	-2.69	*	*	7.07	4.19
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	0.00	-1.64	0.00	-1.64	*	*	*	*	0.00	-1.64
29 Thompson-Nicola	0.00	-0.99	0.00	-0.99	-5.98	-6.91	*	*	-0.52	-1.51
30 Fort Nelson/Liard	0.00	2.03	*	*	*	*	*	*	-3.05	-1.07
<b>Metropolitan - Subtotal</b>	<b>-0.51</b>	<b>-3.27</b>	<b>0.38</b>	<b>-2.40</b>	<b>-2.46</b>	<b>-5.16</b>	<b>0.00</b>	<b>-2.77</b>	<b>-0.22</b>	<b>-2.99</b>
3 Capital	0.00	-2.46	0.07	-2.39	-8.81	-11.05	0.00	-2.46	-0.26	-2.71
16 Greater Vancouver	-0.62	-3.43	0.51	-2.34	-1.14	-3.94	0.00	-2.83	-0.21	-3.04
<b>TOTAL</b>	<b>-0.22</b>	<b>-2.58</b>	<b>0.94</b>	<b>-1.45</b>	<b>-5.05</b>	<b>-7.30</b>	<b>0.00</b>	<b>-2.37</b>	<b>-0.09</b>	<b>-2.46</b>

<sup>1</sup>Source: B.C. Hospital Programs, Ministry of Health.<sup>2</sup>Rate of change (in percent) in the number.<sup>3</sup>Rate of change (in percent) in the number per 10,000 population.

\*Indicates that the base for the rate of change was less than 10.

Prepared by:

Health Human Resources Unit  
The University of British Columbia

## APPENDIX D

### RETAIL PHARMACIES IN BRITISH COLUMBIA BY REGIONAL HOSPITAL DISTRICT





**Community Pharmacies  
per 10,000 Population  
by Regional Hospital District  
December 1991  
N=654**

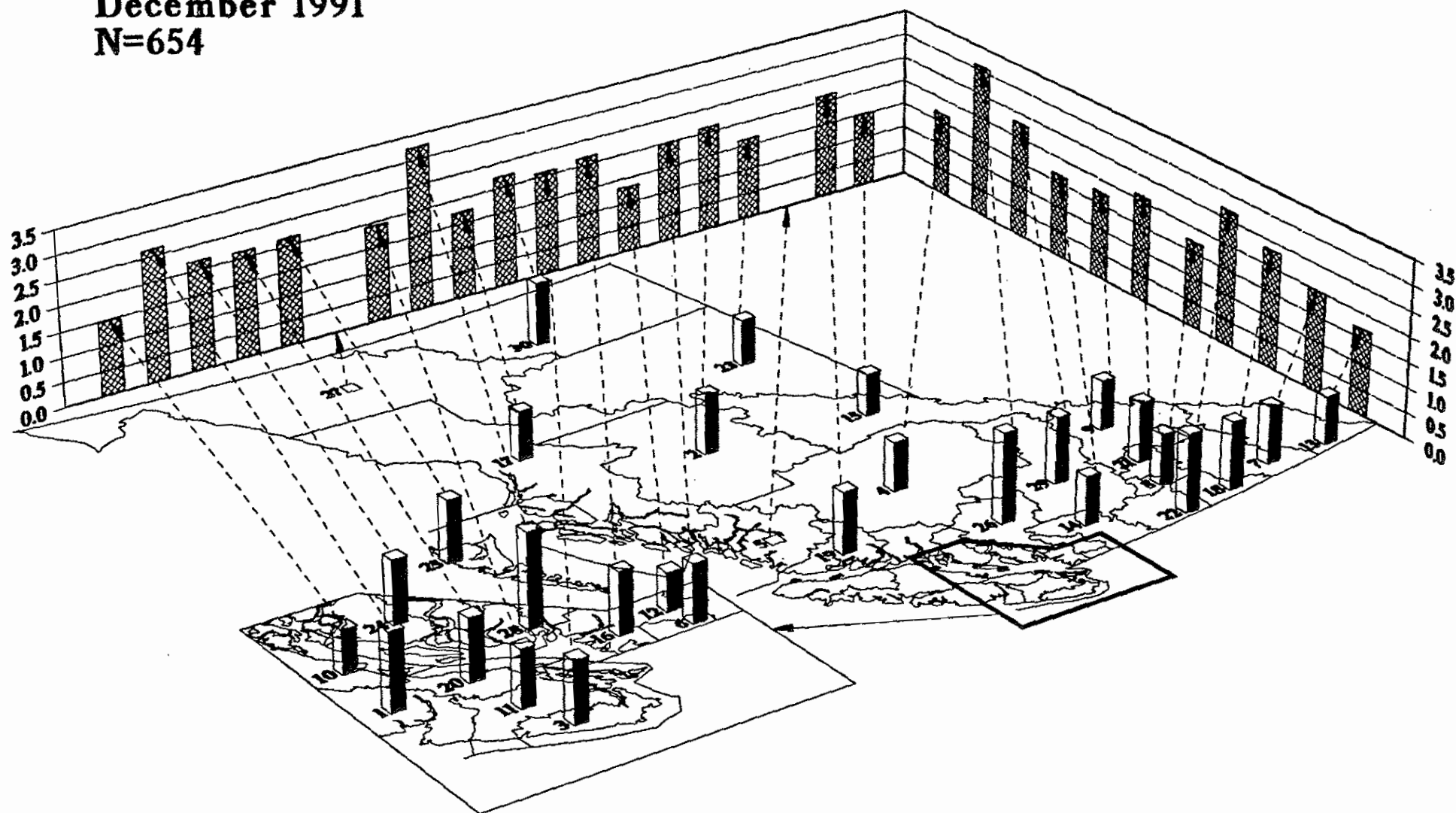


Table 1

**Community Pharmacies<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1989<sup>2</sup> and December 1991**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>3</sup>	
	1989	1991	1989	1991	Number	Ratio
<b>Non-Metropolitan - Subtotal</b>	<b>253</b>	<b>254</b>	<b>1.91</b>	<b>1.82</b>	<b>0.20</b>	<b>-2.44</b>
1 Alberni-Clayoquot	7	8	2.34	2.65	*	*
2 Bulkley-Nechako	8	8	2.16	2.14	*	*
4 Cariboo	10	10	1.72	1.71	0.00	-0.08
5 Central Coast	1	0	3.13	0.00	*	*
6 Central Fraser Valley	16	17	2.09	2.01	3.08	-1.90
7 Central Kootenay	11	10	2.27	1.96	-4.65	-7.01
8 Central Okanagan	17	17	1.74	1.56	0.00	-5.38
9 Columbia-Shuswap	7	7	1.77	1.69	*	*
10 Comox-Strathcona	13	12	1.70	1.47	-3.92	-7.01
11 Cowichan Valley	13	11	2.36	1.85	-8.01	-11.34
12 Dewdney-Alouette	11	12	1.34	1.35	4.45	0.34
13 East Kootenay	8	8	1.64	1.65	*	*
14 Fraser-Cheam	9	11	1.43	1.60	*	*
15 Fraser-Fort George	12	13	1.39	1.51	4.08	4.21
17 Kitimat-Stikine	8	7	2.04	1.77	*	*
18 Kootenay Boundary	6	6	2.01	1.93	*	*
19 Mount Waddington	3	3	2.11	2.20	*	*
20 Nanaimo	20	19	2.26	1.95	-2.53	-7.17
21 North Okanagan	9	10	1.60	1.67	*	*
22 Okanagan-Similkameen	16	16	2.58	2.41	0.00	-3.44
23 Peace River	7	8	1.42	1.55	*	*
24 Powell River	4	3	2.20	1.60	*	*
25 Skeena-Queen Charlotte	4	4	1.75	1.72	*	*
26 Squamish-Lillooet	6	7	2.80	3.18	*	*
27 Stikine	0	0	0.00	0.00	*	*
28 Sunshine Coast	6	6	3.36	2.99	*	*
29 Thompson-Nicola	20	20	2.04	1.99	0.00	-1.27
30 Fort Nelson/Liard	1	1	2.13	1.99	*	*
<b>Metropolitan - Subtotal</b>	<b>363</b>	<b>366</b>	<b>2.10</b>	<b>2.02</b>	<b>0.41</b>	<b>-2.03</b>
3 Capital	58	62	2.05	2.08	3.39	0.76
16 Greater Vancouver	305	304	2.11	2.01	-0.16	-2.57
<b>TOTAL</b>	<b>616</b>	<b>620</b>	<b>2.02</b>	<b>1.93</b>	<b>0.32</b>	<b>-2.20</b>

<sup>1</sup> Includes retail pharmacies only. Hospital pharmacies are excluded.

<sup>2</sup> These figures differ from the corresponding figures for 1989 appearing in ROLLCALL 91 and ROLLCALL UPDATE 90 because of an error in the method of calculation. Also, see Foreword.

<sup>3</sup> Rate of change (in percent) in the number and in the number per 10,000 population.

\* Indicates that the base for the rate of change is less than 10.