



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

**Report R:23**

**Division of Health Services Research and Development  
Office of the Coordinator of Health Sciences  
The John F. McCreary Health Sciences Centre  
The University of British Columbia  
Vancouver, British Columbia, V6T 1Z6**

**March 1984**

**ISSN 0707-3542**

This report is one of a series describing the distribution of health care resources and manpower in the Province of British Columbia. These reports are working documents and comments or suggestions are welcome. The reports are prepared for the Health Manpower Working Group of the Ministry of Health and are subsequently released for general information.



## HEALTH MANPOWER RESEARCH UNIT

C/O OFFICE OF THE COORDINATOR  
HEALTH SCIENCES CENTRE

PHONE: (604) 228-4810

4th FLOOR I.R.C. BUILDING  
THE UNIVERSITY OF BRITISH COLUMBIA  
VANCOUVER, B.C., CANADA V6T 1Z6

March 15, 1984

Mr. C. Lovelace,  
Chairman,  
Health Manpower Working Group,  
Ministry of Health,  
Parliament Buildings,  
Victoria, B.C.

Dear Mr. Lovelace:

Re: ROLLCALL 83

I take pleasure in transmitting to you and to the members of the Health Manpower Working Group, the latest edition of our ROLLCALL series, ROLLCALL 83. We have added two new health care personnel groups since 1981, Health Services Executives and Naturopaths. This document contains for 30 groups, numbers, numbers per 10,000 population, rates of change where comparable 1981 data were available, and where possible, a disaggregation of data by specialty or service area.

The reader's attention is drawn to the Overview and Summary commencing on page 5. It is noted that, generally, population:personnel ratios are stable for the two years under study. However, for 8 groups of the 30, the rate of growth was slower than population growth and where there was growth, it occurred mainly in the non-metropolitan regions.

More specific information on each group is found in the report's chapters. While the data in the chapters are disaggregated by regional hospital district, breakdowns by school district, town, or our HMRU regions are also on file and available on request.

The many individual data bases which are amalgamated into ROLLCALL also serve numerous other purposes, both for the Research Unit and Working Group, and for the respective Associations, licensing bodies and manpower groups. As the needs of these users change and grow, improvements and additions are built into the data bases, resulting in a changing (but to the extent possible, intertemporally consistent) publication.

ROLLCALL 83 represents the culmination of two years of file maintenance and updating, topped off most recently with close to six intensive months of coding and editing, consistency checks, table generation, definition and other text verification, proofreading and analysis. The team working on this edition included Susan Chan, Patrick Wong Fung, Brian McCashin, Gordon Wong, (programming and file updating); Cheryl Jackson, Sharon Jansen, Claire Kinnis, Andrea Szohner, (coding, inputting data and proofreading drafts); report-production was coordinated by Arminee Kazanjian, assisted by Claire Kinnis (editing), Brian McCashin (computer analyses), and Andrea Szohner (graphic layout).

Financial support from the University of British Columbia and the Ministry of Health is gratefully acknowledged. We wish also to thank those readers and users who have taken the time in the past to communicate to us suggestions for improving the ROLLCALL series. It is our hope that such informal assistance will continue in response to this latest edition.

Sincerely yours,



Annette J. Stark, Ph.D.,  
Director,  
Division of Health Services  
Research and Development

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## FOREWORD

*ROLLCALL 83* is the sixth situation report on health personnel by Regional Hospital District produced by the Division of Health Services Research and Development, The University of British Columbia. This Division is the site of the Health Manpower Research Unit. The production of *ROLLCALL* is based on the presumption that the data will be used for manpower planning by the principal recipients of the report -- the Health Manpower Working Group of the Province of British Columbia and the professional groups and licensing or registration bodies in the Province. Interest in health manpower planning continues to grow as pressures on limited health care resources grow more intense. In the past two years fiscal restraint and cost containment have become familiar concepts not just to planners at various levels but also to the general population. The allocation of an appreciable proportion of public funds to the health sector and the complex process by which the limited dollars are disbursed have put health manpower planning in the forefront of public policy issues.

*ROLLCALL 83* is not meant to replace the B.C. components of the national *Health Manpower Inventory*, produced annually by the Health Manpower Directorate of Health and Welfare Canada; that publication reviews provincial variations, using consistent definitions and national sources; nor is it meant to replace annual Health Manpower statistics issued by Statistics Canada<sup>1</sup>. *ROLLCALL* concentrates on examining the health manpower 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 Health Manpower Research Unit(HMRU) was initially funded by the Minister of Health in September 1973, as a demonstration project. It was charged with the development of the provincial health manpower data base and creation of models to analyze the forces influencing manpower 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 other analyses of manpower data for the professional bodies, the Provincial Health Manpower Working Group, the Federal/Provincial Health Manpower Advisory Committee, and the Western Canada Post-Secondary Education Health Manpower Requirements Subcommittee of the Ministers of Education. It provides, on behalf of the professional bodies, tapes and data to Statistics Canada for inclusion in the *Health Manpower Statistics* series.

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<sup>1</sup>Compendium of Selected Health Manpower Statistics, Catalogue 83-231

Since 1973, a large and varied amount of data has been collected by the Division as a basis for decision making. The manpower components of this data base require varying degrees of maintenance to ensure its quality and currency.

The data bases used in this report are of three broad types:

(a) Computer-based and updated regularly by the Division

Seven data bases are set up in a dynamic mode, edited and updated regularly in cooperation with provincial Associations and Colleges. These are:

Certified Dental Assistants	Occupational Therapists
Dental Hygienists	Physiotherapists
Dentists	Psychologists
Licensed Practical Nurses	

An eighth data base for Medical Interns and Residents is updated regularly by the Division, in cooperation with the Associate Dean's Office (Faculty of Medicine) and the training institutions.

(b) Computer-based and updated regularly by another group

The Registered Nurses' Association of British Columbia, the College of Pharmacists of British Columbia, and the College of Physicians and Surgeons of British Columbia have established their own data bases as part of their respective office management systems.

(c) Membership lists collected by the Division

The remainder of the data is collected annually or biennially from information derived from annual registrations. This information is supplemented, where possible, through questionnaire surveys of individuals in certain health occupations.

Only the computer-based groups can be studied to produce transitions within and between regional districts over a period of time.

This report contains data for thirty health manpower groups. Since definitions regarding the boundaries of the health care sector vary, there are inevitably certain groups which might have been included had the boundaries been different (e.g. veterinarians). In addition, there may be small health manpower groups for which we were unable to secure data, because of either the non-existence of a formal licensing body or professional association, or, the absence of a membership list.

All data are reported by Regional Hospital District(RHD). Supplementary breakdowns by school district, by community, and by HMRU designated region are available on request.

While each new edition of *ROLLCALL* reflects improvements in accuracy and detail, at times these improvements render comparisons with the previous *ROLLCALL* reports meaningless. A major problem of using membership as a proxy for stock, where membership is not compulsory, remains for many groups. While comparative data are provided for these groups if there have been no major changes in membership classification, intertemporal inferences should be made with extreme caution.

There is an obvious temptation to regard regional inequalities as indicators of regional deficiencies or excesses; in fact, in certain instances, this may be a correct interpretation. However, since many factors interact in determining *optimal* mix and numbers of health care personnel in any district, the data provided in the following pages are not a sufficient base from which to identify such deficiencies. The demography and needs of the population, the service functions of institutions and professions within a region, the accessibility and availability of communication and transportation resources, the productivity of the professionals, and the potential of real transfer of functions between members of the formal and informal health care teams must all be kept in mind by those utilizing these statistics.

*ROLLCALL 83* represents the culmination of two years of file maintenance and updating, topped off most recently with close to six intensive months of coding and editing, consistency checks, table generation, definition and other text verification, proofreading and analysis. The team working on this edition included Susan Chan, Patrick Wong Fung, Brian McCashin, Gordon Wong, (programming and file updating); Cheryl Jackson, Sharon Jansen, Claire Kinnis, Andrea Szohner, (coding, inputting data and proofreading drafts); report-production was coordinated by Arminee Kazanjian, assisted by Claire Kinnis (editing), Brian McCashin (computer analyses), and Andrea Szohner (graphic layout). Computer analyses were produced by UBC's Amdahl 470 V/8 and the entire manuscript reflects the almost flawless *hands* of our Xerox 9700 laser printer. The dynamic files were manipulated under the TAXIR information storage and retrieval system and the ASAP file-management system.

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





## OVERVIEW AND SUMMARY

### Introduction

The main thrust of this report is to enumerate and describe each of thirty health manpower groups for which data were available. In this section an attempt is made to present a broader perspective by providing relative supply figures and to highlight possible trends for individual groups. Caution is advised, however, in the interpretation and utilization of some of the 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 manpower imbalances. It would be misleading to draw conclusions about maldistribution from interregional comparisons of manpower ratios since regions have varying supply requirements due to differing population characteristics and variations in the complexity of services provided. The population:personnel ratios in the following tables do not adjust for such factors and therefore, should be used only as a basis for informed discussion and further investigation.

### Population: Personnel Ratios

An overview of the thirty group-specific chapters of this report is presented in Table 1, page 6. This table provides 1983 supply information for each group and comparative population:personnel ratios for B.C., 1983; B.C., 1981; and the rest of Canada, 1981.

The scope of data presented for each group is outlined in the footnotes to Table 1. Where inter-provincial comparisons are concerned, varying nomenclature and definitions 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 nurses, figures only represent the registered nurses (RNs), the licensed practical nurses (LPNs), etc. For groups without any registration requirements, information from membership records, usually of a provincial association, has been collected. Membership categories sometimes include active/inactive designations. These, however, refer to membership status only and most probably misrepresent the number of employed personnel in that field of work. The direction and degree of misrepresentation also varies by group; the specification of such variances is beyond the scope of this report.

Bearing in mind such limitations, the data show that registered nurses employed in the field are the most numerous and active physicians and licensed practical nurses employed in nursing are second and third in stock size. The least numerous group remains the osteopaths. There are also fewer



Table 1 Number of Personnel<sup>1</sup>, 1983 and Population to Personnel Ratios, 1981 and 1983

	Number of Personnel B.C., 1983	Ratio B.C. 1983 <sup>2</sup>	Ratio B.C. 1981 <sup>1</sup>	Ratio Rest of Canada 1981 <sup>4</sup>
Audiologists and Speech- Language Pathologists**	201	14030	15505	N/C
Certified Dental Assistants*	2205	1279	1492	N/C
Chiropractors*	311	9067	9399	10249
Dental Hygienists*	513	5497	6126	5967
Dental Laboratory Technicians*†	330	8545	8445	N/A
Dental Mechanics*	177	15932	15864	N/A
Dentists*	1746	1615	1643	2227
Diagnostic Medical Sonographers**	103	27378	34740	N/A
Dietitians and Nutritionists***	473	5962	N/C	5838
Food Service Supervisors***	189	14921	20481	N/A
Health Record Personnel**	309	9126	8630	N/C
Health Services Executives***	332	8494	N/C	N/C
Licensed Practical Nurses*††	4777	590	555	269
Medical Laboratory Technologists**	2142	1317	1405	1585
Medical Office Assistants***	634	4448	4823	N/A
Medical Radiation Technologists**	918	3072	2967	2542
Naturopaths*	23	122608	N/C	N/A
Occupational Therapists***	296	9527	9088	N/C
Optometrists*	199	14171	14916	11472
Osteopaths*	6	469997	N/C	N/C
Pharmacists*	2004	1407	1431	1447
Physicians*	6038	467	482	541
Physiotherapists*	1312	2149	2154	N/C
Podiatrists*	41	68780	65344	100127
Prosthetists and Orthotists**	21	134285	N/C	N/A
Psychologists*	730	3863	3674	N/A
Public Health Inspectors***	194	14536	14755	29125
Registered Nurses*†††	19184	147	148	N/C
Registered Psychiatric Nurses*	2475	1139	1183	N/A
Respiratory Technologists***	122	23115	N/C	11663

(continued)

Table 1(continued)

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- <sup>1</sup> Includes(\*) *active registrants* for groups which have registration and licensing requirements; these may or may not be mandatory.  
 (\*\*) *active members* for groups which do not have formal registration requirements and for which usually provincial associations specify membership criteria and categories; these comprise at least the two levels, active/ inactive.  
 (\*\*\*) *all members* for groups which do not have formal registration requirements and have reported totals from provincial association membership rolls.
- <sup>2</sup> Estimated population, B.C., 1983 = 2819979
- <sup>3</sup> Census population, B.C., 1981 = 2744467
- <sup>4</sup> Source: *Canada Health Manpower Inventory, 1982*. Ratios are for Canada, excluding B.C. Sources, enumeration definitions and dates of record for the national inventory may often be different than those for the figures in the chapters of *ROLLCALL 83*. Thus, comparisons of the final two columns in Table 1 should be viewed only as approximations of relative supply situations. Where inconsistencies of an obvious and large magnitude exist, the Canadian ratio is denoted by (N/C).
- † Includes only licensed dental laboratory technicians.
- †† Includes only licensed practical nurses who indicated that they were employed in nursing; this 1981 figure should not be compared with that reported in *ROLLCALL 81*.
- ††† Includes only RNs who indicated that they were employed in nursing.
- \* Based on reported active registrants. See note (1) above.
- \*\* Based on all reported active members. See note (1) above.
- \*\*\* Based on all reported members. See note (1) above.
- N/A Not available.
- N/C Data not comparable. See Note (4) above.

than fifty each of naturopaths (a group included in this report for the first time), podiatrists, and prosthetists/orthotists.

Table 1 also shows that the population:personnel ratios have generally remained stable. It should be noted that 1981 ratios in this report should not be compared to those of *ROLLCALL 81*, since the 1981 population figures used in the 1983 report were obtained from the 1981 census and were not available for *ROLLCALL 81*.

While the B.C. versus rest of Canada comparisons must be interpreted with extreme caution, this table suggests that supply on a per capita basis is greater in B.C. than in the rest of Canada for chiropractors, dentists, medical laboratory technologists, pharmacists, physicians, podiatrists, and public health inspectors; and smaller for dental hygienists, licensed practical nurses, medical radiation technologists and optometrists.



**Table 2**  
**Average Annual Rates of Change,**  
**in Numbers of Personnel and Personnel:Population Ratios, 1981 to 1983<sup>1</sup>**

	Number <sup>2</sup>		Ratio <sup>3</sup>		
	Non-Metro <sup>4</sup>	Metro <sup>5</sup>	Total	Non-Metro <sup>4</sup>	Metro <sup>5</sup>
Audiologists and Speech-Language Pathologists**	19.24	4.01	6.18	16.56	2.95
Certified Dental Assistants*	10.31	8.65	7.99	8.24	7.74
Chiropractors*	3.65	4.06	2.18	1.32	3.00
Dental Hygienists*	7.24	6.90	5.57	5.22	6.00
Dental Laboratory Technicians*†	6.16	-1.34	-1.20	4.16	-2.18
Dental Mechanics*	1.29	0.96	-0.21	-0.54	0.15
Dentists*	4.03	1.31	0.87	2.07	0.46
Diagnostic Medical Sonographers**	16.90	12.49	12.64	14.71	11.54
Food Service Supervisors***	18.87	18.71	17.16	16.64	17.70
Health Record Personnel**	-2.67	-0.30	-2.75	-4.50	-1.14
Licensed Practical Nurses*††	-1.12	-2.32	-3.02	-2.98	-3.14
Medical Laboratory Technologists**	5.99	3.93	3.32	4.00	3.05
Medical Office Assistants***	4.79	7.00	4.32	2.74	6.06
Medical Radiation Technologists**	1.41	-1.49	-1.72	-0.50	-2.33
Occupational Therapists***	-3.86	-0.21	-2.33	-5.67	-1.05
Optometrists*	4.53	3.11	2.49	2.65	2.28
Pharmacists*	0.78	3.03	0.84	-1.11	2.16
Physicians*	2.64	3.18	1.62	0.71	2.31
Physiotherapists*	1.43	1.42	0.11	-0.40	0.60
Podiatrists*	‡	-1.40	-2.53	‡	-2.23
Psychologists*	-4.57	-0.17	-2.48	-6.36	-1.02
Public Health Inspectors***	5.79	-0.99	0.75	3.80	-1.82
Registered Nurses*†††	2.03	1.46	0.31	0.11	0.60
Registered Psychiatric Nurses*	2.56	3.17	1.70	0.84	2.40

(continued)

Table 2(continued)

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- <sup>1</sup> Groups which do not appear in this table were excluded because 1981 data were unavailable or were not comparable with 1983 figures or because the base for rate of change was less than 10 personnel. Periods over which the annual rates of changes were calculated ranged from twenty to twenty-seven months.
- <sup>2</sup> Rate of change (in percent) in the number.  

$$[(\text{Number}(1983) / \text{Number}(1981))^{12/n} - 1] \times 100$$
, where n = number of months separating the two sets of data. For group definitions, see Note (1), Table 1.
- <sup>3</sup> Rate of change (in percent) in the number per 10,000 population.  

$$[(\text{Number per 10,000 population}(1983) / \text{Number per 10,000 population}(1981))^{12/n} - 1] \times 100$$
, where n = number of months separating the two sets of data.
- <sup>4</sup> All B.C. Regional Hospital Districts with the exception of RHD 16 (Greater Vancouver) and RHD 3 (Capital).
- <sup>5</sup> Greater Vancouver and Capital districts.
- † Includes only licensed dental laboratory technicians.
- †† Includes only LPNs who indicated that they were employed in nursing.
- ††† Includes only RNs who indicated that they were employed in nursing.
- \* Estimate based on reported active registrants. See note (1), Table 1.
- \*\* Estimate based on reported active members. See note (1), Table 1.
- \*\*\* Estimate based on all reported members. See note (1), Table 1.
- ‡ Base for rates of change were less than 10 personnel.

## Rates of Change

Table 2, page 8, summarizes annual rates of change in metropolitan and non-metropolitan regions over the period 1981-83. The greatest growth in both metropolitan and non-metropolitan regions is reported for food service supervisors. The second place in aggregate rate of growth is reported for diagnostic medical sonographers. Both of these groups are relatively small in number (see Table 1). Health record personnel, licensed practical nurses, medical radiation technologists, occupational therapists, podiatrists, and psychologists all reported lower rates of growth than the general population (between 2-3 percent lower). Also lower than the population growth were the rates reported for dental laboratory technicians and dental mechanics, bringing the total number to eight groups showing a lower rate of growth than that of the general population. The comparable number of groups for the 1979-81 period was three.

Marked disparities in non-metropolitan versus metropolitan rates of change relative to population growth are shown for audiologists and speech-language pathologists with a 16.6 percent increase in non-metropolitan regions compared to only a 2.9 percent increase in metropolitan regions. Dental laboratory technicians reported faster than population growth in non-metropolitan regions (4.16%) while metropolitan regions showed a slower than population rate of change (-2.18).

In general, reported rates of growth are higher for non-metropolitan regions than metropolitan regions; exceptions are chiropractors, medical office assistants, pharmacists, physicians, and registered psychiatric nurses. However, average annual rates of growth for these groups were relatively small.



Table 3

Highest and Lowest Growth Districts  
and Number of Districts with Faster and Slower than Population Rates of Change<sup>1</sup>, 1981 to 1983

	Highest		Lowest		Number <sup>2</sup>	
	District	Rate of Change <sup>3</sup>	District	Rate of Change <sup>3</sup>	Faster than Pop.	Slower than Pop.
Audiologists and Speech-Language Pathologists**	Capital	22.37	Greater Vancouver	-0.52	2	1
Certified Dental Assistants*	Kitimat-Stikine	34.79	Kootenay Boundary	-7.18	21	3
Chiropractors*	Central Okanagan	17.78	Comox-Strathcona	-2.70	4	1
Dental Hygienists*	Central Fraser Valley	18.80	Fraser-Fort George	-2.05	6	1
Dental Laboratory Technicians*†	Non-Metropolitan <sup>4</sup>	4.16	Greater Vancouver	-3.03	2	1
Dental Mechanics*	Greater Vancouver	0.34	Capital	-0.71	1	2
Dentists*	Fraser-Cheam	12.10	Okanagan-Similkameen	-4.85	14	10
Diagnostic Medical Sonographers**	Non-Metropolitan <sup>4</sup>	14.71	Greater Vancouver	10.59	2	0
Food Service Supervisors***	Greater Vancouver	17.51	Non-Metropolitan <sup>4</sup>	16.64	2	0
Health Record Personnel**	Greater Vancouver	-0.87	Central Kootenay	-26.83	0	6
Licensed Practical Nurses*††	Columbia-Shuswap	9.60	Peace River-Liard	-13.70	7	20
Medical Laboratory Technologists**	Dewdney-Alouette	16.31	Powell River	-9.91	16	8
Medical Office Assistants***	Dewdney-Alouette	36.19	Okanagan-Similkameen	-23.50	7	3
Medical Radiation Technologists**	Kootenay Boundary	12.48	Cariboo	-16.16	6	12
Occupational Therapists***	Capital	4.62	Nanaimo	-30.83	2	2
Optometrists*	Other Non-Metro‡	3.88	Thompson-Nicola	-5.23	3‡	1
Pharmacists*	Kootenay Boundary	9.22	Squamish-Lillooet	-21.18	11	14
Physicians*	Alberni-Clayoquot	5.69	Peace River-Liard	-6.03	16	11
Physiotherapists*	Dewdney-Alouette	31.30	Powell River	-12.17	8	12
Psychologists*	Thompson-Nicola	2.13	Central Fraser Valley	-13.24	1	7
Public Health Inspectors***	Non-Metropolitan <sup>4</sup>	3.80	Greater Vancouver	-2.82	2	1
Registered Nurses*†††	Mount Waddington	9.29	Kitimat-Stikine	-6.42	17	11
Registered Psychiatric Nurses*	Cariboo	17.52	Fraser-Cheam	-8.39	10	8

<sup>1</sup> Excludes groups which do not have comparable data.

<sup>2</sup> Excludes from consideration, for each manpower group, districts with less than 10 personnel in the base period.

<sup>3</sup> Average annual percentage rate of change in personnel per 10,000 population.

<sup>4</sup> Where none of the non-metropolitan districts has ten or more personnel in that base period, non-metropolitan is treated as a district.

†† Includes only LPNs who indicated that they were employed in nursing.

††† Includes only RNs who indicated that they were employed in nursing.

\* Estimate based on reported active registrants. See note (1), Table 1.

\*\* Estimate based on reported active members. See note (1), Table 1.

\*\*\* Estimate based on all reported members. See note (1), Table 1.

‡ See text for explanation of other non-metro.



Table 3, page 10, provides more detailed information on personnel growth (or lack of it), relative to population growth, for groups which had comparable data in 1981 and 1983. In addition, the number of regions for which each manpower group grew at a pace faster, or a pace slower, than that of the respective regional populations, is reported. The sum of these latter two figures is always less than twenty-nine (the number of Regional Hospital Districts), since rates of growth were not computed in this report whenever the base (1981) stock for a district was less than ten. Where none of the non-metropolitan districts had ten or more personnel of a given type in 1981, *non-metropolitan* is treated as one district. Thus for dental laboratory technicians, diagnostic medical sonographers and public health inspectors, the non-metropolitan district showed the fastest growth relative to population over the period 1981-83. *Non-metropolitan* was treated as an RHD, where appropriate, for the purposes of the two right-hand columns of Table 3.

Where only one or a small number of non-metropolitan RHDs had the requisite base of ten personnel, the remaining non-metropolitan RHDs (each with fewer than ten personnel) were treated as the *other non-metro* RHD. In this situation, if the growth rate of these aggregated districts were to exceed or be lower than that of all districts with the requisite base stock, this *district* would be designated accordingly. For this period, only one group (optometrists) was so affected. *other non-metro* was not counted as an RHD for the purposes of the two right-hand columns of Table 3, except in the case of optometrists.

Caution must again be advised in interpreting these data, especially where large rates of change are concerned. Where these calculations are carried out from a small base figure (1981 distribution) small absolute differences appear magnified when only the rate is presented. This type of information may or may not be of value. One such instance is that of registered nurses in Mount Waddington. Table 3 indicates this region reported the highest rate of growth, 9.29 percent in contrast to Greater Vancouver which reported a rate of change slower than that for the population of the district, -2.82 percent. This translates to an increase of only 14 registered nurses in the former and an increase of 243 registered nurses in the latter region (Chapter 28). Population growth in the Greater Vancouver Regional Hospital District (in contrast to that in Mount Waddington) is the obvious cause of the statistical illusion. One can further explain the relatively large increase in the number of RNs in Mount Waddington by examining the increase in bed capacity of that district (from 70 to 82, as a result of an increase in one hospital).

Table 4

Production Index<sup>1</sup> for Selected<sup>2</sup> Health Manpower Groups, 1983,  
Showing Comparable Figures for 1979<sup>3</sup> and 1981<sup>3</sup>

MANPOWER GROUP	1983	1981	1979
Physicians <sup>4</sup>	51.6	65.4	63.2
Dentists	41.6	42.8	38.0
Dental Technicians/Mechanics	42.3	41.5	36.3
Dental Hygienists	25.7	22.4	17.7
Certified Dental Assistants	9.3	7.5	5.4
Pharmacists	24.1	22.0	20.8
Registered Nurses (Diploma & Baccalaureate) <sup>5</sup>	26.8	28.9	24.2
Registered Psychiatric Nurses	27.5	18.2	19.7
Licensed Practical Nurses <sup>6</sup>	19.5	22.6	16.2

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<sup>1</sup>Current Number Active: Number Graduating in 1983. Source of graduating figures: *PRODUCTION 83*

<sup>2</sup>Only those groups for which data are available on current number active *and* B.C. graduates, 1983, are included.

<sup>3</sup>Source: *PRODUCTION 81*

<sup>4</sup>Calculated using all Directory Active Physicians (including postgraduate).

<sup>5</sup>1981 and 1983 includes as numerator, Practising Employed Nurses; as denominator, all Diploma and Basic Baccalaureate graduates. In 1979 *all* graduates were included. An estimated comparable index is 27.4.

<sup>6</sup>Numerator includes *all* active registrants of the Council of Practical Nurses of B.C. regardless of employment status. Denominator includes students in the Basic Nursing program at Douglas College.



## Production Ratios

The figures in Table 4, page 12, are computed by combining data from this report with production figures from *PRODUCTION 83*. The production index is the ratio of the current number of active personnel to the number graduating during 1983. The index is reported only for selected groups which have registration stipulations. Physiotherapists, however, have been excluded because their training program also produces occupational therapists, but graduates cannot be distinguished by discipline (until after 1984).

It is interesting to note that the markedly higher ratio for physicians in 1979 and 1981 has decreased appreciably in 1983, clearly due to the increase in medical school enrollment. The dental manpower groups, by comparison, remain relatively stable, although a slow upward trend in the ratio of dental hygienists and certified dental assistants are detectable. Pharmacists also exhibit the same slight increase in production ratios over the four-year period. Registered psychiatric nurses show a large increase in this ratio due mainly to an increase in the number of registered members.

The slight decrease in the 1983 production ratios of registered nurses and licensed practical nurses can be safely attributed to the small changes in the number of active personnel.

In general, interpretation based solely on this index is impossible. A high ranking may or may not indicate surplus workers already in the field. It is equally probable that too few new personnel are being trained, or that both phenomena are interacting. What the index does portray is training flows relative to existing licensed or registered stock. When combined with other information on growth rates, surpluses or shortages, and/or possibilities for manpower substitution, the index may be employed as a tool in educational program planning.

**Table 5 Regional Hospital Districts with Highest and Lowest Personnel:Population Ratios, 1983**

	Highest		Lowest	
	District	Ratio <sup>a</sup>	District	Ratio <sup>a</sup>
Audiologists and Speech-Language Pathologists**	Capital	1.07	6 districts	0.0
Certified Dental Assistants*	Fraser-Fort George	11.69	Stikine ( Central Coast is second lowest)	0.0 3.18
Chiropractors*	Sunshine Coast	1.91	2 districts	0.0
Dental Hygienists*	Central Okanagan	2.71	2 districts	0.0
Dental Laboratory Technicians*†	Greater Vancouver	1.86	8 districts	0.0
Dental Mechanics*	Okanagan-Similkameen	1.53	4 districts	0.0
Dentists*	Greater Vancouver	8.00	Peace River-Liard	2.53
Diagnostic Medical Sonographers**	Skeena-Queen Charlotte	1.61	7 districts	0.0
Dietitians and Nutritionists***	Capital	2.49	4 districts	0.0
Food Service Supervisors***	Kootenay Boundary	1.20	7 districts	0.0
Health Record Personnel**	Sunshine Coast	1.91	2 districts	0.0
Health Services Executives***	Mount Waddington	3.22	Stikine ( Central Fraser Valley is second lowest)	0.0 0.49
Licensed Practical Nurses*††	Cowichan Valley	30.83	Central Coast	6.36
Medical Laboratory Technologists**	Kootenay Boundary	11.67	Stikine ( Central Coast is second lowest)	0.0 3.18
Medical Office Assistants***	Fraser-Fort George	8.90	11 districts	0.0
Medical Radiation Technologists**	Kootenay Boundary	4.19	Stikine ( Alberni-Clayoquot is second lowest)	0.0 1.21
Naturopaths*	Central Fraser Valley	0.33	20 districts	0.0
Occupational Therapists***	Central Coast	3.18	7 districts	0.0
Optometrists*	Sunshine Coast	1.91	4 districts	0.0
Osteopaths*	Capital	2.49	4 districts	0.0
Pharmacists*	Greater Vancouver	9.20	Stikine ( Central Coast is second lowest)	0.0 3.18
Physicians*	Greater Vancouver	29.43	Peace River-Liard	8.28
Physiotherapists*	Capital	6.56	2 districts	0.0
Podiatrists*	Capital	0.28	22 districts	0.0
Prosthetists and Orthotists**	Capital	0.28	22 districts	0.0
Psychologists*	Capital	4.74	3 districts	0.0
Public Health Inspectors***	Sunshine Coast	1.91	3 districts	0.0
Registered Nurses*†††	Capital	93.67	Bulkley-Nechako	34.19
Registered Psychiatric Nurses*	Dewdney-Alouette	48.96	Stikine ( Alberni-Clayoquot is second lowest)	0.0 1.21
Respiratory Technologists***	Thompson-Nicola	1.80	16 districts	0.0

(continued)



Table 5(continued)

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<sup>1</sup>	For definitions see note (1), Table 1.
<sup>2</sup>	Number per 10,000 population.
†	Includes only licensed dental laboratory technicians.
††	Includes only LPNs who indicated that they were employed in nursing.
†††	Includes only RNs who indicated that they were employed in nursing.
*	Estimate based on reported active registrants. See note (1), Table 1.
**	Estimate based on reported active members. See note (1), Table 1.
***	Estimate based on all reported members. See note (1), Table 1.

### Inter-Regional Distribution

Tables 5 to 8 illustrate, in different ways, the distribution of health manpower throughout the province in 1983. While personnel:population ratios are problematic as bases for planning purposes because they are not necessarily indicative of underlying needs, they do provide a starting point by identifying areas which require further investigation. Some districts may have high ratios because they contain a specialized facility which is the principal employer for a manpower group, but which also requires a large catchment area. That ratio, in such an instance, would not necessarily indicate a surplus situation, just as low ratios in the other districts of that catchment area need not imply shortages. For certain groups, there may be economies of scale in increasing numbers. In such instances, high population districts may show lower ratios simply because a certain minimum number of personnel are required in low population districts, but in those districts they are not fully utilized (i.e. an increase in population would not immediately necessitate the hiring of additional personnel of that type).

Table 5 is patterned after Table 3. For each group, the districts with the highest and lowest personnel per 10,000 population ratios are reported. Where the lowest ratio was 0.0, but only one district reported no personnel, the second lowest ratio is also reported. Thus, Stikine has no personnel in most manpower categories, but it often has the company of a group with a ratio close to 0.0. Even where it is the only district with that distinction, for groups such as health services executives and medical radiation technologists, the ratio for the second least well-endowed district is also low (<2.0). Greater Vancouver, the most populated district, also claims the highest physician:population ratio (29.4), although the Capital region has the highest ratio of non-postgraduate physicians. The figures for the other districts range all the way down to 8.3 for Peace River-Liard.

The extremely high ratio of registered nurses in the Capital region may be a function of that district's demography. The distribution of registered psychiatric nurses is also interesting. A small number of relatively large employing institutions, located in the Greater Vancouver Regional Hospital District, are situated at close proximity to the border with Dewdney-Alouette. Thus, many of the RPN staff of those institutions likely reside in the latter district, and location of residence was used in this report to allocate RPNs by Regional Hospital District. In contrast to Dewdney-Alouette's 49.0 RPNS per 10,000 population, Greater Vancouver's ratio is a mere 11.7, still well above the provincial figure of 8.8 and, in fact, the fourth highest ratio among the twenty-nine RHDs. Licensed practical nurses also vary widely in distribution ranging from a low of 6.4 in Central Coast and almost as low in Mount Waddington, Squamish-Lillooet, and Stikine, to a high of 30.8 in Cowichan Valley, closely matched by high ratios in Kootenay Boundary and Central Kootenay.



Table 6 Correlation of Inter-Regional Personnel:Population Ratios, 1983

	Audiologists and Speech- Language Pathologists**	Certified Dental Assistants*	Chiropractors*	Dental Hygienists*	Dental Laboratory Technicians*†	Dental Mechanics*	Dentists*	Diagnostic Medical Sonographers**	Dietitians and Nutritionists***	Food Service Supervisors***	Health Record Personnel**	Health Services Executives***	Licensed Practical Nurses*††	Medical Laboratory Technologists**	Medical Office Assistants***	Medical Radiation Technologists**	Occupational Therapists***	Optometrists*	Pharmacists*	Physicians*	Physiotherapists*	Psychologists*	Public Health Inspectors***	Registered Nurses*†††	Registered Psychiatric Nurses*	Respiratory Technologists***
Audiologists and Speech- Language Pathologists**	1.00																									
Certified Dental Assistants*	0.33	1.00																								
Chiropractors*	0.12	0.39	1.00																							
Dental Hygienists*	0.29	0.37	0.41	1.00																						
Dental Laboratory Technicians*†	0.46	0.42	0.40	0.51	1.00																					
Dental Mechanics*	0.06	0.41	0.71	0.41	0.46	1.00																				
Dentists*	0.36	0.26	0.45	0.60	0.64	0.42	1.00																			
Diagnostic Medical Sonographers**	0.27	0.05	0.30	0.19	0.01	0.19	0.24	1.00																		
Dietitians and Nutritionists	0.52	0.33	0.43	0.46	0.84	0.49	0.63	0.27	1.00																	
Food Service Supervisors***	0.13	0.13	0.50	0.32	0.29	0.59	0.35	0.19	0.25	1.00																
Health Record Personnel**	0.25	0.24	0.38	0.12	-0.02	0.27	0.06	0.21	0.07	0.34	1.00															
Health Services Executives**	-0.26	-0.23	-0.26	-0.17	-0.12	-0.21	-0.14	-0.17	-0.15	0.10	0.02	1.00														
Licensed Practical Nurses*††	0.29	0.35	0.39	0.06	0.29	0.56	0.23	0.35	0.37	0.49	0.31	-0.15	1.00													
Medical Laboratory Technologists**	0.32	0.28	0.43	0.29	0.54	0.41	0.29	0.16	0.49	0.56	0.41	0.18	0.50	1.00												
Medical Office Assistants***	0.39	0.41	0.36	0.32	0.43	0.23	0.22	-0.11	0.25	0.09	0.08	-0.33	0.13	0.29	1.00											
Medical Radiation Technologists**	0.23	-0	0.24	0.42	0.33	0.06	0.31	0.24	0.35	0.20	0.16	0.40	0.14	0.56	0.10	1.00										
Occupational Therapists***	0.06	-0.09	-0.06	-0.02	0.34	0.00	0.16	-0.10	0.25	-0.05	-0.27	0.40	-0.16	0.16	0.08	0.35	1.00									
Optometrists*	0.05	0.23	0.42	0.27	0.04	0.25	0.19	0.20	0.26	-0.02	0.40	-0.15	0.13	0.33	0.13	0.28	-0.18	1.00								
Pharmacists*	0.38	0.43	0.53	0.57	0.68	0.58	0.62	0.27	0.66	0.53	0.38	0.16	0.51	0.80	0.19	0.55	0.21	0.33	1.00							
Physicians*	0.28	-0.11	-0.01	0.27	0.57	0.18	0.64	0.13	0.52	0.17	-0.32	0.19	0.10	0.25	0.10	0.31	0.68	-0.13	0.44	1.00						
Physiotherapists*	0.34	0.34	0.49	0.59	0.51	0.68	0.61	0.32	0.62	0.51	0.22	0.04	0.47	0.61	0.16	0.48	0.34	0.42	0.77	0.55	1.00					
Psychologists*	0.34	0.32	0.32	0.44	0.78	0.34	0.66	-0.05	0.73	0.31	0.16	0.08	0.26	0.52	0.26	0.46	0.29	0.28	0.65	0.53	0.56	1.00				
Public Health Inspectors***	0.18	0.13	0.51	0.04	0.09	0.27	0.25	0.47	0.33	0.10	0.51	-0.18	0.24	0.39	-0.00	0.29	-0.13	0.67	0.38	-0.05	0.32	0.26	1.00			
Registered Nurses*†††	0.31	0.12	0.27	0.29	0.64	0.39	0.48	0.24	0.65	0.43	0.04	0.26	0.46	0.65	0.28	0.52	0.53	0.16	0.68	0.75	0.69	0.68	0.18	1.00		
Registered Psychiatric Nurse	0.38	0.11	0.15	-0.07	0.30	0.03	-0.07	-0.08	0.22	0.20	0.28	-0.15	0.13	0.39	0.43	0.07	0.25	-0.05	0.10	0.04	0.09	0.14	0.13	0.25	1.00	
Respiratory Technologists***	0.26	0.16	0.10	0.36	0.51	0.32	0.19	-0.03	0.56	0.01	0.04	-0.05	0.25	0.45	0.23	0.13	0.19	0.19	0.49	0.38	0.46	0.42	0.06	0.55	0.14	1.00

† Includes only licensed dental laboratory technicians.

†† Includes only LPNs who indicated that they were employed in nursing.

††† Includes only RNs who indicated that they were employed in nursing.

\* Estimate based on reported active registrants. See note (1), Table 1.

\*\* Estimate based on reported active members. See note (1), Table 1.

\*\*\* Estimate based on all reported members. See note (1), Table 1.

Table 6, page 16, goes beyond looking at the ratio extremes to consider the correlations between personnel:population ratios. In particular, the figures represent the correlation of each group ratio with the ratios across districts of every other group.

As expected, the correlation between physician ratio and other personnel ratios are relatively high; with registered nurses, 0.75; with dental laboratory technicians, 0.57; with occupational therapists, 0.68; and with physiotherapists, 0.55. However, these correlations are somewhat lower than those presented in *ROLLCALL 81*.

Unlike the *ROLLCALL 81* results, the personnel:population ratio for dentists shows positive correlation with the ratios of both certified dental assistants and dental hygienists. Registered nurses are highly correlated with a number of other groups.



Table 7  
Rank of Health Manpower Groups by  
Metropolitan:Non-Metropolitan Ratio<sup>1</sup>, 1983

	Ratio	
	<u>1983</u>	<u>1981</u>
Occupational Therapists***	3.70	3.32
Psychologists*	3.60	3.21
Dental Laboratory Technicians*†	3.40	3.85
Dietitians and Nutritionists***	2.94	‡
Audiologists and Speech- Language Pathologists**	2.28	2.85
Physicians*	2.19	2.12
Dental Hygienists*	2.09	2.05
Respiratory Technologists***	2.04	‡
Physiotherapists*	1.84	1.80
Food Service Supervisors***	1.83	1.77
Pharmacists*	1.74	1.63
Dentists*	1.74	1.79
Registered Psychiatric Nurses*	1.55	1.50
Registered Nurses*†††	1.52	1.50
Medical Laboratory Technologists**	1.46	1.49
Medical Radiation Technologists**	1.46	1.52
Diagnostic Medical Sonographers**	1.43	1.52
Health Services Executives***	1.37	‡
Dental Mechanics*	1.27	1.25
Health Record Personnel**	1.09	1.02
Public Health Inspectors***	1.01	1.14
Certified Dental Assistants*	0.96	0.97
Chiropractors*	0.96	0.94
Optometrists*	0.91	0.91
Licensed Practical Nurses*††	0.86	0.87
Medical Office Assistants***	0.83	0.79

(continued)

Table 7(continued)

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<sup>1</sup>  $\frac{(\text{Personnel}/10,000 \text{ population}) \text{ in metropolitan regions}}{(\text{Personnel}/10,000 \text{ population}) \text{ in non-metropolitan regions}}$

† Includes only licensed dental laboratory technicians.

†† Includes only LPNs who indicated that they were employed in nursing.

††† Includes only RNs who indicated that they were employed in nursing.

\* Estimate based on reported active registrants. See note (1), Table 1.

\*\* Estimate based on reported active members. See note (1), Table 1.

\*\*\* Estimate based on all reported members. See note (1), Table 1.

‡ 1981 and 1983 data are not comparable for reasons outlined in the group-specific chapter.

In Table 7, page 18, metropolitan and non-metropolitan supply ratios are compared. A value of 1.0 for the metropolitan: non-metropolitan ratio would indicate that, for the given group, the personnel:population ratio in the combined metropolitan regions was equal to the ratio for all non-metropolitan regions combined. Again, only groups with at least one hundred personnel in the province in 1983 are included.

In general, the ordinal rankings in the two years are quite similar. Occupational therapists and psychologists showed the most disparity in 1983 even increasing the *favouring* of metropolitan regions over the two-year period. Dental laboratory technicians and audiologists and speech-language pathologists reported an appreciable shift in the opposite direction, remaining high, nevertheless, in the rank-order list. Lesser shifts in relative supply, moving away from *favouring* metropolitan areas, were dentists (unlike previous years), medical radiation technologists, diagnostic medical sonographers, and public health inspectors. For the third two-year period in a row, the relative supply of licensed physicians widened slightly in *favour* of metropolitan regions.



Table 8

Dispersion of Health Personnel<sup>1</sup> Across Non-Metropolitan Districts,  
1981 and 1983, Ranked by Coefficient of Variation, 1983

	<u>1983 Coefficient</u>	<u>1981<sup>1</sup> Coefficient</u>
Occupational Therapists***	138.9	71.4
Registered Psychiatric Nurses*	135.5	132.2
Medical Office Assistants***	102.5	96.6
Food Service Supervisors***	77.0	81.5
Health Services Executives***	75.6	‡
Audiologists and Speech- Language Pathologists**	74.4	86.4
Dental Mechanics*	63.8	55.6
Dental Laboratory Technicians*†	63.2	66.3
Optometrists*	61.1	60.4
Public Health Inspectors***	60.9	45.5
Dental Hygienists*	59.0	62.8
Psychologists*	56.9	56.0
Dietitians and Nutritionists***	55.2	‡
Chiropractors*	46.1	48.1
Physiotherapists*	45.0	43.9
Health Record Personnel**	41.7	53.9
Certified Dental Assistants*	35.8	35.2
Licensed Practical Nurses*††	35.3	38.4
Medical Laboratory Technologists**	33.9	34.1
Medical Radiation Technologists**	33.0	32.8
Pharmacists*	29.8	28.0
Physicians*	27.4	24.2
Dentists*	21.0	34.2
Registered Nurses*†††	20.3	20.2

(continued)



Table 8(continued)

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- <sup>1</sup> See note (1), Table 1.
- <sup>2</sup>  $\frac{d}{\mu} \times 100$ . Calculations based on workers/10,000 population in each non-metropolitan Regional Hospital District.
- <sup>3</sup> Coefficients differ from 1981 coefficients appearing in *ROLLCALL 81* because rates were calculated from different population figures. See Appendix A.
- † Includes only licensed dental laboratory technicians.
- †† Includes only LPNs who indicated that they were employed in nursing.
- ††† Includes only RNs who indicated that they were employed in nursing.
- \* Estimate based on reported active registrants. See note (1), Table 1.
- \*\* Estimate based on reported active members. See note (1), Table 1.
- \*\*\* Estimate based on all reported members. See note (1), Table 1.
- ‡ 1981 and 1983 data are not comparable for reasons outlined in the group-specific chapter.

In Table 8, page 20, attention is focused on the twenty-seven non-metropolitan districts, and the twenty-four groups with at least fifty registrants or members in non-metropolitan districts. By comparing the cross-regional standard deviation in personnel:population ratios to the mean, for each group, one gains a sense of their relative degrees of dispersion. Of course, if all districts had identical personnel:population ratios for a given group, the coefficient of variation (standard deviation/mean) would have a value of zero. The larger the coefficient, the less evenly distributed are the personnel.

Large shifts of occupational therapists in and out of several non-metropolitan regions, combined with a fairly small base, account for the appreciable disparity between the 1983 and 1981 coefficients. The fact that registered psychiatric nurses are among those at the top of this list is not surprising in light of our earlier discussion concerning Table 5. Note that the RPNs occupied the top rung in 1979 and 1981. The very large standard deviation for this group is almost entirely a result of the extremely high ratio in Dewdney-Alouette. The groups whose members were most evenly distributed across the non-metropolitan districts were registered nurses and dentists. It is interesting to note that cross-regional disparity in physician:population ratios for non-metropolitan regions has increased since 1981, while that in dentist:population ratios have decreased markedly in the same period. Other groups reporting decreased cross-regional disparity in personnel:population ratios for non-metropolitan regions include food service supervisors, dental hygienists, chiropractors, licensed practical nurses and, most notably, audiologists.



## INTRODUCTION TO THE CHAPTERS

The remainder of the report is partitioned into manpower 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 map of Regional Hospital Districts whose shaded densities reflect the actual worker/population ratios. The greater the variation of shades in each map the greater the magnitude of differences in ratios among the districts. The legend in each map gives sample densities and their corresponding ratios; these should permit the reader to gain a rapid visual impression of the manpower distribution across Regional Hospital Districts.

Following the thirty manpower group chapters are a number of appendices providing provincial data on population, hospital bed supply, and the number of retail pharmacies.



**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 apparatus, 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 exercises and programs to correct stuttering, abnormal articulation and other disorders. Provides speech training for patient with communication problems caused by cerebral palsy, surgical removal of larynx, 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 apparatus."<sup>2</sup>

**Date of Record:** September 1981 and May 1983.

**Source of Data:** British Columbia Speech and Hearing Association(BCSHA)<sup>3</sup>

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<sup>1</sup>*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

<sup>3</sup>Compulsory registration and/or licensure do not exist. Membership in the British Columbia Speech and Hearing Association is voluntary.

**Preparation and Updating:**

The table, derived solely from the membership list supplied by the British Columbia Speech and Hearing Association, includes *Full*, *Associate* and *Student* Members with a B.C. address at the date of record.

**Definition of terms:****Membership status<sup>4</sup>**

*Full* members are audiologists and speech pathologists whose number of credit hours in designated areas of study correspond to the criteria specified by the BCSHA and who may or may not be employed in the field.

*Associate* members are audiologists and speech pathologists whose number of credit hours in designated areas of study do not correspond to the criteria specified by the BCSHA and who may or may not be employed in the field. Others eligible for Associate membership include anyone interested in the field.

*Student* members include those individuals in full-time study at a recognized school of audiology and speech-language pathology.

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<sup>4</sup>From information provided by the British Columbia Speech and Hearing Association.



*Audiologists and Speech/Language  
Pathologists (Full Members)  
per 10,000 Population  
by Regional Hospital District  
May 1983*

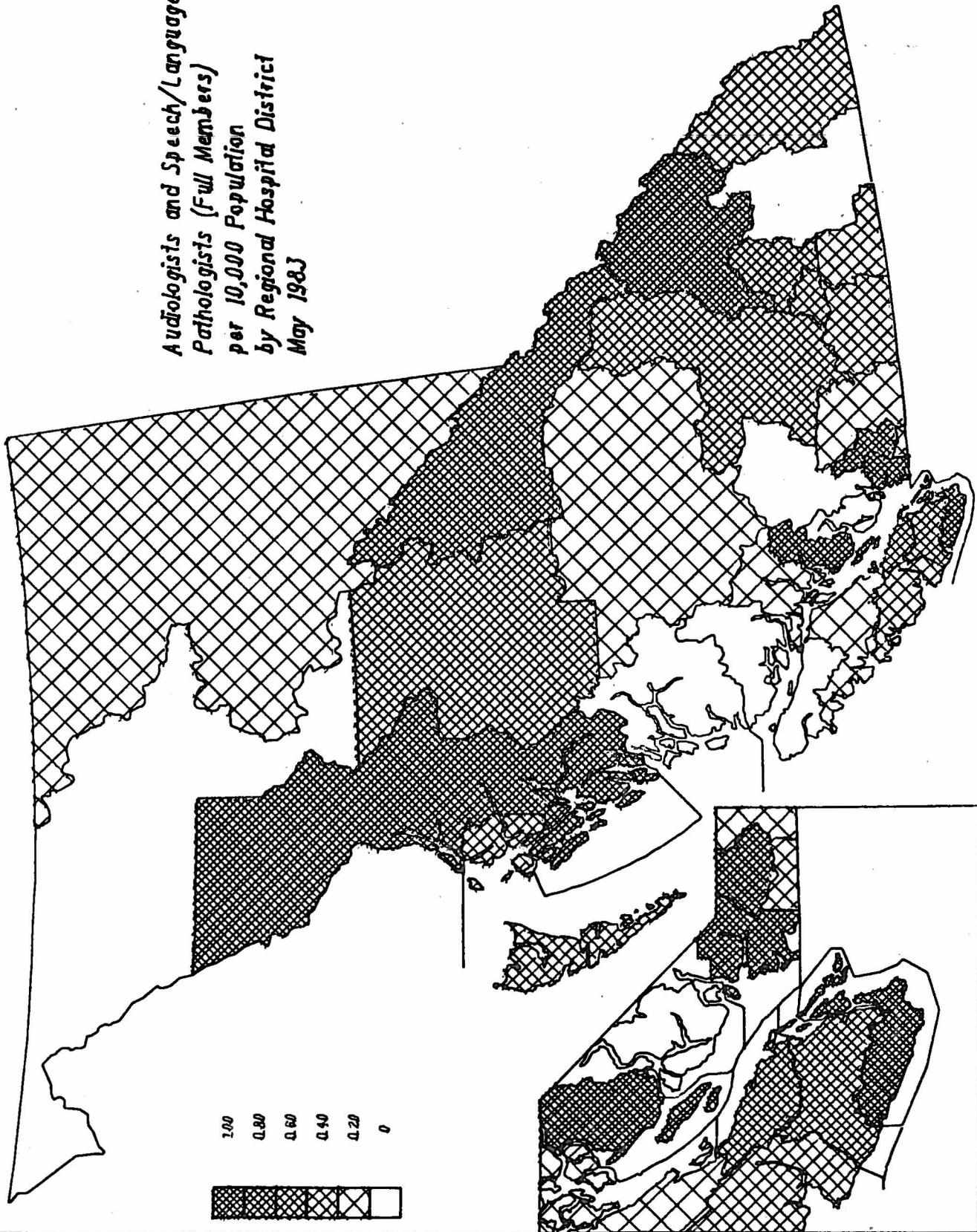




Table 1

**Audiologists and Speech-Language Pathologists<sup>1</sup>**  
**in British Columbia by Membership Status by Regional Hospital District**  
**September 1981 and May 1983**

Regional Hospital District	Full						Associate		Student	Total	
	Number		Number per 10,000 Population		Average Annual <sup>2</sup> Rate of Change		Number		Number	Number	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>	1981 <sup>5</sup>	1983	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>44</b>	<b>59</b>	<b>0.33</b>	<b>0.43</b>	<b>19.24</b>	<b>16.56</b>	<b>9</b>	<b>17</b>	<b>3</b>	<b>53</b>	<b>79</b>
1 Alberni-Clayoquot	2	1	0.61	0.30	*	*	0	1	0	2	2
2 Bulkley-Nechako	0	2	0.0	0.50	*	*	0	0	0	0	2
4 Cariboo	0	1	0.0	0.16	*	*	1	2	0	1	3
5 Central Coast	0	0	0.0	0.0	*	*	0	0	0	0	0
6 Central Fraser Valley	3	3	0.26	0.25	*	*	1	2	2	4	7
7 Central Kootenay	1	0	0.19	0.0	*	*	1	0	0	2	0
8 Central Okanagan	4	4	0.47	0.45	*	*	0	1	0	4	5
9 Columbia-Shuswap	1	4	0.25	0.96	*	*	0	0	0	1	4
10 Comox-Strathcona	2	1	0.29	0.14	*	*	2	1	0	4	2
11 Cowichan Valley	1	3	0.19	0.55	*	*	0	0	0	1	3
12 Dewdney-Alouette	3	6	0.48	0.94	*	*	0	1	0	3	7
13 East Kootenay	1	2	0.19	0.36	*	*	0	1	0	1	3
14 Fraser-Cheam	1	1	0.18	0.17	*	*	1	1	0	2	2
15 Fraser-Fort George	4	7	0.45	0.75	*	*	1	1	0	5	8
17 Kitimat-Stikine	3	4	0.71	0.90	*	*	0	0	0	3	4
18 Kootenay Boundary	0	1	0.0	0.30	*	*	0	0	0	0	1
19 Mount Waddington	0	0	0.0	0.0	*	*	0	0	0	0	0
20 Nanaimo	7	5	0.91	0.62	*	*	1	0	0	8	5
21 North Okanagan	2	3	0.37	0.53	*	*	0	1	0	2	4
22 Okanagan-Similkameen	0	2	0.0	0.34	*	*	0	0	0	0	2
23 Peace River-Liard	2	1	0.36	0.17	*	*	0	3	0	2	4
24 Powell River	2	2	1.03	1.02	*	*	1	0	1	3	3
25 Skeena-Queen Charlotte	1	1	0.42	0.40	*	*	0	0	0	1	1
26 Squamish-Lillooet	0	0	0.0	0.0	*	*	0	1	0	0	1
27 Stikine	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
29 Thompson-Nicola	4	5	0.39	0.47	*	*	0	1	0	4	6
<b>Metropolitan - Subtotal</b>	<b>133</b>	<b>142</b>	<b>0.94</b>	<b>0.98</b>	<b>4.01</b>	<b>2.95</b>	<b>22</b>	<b>6</b>	<b>2</b>	<b>155</b>	<b>150</b>
3 Capital	19	27	0.76	1.07	23.47	22.37	2	0	0	21	27
16 Greater Vancouver	114	115	0.97	0.97	0.53	-0.52	20	6	2	134	123
<b>TOTAL</b>	<b>178<sup>5</sup></b>	<b>201</b>	<b>0.64<sup>5</sup></b>	<b>0.71</b>	<b>7.56<sup>5</sup></b>	<b>6.43<sup>5</sup></b>	<b>31</b>	<b>23</b>	<b>5</b>	<b>209<sup>5</sup></b>	<b>229</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> Rate of change (in percent) in the number.

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

<sup>5</sup> 1981 Associate Members also included students.

<sup>6</sup> One active member with location unknown has been included in the total.

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

Prepared by:

Health Manpower Research Unit  
The University of British Columbia



## **CERTIFIED DENTAL ASSISTANTS**

## CERTIFIED DENTAL ASSISTANTS

**Definition:** A certified dental assistant (registered dental auxiliary 1):

May, in addition to the duties and technical procedures delegated to dental assistants (non-registered chairside dental auxiliaries)<sup>1</sup>, be delegated the following duties and technical procedures under the personal supervision of a licensed member of the College:

- "- The polishing of clinical crowns of teeth with rubber cup or brush and polishing pastes.
- The application of topical anticariogenic agents.
- The taking of initial study model impressions.
- The application of fissure sealants.
- The evaluation of dietary habits and provision of nutritional counselling as it pertains to dentistry.
- The provision of simple screening tests for diabetes and hypoglycemia.
- The taking and preparation of oral cytologic smears.
- The taking of bacterial cultures.
- The testing of caries susceptibility in patients.
- The provision of instruction in the use and maintenance of partial and complete dentures and other appliances.
- The removal of sutures.
- The placement and removal of matrices and wedges.
- The performance of first-aid procedures."<sup>2</sup>

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

- " - The provision of instructions in placement and care of removable orthodontic appliances.
- The tying-in of arch wires that have been prepared and fitted intra-orally by a Member.
- The removal of orthodontic arch wire.
- The removal of excess cement following cementation of orthodontic bands.

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<sup>1</sup>*Regulations of The College of Dental Surgeons of British Columbia, Ancillary Bodies*, revised March 1981, Section 82.

<sup>2</sup>*Ibid.*, Section 83.

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

- The fitting of orthodontic bands prior to assessment by a Member.
- The taking of impressions for the fabrication of orthodontic appliances.
- The fitting of space maintainers prior to assessment by a Member.
- The removal of orthodontic bands.
- The preparation of teeth for direct bonding of attachments.
- The application of wax or other material to offending components or removal of offending components."<sup>3</sup>

Date of Record: September 1981 and September 1983.

Source of Data: The College of Dental Surgeons of British Columbia.<sup>4</sup>

Preparation and Updating:

Notification of new registrants or change in location is received by the Health Manpower Research Unit from the College of Dental Surgeons of British Columbia on a monthly basis. These updates are entered, after careful editing and reconciliation of inconsistencies, into *CDAFILE*, a dynamic computer-based file.

The table includes licensed certified dental assistants who were B.C. residents at the date of record.

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<sup>3</sup>*Regulations*, Op. Cit., Section 84.

<sup>4</sup>In order to practice as a certified dental assistant in British Columbia, it is necessary to be registered by the College of Dental Surgeons and to hold a valid licence.

*Licensed Certified Dental Assistants  
per 10,000 Population  
by Regional Hospital District  
September 1983*

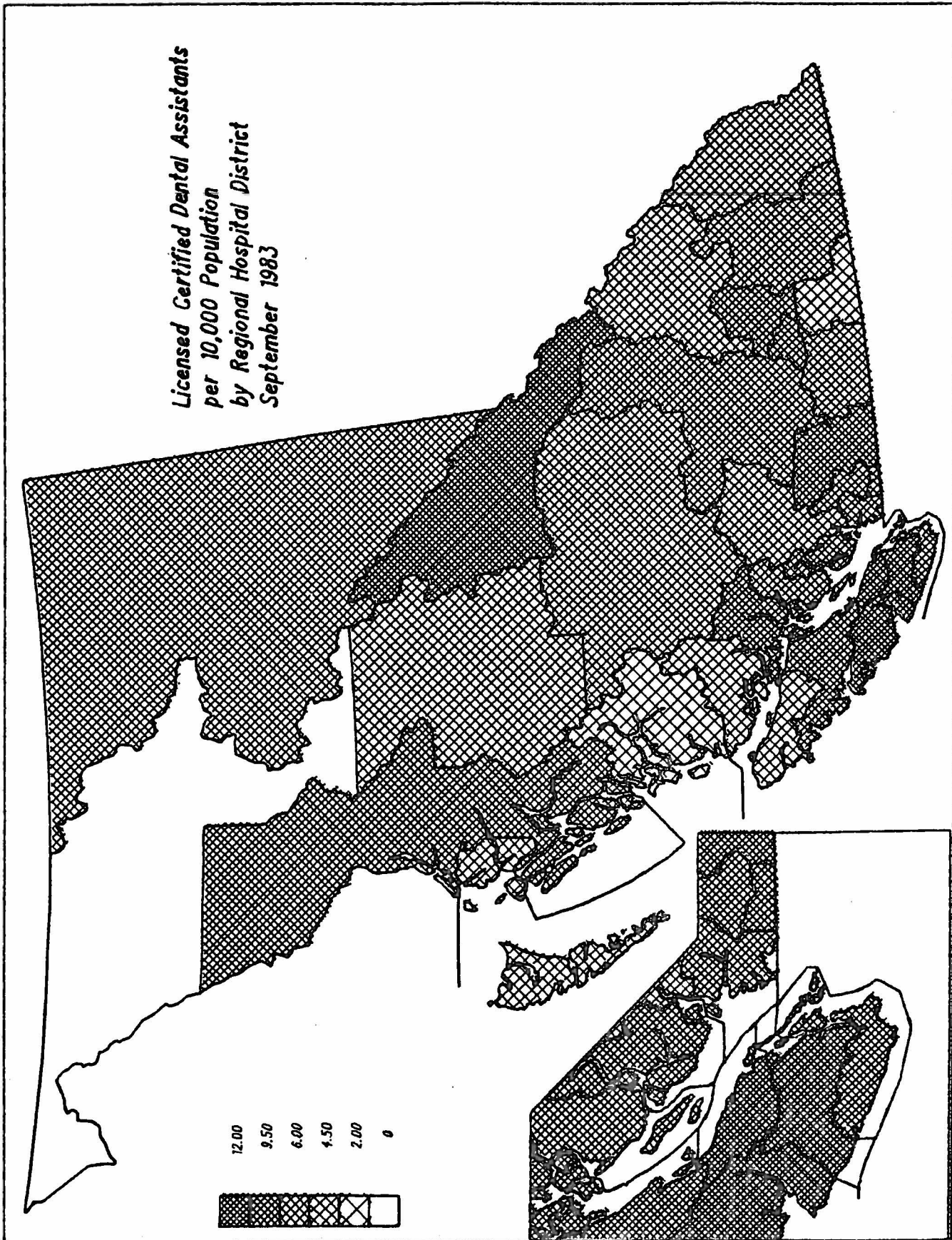


Table 1

Licensed Certified Dental Assistants<sup>1</sup> in British Columbia

## by Regional Hospital District

September 1981 and September 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>904</b>	<b>1,100</b>	<b>6.82</b>	<b>7.99</b>	<b>10.31</b>	<b>8.24</b>
1 Alberni-Clayoquot	35	38	10.75	11.50	4.20	3.45
2 Bulkley-Nechako	17	20	4.44	4.99	8.47	6.06
4 Cariboo	32	37	5.40	5.99	7.53	5.28
5 Central Coast	1	1	3.28	3.18	*	*
6 Central Fraser Valley	81	101	7.04	8.26	11.67	8.32
7 Central Kootenay	40	36	7.69	6.79	-5.13	-6.01
8 Central Okanagan	57	73	6.69	8.25	13.17	11.07
9 Columbia-Shuswap	13	21	3.24	5.03	27.10	24.59
10 Comox-Strathcona	63	66	9.18	9.19	2.35	0.05
11 Cowichan Valley	47	60	8.92	11.01	12.99	11.12
12 Dewdney-Alouette	41	51	6.61	7.98	11.53	9.84
13 East Kootenay	17	30	3.16	5.37	32.84	30.28
14 Fraser-Cheam	49	56	8.61	9.61	6.90	5.69
15 Fraser-Fort George	98	109	10.96	11.69	5.46	3.30
17 Kitimat-Stikine	19	36	4.48	8.14	37.65	34.79
18 Kootenay Boundary	15	13	4.51	3.89	-6.91	-7.18
19 Mount Waddington	9	7	6.13	4.51	*	*
20 Nanaimo	80	93	10.38	11.54	7.82	5.47
21 North Okanagan	36	47	6.62	8.32	14.26	12.05
22 Okanagan-Similkameen	21	39	3.67	6.63	36.28	34.39
23 Peace River-Liard	41	39	7.39	6.59	-2.47	-5.58
24 Powell River	11	14	5.68	7.17	12.82	12.36
25 Skeena-Queen Charlotte	8	11	3.33	4.42	*	*
26 Squamish-Lillooet	7	11	3.70	5.62	*	*
27 Stikine	1	0	5.12	0.0	*	*
28 Sunshine Coast	10	13	6.45	8.29	14.02	13.34
29 Thompson-Nicola	55	78	5.39	7.41	19.09	17.20
<b>Metropolitan - Subtotal</b>	<b>936</b>	<b>1,105</b>	<b>6.59</b>	<b>7.65</b>	<b>8.65</b>	<b>7.74</b>
3 Capital	182	211	7.30	8.33	7.67	6.87
16 Greater Vancouver	754	894	6.45	7.51	8.89	7.95
<b>TOTAL</b>	<b>1,840</b>	<b>2,205</b>	<b>6.70</b>	<b>7.82</b>	<b>9.47</b>	<b>7.99</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 Manpower Research Unit  
The University of British Columbia





## CHIROPRACTORS



## CHIROPRACTORS

**Definition:** A chiropractor;

"Adjusts spinal column and other articulations to treat disorders of human body believed to be caused by interference with nervous system;

Examines, questions and observes patient to diagnose extent of illness or disorder. Performs spinal-analysis and uses X-rays to aid in diagnosis. Adjusts position of displaced vertebrae and other articulations, using manipulative therapy. Prescribes corrective exercises."<sup>1</sup>

**Date of Record:** December 1981 and August 1983.

**Source of Data:** British Columbia Chiropractic Association.<sup>2</sup>

**Preparation and Updating:**

The table, derived from the *Register* issued by the British Columbia Chiropractic Association, includes registered chiropractors who reported a B.C. address at the date of record.

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<sup>1</sup>Definition from the British Columbia Chiropractic Association.

<sup>2</sup>In order to practice as a chiropractor in British Columbia, it is necessary to be registered by the British Columbia Chiropractic Association and hold a valid license.

*Licensed Chiropractors  
per 10,000 Population  
by Regional Hospital District  
August 1983*

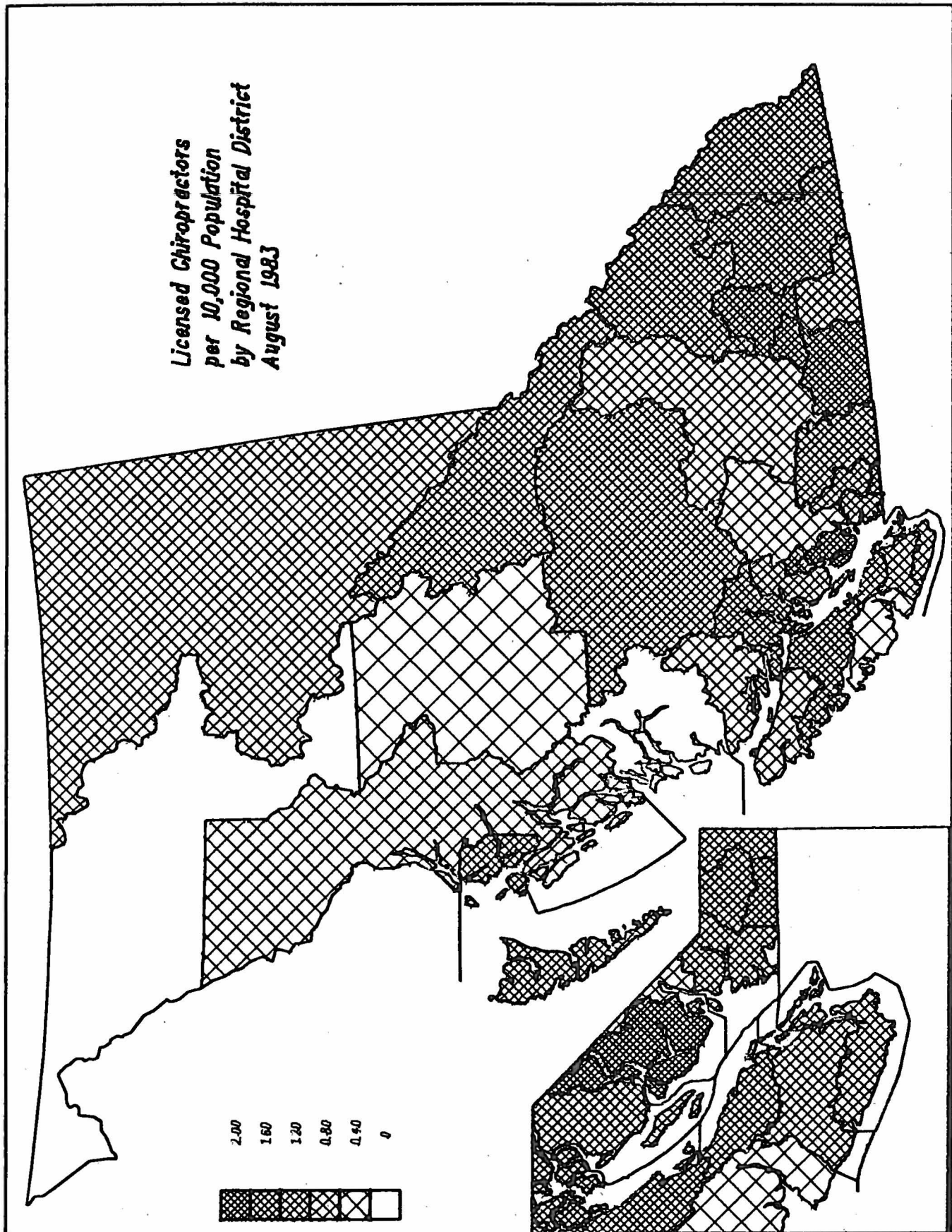


Table 1

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

## by Regional Hospital District

December 1981 and August 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>146</b>	<b>155</b>	<b>1.10</b>	<b>1.13</b>	<b>3.65</b>	<b>1.32</b>
1 Alberni-Clayoquot	2	1	0.61	0.30	*	*
2 Bulkley-Nechako	1	1	0.26	0.25	*	*
4 Cariboo	7	7	1.18	1.13	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	15	17	1.30	1.39	7.80	3.93
7 Central Kootenay	7	7	1.34	1.32	*	*
8 Central Okanagan	11	15	1.29	1.70	20.45	17.78
9 Columbia-Shuswap	4	5	1.00	1.20	*	*
10 Comox-Strathcona	10	10	1.46	1.39	0.00	-2.70
11 Cowichan Valley	4	5	0.76	0.92	*	*
12 Dewdney-Alouette	9	8	1.45	1.25	*	*
13 East Kootenay	6	7	1.12	1.25	*	*
14 Fraser-Cheam	6	7	1.05	1.20	*	*
15 Fraser-Fort George	9	10	1.01	1.07	*	*
17 Kitimat-Stikine	2	2	0.47	0.45	*	*
18 Kootenay Boundary	4	3	1.20	0.90	*	*
19 Mount Waddington	1	1	0.68	0.64	*	*
20 Nanaimo	8	10	1.04	1.24	*	*
21 North Okanagan	8	9	1.47	1.59	*	*
22 Okanagan-Similkameen	9	10	1.57	1.70	*	*
23 Peace River-Liard	6	4	1.08	0.68	*	*
24 Powell River	2	2	1.03	1.02	*	*
25 Skeena-Queen Charlotte	3	3	1.25	1.20	*	*
26 Squamish-Lillooet	1	1	0.53	0.51	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	4	3	2.58	1.91	*	*
29 Thompson-Nicola	7	7	0.69	0.66	*	*
<b>Metropolitan - Subtotal</b>	<b>146</b>	<b>156</b>	<b>1.03</b>	<b>1.08</b>	<b>4.06</b>	<b>3.00</b>
3 Capital	22	24	0.88	0.95	5.36	4.42
16 Greater Vancouver	124	132	1.06	1.11	3.82	2.75
<b>TOTAL</b>	<b>292</b>	<b>311</b>	<b>1.06</b>	<b>1.10</b>	<b>3.85</b>	<b>2.18</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> 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 Manpower Research Unit  
The University of British Columbia



## DENTAL HYGIENISTS

## DENTAL HYGIENISTS

**Definition:** A dental hygienist (registered dental auxiliary II):

May, in addition to the duties and technical procedures delegated to dental assistants (non-registered chairside dental auxiliaries) and certified dental assistants (registered dental auxiliaries I)<sup>1</sup>, be delegated the following duties and technical procedures under the direction of a licensed member of the College:

- " - The examination of the head and neck as it pertains to dentistry.
- The examination of the intra-oral structures.
- The taking of pulp vitality tests.
- The placement and removal of temporary restorations.
- The application and removal of periodontal dressings.
- The removal of supra and subgingival calculus.
- The curettage and root planing of tooth surfaces.
- The recontouring of existing restorations.
- The desensitization of hypersensitive teeth.
- After the successful completion of approved training, and performed only under the personal supervision of a licensed Member, the administration of local anaesthetics."<sup>2</sup>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** The College of Dental Surgeons of British Columbia.<sup>3</sup>

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<sup>1</sup>*Regulations of The College of Dental Surgeons of British Columbia*, Ancillary Bodies, revised March 1981, Sections 82 and 83.

<sup>2</sup>*Ibid.*, Section 85.

See also *Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3157-110, p. 63, Ottawa: Employment and Immigration Canada.

<sup>3</sup>In order to practice as a dental hygienist in British Columbia, it is necessary to be registered by the College of Dental Surgeons and to hold a valid licence. Membership in the British Columbia Dental Hygienists' Association is not compulsory.



**Preparation and Updating:**

Notification of new registrants or change of address is received monthly by the Health Manpower Research Unit from the British Columbia Dental Hygienists' Association and the College of Dental Surgeons of British Columbia. These updates are entered, after careful editing and reconciliation of inconsistencies, into *HYGFILE*, a dynamic computer-based file.

The table includes licensed dental hygienists who were B.C. residents at the date of record.

*Licensed Dental Hygienists  
per 10,000 Population  
by Regional Hospital District  
September 1983*

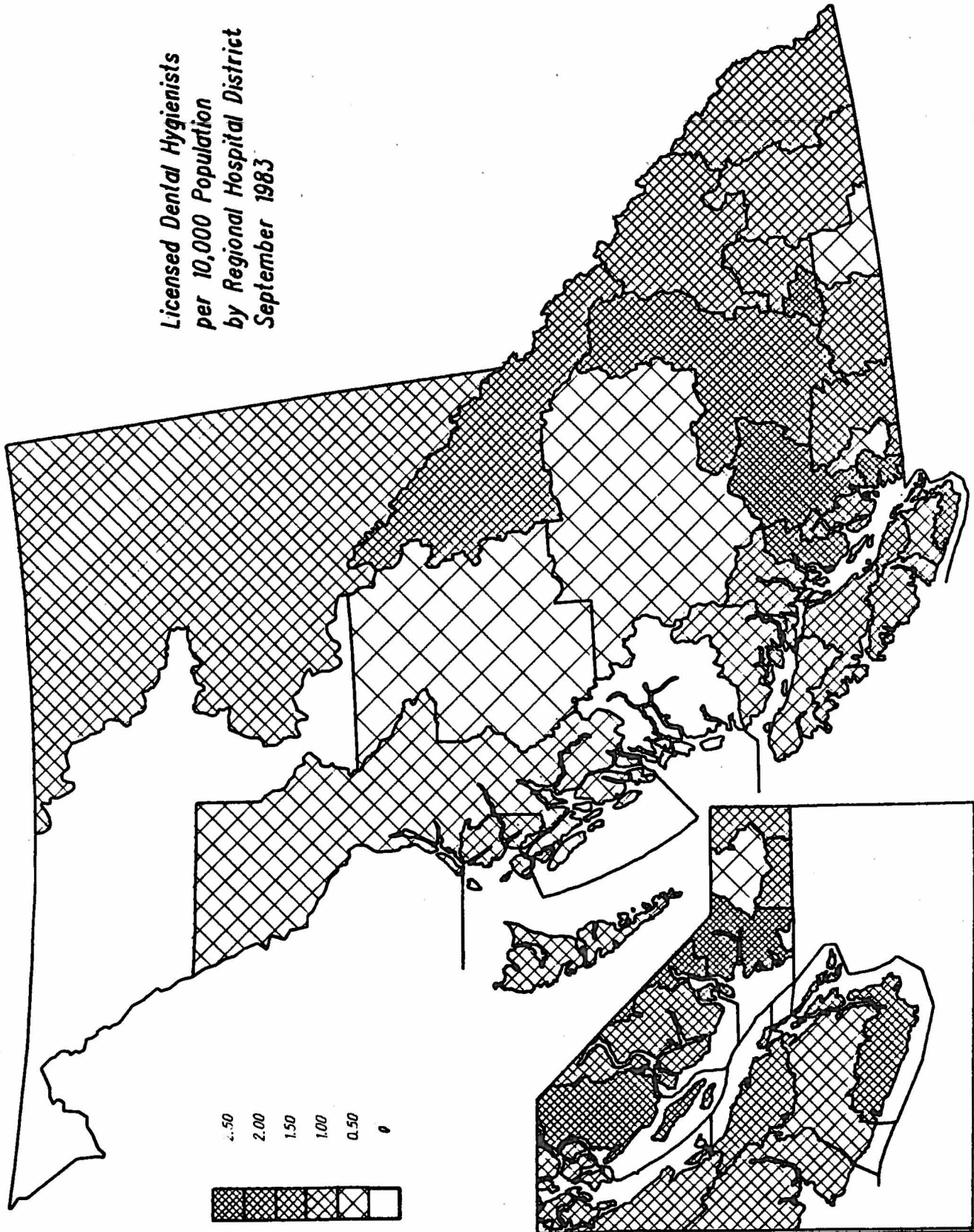


Table 1

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

## by Regional Hospital District

September 1981 and September 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>140</b>	<b>161</b>	<b>1.06</b>	<b>1.17</b>	<b>7.24</b>	<b>5.22</b>
1 Alberni-Clayoquot	3	3	0.92	0.91	*	*
2 Bulkley-Nechako	1	1	0.26	0.25	*	*
4 Cariboo	2	2	0.34	0.32	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	12	18	1.04	1.47	22.47	18.80
7 Central Kootenay	4	5	0.77	0.94	*	*
8 Central Okanagan	20	24	2.35	2.71	9.54	7.52
9 Columbia-Shuswap	3	5	0.75	1.20	*	*
10 Comox-Strathcona	8	7	1.17	0.97	*	*
11 Cowichan Valley	2	4	0.38	0.73	*	*
12 Dewdney-Alouette	1	2	0.16	0.31	*	*
13 East Kootenay	7	6	1.30	1.07	*	*
14 Fraser-Cheam	6	7	1.05	1.20	*	*
15 Fraser-Fort George	13	13	1.45	1.39	0.00	-2.05
17 Kitimat-Stikine	2	2	0.47	0.45	*	*
18 Kootenay Boundary	0	1	0.0	0.30	*	*
19 Mount Waddington	1	1	0.68	0.64	*	*
20 Nanaimo	10	11	1.30	1.37	4.88	2.60
21 North Okanagan	8	7	1.47	1.24	*	*
22 Okanagan-Similkameen	8	7	1.40	1.19	*	*
23 Peace River-Liard	4	4	0.72	0.68	*	*
24 Powell River	5	4	2.58	2.05	*	*
25 Skeena-Queen Charlotte	1	2	0.42	0.80	*	*
26 Squamish-Lillooet	3	5	1.58	2.55	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	2	2	1.29	1.27	*	*
29 Thompson-Nicola	14	18	1.37	1.71	13.39	11.59
<b>Metropolitan - Subtotal</b>	<b>308</b>	<b>352</b>	<b>2.17</b>	<b>2.44</b>	<b>6.90</b>	<b>6.00</b>
3 Capital	37	42	1.48	1.66	6.54	5.75
16 Greater Vancouver	271	310	2.32	2.60	6.95	6.03
<b>TOTAL</b>	<b>448</b>	<b>513</b>	<b>1.63</b>	<b>1.82</b>	<b>7.01</b>	<b>5.57</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 Manpower Research Unit  
 The University of British Columbia



## **DENTAL LABORATORY TECHNICIANS**



## DENTAL LABORATORY TECHNICIANS

**Definition:** A dental laboratory technician is licensed to perform the following services:

- " (a) to make, produce, reproduce, construct, furnish, supply, alter and repair a prosthetic denture, bridge, 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 to the extent authorized by a prescription for that person, or to the extent authorized by a prescription to engage in any of those activities; or
- (b) where the repairs or replacement can be effected without intra-oral procedures or the taking of impressions, to make structural repairs to a removable dental prosthesis, or to replace teeth in a denture without a prescription;

or both. <sup>1</sup>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** Dental Technicians' Board of British Columbia.<sup>2</sup>

**Preparation and Updating:**

The tables, derived from the *Nominal Roll* supplied by the Dental Technicians' Board of British Columbia, include dental laboratory technicians who reported a B.C. address at the date of record.

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<sup>1</sup>*Dental Technicians Act*, 1979, RS Chap. 91, sec. 5, subsec. (1).

<sup>2</sup>In order to practice as a dental laboratory technician in British Columbia, it is necessary to be registered by the Dental Technicians' Board and hold a valid licence.

**Definition of Terms:**

A licensed dental laboratory technician is registered and fully licensed by the Dental Technicians' Board.

An apprentice is registered by the Dental Technicians' Board and in training under the supervision of a licensed dental laboratory technician.

A dental technician on permit has not yet completed his/her registration examinations, but can practice under the supervision of a licensed dental laboratory technician. Included in this category are new arrivals to the province.

*Licensed Dental  
Laboratory Technicians  
per 10,000 Population  
by Regional Hospital District  
September 1983*

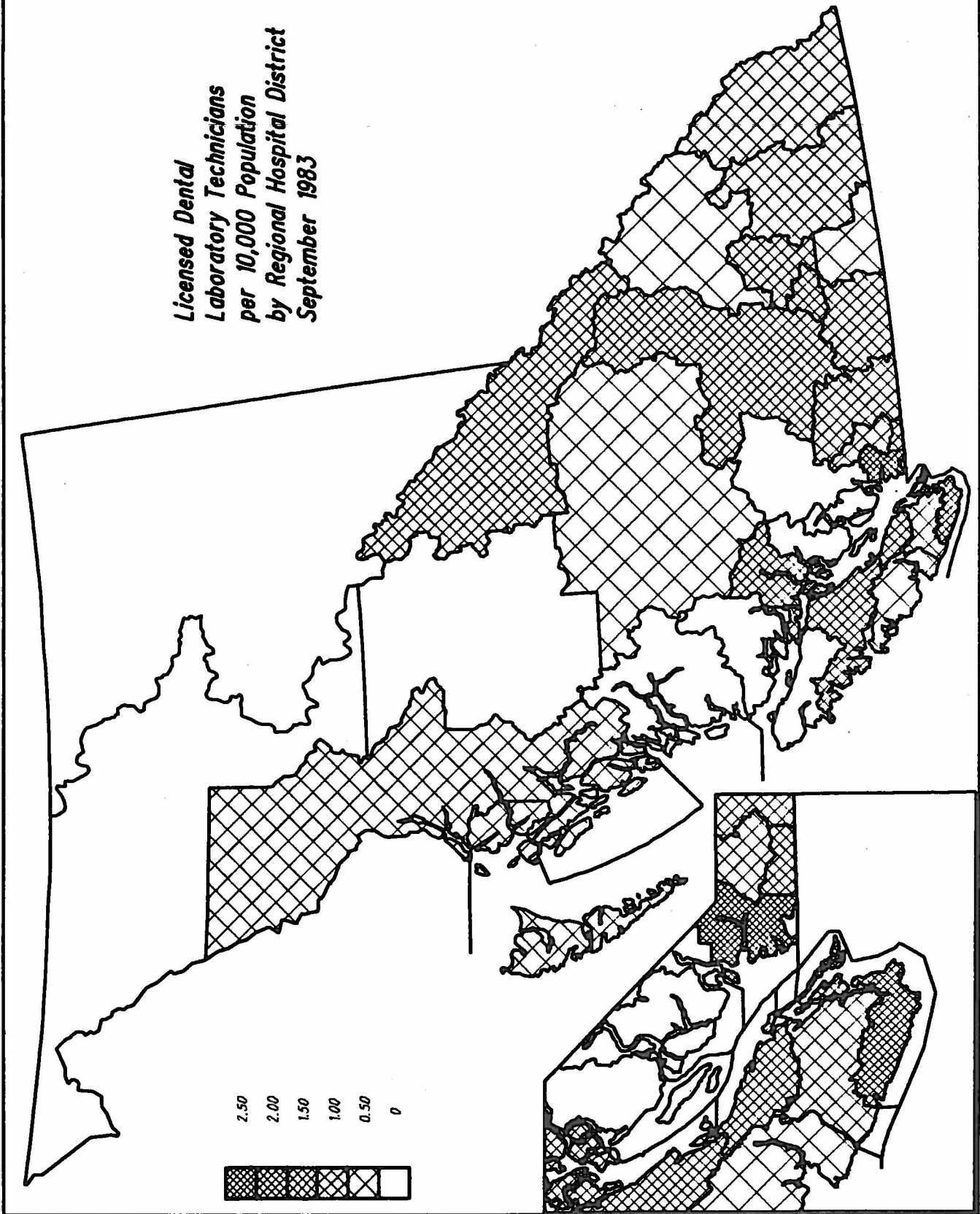


Table 1.

**Dental Laboratory Technicians<sup>1</sup> in British Columbia**  
**by Registration Status by Regional Hospital District**  
**September 1983**

Regional Hospital District	Number				Number per 10,000 Population			
	Licensed Technician	Apprentice	On Permit	Total	Licensed Technician	Apprentice	On Permit	Total
<b>Non-Metropolitan - Subtotal</b>	<b>71</b>	<b>16</b>	<b>8</b>	<b>95</b>	<b>0.52</b>	<b>0.12</b>	<b>0.06</b>	<b>0.69</b>
1 Alberni-Clayoquot	1	0	0	1	0.30	0.0	0.0	0.30
2 Bulkley-Nechako	0	0	0	0	0.0	0.0	0.0	0.0
4 Cariboo	2	0	0	2	0.32	0.0	0.0	0.32
5 Central Coast	0	0	0	0	0.0	0.0	0.0	0.0
6 Central Fraser Valley	10	3	0	13	0.82	0.25	0.0	1.06
7 Central Kootenay	3	0	0	3	0.57	0.0	0.0	0.57
8 Central Okanagan	7	1	2	10	0.79	0.11	0.23	1.13
9 Columbia-Shuswap	1	0	0	1	0.24	0.0	0.0	0.24
10 Comox-Strathcona	5	2	1	8	0.70	0.28	0.14	1.11
11 Cowichan Valley	2	1	0	3	0.37	0.18	0.0	0.55
12 Dewdney-Alouette	4	0	0	4	0.63	0.0	0.0	0.63
13 East Kootenay	2	1	0	3	0.36	0.18	0.0	0.54
14 Fraser-Cheam	4	1	0	5	0.69	0.17	0.0	0.86
15 Fraser-Fort George	6	2	0	8	0.64	0.21	0.0	0.86
17 Kitimat-Stikine	1	0	1	2	0.23	0.0	0.23	0.45
18 Kootenay Boundary	1	0	0	1	0.30	0.0	0.0	0.30
19 Mount Waddington	0	0	0	0	0.0	0.0	0.0	0.0
20 Nanaimo	6	1	2	9	0.74	0.12	0.25	1.12
21 North Okanagan	4	1	0	5	0.71	0.18	0.0	0.88
22 Okanagan-Similkameen	3	1	1	5	0.51	0.17	0.17	0.85
23 Peace River-Liard	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
25 Skeena-Queen Charlotte	1	0	0	1	0.40	0.0	0.0	0.40
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	0	0	0	0	0.0	0.0	0.0	0.0
29 Thompson-Nicola	8	2	1	11	0.76	0.19	0.09	1.04
<b>Metropolitan - Subtotal</b>	<b>255</b>	<b>55</b>	<b>25</b>	<b>335</b>	<b>1.77</b>	<b>0.38</b>	<b>0.17</b>	<b>2.32</b>
3 Capital	34	6	5	45	1.34	0.24	0.20	1.78
16 Greater Vancouver	221	49	20	290	1.86	0.41	0.17	2.44
<b>TOTAL</b>	<b>330<sup>2</sup></b>	<b>71</b>	<b>34<sup>2</sup></b>	<b>435<sup>2</sup></b>	<b>1.17<sup>2</sup></b>	<b>0.25</b>	<b>0.12<sup>2</sup></b>	<b>1.54<sup>2</sup></b>

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

<sup>2</sup> Four licenced technicians and one on permit with location unknown have been included.

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 2

Licensed Dental Laboratory Technicians<sup>1</sup> in British Columbia

by Regional Hospital District

September 1981 and September 1983

5-5

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>63</b>	<b>71</b>	<b>0.48</b>	<b>0.52</b>	<b>6.16</b>	<b>4.16</b>
1 Alberni-Clayoquot	1	1	0.31	0.30	*	*
2 Bulkley-Nechako	0	0	0.0	0.0	*	*
4 Cariboo	1	2	0.17	0.32	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	8	10	0.70	0.82	*	*
7 Central Kootenay	3	3	0.58	0.57	*	*
8 Central Okanagan	4	7	0.47	0.79	*	*
9 Columbia-Shuswap	0	1	0.0	0.24	*	*
10 Comox-Strathcona	5	5	0.73	0.70	*	*
11 Cowichan Valley	2	2	0.38	0.37	*	*
12 Dewdney-Alouette	2	4	0.32	0.63	*	*
13 East Kootenay	2	2	0.37	0.36	*	*
14 Fraser-Cheam	4	4	0.70	0.69	*	*
15 Fraser-Fort George	6	6	0.67	0.64	*	*
17 Kitimat-Stikine	2	1	0.47	0.23	*	*
18 Kootenay Boundary	2	1	0.60	0.30	*	*
19 Mount Waddington	0	0	0.0	0.0	*	*
20 Nanaimo	5	6	0.65	0.74	*	*
21 North Okanagan	5	4	0.92	0.71	*	*
22 Okanagan-Similkameen	3	3	0.52	0.51	*	*
23 Peace River-Liard	0	0	0.0	0.0	*	*
24 Powell River	0	0	0.0	0.0	*	*
25 Skeena-Queen Charlotte	1	1	0.42	0.40	*	*
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	7	8	0.69	0.76	*	*
<b>Metropolitan - Subtotal</b>	<b>262</b>	<b>255</b>	<b>1.85</b>	<b>1.77</b>	<b>-1.34</b>	<b>-2.18</b>
3 Capital	31	34	1.24	1.34	4.73	3.95
16 Greater Vancouver	231	221	1.97	1.86	-2.19	-3.03
<b>TOTAL</b>	<b>325</b>	<b>330<sup>4</sup></b>	<b>1.18</b>	<b>1.16<sup>4</sup></b>	<b>0.77<sup>4</sup></b>	<b>-0.59<sup>4</sup></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.<sup>4</sup> Four licenced technicians with location unknown have been included.

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

Prepared by:

Health Manpower Research Unit

The University of British Columbia

## **DENTAL MECHANICS**





## DENTAL MECHANICS

**Definition:** A dental mechanic is licensed to perform the following services:

- "(a) To make, repair, reline, replace, or furnish upper or lower full dentures, or both, and carry out the necessary nonsurgical intra oral procedures, including the taking of necessary impressions, without a prescription, or to engage in any of those activities, but only
  - (i) if he has received from the person for whom the service is to be performed a certificate in Form A of the Schedule, completed and signed by a dentist or qualified medical practitioner; and
  - (ii) within 7 days of the date of inspection of the oral cavity of the person by the dentist or qualified medical practitioner as shown on the certificate; or
- (b) To make structural repairs to a removable dental prosthesis, or to replace teeth in a denture without a certificate in Form A of the Schedule where the repairs or replacement can be effected without intra oral procedures or the taking of impressions."<sup>1</sup>

**Date of Record:** September 1981 and October 1983.

**Source of Data:** Dental Technicians' Board of British Columbia.<sup>2</sup>

**Preparation and Updating:**

The table, derived from the *Nominal Roll* supplied by the Dental Technicians' Board of British Columbia, includes licensed dental mechanics who reported a B.C. address at the date of record.

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<sup>1</sup>*Dental Technicians Act*, 1979, RS Chap. 91, sec. 5, subsec. (2).

<sup>2</sup>In order to practice as a dental mechanic in British Columbia, it is necessary to be registered by the Dental Technicians' Board and to hold a valid licence.

*Licensed Dental Mechanics  
per 10,000 Population  
by Regional Hospital District  
October 1983*

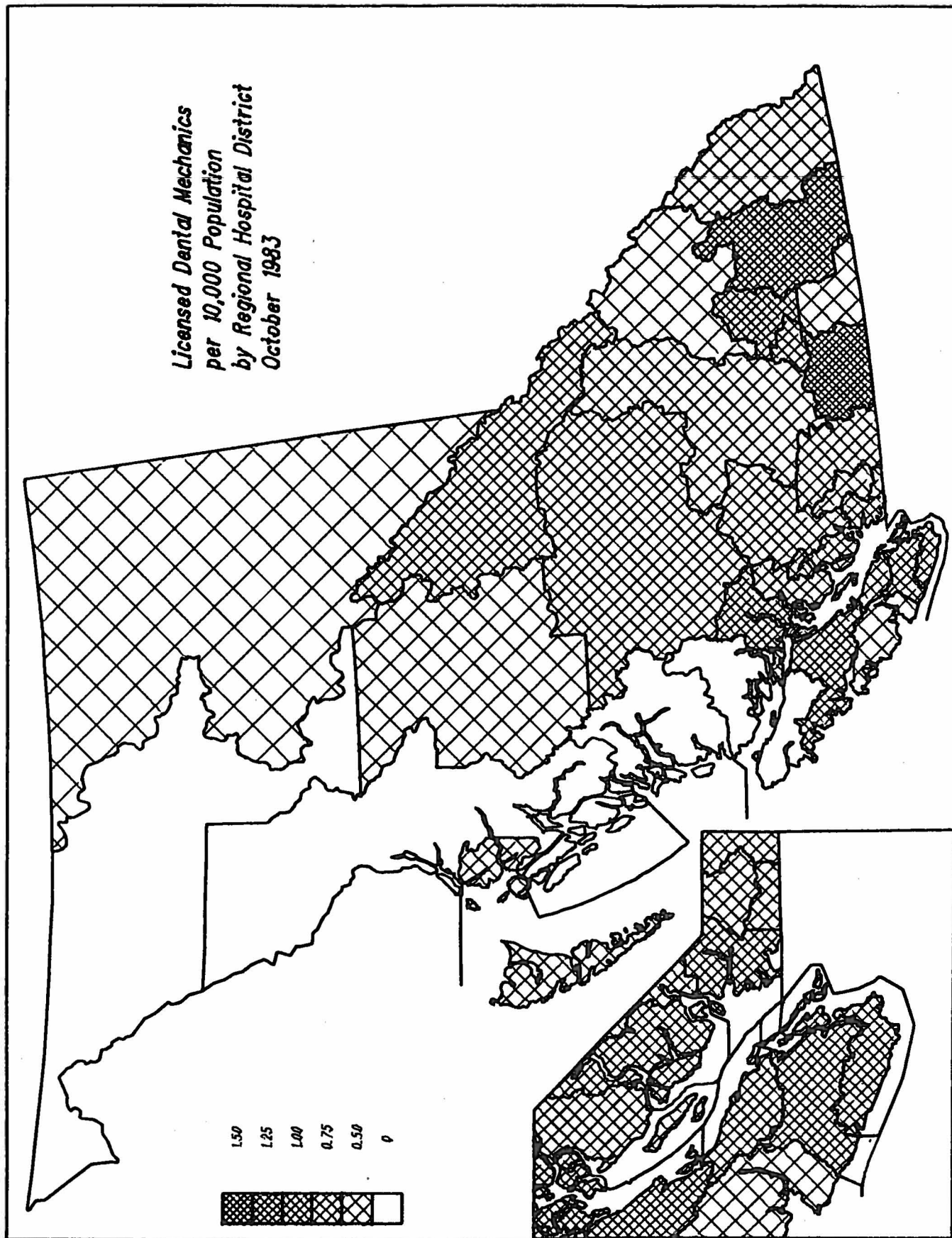


Table 1

Licensed Dental Mechanics<sup>1</sup> in British Columbia

by Regional Hospital District

September 1981 and October 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>74</b>	<b>78</b>	<b>0.56</b>	<b>0.55</b>	<b>1.29</b>	<b>-0.54</b>
1 Alberni-Clayoquot	1	1	0.31	0.30	*	*
2 Bulkley-Nechako	1	1	0.26	0.25	*	*
4 Cariboo	3	3	0.51	0.49	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	7	6	0.61	0.49	*	*
7 Central Kootenay	6	6	1.15	1.13	*	*
8 Central Okanagan	6	6	0.70	0.68	*	*
9 Columbia-Shuswap	1	1	0.25	0.24	*	*
10 Comox-Strathcona	6	6	0.87	0.84	*	*
11 Cowichan Valley	4	4	0.76	0.73	*	*
12 Dewdney-Alouette	3	3	0.48	0.47	*	*
13 East Kootenay	1	2	0.19	0.36	*	*
14 Fraser-Cheam	3	3	0.53	0.51	*	*
15 Fraser-Fort George	4	5	0.45	0.54	*	*
17 Kitimat-Stikine	0	0	0.0	0.0	*	*
18 Kootenay Boundary	2	1	0.60	0.30	*	*
19 Mount Waddington	0	0	0.0	0.0	*	*
20 Nanaimo	4	5	0.52	0.62	*	*
21 North Okanagan	5	5	0.92	0.88	*	*
22 Okanagan-Similkameen	6	9	1.05	1.53	*	*
23 Peace River-Liard	2	1	0.36	0.17	*	*
24 Powell River	1	1	0.52	0.51	*	*
25 Skeena-Queen Charlotte	1	1	0.42	0.40	*	*
26 Squamish-Lillooet	1	1	0.53	0.51	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	1	1	0.65	0.64	*	*
29 Thompson-Nicola	5	4	0.49	0.38	*	*
<b>Metropolitan - Subtotal</b>	<b>99</b>	<b>101</b>	<b>0.70</b>	<b>0.70</b>	<b>0.96</b>	<b>0.15</b>
3 Capital	18	18	0.72	0.71	0.00	-0.71
16 Greater Vancouver	81	83	0.69	0.70	1.18	0.34
<b>TOTAL</b>	<b>173</b>	<b>177</b>	<b>0.63</b>	<b>0.63</b>	<b>1.10</b>	<b>-0.21</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> 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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Health Manpower Research Unit  
The University of British Columbia





## 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>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** The College of Dental Surgeons of British Columbia.<sup>2</sup>

**Preparation and Updating:**

Notification of new registrants or change in location or type of registration is received by the Health Manpower Research Unit from the College of Dental Surgeons of British Columbia on a monthly basis. These updates are entered, after careful editing and reconciliation of inconsistencies, into *DENTFILE*, a dynamic computer-based file.

The tables include licensed dentists who reported a B.C. 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.

<sup>2</sup>In order to practise as a dentist in British Columbia, it is necessary to be registered by the College of Dental Surgeons and to hold an unexpired annual certificate(licence) under the Dentist's Act.

## Definition of Terms:

### 1. Specialty<sup>3</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) Pediatric Dentistry
- (f) Periodontics
- (g) Prosthodontics
- (h) Oral Pathology
- (i) Oral Radiology<sup>4</sup>

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

### 2. Analysis of Change

Table 4 illustrates the sources of change which affected the stock of dentists from 1981 to 1983.

*New registrants* include all dentists who were licensed as of September 1983 and registered with the College *for the first time* subsequent to September 1981. New registrants are recorded according to their place of graduation; i.e., from U.B.C., Other Canadian Schools (O.Can), the United States (U.S.A.), or Other.

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<sup>3</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.

<sup>4</sup>Oral Radiology was approved as a dental specialty in B.C. in 1978 and reported for the first time in B.C. in 1983.



*Re-activations* (Re-Act) represent those dentists who were not licensed in September 1981 and were licensed in September 1983, but whose date of initial registration fell before October 1981.

*Attrition* (Attr'n) describes those dentists who were included in the 1981 dentist stock, but who, because of death, retirement or non-renewal of licensure, were not included in the 1983 stock.

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

*Licensed Dentists  
per 10,000 Population  
by Regional Hospital District  
September 1983*

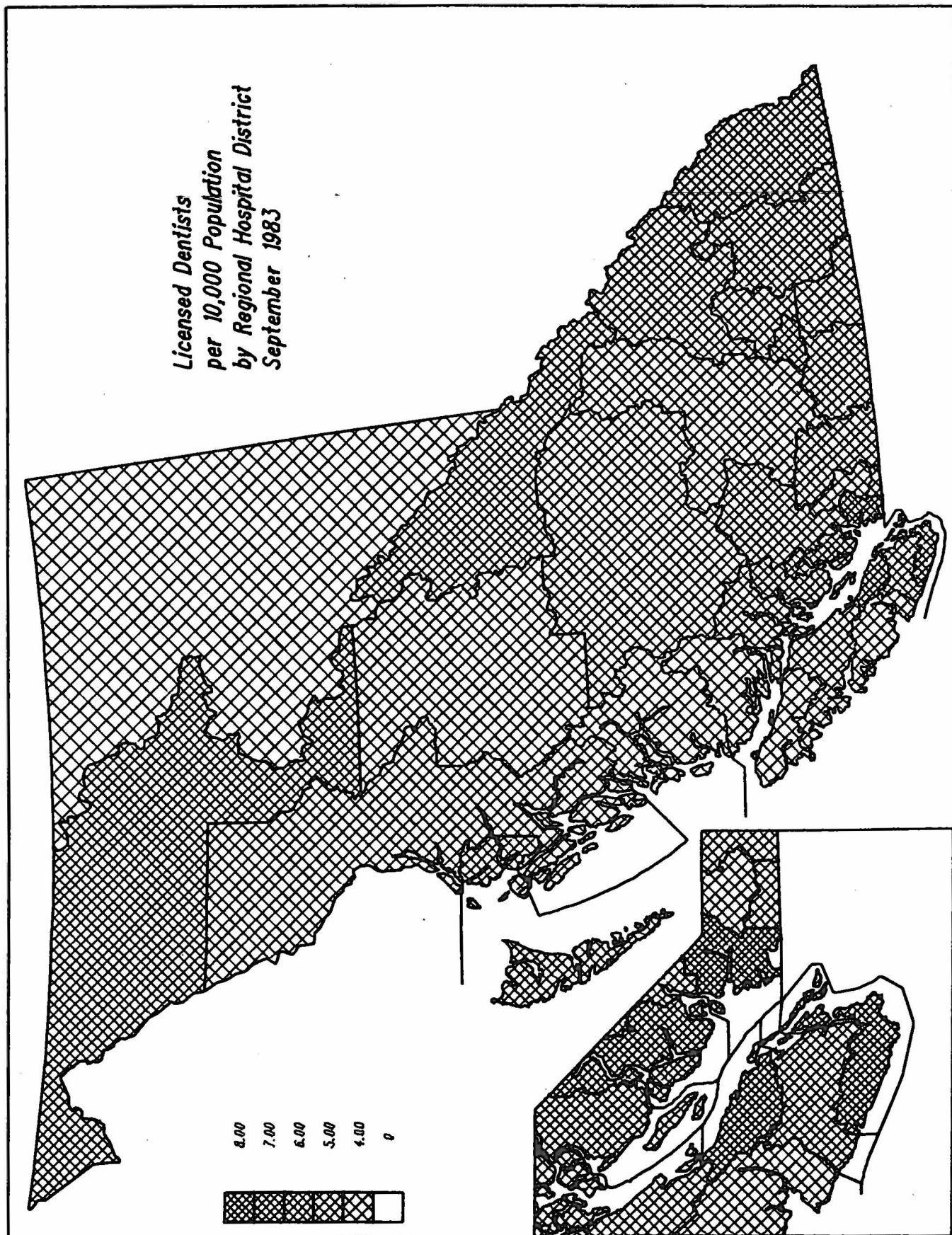


Table 1

**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Specialty by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Non-Specialist		Endodontics		Oral and Maxillofacial Surgery		Orthodontics		Pediatric Dentistry	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>551</b>	<b>587</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>16</b>	<b>23</b>	<b>0</b>	<b>1</b>
1 Alberni-Clayoquot	13	12	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	10	13	0	0	0	0	0	0	0	0
4 Cariboo	20	23	0	0	0	0	1	1	0	0
5 Central Coast	2	1	0	0	0	0	0	0	0	0
6 Central Fraser Valley	41	52	0	0	0	0	2	4	0	0
7 Central Kootenay	25	25	0	0	0	0	0	0	0	0
8 Central Okanagan	38	41	0	1	1	2	2	4	0	0
9 Columbia-Shuswap	18	18	0	0	0	0	1	1	0	0
10 Comox-Strathcona	31	31	0	0	0	0	1	0	0	0
11 Cowichan Valley	24	25	0	0	0	0	1	2	0	0
12 Dewdney-Alouette	23	24	0	0	0	0	0	0	0	0
13 East Kootenay	25	27	0	0	0	0	1	1	0	0
14 Fraser-Cheam	20	26	0	0	0	0	1	1	0	0
15 Fraser-Fort George	41	41	0	0	0	0	1	2	0	0
17 Kitimat-Stikine	14	14	0	0	0	0	1	2	0	0
18 Kootenay Boundary	12	14	0	0	0	0	0	0	0	0
19 Mount Waddington	5	5	0	0	0	0	0	0	0	0
20 Nanaimo	45	51	0	0	1	2	2	2	0	1
21 North Okanagan	23	23	0	0	0	0	1	1	0	0
22 Okanagan-Similkameen	29	27	0	0	0	0	0	0	0	0
23 Peace River-Liard	14	14	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	12	12	0	0	0	0	0	0	0	0
26 Squamish-Lillooet	8	9	0	0	0	0	0	0	0	0
27 Stikine	2	1	0	0	0	0	0	0	0	0
28 Sunshine Coast	9	10	0	0	0	0	0	0	0	0
29 Thompson-Nicola	37	38	0	0	0	0	1	2	0	0
<b>Metropolitan - Subtotal</b>	<b>963</b>	<b>987</b>	<b>14</b>	<b>16</b>	<b>24</b>	<b>23</b>	<b>46</b>	<b>42</b>	<b>17</b>	<b>16</b>
3 Capital	153	156	1	1	4	4	9	8	1	1
16 Greater Vancouver	810	831	13	15	20	19	37	34	16	15
<b>TOTAL</b>	<b>1,514</b>	<b>1,574</b>	<b>14</b>	<b>17</b>	<b>26</b>	<b>27</b>	<b>62</b>	<b>65</b>	<b>17</b>	<b>17</b>

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

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... continued

**Table 1**  
(Continued)

**Licensed Dentists<sup>1</sup> in British Columbia**  
**by Specialty by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Periodontics		Prosthodontics		Oral Pathology		Oral Radiology <sup>2</sup>	Total	
	1981	1983	1981	1983	1981	1983	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>572</b>	<b>619</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	13	12
2 Bulkley-Nechako	0	0	0	0	0	0	0	10	13
4 Caribco	0	0	0	0	0	0	0	21	24
5 Central Coast	0	0	0	0	0	0	0	2	1
6 Central Fraser Valley	0	0	0	0	0	0	0	43	56
7 Central Kootenay	0	0	0	0	0	0	0	25	25
8 Central Okanagan	2	2	0	0	0	0	0	43	50
9 Columbia-Shuswap	0	0	0	0	0	0	0	19	19
10 Comox-Strathcona	0	0	0	0	0	0	0	32	31
11 Cowichan Valley	0	0	0	0	0	0	0	25	27
12 Dewdney-Alouette	0	0	0	0	0	0	0	23	24
13 East Kootenay	0	0	0	0	0	0	0	26	28
14 Fraser-Cheam	0	0	0	0	0	0	0	21	27
15 Fraser-Fort George	0	0	0	0	0	0	0	42	43
17 Kitimat-Stikine	0	0	0	0	0	0	0	15	16
18 Kootenay Boundary	0	0	0	0	0	0	0	12	14
19 Mount Waddington	0	0	0	0	0	0	0	5	5
20 Nanaimo	0	0	0	0	0	0	0	48	56
21 North Okanagan	0	0	0	0	0	0	0	24	24
22 Okanagan-Similkameen	0	0	0	0	0	0	0	29	27
23 Peace River-Liard	0	0	1	1	0	0	0	15	15
24 Powell River	0	0	0	0	0	0	0	10	10
25 Skeena-Queen Charlotte	0	0	0	0	0	0	0	12	12
26 Squamish-Lillooet	0	0	0	0	0	0	0	8	9
27 Stikine	0	0	0	0	0	0	0	2	1
28 Sunshine Coast	0	0	0	0	0	0	0	9	10
29 Thompson-Nicola	0	0	0	0	0	0	0	38	40
<b>Metropolitan - Subtotal</b>	<b>16</b>	<b>17</b>	<b>17</b>	<b>23</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1,098</b>	<b>1,127</b>
3 Capital	2	3	1	2	0	0	0	171	175
16 Greater Vancouver	14	14	16	21	1	2	1	927	952
<b>TOTAL</b>	<b>18</b>	<b>19</b>	<b>18</b>	<b>24</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1,670</b>	<b>1,746</b>

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

<sup>2</sup> This specialty appears in B.C. for the first time in 1983. See attached text.

Prepared by:  
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The University of British Columbia

Table 2

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

per 10,000 Population, Specialists and Non-Specialists, by Regional Hospital District

September 1981 and September 1983

Regional Hospital District	Non-Specialist		Specialist		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>4.16</b>	<b>4.26</b>	<b>0.16</b>	<b>0.23</b>	<b>4.32</b>	<b>4.50</b>
1 Alberni-Clayoquot	3.99	3.63	0.0	0.0	3.99	3.63
2 Bulkley-Nechako	2.61	3.24	0.0	0.0	2.61	3.24
4 Cariboo	3.38	3.72	0.17	0.16	3.54	3.88
5 Central Coast	6.56	3.18	0.0	0.0	6.56	3.18
6 Central Fraser Valley	3.56	4.25	0.17	0.33	3.74	4.58
7 Central Kootenay	4.80	4.72	0.0	0.0	4.80	4.72
8 Central Okanagan	4.46	4.63	0.59	1.02	5.04	5.65
9 Columbia-Shuswap	4.49	4.31	0.25	0.24	4.73	4.55
10 Comox-Strathcona	4.52	4.32	0.15	0.0	4.66	4.32
11 Cowichan Valley	4.55	4.59	0.19	0.37	4.74	4.96
12 Dewdney-Alouette	3.71	3.75	0.0	0.0	3.71	3.75
13 East Kootenay	4.65	4.83	0.19	0.18	4.84	5.01
14 Fraser-Cheam	3.51	4.46	0.18	0.17	3.69	4.63
15 Fraser-Fort George	4.58	4.40	0.11	0.21	4.70	4.61
17 Kitimat-Stikine	3.30	3.17	0.24	0.45	3.54	3.62
18 Kootenay Boundary	3.61	4.19	0.0	0.0	3.61	4.19
19 Mount Waddington	3.41	3.22	0.0	0.0	3.41	3.22
20 Nanaimo	5.84	6.33	0.39	0.62	6.23	6.95
21 North Okanagan	4.23	4.07	0.18	0.18	4.42	4.25
22 Okanagan-Similkameen	5.07	4.59	0.0	0.0	5.07	4.59
23 Peace River-Liard	2.52	2.37	0.18	0.17	2.70	2.53
24 Powell River	5.16	5.12	0.0	0.0	5.16	5.12
25 Skeena-Queen Charlotte	5.00	4.82	0.0	0.0	5.00	4.82
26 Squamish-Lillooet	4.23	4.60	0.0	0.0	4.23	4.60
27 Stikine	10.24	4.88	0.0	0.0	10.24	4.88
28 Sunshine Coast	5.81	6.37	0.0	0.0	5.81	6.37
29 Thompson-Nicola	3.63	3.61	0.10	0.19	3.73	3.80
<b>Metropolitan - Subtotal</b>	<b>6.79</b>	<b>6.84</b>	<b>0.95</b>	<b>0.97</b>	<b>7.74</b>	<b>7.81</b>
3 Capital	6.13	6.16	0.72	0.75	6.85	6.91
16 Greater Vancouver	6.92	6.98	1.00	1.02	7.92	8.00
<b>TOTAL</b>	<b>5.52</b>	<b>5.58</b>	<b>0.57</b>	<b>0.61</b>	<b>6.08</b>	<b>6.19</b>

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

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Table 3

Average Annual Rate of Change; Licensed Dentists<sup>1</sup>

in British Columbia, Specialists and Non-Specialists, by Regional Hospital District

September 1981 to September 1983

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>3.22</b>	<b>1.28</b>	<b>23.44</b>	<b>21.12</b>	<b>4.03</b>	<b>2.07</b>
1 Alberni-Clayoquot	-3.92	-4.61	*	*	-3.92	-4.61
2 Bulkley-Nechako	14.02	11.49	*	*	14.02	11.49
4 Cariboo	7.24	5.00	*	*	6.90	4.67
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	12.62	9.24	*	*	14.12	10.70
7 Central Kootenay	0.00	-0.92	*	*	0.00	-0.92
8 Central Okanagan	3.87	1.95	*	*	7.83	5.84
9 Columbia-Shuswap	0.00	-1.97	*	*	0.00	-1.97
10 Comox-Strathcona	0.00	-2.25	*	*	-1.57	-3.79
11 Cowichan Valley	2.06	0.38	*	*	3.92	2.21
12 Dewdney-Alouette	2.15	0.60	*	*	2.15	0.60
13 East Kootenay	3.92	1.92	*	*	3.77	1.77
14 Fraser-Cheam	14.02	12.72	*	*	13.39	12.10
15 Fraser-Fort George	0.00	-2.05	*	*	1.18	-0.89
17 Kitimat-Stikine	0.00	-2.08	*	*	3.28	1.14
18 Kootenay Boundary	8.01	7.69	*	*	8.01	7.69
19 Mount Waddington	*	*	*	*	*	*
20 Nanaimo	6.46	4.14	*	*	8.01	5.66
21 North Okanagan	0.00	-1.94	*	*	0.00	-1.94
22 Okanagan-Similkameen	-3.51	-4.85	*	*	-3.51	-4.85
23 Peace River-Liard	0.00	-3.19	*	*	0.00	-3.19
24 Powell River	0.00	-0.40	*	*	0.00	-0.40
25 Skeena-Queen Charlotte	0.00	-1.80	*	*	0.00	-1.80
26 Squamish-Lillooet	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*
29 Thompson-Nicola	1.34	-0.26	*	*	2.60	0.97
<b>Metropolitan - Subtotal</b>	<b>1.24</b>	<b>0.38</b>	<b>1.84</b>	<b>0.98</b>	<b>1.31</b>	<b>0.46</b>
3 Capital	0.98	0.22	2.74	1.98	1.16	0.41
16 Greater Vancouver	1.29	0.41	1.70	0.82	1.34	0.46
<b>TOTAL</b>	<b>1.98</b>	<b>0.59</b>	<b>5.00</b>	<b>3.59</b>	<b>2.25</b>	<b>0.87</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.

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 4

**Analysis of Change in the Number of Licensed Dentists<sup>1</sup>**  
**in British Columbia by Place of Graduation by Regional Hospital District**  
**September 1981 to September 1983**

Regional Hospital District	1981 <sup>2</sup>	New Registrants <sup>3</sup> by Place of Graduation					Re-Act <sup>4</sup>	Attr'n <sup>5</sup>	Migr'n <sup>6</sup>	1983 <sup>7</sup>
		B.C.	O.Can. <sup>8</sup>	U.S.A.	Other	Total				
<b>Non-Metropolitan - Subtotal</b>	<b>572</b>	<b>25</b>	<b>32</b>	<b>1</b>	<b>2</b>	<b>60</b>	<b>11</b>	<b>27</b>	<b>3</b>	<b>819</b>
1 Alberni-Clayoquot	13	0	0	0	0	0	0	0	-1	12
2 Bulkley-Nechako	10	2	0	0	0	2	0	1	2	13
4 Cariboo	21	2	3	0	0	5	0	1	-1	24
5 Central Coast	2	0	0	0	0	0	0	0	-1	1
6 Central Fraser Valley	43	5	1	0	0	6	3	1	5	56
7 Central Kootenay	25	0	1	0	0	1	1	2	0	25
8 Central Okanagan	43	1	3	0	1	5	2	2	2	50
9 Columbia-Shuswap	19	0	2	0	0	2	0	2	0	19
10 Comox-Strathcona	32	0	1	0	0	1	0	1	-1	31
11 Cowichan Valley	25	0	1	0	0	1	1	0	0	27
12 Dewdney-Alouette	23	0	1	0	0	1	0	0	0	24
13 East Kootenay	26	0	4	0	0	4	0	3	1	28
14 Fraser-Cheam	21	2	2	0	0	4	0	0	2	27
15 Fraser-Fort George	42	1	4	0	0	5	1	2	-3	43
17 Kitimat-Stikine	15	2	1	1	0	4	0	1	-2	16
18 Kootenay Boundary	12	1	0	0	0	1	0	0	1	14
19 Mount Waddington	5	0	0	0	0	0	0	0	0	5
20 Nanaimo	48	5	4	0	0	9	2	3	0	56
21 North Okanagan	24	0	0	0	0	0	0	0	0	24
22 Okanagan-Similkameen	29	0	0	0	0	0	0	2	0	27
23 Peace River-Liard	15	1	2	0	0	3	0	2	-1	15
24 Powell River	10	1	0	0	1	2	0	2	0	10
25 Skeena-Queen Charlotte	12	0	1	0	0	1	0	0	-1	12
26 Squamish-Lillooet	8	1	0	0	0	1	0	1	1	9
27 Stikine	2	0	0	0	0	0	1	1	-1	1
28 Sunshine Coast	9	0	0	0	0	0	0	0	1	10
29 Thompson-Nicola	38	1	1	0	0	2	0	0	0	40
<b>Metropolitan - Subtotal</b>	<b>1,098</b>	<b>41</b>	<b>27</b>	<b>8</b>	<b>2</b>	<b>76</b>	<b>12</b>	<b>56</b>	<b>-3</b>	<b>1,127</b>
3 Capital	171	4	7	0	0	11	5	17	5	175
16 Greater Vancouver	927	37	20	6	2	65	7	39	-8	952
<b>TOTAL</b>	<b>1,670</b>	<b>66</b>	<b>59</b>	<b>7</b>	<b>4</b>	<b>136</b>	<b>23</b>	<b>83</b>	<b>0</b>	<b>1,746</b>

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

<sup>2</sup> Dentists who were licensed in September 1983 and registered for the first time after September 1981.

<sup>3</sup> Number of dentists as of September 1981.

<sup>4</sup> Dentists who were licensed in September 1983 and not in September 1981 but registered for the first time before October 1981.

<sup>5</sup> Dentists who were active in September 1981 but not in September 1983.

<sup>6</sup> Net effect of intraprovincial migration.

<sup>7</sup> Number of dentists as of September 1983.

<sup>8</sup> Other Canada.

Prepared by:

Health Manpower Research 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/Gynecology, Abdominal, Adult Echocardiography, Pediatric 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>

**Date of Record:** January 1981 and January 1983.

**Source of Data:** Health Manpower Research Unit survey.

**Preparation and Updating:**

The table includes diagnostic medical sonographers<sup>2</sup> identified by hospitals as being employed in B.C. at the date of record.

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

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the B.C. Ultrasonographers' Society is voluntary.

*Diagnostic Medical Sonographers  
per 10,000 Population  
by Regional Hospital District  
January 1983*

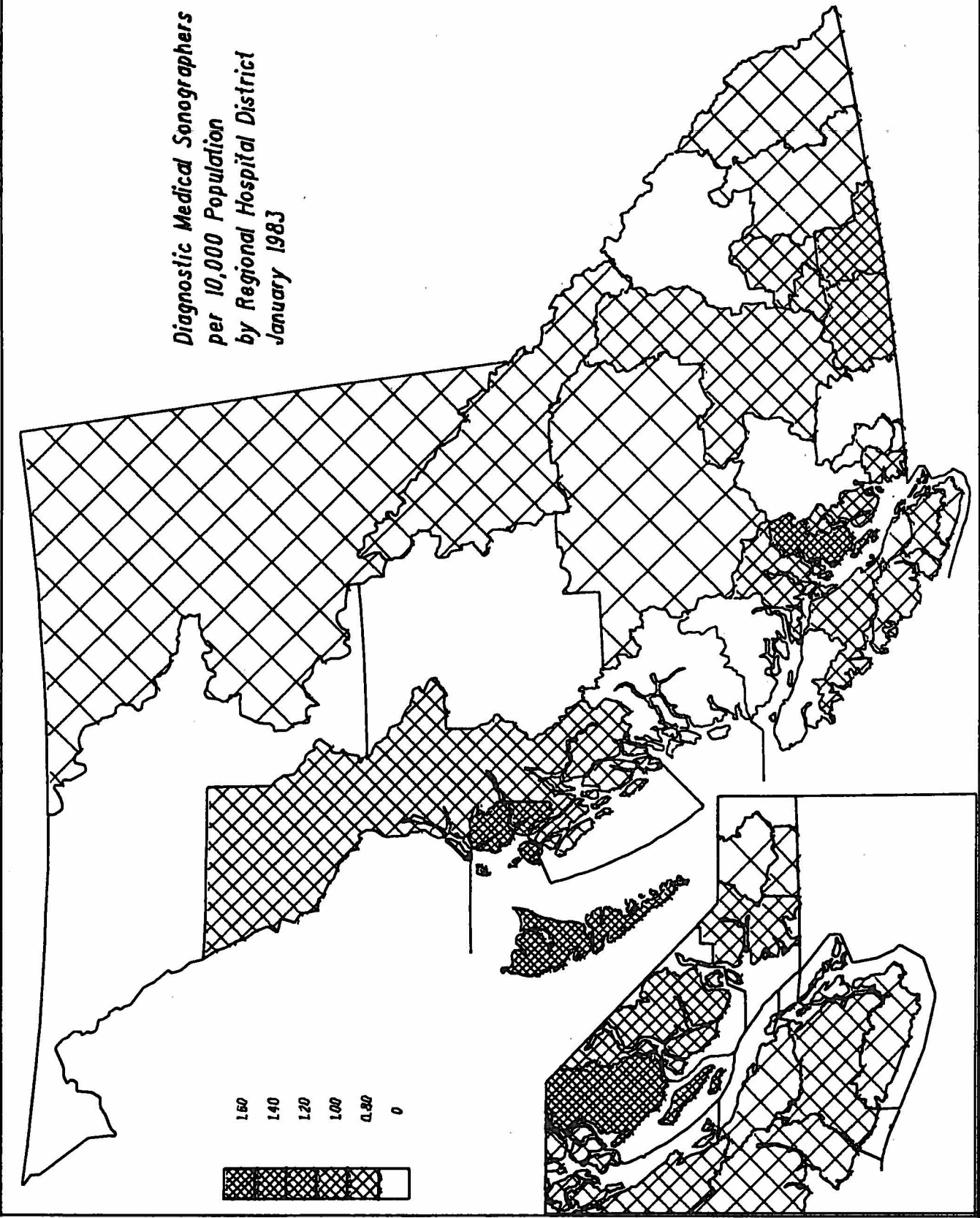


Table 1

**Diagnostic Medical Sonographers<sup>1</sup> in British Columbia**  
**by Employment Status by Regional Hospital District**  
**January 1981 and January 1983**

Regional Hospital District	Full-time		Part-time		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>14</b>	<b>22</b>	<b>16</b>	<b>19</b>	<b>30</b>	<b>41</b>
1 Alberni-Clayoquot	0	0	1	1	1	1
2 Bulkley-Nechako	0	0	0	0	0	0
4 Cariboo	0	0	0	1	0	1
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	1	2	1	1	2	3
7 Central Kootenay	0	1	0	0	0	1
8 Central Okanagan	3	2	1	1	4	3
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	2	2	2	1	4	3
11 Cowichan Valley	0	1	0	1	0	2
12 Dewdney-Alouette	0	1	0	0	0	1
13 East Kootenay	0	1	0	0	0	1
14 Fraser-Cheam	0	0	1	0	1	0
15 Fraser-Fort George	1	2	3	0	4	2
17 Kitimat-Stikine	0	0	1	2	1	2
18 Kootenay Boundary	1	2	1	0	2	2
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	1	1	0	1	1	2
21 North Dkanagan	1	1	1	1	2	2
22 Okanagan-Similkameen	0	2	0	1	0	3
23 Peace River-Liard	0	0	2	1	2	1
24 Powell River	1	1	2	2	3	3
25 Skeena-Queen Charlotte	0	0	0	4	0	4
26 Squamish-Lillooet	0	0	0	0	0	0
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	1	0	1
29 Thompson-Nicola	3	3	0	0	3	3
<b>Metropolitan - Subtotal</b>	<b>40</b>	<b>55</b>	<b>9</b>	<b>7</b>	<b>49</b>	<b>62</b>
3 Capital	4	5	0	1	4	6
16 Greater Vancouver	36	50	9	6	45	56
<b>TOTAL</b>	<b>54</b>	<b>77</b>	<b>25</b>	<b>26</b>	<b>79</b>	<b>103</b>

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

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 Health Manpower Research Unit  
 The University of British Columbia

Table 2

**Diagnostic Medical Sonographers<sup>1</sup> in British Columbia**  
**per 10,000 Population by Employment Status by Regional Hospital District**  
**January 1981 and January 1983**

Regional Hospital District	Full-time		Part-time		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>0.11</b>	<b>0.16</b>	<b>0.12</b>	<b>0.14</b>	<b>0.23</b>	<b>0.30</b>
1 Alberni-Clayoquot	0.0	0.0	0.31	0.30	0.31	0.30
2 Bulkley-Nechako	0.0	0.0	0.0	0.0	0.0	0.0
4 Cariboo	0.0	0.0	0.0	0.16	0.0	0.16
5 Central Coast	0.0	0.0	0.0	0.0	0.0	0.0
6 Central Fraser Valley	0.09	0.16	0.09	0.08	0.17	0.25
7 Central Kootenay	0.0	0.19	0.0	0.0	0.0	0.19
8 Central Okanagan	0.35	0.23	0.12	0.11	0.47	0.34
9 Columbia-Shuswap	0.0	0.0	0.0	0.0	0.0	0.0
10 Comox-Strathcona	0.29	0.28	0.29	0.14	0.58	0.42
11 Cowichan Valley	0.0	0.18	0.0	0.18	0.0	0.37
12 Dewdney-Alouette	0.0	0.16	0.0	0.0	0.0	0.16
13 East Kootenay	0.0	0.18	0.0	0.0	0.0	0.18
14 Fraser-Cheam	0.0	0.0	0.18	0.0	0.18	0.0
15 Fraser-Fort George	0.11	0.21	0.34	0.0	0.45	0.21
17 Kitimat-Stikine	0.0	0.0	0.24	0.45	0.24	0.45
18 Kootenay Boundary	0.30	0.60	0.30	0.0	0.60	0.60
19 Mount Waddington	0.0	0.0	0.0	0.0	0.0	0.0
20 Nanaimo	0.13	0.12	0.0	0.12	0.13	0.25
21 North Okanagan	0.18	0.18	0.18	0.18	0.37	0.35
22 Okanagan-Similkameen	0.0	0.34	0.0	0.17	0.0	0.51
23 Peace River-Liard	0.0	0.0	0.36	0.17	0.36	0.17
24 Powell River	0.52	0.51	1.03	1.02	1.55	1.54
25 Skeena-Queen Charlotte	0.0	0.0	0.0	1.61	0.0	1.61
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	0.0	0.0	0.0	0.64	0.0	0.64
29 Thompson-Nicola	0.29	0.28	0.0	0.0	0.29	0.28
<b>Metropolitan - Subtotal</b>	<b>0.28</b>	<b>0.38</b>	<b>0.06</b>	<b>0.05</b>	<b>0.35</b>	<b>0.43</b>
3 Capital	0.16	0.20	0.0	0.04	0.16	0.24
16 Greater Vancouver	0.31	0.42	0.08	0.05	0.38	0.47
<b>TOTAL</b>	<b>0.20</b>	<b>0.27</b>	<b>0.09</b>	<b>0.09</b>	<b>0.29</b>	<b>0.37</b>

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

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## **DIETITIANS AND NUTRITIONISTS**



## DIETITIANS AND NUTRITIONISTS

Definition: A dietitian:

"Plans and supervises food service programs in governmental, institutional, and commercial establishments to provide nutritionally adequate quality food:

Plans diets and menus, and evaluates clients' acceptance. Plans and submits budget, and manages and controls operating costs. Establishes and maintains standards of food production and service, sanitation, safety and security. Supervises workers, and directs efficient use of personnel and equipment. Institutes measures to improve efficiency and quality of food service system. Plans, conducts, and evaluates orientation and in-service training programs. Determines food, equipment and supply requirements. Administers established personnel policies. Plans layout designs and determines equipment requirements for new or renovated food services facilities. Prepares material on nutritional value of foods, methods of preparation and recipes, if required."<sup>1</sup>

A nutritionist:

"Provides consulting services to community, and organizes, plans and conducts programs concerning nutrition to assist in promotion of health and prevention of disease:

Assesses nutritional needs and available resources of community. Develops and implements community programs concerning nutrition. Advises health and other agencies on nutritional and food service standards of their food programs. Counsels individuals and families in nutritional principles, diet, food selection, and economical buying practices. Interprets and evaluates current research relating to nutrition and food service systems management to public and to staff. Conducts or participates in in-service education. Plans, conducts and evaluates nutrition education programs for public. Prepares technical publications, and publications for the public concerning food and nutrition. Plans, conducts and evaluates dietary studies, and participates in studies of diseases with nutrition component. Plans or participates in funding programs, and recommends budget. Manages and controls financial resources."<sup>2</sup>

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3152-122, p. 60, Ottawa: Employment and Immigration Canada.

<sup>2</sup>*Ibid.*, Major Group 31, No. 3152-118, p. 60.

**Date of Record:** September 1983.

**Source of Data:** The British Columbia Dietitians' and Nutritionists' Association (BCDNA) and the Canadian Dietetic Association (CDA).<sup>3</sup>

**Preparation and Updating:**

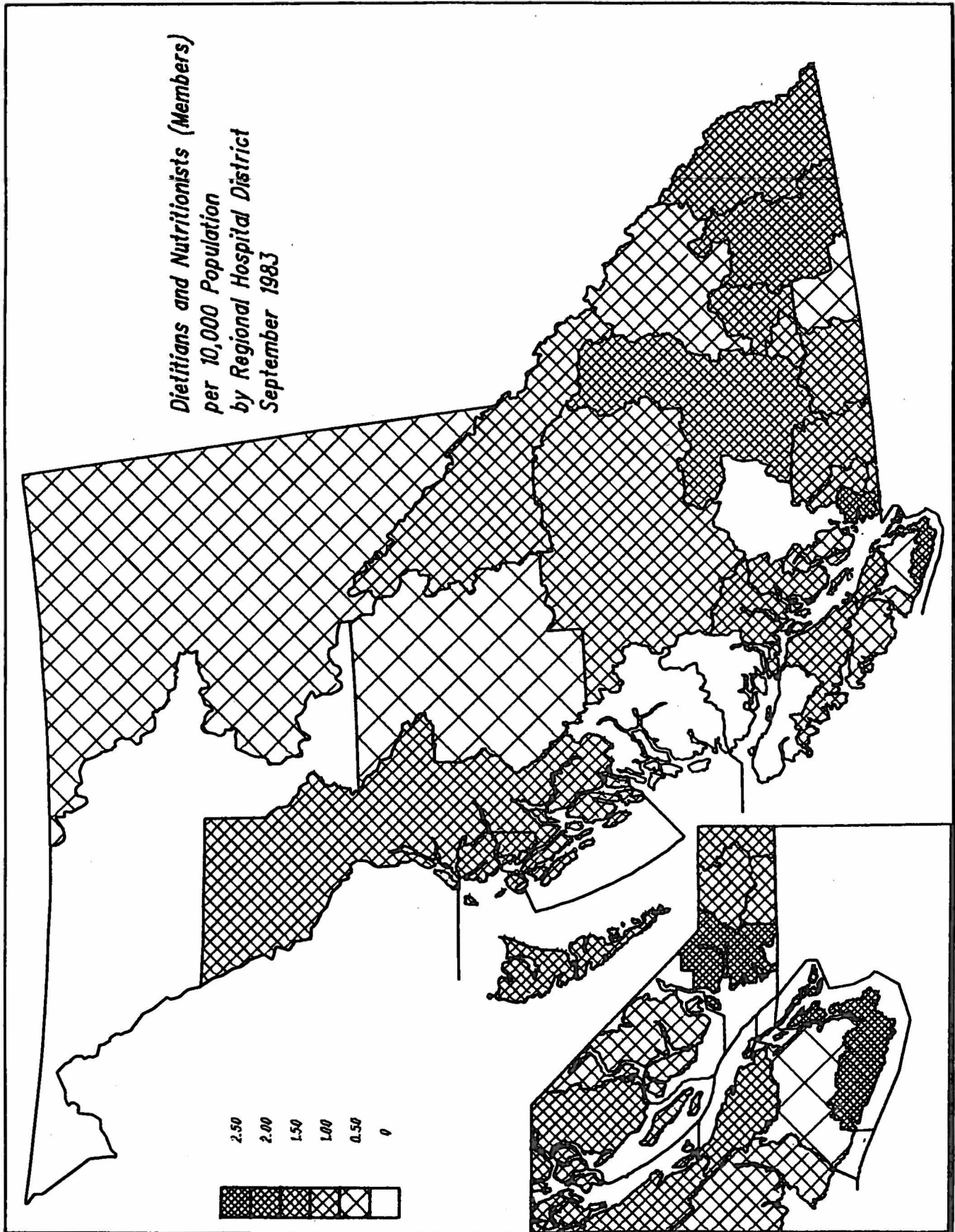
The table, derived solely from the membership lists supplied by the BCDNA and the CDA, includes members of either Association who reported a B.C. address at the date of record. Comparison with 1981 figures is, therefore, of limited value and has not been presented.

It should be noted that 39 retired, honorary and life members have not been included in the 1983 total.

---

<sup>3</sup>Compulsory registration and/or licensure do not exist. Membership in the BCDNA or the CDA is voluntary. While many members belong to both Associations, it was possible to identify such persons, thus avoiding double counting.

*Dietitians and Nutritionists (Members)  
per 10,000 Population  
by Regional Hospital District  
September 1983*



**Table 1**                      **Dietitians and Nutritionists (Members)<sup>1</sup>**  
**in British Columbia by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>	<b>116</b>	<b>0.84</b>
1 Alberni-Clayoquot	2	0.61
2 Bulkley-Nechako	1	0.25
4 Cariboo	4	0.65
5 Central Coast	0	0.0
6 Central Fraser Valley	10	0.82
7 Central Kootenay	8	1.51
8 Central Okanagan	7	0.79
9 Columbia-Shuswap	2	0.48
10 Comox-Strathcona	7	0.97
11 Cowichan Valley	1	0.18
12 Dewdney-Alouette	6	0.94
13 East Kootenay	7	1.25
14 Fraser-Cheam	6	1.03
15 Fraser-Fort George	6	0.64
17 Kitimat-Stikine	4	0.90
18 Kootenay Boundary	1	0.30
19 Mount Waddington	0	0.0
20 Nanaimo	9	1.12
21 North Okanagan	7	1.24
22 Okanagan-Similkameen	6	1.02
23 Peace River-Liard	2	0.34
24 Powell River	2	1.02
25 Skeena-Queen Charlotte	3	1.20
26 Squamish-Lillooet	0	0.0
27 Stikine	0	0.0
28 Sunshine Coast	1	0.64
29 Thompson-Nicola	14	1.33
<b>Metropolitan - Subtotal</b>	<b>357</b>	<b>2.47</b>
3 Capital	63	2.49
16 Greater Vancouver	294	2.47
<b>TOTAL</b>	<b>473</b>	<b>1.68</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>

**Date of Record:** November 1981 and November 1983.

**Source of Data:** British Columbia Food Service Supervisors' Association.<sup>2</sup>

**Preparation and Updating:**

The table, derived solely from the membership list supplied by the British Columbia Food Service Supervisors' Association, includes members who were B.C. 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.

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the British Columbia Food Service Supervisors' Association is voluntary.

*Food Service Supervisors (Members)  
per 10,000 Population  
by Regional Hospital District  
November 1983*

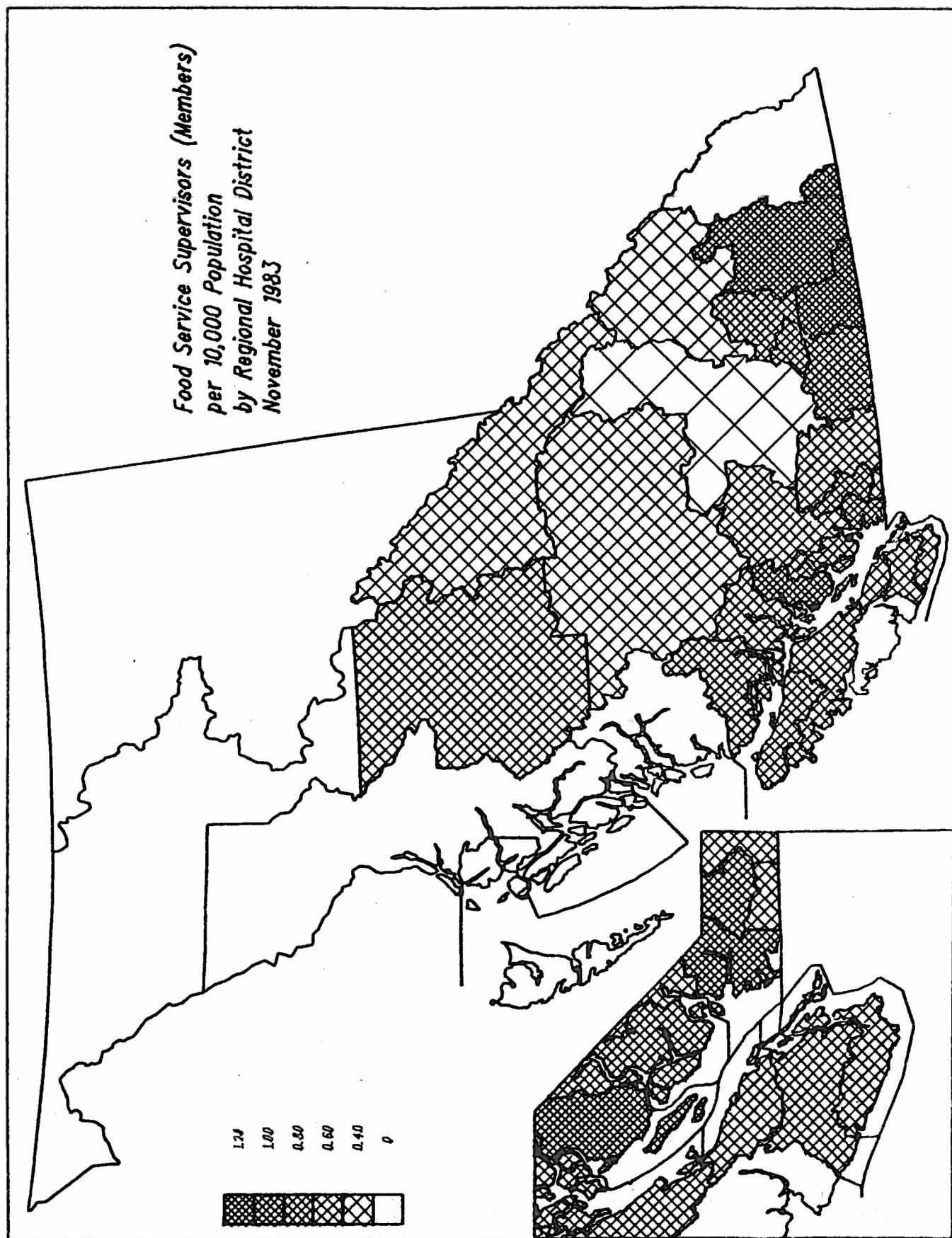


Table 1

Food Service Supervisors (Members)<sup>1</sup> in British Columbia

## by Regional Hospital District

November 1981 and November 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>48</b>	<b>65</b>	<b>0.35</b>	<b>0.47</b>	<b>18.87</b>	<b>16.64</b>
1 Alberni-Clayoquot	0	0	0.0	0.0	*	*
2 Bulkley-Nechako	0	2	0.0	0.50	*	*
4 Cariboo	0	2	0.0	0.32	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	3	6	0.26	0.49	*	*
7 Central Kootenay	4	6	0.77	1.13	*	*
8 Central Okanagan	5	7	0.59	0.79	*	*
9 Columbia-Shuswap	1	1	0.25	0.24	*	*
10 Comox-Strathcona	3	4	0.44	0.56	*	*
11 Cowichan Valley	2	3	0.38	0.55	*	*
12 Dewdney-Alouette	6	5	0.97	0.78	*	*
13 East Kootenay	0	0	0.0	0.0	*	*
14 Fraser-Cheam	1	3	0.18	0.51	*	*
15 Fraser-Fort George	4	3	0.45	0.32	*	*
17 Kitimat-Stikine	1	0	0.24	0.0	*	*
18 Kootenay Boundary	2	4	0.60	1.20	*	*
19 Mount Waddington	0	1	0.0	0.64	*	*
20 Nanaimo	3	4	0.39	0.50	*	*
21 North Okanagan	4	4	0.74	0.71	*	*
22 Okanagan-Similkameen	3	5	0.52	0.85	*	*
23 Peace River-Liard	1	0	0.18	0.0	*	*
24 Powell River	1	2	0.52	1.02	*	*
25 Skeena-Queen Charlotte	0	0	0.0	0.0	*	*
26 Squamish-Lillooet	1	1	0.53	0.51	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	0	1	0.0	0.64	*	*
29 Thompson-Nicola	1	1	0.10	0.09	*	*
<b>Metropolitan - Subtotal</b>	<b>88</b>	<b>124</b>	<b>0.62</b>	<b>0.86</b>	<b>18.71</b>	<b>17.70</b>
3 Capital	9	13	0.36	0.51	*	*
16 Greater Vancouver	79	111	0.68	0.93	18.54	17.51
<b>TOTAL</b>	<b>134</b>	<b>189</b>	<b>0.49</b>	<b>0.67</b>	<b>18.76</b>	<b>17.16</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 Manpower Research Unit  
The University of British Columbia



## 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; 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>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** The Health Record Association of British Columbia (HRABC).<sup>2</sup>

**Preparation and Updating:**

The list of members is prepared by the provincial Association, and updated by them on a monthly basis. Only members with a B.C. address at the date of record are included in Tables 1 through 3.

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

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the HRABC is voluntary.

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

HRABC membership may be *Active, Inactive, Honorary, or Affiliate.*

- (a) Active, Inactive and Honorary members may be Certificants or Associates of the Canadian College of Health Record Administrators(CCHRA):

(i) CCHRA (Certificant)

The CCHRA, the national body responsible for the education of health record personnel, bestows the additional title of CCHRA (Certificant) for HRA's, upon successful completion of its registration examination. The CCHRA (Certificant) was formerly the Registered Record Librarian(RRL).

(ii) CCHRA (Associate)

The CCHRA (Associate) is an Accredited Record Technician (ART), HRT, or HDT, who has not upgraded to HRA status and passed the certificant examination.

- (b) Affiliate members are any persons engaged in a health information setting of a health care or allied facility, who do not have formal qualifications but are interested in advancing the objectives of the association and improving personal awareness of the health information field; or, are students enrolled in a course approved by the CCHRA.

*Health Record Personnel (Active)  
per 10,000 Population  
by Regional Hospital District  
September 1983*

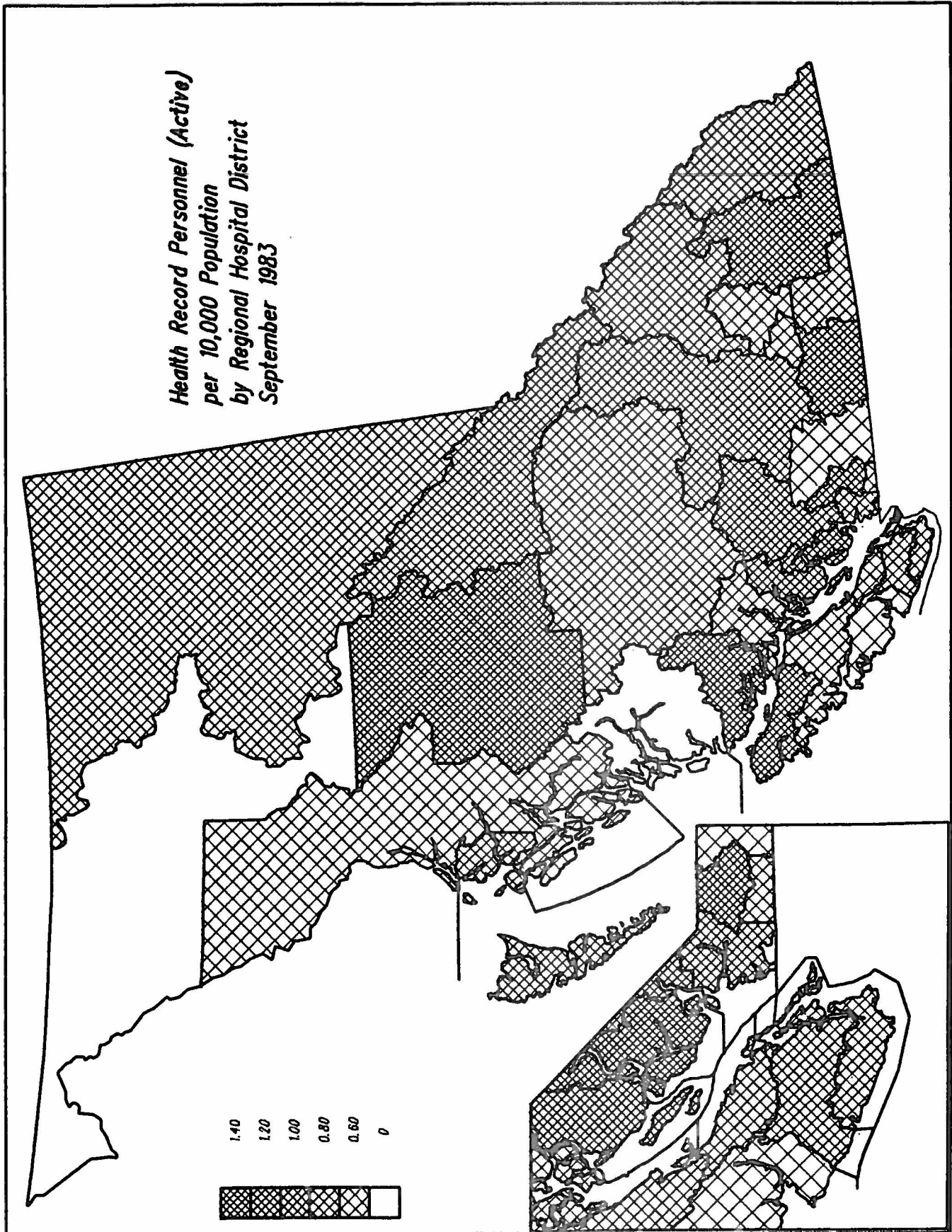


Table 1

**Health Record Personnel (Members)<sup>1</sup>**  
**by Registration Status by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Active		Affiliate		Honorary		Inactive		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>105</b>	<b>103</b>	<b>28</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>19</b>	<b>23</b>	<b>152</b>	<b>144</b>
1 Alberni-Clayoquot	2	1	0	2	0	0	1	1	3	4
2 Bulkley-Nechako	5	5	1	1	0	0	0	0	6	6
4 Cariboo	5	4	0	1	0	0	0	1	5	6
5 Central Coast	0	0	0	0	0	0	0	0	0	0
6 Central Fraser Valley	6	7	0	2	0	0	0	0	6	9
7 Central Kootenay	6	6	4	0	0	0	1	0	11	6
8 Central Okanagan	6	5	3	2	0	0	2	1	11	8
9 Columbia-Shuswap	3	3	1	1	0	0	3	2	7	6
10 Comox-Strathcona	1	4	0	0	0	0	0	1	1	5
11 Cowichan Valley	5	4	1	3	0	0	0	1	6	8
12 Dewdney-Alouette	7	8	0	1	0	0	2	2	9	11
13 East Kootenay	1	4	2	0	0	0	1	1	4	5
14 Fraser-Cheam	3	2	0	0	0	0	0	0	3	2
15 Fraser-Fort George	7	8	2	0	0	0	1	1	10	9
17 Kitimat-Stikine	3	2	1	0	0	0	0	1	4	3
18 Kootenay Boundary	4	2	3	0	0	0	1	2	8	4
19 Mount Waddington	2	2	0	0	0	0	0	0	2	2
20 Nanaimo	6	5	1	1	0	0	1	1	8	7
21 North Okanagan	3	3	1	0	0	0	0	2	4	5
22 Okanagan-Similkameen	8	7	1	1	0	0	0	0	9	8
23 Peace River-Liard	5	4	2	1	0	0	0	2	7	7
24 Powell River	3	2	0	0	0	0	0	0	3	2
25 Skeena-Queen Charlotte	3	2	1	1	0	0	1	0	5	3
26 Squamish-Lillooet	3	2	1	0	0	0	0	0	4	2
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	1	2	0	0	0	0	1	1	2	3
29 Thompson-Nicola	7	9	3	1	0	0	4	3	14	13
<b>Metropolitan - Subtotal</b>	<b>104</b>	<b>118</b>	<b>41</b>	<b>27</b>	<b>4</b>	<b>4</b>	<b>17</b>	<b>16</b>	<b>166</b>	<b>165</b>
3 Capital	18	17	2	3	0	0	5	4	25	24
16 Greater Vancouver	86	101	39	24	4	4	12	12	141	141
<b>TOTAL</b>	<b>209</b>	<b>221</b>	<b>69</b>	<b>45</b>	<b>4</b>	<b>4</b>	<b>36</b>	<b>39</b>	<b>318</b>	<b>309</b>

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

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 Health Manpower Research Unit  
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Table 2

**Health Record Personnel (Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Registration Status by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Active		Affiliate		Honorary		Inactive		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>0.79</b>	<b>0.75</b>	<b>0.21</b>	<b>0.13</b>	<b>0.0</b>	<b>0.0</b>	<b>0.14</b>	<b>0.17</b>	<b>1.15</b>	<b>1.05</b>
1 Alberni-Clayoquot	0.61	0.30	0.0	0.61	0.0	0.0	0.31	0.30	0.92	1.21
2 Bulkley-Nechako	1.31	1.25	0.26	0.25	0.0	0.0	0.0	0.0	1.57	1.50
4 Cariboo	0.84	0.65	0.0	0.16	0.0	0.0	0.0	0.16	0.84	0.97
5 Central Coast	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6 Central Fraser Valley	0.52	0.57	0.0	0.16	0.0	0.0	0.0	0.0	0.52	0.74
7 Central Kootenay	1.15	1.13	0.77	0.0	0.0	0.0	0.19	0.0	2.11	1.13
8 Central Okanagan	0.70	0.57	0.35	0.23	0.0	0.0	0.23	0.11	1.29	0.90
9 Columbia-Shuswap	0.75	0.72	0.25	0.24	0.0	0.0	0.75	0.48	1.74	1.44
10 Comox-Strathcona	0.15	0.56	0.0	0.0	0.0	0.0	0.0	0.14	0.15	0.70
11 Cowichan Valley	0.95	0.73	0.19	0.55	0.0	0.0	0.0	0.18	1.14	1.47
12 Dewdney-Alouette	1.13	1.25	0.0	0.16	0.0	0.0	0.32	0.31	1.45	1.72
13 East Kootenay	0.19	0.72	0.37	0.0	0.0	0.0	0.19	0.18	0.74	0.90
14 Fraser-Cheam	0.53	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.34
15 Fraser-Fort George	0.78	0.86	0.22	0.0	0.0	0.0	0.11	0.11	1.12	0.97
17 Kitimat-Stikine	0.71	0.45	0.24	0.0	0.0	0.0	0.0	0.23	0.94	0.68
18 Kootenay Boundary	1.20	0.60	0.90	0.0	0.0	0.0	0.30	0.60	2.41	1.20
19 Mount Waddington	1.36	1.29	0.0	0.0	0.0	0.0	0.0	0.0	1.36	1.29
20 Nanaimo	0.78	0.62	0.13	0.12	0.0	0.0	0.13	0.12	1.04	0.87
21 North Okanagan	0.55	0.53	0.18	0.0	0.0	0.0	0.0	0.35	0.74	0.88
22 Okanagan-Similkameen	1.40	1.19	0.17	0.17	0.0	0.0	0.0	0.0	1.57	1.36
23 Peace River-Liard	0.90	0.68	0.36	0.17	0.0	0.0	0.0	0.34	1.26	1.18
24 Powell River	1.55	1.02	0.0	0.0	0.0	0.0	0.0	0.0	1.55	1.02
25 Skeena-Queen Charlotte	1.25	0.80	0.42	0.40	0.0	0.0	0.42	0.0	2.08	1.20
26 Squamish-Lillooet	1.58	1.02	0.53	0.0	0.0	0.0	0.0	0.0	2.11	1.02
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Sunshine Coast	0.65	1.27	0.0	0.0	0.0	0.0	0.65	0.64	1.29	1.91
29 Thompson-Nicola	0.69	0.85	0.29	0.09	0.0	0.0	0.39	0.28	1.37	1.23
<b>Metropolitan - Subtotal</b>	<b>0.73</b>	<b>0.82</b>	<b>0.29</b>	<b>0.19</b>	<b>0.03</b>	<b>0.03</b>	<b>0.12</b>	<b>0.11</b>	<b>1.17</b>	<b>1.14</b>
3 Capital	0.72	0.67	0.08	0.12	0.0	0.0	0.20	0.16	1.00	0.95
16 Greater Vancouver	0.74	0.85	0.33	0.20	0.03	0.03	0.10	0.10	1.21	1.18
<b>TOTAL</b>	<b>0.76</b>	<b>0.78</b>	<b>0.25</b>	<b>0.16</b>	<b>0.01</b>	<b>0.01</b>	<b>0.13</b>	<b>0.14</b>	<b>1.16</b>	<b>1.10</b>

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

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Table 3

Average Annual Rate of Change; Health Record Personnel (Members)<sup>1</sup>  
in British Columbia by Registration Status by Regional Hospital District  
September 1981 and September 1983

Regional Hospital District	Active		Affiliate		Honorary		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>	Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>-0.96</b>	<b>-2.82</b>	<b>-19.82</b>	<b>-21.33</b>	*	*	<b>10.02</b>	<b>7.96</b>	<b>-2.67</b>	<b>-4.50</b>
1 Alberni-Clayoquot	*	*	*	*	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	*	*	*	*	*	*
4 Cariboo	*	*	*	*	*	*	*	*	*	*
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	*	*	*	*	*	*	*	*	*	*
7 Central Kootenay	*	*	*	*	*	*	*	*	-26.15	-26.83
8 Central Okanagan	*	*	*	*	*	*	*	*	-14.72	-16.30
9 Columbia-Shuswap	*	*	*	*	*	*	*	*	*	*
10 Comox-Strathcona	*	*	*	*	*	*	*	*	*	*
11 Cowichan Valley	*	*	*	*	*	*	*	*	*	*
12 Dewdney-Alouette	*	*	*	*	*	*	*	*	*	*
13 East Kootenay	*	*	*	*	*	*	*	*	*	*
14 Fraser-Cheam	*	*	*	*	*	*	*	*	*	*
15 Fraser-Fort George	*	*	*	*	*	*	*	*	-5.13	-7.08
17 Kitimat-Stikine	*	*	*	*	*	*	*	*	*	*
18 Kootenay Boundary	*	*	*	*	*	*	*	*	*	*
19 Mount Waddington	*	*	*	*	*	*	*	*	*	*
20 Nanaimo	*	*	*	*	*	*	*	*	*	*
21 North Okanagan	*	*	*	*	*	*	*	*	*	*
22 Dkanagan-Similkameen	*	*	*	*	*	*	*	*	*	*
23 Peace River-Liard	*	*	*	*	*	*	*	*	*	*
24 Powell River	*	*	*	*	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	*	*	*	*
29 Thompson-Nicola	*	*	*	*	*	*	*	*	-3.64	-5.16
<b>Metropolitan - Subtotal</b>	<b>6.52</b>	<b>5.62</b>	<b>-18.85</b>	<b>-19.53</b>	*	*	<b>-2.99</b>	<b>-3.80</b>	<b>-0.30</b>	<b>-1.14</b>
3 Capital	-2.82	-3.54	*	*	*	*	*	*	-2.02	-2.75
16 Greater Vancouver	8.37	7.43	-21.55	-22.23	*	*	0.00	-0.87	0.00	-0.87
<b>TOTAL</b>	<b>2.83</b>	<b>1.44</b>	<b>-19.24</b>	<b>-20.33</b>	*	*	<b>4.08</b>	<b>2.68</b>	<b>-1.43</b>	<b>-2.75</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 Manpower Research 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 policymaking.

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

**Date of Record:** September 1983.

**Source of Data:** The Canadian College of Health Service Executives(CCHSE), the Health Administrators' Association of British Columbia(HAABC), and the American College of Hospital Administrators(ACHA).

**Preparation and Updating:**

This group appears for the first time in *ROLLCALL 83*. The table, derived solely from the membership lists supplied by the CCHSE, the HAABC and the ACHA, includes members of any of these bodies who reported a B.C. address at the date of record. All categories included in the definitions on the following pages are considered part of the work force. There are no *Provisional* members in B.C. at this time.

## Definition of Terms:

### 1. Active, Associate Membership In CCHSE

After initial registration all members remain in the *Associate* category for a minimum of one year after which those members who have a minimum of five years' experience at the senior level (three years in the case of graduates of master's programs in health administration), advance to the *Active* category.

Both advancement and continuing membership is contingent upon maintenance of a continuing professional development and education program.

Membership in the College is open to any one of the following:

- (a) senior manager in a health care organization;
- (b) consultant to senior health services managers;
- (c) faculty in Health Administration Programs;
- (d) those with graduate degrees in health administration.<sup>1</sup>

### 2. Active, Associate, Provisional Membership in HAABC

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

An *Associate* member is a person who is deemed to have appropriate experience in the health administration field but lacks the educational qualifications necessary to be an *Active* member.

A *Provisional* member is actively engaged in the field of health administration and is currently in the process of acquiring the educational qualifications necessary to become an *Active* member.<sup>2</sup>

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<sup>1</sup>Adapted from information received from CCHSE.

<sup>2</sup>Adapted from information received from HAABC.

It should be noted that 13 life and honorary members of the HAABC have not been included in the 1983 total.

### 3. Membership in ACHA

A candidate for membership is approved upon meeting any one of the following requirements:

- (a) holds a graduate degree from an acceptable hospital or health services administration program and has secured an acceptable health services administrative position;
- (b) holds any other graduate degree and has at least one year's experience in an acceptable health services administrative position;
- (c) holds a baccalaureate degree and has at least three years' experience in an acceptable health services administrative position;
- (d) is a researcher, faculty member or director in a hospital or health services administrative program.

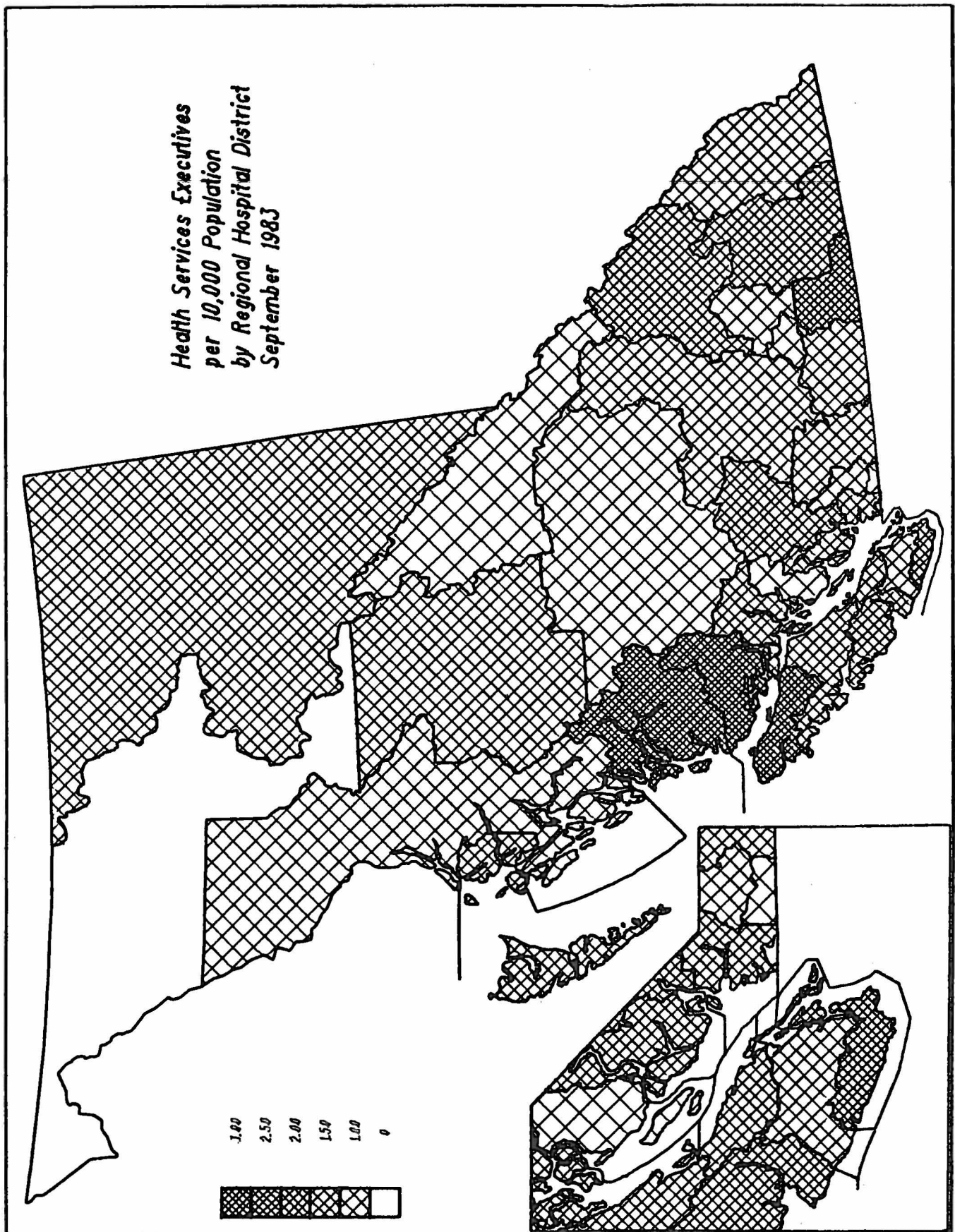
The applicant is admitted to the College as a *Nominee* and remains in that category for at least two years. Within 5 years *Nominees* must meet the following criteria for advancement to *Membership* status:

- (a) participation and leadership in health care affairs;
- (b) personal program of continuing professional education;
- (c) acceptable references from peers;
- (d) successful completion of a Board of Governors Examination.<sup>3</sup>

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<sup>3</sup>Adapted from information received from ACHA.

*Health Services Executives  
per 10,000 Population  
by Regional Hospital District  
September 1983*



**Table 1** **Health Services Executives<sup>1</sup>**  
**in British Columbia by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>	<b>136</b>	<b>0.99</b>
1 Alberni-Clayoquot	5	1.51
2 Bulkley-Nechako	4	1.00
4 Cariboo	4	0.65
5 Central Coast	1	3.18
6 Central Fraser Valley	6	0.49
7 Central Kootenay	8	1.51
8 Central Okanagan	6	0.68
9 Columbia-Shuswap	6	1.44
10 Comox-Strathcona	9	1.25
11 Cowichan Valley	5	0.92
12 Dewdney-Alouette	5	0.78
13 East Kootenay	5	0.90
14 Fraser-Cheam	6	1.03
15 Fraser-Fort George	5	0.54
17 Kitimat-Stikine	3	0.68
18 Kootenay Boundary	8	2.39
19 Mount Waddington	5	3.22
20 Nanaimo	10	1.24
21 North Okanagan	4	0.71
22 Okanagan-Similkameen	6	1.02
23 Peace River-Liard	6	1.01
24 Powell River	1	0.51
25 Skeena-Queen Charlotte	3	1.20
26 Squamish-Lillooet	3	1.53
27 Stikine	0	0.0
28 Sunshine Coast	2	1.27
29 Thompson-Nicola	10	0.95
<b>Metropolitan - Subtotal</b>	<b>196</b>	<b>1.36</b>
3 Capital	50	1.97
16 Greater Vancouver	146	1.23
<b>TOTAL</b>	<b>332</b>	<b>1.18</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia





**LICENSED PRACTICAL NURSES**



## LICENSED PRACTICAL NURSES

**Definition:** A licensed practical nurse:

"Functions *under the supervision* of a registered nurse. In many settings the licensed practical nurse also works under the supervision of a registered psychiatric nurse. Employers follow the Guide issued by the British Columbia Council of Practical Nurses stating what the LPN has been taught and is prepared to perform. The Licensed Practical Nurse is primarily engaged in direct care of clients/patients in a wide variety of health care settings subject to the policies of the employing agency. Health care agencies can be acute, extended, intermediate or personal care; home care, public health, and/or community health and mental health care."<sup>1</sup>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** British Columbia Council of Practical Nurses.<sup>2</sup>

**Preparation and Updating:**

Notification of new registrants or change in location or type of registration is received by the Health Manpower Research Unit from the Council on a monthly basis. These updates are entered, after careful editing and reconciliation of inconsistencies, into *LPNFILE*, a dynamic computer-based file.

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<sup>1</sup>*Guide to the Definition of The Roles and Functions of the Licensed Practical Nurse, the Registered Nurse and the Registered Psychiatric Nurse.* Joint Statement of, The Licensed Practical Nurses' Association of British Columbia, The Registered Nurses' Association of British Columbia and The Registered Psychiatric Nurses' Association of British Columbia, February 1977, p. 7.

See also *Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, No. 3134-110, p. 54, Ottawa: Employment and Immigration Canada.

<sup>2</sup>In order to practice as a Licensed Practical Nurse in British Columbia, it is necessary to be registered by the British Columbia Council of Practical Nurses and to hold a valid licence.

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

Every person licensed as a member of the B.C. Council of Practical Nurses is entitled to use and assume the designation Licensed Practical Nurse (LPN).

The tables include LPNs who were B.C. residents at the date of record.

**2. Employment Status**

Employment status was reported by the registrant on the annual renewal fee form. Tables 1 and 2 show 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

**3. Place of Employment**

Place of employment was reported by the registrant on the annual renewal fee form. Tables 3 and 4 show type of employing institution for LPNs employed in nursing. The categories used are:

- (a) Acute Care Hospital
- (b) Activation/Rehabilitation Hospital
- (c) Extended Care Hospital
- (d) Psychiatric Hospital
- (e) Intermediate Care Facility
- (f) Personal Care Facility
- (g) Community Health Agency (including Home Care)
- (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 renewal fee form. Tables 5 and 6 show field of practice for LPNs 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) Pediatric
- (f) Geriatric
- (g) Generalized Practice (e.g., float pool, occupational health, small general hospital)
- (h) Teaching
- (i) Administration
- (j) Research
- (k) Other

**5. Job Title**

Job title was reported by the registrant on the annual renewal fee form. Tables 7 and 8 show job title for LPNs employed in nursing. The categories used are:

- (a) LPN
- (b) Geriatric Aide
- (c) Unit Clerk
- (d) Other

*Licensed Practical Nurses  
Employed in Nursing  
per 10,000 Population  
by Regional Hospital District  
September 1983*

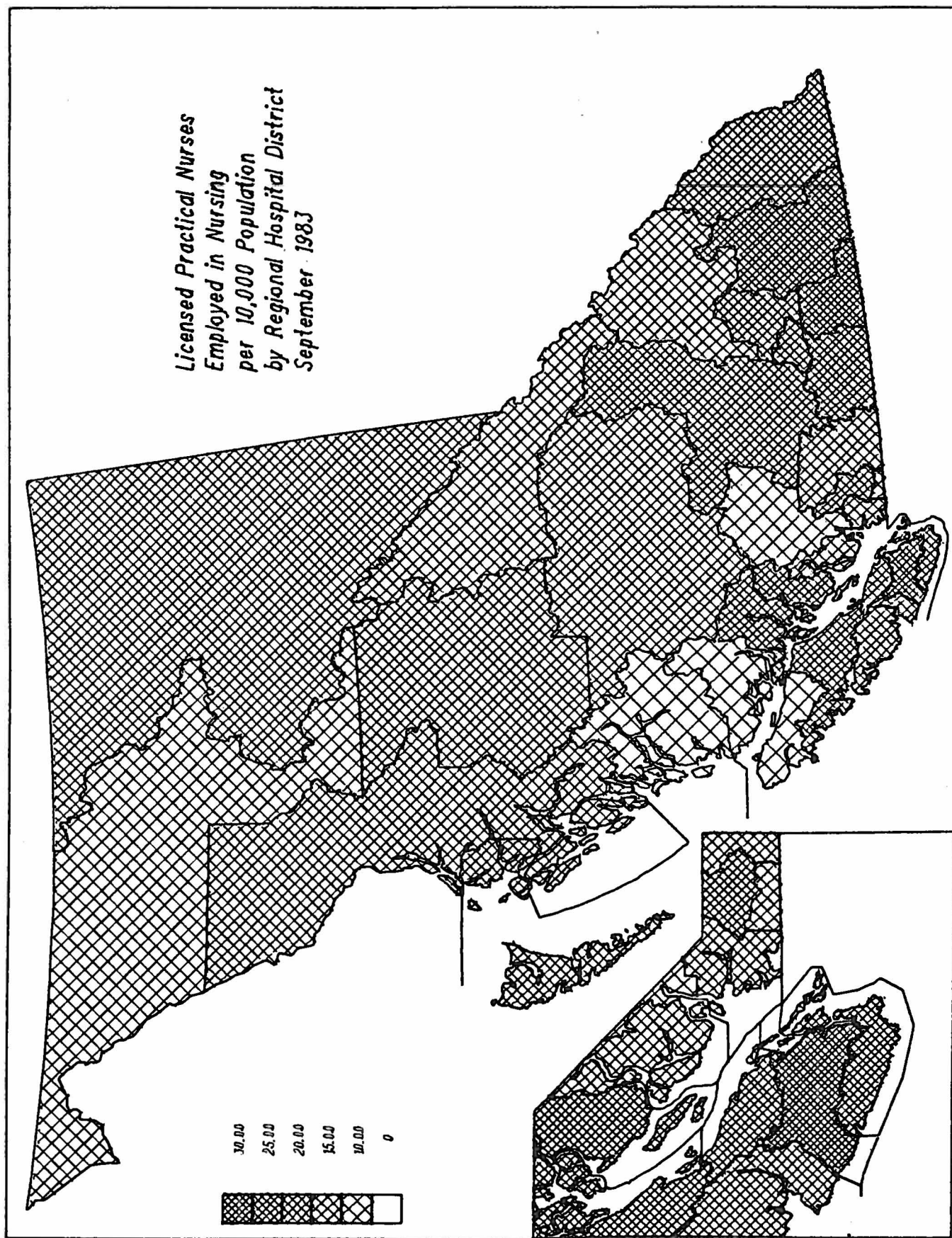




Table 1

**Licensed Practical Nurses<sup>1</sup> in British Columbia**  
**by Employment Status by Regional Hospital District**  
**September 1983**

Regional Hospital District	Employed in Nursing			Employed in other than Nursing	Not Employed	Not Answered	Total
	Regular	Casual	Subtotal <sup>2</sup>				
<b>Non-Metropolitan - Subtotal</b>	<b>1,744</b>	<b>745</b>	<b>2,508</b>	<b>302</b>	<b>784</b>	<b>149</b>	<b>3,743</b>
1 Alberni-Clayoquot	39	17	58	9	19	2	88
2 Bulkley-Nechako	40	19	59	10	27	2	98
4 Cariboo	54	33	87	12	43	4	146
5 Central Coast	1	1	2	0	1	0	3
6 Central Fraser Valley	119	32	151	15	54	12	232
7 Central Kootenay	93	44	138	15	43	10	206
8 Central Okanagan	123	55	180	19	37	4	240
9 Columbia-Shuswap	36	14	50	8	27	6	91
10 Comox-Strathcona	105	51	157	13	43	9	222
11 Cowichan Valley	112	56	168	12	53	9	242
12 Dewdney-Alouette	98	38	136	6	25	6	173
13 East Kootenay	75	34	109	13	40	11	173
14 Fraser-Cheam	62	23	85	11	40	8	144
15 Fraser-Fort George	66	44	113	29	45	6	193
17 Kitimat-Stikine	40	20	61	10	14	3	88
18 Kootenay Boundary	60	38	99	6	21	1	127
19 Mount Waddington	7	3	10	6	8	2	26
20 Nanaimo	126	48	175	24	52	12	263
21 North Okanagan	77	30	108	12	35	9	164
22 Okanagan-Similkameen	107	28	137	10	24	7	178
23 Peace River-Liard	56	32	89	18	40	3	150
24 Powell River	35	10	45	4	16	2	67
25 Skeena-Queen Charlotte	31	10	41	10	10	7	68
26 Squamish-Lillooet	9	6	15	8	6	1	30
27 Stikine	1	1	2	1	2	0	5
28 Sunshine Coast	13	8	21	1	12	4	38
29 Thompson-Nicola	159	50	212	20	47	9	288
<b>Metropolitan - Subtotal</b>	<b>1,778</b>	<b>460</b>	<b>2,269</b>	<b>228</b>	<b>550</b>	<b>101</b>	<b>3,148</b>
3 Capital	456	135	595	53	144	20	812
16 Greater Vancouver	1,322	325	1,674	175	406	81	2,336
<b>TOTAL</b>	<b>3,522</b>	<b>1,205</b>	<b>4,777</b>	<b>530</b>	<b>1,334</b>	<b>250</b>	<b>6,891</b>

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

<sup>2</sup> Includes 50 LPNs who have indicated employment in nursing but did not specify regular or casual employment.

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Table 2

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>2,565</b>	<b>2,508</b>	<b>19.36</b>	<b>18.22</b>	<b>-1.12</b>	<b>-2.98</b>
1 Alberni-Clayoquot	71	58	21.81	17.56	-9.62	-10.27
2 Bulkley-Nechako	57	59	14.88	14.72	1.74	-0.52
4 Cariboo	107	87	18.06	14.08	-9.83	-11.71
5 Central Coast	1	2	3.28	6.36	*	*
6 Central Fraser Valley	165	151	14.35	12.35	-4.34	-7.20
7 Central Kootenay	124	138	23.83	26.03	5.49	4.52
8 Central Okanagan	174	180	20.41	20.34	1.71	-0.17
9 Columbia-Shuswap	40	50	9.97	11.97	11.80	9.60
10 Comox-Strathcona	161	157	23.46	21.86	-1.25	-3.47
11 Cowichan Valley	169	168	32.07	30.83	-0.30	-1.94
12 Dewdney-Alouette	125	136	20.16	21.27	4.31	2.73
13 East Kootenay	111	109	20.66	19.51	-0.90	-2.82
14 Fraser-Cheam	108	85	18.97	14.59	-11.28	-12.30
15 Fraser-Fort George	120	113	13.42	12.12	-2.96	-4.95
17 Kitimat-Stikine	64	61	15.09	13.80	-2.37	-4.40
18 Kootenay Boundary	98	99	29.49	29.61	0.51	0.21
19 Mount Waddington	10	10	6.82	6.44	0.00	-2.80
20 Nanaimo	175	175	22.70	21.72	0.00	-2.18
21 North Okanagan	107	108	19.69	19.11	0.47	-1.48
22 Okanagan-Similkameen	130	137	22.73	23.30	2.66	1.23
23 Peace River-Liard	112	89	20.19	15.04	-10.86	-13.70
24 Powell River	41	45	21.17	23.05	4.76	4.34
25 Skeena-Queen Charlotte	46	41	19.15	16.46	-5.59	-7.29
26 Squamish-Lillooet	14	15	7.40	7.66	3.51	1.76
27 Stikine	0	2	0.0	9.	*	*
28 Sunshine Coast	21	21	13.55	13.38	0.00	-0.60
29 Thompson-Nicola	214	212	20.98	20.13	-0.47	-2.04
<b>Metropolitan - Subtotal</b>	<b>2,378</b>	<b>2,269</b>	<b>16.75</b>	<b>15.72</b>	<b>-2.32</b>	<b>-3.14</b>
3 Capital	628	595	25.17	23.50	-2.66	-3.39
16 Greater Vancouver	1,750	1,674	14.96	14.06	-2.20	-3.04
<b>TOTAL</b>	<b>4,943</b>	<b>4,777</b>	<b>18.01</b>	<b>16.94</b>	<b>-1.89</b>	<b>-3.02</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 3

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Place of Employment by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Acute Care Hospital</u>	<u>Activation/ Rehab. Hospital</u>	<u>Extended Care Hospital</u>	<u>Psychiatric Hospital</u>	<u>Intermediate Care Facility</u>	<u>Personal Care Facility</u>	<u>Institutional Care Subtotal</u>
<b>Non-Metropolitan - Subtotal</b>	<b>2,111</b>	<b>3</b>	<b>93</b>	<b>17</b>	<b>132</b>	<b>25</b>	<b>2,381</b>
1 Alberni-Clayoquot	43	1	0	0	11	1	56
2 Bulkley-Nechako	47	0	0	0	2	2	51
4 Cariboo	83	0	1	0	0	1	85
5 Central Coast	2	0	0	0	0	0	2
6 Central Fraser Valley	124	0	2	2	13	2	143
7 Central Kootenay	90	0	32	0	3	0	125
8 Central Okanagan	158	0	9	1	1	4	173
9 Columbia-Shuswap	43	0	1	1	4	1	50
10 Comox-Strathcona	132	1	3	0	13	0	149
11 Cowichan Valley	145	0	5	0	12	0	162
12 Dewdney-Alouette	114	0	0	11	6	1	132
13 East Kootenay	92	0	2	0	9	1	104
14 Fraser-Cheam	76	0	0	1	3	1	81
15 Fraser-Fort George	99	0	0	0	1	1	101
17 Kitimat-Stikine	55	0	1	0	0	0	56
18 Kootenay Boundary	90	0	1	0	6	1	98
19 Mount Waddington	7	0	0	0	0	0	7
20 Nanaimo	142	1	10	0	13	1	167
21 North Okanagan	101	0	2	0	2	2	107
22 Okanagan-Similkameen	127	0	1	0	5	0	133
23 Peace River-Liard	62	0	7	0	12	1	82
24 Powell River	34	0	1	0	5	3	43
25 Skeena-Queen Charlotte	37	0	0	0	1	0	38
26 Squamish-Lillooet	14	0	0	0	0	0	14
27 Stikine	1	0	0	0	0	0	1
28 Sunshine Coast	19	0	0	0	2	0	21
29 Thompson-Nicola	174	0	15	1	8	2	200
<b>Metropolitan - Subtotal</b>	<b>1,630</b>	<b>148</b>	<b>118</b>	<b>23</b>	<b>93</b>	<b>52</b>	<b>2,054</b>
3 Capital	333	95	69	2	30	10	539
16 Greater Vancouver	1,297	53	49	21	63	42	1,525
<b>TOTAL</b>	<b>3,741</b>	<b>151</b>	<b>211</b>	<b>40</b>	<b>225</b>	<b>77</b>	<b>4,445</b>

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

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... continued

Table 3  
(Continued)

Licensed Practical Nurses' Employed in Nursing in British Columbia  
by Place of Employment by Regional Hospital District  
September 1983

Regional Hospital District	Community Health Agency	Physician's Office	Educational Institution	Business/ Industry	Other <sup>1</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>25</b>	<b>77</b>	<b>3</b>	<b>6</b>	<b>16</b>	<b>2,508</b>
1 Alberni-Clayoquot	0	2	0	0	0	58
2 Bulkley-Nechako	1	7	0	0	0	59
4 Cariboo	1	1	0	0	0	87
5 Central Coast	0	0	0	0	0	2
6 Central Fraser Valley	1	3	0	2	2	151
7 Central Kootenay	3	9	0	0	1	138
8 Central Okanagan	1	4	1	0	1	180
9 Columbia-Shuswap	0	0	0	0	0	50
10 Comox-Strathcona	3	2	1	1	1	157
11 Cowichan Valley	2	4	0	0	0	168
12 Dewdney-Alouette	0	3	0	0	1	136
13 East Kootenay	0	4	0	0	1	109
14 Fraser-Cheam	0	2	0	0	2	85
15 Fraser-Fort George	2	9	0	0	1	113
17 Kitimat-Stikine	0	3	0	1	1	61
18 Kootenay Boundary	0	1	0	0	0	99
19 Mount Waddington	0	2	0	0	1	10
20 Nanaimo	5	3	0	0	0	175
21 North Okanagan	0	0	0	1	0	108
22 Okanagan-Similkameen	2	2	0	0	0	137
23 Peace River-Liard	0	5	0	0	2	89
24 Powell River	1	1	0	0	0	45
25 Skeena-Queen Charlotte	1	1	0	1	0	41
26 Squamish-Lillooet	1	0	0	0	0	15
27 Stikine	1	0	0	0	0	2
28 Sunshine Coast	0	0	0	0	0	21
29 Thompson-Nicola	0	9	1	0	2	212
<b>Metropolitan - Subtotal</b>	<b>85</b>	<b>77</b>	<b>5</b>	<b>13</b>	<b>25</b>	<b>2,269</b>
3 Capital	16	24	0	4	12	595
16 Greater Vancouver	69	53	5	9	13	1,674
<b>TOTAL</b>	<b>110</b>	<b>154</b>	<b>8</b>	<b>19</b>	<b>41</b>	<b>4,777</b>

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

<sup>2</sup> Includes 17 LPNs who did not provide this information.

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Table 4

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Place of Employment by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Acute Care Hospital</u>	<u>Activation/ Rehab. Hospital</u>	<u>Extended Care Hospital</u>	<u>Psychiatric Hospital</u>	<u>Intermediate Care Facility</u>	<u>Personal Care Facility</u>	<u>Institutional Care Subtotal</u>
<b>Non-Metropolitan - Subtotal</b>	<b>15.34</b>	<b>0.02</b>	<b>0.68</b>	<b>0.12</b>	<b>0.96</b>	<b>0.18</b>	<b>17.30</b>
1 Alberni-Clayoquot	13.02	0.30	0.0	0.0	3.33	0.30	16.95
2 Bulkley-Nechako	11.73	0.0	0.0	0.0	0.50	0.50	12.73
4 Cariboo	13.43	0.0	0.16	0.0	0.0	0.16	13.75
5 Central Coast	6.36	0.0	0.0	0.0	0.0	0.0	6.36
6 Central Fraser Valley	10.14	0.0	0.16	0.16	1.06	0.16	11.70
7 Central Kootenay	16.98	0.0	6.04	0.0	0.57	0.0	23.58
8 Central Okanagan	17.86	0.0	1.02	0.11	0.11	0.45	19.55
9 Columbia-Shuswap	10.30	0.0	0.24	0.24	0.96	0.24	11.97
10 Comox-Strathcona	18.38	0.14	0.42	0.0	1.81	0.0	20.75
11 Cowichan Valley	26.61	0.0	0.92	0.0	2.20	0.0	29.73
12 Dewdney-Alouette	17.83	0.0	0.0	1.72	0.94	0.16	20.65
13 East Kootenay	16.47	0.0	0.36	0.0	1.61	0.18	18.62
14 Fraser-Cheam	13.05	0.0	0.0	0.17	0.51	0.17	13.90
15 Fraser-Fort George	10.62	0.0	0.0	0.0	0.11	0.11	10.84
17 Kitimat-Stikine	12.44	0.0	0.23	0.0	0.0	0.0	12.67
18 Kootenay Boundary	26.92	0.0	0.30	0.0	1.79	0.30	29.32
19 Mount Waddington	4.51	0.0	0.0	0.0	0.0	0.0	4.51
20 Nanaimo	17.62	0.12	1.24	0.0	1.61	0.12	20.73
21 North Okanagan	17.87	0.0	0.35	0.0	0.35	0.35	18.93
22 Okanagan-Similkameen	21.60	0.0	0.17	0.0	0.85	0.0	22.62
23 Peace River-Liard	10.48	0.0	1.18	0.0	2.03	0.17	13.86
24 Powell River	17.42	0.0	0.51	0.0	2.56	1.54	22.03
25 Skeena-Queen Charlotte	14.85	0.0	0.0	0.0	0.40	0.0	15.25
26 Squamish-Lillooet	7.15	0.0	0.0	0.0	0.0	0.0	7.15
27 Stikine	4.88	0.0	0.0	0.0	0.0	0.0	4.88
28 Sunshine Coast	12.11	0.0	0.0	0.0	1.27	0.0	13.38
29 Thompson-Nicola	16.53	0.0	1.42	0.09	0.76	0.19	18.99
<b>Metropolitan - Subtotal</b>	<b>11.29</b>	<b>1.03</b>	<b>0.82</b>	<b>0.16</b>	<b>0.64</b>	<b>0.36</b>	<b>14.30</b>
3 Capital	13.15	3.75	2.72	0.08	1.18	0.39	21.29
16 Greater Vancouver	10.90	0.45	0.41	0.18	0.53	0.35	12.81
<b>TOTAL</b>	<b>13.27</b>	<b>0.54</b>	<b>0.75</b>	<b>0.14</b>	<b>0.80</b>	<b>0.27</b>	<b>15.76</b>

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

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... continued

**Table 4**  
(Continued)

**Licensed Practical Nurses' Employed in Nursing in British Columbia  
per 10,000 Population by Place of Employment by Regional Hospital District  
September 1983**

<u>Regional Hospital District</u>	<u>Community Health Agency</u>	<u>Physician's Office</u>	<u>Educational Institution</u>	<u>Business/ Industry</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>0.18</b>	<b>0.56</b>	<b>0.02</b>	<b>0.04</b>	<b>0.12</b>	<b>18.22</b>
1 Alberni-Clayoquot	0.0	0.61	0.0	0.0	0.0	17.56
2 Bulkley-Nechako	0.25	1.75	0.0	0.0	0.0	14.72
4 Cariboo	0.16	0.16	0.0	0.0	0.0	14.08
5 Central Coast	0.0	0.0	0.0	0.0	0.0	6.36
6 Central Fraser Valley	0.08	0.25	0.0	0.16	0.16	12.35
7 Central Kootenay	0.57	1.70	0.0	0.0	0.19	26.03
8 Central Okanagan	0.11	0.45	0.11	0.0	0.11	20.34
9 Columbia-Shuswap	0.0	0.0	0.0	0.0	0.0	11.97
10 Comox-Strathcona	0.42	0.28	0.14	0.14	0.14	21.86
11 Cowichan Valley	0.37	0.73	0.0	0.0	0.0	30.83
12 Dewdney-Alouette	0.0	0.47	0.0	0.0	0.16	21.27
13 East Kootenay	0.0	0.72	0.0	0.0	0.18	19.51
14 Fraser-Cheam	0.0	0.34	0.0	0.0	0.34	14.59
15 Fraser-Fort George	0.21	0.97	0.0	0.0	0.11	12.12
17 Kitimat-Stikine	0.0	0.68	0.0	0.23	0.23	13.80
18 Kootenay Boundary	0.0	0.30	0.0	0.0	0.0	29.61
19 Mount Waddington	0.0	1.29	0.0	0.0	0.64	6.44
20 Nanaimo	0.62	0.37	0.0	0.0	0.0	21.72
21 North Okanagan	0.0	0.0	0.0	0.18	0.0	19.11
22 Okanagan-Similkameen	0.34	0.34	0.0	0.0	0.0	23.30
23 Peace River-Liard	0.0	0.84	0.0	0.0	0.34	15.04
24 Powell River	0.51	0.51	0.0	0.0	0.0	23.05
25 Skeena-Queen Charlotte	0.40	0.40	0.0	0.40	0.0	16.46
26 Squamish-Lillooet	0.51	0.0	0.0	0.0	0.0	7.66
27 Stikine	4.88	0.0	0.0	0.0	0.0	9.75
28 Sunshine Coast	0.0	0.0	0.0	0.0	0.0	13.38
29 Thompson-Nicola	0.0	0.85	0.09	0.0	0.19	20.13
<b>Metropolitan - Subtotal</b>	<b>0.59</b>	<b>0.53</b>	<b>0.03</b>	<b>0.09</b>	<b>0.17</b>	<b>15.72</b>
3 Capital	0.63	0.95	0.0	0.16	0.47	23.50
16 Greater Vancouver	0.58	0.45	0.04	0.08	0.11	14.06
<b>TOTAL</b>	<b>0.39</b>	<b>0.55</b>	<b>0.03</b>	<b>0.07</b>	<b>0.15</b>	<b>18.94</b>

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

<sup>2</sup> Includes 17 LPNs who did not provide this information (see Table 3).

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Table 5

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Field of Practice by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Medical/ Surgical General</u>	<u>Medical/ Surgical Specialties</u>	<u>Maternal/ Newborn</u>	<u>Psychiatric</u>	<u>Pediatric</u>	<u>Geriatric</u>
<b>Non-Metropolitan - Subtotal</b>	<b>796</b>	<b>89</b>	<b>113</b>	<b>34</b>	<b>118</b>	<b>636</b>
1 Alberni-Clayoquot	5	1	3	1	2	18
2 Bulkley-Nechako	15	1	3	0	0	6
4 Cariboo	29	7	8	0	2	15
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	70	4	14	3	2	30
7 Central Kootenay	43	1	0	0	4	37
8 Central Okanagan	58	8	10	5	7	57
9 Columbia-Shuswap	13	1	0	2	1	13
10 Comox-Strathcona	55	4	0	0	6	59
11 Cowichan Valley	22	4	6	1	9	83
12 Dewdney-Alouette	43	3	6	10	4	34
13 East Kootenay	27	3	1	1	2	29
14 Fraser-Cheam	34	2	3	2	6	11
15 Fraser-Fort George	41	5	11	1	13	9
17 Kitimat-Stikine	20	6	9	1	5	1
18 Kootenay Boundary	29	2	1	0	5	38
19 Mount Waddington	4	0	0	0	0	0
20 Nanaimo	60	3	9	0	9	48
21 North Okanagan	21	1	1	3	13	43
22 Okanagan-Similkameen	50	7	7	0	2	40
23 Peace River-Liard	29	9	4	0	3	19
24 Powell River	21	0	1	0	0	18
25 Skeena-Queen Charlotte	10	3	2	1	6	3
26 Squamish-Lillooet	3	0	0	0	0	1
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	7	0	0	0	0	4
29 Thompson-Nicola	87	14	14	3	17	20
<b>Metropolitan - Subtotal</b>	<b>772</b>	<b>203</b>	<b>100</b>	<b>42</b>	<b>117</b>	<b>502</b>
3 Capital	154	56	17	18	20	211
16 Greater Vancouver	618	147	83	24	97	291
<b>TOTAL</b>	<b>1,568</b>	<b>292</b>	<b>213</b>	<b>76</b>	<b>235</b>	<b>1,138</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**

**by Field of Practice by Regional Hospital District**

**September 1983**

<u>Regional Hospital District</u>	<u>Generalized Practice</u>	<u>Teaching, Administration &amp; Research<sup>2</sup></u>	<u>Other</u>	<u>Not Answered</u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>426</b>	<b>16</b>	<b>82</b>	<b>198</b>	<b>2,508</b>
1 Alberni-Clayoquot	17	1	2	8	58
2 Bulkley-Nechako	23	1	5	5	59
4 Cariboo	18	0	2	6	87
5 Central Coast	2	0	0	0	2
6 Central Fraser Valley	15	1	5	7	151
7 Central Kootenay	30	2	5	16	138
8 Central Okanagan	7	4	5	19	180
9 Columbia-Shuswap	15	0	1	4	50
10 Comox-Strathcona	20	0	5	8	157
11 Cowichan Valley	20	1	7	15	168
12 Dewdney-Alouette	19	1	5	11	136
13 East Kootenay	26	1	5	14	109
14 Fraser-Cheam	18	0	2	7	85
15 Fraser-Fort George	17	2	4	10	113
17 Kitimat-Stikine	12	0	3	4	61
18 Kootenay Boundary	14	0	0	10	99
19 Mount Waddington	4	0	1	1	10
20 Nanaimo	27	0	5	14	175
21 North Okanagan	19	0	2	5	108
22 Okanagan-Similkameen	17	0	4	10	137
23 Peace River-Liard	20	0	0	5	89
24 Powell River	4	1	0	0	45
25 Skeena-Queen Charlotte	12	0	1	3	41
26 Squamish-Lillooet	8	0	2	1	15
27 Stikine	1	0	0	1	2
28 Sunshine Coast	7	0	0	3	21
29 Thompson-Nicola	34	1	11	11	212
<b>Metropolitan - Subtotal</b>	<b>207</b>	<b>16</b>	<b>117</b>	<b>193</b>	<b>2,269</b>
3 Capital	27	5	39	48	595
16 Greater Vancouver	180	11	78	145	1,674
<b>TOTAL</b>	<b>633</b>	<b>32</b>	<b>199</b>	<b>391</b>	<b>4,777</b>

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

<sup>2</sup> There are 13 LPNs involved in teaching, 18 in administration and 1 in research.

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The University of British Columbia

**Table 6**                      **Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Field of Practice by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Medical/ Surgical General</u>	<u>Medical/ Surgical Specialties</u>	<u>Maternal/ Newborn</u>	<u>Psychiatric</u>	<u>Pediatric</u>	<u>Geriatric</u>
<b>Non-Metropolitan - Subtotal</b>	<b>5.78</b>	<b>0.65</b>	<b>0.82</b>	<b>0.25</b>	<b>0.86</b>	<b>4.62</b>
1 Alberni-Clayoquot	1.51	0.30	0.91	0.30	0.61	5.45
2 Bulkley-Nechako	3.74	0.25	0.75	0.0	0.0	1.50
4 Cariboo	4.69	1.13	1.29	0.0	0.32	2.43
5 Central Coast	0.0	0.0	0.0	0.0	0.0	0.0
6 Central Fraser Valley	5.73	0.33	1.15	0.25	0.16	2.45
7 Central Kootenay	8.11	0.19	0.0	0.0	0.75	6.98
8 Central Okanagan	6.55	0.90	1.13	0.57	0.79	6.44
9 Columbia-Shuswap	3.11	0.24	0.0	0.48	0.24	3.11
10 Comox-Strathcona	7.66	0.56	0.0	0.0	0.84	8.22
11 Cowichan Valley	4.04	0.73	1.10	0.18	1.65	15.23
12 Dewdney-Alouette	6.73	0.47	0.94	1.56	0.63	5.32
13 East Kootenay	4.83	0.54	0.18	0.18	0.36	5.19
14 Fraser-Cheam	5.84	0.34	0.51	0.34	1.03	1.89
15 Fraser-Fort George	4.40	0.54	1.18	0.11	1.39	0.97
17 Kitimat-Stikine	4.52	1.36	2.04	0.23	1.13	0.23
18 Kootenay Boundary	8.68	0.60	0.30	0.0	1.50	11.37
19 Mount Waddington	2.58	0.0	0.0	0.0	0.0	0.0
20 Nanaimo	7.45	0.37	1.12	0.0	1.12	5.96
21 North Okanagan	3.72	0.18	0.18	0.53	2.30	7.61
22 Okanagan-Similkameen	8.50	1.19	1.19	0.0	0.34	6.80
23 Peace River-Liard	4.90	1.52	0.68	0.0	0.51	3.21
24 Powell River	10.76	0.0	0.51	0.0	0.0	9.22
25 Skeena-Queen Charlotte	4.01	1.20	0.80	0.40	2.41	1.20
26 Squamish-Lillooet	1.53	0.0	0.0	0.0	0.0	0.51
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0
28 Sunshine Coast	4.46	0.0	0.0	0.0	0.0	2.55
29 Thompson-Nicola	8.26	1.33	1.33	0.28	1.61	1.90
<b>Metropolitan - Subtotal</b>	<b>5.35</b>	<b>1.41</b>	<b>0.69</b>	<b>0.29</b>	<b>0.81</b>	<b>3.48</b>
3 Capital	6.08	2.21	0.67	0.71	0.79	8.33
16 Greater Vancouver	5.19	1.23	0.70	0.20	0.81	2.44
<b>TOTAL</b>	<b>5.56</b>	<b>1.04</b>	<b>0.76</b>	<b>0.27</b>	<b>0.83</b>	<b>4.04</b>

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

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... continued

**Table 6** **Licensed Practical Nurses' Employed in Nursing in British Columbia**  
**(Continued)**  
**per 10,000 Population by Field of Practice by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Generalized Practice</u>	<u>Teaching, Administration &amp; Research<sup>2</sup></u>	<u>Other</u>	<u>Not Answered</u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>3.09</b>	<b>0.12</b>	<b>0.60</b>	<b>1.44</b>	<b>18.22</b>
1 Alberni-Clayoquot	5.15	0.30	0.61	2.42	17.56
2 Bulkley-Nechako	5.74	0.25	1.25	1.25	14.72
4 Cariboo	2.91	0.0	0.32	0.97	14.08
5 Central Coast	6.36	0.0	0.0	0.0	6.36
6 Central Fraser Valley	1.23	0.08	0.41	0.57	12.35
7 Central Kootenay	5.66	0.38	0.94	3.02	26.03
8 Central Okanagan	0.79	0.45	0.57	2.15	20.34
9 Columbia-Shuswap	3.59	0.0	0.24	0.96	11.97
10 Comox-Strathcona	2.78	0.0	0.70	1.11	21.86
11 Cowichan Valley	3.67	0.18	1.28	2.75	30.83
12 Dewdney-Alouette	2.97	0.16	0.78	1.72	21.27
13 East Kootenay	4.65	0.18	0.90	2.51	19.51
14 Fraser-Cheam	3.09	0.0	0.34	1.20	14.59
15 Fraser-Fort George	1.82	0.21	0.43	1.07	12.12
17 Kitimat-Stikine	2.71	0.0	0.68	0.90	13.80
18 Kootenay Boundary	4.19	0.0	0.0	2.99	29.61
19 Mount Waddington	2.58	0.0	0.64	0.64	6.44
20 Nanaimo	3.35	0.0	0.62	1.74	21.72
21 North Okanagan	3.36	0.0	0.35	0.88	19.11
22 Okanagan-Similkameen	2.89	0.0	0.68	1.70	23.30
23 Peace River-Liard	3.38	0.0	0.0	0.84	15.04
24 Powell River	2.05	0.51	0.0	0.0	23.05
25 Skeena-Queen Charlotte	4.82	0.0	0.40	1.20	16.46
26 Squamish-Lillooet	4.08	0.0	1.02	0.51	7.66
27 Stikine	4.88	0.0	0.0	4.88	9.75
28 Sunshine Coast	4.46	0.0	0.0	1.91	13.38
29 Thompson-Nicola	3.23	0.09	1.04	1.04	20.13
<b>Metropolitan - Subtotal</b>	<b>1.43</b>	<b>0.11</b>	<b>0.81</b>	<b>1.34</b>	<b>15.72</b>
3 Capital	1.07	0.20	1.54	1.90	23.50
16 Greater Vancouver	1.51	0.09	0.66	1.22	14.06
<b>TOTAL</b>	<b>2.24</b>	<b>0.11</b>	<b>0.71</b>	<b>1.39</b>	<b>16.84</b>

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

<sup>2</sup> There are 13 LPNs involved in teaching, 18 in administration and 1 in research (see Table 5).

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Table 7

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Job Title by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>		LPN	Geriatric Aide	Unit Clerk	Other	Not Answered	Total
<b>Non-Metropolitan - Subtotal</b>		<b>2,010</b>	<b>115</b>	<b>50</b>	<b>168</b>	<b>165</b>	<b>2,508</b>
1	Alberni-Clayoquot	40	4	0	7	7	58
2	Bulkley-Nechako	48	3	1	3	4	59
4	Cariboo	79	0	2	1	5	87
5	Central Coast	1	0	0	1	0	2
6	Central Fraser Valley	124	7	5	8	7	151
7	Central Kootenay	116	1	1	7	13	138
8	Central Okanagan	143	0	2	17	18	180
9	Columbia-Shuswap	45	0	1	2	2	50
10	Comox-Strathcona	118	20	1	13	5	157
11	Cowichan Valley	141	4	2	10	11	168
12	Dewdney-Alouette	112	6	1	11	6	136
13	East Kootenay	73	12	2	12	10	109
14	Fraser-Cheam	68	3	3	5	6	85
15	Fraser-Fort George	80	6	7	7	13	113
17	Kitimat-Stikine	56	0	1	1	3	61
18	Kootenay Boundary	80	4	3	2	10	99
19	Mount Waddington	7	0	0	2	1	10
20	Nanaimo	119	25	4	17	10	175
21	North Okanagan	86	5	1	8	8	108
22	Okanagan-Similkameen	124	3	0	6	4	137
23	Peace River-Liard	74	2	2	4	7	89
24	Powell River	43	0	0	2	0	45
25	Skeena-Queen Charlotte	38	0	0	2	1	41
26	Squamish-Lillooet	12	0	0	1	2	15
27	Stikine	1	0	0	0	1	2
28	Sunshine Coast	16	0	1	2	2	21
29	Thompson-Nicola	166	10	10	17	9	212
<b>Metropolitan - Subtotal</b>		<b>1,830</b>	<b>81</b>	<b>51</b>	<b>151</b>	<b>146</b>	<b>2,269</b>
3	Capital	497	32	3	28	35	595
16	Greater Vancouver	1,333	49	48	133	111	1,674
<b>TOTAL</b>		<b>3,840</b>	<b>196</b>	<b>101</b>	<b>329</b>	<b>311</b>	<b>4,777</b>

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

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Table 8

**Licensed Practical Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Job Title by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>		LPN	Geriatric Aide	Unit Clerk	Other	Not Answered	Total
<b>Non-Metropolitan - Subtotal</b>		<b>14.60</b>	<b>0.84</b>	<b>0.36</b>	<b>1.22</b>	<b>1.20</b>	<b>18.22</b>
1	Alberni-Clayoquot	12.11	1.21	0.0	2.12	2.12	17.56
2	Bulkley-Nechako	11.98	0.75	0.25	0.75	1.00	14.72
4	Cariboo	12.78	0.0	0.32	0.16	0.81	14.08
5	Central Coast	3.18	0.0	0.0	3.18	0.0	6.36
6	Central Fraser Valley	10.14	0.57	0.41	0.65	0.57	12.35
7	Central Kootenay	21.88	0.19	0.19	1.32	2.45	26.03
8	Central Okanagan	16.16	0.0	0.23	1.92	2.03	20.34
9	Columbia-Shuswap	10.78	0.0	0.24	0.48	0.48	11.97
10	Comox-Strathcona	16.43	2.78	0.14	1.81	0.70	21.86
11	Cowichan Valley	25.88	0.73	0.37	1.84	2.02	30.83
12	Dewdney-Alouette	17.52	0.94	0.16	1.72	0.94	21.27
13	East Kootenay	13.07	2.15	0.36	2.15	1.79	19.51
14	Fraser-Cheam	11.67	0.51	0.51	0.86	1.03	14.59
15	Fraser-Fort George	8.58	0.64	0.75	0.75	1.39	12.12
17	Kitimat-Stikine	12.67	0.0	0.23	0.23	0.68	13.80
18	Kootenay Boundary	23.93	1.20	0.90	0.60	2.99	29.61
19	Mount Waddington	4.51	0.0	0.0	1.29	0.64	6.44
20	Nanaimo	14.77	3.10	0.50	2.11	1.24	21.72
21	North Okanagan	15.22	0.88	0.18	1.42	1.42	19.11
22	Okanagan-Similkameen	21.09	0.51	0.0	1.02	0.68	23.30
23	Peace River-Liard	12.50	0.34	0.34	0.68	1.18	15.04
24	Powell River	22.03	0.0	0.0	1.02	0.0	23.05
25	Skeena-Queen Charlotte	15.25	0.0	0.0	0.80	0.40	16.46
26	Squamish-Lillooet	6.13	0.0	0.0	0.51	1.02	7.66
27	Stikine	4.88	0.0	0.0	0.0	4.88	9.75
28	Sunshine Coast	10.20	0.0	0.64	1.27	1.27	13.38
29	Thompson-Nicola	15.77	0.95	0.95	1.61	0.85	20.13
<b>Metropolitan - Subtotal</b>		<b>12.68</b>	<b>0.56</b>	<b>0.35</b>	<b>1.12</b>	<b>1.01</b>	<b>15.72</b>
3	Capital	19.63	1.26	0.12	1.11	1.38	23.50
16	Greater Vancouver	11.20	0.41	0.40	1.12	0.93	14.06
<b>TOTAL</b>		<b>13.62</b>	<b>0.70</b>	<b>0.36</b>	<b>1.17</b>	<b>1.10</b>	<b>16.94</b>

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

Prepared by:  
 Health Manpower Research 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>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** Canadian Society of Laboratory Technologists(CSLT).<sup>2</sup>

**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 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.

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the Canadian Society of Laboratory Technologists is voluntary. The CSLT administers the certification examination program.



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

Tables 1, 2 and 3 show membership status for members who reported a B.C. address at the date of record. Membership status is categorized as follows:

- (a) Certified (Active)
- (b) Certified (Inactive)
- (c) Associate (Non-certified)
- (d) Trainee
- (e) Certified Laboratory Assistant<sup>3</sup>

**2. Level of Training**

Tables 4, 5 and 6 show level of training for Certified (Active) members who were B.C. residents at the date of record. Level of training is categorized as follows:

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

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<sup>3</sup>No members with this classification were located in B.C.

*Certified (Active) Medical  
Laboratory Technologists  
per 10,000 Population  
by Regional Hospital District  
September 1983*

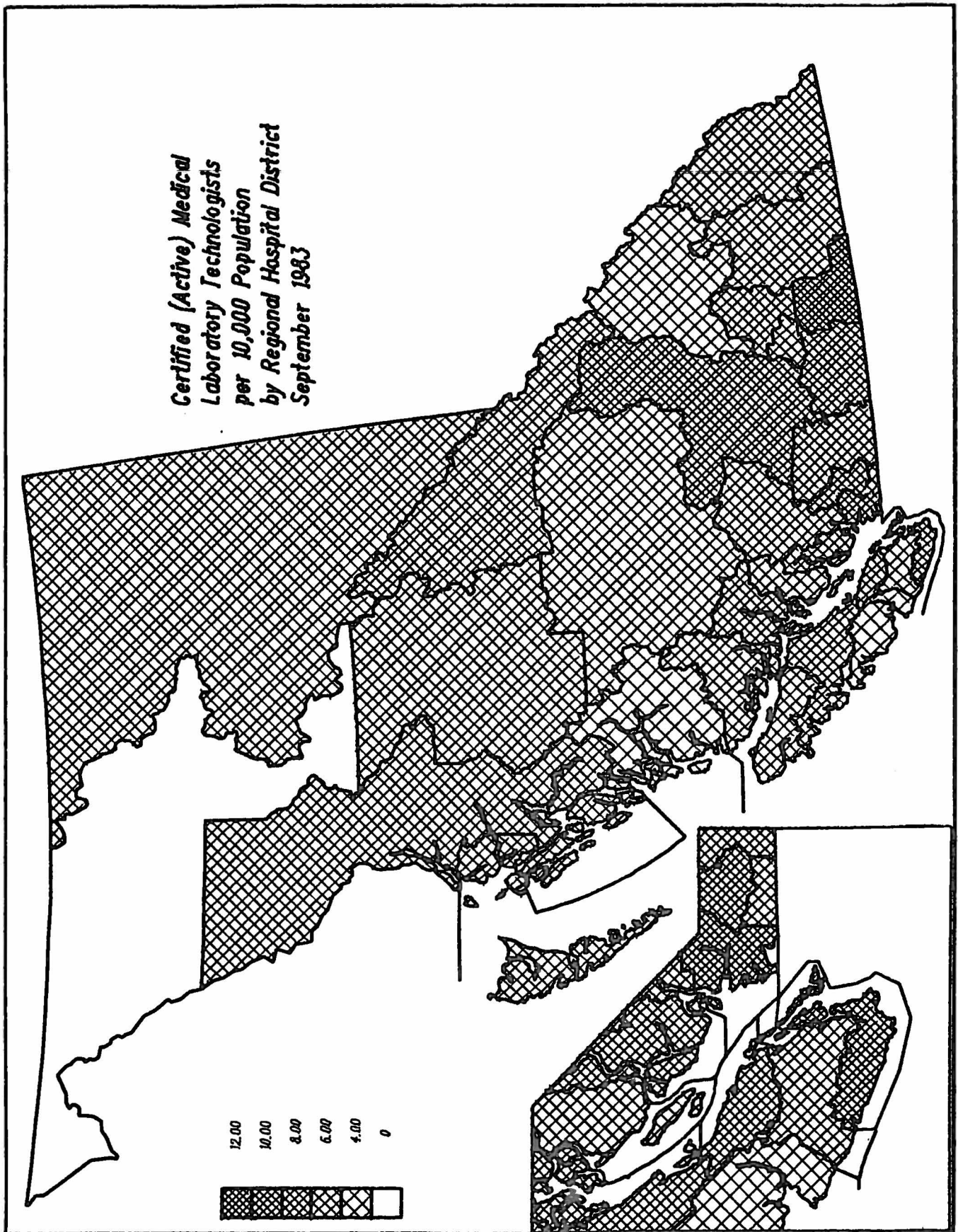


Table 1

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

by Membership Status by Regional Hospital District

September 1981 and September 1983

Regional Hospital District	Certified (Active)		Certified (Inactive)		Associate (Non-Certified)		Trainee		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>754</b>	<b>847</b>	<b>182</b>	<b>158</b>	<b>16</b>	<b>15</b>	<b>18</b>	<b>21</b>	<b>970</b>	<b>1,041</b>
1 Alberni-Clayoquot	11	11	7	4	0	0	0	0	18	15
2 Bulkley-Nechako	18	21	4	3	2	1	2	1	26	26
4 Cariboo	25	28	6	3	0	0	0	0	31	31
5 Central Coast	1	1	0	0	0	0	0	0	1	1
6 Central Fraser Valley	64	68	9	10	0	2	0	0	73	80
7 Central Kootenay	23	29	5	7	1	0	1	1	30	37
8 Central Okanagan	46	50	9	9	0	0	2	1	57	60
9 Columbia-Shuswap	15	16	8	5	0	0	0	0	23	21
10 Comox-Strathcona	43	45	14	12	1	1	0	0	58	58
11 Cowichan Valley	25	27	4	4	0	0	0	1	29	32
12 Dewdney-Alouette	38	53	13	8	1	1	0	1	52	63
13 East Kootenay	24	30	11	6	1	0	0	0	36	36
14 Fraser-Cheam	30	37	7	2	0	1	0	0	37	40
15 Fraser-Fort George	46	58	15	12	0	0	0	1	61	71
17 Kitimat-Stikine	24	24	4	5	0	1	0	0	28	30
18 Kootenay Boundary	35	39	5	3	4	2	0	0	44	44
19 Mount Waddington	4	8	1	1	1	0	0	0	6	9
20 Nanaimo	57	55	9	14	1	1	0	0	67	70
21 North Okanagan	31	36	12	9	0	0	0	0	43	45
22 Okanagan-Similkameen	42	48	6	7	0	0	0	1	48	56
23 Peace River-Liard	33	31	5	5	1	1	0	0	39	37
24 Powell River	11	9	2	6	0	0	0	0	13	15
25 Skeena-Queen Charlotte	9	13	5	5	2	3	0	0	16	21
26 Squamish-Lillooet	11	11	0	0	0	0	0	0	11	11
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	10	10	3	2	0	0	0	0	13	12
29 Thompson-Nicola	78	89	18	16	1	1	13	14	110	120
<b>Metropolitan - Subtotal</b>	<b>1,199</b>	<b>1,295</b>	<b>174</b>	<b>186</b>	<b>76</b>	<b>49</b>	<b>27</b>	<b>47</b>	<b>1,476</b>	<b>1,577</b>
3 Capital	206	215	31	38	8	7	0	2	245	262
16 Greater Vancouver	993	1,080	143	148	68	42	27	45	1,231	1,315
<b>TOTAL</b>	<b>1,953</b>	<b>2,142</b>	<b>356</b>	<b>344</b>	<b>92</b>	<b>64</b>	<b>45</b>	<b>68</b>	<b>2,446</b>	<b>2,618</b>

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

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

Table 2

**Medical Laboratory Technologists (Members)<sup>1</sup> in British Columbia**  
**per 10,000 Population by Membership Status by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Certified (Active)		Certified (Inactive)		Associate (Non-Certified)		Trainee		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>5.69</b>	<b>6.15</b>	<b>1.37</b>	<b>1.15</b>	<b>0.12</b>	<b>0.11</b>	<b>0.14</b>	<b>0.15</b>	<b>7.32</b>	<b>7.56</b>
1 Alberni-Clayoquot	3.38	3.33	2.15	1.21	0.0	0.0	0.0	0.0	5.53	4.54
2 Bulkley-Nechako	4.70	5.24	1.04	0.75	0.52	0.25	0.52	0.25	6.79	6.49
4 Cariboo	4.22	4.53	1.01	0.49	0.0	0.0	0.0	0.0	5.23	5.02
5 Central Coast	3.28	3.18	0.0	0.0	0.0	0.0	0.0	0.0	3.28	3.18
6 Central Fraser Valley	5.56	5.56	0.78	0.82	0.0	0.16	0.0	0.0	6.35	6.55
7 Central Kootenay	4.42	5.47	0.96	1.32	0.19	0.0	0.19	0.19	5.76	6.98
8 Central Okanagan	5.40	5.65	1.06	1.02	0.0	0.0	0.23	0.11	6.69	6.78
9 Columbia-Shuswap	3.74	3.83	1.99	1.20	0.0	0.0	0.0	0.0	5.73	5.03
10 Comox-Strathcona	6.27	6.27	2.04	1.67	0.15	0.14	0.0	0.0	8.45	8.08
11 Cowichan Valley	4.74	4.96	0.76	0.73	0.0	0.0	0.0	0.18	5.50	5.87
12 Dewdney-Alouette	6.13	8.29	2.10	1.25	0.16	0.16	0.0	0.16	8.39	9.86
13 East Kootenay	4.47	5.37	2.05	1.07	0.19	0.0	0.0	0.0	6.70	6.44
14 Fraser-Cheam	5.27	6.35	1.23	0.34	0.0	0.17	0.0	0.0	6.50	6.87
15 Fraser-Fort George	5.14	6.22	1.68	1.29	0.0	0.0	0.0	0.11	6.82	7.62
17 Kitimat-Stikine	5.66	5.43	0.94	1.13	0.0	0.23	0.0	0.0	6.60	6.78
18 Kootenay Boundary	10.53	11.67	1.50	0.90	1.20	0.60	0.0	0.0	13.24	13.16
19 Mount Waddington	2.73	5.15	0.68	0.64	0.68	0.0	0.0	0.0	4.09	5.80
20 Nanaimo	7.39	6.83	1.17	1.74	0.13	0.12	0.0	0.0	8.69	8.69
21 North Okanagan	5.70	6.37	2.21	1.59	0.0	0.0	0.0	0.0	7.91	7.96
22 Okanagan-Similkameen	7.34	8.16	1.05	1.19	0.0	0.0	0.0	0.17	8.39	9.52
23 Peace River-Liard	5.95	5.24	0.90	0.84	0.18	0.17	0.0	0.0	7.03	6.25
24 Powell River	5.68	4.61	1.03	3.07	0.0	0.0	0.0	0.0	6.71	7.68
25 Skeena-Queen Charlotte	3.75	5.22	2.08	2.01	0.83	1.20	0.0	0.0	6.66	8.43
26 Squamish-Lillooet	5.81	5.62	0.0	0.0	0.0	0.0	0.0	0.0	5.81	5.62
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Sunshine Coast	6.45	6.37	1.94	1.27	0.0	0.0	0.0	0.0	8.39	7.65
29 Thompson-Nicola	7.65	8.45	1.76	1.52	0.10	0.09	1.27	1.33	10.79	11.40
<b>Metropolitan - Subtotal</b>	<b>8.45</b>	<b>8.97</b>	<b>1.23</b>	<b>1.29</b>	<b>0.54</b>	<b>0.34</b>	<b>0.19</b>	<b>0.33</b>	<b>10.40</b>	<b>10.92</b>
3 Capital	8.26	8.49	1.24	1.50	0.32	0.28	0.0	0.08	9.82	10.35
16 Greater Vancouver	8.49	9.07	1.22	1.24	0.58	0.35	0.23	0.38	10.52	11.05
<b>TOTAL</b>	<b>7.12</b>	<b>7.60</b>	<b>1.30</b>	<b>1.22</b>	<b>0.34</b>	<b>0.23</b>	<b>0.16</b>	<b>0.24</b>	<b>8.91</b>	<b>9.28</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 3

Average Annual Rate of Change; Medical Laboratory Technologists (Members)<sup>1</sup>

in British Columbia by Membership Status by Regional Hospital District

September 1981 to September 1983

Regional Hospital District	Certified (Active)		Certified (Inactive)		Associate (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>5.99</b>	<b>4.00</b>	<b>-6.83</b>	<b>-8.58</b>	<b>-3.18</b>	<b>-5.00</b>	<b>8.01</b>	<b>5.98</b>	<b>3.60</b>	<b>1.65</b>
1 Alberni-Clayoquot	0.00	-0.72	*	*	*	*	*	*	-8.71	-9.37
2 Bulkley-Nechako	8.01	5.61	*	*	*	*	*	*	0.00	-2.22
4 Cariboo	5.83	3.62	*	*	*	*	*	*	0.00	-2.09
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	3.08	-0.01	*	*	*	*	*	*	4.68	1.55
7 Central Kootenay	12.29	11.25	*	*	*	*	*	*	11.06	10.03
8 Central Okanagan	4.26	2.33	*	*	*	*	*	*	2.60	0.70
9 Columbia-Shuswap	3.28	1.24	*	*	*	*	*	*	-4.45	-6.33
10 Comox-Strathcona	2.30	-0.00	-7.42	-9.50	*	*	*	*	0.00	-2.25
11 Cowichan Valley	3.92	2.21	*	*	*	*	*	*	5.05	3.31
12 Dewdney-Alouette	18.10	16.31	-21.55	-22.74	*	*	*	*	10.07	8.40
13 East Kootenay	11.80	9.64	-26.15	-27.57	*	*	*	*	0.00	-1.93
14 Fraser-Cheam	11.06	9.79	*	*	*	*	*	*	3.98	2.79
15 Fraser-Fort George	12.29	9.99	-10.56	-12.39	*	*	*	*	7.89	5.68
17 Kitimat-Stikine	0.00	-2.08	*	*	*	*	*	*	3.51	1.36
18 Kootenay Boundary	5.56	5.25	*	*	*	*	*	*	0.00	-0.30
19 Mount Waddington	*	*	*	*	*	*	*	*	*	*
20 Nanaimo	-1.77	-3.91	*	*	*	*	*	*	2.21	-0.01
21 North Okanagan	7.76	5.67	-13.40	-15.08	*	*	*	*	2.30	0.32
22 Okanagan-Similkameen	6.90	5.42	*	*	*	*	*	*	8.01	6.51
23 Peace River-Liard	-3.08	-6.17	*	*	*	*	*	*	-2.60	-5.71
24 Powell River	-9.55	-9.91	*	*	*	*	*	*	7.42	6.98
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*	14.56	12.50
26 Squamish-Lillooet	0.00	-1.69	*	*	*	*	*	*	0.00	-1.69
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	0.00	-0.60	*	*	*	*	*	*	-3.92	-4.50
29 Thompson-Nicola	6.82	5.13	-5.72	-7.21	*	*	3.77	2.13	4.45	2.79
<b>Metropolitan - Subtotal</b>	<b>3.93</b>	<b>3.05</b>	<b>3.39</b>	<b>2.52</b>	<b>-19.70</b>	<b>-20.38</b>	<b>31.94</b>	<b>30.82</b>	<b>3.36</b>	<b>2.49</b>
3 Capital	2.16	1.40	10.72	9.89	*	*	*	*	3.41	2.64
16 Greater Vancouver	4.29	3.39	1.73	0.85	-21.41	-22.09	29.10	27.98	3.36	2.46
<b>TOTAL</b>	<b>4.73</b>	<b>3.32</b>	<b>-1.70</b>	<b>-3.02</b>	<b>-16.59</b>	<b>-17.72</b>	<b>22.93</b>	<b>21.27</b>	<b>3.46</b>	<b>2.06</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 Manpower Research Unit

The University of British Columbia

Table 4

**Certified (Active) Medical Laboratory Technologists<sup>1</sup> in British Columbia**  
**by Level of Training by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	RT		ART		LCSLT		Total	
	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>696</b>	<b>782</b>	<b>55</b>	<b>63</b>	<b>3</b>	<b>2</b>	<b>754</b>	<b>847</b>
1 Alberni-Clayoquot	11	11	0	0	0	0	11	11
2 Bulkley-Nechako	17	20	1	1	0	0	18	21
4 Cariboo	25	28	0	0	0	0	25	28
5 Central Coast	1	1	0	0	0	0	1	1
6 Central Fraser Valley	62	65	2	3	0	0	64	68
7 Central Kootenay	19	25	4	4	0	0	23	29
8 Central Okanagan	43	47	3	3	0	0	46	50
9 Columbia-Shuswap	15	16	0	0	0	0	15	16
10 Comox-Strathcona	42	44	1	1	0	0	43	45
11 Cowichan Valley	22	24	3	3	0	0	25	27
12 Dewdney-Alouette	36	49	2	4	0	0	38	53
13 East Kootenay	23	29	1	1	0	0	24	30
14 Fraser-Cheam	27	34	3	3	0	0	30	37
15 Fraser-Fort George	41	54	4	4	1	0	46	58
17 Kitimat-Stikine	22	21	1	2	1	1	24	24
18 Kootenay Boundary	33	36	2	3	0	0	35	39
19 Mount Waddington	4	8	0	0	0	0	4	8
20 Nanaimo	52	49	5	6	0	0	57	55
21 North Okanagan	28	32	3	4	0	0	31	36
22 Okanagan-Similkameen	40	47	2	1	0	0	42	48
23 Peace River-Liard	31	30	2	1	0	0	33	31
24 Powell River	11	9	0	0	0	0	11	9
25 Skeena-Queen Charlotte	7	12	2	1	0	0	9	13
26 Squamish-Lillooet	10	10	1	1	0	0	11	11
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	9	9	1	1	0	0	10	10
29 Thompson-Nicola	65	72	12	16	1	1	78	89
<b>Metropolitan - Subtotal</b>	<b>1,070</b>	<b>1,161</b>	<b>118</b>	<b>126</b>	<b>11</b>	<b>8</b>	<b>1,199</b>	<b>1,295</b>
3 Capital	183	194	20	19	3	2	206	215
16 Greater Vancouver	887	967	98	107	8	6	993	1,080
<b>TOTAL</b>	<b>1,766</b>	<b>1,943</b>	<b>173</b>	<b>189</b>	<b>14</b>	<b>10</b>	<b>1,953</b>	<b>2,142</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 5

**Certified (Active) Medical Laboratory Technologists<sup>1</sup> in British Columbia  
per 10,000 Population by Level of Training by Regional Hospital District  
September 1981 and September 1983**

Regional Hospital District	RT		ART		LCSLT		Total	
	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>5.25</b>	<b>5.68</b>	<b>0.42</b>	<b>0.46</b>	<b>0.02</b>	<b>0.01</b>	<b>5.69</b>	<b>6.15</b>
1 Alberni-Clayoquot	3.38	3.33	0.0	0.0	0.0	0.0	3.38	3.33
2 Bulkley-Nechako	4.44	4.99	0.26	0.25	0.0	0.0	4.70	5.24
4 Cariboo	4.22	4.53	0.0	0.0	0.0	0.0	4.22	4.53
5 Central Coast	3.28	3.18	0.0	0.0	0.0	0.0	3.28	3.18
6 Central Fraser Valley	5.39	5.32	0.17	0.25	0.0	0.0	5.56	5.56
7 Central Kootenay	3.65	4.72	0.77	0.75	0.0	0.0	4.42	5.47
8 Central Okanagan	5.04	5.31	0.35	0.34	0.0	0.0	5.40	5.65
9 Columbia-Shuswap	3.74	3.83	0.0	0.0	0.0	0.0	3.74	3.83
10 Comox-Strathcona	6.12	6.13	0.15	0.14	0.0	0.0	6.27	6.27
11 Cowichan Valley	4.17	4.40	0.57	0.55	0.0	0.0	4.74	4.96
12 Dewdney-Alouette	5.81	7.67	0.32	0.63	0.0	0.0	6.13	8.29
13 East Kootenay	4.28	5.19	0.19	0.18	0.0	0.0	4.47	5.37
14 Fraser-Cheam	4.74	5.84	0.53	0.51	0.0	0.0	5.27	6.35
15 Fraser-Fort George	4.58	5.79	0.45	0.43	0.11	0.0	5.14	6.22
17 Kitimat-Stikine	5.19	4.75	0.24	0.45	0.24	0.23	5.66	5.43
18 Kootenay Boundary	9.93	10.77	0.60	0.90	0.0	0.0	10.53	11.67
19 Mount Waddington	2.73	5.15	0.0	0.0	0.0	0.0	2.73	5.15
20 Nanaimo	6.74	6.08	0.65	0.74	0.0	0.0	7.39	6.83
21 North Okanagan	5.15	5.66	0.55	0.71	0.0	0.0	5.70	6.37
22 Okanagan-Similkameen	6.99	7.99	0.35	0.17	0.0	0.0	7.34	8.16
23 Peace River-Liard	5.59	5.07	0.36	0.17	0.0	0.0	5.95	5.24
24 Powell River	5.68	4.61	0.0	0.0	0.0	0.0	5.68	4.61
25 Skeena-Queen Charlotte	2.91	4.82	0.83	0.40	0.0	0.0	3.75	5.22
26 Squamish-Lillooet	5.28	5.11	0.53	0.51	0.0	0.0	5.81	5.62
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Sunshine Coast	5.81	5.74	0.65	0.64	0.0	0.0	6.45	6.37
29 Thompson-Nicola	6.37	6.84	1.18	1.52	0.10	0.09	7.65	8.45
<b>Metropolitan - Subtotal</b>	<b>7.54</b>	<b>8.04</b>	<b>0.83</b>	<b>0.87</b>	<b>0.08</b>	<b>0.06</b>	<b>8.45</b>	<b>8.97</b>
3 Capital	7.34	7.66	0.80	0.75	0.12	0.08	8.26	8.49
16 Greater Vancouver	7.58	8.12	0.84	0.90	0.07	0.05	8.49	9.07
<b>TOTAL</b>	<b>6.43</b>	<b>6.89</b>	<b>0.63</b>	<b>0.67</b>	<b>0.05</b>	<b>0.04</b>	<b>7.12</b>	<b>7.60</b>

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

Prepared by:  
Health Manpower Research Unit  
The University of British Columbia



Table 6

Average Annual Rate of Change; Certified (Active) Medical Laboratory Technologists<sup>1</sup>

## in British Columbia by Level of Training by Regional Hospital District

September 1981 to September 1983

Regional Hospital District	RT		ART		LCSLT		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>6.00</b>	<b>4.01</b>	<b>7.03</b>	<b>5.01</b>	*	*	<b>5.99</b>	<b>4.00</b>
1 Alberni-Clayoquot	0.00	-0.72	*	*	*	*	0.00	-0.72
2 Bulkley-Nechako	8.47	6.06	*	*	*	*	8.01	5.61
4 Cariboo	5.83	3.62	*	*	*	*	5.83	3.62
5 Central Coast	*	*	*	*	*	*	*	*
6 Central Fraser Valley	2.39	-0.68	*	*	*	*	3.08	-0.01
7 Central Kootenay	14.71	13.65	*	*	*	*	12.29	11.25
8 Central Okanagan	4.55	2.61	*	*	*	*	4.26	2.33
9 Columbia-Shuswap	3.28	1.24	*	*	*	*	3.28	1.24
10 Comox-Strathcona	2.35	0.05	*	*	*	*	2.30	-0.00
11 Cowichan Valley	4.45	2.72	*	*	*	*	3.92	2.21
12 Dewdney-Alouette	16.67	14.90	*	*	*	*	18.10	16.31
13 East Kootenay	12.29	10.12	*	*	*	*	11.80	9.64
14 Fraser-Cheam	12.22	10.94	*	*	*	*	11.06	9.79
15 Fraser-Fort George	14.76	12.41	*	*	*	*	12.29	9.99
17 Kitimat-Stikine	-2.30	-4.33	*	*	*	*	0.00	-2.08
18 Kootenay Boundary	4.45	4.14	*	*	*	*	5.56	5.25
19 Mount Waddington	*	*	*	*	*	*	*	*
20 Nanaimo	-2.93	-5.04	*	*	*	*	-1.77	-3.91
21 North Okanagan	6.90	4.83	*	*	*	*	7.76	5.67
22 Okanagan-Similkameen	8.40	6.89	*	*	*	*	6.90	5.42
23 Peace River-Liard	-1.63	-4.77	*	*	*	*	-3.08	-6.17
24 Powell River	-9.55	-9.91	*	*	*	*	-9.55	-9.91
25 Skeena-Queen Charlotte	*	*	*	*	*	*	*	*
26 Squamish-Lillooet	0.00	-1.69	*	*	*	*	0.00	-1.69
27 Stikine	*	*	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*	0.00	-0.60
29 Thompson-Nicola	5.25	3.58	15.47	13.64	*	*	6.82	5.13
<b>Metropolitan - Subtotal</b>	<b>4.17</b>	<b>3.29</b>	<b>3.33</b>	<b>2.46</b>	<b>-14.72</b>	<b>-15.44</b>	<b>3.93</b>	<b>3.05</b>
3 Capital	2.96	2.20	-2.53	-3.26	*	*	2.16	1.40
16 Greater Vancouver	4.41	3.51	4.49	3.59	*	*	4.29	3.39
<b>TOTAL</b>	<b>4.89</b>	<b>3.48</b>	<b>4.52</b>	<b>3.11</b>	<b>-15.48</b>	<b>-16.62</b>	<b>4.73</b>	<b>3.32</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 Manpower Research Unit  
The University of British Columbia

**MEDICAL OFFICE ASSISTANTS**



## MEDICAL OFFICE ASSISTANTS

**Definition:** A medical office assistant:

May work as a medical assistant, a medical secretary, a clinical or hospital receptionist, or a hospital admitting officer. In most cases, the medical office assistant will have the duties of a receptionist, clinical assistant and a general office assistant.

**Date of Record:** October 1981 and September 1983.

**Source of Data:** The Medical Office Assistants' Association of British Columbia.<sup>1</sup>

**Preparation and Updating:**

The table, derived solely from the membership list supplied by the Medical Office Assistants' Association of British Columbia, includes members who reported a B.C. address at the date of record.

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<sup>1</sup>Compulsory registration and/or licensure do not exist. Membership in the Medical Office Assistants' Association of British Columbia is voluntary.

*Medical Office Assistants (Members)  
per 10,000 Population  
by Regional Hospital District  
September 1983*

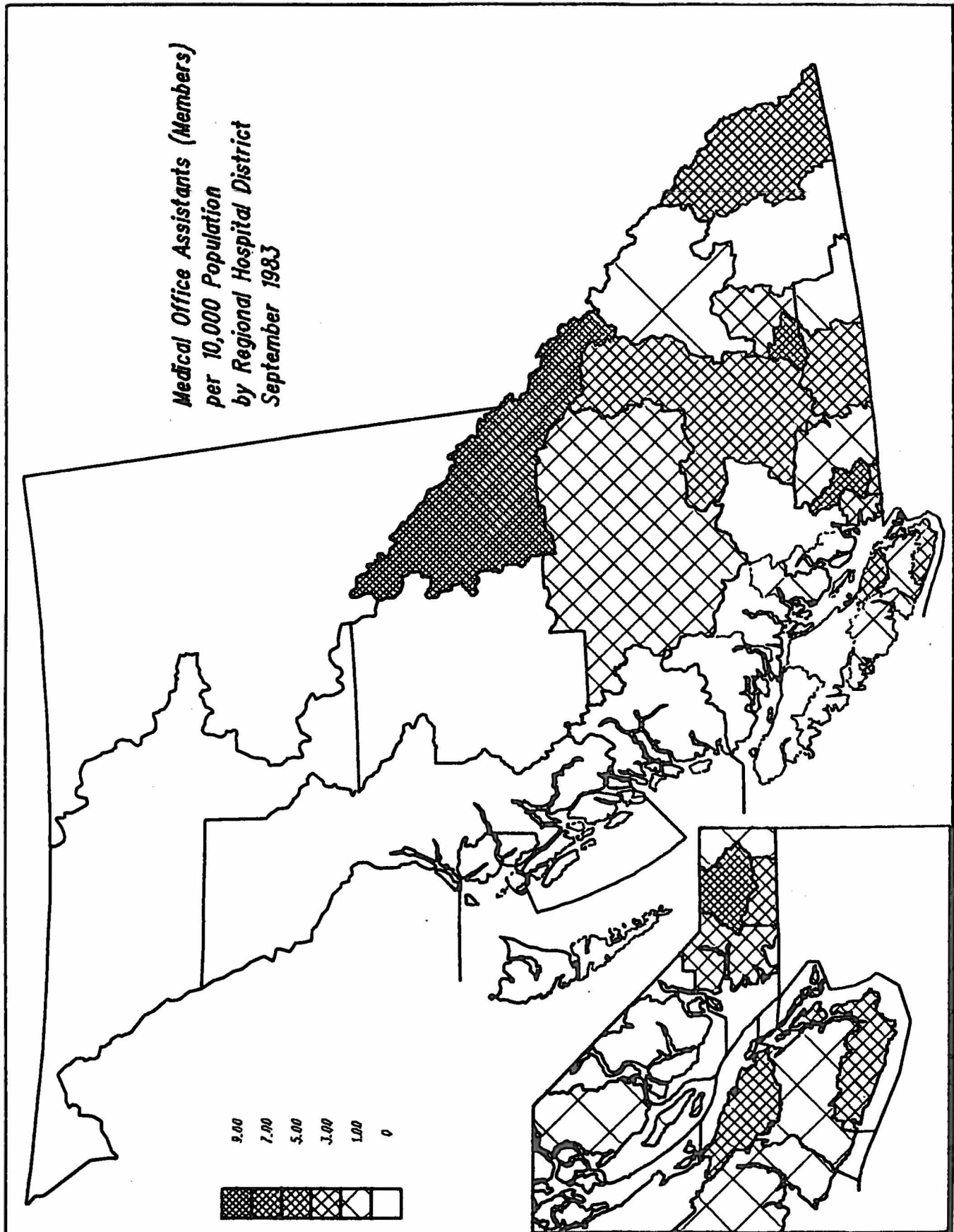


Table 1

**Medical Office Assistants (Members)<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**October 1981 and September 1983**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>309</b>	<b>338</b>	<b>2.33</b>	<b>2.46</b>	<b>4.79</b>	<b>2.74</b>
1 Alberni-Clayoquot	3	2	0.92	0.61	*	*
2 Bulkley-Nechako	1	0	0.26	0.0	*	*
4 Cariboo	2	8	0.34	1.29	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	24	33	2.09	2.70	18.07	14.39
7 Central Kootenay	4	0	0.77	0.0	*	*
8 Central Okanagan	45	60	5.28	6.78	16.19	13.95
9 Columbia-Shuswap	1	1	0.25	0.24	*	*
10 Comox-Strathcona	0	0	0.0	0.0	*	*
11 Cowichan Valley	1	3	0.19	0.55	*	*
12 Dewdney-Alouette	22	41	3.55	6.41	38.38	36.19
13 East Kootenay	20	22	3.72	3.94	5.10	2.98
14 Fraser-Cheam	4	4	0.70	0.69	*	*
15 Fraser-Fort George	75	83	8.39	8.90	5.43	3.18
17 Kitimat-Stikine	1	0	0.24	0.0	*	*
18 Kootenay Boundary	1	1	0.30	0.30	*	*
19 Mount Waddington	0	0	0.0	0.0	*	*
20 Nanaimo	33	26	4.28	3.23	-11.70	-13.70
21 North Okanagan	5	7	0.92	1.24	*	*
22 Okanagan-Similkameen	26	16	4.55	2.72	-22.38	-23.50
23 Peace River-Liard	0	0	0.0	0.0	*	*
24 Powell River	1	1	0.52	0.51	*	*
25 Skeena-Queen Charlotte	0	0	0.0	0.0	*	*
26 Squamish-Lillooet	0	0	0.0	0.0	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	2	0	9.29	0.0	*	*
29 Thompson-Nicola	38	30	3.73	2.85	-11.60	-13.06
<b>Metropolitan - Subtotal</b>	<b>260</b>	<b>296</b>	<b>1.83</b>	<b>2.05</b>	<b>7.00</b>	<b>6.06</b>
3 Capital	58	66	2.32	2.61	6.97	6.14
16 Greater Vancouver	202	230	1.73	1.93	7.01	6.04
<b>TOTAL</b>	<b>569</b>	<b>634</b>	<b>2.07</b>	<b>2.25</b>	<b>5.81</b>	<b>4.32</b>

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

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

<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 Manpower Research 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 pictures of body structures for diagnostic purposes:

Explains treatment and reassures patient. Prepares drugs and chemicals for radiologist. Positions patient according to part of body being X-rayed. 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. Assists radiologist in fluoroscopy, cine-fluoroscopy and other diagnostic procedures. 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. Observes patient through window or on closed-circuit television during treatment. Notifies radiation oncologist if medical problems arise. 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 surface application or insertion into body cavities."<sup>2</sup>

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<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3155-114, p. 61, Ottawa: Employment and Immigration Canada.

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

## (c) In nuclear medicine:

"Prepares radioactive solutions and reagents and operates scanning equipment for diagnostic purposes; Performs assays and quality-control tests on radioactive materials. Calculates doses to be administered by physician. Positions patient, and calibrates scanning equipment. Operates radiation-scanning equipment to produce photographic image of irradiated area. Calculates blood volume and red-cell survival, using geiger counter, electroscope, scaler, scintillation-and-position scanner, and scintogram. Monitors oscilloscope images and studies photographic images to determine if further scanning is required. Performs radioisotope scanning of pathological specimens and blood samples."<sup>3</sup>

Date of Record: November 1981 and November 1983.

Source of Data: British Columbia Association of Medical Radiation Technologists (BCAMRT), provincial division of the Canadian Association of Medical Radiation Technologists (CAMRT).<sup>4</sup>

## Preparation and Updating:

The tables, derived solely from the membership list supplied by the BCAMRT, include members who had a B.C. address at the date of record.

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<sup>3</sup>Ibid., No. 3155-110, p. 61.

<sup>4</sup>Compulsory registration and/or licensure do not exist. Membership in the CAMRT (through BCAMRT) is voluntary. However, CAMRT membership is restricted to those technologists who pass a registration examination administered by that body, or an equivalent examination.

**Definition of Terms:**

Medical radiation technologists are classified in Table 2 according to educational qualifications and specialty, as follows:

1. RT – Registered Technologist trained prior to 1958 in both diagnostic and therapeutic radiology.
2. Registered Technologist in single specialty
  - RTR – in diagnostic radiology
  - RTT – in radiotherapy
  - RTNM – in nuclear medicine
3. Registered Technologist in multiple specialties
  - RTR&T – in diagnostic radiology *and* radiotherapy.
  - RTR&NM – in diagnostic radiology *and* nuclear medicine.
  - RTT&NM – in radiotherapy *and* nuclear medicine.
  - RTR&T&NM – in diagnostic radiology *and* radiotherapy *and* nuclear medicine
4. Advanced Certification
  - AC(R) – in diagnostic radiology
  - AC(T) – in radiotherapy
  - AC(NM) – in nuclear medicine

*Medical Radiation  
Technologists (Members)  
per 10,000 Population  
by Regional Hospital District  
November 1983*

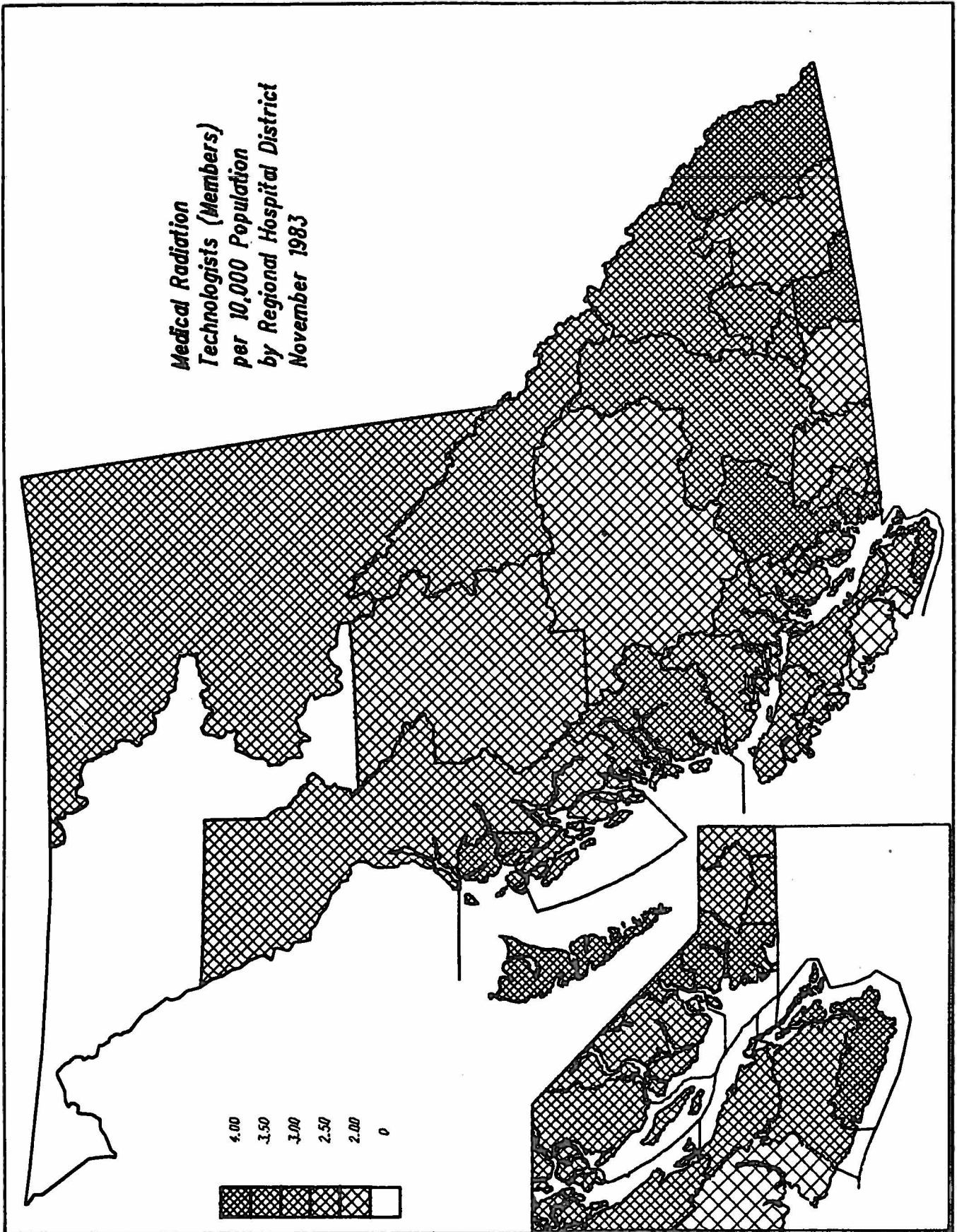


Table 1

**Medical Radiation Technologists (Members)<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**November 1981 and November 1983**

Regional Hospital District	Number		Number Per 10,000 Population		Annual Rate of Change	
	1981	1983	1981	1983	Number	Ratio <sup>2</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>352</b>	<b>362</b>	<b>2.66</b>	<b>2.63</b>	<b>1.41</b>	<b>-0.50</b>
1 Alberni-Clayoquot	7	4	2.15	1.21	*	*
2 Bulkley-Nechako	8	8	2.09	2.00	*	*
4 Cariboo	15	11	2.53	1.78	-14.37	-16.16
5 Central Coast	1	1	3.28	3.18	*	*
6 Central Fraser Valley	37	36	3.22	2.95	-1.36	-4.32
7 Central Kootenay	15	12	2.88	2.26	-10.56	-11.38
8 Central Okanagan	22	27	2.58	3.05	10.78	8.73
9 Columbia-Shuswap	12	12	2.99	2.87	0.0	-1.97
10 Comox-Strathcona	15	19	2.19	2.65	12.55	10.01
11 Cowichan Valley	9	14	1.71	2.57	*	*
12 Dewdney-Alouette	16	16	2.58	2.50	0.0	-1.51
13 East Kootenay	22	22	4.10	3.94	0.0	-1.93
14 Fraser-Cheam	11	13	1.93	2.23	8.71	7.47
15 Fraser-Fort George	25	23	2.80	2.47	-4.08	-6.05
17 Kitimat-Stikine	9	10	2.12	2.26	*	*
18 Kootenay Boundary	11	14	3.31	4.19	12.82	12.48
19 Mount Waddington	4	4	2.73	2.58	*	*
20 Nanaimo	18	20	2.33	2.48	5.41	3.11
21 North Okanagan	19	16	3.50	2.83	-8.23	-10.01
22 Okanagan-Similkameen	12	10	2.10	1.70	-8.71	-9.98
23 Peace River-Liard	18	14	3.25	2.37	-11.81	-14.62
24 Powell River	4	5	2.07	2.56	*	*
25 Skeena-Queen Charlotte	4	10	1.67	4.01	*	*
26 Squamish-Lillooet	9	8	4.75	4.08	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	5	4	3.23	2.55	*	*
29 Thompson-Nicola	24	29	2.35	2.75	9.92	8.18
<b>Metropolitan - Subtotal</b>	<b>573</b>	<b>556</b>	<b>4.04</b>	<b>3.85</b>	<b>-1.49</b>	<b>-2.33</b>
3 Capital	108	106	4.33	4.19	-0.93	-1.67
16 Greater Vancouver	465	450	3.97	3.78	-1.63	-2.48
<b>TOTAL</b>	<b>925</b>	<b>918</b>	<b>3.37</b>	<b>3.26</b>	<b>-0.38</b>	<b>-1.72</b>

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

<sup>2</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 2

**Medical Radiation Technologists (Members)<sup>1</sup> in British Columbia**  
**by Qualifications by Regional Hospital District**  
**November 1983**

Regional Hospital District	RTR&T/ RTT&NM/RTR&NM/ RTR&T&NM					Total
	RT		RTR/AC(R)	RTT/AC(T)	RTNM/AC(NM)	
<b>Non-Metropolitan - Subtotal</b>	<b>24</b>	<b>2</b>	<b>316</b>	<b>4</b>	<b>14</b>	<b>362</b>
1 Alberni-Clayoquot	0	0	4	0	0	4
2 Bulkley-Nechako	0	0	8	0	0	8
4 Cariboo	1	0	10	0	0	11
5 Central Coast	0	0	1	0	0	1
6 Central Fraser Valley	2	0	30	1	2	36 <sup>2</sup>
7 Central Kootenay	2	0	9	1	0	12
8 Central Okanagan	0	2	21	0	4	27
9 Columbia-Shuswap	1	0	11	0	0	12
10 Comox-Strathcona	2	0	16	0	0	19 <sup>2</sup>
11 Cowichan Valley	4	0	10	0	0	14
12 Dewdney-Alouette	0	0	15	0	1	16
13 East Kootenay	2	0	18	0	2	22
14 Fraser-Cheam	0	0	12	1	0	13
15 Fraser-Fort George	1	0	20	0	2	23
17 Kitimat-Stikine	0	0	10	0	0	10
18 Kootenay Boundary	0	0	13	0	1	14
19 Mount Waddington	1	0	3	0	0	4
20 Nanaimo	3	0	17	0	0	20
21 North Okanagan	1	0	14	1	0	16
22 Okanagan-Similkameen	1	0	9	0	0	10
23 Peace River-Liard	1	0	13	0	0	14
24 Powell River	0	0	5	0	0	5
25 Skeena-Queen Charlotte	0	0	10	0	0	10
26 Squamish-Lillooet	0	0	8	0	0	8
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	4	0	0	4
29 Thompson-Nicola	2	0	25	0	2	29
<b>Metropolitan - Subtotal</b>	<b>54</b>	<b>6</b>	<b>397</b>	<b>36</b>	<b>62</b>	<b>556</b>
3 Capital	10	3	75	5	13	106
16 Greater Vancouver	44	3	322	31	49	450 <sup>2</sup>
<b>TOTAL</b>	<b>78</b>	<b>8</b>	<b>713</b>	<b>40</b>	<b>76</b>	<b>918</b>

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

<sup>2</sup> One person with unknown qualification is included.

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## **NATUROPATHS**





## NATUROPATHS

Definitlon: A naturopath:

"Treats body disorders by a system based on natural laws governing the body:  
Examines, questions, and observes patient to diagnose disorder.  
Treats disorder, using water, light, heat, electrotherapy, massage, manipulation and psychology. Prescribes treatment and diet which includes natural foods and herbs, corrective exercises and other methods of nature."<sup>1</sup>

Date of Record: November 1983.

Source of Data: Association of Naturopathic Physicians of British Columbia.<sup>2</sup>

### Preparation and Updating:

The table, derived from the *Register* supplied by the Association of Naturopathic Physicians of British Columbia includes registered naturopaths who reported a B.C. address at the date of record. This group appears for the first time in *ROLLCALL 83*.

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

Major Group 31, No. 3119-114, p. 51, Ottawa: Employment and Immigration Canada.

<sup>2</sup>In order to practice as a Naturopathic Physician in British Columbia, it is necessary to be registered by the Association of Naturopathic Physicians of British Columbia.



**Table 1**                      **Naturopaths<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>		<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>		<b>11</b>	<b>0.08</b>
1	Alberni-Clayoquot	0	0.0
2	Bulkley-Nechako	0	0.0
4	Cariboo	1	0.16
5	Central Coast	0	0.0
6	Central Fraser Valley	4	0.33
7	Central Kootenay	0	0.0
8	Central Okanagan	1	0.11
9	Columbia-Shuswap	0	0.0
10	Comox-Strathcona	1	0.14
11	Cowichan Valley	0	0.0
12	Dewdney-Alouette	1	0.16
13	East Kootenay	0	0.0
14	Fraser-Cheam	0	0.0
15	Fraser-Fort George	0	0.0
17	Kitimat-Stikine	0	0.0
18	Kootenay Boundary	0	0.0
19	Mount Waddington	0	0.0
20	Nanaimo	1	0.12
21	North Okanagan	0	0.0
22	Okanagan-Similkameen	0	0.0
23	Peace River-Liard	0	0.0
24	Powell River	0	0.0
25	Skeena-Queen Charlotte	0	0.0
26	Squamish-Lillooet	0	0.0
27	Stikine	0	0.0
28	Sunshine Coast	0	0.0
29	Thompson-Nicola	2	0.19
<b>Metropolitan - Subtotal</b>		<b>12</b>	<b>0.08</b>
3	Capital	5	0.20
16	Greater Vancouver	7	0.06
<b>TOTAL</b>		<b>23</b>	<b>0.08</b>

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

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## 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."<sup>1</sup>

**Date of Record:** June 1983.

**Source of Data:** British Columbia Society of Occupational Therapists (BCSOT).<sup>2</sup>

**Preparation and Updating:**

In 1983, the BCSOT, with the cooperation of the Health Manpower Research Unit, undertook to create and maintain a dynamic computer-based file, *OTFILE*. For the first time, questionnaires were distributed to members of the BCSOT at the time of membership renewal and the returns were used to create *OTFILE*. The final response rate (December 1983) was 81.68%.

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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.

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the British Columbia Society of Occupational Therapists is voluntary.



Only respondents who had a B.C. mailing address and were members of the BCSOT at the date of record are included in the tables.

Comparisons with 1981 are not made because of the radical changes in the method of data collection.

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 83*.

#### Definition of Terms:

##### 1. Employment Status

Employment status was reported by respondents to the 1983 questionnaire. The categories used in Table 2 are:

- a) Employed in occupational therapy (OT)
- b) Employed in physiotherapy (PT)
- c) Employed in combined OT and PT
- d) Employed in fields other than OT or PT
- e) Not employed

##### 2. Type of Employing Institution

Type of principal employing institution was reported by respondents to the 1983 questionnaire. The categories used in Table 3 are:

- a) General Hospital
- b) Children's Hospital
- c) Rehabilitation Hospital/Centre
- d) Extended Care Hospital
- e) Long Term Care Facility
- f) Centre for the Retarded
- g) Psychiatric/Mental Hospital
- h) Workers' Compensation Board
- i) Diagnostic & Treatment Centre
- j) Voluntary Agency - Children
- k) Voluntary Agency - Adults
- l) Voluntary Agency - Children & Adults
- m) Health District
- n) Private Practice
- o) University/College
- p) Other

### 3. Area of Service

Principal area of service was reported by respondents to the 1983 questionnaire. The categories used in Table 4 are:

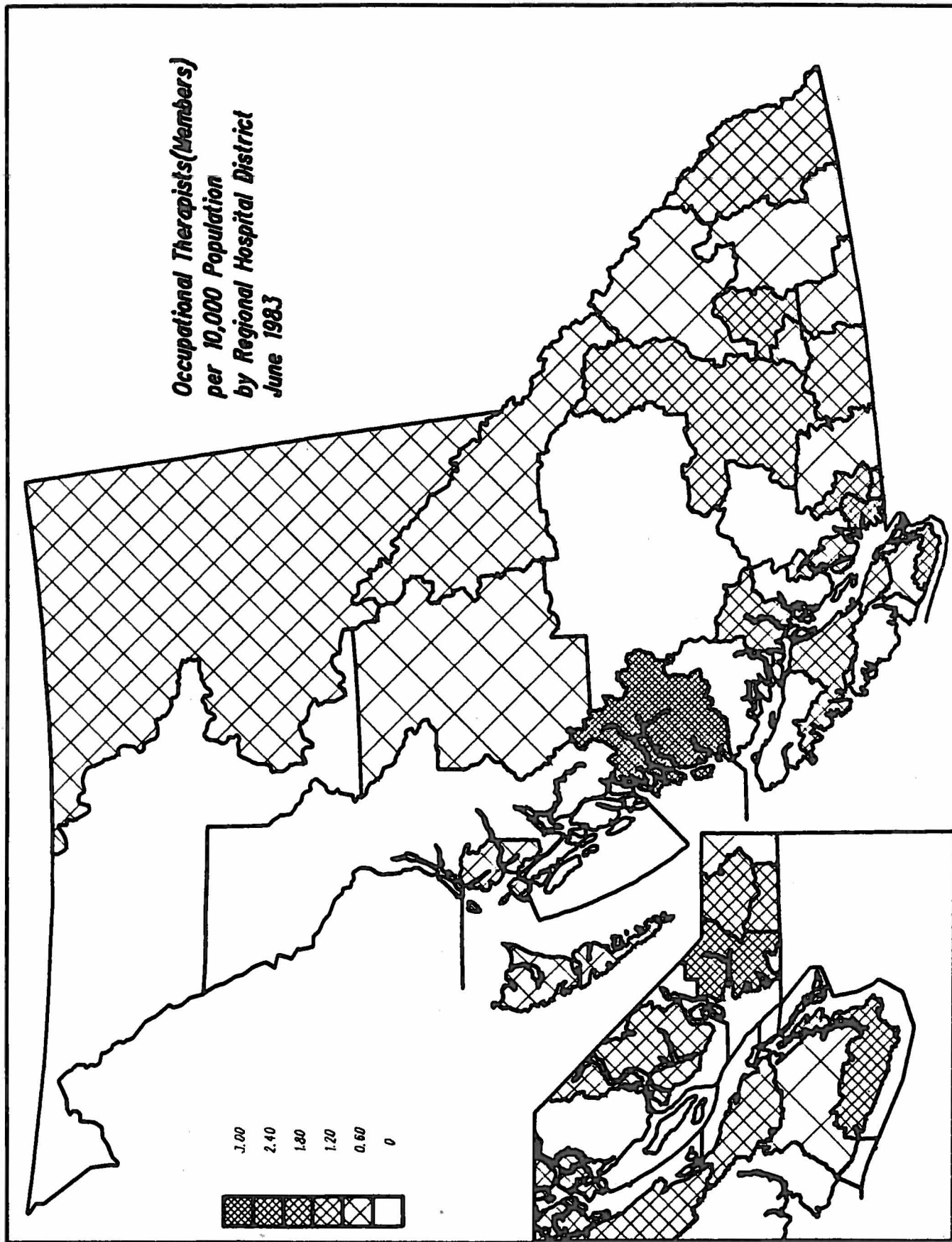
- a) Acute Care - In-patient
- b) Extended Care - In-patient
- c) Out-patient - General
- d) Psychiatry (In or Out-patient)
- e) Home Care Services
- f) Administration
- g) Rehabilitation (In or Out-patient)
- h) Research
- i) Teaching
- j) Administration and Patient Care
- k) Home Service and Other Patient Care
- l) Other

### 4. Type of Position

Principal type of position was reported by respondents to the 1983 questionnaire. The categories used in Table 5 are:

- a) Staff Therapist
- b) Senior Therapist
- c) Sole Charge
- d) Assistant Supervisor
- e) Supervisor
- f) Program Coordinator/Director
- g) Teacher/Professor/Lecturer
- h) Consultant
- i) Other

*Occupational Therapists(Members)  
per 10,000 Population  
by Regional Hospital District  
June 1983*



**Table 1 Occupational Therapists (Members)<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Number</u>	<u>Number per 10,000 Population</u>
<b>Non-Metropolitan - Subtotal</b>	<b>61</b>	<b>0.44</b>
1 Alberni-Clayoquot	0	0.0
2 Bulkley-Nechako	1	0.25
4 Cariboo	0	0.0
5 Central Coast	1	3.18
6 Central Fraser Valley	11	0.90
7 Central Kootenay	1	0.19
8 Central Okanagan	2	0.23
9 Columbia-Shuswap	1	0.24
10 Comox-Strathcona	5	0.70
11 Cowichan Valley	1	0.18
12 Qewdney-Alouette	6	0.94
13 East Kootenay	3	0.54
14 Fraser-Cheam	1	0.17
15 Fraser-Fort George	3	0.32
17 Kitimat-Stikine	0	0.0
18 Kootenay Boundary	1	0.30
19 Mount Waddington	0	0.0
20 Nanaimo	5	0.62
21 North Okanagan	5	0.88
22 Okanagan-Similkameen	3	0.51
23 Peace River-Liard	2	0.34
24 Powell River	0	0.0
25 Skeena-Queen Charlotte	1	0.40
26 Squamish-Lillooet	0	0.0
27 Stikine	0	0.0
28 Sunshine Coast	1	0.64
29 Thompson-Nicola	7	0.66
<b>Metropolitan - Subtotal</b>	<b>235</b>	<b>1.63</b>
3 Capital	30	1.18
16 Greater Vancouver	205	1.72
<b>TOTAL</b>	<b>296</b>	<b>1.05</b>

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

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Table 2

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

## by Employment Status by Regional Hospital District

June 1983

Regional Hospital District	Employed in OT	Employed in PT	Combined OT/PT	Employed Other	Not Employed	Not Applicable <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>38</b>	<b>1</b>	<b>9</b>	<b>3</b>	<b>10</b>	<b>0</b>	<b>61</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	1	0	1
4 Cariboo	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	1	0	1
6 Central Fraser Valley	10	0	1	0	0	0	11
7 Central Kootenay	1	0	0	0	0	0	1
8 Central Okanagan	1	0	0	0	1	0	2
9 Columbia-Shuswap	0	0	0	0	1	0	1
10 Comox-Strathcona	2	0	2	1	0	0	5
11 Cowichan Valley	1	0	0	0	0	0	1
12 Dewdney-Alouette	4	0	1	0	1	0	6
13 East Kootenay	0	0	1	0	2	0	3
14 Fraser-Cheam	1	0	0	0	0	0	1
15 Fraser-Fort George	3	0	0	0	0	0	3
17 Kitimat-Stikine	0	0	0	0	0	0	0
18 Kootenay Boundary	0	1	0	0	0	0	1
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	5	0	0	0	0	0	5
21 North Okanagan	3	0	2	0	0	0	5
22 Okanagan-Similkameen	2	0	0	0	1	0	3
23 Peace River-Liard	0	0	1	0	1	0	2
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	0	0	1	0	0	1
29 Thompson-Nicola	4	0	1	1	1	0	7
<b>Metropolitan - Subtotal</b>	<b>166</b>	<b>3</b>	<b>25</b>	<b>6</b>	<b>27</b>	<b>8</b>	<b>235</b>
3 Capital	22	1	5	0	2	0	30
16 Greater Vancouver	144	2	20	6	25	8	205
<b>TOTAL</b>	<b>204</b>	<b>4</b>	<b>34</b>	<b>9</b>	<b>37</b>	<b>8</b>	<b>296</b>

<sup>1</sup> Definitions are as in the attached text.<sup>2</sup> Includes 6 students and 2 non-responses to the question concerning employment status.

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Table 3

**Occupational Therapists (Members) in British Columbia**  
**by Type of Principal Employing Institution by Regional Hospital District**

June 1983

Regional Hospital District	Hospital				
	General	Children's	Rehab.	Extended & Long Term Care	Psych/Mental and Ctr. for Retarded
<b>Non-Metropolitan - Subtotal</b>	<b>33</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>2</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	8	0	1	0	0
7 Central Kootenay	0	0	0	0	0
8 Central Okanagan	1	0	0	0	0
9 Columbia-Shuswap	0	0	0	0	0
10 Comox-Strathcona	4	0	0	0	0
11 Cowichan Valley	0	0	1	0	0
12 Dewdney-Alouette	2	0	0	1	2
13 East Kootenay	0	0	0	0	0
14 Fraser-Cheam	1	0	0	0	0
15 Fraser-Fort George	2	0	0	0	0
17 Kitimat-Stikine	0	0	0	0	0
18 Kootenay Boundary	1	0	0	0	0
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	4	0	0	0	0
21 North Okanagan	3	0	0	1	0
22 Okanagan-Similkameen	1	0	0	0	0
23 Peace River-Liard	1	0	0	0	0
24 Powell River	0	0	0	0	0
25 Skeena-Queen Charlotte	1	0	0	0	0
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	4	0	0	1	0
<b>Metropolitan - Subtotal</b>	<b>80</b>	<b>12</b>	<b>38</b>	<b>16</b>	<b>13</b>
3 Capital	7	4	6	5	1
16 Greater Vancouver	73	8	32	11	12
<b>TOTAL</b>	<b>113</b>	<b>12</b>	<b>40</b>	<b>19</b>	<b>15</b>

1 Definitions are as in the attached text.

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... continued

**Table 3**  
(Continued)

**Occupational Therapists (Members)<sup>1</sup> in British Columbia**  
**by Type of Principal Employing Institution by Regional Hospital District**

June 1983

<u>Regional Hospital District</u>	<u>Diagnostic Treatment Centre</u>	<u>Voluntary Agency</u>	<u>Health District</u>	<u>Other<sup>2</sup></u>	<u>Not Applicable<sup>3</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>4</b>	<b>13</b>	<b>61</b>
1 Alberni-Clayoquot	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	1	1
4 Cariboo	0	0	0	0	0	0
5 Central Coast	0	0	0	0	1	1
6 Central Fraser Valley	1	1	0	0	0	11
7 Central Kootenay	0	0	0	1	0	1
8 Central Okanagan	0	0	0	0	1	2
9 Columbia-Shuswap	0	0	0	0	1	1
10 Comox-Strathcona	0	0	0	0	1	5
11 Cowichan Valley	0	0	0	0	0	1
12 Dewdney-Alouette	0	0	0	0	1	6
13 East Kootenay	0	0	1	0	2	3
14 Fraser-Cheam	0	0	0	0	0	1
15 Fraser-Fort George	0	0	0	1	0	3
17 Kitimat-Stikine	0	0	0	0	0	0
18 Kootenay Boundary	0	0	0	0	0	1
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	0	1	0	0	0	5
21 North Okanagan	0	0	0	1	0	5
22 Okanagan-Similkameen	0	0	0	1	1	3
23 Peace River-Liard	0	0	0	0	1	2
24 Powell River	0	0	0	0	0	0
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	0	0	0	0	1	1
29 Thompson-Nicola	0	0	0	0	2	7
<b>Metropolitan - Subtotal</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>24</b>	<b>41</b>	<b>235</b>
3 Capital	0	1	0	4	2	30
16 Greater Vancouver	4	2	4	20	39	205
<b>TOTAL</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>28</b>	<b>54</b>	<b>296</b>

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

<sup>2</sup> Includes 3 in private practice, 2 with the WCB, 9 with community agencies, 6 with universities or colleges and 8 with miscellaneous institutions.

<sup>3</sup> Includes non-responses to the question concerning principal employing institution.

Table 4

**Occupational Therapists (Members)<sup>1</sup> in British Columbia**  
**by Principal Area of Service by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Acute Care</u>	<u>Extended Care</u>	<u>Out- Patient</u>	<u>Psychiatry</u>	<u>Home Care Services</u>	<u>Adminis- tration</u>
<b>Non-Metropolitan - Subtotal</b>	<b>5</b>	<b>7</b>	<b>10</b>	<b>7</b>	<b>2</b>	<b>2</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	2	2	2	1	1
7 Central Kootenay	0	0	1	0	0	0
8 Central Okanagan	0	0	0	0	0	0
9 Columbia-Shuswap	0	0	0	0	0	0
10 Comox-Strathcona	1	1	1	1	0	0
11 Cowichan Valley	0	0	0	0	0	0
12 Dewdney-Alouette	0	1	0	1	0	0
13 East Kootenay	0	0	0	0	1	0
14 Fraser-Cheam	1	0	0	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	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	2	0	1	0	0	1
21 North Okanagan	0	2	1	0	0	0
22 Okanagan-Similkameen	0	0	0	1	0	0
23 Peace River-Liard	0	0	0	1	0	0
24 Powell River	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	0	1	0	0	0
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	1	1	1	1	0	0
<b>Metropolitan - Subtotal</b>	<b>30</b>	<b>23</b>	<b>8</b>	<b>31</b>	<b>6</b>	<b>21</b>
3 Capital	1	6	0	6	1	5
16 Greater Vancouver	29	17	8	25	5	16
<b>TOTAL</b>	<b>35</b>	<b>30</b>	<b>18</b>	<b>38</b>	<b>8</b>	<b>23</b>

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

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... continued



Table 4  
(Continued)

Occupational Therapists (Members)<sup>1</sup> in British Columbia  
by Principal Area of Service by Regional Hospital District  
June 1983

Regional Hospital District	Rehabilitation	Research and Teaching	Other	Not Applicable <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>7</b>	<b>0</b>	<b>5</b>	<b>18</b>	<b>61</b>
1 Alberni-Clayoquot	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	1	1
4 Cariboo	0	0	0	0	0
5 Central Coast	0	0	0	1	1
6 Central Fraser Valley	3	0	0	0	11
7 Central Kootenay	0	0	0	0	1
8 Central Okanagan	0	0	1	1	2
9 Columbia-Shuswap	0	0	0	1	1
10 Comox-Strathcona	0	0	0	1	5
11 Cowichan Valley	1	0	0	0	1
12 Dewdney-Alouette	0	0	1	3	6
13 East Kootenay	0	0	0	2	3
14 Fraser-Cheam	0	0	0	0	1
15 Fraser-Fort George	1	0	0	0	3
17 Kitimat-Stikine	0	0	0	0	0
18 Kootenay Boundary	0	0	0	1	1
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	0	0	1	0	5
21 North Okanagan	1	0	1	0	5
22 Okanagan-Similkameen	1	0	0	1	3
23 Peace River-Liard	0	0	0	1	2
24 Powell River	0	0	0	0	0
25 Skeena-Queen Charlotte	0	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	1	1
29 Thompson-Nicola	0	0	1	2	7
<b>Metropolitan - Subtotal</b>	<b>50</b>	<b>6</b>	<b>11</b>	<b>49</b>	<b>235</b>
3 Capital	8	0	1	2	30
16 Greater Vancouver	42	6	10	47	205
<b>TOTAL</b>	<b>57</b>	<b>6</b>	<b>16</b>	<b>65</b>	<b>296</b>

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

<sup>2</sup> Includes non-responses to the question concerning principal area of service.

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Table 5

**Occupational Therapists (Members)<sup>1</sup> in British Columbia**  
**by Principal Type of Position by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Staff Therapist</u>	<u>Senior Therapist</u>	<u>Sole Charge</u>	<u>Assistant/ Supervisor</u>	<u>Program Coord/ Director</u>	<u>Other<sup>2</sup></u>	<u>Not Applicable<sup>3</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>21</b>	<b>5</b>	<b>10</b>	<b>5</b>	<b>3</b>	<b>2</b>	<b>15</b>	<b>61</b>
1 Alberni-Clayoquot	0	0	0	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0	1	1
4 Cariboo	0	0	0	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0	1	1
6 Central Fraser Valley	7	1	2	1	0	0	0	11
7 Central Kootenay	0	1	0	0	0	0	0	1
8 Central Okanagan	1	0	0	0	0	0	1	2
9 Columbia-Shuswap	0	0	0	0	0	0	1	1
10 Comox-Strathcona	0	1	2	1	0	0	1	5
11 Cowichan Valley	1	0	0	0	0	0	0	1
12 Dewdney-Alouette	2	0	0	0	1	0	3	6
13 East Kootenay	0	0	1	0	0	0	2	3
14 Fraser-Cheam	0	0	1	0	0	0	0	1
15 Fraser-Fort George	1	0	1	1	0	0	0	3
17 Kitimat-Stikine	0	0	0	0	0	0	0	0
18 Kootenay Boundary	1	0	0	0	0	0	0	1
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	3	0	0	2	0	0	0	5
21 North Okanagan	2	0	2	0	0	1	0	5
22 Okanagan-Similkameen	1	1	0	0	0	0	1	3
23 Peace River-Liard	0	0	0	0	1	0	1	2
24 Powell River	0	0	0	0	0	0	0	0
25 Skeena-Queen Charlotte	0	1	0	0	0	0	0	1
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	1	1
29 Thompson-Nicola	2	0	1	0	1	1	2	7
<b>Metropolitan - Subtotal</b>	<b>104</b>	<b>40</b>	<b>6</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>50</b>	<b>235</b>
3 Capital	11	9	1	2	4	1	2	30
16 Greater Vancouver	93	31	5	9	7	12	48	205
<b>TOTAL</b>	<b>125</b>	<b>45</b>	<b>16</b>	<b>16</b>	<b>14</b>	<b>15</b>	<b>85</b>	<b>298</b>

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

<sup>2</sup> Includes 9 teachers/professors/lecturers, 5 consultants and 1 acting director/supervisor.

<sup>3</sup> Includes non-responses to the question concerning principal type of position.

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## **OPTOMETRISTS**



## OPTOMETRISTS

**Definition:** An optometrist:

"Examines patients' eyes to determine visual efficiency, and prescribes treatment (excluding surgery) to conserve, improve and correct vision; Locates and measures defects in vision, using ophthalmoscopes, biomicroscopes and other instruments. Refers patients to medical practitioner if signs of ocular disease are detected. Prescribes eyeglasses, contact lenses, eye exercises, and other treatments that do not require surgery. Tests finished lenses for conformity with prescriptions. Teaches patient use and care of contact lenses. Counsels patients regarding visual hygiene, lighting arrangements, working distances and safety factors. Assists patients with selection of frames, and adjusts frames to ensure comfortable fit."<sup>1</sup>

**Date of Record:** September 1981 and October 1983.

**Source of Data:** The British Columbia Optometric Association.<sup>2</sup>

**Preparation and Updating:**

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

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

Major Group 31, No. 3153-110, p. 61, Ottawa: Employment and Immigration Canada.

<sup>2</sup> In order to practice as an optometrist in British Columbia, it is necessary to be registered by the British Columbia Optometric Association and to hold a valid licence.

*Optometrists  
per 10,000 Population  
by Regional Hospital District  
October 1983*

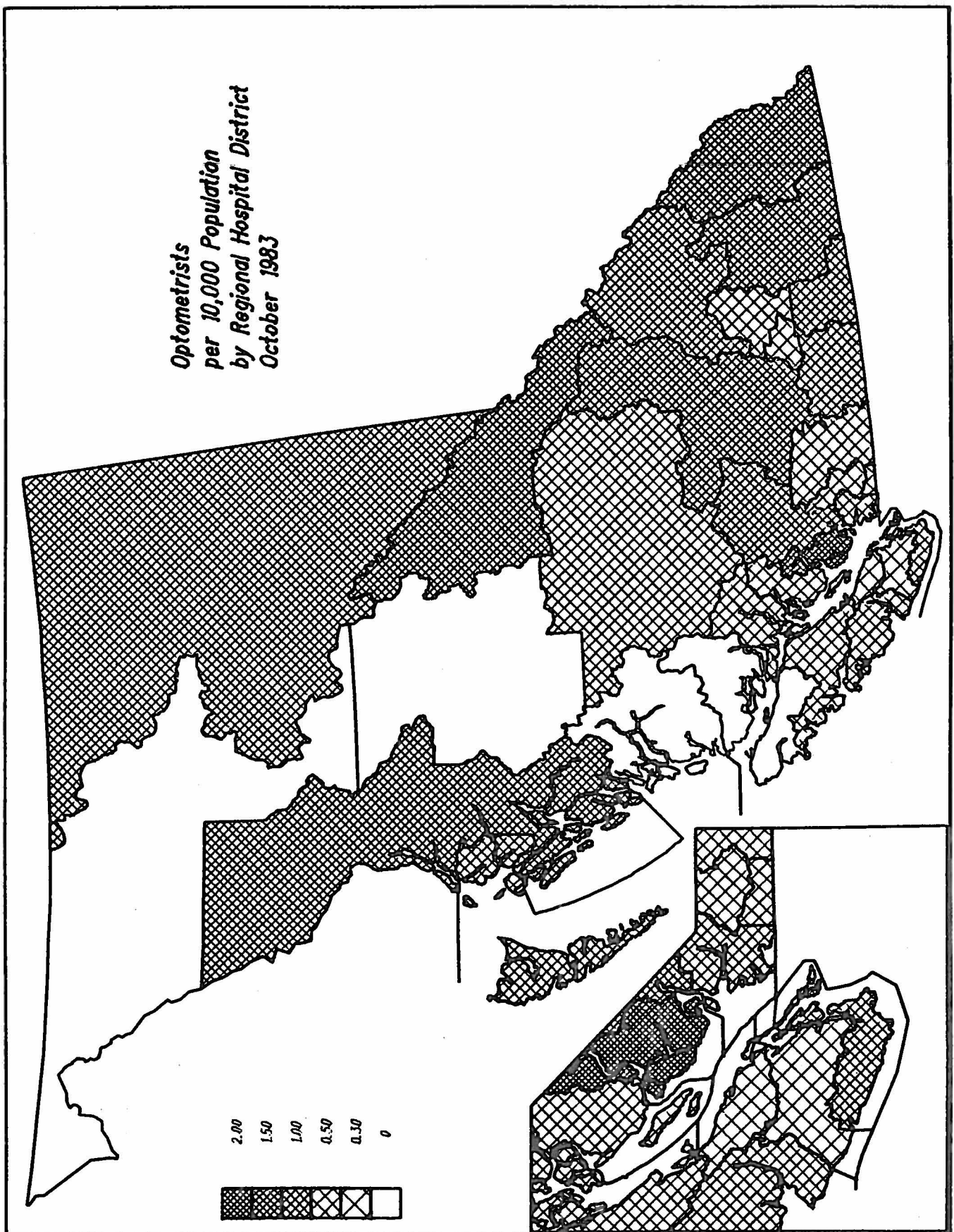


Table 1

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

by Regional Hospital District

September 1981 and October 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>93</b>	<b>102</b>	<b>0.70</b>	<b>0.74</b>	<b>4.53</b>	<b>2.65</b>
1 Alberni-Clayoquot	3	2	0.92	0.61	*	*
2 Bulkley-Nechako	0	0	0.0	0.0	*	*
4 Cariboo	3	4	0.51	0.65	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	6	6	0.52	0.49	*	*
7 Central Kootenay	7	6	1.34	1.13	*	*
8 Central Okanagan	4	4	0.47	0.45	*	*
9 Columbia-Shuswap	3	4	0.75	0.96	*	*
10 Comox-Strathcona	3	4	0.44	0.56	*	*
11 Cowichan Valley	2	2	0.38	0.37	*	*
12 Dewdney-Alouette	2	3	0.32	0.47	*	*
13 East Kootenay	8	7	1.49	1.25	*	*
14 Fraser-Cheam	2	3	0.35	0.51	*	*
15 Fraser-Fort George	9	12	1.01	1.29	*	*
17 Kitimat-Stikine	3	5	0.71	1.13	*	*
18 Kootenay Boundary	3	3	0.90	0.90	*	*
19 Mount Waddington	0	0	0.0	0.0	*	*
20 Nanaimo	4	3	0.52	0.37	*	*
21 North Okanagan	3	3	0.55	0.53	*	*
22 Okanagan-Similkameen	6	5	1.05	0.85	*	*
23 Peace River-Liard	5	6	0.90	1.01	*	*
24 Powell River	1	1	0.52	0.51	*	*
25 Skeena-Queen Charlotte	2	2	0.83	0.80	*	*
26 Squamish-Lillooet	0	2	0.0	1.02	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	1	3	0.65	1.91	*	*
29 Thompson-Nicola	13	12	1.27	1.14	-3.77	-5.23
<b>Metropolitan - Subtotal</b>	<b>91</b>	<b>97</b>	<b>0.64</b>	<b>0.67</b>	<b>3.11</b>	<b>2.28</b>
3 Capital	19	20	0.76	0.79	2.49	1.76
16 Greater Vancouver	72	77	0.62	0.65	3.28	2.42
<b>TOTAL</b>	<b>184</b>	<b>199</b>	<b>0.67</b>	<b>0.71</b>	<b>3.83</b>	<b>2.49</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> 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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## **OSTEOPATHS**



## OSTEOPATHS

**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>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** College of Physicians and Surgeons of British Columbia.<sup>2</sup>

**Preparation and Updating:**

The data are stored in DOCSFILE, a dynamic computer-based file maintained for physicians.

The table includes osteopaths who reported a B.C. 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.

<sup>2</sup> In order to practice osteopathic medicine in B.C., it is necessary to be registered by the College of Physicians and Surgeons of British Columbia under Section 37 of the *Medical Practitioners Act*.



Table 1

**Osteopaths<sup>1</sup> in British Columbia  
by Regional Hospital District  
September 1981 and September 1983**

<u>Regional Hospital District</u>	<u>Total</u>	
	<u>1981</u>	<u>1983</u>
<b>Non-Metropolitan Subtotal</b>	<b>2</b>	<b>2</b>
22 Okanagan-Similkameen	1	1
26 Squamish-Lillooet	1	1
<b>Metropolitan Subtotal</b>	<b>4</b>	<b>4</b>
03 Capital	2	2
16 Greater Vancouver	2	2
<b>TOTAL</b>	<b>6</b>	<b>6</b>

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

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## PHARMACISTS





## PHARMACISTS

**Definition:** The 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>

**Date of Record:** September 1981 and September 1983.

**Source of Data:** The College of Pharmacists of British Columbia.<sup>2</sup>

**Preparation and Updating:**

Pharmacists registered in British Columbia apply annually for a licence from the College of Pharmacists of British Columbia. Notification of new registrants, or changes in location, employer, narcotic signing authority or managerial function are received on a monthly basis by the Health Manpower Research Unit. These updates, carefully prepared by the College of Pharmacists are then transferred into *PHMFILE*, a dynamic computer-based file.

The update of employment data occurs through an annual computer-produced employment profile.

The tables include pharmacists who had a B.C. address at the date of record.

---

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

<sup>2</sup>In order to practice as a pharmacist in British Columbia, it is necessary to be registered by the College of Pharmacists of British Columbia and licensed to practice pharmaceutical chemistry.

## Definition of Terms:

### 1. Type of Employer

Pharmacists may or may not be employed in the field of pharmacy. Pharmaceutical employer is reported by the registrant in the annual employment profile and responses have been aggregated into the following categories<sup>3</sup>:

- a) Retail pharmacy
- b) Hospital pharmacy
- c) Other

### 2. Position of Employment

Position of pharmaceutical employment is reported by the registrant in the annual employment profile and responses have been aggregated into the following categories<sup>3</sup>:

- a) Manager (employer or employee)
- b) Dispensing pharmacist (non-manager)
- c) Other

### 3. Analysis of Change

Table 4 illustrates the sources of change which affected the stock of pharmacists from 1981 to 1983.

*New registrants* include all pharmacists as of September 1983 who registered with the College *for the first time* subsequent to September 1981. New registrants are recorded according to their place of graduation; i.e., from U.B.C., Other Canadian Schools (O.Can), the United Kingdom (U.K.), or Other.

*Re-activations* (Re-Act) represent those pharmacists in the September 1983 stock whose date of initial registration fell before October 1981, but who were not included in the September 1981 stock.

*Attrition* (Attr'n) describes those pharmacists who were included in the 1981 pharmacist stock, but who, because of death, retirement or non-renewal of licensure, did not appear in the 1983 pharmacist stock.

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

---

<sup>3</sup>In addition, a "not answered" group was tabulated (See Note on the last page of this text).

**NOTE:**

Because of a five-month difference in dates of record for registration and employment data, pharmacists registering between April 1983 and September 1983 did not receive an employment profile to complete. They are included in Tables 2 and 3 in the "not answered" category. The majority of pharmacists in this category, however, did receive an employment profile, but chose not to return it or not to answer the questions concerning employment.

*Pharmacists  
per 10,000 Population  
by Regional Hospital District  
September 1983*

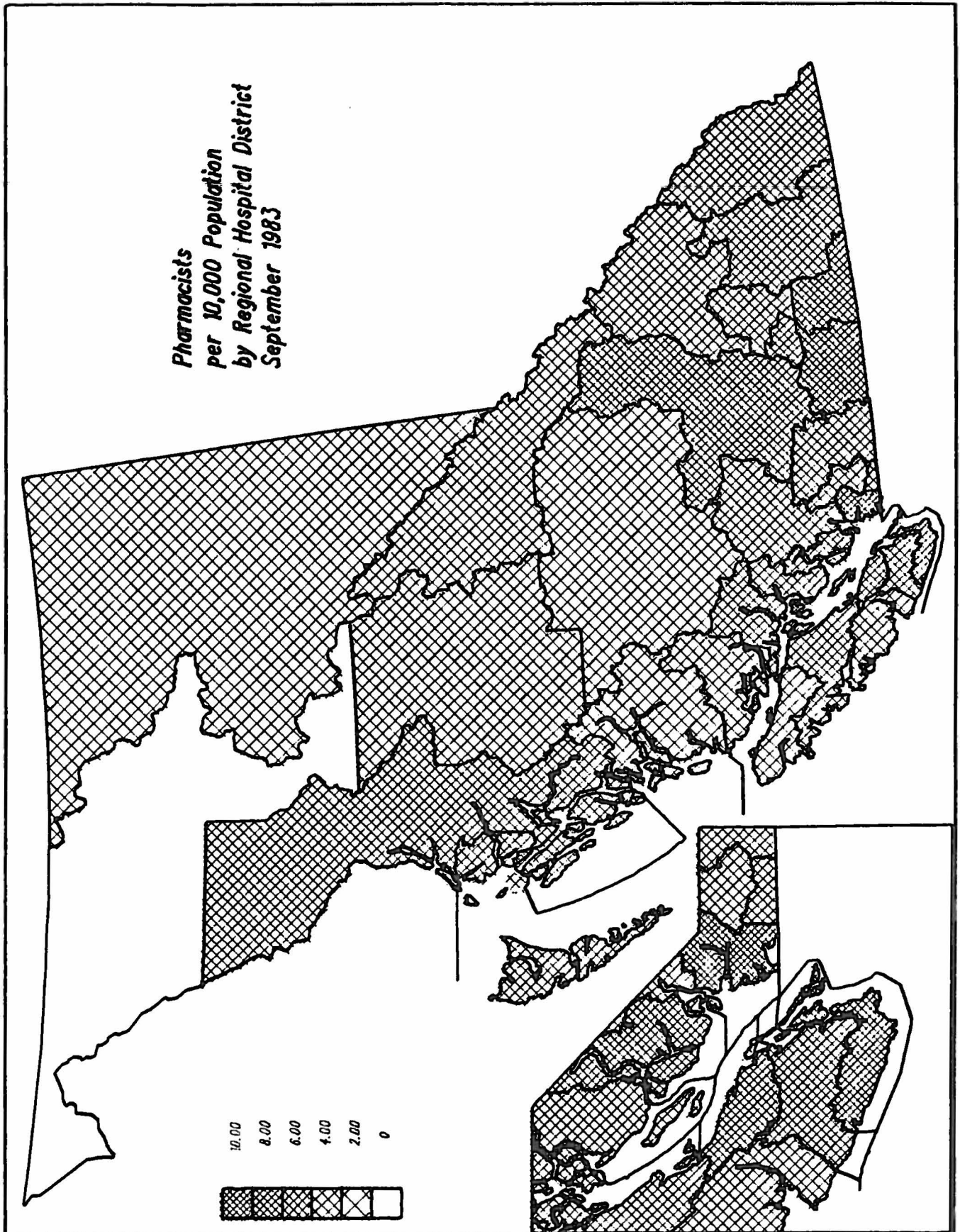


Table 1

**Pharmacists<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Number		Number Per 10,000 Population		Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>699</b>	<b>710</b>	<b>5.27</b>	<b>5.16</b>	<b>0.78</b>	<b>-1.11</b>
1 Alberni-Clayoquot	15	14	4.61	4.24	-3.39	-4.08
2 Bulkley-Nechako	15	15	3.92	3.74	0.00	-2.22
4 Cariboo	25	21	4.22	3.40	-8.35	-10.27
5 Central Coast	2	1	6.56	3.18	*	*
6 Central Fraser Valley	68	61	5.91	4.99	-5.29	-8.13
7 Central Kootenay	27	28	5.19	5.28	1.84	0.90
8 Central Okanagan	48	58	5.63	6.55	9.92	7.89
9 Columbia-Shuswap	17	18	4.24	4.31	2.90	0.87
10 Comox-Strathcona	36	37	5.25	5.15	1.38	-0.90
11 Cowichan Valley	33	32	6.26	5.87	-1.53	-3.15
12 Dewdney-Alouette	29	27	4.68	4.22	-3.51	-4.97
13 East Kootenay	26	27	4.84	4.83	1.90	-0.06
14 Fraser-Cheam	30	29	5.27	4.98	-1.68	-2.80
15 Fraser-Fort George	37	37	4.14	3.97	0.00	-2.05
17 Kitimat-Stikine	20	22	4.72	4.98	4.88	2.70
18 Kootenay Boundary	20	24	6.02	7.18	9.54	9.22
19 Mount Waddington	7	6	4.77	3.86	*	*
20 Nanaimo	51	54	6.61	6.70	2.90	0.66
21 North Okanagan	29	28	5.34	4.95	-1.74	-3.64
22 Okanagan-Similkameen	39	45	6.82	7.65	7.42	5.93
23 Peace River-Liard	20	19	3.61	3.21	-2.53	-5.64
24 Powell River	8	9	4.13	4.61	*	*
25 Skeena-Queen Charlotte	10	12	4.16	4.82	9.54	7.57
26 Squamish-Lillooet	14	9	7.40	4.60	-19.82	-21.18
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	12	10	7.74	6.37	-8.71	-9.26
29 Thompson-Nicola	61	67	5.98	6.36	4.80	3.14
<b>Metropolitan - Subtotal</b>	<b>1,219</b>	<b>1,294</b>	<b>8.59</b>	<b>8.96</b>	<b>3.03</b>	<b>2.16</b>
3 Capital	186	199	7.46	7.86	3.44	2.67
16 Greater Vancouver	1,033	1,095	8.83	9.20	2.96	2.07
<b>TOTAL</b>	<b>1,918</b>	<b>2,004</b>	<b>6.99</b>	<b>7.11</b>	<b>2.22</b>	<b>0.84</b>

<sup>1</sup> Definitions are as in 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 2

**Pharmacists<sup>1</sup> in British Columbia**  
**by Type of Employer by Regional Hospital District**  
**September 1983**

Regional Hospital District	Employed in Pharmacy			Not Employed in Pharmacy	Not Answered	Total
	Retail Pharmacy	Hospital Pharmacy	Other <sup>2</sup>			
<b>Non-Metropolitan - Subtotal</b>	<b>495</b>	<b>70</b>	<b>7</b>	<b>32</b>	<b>106</b>	<b>710</b>
1 Alberni-Clayoquot	9	2	0	0	3	14
2 Bulkley-Nechako	12	1	0	1	1	15
4 Cariboo	13	2	0	1	5	21
5 Central Coast	0	1	0	0	0	1
6 Central Fraser Valley	40	7	1	1	12	61
7 Central Kootenay	21	3	0	1	3	28
8 Central Okanagan	38	4	2	3	11	58
9 Columbia-Shuswap	14	3	0	0	1	18
10 Comox-Strathcona	24	7	2	0	4	37
11 Cowichan Valley	24	3	0	1	4	32
12 Dewdney-Alouette	20	2	1	2	2	27
13 East Kootenay	18	2	0	1	6	27
14 Fraser-Cheam	18	4	0	2	5	29
15 Fraser-Fort George	30	5	0	1	1	37
17 Kitimat-Stikine	18	0	0	1	3	22
18 Kootenay Boundary	15	2	0	3	4	24
19 Mount Waddington	6	0	0	0	0	6
20 Nanaimo	41	2	1	3	7	54
21 North Okanagan	21	2	0	1	4	28
22 Okanagan-Similkameen	29	3	0	1	12	45
23 Peace River-Liard	13	2	0	1	3	19
24 Powell River	6	1	0	0	2	9
25 Skeena-Queen Charlotte	10	1	0	0	1	12
26 Squamish-Lillooet	6	0	0	0	3	9
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	9	1	0	0	0	10
29 Thompson-Nicola	40	10	0	8	9	67
<b>Metropolitan - Subtotal</b>	<b>720</b>	<b>180</b>	<b>60</b>	<b>76</b>	<b>258</b>	<b>1,294</b>
3 Capital	121	34	6	13	25	199
16 Greater Vancouver	599	146	54	63	233	1,095
<b>TOTAL</b>	<b>1,215</b>	<b>250</b>	<b>67</b>	<b>108</b>	<b>364</b>	<b>2,004</b>

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

<sup>2</sup> Includes three pharmacists with unknown field of employment.

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

Table 3

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

by Position of Employment by Regional Hospital District

September 1983

Regional Hospital District	Employed in Pharmacy			Not Employed in Pharmacy	Not Answered	Total
	Manager	Dispensing Pharmacist	Other <sup>2</sup>			
<b>Non-Metropolitan - Subtotal</b>	<b>219</b>	<b>272</b>	<b>81</b>	<b>32</b>	<b>106</b>	<b>710</b>
1 Alberni-Clayoquot	5	4	2	0	3	14
2 Bulkley-Nechako	5	5	3	1	1	15
4 Cariboo	9	5	1	1	5	21
5 Central Coast	1	0	0	0	0	1
6 Central Fraser Valley	14	28	6	1	12	61
7 Central Kootenay	11	9	4	1	3	28
8 Central Okanagan	15	22	7	3	11	58
9 Columbia-Shuswap	7	5	5	0	1	18
10 Comox-Strathcona	12	16	5	0	4	37
11 Cowichan Valley	8	16	3	1	4	32
12 Dewdney-Alouette	6	13	4	2	2	27
13 East Kootenay	9	8	3	1	6	27
14 Fraser-Cheam	7	10	5	2	5	29
15 Fraser-Fort George	12	19	4	1	1	37
17 Kitimat-Stikine	7	9	2	1	3	22
18 Kootenay Boundary	7	9	1	3	4	24
19 Mount Waddington	3	1	2	0	0	6
20 Nanaimo	15	24	5	3	7	54
21 North Okanagan	11	9	3	1	4	28
22 Okanagan-Similkameen	10	16	6	1	12	45
23 Peace River-Liard	8	5	2	1	3	19
24 Powell River	4	3	0	0	2	9
25 Skeena-Queen Charlotte	6	3	2	0	1	12
26 Squamish-Lillooet	5	1	0	0	3	9
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	6	4	0	0	0	10
29 Thompson-Nicola	16	28	6	8	9	67
<b>Metropolitan - Subtotal</b>	<b>282</b>	<b>490</b>	<b>188</b>	<b>76</b>	<b>258</b>	<b>1,294</b>
3 Capital	50	81	30	13	25	199
16 Greater Vancouver	232	409	158	63	233	1,095
<b>TOTAL</b>	<b>501</b>	<b>762</b>	<b>269</b>	<b>108</b>	<b>364</b>	<b>2,004</b>

<sup>1</sup> Definitions are as in the attached text.<sup>2</sup> Includes four pharmacists with unknown position.

Prepared by:

Health Manpower Research Unit  
The University of British Columbia



Table 4

**Analysis of Change in the Number of Pharmacists<sup>1</sup>**  
**in British Columbia by Place of Graduation by Regional Hospital District**  
**September 1981 to September 1983**

Regional Hospital District	1981 <sup>2</sup>	New Registrants <sup>3</sup> by Place of Graduation					Re-Act <sup>4</sup>	Attr'n <sup>5</sup>	Migr'n <sup>5</sup>	1983 <sup>7</sup>
		B.C.	O.Can. <sup>6</sup>	U.K.	Other	Total				
<b>Non-Metropolitan - Subtotal</b>	<b>699</b>	<b>16</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>21</b>	<b>45</b>	<b>39</b>	<b>-16</b>	<b>710</b>
1 Alberni-Clayoquot	15	1	0	0	0	1	0	3	1	14
2 Bulkley-Nechako	15	0	0	0	0	0	2	0	-2	15
4 Cariboo	25	0	1	0	0	1	1	2	-4	21
5 Central Coast	2	0	0	0	0	0	1	2	0	1
6 Central Fraser Valley	68	0	0	0	0	0	2	3	-6	61
7 Central Kootenay	27	1	0	0	0	1	1	0	-1	28
8 Central Okanagan	48	1	2	0	0	3	2	1	6	58
9 Columbia-Shuswap	17	1	0	0	0	1	2	1	-1	18
10 Comox-Strathcona	36	0	0	0	0	0	2	2	1	37
11 Cowichan Valley	33	0	1	0	0	1	0	2	0	32
12 Dewdney-Alouette	29	0	0	0	0	0	2	2	-2	27
13 East Kootenay	26	1	0	0	0	1	2	2	0	27
14 Fraser-Cheam	30	2	0	0	0	2	1	5	1	29
15 Fraser-Fort George	37	0	0	0	0	0	2	2	0	37
17 Kitimat-Stikine	20	1	0	0	0	1	2	0	-1	22
18 Kootenay Boundary	20	1	0	0	0	1	3	1	1	24
19 Mount Waddington	7	0	0	0	0	0	0	0	-1	6
20 Nanaimo	51	1	1	0	0	2	4	2	-1	54
21 North Okanagan	29	0	0	0	0	0	2	2	-1	28
22 Okanagan-Similkameen	39	4	0	0	0	4	2	2	2	45
23 Peace River-Liard	20	0	0	0	0	0	2	1	-2	19
24 Powell River	8	1	0	0	0	1	1	0	-1	9
25 Skeena-Queen Charlotte	10	1	0	0	0	1	3	1	-1	12
26 Squamish-Lillooet	14	0	0	0	0	0	1	0	-6	9
27 Stikine	0	0	0	0	0	0	0	0	0	0
28 Sunshine Coast	12	0	0	0	0	0	0	1	-1	10
29 Thompson-Nicola	61	0	0	0	0	0	5	2	3	67
<b>Metropolitan - Subtotal</b>	<b>1,219</b>	<b>45</b>	<b>8</b>	<b>1</b>	<b>1</b>	<b>55</b>	<b>100</b>	<b>96</b>	<b>16</b>	<b>1,294</b>
3 Capital	186	4	0	0	0	4	15	12	6	199
16 Greater Vancouver	1,033	41	8	1	1	51	85	84	10	1,095
<b>TOTAL</b>	<b>1,918</b>	<b>61</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>76</b>	<b>145</b>	<b>135</b>	<b>0</b>	<b>2,004</b>

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

<sup>2</sup> Pharmacists who were licensed in September 1983 and registered for the first time after September 1981.

<sup>3</sup> Number of pharmacists as of September 1981.

<sup>4</sup> Pharmacists who were licensed in September 1983 but not in September 1981 and registered for the first time before October 1981.

<sup>5</sup> Pharmacists who were active in September 1981 but not in September 1983.

<sup>6</sup> Net effect of intraprovincial migration.

<sup>7</sup> Number of pharmacists as of September 1983.

<sup>8</sup> Other Canada.

Prepared by:

Health Manpower Research Unit

## 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>

**Date of Record:** September 1981 and September 1983.

**Sources of Data:** The College of Physicians and Surgeons of British Columbia (CPSBC), Medical Services Commission of British Columbia (MSC), and teaching hospitals and institutions in British Columbia.<sup>2</sup>

**Preparation and Updating:**

An update tape is received by the Health Manpower Research 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.

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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.

<sup>2</sup>In order to practice medicine in B.C. it is necessary to be registered by the College of Physicians and Surgeons of B.C.

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 B.C. address at the date of record.

#### 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 practice 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 practice).

##### 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. Specialty

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

The MSC specialty code developed to assess patient profiles is used unless:

- a) 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*,

- b) 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.

Tables 4, 5 and 6 group the physicians into broad specialty groups; Tables 7 and 8 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 Public Health and Community Medicine
- 33 Nuclear Medicine

and the following RCPSC specialties:

- Anaesthesia
- Cardiology
- Clinical Immunology
- Community Medicine
- Dermatology
- Dermatology and Syphilology<sup>3</sup>
- Diagnostic Radiology
- Gastroenterology
- Geriatric Medicine
- Haematology
- Internal Medicine
- Internal Medicine, T.B.<sup>3</sup>
- Neurology
- Nuclear Medicine
- Paediatrics

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

Paediatric Cardiology  
Physical Medicine and Rehabilitation  
Psychiatry  
Public Health<sup>4</sup>  
Radiation Oncology  
Respiratory Medicine  
Rheumatology  
Therapeutic Radiology<sup>4</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>4</sup>  
General Pathology  
Haematological Pathology  
Medical Biochemistry  
Medical Microbiology  
Neuropathology  
Pathology<sup>4</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

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<sup>4</sup>Ibid.

#### 4. Analysis of Change

Table 9 illustrates the sources of change which affected the stock of non-postgraduate physicians from 1981 to 1983.

*New registrants* include physicians who registered *for the first time* subsequent to September 1981 and were licensed to practice in September 1983. They are recorded according to their place of graduation i.e., from U.B.C., Other Canadian Schools (O.Can), the United Kingdom (U.K.), or Other.

*Re-activations* (Re-Act) include those physicians who, in 1981, were registered but not licensed to practice in B.C. and who were licensed to practice in B.C. in 1983. More specifically, those designated *PG to Non-PG* (PG-NPG) were registered as of September 1981 and were engaged in postgraduate work. In September 1983 they held non-postgraduate status and were licensed to practice in the province. *Other* includes Directory Active physicians who were out-of-province, or physicians who were not licensed to practice in B.C. in 1981, but who were licensed to practice in B.C. in September 1983.

*Attrition* (Attr'n) describes those physicians who were included in the 1981 physician stock but who, because of death, retirement or non-renewal of licensure, were not included in the 1983 physician stock.

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



*Directory Active Physicians  
per 10,000 Population  
by Regional Hospital District  
September 1983*

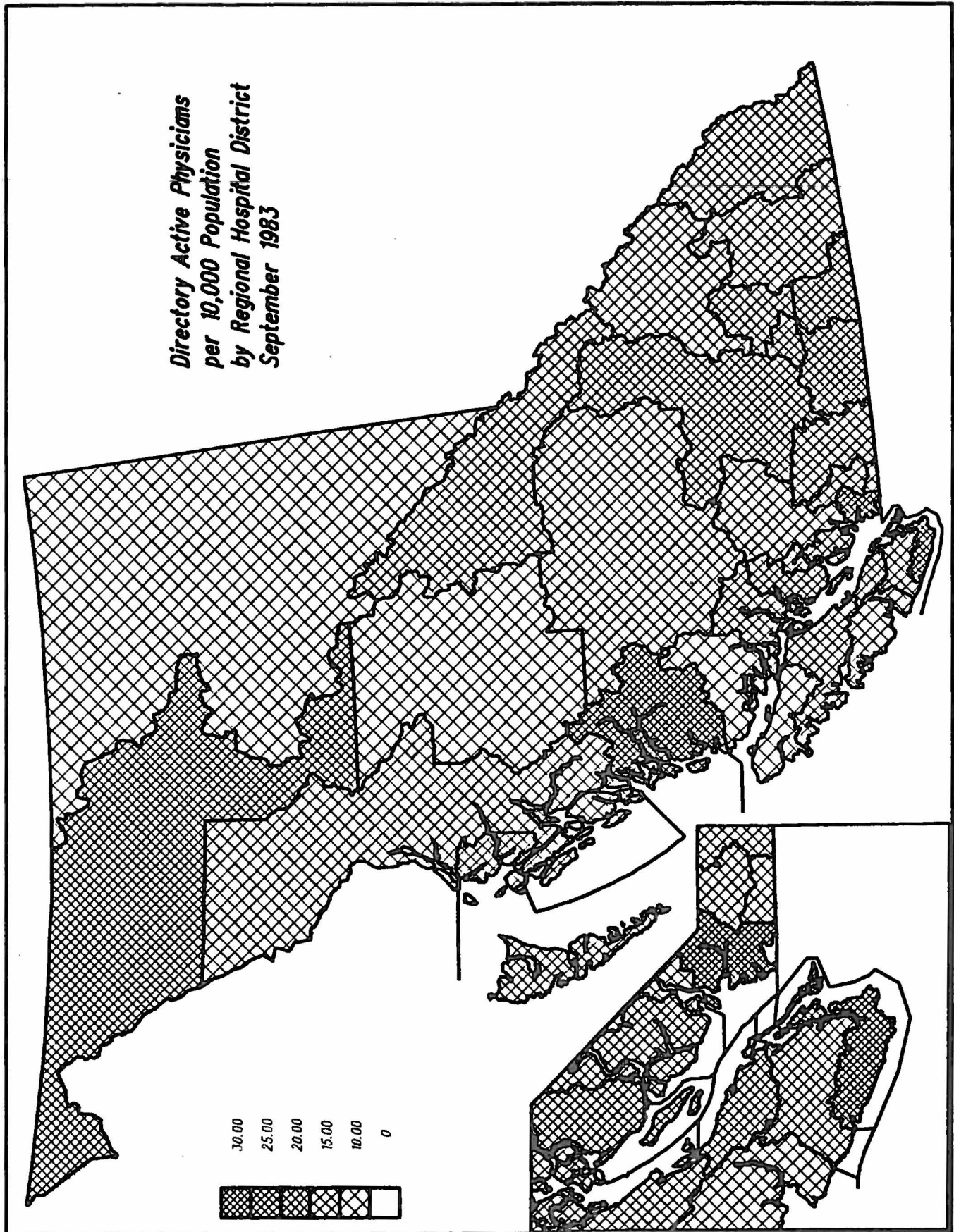


Table 1

**Directory Active Physicians<sup>1</sup> in British Columbia**  
**by Registration Status by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Non-Postgraduate		Postgraduate		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>1,737</b>	<b>1,830</b>	<b>3</b>	<b>3</b>	<b>1,740</b>	<b>1,833</b>
1 Alberni-Clayoquot	30	34	0	0	30	34
2 Bulkley-Nechako	34	34	0	0	34	34
4 Cariboo	56	66	1	0	57	66
5 Central Coast	7	7	0	1	7	8
6 Central Fraser Valley	138	146	0	0	138	146
7 Central Kootenay	60	63	0	0	60	63
8 Central Okanagan	143	146	0	0	143	146
9 Columbia-Shuswap	41	47	0	0	41	47
10 Comox-Strathcona	96	98	0	0	96	98
11 Cowichan Valley	69	75	0	0	69	75
12 Dewdney-Alouette	71	81	0	0	71	81
13 East Kootenay	69	74	0	0	69	74
14 Fraser-Cheam	76	81	0	0	76	81
15 Fraser-Fort George	115	119	0	0	115	119
17 Kitimat-Stikine	50	45	0	2	50	47
18 Kootenay Boundary	53	56	1	0	54	56
19 Mount Waddington	13	13	0	0	13	13
20 Nanaimo	124	133	0	0	124	133
21 North Okanagan	78	82	0	0	78	82
22 Okanagan-Similkameen	90	100	0	0	90	100
23 Peace River-Liard	52	49	0	0	52	49
24 Powell River	33	32	0	0	33	32
25 Skeena-Queen Charlotte	35	36	0	0	35	36
26 Squamish-Lillooet	20	22	0	0	20	22
27 Stikine	2	4	0	0	2	4
28 Sunshine Coast	21	23	1	0	22	23
29 Thompson-Nicola	161	164	0	0	161	164
<b>Metropolitan - Subtotal</b>	<b>3,499</b>	<b>3,717</b>	<b>451</b>	<b>488</b>	<b>3,950</b>	<b>4,205</b>
3 Capital	640	674	26	28	666	702
16 Greater Vancouver	2,859	3,043	425	460	3,284	3,503
<b>TOTAL</b>	<b>5,236</b>	<b>5,547<sup>2</sup></b>	<b>454</b>	<b>491</b>	<b>5,690</b>	<b>6,038</b>

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

<sup>2</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 2

**Directory Active Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by Registration Status by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	Non-Postgraduate		Postgraduate		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>13.11</b>	<b>13.30</b>	<b>0.02</b>	<b>0.02</b>	<b>13.13</b>	<b>13.32</b>
1 Alberni-Clayoquot	9.21	10.29	0.0	0.0	9.21	10.29
2 Bulkley-Nechako	8.88	8.49	0.0	0.0	8.88	8.49
4 Cariboo	9.45	10.68	0.17	0.0	9.62	10.68
5 Central Coast	22.97	22.25	0.0	3.18	22.97	25.43
6 Central Fraser Valley	12.00	11.94	0.0	0.0	12.00	11.94
7 Central Kootenay	11.53	11.88	0.0	0.0	11.53	11.88
8 Central Okanagan	16.78	16.50	0.0	0.0	16.78	16.50
9 Columbia-Shuswap	10.22	11.25	0.0	0.0	10.22	11.25
10 Comox-Strathcona	13.99	13.65	0.0	0.0	13.99	13.65
11 Cowichan Valley	13.09	13.77	0.0	0.0	13.09	13.77
12 Oewdney-Alouette	11.45	12.67	0.0	0.0	11.45	12.67
13 East Kootenay	12.84	13.25	0.0	0.0	12.84	13.25
14 Fraser-Cheam	13.35	13.90	0.0	0.0	13.35	13.90
15 Fraser-Fort George	12.86	12.77	0.0	0.0	12.86	12.77
17 Kitimat-Stikine	11.79	10.18	0.0	0.45	11.79	10.63
18 Kootenay Boundary	15.95	16.75	0.30	0.0	16.25	16.75
19 Mount Waddington	8.86	8.37	0.0	0.0	8.86	8.37
20 Nanaimo	16.08	16.51	0.0	0.0	16.08	16.51
21 North Okanagan	14.35	14.51	0.0	0.0	14.35	14.51
22 Okanagan-Similkameen	15.74	17.01	0.0	0.0	15.74	17.01
23 Peace River-Liard	9.38	8.28	0.0	0.0	9.38	8.28
24 Powell River	17.04	16.39	0.0	0.0	17.04	16.39
25 Skeena-Queen Charlotte	14.57	14.45	0.0	0.0	14.57	14.45
26 Squamish-Lillooet	10.57	11.23	0.0	0.0	10.57	11.23
27 Stikine	10.24	19.50	0.0	0.0	10.24	19.50
28 Sunshine Coast	13.55	14.66	0.65	0.0	14.19	14.66
29 Thompson-Nicola	15.79	15.58	0.0	0.0	15.79	15.58
<b>Metropolitan - Subtotal</b>	<b>24.65</b>	<b>25.75</b>	<b>3.18</b>	<b>3.38</b>	<b>27.83</b>	<b>29.13</b>
3 Capital	25.65	26.62	1.04	1.11	26.70	27.72
16 Greater Vancouver	24.44	25.56	3.63	3.86	28.07	29.43
<b>TOTAL</b>	<b>19.08</b>	<b>19.67<sup>2</sup></b>	<b>1.65</b>	<b>1.74</b>	<b>20.73</b>	<b>21.41</b>

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

<sup>2</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:

Health Manpower Research 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 Registration Status by Regional Hospital District**  
**September 1981 to September 1983**

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>2.64</b>	<b>0.71</b>	*	*	<b>2.64</b>	<b>0.71</b>
1 Alberni-Clayoquot	6.46	5.69	*	*	6.46	5.69
2 Bulkley-Nechako	0.00	-2.22	*	*	0.00	-2.22
4 Cariboo	8.56	6.29	*	*	7.61	5.36
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	2.86	-0.22	*	*	2.86	-0.22
7 Central Kootenay	2.47	1.53	*	*	2.47	1.53
8 Central Okanagan	1.04	-0.83	*	*	1.04	-0.83
9 Columbia-Shuswap	7.07	4.96	*	*	7.07	4.96
10 Comox-Strathcona	1.04	-1.24	*	*	1.04	-1.24
11 Cowichan Valley	4.26	2.54	*	*	4.26	2.54
12 Dewdney-Alouette	6.81	5.19	*	*	6.81	5.19
13 East Kootenay	3.56	1.56	*	*	3.56	1.56
14 Fraser-Cheam	3.24	2.06	*	*	3.24	2.06
15 Fraser-Fort George	1.72	-0.36	*	*	1.72	-0.36
17 Kitimat-Stikine	-5.13	-7.10	*	*	-3.05	-5.06
18 Kootenay Boundary	2.79	2.49	*	*	1.84	1.53
19 Mount Waddington	0.00	-2.80	*	*	0.00	-2.80
20 Nanaimo	3.57	1.31	*	*	3.57	1.31
21 North Okanagan	2.53	0.54	*	*	2.53	0.54
22 Okanagan-Similkameen	5.41	3.95	*	*	5.41	3.95
23 Peace River-Liard	-2.93	-6.03	*	*	-2.93	-6.03
24 Powell River	-1.53	-1.92	*	*	-1.53	-1.92
25 Skeena-Queen Charlotte	1.42	-0.41	*	*	1.42	-0.41
26 Squamish-Lillooet	4.88	3.10	*	*	4.88	3.10
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	4.65	4.03	*	*	2.25	1.64
29 Thompson-Nicola	0.93	-0.67	*	*	0.93	-0.67
<b>Metropolitan - Subtotal</b>	<b>3.07</b>	<b>2.20</b>	<b>4.02</b>	<b>3.14</b>	<b>3.18</b>	<b>2.31</b>
3 Capital	2.62	1.86	3.77	3.00	2.67	1.90
16 Greater Vancouver	3.17	2.28	4.04	3.14	3.28	2.39
<b>TOTAL</b>	<b>2.93<sup>5</sup></b>	<b>1.54<sup>5</sup></b>	<b>4.00</b>	<b>2.59</b>	<b>3.01</b>	<b>1.62</b>

<sup>1</sup> A twenty-four-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.

<sup>5</sup> Excludes 16 physicians who had completed their postgraduate work and would have been classified as Non-Postgraduate in September 1983 on payment of dues.

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

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

Table 4

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by Specialty Group by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>1,165</b>	<b>1,221</b>	<b>274</b>	<b>301</b>	<b>27</b>	<b>34</b>	<b>271</b>	<b>274</b>	<b>1,737</b>	<b>1,830</b>
1 Alberni-Clayoquot	24	27	3	3	0	1	3	3	30	34
2 Bulkley-Nechako	29	30	1	1	1	0	3	3	34	34
4 Cariboo	45	49	4	10	0	0	7	7	56	66
5 Central Coast	7	7	0	0	0	0	0	0	7	7
6 Central Fraser Valley	92	95	23	27	0	2	23	22	138	146
7 Central Kootenay	49	51	5	6	1	1	5	5	60	63
8 Central Okanagan	73	73	36	40	3	3	31	30	143	146
9 Columbia-Shuswap	36	40	3	6	0	0	2	1	41	47
10 Comox-Strathcona	65	65	16	18	1	1	14	14	96	98
11 Cowichan Valley	46	50	14	14	0	0	9	11	69	75
12 Dewdney-Alouette	60	64	4	9	1	1	6	7	71	81
13 East Kootenay	52	54	8	11	0	0	9	9	69	74
14 Fraser-Cheam	53	55	11	10	1	3	11	13	76	81
15 Fraser-Fort George	70	74	22	18	3	5	20	22	115	119
17 Kitimat-Stikine	39	33	4	4	0	2	7	6	50	45
18 Kootenay Boundary	34	39	8	8	1	1	10	8	53	56
19 Mount Waddington	13	13	0	0	0	0	0	0	13	13
20 Nanaimo	66	74	28	28	5	4	25	27	124	133
21 North Okanagan	44	45	17	19	1	2	16	16	78	82
22 Okanagan-Similkameen	54	61	15	19	2	2	19	18	90	100
23 Peace River-Liard	40	37	6	6	0	0	6	6	52	49
24 Powell River	21	21	7	6	0	0	5	5	33	32
25 Skeena-Queen Charlotte	29	29	2	2	0	0	4	5	35	36
26 Squamish-Lillooet	18	20	1	1	0	0	1	1	20	22
27 Stikine	2	4	0	0	0	0	0	0	2	4
28 Sunshine Coast	17	19	1	1	1	0	2	3	21	23
29 Thompson-Nicola	87	92	35	34	6	6	33	32	161	164
<b>Metropolitan - Subtotal</b>	<b>1,705</b>	<b>1,823</b>	<b>1,108</b>	<b>1,173</b>	<b>89</b>	<b>103</b>	<b>597</b>	<b>618</b>	<b>3,499</b>	<b>3,717</b>
3 Capital	335	357	182	190	12	15	111	112	640	674
16 Greater Vancouver	1,370	1,466	926	983	77	88	486	506	2,859	3,043
<b>TOTAL</b>	<b>2,870</b>	<b>3,044</b>	<b>1,382</b>	<b>1,474</b>	<b>116</b>	<b>137</b>	<b>868</b>	<b>892</b>	<b>5,236</b>	<b>5,547<sup>2</sup></b>

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

<sup>2</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:

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The University of British Columbia

Table 5

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by Specialty Group by Regional Hospital District**  
**September 1981 and September 1983**

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		Total	
	1981	1983	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>8.79</b>	<b>8.87</b>	<b>2.07</b>	<b>2.19</b>	<b>0.20</b>	<b>0.25</b>	<b>2.05</b>	<b>1.99</b>	<b>13.11</b>	<b>13.30</b>
1 Alberni-Clayoquot	7.37	8.17	0.92	0.91	0.0	0.30	0.92	0.91	9.21	10.29
2 Bulkley-Nechako	7.57	7.49	0.26	0.25	0.26	0.0	0.78	0.75	8.88	8.49
4 Cariboo	7.59	7.93	0.68	1.62	0.0	0.0	1.18	1.13	9.45	10.68
5 Central Coast	22.97	22.25	0.0	0.0	0.0	0.0	0.0	0.0	22.97	22.25
6 Central Fraser Valley	8.00	7.77	2.00	2.21	0.0	0.16	2.00	1.80	12.00	11.94
7 Central Kootenay	9.41	9.62	0.96	1.13	0.19	0.19	0.96	0.94	11.53	11.88
8 Central Okanagan	8.56	8.25	4.22	4.52	0.35	0.34	3.64	3.39	16.78	16.50
9 Columbia-Shuswap	8.97	9.58	0.75	1.44	0.0	0.0	0.50	0.24	10.22	11.25
10 Comox-Strathcona	9.47	9.05	2.33	2.51	0.15	0.14	2.04	1.95	13.99	13.65
11 Cowichan Valley	8.73	9.18	2.66	2.57	0.0	0.0	1.71	2.02	13.09	13.77
12 Dewdney-Alouette	9.68	10.01	0.65	1.41	0.16	0.16	0.97	1.10	11.45	12.67
13 East Kootenay	9.68	9.67	1.49	1.97	0.0	0.0	1.68	1.61	12.84	13.25
14 Fraser-Cheam	9.31	9.44	1.93	1.72	0.18	0.51	1.93	2.23	13.35	13.90
15 Fraser-Fort George	7.83	7.94	2.46	1.93	0.34	0.54	2.24	2.36	12.86	12.77
17 Kitimat-Stikine	9.20	7.46	0.94	0.90	0.0	0.45	1.65	1.36	11.79	10.18
18 Kootenay Boundary	10.23	11.67	2.41	2.39	0.30	0.30	3.01	2.39	15.95	16.75
19 Mount Waddington	8.86	8.37	0.0	0.0	0.0	0.0	0.0	0.0	8.86	8.37
20 Nanaimo	8.56	9.18	3.63	3.48	0.65	0.50	3.24	3.35	16.08	16.51
21 North Okanagan	8.10	7.96	3.13	3.36	0.18	0.35	2.94	2.83	14.35	14.51
22 Okanagan-Similkameen	9.44	10.37	2.62	3.23	0.35	0.34	3.32	3.06	15.74	17.01
23 Peace River-Liard	7.21	6.25	1.08	1.01	0.0	0.0	1.08	1.01	9.38	8.28
24 Powell River	10.84	10.76	3.61	3.07	0.0	0.0	2.58	2.56	17.04	16.39
25 Skeena-Queen Charlotte	12.07	11.64	0.83	0.80	0.0	0.0	1.67	2.01	14.57	14.45
26 Squamish-Lillooet	9.51	10.21	0.53	0.51	0.0	0.0	0.53	0.51	10.57	11.23
27 Stikine	10.24	19.50	0.0	0.0	0.0	0.0	0.0	0.0	10.24	19.50
28 Sunshine Coast	10.97	12.11	0.65	0.64	0.65	0.0	1.29	1.91	13.55	14.66
29 Thompson-Nicola	8.53	8.74	3.43	3.23	0.59	0.57	3.24	3.04	15.79	15.58
<b>Metropolitan - Subtotal</b>	<b>12.01</b>	<b>12.63</b>	<b>7.81</b>	<b>8.13</b>	<b>0.63</b>	<b>0.71</b>	<b>4.21</b>	<b>4.28</b>	<b>24.65</b>	<b>25.75</b>
3 Capital	13.43	14.10	7.30	7.50	0.48	0.59	4.45	4.42	25.65	26.62
16 Greater Vancouver	11.71	12.32	7.92	8.26	0.66	0.74	4.15	4.25	24.44	25.56
<b>TOTAL</b>	<b>10.46</b>	<b>10.79</b>	<b>5.04</b>	<b>5.23</b>	<b>0.42</b>	<b>0.49</b>	<b>3.16</b>	<b>3.16</b>	<b>19.08</b>	<b>19.67<sup>2</sup></b>

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

<sup>2</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Table 6

**Average Annual Rate of Change<sup>1</sup>; Non-Postgraduate Physicians<sup>2</sup>**  
**in British Columbia by Specialty Group by Regional Hospital District**  
**September 1981 to September 1983**

Regional Hospital District	General Practice		Clinical Specialties		Laboratory Medicine Specialties		Surgical Specialties		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>	Number <sup>3</sup>	Ratio <sup>4</sup>	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>2.38</b>	<b>0.45</b>	<b>4.81</b>	<b>2.84</b>	<b>12.22</b>	<b>10.11</b>	<b>0.55</b>	<b>-1.34</b>	<b>2.84</b>	<b>0.71</b>
1 Alberni-Clayoquot	6.07	5.31	*	*	*	*	*	*	6.46	5.69
2 Bulkley-Nechako	1.71	-0.55	*	*	*	*	*	*	0.00	-2.22
4 Cariboo	4.35	2.17	*	*	*	*	*	*	8.56	6.29
5 Central Coast	*	*	*	*	*	*	*	*	*	*
6 Central Fraser Valley	1.62	-1.43	8.35	5.10	*	*	-2.20	-5.13	2.86	-0.22
7 Central Kootenay	2.02	1.08	*	*	*	*	*	*	2.47	1.53
8 Central Okanagan	0.00	-1.85	5.41	3.46	*	*	-1.63	-3.45	1.04	-0.83
9 Columbia-Shuswap	5.41	3.33	*	*	*	*	*	*	7.07	4.96
10 Comox-Strathcona	0.00	-2.25	6.07	3.68	*	*	0.00	-2.25	1.04	-1.24
11 Cowichan Valley	4.26	2.54	0.00	-1.65	*	*	*	*	4.26	2.54
12 Dewdney-Alouette	3.28	1.72	*	*	*	*	*	*	6.81	5.19
13 East Kootenay	1.90	-0.06	*	*	*	*	*	*	3.56	1.56
14 Fraser-Cheam	1.87	0.71	-4.65	-5.74	*	*	8.71	7.47	3.24	2.06
15 Fraser-Fort George	2.82	0.71	-9.55	-11.40	*	*	4.88	2.73	1.72	-0.36
17 Kitimat-Stikine	-8.01	-9.92	*	*	*	*	*	*	-5.13	-7.10
18 Kootenay Boundary	7.10	6.78	*	*	*	*	-10.56	-10.82	2.79	2.49
19 Mount Waddington	0.00	-2.80	*	*	*	*	*	*	0.00	-2.80
20 Nanaimo	5.89	3.58	0.00	-2.18	*	*	3.92	1.66	3.57	1.31
21 North Okanagan	1.13	-0.83	5.72	3.67	*	*	0.00	-1.94	2.53	0.54
22 Okanagan-Similkameen	6.28	4.81	12.55	10.99	*	*	-2.67	-4.02	5.41	3.95
23 Peace River-Liard	-3.82	-6.89	*	*	*	*	*	*	-2.93	-6.03
24 Powell River	0.00	-0.40	*	*	*	*	*	*	-1.53	-1.92
25 Skeena-Queen Charlotte	0.00	-1.80	*	*	*	*	*	*	1.42	-0.41
26 Squamish-Lillooet	5.41	3.62	*	*	*	*	*	*	4.88	3.10
27 Stikine	*	*	*	*	*	*	*	*	*	*
28 Sunshine Coast	5.72	5.09	*	*	*	*	*	*	4.65	4.03
29 Thompson-Nicola	2.83	1.21	-1.44	-3.00	*	*	-1.53	-3.09	0.93	-0.67
<b>Metropolitan - Subtotal</b>	<b>3.40</b>	<b>2.53</b>	<b>2.89</b>	<b>2.02</b>	<b>7.58</b>	<b>6.67</b>	<b>1.74</b>	<b>0.89</b>	<b>3.07</b>	<b>2.20</b>
3 Capital	3.23	2.46	2.17	1.41	11.80	10.97	0.45	-0.30	2.62	1.86
16 Greater Vancouver	3.44	2.55	3.03	2.14	6.90	5.98	2.04	1.15	3.17	2.28
<b>TOTAL</b>	<b>2.99</b>	<b>1.60</b>	<b>3.27</b>	<b>1.88</b>	<b>8.68</b>	<b>7.21</b>	<b>1.37</b>	<b>0.01</b>	<b>2.93<sup>5</sup></b>	<b>1.54<sup>5</sup></b>

<sup>1</sup> A twenty-four-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.

<sup>5</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

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

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The University of British Columbia

Table 7

**Non-Postgraduate Physicians' in British Columbia**  
**by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>General Practice</u>	<u>Family Practice</u>	<u>General Practice Subtotal</u>	<u>Anaesthesia</u>	<u>Community Medicine<sup>2</sup></u>	<u>Dermatology<sup>3</sup></u>	<u>General Surgery<sup>4</sup></u>
<b>Non-Metropolitan - Subtotal</b>	<b>1,040</b>	<b>181</b>	<b>1,221</b>	<b>46</b>	<b>10</b>	<b>8</b>	<b>110</b>
1 Alberni-Clayoquot	24	3	27	1	0	0	2
2 Bulkley-Nechako	25	5	30	1	0	0	3
4 Cariboo	42	7	49	0	1	0	6
5 Central Coast	5	2	7	0	0	0	0
6 Central Fraser Valley	81	14	95	4	0	1	7
7 Central Kootenay	42	9	51	1	1	0	3
8 Central Okanagan	56	17	73	7	1	1	8
9 Columbia-Shuswap	34	6	40	1	0	0	1
10 Comox-Strathcona	60	5	65	4	2	0	5
11 Cowichan Valley	45	5	50	2	0	1	2
12 Dewdney-Alouette	53	11	64	2	1	0	3
13 East Kootenay	50	4	54	1	0	0	6
14 Fraser-Cheam	47	8	55	1	0	0	4
15 Fraser-Fort George	62	12	74	4	0	1	9
17 Kitimat-Stikine	26	7	33	1	0	0	3
18 Kootenay Boundary	37	2	39	0	0	0	4
19 Mount Waddington	12	1	13	0	0	0	0
20 Nanaimo	64	10	74	5	1	2	5
21 North Okanagan	32	13	45	2	1	1	6
22 Okanagan-Similkameen	53	8	61	2	0	1	8
23 Peace River-Liard	34	3	37	0	0	0	4
24 Powell River	19	2	21	0	1	0	3
25 Skeena-Queen Charlotte	23	6	29	0	0	0	4
26 Squamish-Lillooet	18	2	20	1	0	0	1
27 Stikine	4	0	4	0	0	0	0
28 Sunshine Coast	15	4	19	0	0	0	2
29 Thompson-Nicola	77	15	92	6	1	0	11
<b>Metropolitan - Subtotal</b>	<b>1,556</b>	<b>267</b>	<b>1,823</b>	<b>204</b>	<b>20</b>	<b>40</b>	<b>161</b>
3 Capital	317	40	357	42	7	6	31
16 Greater Vancouver	1,239	227	1,466	162	13	34	130
<b>TOTAL</b>	<b>2,596</b>	<b>448</b>	<b>3,044</b>	<b>250</b>	<b>30</b>	<b>48</b>	<b>271</b>

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

<sup>2</sup> Includes the old specialty designation Public Health.

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

<sup>4</sup> Includes Paediatric General Surgery.

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... continued



**Table 7**  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Internal Medicine<sup>2</sup></u>	<u>Medical Microbiology</u>	<u>Neurology</u>	<u>Neuro- psychiatry</u>	<u>Neurosurgery</u>	<u>Nuclear Medicine</u>
<b>Non-Metropolitan - Subtotal</b>	<b>74</b>	<b>2</b>	<b>7</b>	<b>0</b>	<b>3</b>	<b>0</b>
1 Alberni-Clayoquot	1	0	0	0	0	0
2 Bulkley-Nechako	0	0	0	0	0	0
4 Cariboo	2	0	0	0	0	0
5 Central Coast	0	0	0	0	0	0
6 Central Fraser Valley	7	0	0	0	0	0
7 Central Kootenay	2	0	0	0	0	0
8 Central Okanagan	11	0	2	0	1	0
9 Columbia-Shuswap	1	0	0	0	0	0
10 Comox-Strathcona	4	0	0	0	0	0
11 Cowichan Valley	4	0	0	0	0	0
12 Dewdney-Alouette	1	0	0	0	0	0
13 East Kootenay	4	0	0	0	0	0
14 Fraser-Cheam	1	0	0	0	0	0
15 Fraser-Fort George	4	0	1	0	0	0
17 Kitimat-Stikine	1	0	0	0	0	0
18 Kootenay Boundary	5	0	0	0	0	0
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	5	0	1	0	0	0
21 North Okanagan	5	1	0	0	0	0
22 Okanagan-Similkameen	5	0	2	0	0	0
23 Peace River-Liard	2	0	0	0	0	0
24 Powell River	1	0	0	0	0	0
25 Skeena-Queen Charlotte	1	0	0	0	0	0
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	7	1	1	0	2	0
<b>Metropolitan - Subtotal</b>	<b>317</b>	<b>11</b>	<b>40</b>	<b>1</b>	<b>21</b>	<b>3</b>
3 Capital	47	0	4	0	5	0
16 Greater Vancouver	270	11	36	1	16	3
<b>TOTAL</b>	<b>391</b>	<b>13</b>	<b>47</b>	<b>1</b>	<b>24</b>	<b>3</b>

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

<sup>2</sup> Includes Cardiology, Clinical Immunology, Gastroenterology, Haematology, Respiratory Medicine, Geriatric Medicine and Rheumatology.

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... continued

**Table 7**  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Obstetrics &amp; Gynaecology</u>	<u>Ophthalmology</u>	<u>Orthopaedic Surgery</u>	<u>Otolaryngology</u>	<u>Paediatrics<sup>2</sup></u>	<u>Pathology<sup>3</sup></u>	<u>Physical Medicine</u>
<b>Non-Metropolitan - Subtotal</b>	<b>43</b>	<b>41</b>	<b>34</b>	<b>18</b>	<b>35</b>	<b>32</b>	<b>3</b>
1 Alberni-Clayoquot	1	0	0	0	0	1	0
2 Bulkley-Nechako	0	0	0	0	0	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	6	2	3	3	2	0
7 Central Kootenay	0	1	1	0	1	1	0
8 Central Okanagan	4	5	4	2	3	3	2
9 Columbia-Shuswap	0	0	0	0	1	0	0
10 Comox-Strathcona	3	1	3	2	1	1	0
11 Cowichan Valley	3	2	2	1	1	0	0
12 Dewdney-Alouette	1	1	2	0	0	1	0
13 East Kootenay	0	1	1	1	1	0	0
14 Fraser-Cheam	2	2	2	1	1	3	0
15 Fraser-Fort George	4	3	2	2	3	5	0
17 Kitimat-Stikine	1	0	1	0	1	2	0
18 Kootenay Boundary	1	1	1	0	1	1	0
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	6	7	5	2	3	4	0
21 North Okanagan	2	4	2	1	2	1	0
22 Okanagan-Similkameen	3	3	1	1	3	2	0
23 Peace River-Liard	1	0	1	0	0	0	0
24 Powell River	1	1	0	0	1	0	0
25 Skeena-Queen Charlotte	1	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	0	0	0	0	0	0	0
29 Thompson-Nicola	6	3	4	2	8	5	1
<b>Metropolitan - Subtotal</b>	<b>110</b>	<b>103</b>	<b>84</b>	<b>49</b>	<b>132</b>	<b>92</b>	<b>21</b>
3 Capital	15	22	14	8	14	15	4
16 Greater Vancouver	95	81	70	41	118	77	17
<b>TOTAL</b>	<b>153</b>	<b>144</b>	<b>118</b>	<b>67</b>	<b>167</b>	<b>124</b>	<b>24</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.

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... continued

**Table 7**  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Plastic Surgery</u>	<u>Psychiatry</u>	<u>Radiology<sup>2</sup></u>	<u>Thoracic Surgery<sup>3</sup></u>	<u>Urology</u>	<u>Specialty Subtotal</u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>7</b>	<b>46</b>	<b>72</b>	<b>2</b>	<b>16</b>	<b>609</b>	<b>1,830</b>
1 Alberni-Clayoquot	0	0	1	0	0	7	34
2 Bulkley-Nechako	0	0	0	0	0	4	34
4 Cariboo	0	0	6	0	0	17	66
5 Central Coast	0	0	0	0	0	0	7
6 Central Fraser Valley	0	7	5	0	2	51	146
7 Central Kootenay	0	0	1	0	0	12	63
8 Central Okanagan	2	7	6	2	2	73	146
9 Columbia-Shuswap	0	2	1	0	0	7	47
10 Comox-Strathcona	0	2	5	0	0	33	98
11 Cowichan Valley	0	4	2	0	1	25	75
12 Dewdney-Alouette	0	2	3	0	0	17	81
13 East Kootenay	0	0	5	0	0	20	74
14 Fraser-Cheam	1	3	4	0	1	26	81
15 Fraser-Fort George	0	0	5	0	2	45	119
17 Kitimat-Stikine	0	0	1	0	1	12	45
18 Kootenay Boundary	1	1	1	0	0	17	56
19 Mount Waddington	0	0	0	0	0	0	13
20 Nanaimo	1	5	6	0	1	59	133
21 North Okanagan	0	4	4	0	1	37	82
22 Okanagan-Similkameen	0	2	4	0	2	39	100
23 Peace River-Liard	0	1	3	0	0	12	49
24 Powell River	0	2	1	0	0	11	32
25 Skeena-Queen Charlotte	0	0	1	0	0	7	36
26 Squamish-Lillooet	0	0	0	0	0	2	22
27 Stikine	0	0	0	0	0	0	4
28 Sunshine Coast	0	0	1	0	1	4	23
29 Thompson-Nicola	2	4	6	0	2	72	164
<b>Metropolitan - Subtotal</b>	<b>30</b>	<b>241</b>	<b>154</b>	<b>16</b>	<b>44</b>	<b>1,894</b>	<b>3,717</b>
3 Capital	4	36	30	4	9	317	674
16 Greater Vancouver	26	205	124	12	35	1,577	3,043
<b>TOTAL</b>	<b>37</b>	<b>287</b>	<b>226</b>	<b>18</b>	<b>60</b>	<b>2,503</b>	<b>5,547<sup>4</sup></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.

<sup>4</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

Table 8

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>General Practice</u>	<u>Family Practice</u>	<u>General Practice Subtotal</u>	<u>Anaesthesia</u>	<u>Community Medicine<sup>2</sup></u>	<u>Dermatology<sup>3</sup></u>	<u>General Surgery<sup>4</sup></u>
<b>Non-Metropolitan - Subtotal</b>	<b>7.56</b>	<b>1.32</b>	<b>8.87</b>	<b>0.33</b>	<b>0.07</b>	<b>0.06</b>	<b>0.80</b>
1 Alberni-Clayoquot	7.27	0.91	8.17	0.30	0.0	0.0	0.61
2 Bulkley-Nechako	6.24	1.25	7.49	0.25	0.0	0.0	0.75
4 Cariboo	6.80	1.13	7.93	0.0	0.16	0.0	0.97
5 Central Coast	15.89	6.36	22.25	0.0	0.0	0.0	0.0
6 Central Fraser Valley	6.63	1.15	7.77	0.33	0.0	0.08	0.57
7 Central Kootenay	7.92	1.70	9.62	0.19	0.19	0.0	0.57
8 Central Okanagan	6.33	1.92	8.25	0.79	0.11	0.11	0.90
9 Columbia-Shuswap	8.14	1.44	9.58	0.24	0.0	0.0	0.24
10 Comox-Strathcona	8.35	0.70	9.05	0.56	0.28	0.0	0.70
11 Cowichan Valley	8.26	0.92	9.18	0.37	0.0	0.18	0.37
12 Dewdney-Alouette	8.29	1.72	10.01	0.31	0.16	0.0	0.47
13 East Kootenay	8.95	0.72	9.67	0.18	0.0	0.0	1.07
14 Fraser-Cheam	8.07	1.37	9.44	0.17	0.0	0.0	0.69
15 Fraser-Fort George	6.65	1.29	7.94	0.43	0.0	0.11	0.97
17 Kitimat-Stikine	5.88	1.58	7.46	0.23	0.0	0.0	0.68
18 Kootenay Boundary	11.07	0.60	11.67	0.0	0.0	0.0	1.20
19 Mount Waddington	7.73	0.64	8.37	0.0	0.0	0.0	0.0
20 Nanaimo	7.94	1.24	9.18	0.62	0.12	0.25	0.62
21 North Okanagan	5.66	2.30	7.96	0.35	0.18	0.18	1.06
22 Okanagan-Similkameen	9.01	1.36	10.37	0.34	0.0	0.17	1.36
23 Peace River-Liard	5.74	0.51	6.25	0.0	0.0	0.0	0.68
24 Powell River	9.73	1.02	10.76	0.0	0.51	0.0	1.54
25 Skeena-Queen Charlotte	9.23	2.41	11.64	0.0	0.0	0.0	1.61
26 Squamish-Lillooet	9.19	1.02	10.21	0.51	0.0	0.0	0.51
27 Stikine	19.50	0.0	19.50	0.0	0.0	0.0	0.0
28 Sunshine Coast	9.56	2.55	12.11	0.0	0.0	0.0	1.27
29 Thompson-Nicola	7.31	1.42	8.74	0.57	0.09	0.0	1.04
<b>Metropolitan - Subtotal</b>	<b>10.78</b>	<b>1.85</b>	<b>12.63</b>	<b>1.41</b>	<b>0.14</b>	<b>0.28</b>	<b>1.12</b>
3 Capital	12.52	1.58	14.10	1.66	0.28	0.24	1.22
16 Greater Vancouver	10.41	1.91	12.32	1.36	0.11	0.29	1.09
<b>TOTAL</b>	<b>9.21</b>	<b>1.59</b>	<b>10.79</b>	<b>0.89</b>	<b>0.11</b>	<b>0.17</b>	<b>0.96</b>

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

<sup>2</sup> Includes the old specialty designation Public Health.

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

<sup>4</sup> Includes Paediatric General Surgery.

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... continued

**Table 8**  
(Continued)

**Non-Postgraduate Physicians' in British Columbia**  
**per 10,000 Population by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Internal Medicine<sup>1</sup></u>	<u>Medical Microbiology</u>	<u>Neurology</u>	<u>Neuro- psychiatry</u>	<u>Neurosurgery</u>	<u>Nuclear Medicine</u>
<b>Non-Metropolitan - Subtotal</b>	<b>0.54</b>	<b>0.01</b>	<b>0.05</b>	<b>0.0</b>	<b>0.02</b>	<b>0.0</b>
1 Alberni-Clayoquot	0.30	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
4 Cariboo	0.32	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
6 Central Fraser Valley	0.57	0.0	0.0	0.0	0.0	0.0
7 Central Kootenay	0.38	0.0	0.0	0.0	0.0	0.0
8 Central Okanagan	1.24	0.0	0.23	0.0	0.11	0.0
9 Columbia-Shuswap	0.24	0.0	0.0	0.0	0.0	0.0
10 Comox-Strathcona	0.56	0.0	0.0	0.0	0.0	0.0
11 Cowichan Valley	0.73	0.0	0.0	0.0	0.0	0.0
12 Dewdney-Alouette	0.16	0.0	0.0	0.0	0.0	0.0
13 East Kootenay	0.72	0.0	0.0	0.0	0.0	0.0
14 Fraser-Cheam	0.17	0.0	0.0	0.0	0.0	0.0
15 Fraser-Fort George	0.43	0.0	0.11	0.0	0.0	0.0
17 Kitimat-Stikine	0.23	0.0	0.0	0.0	0.0	0.0
18 Kootenay Boundary	1.50	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
20 Nanaimo	0.62	0.0	0.12	0.0	0.0	0.0
21 North Okanagan	0.88	0.18	0.0	0.0	0.0	0.0
22 Okanagan-Similkameen	0.85	0.0	0.34	0.0	0.0	0.0
23 Peace River-Liard	0.34	0.0	0.0	0.0	0.0	0.0
24 Powell River	0.51	0.0	0.0	0.0	0.0	0.0
25 Skeena-Queen Charlotte	0.40	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
27 Stikine	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
29 Thompson-Nicola	0.66	0.09	0.09	0.0	0.19	0.0
<b>Metropolitan - Subtotal</b>	<b>2.20</b>	<b>0.08</b>	<b>0.28</b>	<b>0.01</b>	<b>0.15</b>	<b>0.02</b>
3 Capital	1.86	0.0	0.16	0.0	0.20	0.0
16 Greater Vancouver	2.27	0.09	0.30	0.01	0.13	0.03
<b>TOTAL</b>	<b>1.39</b>	<b>0.05</b>	<b>0.17</b>	<b>0.00</b>	<b>0.09</b>	<b>0.01</b>

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

<sup>2</sup> Includes Cardiology, Clinical Immunology, Gastroenterology, Haematology, Respiratory Medicine, Geriatric Medicine and Rheumatology.

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... continued

Table 8  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>		<u>Obstetrics &amp; Gynaecology</u>	<u>Ophthalmology</u>	<u>Orthopaedic Surgery</u>	<u>Otolaryngology</u>	<u>Paediatrics<sup>2</sup></u>	<u>Pathology<sup>3</sup></u>	<u>Physical Medicine</u>
<b>Non-Metropolitan - Subtotal</b>		<b>0.31</b>	<b>0.30</b>	<b>0.25</b>	<b>0.13</b>	<b>0.25</b>	<b>0.23</b>	<b>0.02</b>
1	Alberni-Clayoquot	0.30	0.0	0.0	0.0	0.0	0.30	0.0
2	Bulkley-Nechako	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	Cariboo	0.16	0.0	0.0	0.0	0.16	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	0.16	0.49	0.16	0.25	0.25	0.16	0.0
7	Central Kootenay	0.0	0.19	0.19	0.0	0.19	0.19	0.0
8	Central Okanagan	0.45	0.57	0.45	0.23	0.34	0.34	0.23
9	Columbia-Shuswap	0.0	0.0	0.0	0.0	0.24	0.0	0.0
10	Comox-Strathcona	0.42	0.14	0.42	0.28	0.14	0.14	0.0
11	Cowichan Valley	0.55	0.37	0.37	0.18	0.18	0.0	0.0
12	Dewdney-Alouette	0.16	0.16	0.31	0.0	0.0	0.16	0.0
13	East Kootenay	0.0	0.18	0.18	0.18	0.18	0.0	0.0
14	Fraser-Cheam	0.34	0.34	0.34	0.17	0.17	0.51	0.0
15	Fraser-Fort George	0.43	0.32	0.21	0.21	0.32	0.54	0.0
17	Kitimat-Stikine	0.23	0.0	0.23	0.0	0.23	0.45	0.0
18	Kootenay Boundary	0.30	0.30	0.30	0.0	0.30	0.30	0.0
19	Mount Waddington	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	Nanaimo	0.74	0.87	0.62	0.25	0.37	0.50	0.0
21	North Okanagan	0.35	0.71	0.35	0.18	0.35	0.18	0.0
22	Okanagan-Similkameen	0.51	0.51	0.17	0.17	0.51	0.34	0.0
23	Peace River-Liard	0.17	0.0	0.17	0.0	0.0	0.0	0.0
24	Powell River	0.51	0.51	0.0	0.0	0.51	0.0	0.0
25	Skeena-Queen Charlotte	0.40	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	0.57	0.28	0.38	0.19	0.76	0.47	0.09
<b>Metropolitan - Subtotal</b>		<b>0.76</b>	<b>0.71</b>	<b>0.58</b>	<b>0.34</b>	<b>0.91</b>	<b>0.64</b>	<b>0.15</b>
3	Capital	0.59	0.87	0.55	0.32	0.55	0.59	0.16
16	Greater Vancouver	0.80	0.68	0.59	0.34	0.99	0.65	0.14
<b>TOTAL</b>		<b>0.54</b>	<b>0.51</b>	<b>0.42</b>	<b>0.24</b>	<b>0.59</b>	<b>0.44</b>	<b>0.09</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.

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... continued

**Table 8**  
(Continued)

**Non-Postgraduate Physicians<sup>1</sup> in British Columbia**  
**per 10,000 Population by MSC Specialty by Regional Hospital District**  
**September 1983**

<u>Regional Hospital District</u>	<u>Plastic Surgery</u>	<u>Psychiatry</u>	<u>Radiology<sup>2</sup></u>	<u>Thoracic Surgery<sup>3</sup></u>	<u>Urology</u>	<u>Specialty Subtotal</u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>0.05</b>	<b>0.33</b>	<b>0.52</b>	<b>0.01</b>	<b>0.12</b>	<b>4.42</b>	<b>13.30</b>
1 Alberni-Clayoquot	0.0	0.0	0.30	0.0	0.0	2.12	10.29
2 Bulkley-Nechako	0.0	0.0	0.0	0.0	0.0	1.00	8.49
4 Cariboo	0.0	0.0	0.97	0.0	0.0	2.75	10.68
5 Central Coast	0.0	0.0	0.0	0.0	0.0	0.0	22.25
6 Central Fraser Valley	0.0	0.57	0.41	0.0	0.16	4.17	11.94
7 Central Kootenay	0.0	0.0	0.19	0.0	0.0	2.26	11.88
8 Central Okanagan	0.23	0.79	0.68	0.23	0.23	8.25	16.50
9 Columbia-Shuswap	0.0	0.48	0.24	0.0	0.0	1.68	11.25
10 Comox-Strathcona	0.0	0.28	0.70	0.0	0.0	4.59	13.65
11 Cowichan Valley	0.0	0.73	0.37	0.0	0.18	4.59	13.77
12 Dewdney-Alouette	0.0	0.31	0.47	0.0	0.0	2.66	12.67
13 East Kootenay	0.0	0.0	0.90	0.0	0.0	3.58	13.25
14 Fraser-Cheam	0.17	0.51	0.69	0.0	0.17	4.46	13.90
15 Fraser-Fort George	0.0	0.0	0.54	0.0	0.21	4.83	12.77
17 Kitimat-Stikine	0.0	0.0	0.23	0.0	0.23	2.71	10.18
18 Kootenay Boundary	0.30	0.30	0.30	0.0	0.0	5.09	16.75
19 Mount Waddington	0.0	0.0	0.0	0.0	0.0	0.0	8.37
20 Nanaimo	0.12	0.62	0.74	0.0	0.12	7.32	16.51
21 North Okanagan	0.0	0.71	0.71	0.0	0.18	6.55	14.51
22 Okanagan-Similkameen	0.0	0.34	0.68	0.0	0.34	6.63	17.01
23 Peace River-Liard	0.0	0.17	0.51	0.0	0.0	2.03	8.28
24 Powell River	0.0	1.02	0.51	0.0	0.0	5.63	16.39
25 Skeena-Queen Charlotte	0.0	0.0	0.40	0.0	0.0	2.81	14.45
26 Squamish-Lillooet	0.0	0.0	0.0	0.0	0.0	1.02	11.23
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0	19.50
28 Sunshine Coast	0.0	0.0	0.64	0.0	0.64	2.55	14.66
29 Thompson-Nicola	0.19	0.38	0.57	0.0	0.19	6.84	15.58
<b>Metropolitan - Subtotal</b>	<b>0.21</b>	<b>1.67</b>	<b>1.07</b>	<b>0.11</b>	<b>0.30</b>	<b>13.12</b>	<b>25.75</b>
3 Capital	0.16	1.42	1.18	0.16	0.36	12.52	26.62
16 Greater Vancouver	0.22	1.72	1.04	0.10	0.29	13.25	25.56
<b>TOTAL</b>	<b>0.13</b>	<b>1.02</b>	<b>0.80</b>	<b>0.06</b>	<b>0.21</b>	<b>8.88</b>	<b>19.67<sup>4</sup></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.

<sup>4</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

Table 9

**Analysis of Change in the Number of Non-Postgraduate Physicians<sup>1</sup>**  
**in British Columbia by Place of Graduation by Regional Hospital District**  
**September 1981 to September 1983**

Regional Hospital District	1981 <sup>1</sup>	New Registrants <sup>2</sup> by Place of Graduation					Re-Act <sup>4</sup>		Attr'n <sup>5</sup>	Migr'n <sup>5</sup>	1983 <sup>7</sup>
		U.B.C.	O.Can. <sup>6</sup>	U.K.	Other	Total	PG-NPG	Other			
<b>Non-Metropolitan - Subtotal</b>	<b>1,737</b>	<b>22</b>	<b>64</b>	<b>26</b>	<b>22</b>	<b>134</b>	<b>33</b>	<b>51</b>	<b>127</b>	<b>2</b>	<b>1,830</b>
1 Alberni-Clayoquot	30	0	1	0	0	1	1	2	0	0	34
2 Bulkley-Nechako	34	0	1	0	0	1	0	2	3	0	34
4 Cariboo	56	1	9	3	0	13	3	0	4	-2	66
5 Central Coast	7	1	0	0	0	1	0	1	2	0	7
6 Central Fraser Valley	138	2	3	3	2	10	2	2	7	1	146
7 Central Kootenay	60	0	1	1	0	2	2	4	4	-1	63
8 Central Okanagan	143	1	8	0	2	11	2	3	15	2	146
9 Columbia-Shuswap	41	0	6	0	1	7	2	1	2	-2	47
10 Comox-Strathcona	96	1	2	1	0	4	1	0	6	3	98
11 Cowichan Valley	69	1	4	2	2	9	2	1	6	0	75
12 Dewdney-Alouette	71	0	2	1	0	3	4	4	3	2	81
13 East Kootenay	69	1	3	1	0	5	0	6	6	0	74
14 Fraser-Cheam	76	0	3	1	0	4	0	1	5	5	81
15 Fraser-Fort George	115	3	4	2	2	11	1	1	8	-1	119
17 Kitimat-Stikine	50	0	0	0	3	3	0	1	5	-4	45
18 Kootenay Boundary	53	2	2	1	2	7	1	2	4	-3	56
19 Mount Waddington	13	0	3	0	0	3	1	1	3	-2	13
20 Nanaimo	124	1	4	3	1	9	0	3	8	5	133
21 North Okanagan	78	2	0	0	0	2	3	2	6	3	82
22 Okanagan-Similkameen	90	2	0	4	1	7	0	5	3	1	100
23 Peace River-Liard	52	0	1	1	2	4	3	1	8	-3	49
24 Powell River	33	2	0	0	0	2	0	1	2	-2	32
25 Skeena-Queen Charlotte	35	0	3	0	0	3	2	2	3	-3	36
26 Squamish-Lillooet	20	1	0	0	1	2	1	0	1	0	22
27 Stikine	2	0	1	0	0	1	0	1	1	1	4
28 Sunshine Coast	21	0	0	0	0	0	0	2	3	3	23
29 Thompson-Nicola	161	1	3	2	3	9	2	2	9	-1	164
<b>Metropolitan - Subtotal</b>	<b>3,499</b>	<b>56</b>	<b>122</b>	<b>24</b>	<b>43</b>	<b>245</b>	<b>148</b>	<b>96</b>	<b>269</b>	<b>-2</b>	<b>3,717</b>
3 Capital	640	7	29	12	4	52	15	20	56	3	674
16 Greater Vancouver	2,859	49	93	12	39	193	133	76	213	-5	3,043
<b>TOTAL</b>	<b>5,236</b>	<b>78</b>	<b>186</b>	<b>50</b>	<b>65</b>	<b>379</b>	<b>181</b>	<b>147</b>	<b>396</b>	<b>0</b>	<b>5,547<sup>7</sup></b>

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

<sup>2</sup> Physicians who were Non-Postgraduate in B.C. in September 1983 and whose initial registration with the CPSBC fell after September 1981.

<sup>3</sup> Number of Non-Postgraduate Physicians in B.C. in September 1981.

<sup>4</sup> In 1981 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 1983 they were Non-Postgraduate in B.C.

<sup>5</sup> Physicians who were Non-Postgraduate in B.C. in September 1981 but not in September 1983.

<sup>6</sup> Net effect of intra-provincial migration.

<sup>7</sup> Number of Non-Postgraduate Physicians in B.C. in September 1983.

<sup>8</sup> Other Canada.

<sup>9</sup> Excludes 16 physicians who have completed their postgraduate work and would be classified as Non-Postgraduate on payment of dues.

Prepared by:

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The University of British Columbia





## **PHYSIOTHERAPISTS**



## PHYSIOTHERAPISTS

**Definition:** A physiotherapist:

"Plans and carries out programs of physical treatment, in consultation with physician and other health care workers, to rehabilitate injured or disabled patients:

Administers muscle, nerve, joint and functional ability tests to identify physical problems of patient. Assesses patients' symptoms and capabilities. Directs and aids patients individually or in groups, in exercises designed to assist in muscle restoration and joint mobility. Guides patient in remedial activities involving use of parallel bars, weights, traction and other equipment. Gives whirlpool and contrast baths and applies moist packs. Administers treatments, using diathermy, ultrasonic and microwave machines, infra-red and ultra-violet lamps, low voltage generators and other electro-therapeutic equipment. Instructs patients and their families in procedures to be continued at home. Records treatments given and patients' responses and progress."<sup>1</sup>

**Date of Record:** October 1981 and November 1983.

**Source of Data:** Association of Physiotherapists and Massage Practitioners of British Columbia (APMPBC).<sup>2</sup>

**Preparation and Updating:**

Notification of new registrants or changes in location or registration status are received three times a year by the Health Manpower Research Unit. These updates, after careful editing and reconciliation of inconsistencies, are entered into PHTFILE, a dynamic computer-based file.

The Health Manpower Research Unit, in cooperation with the Association, distributed a questionnaire and a computer-produced biography to update personal data and employment information. The final response rate (February 1984) was 73.55%.

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

Major Group 31, No. 3137-122, p. 56, Ottawa: Employment and Immigration Canada.

<sup>2</sup> In order to practice as a physiotherapist in British Columbia, it is necessary to be registered by the Association of Physiotherapists and Massage Practitioners of British Columbia.

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

A physiotherapist may be either a *Chartered* or *Registered* member of the APMPBC.

The tables include physiotherapists who were B.C. residents at the date of record.

**2. Employment Status**

Employment status was reported by respondents to the 1983 questionnaire. The categories used in Table 3 are:

- (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

**3. Type of Employing Institution**

Type of principal employing institution was reported by respondents to the 1983 questionnaire. The categories used in Table 4 are:

- (a) General Hospital
- (b) Children's Hospital
- (c) Rehabilitation Hospital/Centre
- (d) Extended Care Hospital
- (e) Long Term Care Facility
- (f) Centre for the Retarded
- (g) Psychiatric/Mental Hospital
- (h) Workers' Compensation Board
- (i) Diagnostic & Treatment Centre
- (j) Voluntary Agency - Children
- (k) Voluntary Agency - Adults
- (l) Voluntary Agency - Children & Adults
- (m) Private Practice
- (n) Health District
- (o) University/College
- (p) Other

#### 4. Area of Service

Principal area of service was reported by respondents to the 1983 questionnaire. The categories used in Table 5 are:

- (a) Acute Care - In-patient
- (b) Extended Care - In-patient
- (c) Out-patient - General
- (d) Psychiatry (In or Out-patient)
- (e) Home Care Services
- (f) Administration
- (g) Rehabilitation (In or Out-patient)
- (h) Research
- (i) Administration and Patient Care
- (j) Home Service and Other Patient Care
- (k) Teaching
- (l) Other

#### 5. Type of Position

Principal type of position was reported by respondents to the 1983 questionnaire. The categories used in Table 6 are:

- (a) Staff Therapist
- (b) Senior Therapist
- (c) Sole Charge
- (d) Assistant Supervisor
- (e) Supervisor
- (f) Program Coordinator/Director
- (g) Owner/Partner
- (h) Teacher/Professor/Lecturer
- (i) Consultant
- (j) Other

#### NOTE:

Physiotherapists who hold membership in the British Columbia Society of Occupational Therapists are included in both the physiotherapy and occupational therapy sections of *ROLLCALL 83*.

*Physiotherapists  
per 10,000 Population  
by Regional Hospital District  
November 1983*

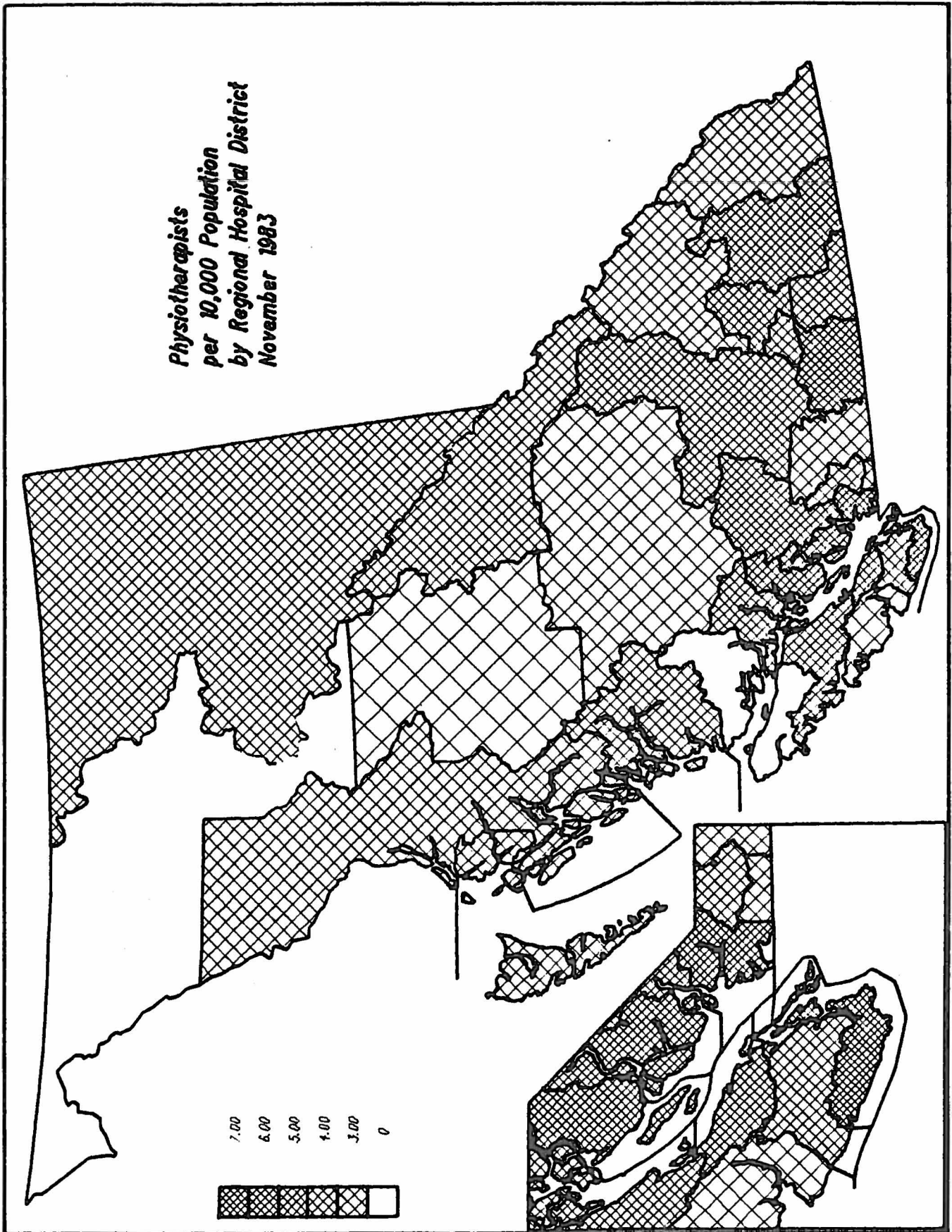


Table 1

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

## by Regional Hospital District

October 1981 and November 1983

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change <sup>2</sup>	
	1981	1983	1981	1983	Number <sup>3</sup>	Ratio <sup>4</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>434</b>	<b>447</b>	<b>3.28</b>	<b>3.25</b>	<b>1.43</b>	<b>-0.40</b>
1 Alberni-Clayoquot	5	5	1.54	1.51	*	*
2 Bulkley-Nechako	4	4	1.04	1.00	*	*
4 Cariboo	9	10	1.52	1.62	*	*
5 Central Coast	1	1	3.28	3.18	*	*
6 Central Fraser Valley	30	28	2.61	2.29	-3.26	-6.04
7 Central Kootenay	21	24	4.03	4.53	6.62	5.68
8 Central Okanagan	31	32	3.64	3.62	1.54	-0.27
9 Columbia-Shuswap	10	10	2.49	2.39	0.00	-1.89
10 Comox-Strathcona	28	29	4.08	4.04	1.70	-0.50
11 Cowichan Valley	18	18	3.42	3.30	0.00	-1.58
12 Dewdney-Alouette	11	20	1.77	3.13	33.24	31.30
13 East Kootenay	11	14	2.05	2.51	12.27	10.19
14 Fraser-Cheam	16	13	2.81	2.23	-9.49	-10.48
15 Fraser-Fort George	31	29	3.47	3.11	-3.15	-5.06
17 Kitimat-Stikine	12	10	2.83	2.26	-8.38	-10.21
18 Kootenay Boundary	15	13	4.51	3.89	-6.64	-6.90
19 Mount Waddington	2	0	1.36	0.0	*	*
20 Nanaimo	33	37	4.28	4.59	5.65	3.44
21 North Okanagan	24	25	4.42	4.42	1.98	0.08
22 Okanagan-Similkameen	30	33	5.25	5.61	4.68	3.29
23 Peace River-Liard	14	17	2.52	2.87	9.77	6.40
24 Powell River	13	10	6.71	5.12	-11.83	-12.17
25 Skeena-Queen Charlotte	6	6	2.50	2.41	*	*
26 Squamish-Lillooet	6	9	3.17	4.60	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	7	8	4.52	5.10	*	*
29 Thompson-Nicola	46	42	4.51	3.99	-4.27	-5.73
<b>Metropolitan - Subtotal</b>	<b>840</b>	<b>865</b>	<b>5.92</b>	<b>5.99</b>	<b>1.42</b>	<b>0.60</b>
3 Capital	151	166	6.05	6.56	4.65	3.90
16 Greater Vancouver	689	699	5.89	5.87	0.69	-0.14
<b>TOTAL</b>	<b>1,274</b>	<b>1,312</b>	<b>4.64</b>	<b>4.65</b>	<b>1.42</b>	<b>0.11</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> 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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The University of British Columbia



Table 2

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Registration Status by Regional Hospital District**  
**November 1983**

Regional Hospital District	Number			Number per 10,000 Population		
	Chartered	Registered	Total	Chartered	Registered	Total
<b>Non-Metropolitan - Subtotal</b>	<b>409</b>	<b>38</b>	<b>447</b>	<b>2.97</b>	<b>0.28</b>	<b>3.25</b>
1 Alberni-Clayoquot	5	0	5	1.51	0.0	1.51
2 Bulkley-Nechako	4	0	4	1.00	0.0	1.00
4 Cariboo	10	0	10	1.62	0.0	1.62
5 Central Coast	1	0	1	3.18	0.0	3.18
6 Central Fraser Valley	27	1	28	2.21	0.08	2.29
7 Central Kootenay	24	0	24	4.53	0.0	4.53
8 Central Okanagan	24	8	32	2.71	0.90	3.62
9 Columbia-Shuswap	10	0	10	2.39	0.0	2.39
10 Comox-Strathcona	29	0	29	4.04	0.0	4.04
11 Cowichan Valley	11	7	18	2.02	1.28	3.30
12 Dewdney-Alouette	15	5	20	2.35	0.78	3.13
13 East Kootenay	14	0	14	2.51	0.0	2.51
14 Fraser-Cheam	13	0	13	2.23	0.0	2.23
15 Fraser-Fort George	28	1	29	3.00	0.11	3.11
17 Kitimat-Stikine	10	0	10	2.26	0.0	2.26
18 Kootenay Boundary	13	0	13	3.89	0.0	3.89
19 Mount Waddington	0	0	0	0.0	0.0	0.0
20 Nanaimo	33	4	37	4.10	0.50	4.59
21 North Okanagan	23	2	25	4.07	0.35	4.42
22 Okanagan-Similkameen	27	6	33	4.59	1.02	5.61
23 Peace River-Liard	17	0	17	2.87	0.0	2.87
24 Powell River	9	1	10	4.61	0.51	5.12
25 Skeena-Queen Charlotte	6	0	6	2.41	0.0	2.41
26 Squamish-Lillooet	7	2	9	3.57	1.02	4.60
27 Stikine	0	0	0	0.0	0.0	0.0
28 Sunshine Coast	8	0	8	5.10	0.0	5.10
29 Thompson-Nicola	41	1	42	3.89	0.09	3.99
<b>Metropolitan - Subtotal</b>	<b>800</b>	<b>65</b>	<b>865</b>	<b>5.54</b>	<b>0.45</b>	<b>5.99</b>
3 Capital	152	14	166	6.00	0.55	6.56
16 Greater Vancouver	648	51	699	5.44	0.43	5.87
<b>TOTAL</b>	<b>1,209</b>	<b>103</b>	<b>1,312</b>	<b>4.29</b>	<b>0.37</b>	<b>4.65</b>

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

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Table 3

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Employment Status by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>	<u>Employed in PT</u>	<u>Employed in OT</u>	<u>Combined OT/PT</u>	<u>Employed Other</u>	<u>Not Employed</u>	<u>Not Applicable<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>294</b>	<b>5</b>	<b>25</b>	<b>5</b>	<b>21</b>	<b>97</b>	<b>447</b>
1 Alberni-Clayoquot	4	0	1	0	0	0	5
2 Bulkley-Nechako	4	0	0	0	0	0	4
4 Cariboo	9	0	0	0	0	1	10
5 Central Coast	0	0	1	0	0	0	1
6 Central Fraser Valley	15	0	0	0	1	12	28
7 Central Kootenay	15	1	1	0	2	5	24
8 Central Okanagan	20	2	0	1	2	7	32
9 Columbia-Shuswap	8	0	0	0	1	1	10
10 Comox-Strathcona	17	0	7	1	2	2	29
11 Cowichan Valley	9	0	2	0	1	6	18
12 Dewdney-Alouette	14	1	2	0	1	2	20
13 East Kootenay	11	0	0	0	1	2	14
14 Fraser-Cheam	6	0	1	0	0	6	13
15 Fraser-Fort George	17	0	2	0	2	8	29
17 Kitimat-Stikine	3	0	1	0	1	5	10
18 Kootenay Boundary	9	0	0	0	0	4	13
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	26	0	0	0	2	9	37
21 North Okanagan	20	1	2	1	1	0	25
22 Okanagan-Similkameen	25	0	0	0	1	7	33
23 Peace River-Liard	8	0	4	0	1	4	17
24 Powell River	9	0	0	0	0	1	10
25 Skeena-Queen Charlotte	5	0	0	0	0	1	6
26 Squamish-Lillooet	6	0	0	0	1	2	9
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	5	0	1	0	0	2	8
29 Thompson-Nicola	29	0	0	2	1	10	42
<b>Metropolitan - Subtotal</b>	<b>509</b>	<b>5</b>	<b>39</b>	<b>15</b>	<b>40</b>	<b>257</b>	<b>865</b>
3 Capital	99	2	10	3	8	44	166
16 Greater Vancouver	410	3	29	12	32	213	699
<b>TOTAL</b>	<b>803</b>	<b>10</b>	<b>64</b>	<b>20</b>	<b>61</b>	<b>354</b>	<b>1,312</b>

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

<sup>2</sup> This category has the following breakdown:

- 347 biographies or questionnaires which were not returned or were undeliverable
- 7 non-responses to the question concerning employment status.

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Table 4

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

by Type of Principal Employing Institution by Regional Hospital District

November 1983

Regional Hospital District	Hospital				
	General	Children's	Rehabilitation	Extended & Long Term Care	Psychiatric/ Mental
<b>Non-Metropolitan - Subtotal</b>	<b>163</b>	<b>0</b>	<b>3</b>	<b>12</b>	<b>2</b>
1 Alberni-Clayoquot	2	0	0	0	0
2 Bulkley-Nechako	2	0	0	0	0
4 Cariboo	6	0	0	0	0
5 Central Coast	1	0	0	0	0
6 Central Fraser Valley	7	0	0	1	0
7 Central Kootenay	10	0	0	1	0
8 Central Okanagan	11	0	2	0	0
9 Columbia-Shuswap	6	0	0	0	0
10 Comox-Strathcona	10	0	0	1	0
11 Cowichan Valley	3	0	0	1	0
12 Dewdney-Alouette	7	0	0	0	2
13 East Kootenay	9	0	0	0	0
14 Fraser-Cheam	2	0	0	0	0
15 Fraser-Fort George	7	0	0	1	0
17 Kitimat-Stikine	3	0	0	0	0
18 Kootenay Boundary	6	0	1	0	0
19 Mount Waddington	0	0	0	0	0
20 Nanaimo	10	0	0	2	0
21 North Okanagan	10	0	0	2	0
22 Okanagan-Similkameen	11	0	0	2	0
23 Peace River-Liard	9	0	0	1	0
24 Powell River	7	0	0	0	0
25 Skeena-Queen Charlotte	4	0	0	0	0
26 Squamish-Lillooet	2	0	0	0	0
27 Stikine	0	0	0	0	0
28 Sunshine Coast	2	0	0	0	0
29 Thompson-Nicola	16	0	0	0	0
<b>Metropolitan - Subtotal</b>	<b>209</b>	<b>19</b>	<b>53</b>	<b>35</b>	<b>1</b>
3 Capital	38	5	14	11	0
16 Greater Vancouver	171	14	39	24	1
<b>TOTAL</b>	<b>372</b>	<b>19</b>	<b>56</b>	<b>47</b>	<b>3</b>

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

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... continued

Table 4  
(Continued)

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Type of Principal Employing Institution by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>	<u>Diagnostic &amp; Treatment Centre</u>	<u>Voluntary Agency</u>	<u>Health District</u>	<u>Other<sup>2</sup></u>	<u>Not Applicable<sup>3</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>10</b>	<b>15</b>	<b>15</b>	<b>98</b>	<b>129</b>	<b>447</b>
1 Alberni-Clayoquot	0	1	0	2	0	5
2 Bulkley-Nechako	1	0	0	1	0	4
4 Cariboo	0	1	0	2	1	10
5 Central Coast	0	0	0	0	0	1
6 Central Fraser Valley	0	0	1	6	13	28
7 Central Kootenay	0	0	0	6	7	24
8 Central Okanagan	0	0	2	7	10	32
9 Columbia-Shuswap	0	0	0	2	2	10
10 Comox-Strathcona	3	1	3	6	5	29
11 Cowichan Valley	1	0	2	3	8	18
12 Dewdney-Alouette	0	0	0	7	4	20
13 East Kootenay	1	0	0	1	3	14
14 Fraser-Cheam	0	0	0	5	6	13
15 Fraser-Fort George	0	3	2	5	11	29
17 Kitimat-Stikine	0	1	0	0	6	10
18 Kootenay Boundary	0	1	0	1	4	13
19 Mount Waddington	0	0	0	0	0	0
20 Nanaimo	0	2	1	11	11	37
21 North Okanagan	0	2	2	7	2	25
22 Okanagan-Similkameen	2	2	2	5	9	33
23 Peace River-Liard	1	1	0	0	5	17
24 Powell River	0	0	0	2	1	10
25 Skeena-Queen Charlotte	0	0	0	1	1	6
26 Squamish-Lillooet	1	0	0	3	3	9
27 Stikine	0	0	0	0	0	0
28 Sunshine Coast	0	0	0	2	4	8
29 Thompson-Nicola	0	0	0	13	13	42
<b>Metropolitan - Subtotal</b>	<b>15</b>	<b>4</b>	<b>29</b>	<b>180</b>	<b>320</b>	<b>865</b>
3 Capital	6	1	0	32	59	166
16 Greater Vancouver	9	3	29	148	261	699
<b>TOTAL</b>	<b>25</b>	<b>19</b>	<b>44</b>	<b>278</b>	<b>449</b>	<b>1,312</b>

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

<sup>2</sup> This category includes 174 in private practice, 22 with the Workers' Compensation Board, and 12 at universities or colleges.

<sup>3</sup> This category includes 347 biographies or questionnaires not returned or undeliverable, 61 "not employed" responses, and 41 non-responses to the question concerning principal employing institution.

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The University of British Columbia

Table 5

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Principal Area of Service by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>	<u>Acute Care</u>	<u>Extended Care</u>	<u>Out- Patient</u>	<u>Psychiatry</u>	<u>Home Care Services</u>	<u>Adminis- tration</u>	<u>Rehabi- litation</u>
<b>Non-Metropolitan - Subtotal</b>	<b>37</b>	<b>19</b>	<b>182</b>	<b>2</b>	<b>11</b>	<b>5</b>	<b>16</b>
1 Alberni-Clayoquot	0	0	3	0	0	0	0
2 Bulkley-Nechako	0	0	3	0	0	0	0
4 Cariboo	2	0	6	0	0	0	1
5 Central Coast	0	0	1	0	0	0	0
6 Central Fraser Valley	1	2	8	0	0	1	1
7 Central Kootenay	1	1	12	0	1	0	0
8 Central Okanagan	2	0	13	1	2	1	2
9 Columbia-Shuswap	0	0	8	0	0	0	0
10 Comox-Strathcona	1	2	11	0	2	0	3
11 Cowichan Valley	1	1	4	0	2	0	0
12 Dewdney-Alouette	1	1	10	1	0	0	0
13 East Kootenay	2	0	8	0	0	0	0
14 Fraser-Cheam	0	0	4	0	0	0	0
15 Fraser-Fort George	5	1	8	0	1	0	1
17 Kitimat-Stikine	0	0	2	0	0	0	1
18 Kootenay Boundary	2	0	5	0	0	1	1
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	3	2	16	0	1	1	0
21 North Okanagan	4	2	10	0	1	0	2
22 Okanagan-Similkameen	4	3	11	0	1	0	1
23 Peace River-Liard	3	2	4	0	0	0	2
24 Powell River	0	1	5	0	0	0	0
25 Skeena-Queen Charlotte	0	0	3	0	0	0	0
26 Squamish-Lillooet	0	0	6	0	0	0	0
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	1	0	2	0	0	0	0
29 Thompson-Nicola	4	1	19	0	0	1	1
<b>Metropolitan - Subtotal</b>	<b>109</b>	<b>26</b>	<b>215</b>	<b>0</b>	<b>27</b>	<b>16</b>	<b>76</b>
3 Capital	16	8	37	0	1	5	18
16 Greater Vancouver	93	18	178	0	26	11	58
<b>TOTAL</b>	<b>146</b>	<b>45</b>	<b>397</b>	<b>2</b>	<b>38</b>	<b>21</b>	<b>92</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

... continued

**Table 5**  
(Continued)

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Principal Area of Service by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>	<u>Research</u>	<u>Admin. &amp; Patient Care</u>	<u>Home Service &amp; Other Patient Care</u>	<u>Teaching</u>	<u>Other</u>	<u>Not Applicable<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>0</b>	<b>20</b>	<b>13</b>	<b>0</b>	<b>4</b>	<b>138</b>	<b>447</b>
1 Alberni-Clayoquot	0	1	0	0	0	1	5
2 Bulkley-Nechako	0	1	0	0	0	0	4
4 Cariboo	0	0	0	0	0	1	10
5 Central Coast	0	0	0	0	0	0	1
6 Central Fraser Valley	0	0	2	0	0	13	28
7 Central Kootenay	0	1	0	0	0	8	24
8 Central Okanagan	0	0	1	0	0	10	32
9 Columbia-Shuswap	0	0	0	0	0	2	10
10 Comox-Strathcona	0	1	2	0	1	6	29
11 Cowichan Valley	0	2	0	0	0	8	18
12 Dewdney-Alouette	0	2	0	0	0	5	20
13 East Kootenay	0	1	0	0	0	3	14
14 Fraser-Cheam	0	2	1	0	0	6	13
15 Fraser-Fort George	0	1	1	0	0	11	29
17 Kitimat-Stikine	0	0	0	0	0	7	10
18 Kootenay Boundary	0	0	0	0	0	4	13
19 Mount Waddington	0	0	0	0	0	0	0
20 Nanaimo	0	1	2	0	0	11	37
21 North Okanagan	0	1	1	0	1	3	25
22 Okanagan-Similkameen	0	3	1	0	0	9	33
23 Peace River-Liard	0	0	0	0	0	6	17
24 Powell River	0	1	1	0	0	2	10
25 Skeena-Queen Charlotte	0	1	0	0	1	1	6
26 Squamish-Lillooet	0	0	0	0	0	3	9
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	0	0	1	0	0	4	8
29 Thompson-Nicola	0	1	0	0	1	14	42
<b>Metropolitan - Subtotal</b>	<b>2</b>	<b>31</b>	<b>5</b>	<b>10</b>	<b>17</b>	<b>331</b>	<b>865</b>
3 Capital	0	10	2	2	5	62	166
16 Greater Vancouver	2	21	3	8	12	269	699
<b>TOTAL</b>	<b>2</b>	<b>51</b>	<b>18</b>	<b>10</b>	<b>21</b>	<b>469</b>	<b>1,312</b>

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

<sup>2</sup> This category includes 347 biographies or questionnaires not returned or undeliverable, 61 "not employed" responses, and 61 non-responses to the question concerning principal area of service.

Table 6

**Physiotherapists<sup>1</sup> in British Columbia**  
**by Principal Type of Position by Regional Hospital District**  
**November 1983**

<u>Regional Hospital District</u>	<u>Therapist<sup>2</sup></u>	<u>Sole Charge</u>	<u>Assistant/ Supervisor</u>	<u>Program Coord/ Director</u>	<u>Owner/ Partner</u>	<u>Other<sup>3</sup></u>	<u>Not Applicable<sup>4</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>158</b>	<b>48</b>	<b>19</b>	<b>13</b>	<b>60</b>	<b>10</b>	<b>139</b>	<b>447</b>
1 Alberni-Clayoquot	1	0	0	1	2	0	1	5
2 Bulkley-Nechako	0	3	0	0	1	0	0	4
4 Cariboo	4	4	1	0	0	0	1	10
5 Central Coast	0	1	0	0	0	0	0	1
6 Central Fraser Valley	8	0	1	0	5	1	13	28
7 Central Kootenay	5	6	0	1	3	1	8	24
8 Central Okanagan	12	2	0	1	7	0	10	32
9 Columbia-Shuswap	4	0	2	0	2	0	2	10
10 Comox-Strathcona	13	5	0	0	2	2	7	29
11 Cowichan Valley	3	4	0	1	2	0	8	18
12 Dewdney-Alouette	7	2	2	0	5	0	4	20
13 East Kootenay	4	3	3	0	1	0	3	14
14 Fraser-Cheam	2	0	1	1	3	0	6	13
15 Fraser-Fort George	11	2	1	1	2	1	11	29
17 Kitimat-Stikine	2	0	1	0	0	0	7	10
18 Kootenay Boundary	6	0	1	1	1	0	4	13
19 Mount Waddington	0	0	0	0	0	0	0	0
20 Nanaimo	14	3	1	1	6	1	11	37
21 North Okanagan	12	4	1	1	3	0	4	25
22 Okanagan-Similkameen	14	1	2	1	4	1	10	33
23 Peace River-Liard	8	3	0	0	0	0	6	17
24 Powell River	5	0	0	1	2	0	2	10
25 Skeena-Queen Charlotte	3	1	0	1	0	0	1	6
26 Squamish-Lillooet	1	3	0	0	2	0	3	9
27 Stikine	0	0	0	0	0	0	0	0
28 Sunshine Coast	2	0	0	0	2	1	3	8
29 Thompson-Nicola	17	1	2	1	5	2	14	42
<b>Metropolitan - Subtotal</b>	<b>360</b>	<b>19</b>	<b>27</b>	<b>22</b>	<b>85</b>	<b>21</b>	<b>331</b>	<b>865</b>
3 Capital	64	2	7	5	20	7	61	166
16 Greater Vancouver	296	17	20	17	65	14	270	699
<b>TOTAL</b>	<b>518</b>	<b>67</b>	<b>46</b>	<b>35</b>	<b>145</b>	<b>31</b>	<b>470</b>	<b>1,312</b>

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

<sup>2</sup> Includes 445 staff and 73 senior therapists.

<sup>3</sup> This category includes teachers and consultants.

<sup>4</sup> This category includes 347 biographies or questionnaires not returned or undeliverable, 62 "not employed" responses, and 61 non-responses to the question concerning principal area of service.

Prepared by:  
 Health Manpower Research 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>

Date of Record: December 1981 and December 1983.

Source of Data: British Columbia Association of Podiatrists.<sup>2</sup>

Preparation and Updating:

The table, derived from the register supplied by the British Columbia Association of Podiatrists, includes registered podiatrists who reported a B.C. 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.

<sup>2</sup>In order to practice as a podiatrist in British Columbia, it is necessary to hold a certificate of registration issued by the British Columbia Association of Podiatrists.



Table 1

**Registered Podiatrists<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1981 and December 1983**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>6</b>	<b>6</b>	<b>0.05</b>	<b>0.04</b>	<b>*</b>	<b>*</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	1	1	0.09	0.08	*	*
7 Central Kootenay	0	0	0.00	0.00	*	*
8 Central Okanagan	2	2	0.23	0.23	*	*
9 Columbia-Shuswap	1	1	0.25	0.24	*	*
10 Comox-Strathcona	0	0	0.00	0.00	*	*
11 Cowichan Valley	1	1	0.19	0.18	*	*
12 Dewdney-Alouette	0	0	0.00	0.00	*	*
13 East Kootenay	0	0	0.00	0.00	*	*
14 Fraser-Cheam	0	0	0.00	0.00	*	*
15 Fraser-Fort George	0	0	0.00	0.00	*	*
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	1	0.13	0.12	*	*
21 North Okanagan	0	0	0.00	0.00	*	*
22 Okanagan-Similkameen	0	0	0.00	0.00	*	*
23 Peace River-Liard	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	0	0	0.00	0.00	*	*
<b>Metropolitan - Subtotal</b>	<b>36</b>	<b>35</b>	<b>0.25</b>	<b>0.24</b>	<b>-1.40</b>	<b>-2.23</b>
3 Capital	8	7	0.32	0.28	*	*
16 Greater Vancouver	28	28	0.24	0.24	0.00	-0.87
<b>TOTAL</b>	<b>42</b>	<b>41</b>	<b>0.15</b>	<b>0.15</b>	<b>-1.20</b>	<b>-2.53</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 Manpower Research 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.<sup>1</sup>

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>

**Date of Record:** December 1981 and December 1983.

**Source of Data:** Canadian Board for Certification of Prosthetists and Orthotists.<sup>2</sup>

**Preparation and Updating:**

The table, derived solely from the Registry issued by the Canadian Board for Certification of Prosthetists and Orthotists, includes certified prosthetists and orthotists who reported a B.C. 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.

<sup>2</sup>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.





Table 1

**Prosthetists and Orthotists (Certified)<sup>1</sup> in British Columbia**  
**by Specialty by Regional Hospital District**  
**December 1981 and December 1983**

<u>Regional Hospital District</u>	<u>Prosthetists</u>		<u>Orthotists</u>		<u>Combined Prosthetists Orthotists</u>		<u>Total</u>	
	<u>1981</u>	<u>1983</u>	<u>1981</u>	<u>1983</u>	<u>1981</u>	<u>1983</u>	<u>1981</u>	<u>1983</u>
<b>Non-Metropolitan Subtotal</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>4</b>
6 Central Fraser Valley	0	1	0	0	0	0	0	1
8 Central Okanagan	1	1	0	0	1	1	2	2
29 Thompson-Nicola	0	0	1	1	0	0	1	1
<b>Metropolitan Subtotal</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>7</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>17</b>
3 Capital	2	3	1	1	0	0	3	4
16 Greater Vancouver	2	3	7	6	4	4	13	13
<b>TOTAL</b>	<b>5</b>	<b>8</b>	<b>9</b>	<b>8</b>	<b>5</b>	<b>5</b>	<b>19</b>	<b>21</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia



## 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>

**Date of Record:** October 1981 and October 1983.

**Source of Data:** British Columbia Psychological Association(BCPA).<sup>2</sup>

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<sup>1</sup>*Psychologists Act* 1979, RS Chap. 342, p. 1.

See also *Canadian Classification and Dictionary of Occupations 1980*. Major Group 23, Unit Group 2315, pp. 5-7, Ottawa: Employment and Immigration Canada.

<sup>2</sup>In order to practice as a psychologist in British Columbia, it is necessary to be registered by the British Columbia Psychological Association. Registration became compulsory in April 1977.

**Preparation and Updating:**

Notification of new registrants or changes in location or registration status are received by the Health Manpower Research Unit on a monthly basis. These updates are entered, after careful editing and reconciliation of inconsistencies into *PSYFILE*, a dynamic computer-based file.

In addition, a questionnaire is circulated by the BCPA to each member at the beginning of each year to review the information in the file. Following this the annual *Directory* is published.

The table includes registered psychologists who had a B.C. address at the date of record. Comparison with 1981 figures is suitable because practising psychologists in both years are all registered.

*Registered Psychologists  
per 10,000 Population  
by Regional Hospital District  
October 1983*

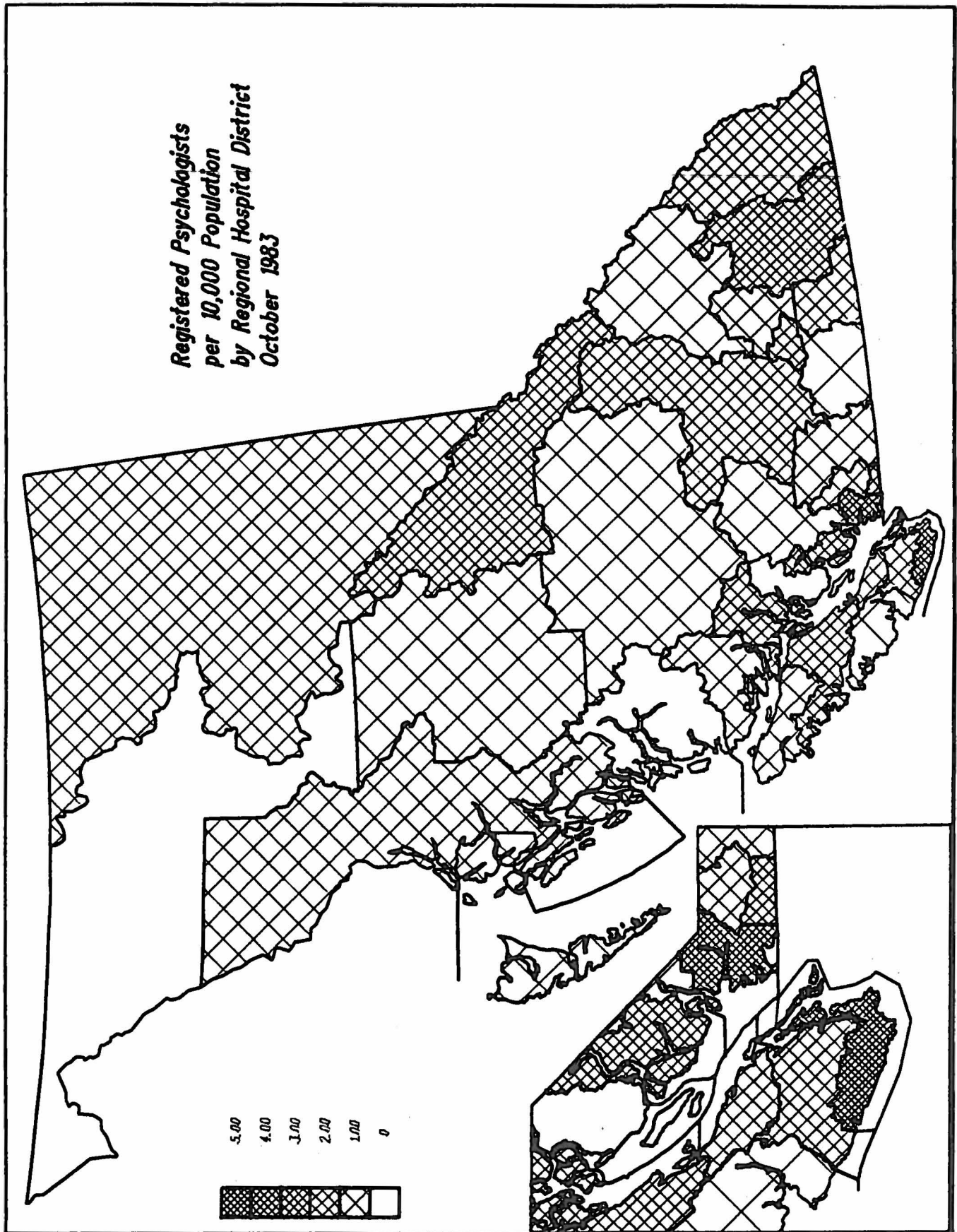


Table 1

**Registered Psychologists<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**October 1981 and October 1983**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>168</b>	<b>153</b>	<b>1.27</b>	<b>1.11</b>	<b>-4.57</b>	<b>-6.36</b>
1 Alberni-Clayoquot	1	1	0.31	0.30	*	*
2 Bulkley-Nechako	2	2	0.52	0.50	*	*
4 Cariboo	3	3	0.51	0.49	*	*
5 Central Coast	0	0	0.0	0.0	*	*
6 Central Fraser Valley	30	24	2.61	1.96	-10.56	-13.24
7 Central Kootenay	12	11	2.31	2.07	-4.26	-5.14
8 Central Okanagan	13	13	1.53	1.47	0.00	-1.85
9 Columbia-Shuswap	2	2	0.50	0.48	*	*
10 Comox-Strathcona	12	11	1.75	1.53	-4.26	-6.41
11 Cowichan Valley	9	7	1.71	1.28	*	*
12 Dewdney-Alouette	9	6	1.45	0.94	*	*
13 East Kootenay	7	7	1.30	1.25	*	*
14 Fraser-Cheam	5	4	0.88	0.69	*	*
15 Fraser-Fort George	17	15	1.90	1.61	-6.07	-7.99
17 Kitimat-Stikine	2	3	0.47	0.68	*	*
18 Kootenay Boundary	3	4	0.90	1.20	*	*
19 Mount Waddington	2	1	1.36	0.64	*	*
20 Nanaimo	8	9	1.04	1.12	*	*
21 North Okanagan	3	4	0.55	0.71	*	*
22 Okanagan-Similkameen	3	2	0.52	0.34	*	*
23 Peace River-Liard	5	5	0.90	0.84	*	*
24 Powell River	1	0	0.52	0.0	*	*
25 Skeena-Queen Charlotte	2	1	0.83	0.40	*	*
26 Squamish-Lillooet	1	1	0.53	0.51	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	3	3	1.94	1.91	*	*
29 Thompson-Nicola	13	14	1.27	1.33	3.77	2.13
<b>Metropolitan - Subtotal</b>	<b>579</b>	<b>577</b>	<b>4.08</b>	<b>4.00</b>	<b>-0.17</b>	<b>-1.02</b>
3 Capital	124	120	4.97	4.74	-1.63	-2.36
16 Greater Vancouver	455	457	3.89	3.84	0.22	-0.65
<b>TOTAL</b>	<b>748<sup>4</sup></b>	<b>730</b>	<b>2.73</b>	<b>2.59</b>	<b>-1.21</b>	<b>-2.54</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.

<sup>4</sup> One psychologist with location unknown is included.

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

Prepared by:

Health Manpower Research Unit  
The University of British Columbia





## **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>

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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.

**Date of Record:** December 1981 and December 1983.

**Source of Data:** B.C. Branch of the Canadian Institute of Public Health Inspectors.<sup>2</sup>

**Preparation and Updating:**

The list was prepared by the B.C. Branch. All persons known to be employed at provincial, municipal or federal levels in B.C. at the date of record are included.

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<sup>2</sup>Compulsory registration does not exist in B.C.

*Public Health Inspectors  
per 10,000 Population  
by Regional Hospital District  
December 1983*

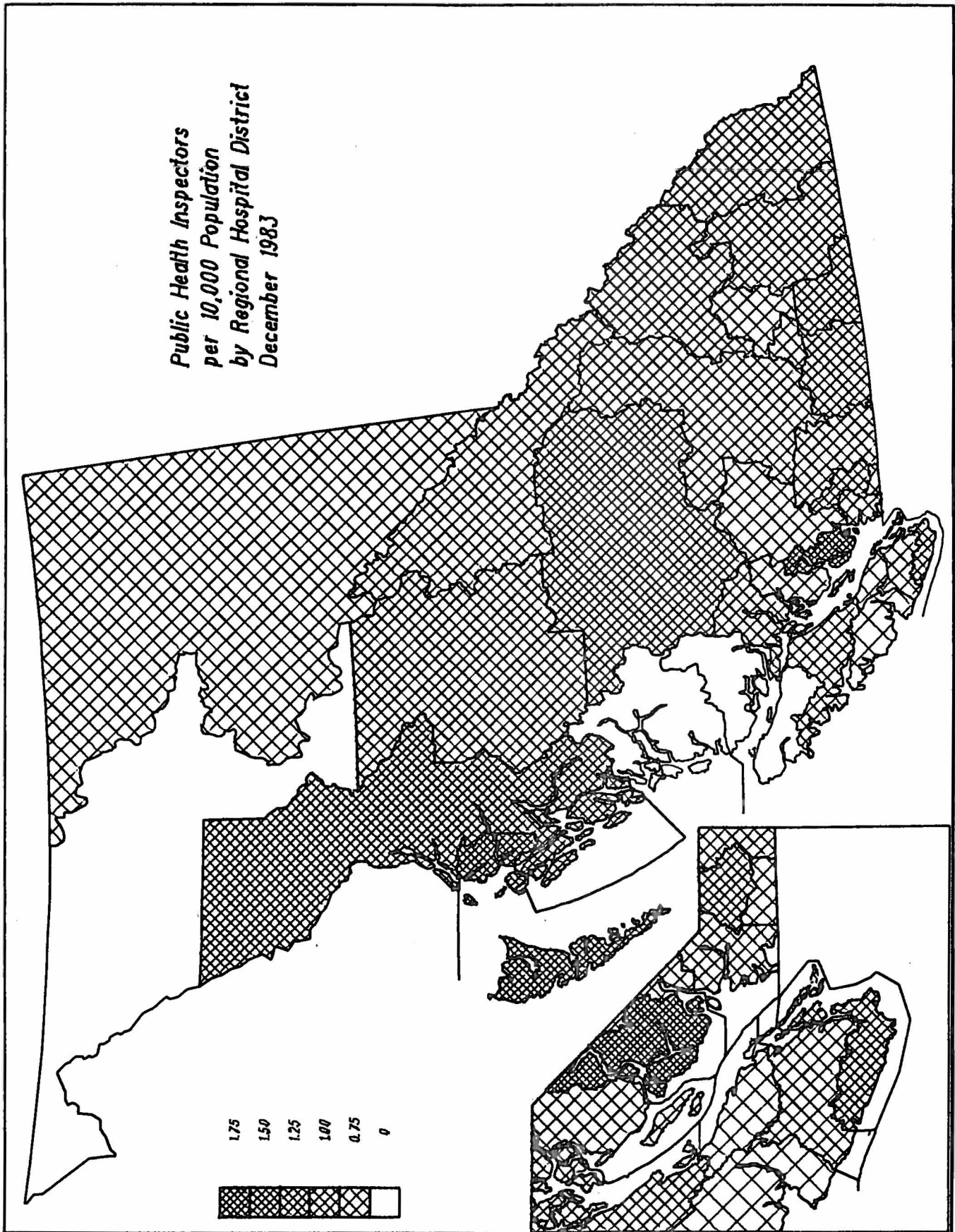


Table 1

**Public Health Inspectors<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**December 1981 and December 1983**

Regional Hospital District	Number		Number per 10,000 Population		Average Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>84</b>	<b>94</b>	<b>0.63</b>	<b>0.68</b>	<b>5.79</b>	<b>3.80</b>
1 Alberni-Clayoquot	2	1	0.61	0.30	*	*
2 Bulkley-Nechako	3	3	0.78	0.75	*	*
4 Cariboo	4	6	0.68	0.97	*	*
5 Central Coast	0	0	0.0	0.00	*	*
6 Central Fraser Valley	4	6	0.35	0.49	*	*
7 Central Kootenay	4	4	0.77	0.75	*	*
8 Central Okanagan	5	5	0.59	0.57	*	*
9 Columbia-Shuswap	3	3	0.75	0.72	*	*
10 Comox-Strathcona	5	5	0.73	0.70	*	*
11 Cowichan Valley	2	3	0.38	0.55	*	*
12 Dewdney-Alouette	5	6	0.81	0.94	*	*
13 East Kootenay	4	4	0.74	0.72	*	*
14 Fraser-Cheam	4	4	0.70	0.69	*	*
15 Fraser-Fort George	5	6	0.56	0.64	*	*
17 Kitimat-Stikine	3	5	0.71	1.13	*	*
18 Kootenay Boundary	3	3	0.90	0.90	*	*
19 Mount Waddington	1	0	0.68	0.00	*	*
20 Nanaimo	3	3	0.39	0.37	*	*
21 North Okanagan	3	3	0.55	0.53	*	*
22 Okanagan-Similkameen	3	5	0.52	0.85	*	*
23 Peace River-Liard	3	3	0.54	0.51	*	*
24 Powell River	2	1	1.03	0.51	*	*
25 Skeena-Queen Charlotte	3	4	1.25	1.61	*	*
26 Squamish-Lillooet	1	1	0.53	0.51	*	*
27 Stikine	0	0	0.0	0.00	*	*
28 Sunshine Coast	2	3	1.29	1.91	*	*
29 Thompson-Nicola	7	7	0.69	0.66	*	*
<b>Metropolitan - Subtotal</b>	<b>102</b>	<b>100</b>	<b>0.72</b>	<b>0.69</b>	<b>-0.99</b>	<b>-1.82</b>
3 Capital	25	26	1.00	1.03	1.98	1.22
16 Greater Vancouver	77	74	0.66	0.62	-1.97	-2.82
<b>TOTAL</b>	<b>186</b>	<b>194</b>	<b>0.68</b>	<b>0.69</b>	<b>2.13</b>	<b>0.75</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 Manpower Research Unit  
The University of British Columbia



## **REGISTERED NURSES**



## REGISTERED NURSES

**Definition:** A registered nurse:

"Chooses to function in any one of the identified roles and performs the functions within his/her chosen role according to academic preparation, experience, established policies of the employing agency, and the terms of contracts in existence in the area of practice.

The Registered Nurse functions in a very wide variety of settings, acute, extended, intermediate and personal care; public health, home care, mental health, doctors' offices; colleges and universities. Choice of roles can be that of Practitioner, Educator, Administrator and Researcher."<sup>1</sup>

**Date of Record:** June 1981 and June 1983.

**Source of Data:** The Registered Nurses' Association of British Columbia (RNABC).<sup>2</sup>

**Preparation and Updating:**

The tables, derived from the register of the RNABC, include registered nurses who were B.C. residents at the date of record.

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<sup>1</sup>*Guide to the Definition of The Roles and Functions of the Licensed Practical Nurse, the Registered Nurse and the Registered Psychiatric Nurse.* Joint Statement of, The Licensed Practical Nurses' Association of British Columbia, The Registered Nurses' Association of British Columbia and The Registered Psychiatric Nurses' Association of British Columbia, February 1977, p. 9. Detailed descriptions of roles and levels within roles appear on pp. 10-14.

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.

<sup>2</sup>In order to practice as a registered nurse in British Columbia, it is necessary to be registered by the RNABC.

## Definition of Terms:

### 1. Registration Status

Every person registered as a member is entitled to use and assume the designation Registered Nurse (RN). A registered nurse may hold a *practising* or *non-practising* membership in the RNABC. A practising registered nurse may or may not be employed in nursing. A non-practising registered nurse who commences employment must make application for a practising membership.

### 2. Employment Status

Tables 1, 2 and 3 show employment status for practising registered nurses and total numbers of non-practising registered nurses who were B.C. residents at the date of record. *The selection method for these categories was modified this year to increase the accuracy of self-reported data. The 1981 figures in this report, therefore, do not agree with those reported in ROLLCALL 81.*

### 3. Place of Employment

Principal place of employment was reported by the registrant on the annual RNABC fee form. Tables 4 and 5 show place of employment 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) Nursing Homes/Homes for the Aged
- (f) Home Care/Visiting Care Agency
- (g) Community Health Agency
- (h) Business/Industry
- (i) Physician's Office/Family Practice Unit
- (j) Educational Institution
- (k) Other

### 4. Field of Practice

Primary field of practice was reported by the registrant on the annual RNABC fee form. Tables 6 and 7 show field of practice for practising registered nurses employed in nursing. The categories used are:

- (a) Medical/Surgical General
- (b) Medical/Surgical Specialties (e.g., Intensive Care Unit, Operating Room, Emergency, Dialysis)
- (c) Maternal/Newborn
- (d) Psychiatric
- (e) Pediatric
- (f) Geriatric
- (g) Occupational Health
- (h) Generalized Practice (e.g., float pool, small general hospital)
- (i) Administration
- (j) Research
- (k) Other

## 5. Employment Position

Employment position was reported by the registrant on the annual RNABC fee form. Tables 8 and 9 show employment position for practising registered nurses employed in the field of nursing. The categories used are:

- (a) Director & Assistant/Associate Director
- (b) Supervisor/Assistant Supervisor
- (c) Clinical Specialist
- (d) Head Nurse/Assistant Head Nurse
- (e) General Duty/Staff Nurse/CHN
- (f) Instructor/Professor
- (g) Other

## 6. Analysis of Change

Table 10 illustrates the sources of change which affected the stock of registered nurses from 1981 to 1983.

*New registrants* include all nurses who were active as of June 1983 and who registered with the RNABC *for the first time* subsequent to June 1981. New registrants are recorded according to their place of graduation, i.e., from B.C., Other Canadian Schools (O.Can), the United Kingdom (U.K.), or Other.

*Re-activations* (Re-Act) represent those nurses who were not practising in June 1981 but were practising in June 1983, and whose date of initial registration was before July 1981.

*Attrition* (Attr'n) describes those registered nurses who were included in the 1981 registered nurse stock, but who, because of death, retirement or non-renewal of registration, were not included in the 1983 stock.

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

**NOTE:**

It is known that a number of registered nurses in B.C. hold dual registration with the RNABC and the Registered Psychiatric Nurses Association of British Columbia (RPNABC). It is not possible to obtain an exact count of such persons but it should be noted that they are included in *both* the registered nurse and registered psychiatric nurse sections of this document.

*Practising Registered Nurses  
Employed in Nursing  
per 10,000 Population  
by Regional Hospital District  
June 1983*

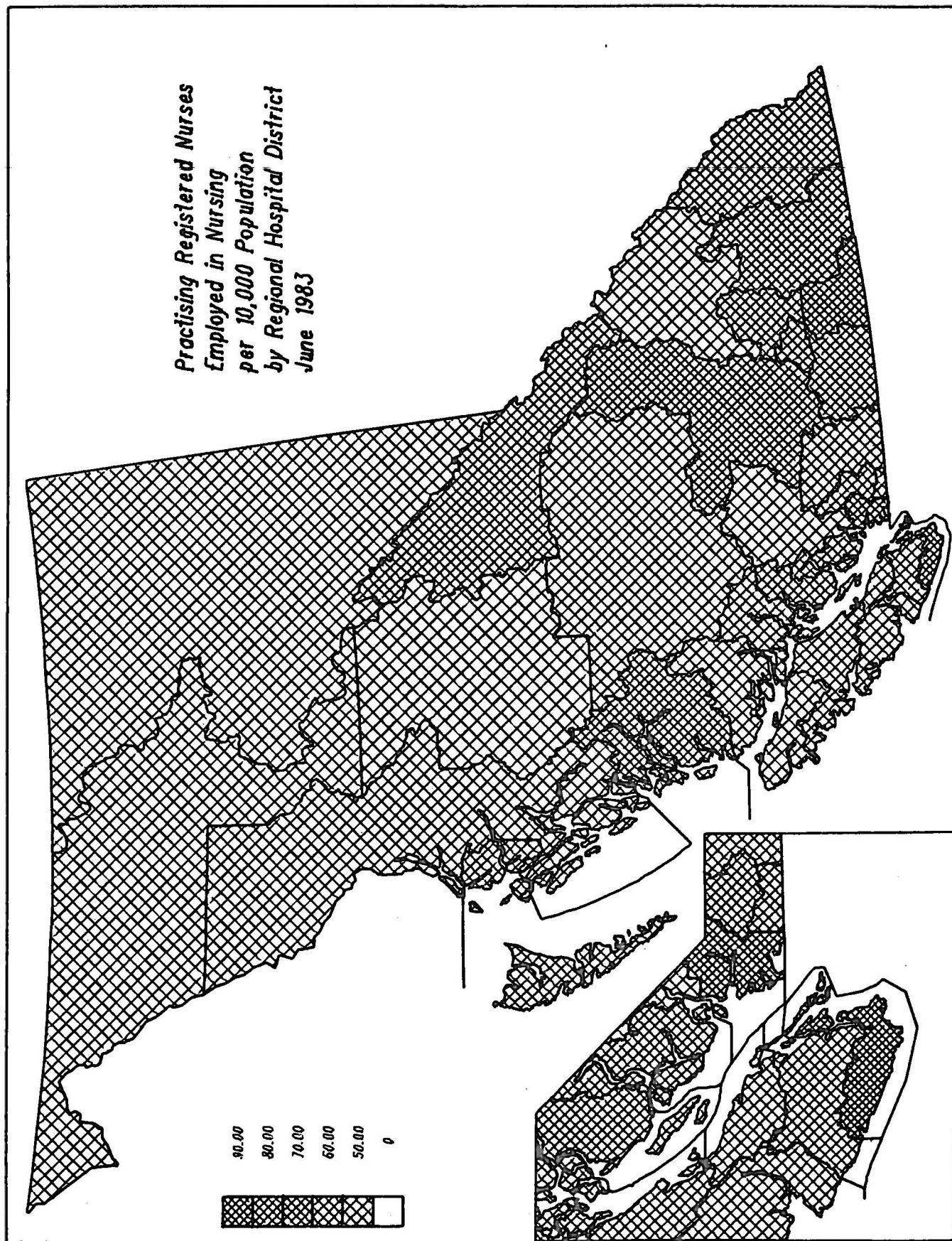


Table 1

**Registered Nurses' in British Columbia**  
**by Registration Status by Regional Hospital District**  
**June 1981 and June 1983**

Regional Hospital District	Practising						Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Subtotal		1981	1983	1981	1983
	1981	1983	1981	1983	1981	1983				
<b>Non-Metropolitan - Subtotal</b>	<b>7,106</b>	<b>7,397</b>	<b>554</b>	<b>435</b>	<b>7,660</b>	<b>7,832</b>	<b>1,428</b>	<b>1,446</b>	<b>9,088</b>	<b>9,278</b>
1 Alberni-Clayoquot	161	152	13	6	174	158	38	32	212	190
2 Bulkley-Nechako	135	137	13	12	148	149	32	40	180	189
4 Cariboo	253	266	14	14	267	280	30	33	297	313
5 Central Coast	21	21	2	2	23	23	1	4	24	27
6 Central Fraser Valley	614	668	43	45	657	713	118	122	775	835
7 Central Kootenay	319	331	15	16	334	347	54	58	388	405
8 Central Okanagan	476	522	39	26	515	548	104	106	619	654
9 Columbia-Shuswap	157	156	19	9	176	165	47	58	223	223
10 Comox-Strathcona	340	356	46	28	386	384	89	97	475	481
11 Cowichan Valley	286	297	23	26	309	323	60	57	369	380
12 Dewdney-Alouette	340	382	25	21	365	403	62	63	427	466
13 East Kootenay	287	310	25	17	312	327	53	48	365	375
14 Fraser-Cheam	293	291	25	12	318	303	51	60	369	363
15 Fraser-Fort George	532	527	29	22	561	549	81	89	642	638
17 Kitimat-Stikine	196	179	16	12	212	191	37	52	249	243
18 Kootenay Boundary	252	261	15	17	267	278	49	53	316	331
19 Mount Waddington	53	67	7	3	60	70	16	14	76	84
20 Nanaimo	394	380	36	32	430	412	104	102	534	514
21 North Okanagan	309	347	23	20	332	367	61	60	393	427
22 Okanagan-Similkameen	348	369	17	24	365	393	64	58	429	451
23 Peace River-Liard	207	224	16	13	223	237	65	48	288	285
24 Powell River	118	114	12	6	130	120	22	20	152	140
25 Skeena-Queen Charlotte	136	133	10	9	146	142	29	28	175	170
26 Squamish-Lillooet	71	76	6	4	77	80	14	16	91	96
27 Stikine	7	8	2	1	9	9	4	3	13	12
28 Sunshine Coast	79	90	9	7	88	97	23	23	111	120
29 Thompson-Nicola	722	733	54	31	776	764	120	102	896	866
<b>Metropolitan - Subtotal</b>	<b>11,450</b>	<b>11,787</b>	<b>852</b>	<b>755</b>	<b>12,302</b>	<b>12,542</b>	<b>1,647</b>	<b>1,817</b>	<b>13,949</b>	<b>14,359</b>
3 Capital	2,278	2,372	197	207	2,475	2,579	394	423	2,869	3,002
16 Greater Vancouver	9,172	9,415	655	548	9,827	9,963	1,253	1,394	11,080	11,357
<b>TOTAL</b>	<b>18,556</b>	<b>19,184</b>	<b>1,406</b>	<b>1,190</b>	<b>19,962</b>	<b>20,374</b>	<b>3,075</b>	<b>3,263</b>	<b>23,037</b>	<b>23,637</b>

1 Definitions are as in the attached text.

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

Table 2

**Registered Nurses<sup>1</sup> in British Columbia**  
**per 10,000 Population by Registration Status by Regional Hospital District**  
**June 1981 and June 1983**

Regional Hospital District	Practising						Non-Practising		Total	
	Employed in Nursing		Not Employed in Nursing		Subtotal		1981	1983	1981	1983
	1981	1983	1981	1983	1981	1983				
<b>Non-Metropolitan - Subtotal</b>	<b>53.62</b>	<b>53.74</b>	<b>4.18</b>	<b>3.16</b>	<b>57.80</b>	<b>56.90</b>	<b>10.78</b>	<b>10.51</b>	<b>68.58</b>	<b>67.41</b>
1 Alberni-Clayoquot	49.45	46.02	3.99	1.82	53.44	47.84	11.67	9.69	65.11	57.52
2 Bulkley-Nechako	35.24	34.19	3.39	2.99	38.63	37.19	8.35	9.98	46.99	47.17
4 Cariboo	42.70	43.04	2.36	2.27	45.06	45.30	5.06	5.34	50.12	50.64
5 Central Coast	68.92	66.75	6.56	6.36	75.48	73.11	3.28	12.71	78.77	85.82
6 Central Fraser Valley	53.39	54.65	3.74	3.68	57.12	58.33	10.26	9.98	67.38	68.31
7 Central Kootenay	61.29	62.43	2.88	3.02	64.18	65.45	10.38	10.94	74.55	76.39
8 Central Okanagan	55.84	58.99	4.58	2.94	60.42	61.93	12.20	11.98	72.62	73.91
9 Columbia-Shuswap	39.12	37.35	4.73	2.16	43.86	39.51	11.71	13.89	55.57	53.40
10 Comox-Strathcona	49.55	49.57	6.70	3.90	56.25	53.47	12.97	13.51	69.22	66.97
11 Cowichan Valley	54.27	54.51	4.36	4.77	58.63	59.28	11.38	10.46	70.02	69.75
12 Dewdney-Alouette	54.84	59.76	4.03	3.29	58.87	63.04	10.00	9.86	68.87	72.90
13 East Kootenay	53.42	55.50	4.65	3.04	58.08	58.54	9.87	8.59	67.94	67.13
14 Fraser-Cheam	51.46	49.95	4.39	2.06	55.85	52.01	8.96	10.30	64.81	62.31
15 Fraser-Fort George	59.49	56.54	3.24	2.36	62.73	58.90	9.06	9.55	71.79	68.45
17 Kitimat-Stikine	46.23	40.48	3.77	2.71	50.00	43.20	8.73	11.76	58.73	54.96
18 Kootenay Boundary	75.83	78.08	4.51	5.09	80.34	83.16	14.74	15.85	95.09	99.02
19 Mount Waddington	36.13	43.15	4.77	1.93	40.90	45.08	10.91	9.02	51.80	54.10
20 Nanaimo	51.10	47.16	4.67	3.97	55.77	51.14	13.49	12.66	69.26	63.79
21 North Okanagan	56.85	61.39	4.23	3.54	61.08	64.93	11.22	10.62	72.31	75.54
22 Okanagan-Similkameen	60.86	62.75	2.97	4.08	63.83	66.83	11.19	9.86	75.02	76.69
23 Peace River-Liard	37.32	37.85	2.88	2.20	40.21	40.05	11.72	8.11	51.93	48.16
24 Powell River	60.94	58.40	6.20	3.07	67.13	61.47	11.36	10.25	78.50	71.72
25 Skeena-Queen Charlotte	56.61	53.39	4.16	3.61	60.78	57.00	12.07	11.24	72.85	68.24
26 Squamish-Lillooet	37.51	38.80	3.17	2.04	40.68	40.85	7.40	8.17	48.08	49.01
27 Stikine	35.84	39.01	10.24	4.88	46.08	43.88	20.48	14.63	66.56	58.51
28 Sunshine Coast	50.96	57.36	5.81	4.46	56.76	61.82	14.84	14.66	71.60	76.48
29 Thompson-Nicola	70.80	69.62	5.30	2.94	76.09	72.56	11.77	9.69	87.86	82.25
<b>Metropolitan - Subtotal</b>	<b>80.67</b>	<b>81.65</b>	<b>6.00</b>	<b>5.23</b>	<b>86.68</b>	<b>86.88</b>	<b>11.60</b>	<b>12.59</b>	<b>98.28</b>	<b>99.47</b>
3 Capital	91.31	93.67	7.90	8.17	99.21	101.84	15.79	16.70	115.00	118.55
16 Greater Vancouver	78.40	79.10	5.60	4.60	84.00	83.70	10.71	11.71	94.71	95.41
<b>TOTAL</b>	<b>67.61</b>	<b>68.03</b>	<b>5.12</b>	<b>4.22</b>	<b>72.74</b>	<b>72.25</b>	<b>11.20</b>	<b>11.57</b>	<b>83.94</b>	<b>83.82</b>

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

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 The University of British Columbia

Table 3

**Average Annual Rate of Change; Registered Nurses<sup>1</sup>**  
**in British Columbia by Registration Status by Regional Hospital District**  
**June 1981 to June 1983**

Regional Hospital District	Practising						Non-Practising		Total	
	Employed		Not Employed		Subtotal		Number <sup>2</sup>	Ratio <sup>3</sup>	Number <sup>2</sup>	Ratio <sup>3</sup>
	in Nursing		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>				
<b>Non-Metropolitan - Subtotal</b>	<b>2.03</b>	<b>0.11</b>	<b>-11.39</b>	<b>-13.05</b>	<b>1.12</b>	<b>-0.78</b>	<b>0.63</b>	<b>-1.26</b>	<b>1.04</b>	<b>-0.86</b>
1 Alberni-Clayoquot	-2.84	-3.53	-32.06	-32.55	-4.71	-5.39	-8.23	-8.89	-5.33	-6.01
2 Bulkley-Nechako	0.74	-1.50	-3.92	-6.06	0.34	-1.89	11.80	9.32	2.47	0.19
4 Cariboo	2.54	0.39	0.0	-2.09	2.41	0.26	4.88	2.69	2.66	0.51
5 Central Coast	0.0	-1.59	*	*	0.0	-1.59	*	*	6.07	4.38
6 Central Fraser Valley	4.30	1.18	2.30	-0.77	4.17	1.05	1.68	-1.37	3.80	0.69
7 Central Kootenay	1.86	0.93	3.28	2.33	1.93	0.99	3.64	2.68	2.17	1.23
8 Central Okanagan	4.72	2.78	-18.35	-19.86	3.15	1.24	0.96	-0.91	2.79	0.88
9 Columbia-Shuswap	-0.32	-2.28	-31.18	-32.53	-3.18	-5.08	11.09	8.90	0.0	-1.97
10 Comox-Strathcona	2.33	0.02	-21.98	-23.74	-0.26	-2.50	4.40	2.05	0.63	-1.64
11 Cowichan Valley	1.90	0.22	6.32	4.57	2.24	0.55	-2.53	-4.14	1.48	-0.19
12 Dewdney-Alouette	6.00	4.39	-8.35	-9.74	5.08	3.48	0.80	-0.72	4.47	2.88
13 East Kootenay	3.93	1.92	-17.54	-19.13	2.38	0.40	-4.83	-6.67	1.36	-0.60
14 Fraser-Cheam	-0.34	-1.48	-30.72	-31.51	-2.39	-3.50	8.47	7.23	-0.82	-1.95
15 Fraser-Fort George	-0.47	-2.51	-12.90	-14.69	-1.08	-3.10	4.82	2.67	-0.31	-2.35
17 Kitimat-Stikine	-4.44	-6.42	-13.40	-15.19	-5.08	-7.05	18.55	16.09	-1.21	-3.26
18 Kootenay Boundary	1.77	1.47	6.46	6.14	2.04	1.74	4.00	3.69	2.35	2.04
19 Mount Waddington	12.43	9.29	*	*	8.01	4.99	-6.46	-9.08	5.13	2.19
20 Nanaimo	-1.79	-3.93	-5.72	-7.77	-2.12	-4.25	-0.97	-3.12	-1.89	-4.03
21 North Okanagan	5.97	3.92	-6.75	-8.56	5.14	3.10	-0.82	-2.75	4.24	2.21
22 Okanagan-Similkameen	2.97	1.54	18.82	17.17	3.76	2.33	-4.80	-6.12	2.53	1.11
23 Peace River-Liard	4.03	0.70	-9.86	-12.74	3.09	-0.20	-14.07	-16.81	-0.52	-3.70
24 Powell River	-1.71	-2.11	-29.29	-29.57	-3.92	-4.31	-4.65	-5.04	-4.03	-4.42
25 Skeena-Queen Charlotte	-1.11	-2.89	-5.13	-6.84	-1.38	-3.15	-1.74	-3.51	-1.44	-3.21
26 Squamish-Lillooet	3.46	1.71	*	*	1.93	0.20	6.90	5.09	2.71	0.97
27 Stikine	*	*	*	*	*	*	*	*	-3.92	-6.25
28 Sunshine Coast	6.74	6.10	*	*	4.99	4.36	0.0	-0.60	3.98	3.35
29 Thompson-Nicola	0.76	-0.84	-24.23	-25.43	-0.78	-2.35	-7.80	-9.26	-1.69	-3.25
<b>Metropolitan - Subtotal</b>	<b>1.46</b>	<b>0.60</b>	<b>-5.86</b>	<b>-6.66</b>	<b>0.97</b>	<b>0.12</b>	<b>5.03</b>	<b>4.15</b>	<b>1.46</b>	<b>0.60</b>
3 Capital	2.04	1.28	2.51	1.74	2.08	1.32	3.61	2.84	2.29	1.53
16 Greater Vancouver	1.32	0.44	-8.53	-9.32	0.69	-0.18	5.48	4.56	1.24	0.37
<b>TOTAL</b>	<b>1.68</b>	<b>0.31</b>	<b>-8.00</b>	<b>-9.24</b>	<b>1.03</b>	<b>-0.34</b>	<b>3.01</b>	<b>1.82</b>	<b>1.29</b>	<b>-0.07</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 4

Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia

by Place of Employment by Regional Hospital District

June 1983

Regional Hospital District	Acute Care Hospital	Activation/ Rehab. Hospital	Extended Care Hospital	Psychiatric Hospital	Hospital Subtotal
<b>Non-Metropolitan - Subtotal</b>	<b>5,156</b>	<b>9</b>	<b>392</b>	<b>67</b>	<b>5,624</b>
1 Alberni-Clayoquot	111	0	3	0	114
2 Bulkley-Nechako	88	0	0	0	88
4 Cariboo	194	1	7	0	202
5 Central Coast	13	0	0	0	13
6 Central Fraser Valley	470	0	51	13	534
7 Central Kootenay	223	0	28	0	251
8 Central Okanagan	325	1	45	1	372
9 Columbia-Shuswap	115	0	7	0	122
10 Comox-Strathcona	241	1	18	1	261
11 Cowichan Valley	196	0	29	3	228
12 Dewdney-Alouette	251	1	23	38	313
13 East Kootenay	216	0	11	0	227
14 Fraser-Cheam	201	1	18	2	222
15 Fraser-Fort George	414	2	15	1	432
17 Kitimat-Stikine	131	0	2	0	133
18 Kootenay Boundary	191	0	10	0	201
19 Mount Waddington	55	0	0	0	55
20 Nanaimo	241	1	28	1	271
21 North Okanagan	244	0	18	1	263
22 Okanagan-Similkameen	248	0	27	1	276
23 Peace River-Liard	167	0	7	0	174
24 Powell River	87	0	5	0	92
25 Skeena-Queen Charlotte	92	0	0	0	92
26 Squamish-Lillooet	58	0	1	0	59
27 Stikine	3	0	0	0	3
28 Sunshine Coast	55	0	1	1	57
29 Thompson-Nicola	526	1	38	4	569
<b>Metropolitan - Subtotal</b>	<b>7,853</b>	<b>159</b>	<b>843</b>	<b>288</b>	<b>9,143</b>
3 Capital	1,434	41	276	50	1,801
16 Greater Vancouver	6,419	118	567	238	7,342
<b>TOTAL</b>	<b>13,009</b>	<b>168</b>	<b>1,235</b>	<b>355</b>	<b>14,767</b>

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

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... continued

**Table 4**  
(Continued)

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**

**by Place of Employment by Regional Hospital District**

**June 1983**

<u>Regional Hospital District</u>	<u>Nursing Homes/ Homes For The Aged</u>	<u>Home Care/ Visiting Care Agency</u>	<u>Community Health Agency</u>	<u>Business/ Industry</u>	<u>Physician's Office/ Family Practice Unit</u>	<u>Educational Institution</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>339</b>	<b>306</b>	<b>490</b>	<b>46</b>	<b>199</b>	<b>118</b>	<b>275</b>	<b>7,397</b>
1 Alberni-Clayoquot	8	4	13	1	6	1	5	152
2 Bulkley-Nechako	9	0	24	0	5	0	11	137
4 Cariboo	9	12	23	0	5	0	15	266
5 Central Coast	0	1	2	0	2	1	2	21
6 Central Fraser Valley	35	22	34	3	8	5	27	668
7 Central Kootenay	19	16	19	0	4	13	9	331
8 Central Okanagan	33	28	28	4	26	19	12	522
9 Columbia-Shuswap	9	1	13	0	5	0	6	156
10 Comox-Strathcona	18	16	33	0	12	1	15	356
11 Cowichan Valley	11	20	15	0	7	8	8	297
12 Oewdney-Alouette	10	13	21	2	7	2	14	382
13 East Kootenay	29	14	26	1	6	2	5	310
14 Fraser-Cheam	14	9	16	3	6	2	19	291
15 Fraser-Fort George	3	15	26	4	12	23	12	527
17 Kitimat-Stikine	2	5	17	3	10	0	9	179
18 Kootenay Boundary	12	16	14	2	10	3	3	261
19 Mount Waddington	0	0	8	0	0	1	3	67
20 Nanaimo	31	25	25	4	7	11	6	380
21 North Okanagan	18	21	18	2	11	0	14	347
22 Okanagan-Similkameen	30	18	20	4	11	1	9	369
23 Peace River-Liard	11	7	17	2	7	1	5	224
24 Powell River	9	2	7	1	3	0	0	114
25 Skeena-Queen Charlotte	4	5	17	1	8	0	6	133
26 Squamish-Lillooet	0	1	6	0	2	0	8	76
27 Stikine	0	0	1	0	1	0	3	8
28 Sunshine Coast	6	5	9	0	5	1	7	90
29 Thompson-Nicola	9	30	38	9	13	23	42	733
<b>Metropolitan - Subtotal</b>	<b>388</b>	<b>332</b>	<b>609</b>	<b>125</b>	<b>180</b>	<b>361</b>	<b>649</b>	<b>11,787</b>
3 Capital	119	62	115	10	52	54	159	2,372
16 Greater Vancouver	269	270	494	115	128	307	490	9,415
<b>TOTAL</b>	<b>727</b>	<b>638</b>	<b>1,099</b>	<b>171</b>	<b>379</b>	<b>479</b>	<b>924</b>	<b>19,184</b>

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

<sup>2</sup> Includes 236 practising employed registered nurses who did not provide this information.

**Table 5**                      **Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Place of Employment by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Acute Care Hospital</u>	<u>Activation/ Rehab. Hospital</u>	<u>Extended Care Hospital</u>	<u>Psychiatric Hospital</u>	<u>Hospital Subtotal</u>
<b>Non-Metropolitan - Subtotal</b>	<b>37.46</b>	<b>0.07</b>	<b>2.85</b>	<b>0.49</b>	<b>40.86</b>
1 Alberni-Clayoquot	33.61	0.0	0.91	0.0	34.51
2 Bulkley-Nechako	21.96	0.0	0.0	0.0	21.96
4 Cariboo	31.39	0.16	1.13	0.0	32.68
5 Central Coast	41.32	0.0	0.0	0.0	41.32
6 Central Fraser Valley	38.45	0.0	4.17	1.06	43.69
7 Central Kootenay	42.06	0.0	5.28	0.0	47.34
8 Central Okanagan	36.73	0.11	5.09	0.11	42.04
9 Columbia-Shuswap	27.54	0.0	1.68	0.0	29.21
10 Comox-Strathcona	33.56	0.14	2.51	0.14	36.34
11 Cowichan Valley	35.97	0.0	5.32	0.55	41.85
12 Dewdney-Alouette	39.26	0.16	3.60	5.94	48.96
13 East Kootenay	38.67	0.0	1.97	0.0	40.64
14 Fraser-Cheam	34.50	0.17	3.09	0.34	38.11
15 Fraser-Fort George	44.42	0.21	1.61	0.11	46.35
17 Kitimat-Stikine	29.63	0.0	0.45	0.0	30.08
18 Kootenay Boundary	57.14	0.0	2.99	0.0	60.13
19 Mount Waddington	35.42	0.0	0.0	0.0	35.42
20 Nanaimo	29.91	0.12	3.48	0.12	33.63
21 North Okanagan	43.17	0.0	3.18	0.18	46.53
22 Okanagan-Similkameen	42.17	0.0	4.59	0.17	46.93
23 Peace River-Liard	28.22	0.0	1.18	0.0	29.40
24 Powell River	44.57	0.0	2.56	0.0	47.13
25 Skeena-Queen Charlotte	36.93	0.0	0.0	0.0	36.93
26 Squamish-Lillooet	29.61	0.0	0.51	0.0	30.12
27 Stikine	14.63	0.0	0.0	0.0	14.63
28 Sunshine Coast	35.05	0.0	0.64	0.64	36.33
29 Thompson-Nicola	49.96	0.09	3.61	0.38	54.04
<b>Metropolitan - Subtotal</b>	<b>54.40</b>	<b>1.10</b>	<b>5.84</b>	<b>2.00</b>	<b>63.34</b>
3 Capital	56.63	1.62	10.90	1.97	71.12
16 Greater Vancouver	53.93	0.99	4.76	2.00	61.68
<b>TOTAL</b>	<b>46.13</b>	<b>0.60</b>	<b>4.38</b>	<b>1.26</b>	<b>52.37</b>

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

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... continued

**Table 5**  
(Continued)

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**per 10,000 Population by Place of Employment by Regional Hospital District**

June 1983

<u>Regional Hospital District</u>	Nursing Homes/ Homes For The Aged	Home Care/ Visiting Care Agency	Community Health Agency	Business/ Industry	Physician's Office/ Family Practice Unit	Educational Institution	Other <sup>2</sup>	Total
<b>Non-Metropolitan - Subtotal</b>	<b>2.46</b>	<b>2.22</b>	<b>3.56</b>	<b>0.33</b>	<b>1.45</b>	<b>0.86</b>	<b>2.00</b>	<b>53.74</b>
1 Alberni-Clayoquot	2.42	1.21	3.94	0.30	1.82	0.30	1.51	46.02
2 Bulkley-Nechako	2.25	0.0	5.99	0.0	1.25	0.0	2.75	34.19
4 Cariboo	1.46	1.94	3.72	0.0	0.81	0.0	2.43	43.04
5 Central Coast	0.0	3.18	6.36	0.0	6.36	3.18	6.36	66.75
6 Central Fraser Valley	2.86	1.80	2.78	0.25	0.65	0.41	2.21	54.65
7 Central Kootenay	3.58	3.02	3.58	0.0	0.75	2.45	1.70	62.43
8 Central Okanagan	3.73	3.16	3.16	0.45	2.94	2.15	1.36	58.99
9 Columbia-Shuswap	2.16	0.24	3.11	0.0	1.20	0.0	1.44	37.35
10 Comox-Strathcona	2.51	2.23	4.59	0.0	1.67	0.14	2.09	49.57
11 Cowichan Valley	2.02	3.67	2.75	0.0	1.28	1.47	1.47	54.51
12 Dewdney-Alouette	1.56	2.03	3.29	0.31	1.10	0.31	2.19	59.76
13 East Kootenay	5.19	2.51	4.65	0.18	1.07	0.36	0.90	55.50
14 Fraser-Cheam	2.40	1.54	2.75	0.51	1.03	0.34	3.26	49.95
15 Fraser-Fort George	0.32	1.61	2.79	0.43	1.29	2.47	1.29	56.54
17 Kitimat-Stikine	0.45	1.13	3.84	0.68	2.26	0.0	2.04	40.48
18 Kootenay Boundary	3.59	4.79	4.19	0.60	2.99	0.90	0.90	78.08
19 Mount Waddington	0.0	0.0	5.15	0.0	0.0	0.64	1.93	43.15
20 Nanaimo	3.85	3.10	3.10	0.50	0.87	1.37	0.74	47.16
21 North Okanagan	3.18	3.72	3.18	0.35	1.95	0.0	2.48	61.39
22 Okanagan-Similkameen	5.10	3.06	3.40	0.68	1.87	0.17	1.53	62.75
23 Peace River-Liard	1.86	1.18	2.87	0.34	1.18	0.17	0.84	37.85
24 Powell River	4.61	1.02	3.59	0.51	1.54	0.0	0.0	58.40
25 Skeena-Queen Charlotte	1.61	2.01	6.82	0.40	3.21	0.0	2.41	53.39
26 Squamish-Lillooet	0.0	0.51	3.06	0.0	1.02	0.0	4.08	38.80
27 Stikine	0.0	0.0	4.88	0.0	4.88	0.0	14.63	39.01
28 Sunshine Coast	3.82	3.19	5.74	0.0	3.19	0.64	4.46	57.36
29 Thompson-Nicola	0.85	2.85	3.61	0.85	1.23	2.18	3.99	69.62
<b>Metropolitan - Subtotal</b>	<b>2.69</b>	<b>2.30</b>	<b>4.22</b>	<b>0.87</b>	<b>1.25</b>	<b>2.50</b>	<b>4.50</b>	<b>81.65</b>
3 Capital	4.70	2.45	4.54	0.39	2.05	2.13	6.28	93.67
16 Greater Vancouver	2.26	2.27	4.15	0.97	1.08	2.58	4.12	79.10
<b>TOTAL</b>	<b>2.58</b>	<b>2.26</b>	<b>3.90</b>	<b>0.61</b>	<b>1.34</b>	<b>1.70</b>	<b>3.28</b>	<b>68.03</b>

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

<sup>2</sup> Includes 236 practising employed registered nurses who did not provide this information (see Table 4).

Table 6

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Field of Practice by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Medical/ Surgical General</u>	<u>Medical/ Surgical Specialties</u>	<u>Maternal/ Newborn</u>	<u>Psychiatric</u>	<u>Pediatric</u>	<u>Geriatric</u>	<u>Occupational Health</u>
<b>Non-Metropolitan - Subtotal</b>	<b>1,697</b>	<b>1,314</b>	<b>645</b>	<b>296</b>	<b>299</b>	<b>864</b>	<b>169</b>
1 Alberni-Clayoquot	26	20	14	10	2	17	5
2 Bulkley-Nechako	23	12	5	1	0	15	2
4 Cariboo	51	53	28	0	13	21	6
5 Central Coast	1	1	1	0	0	1	1
6 Central Fraser Valley	181	131	69	36	33	89	9
7 Central Kootenay	81	41	28	10	7	52	10
8 Central Okanagan	122	111	42	22	25	80	9
9 Columbia-Shuswap	31	21	3	1	3	21	4
10 Comox-Strathcona	86	64	32	18	12	49	6
11 Cowichan Valley	66	45	27	12	17	43	9
12 Dewdney-Alouette	82	84	22	37	21	46	4
13 East Kootenay	59	44	15	12	6	47	8
14 Fraser-Cheam	77	51	23	18	8	41	4
15 Fraser-Fort George	129	116	82	19	44	20	10
17 Kitimat-Stikine	43	22	15	3	11	11	5
18 Kootenay Boundary	67	52	20	9	8	33	6
19 Mount Waddington	4	0	1	2	0	1	3
20 Nanaimo	82	66	37	18	12	63	12
21 North Okanagan	89	55	27	18	23	34	13
22 Okanagan-Similkameen	84	64	16	14	8	64	10
23 Peace River-Liard	55	39	29	1	7	22	3
24 Powell River	28	22	15	0	6	17	4
25 Skeena-Queen Charlotte	26	20	9	2	11	8	2
26 Squamish-Lillooet	6	13	7	0	1	2	2
27 Stikine	0	0	0	0	0	0	0
28 Sunshine Coast	13	17	5	2	1	12	1
29 Thompson-Nicola	185	150	73	31	20	55	21
<b>Metropolitan - Subtotal</b>	<b>3,020</b>	<b>2,476</b>	<b>975</b>	<b>604</b>	<b>586</b>	<b>1,505</b>	<b>207</b>
3 Capital	563	488	157	120	79	463	35
16 Greater Vancouver	2,457	1,988	818	484	507	1,042	172
<b>TOTAL</b>	<b>4,717</b>	<b>3,790</b>	<b>1,620</b>	<b>900</b>	<b>885</b>	<b>2,369</b>	<b>376</b>

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

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... continued

**Table 6**  
(Continued)

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Field of Practice by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Generalized Practice</u>	<u>Clinical Practice Subtotal</u>	<u>Administration</u>	<u>Research</u>	<u>Non-Clinical Subtotal</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>986</b>	<b>6,270</b>	<b>235</b>	<b>3</b>	<b>238</b>	<b>889</b>	<b>7,397</b>
1 Alberni-Clayoquot	33	127	4	0	4	21	152
2 Bulkley-Nechako	53	111	4	0	4	22	137
4 Cariboo	50	222	10	0	10	34	266
5 Central Coast	13	18	1	0	1	2	21
6 Central Fraser Valley	32	580	20	2	22	66	668
7 Central Kootenay	52	281	15	0	15	35	331
8 Central Okanagan	26	437	18	0	18	67	522
9 Columbia-Shuswap	55	139	5	0	5	12	156
10 Comox-Strathcona	34	301	11	0	11	44	356
11 Cowichan Valley	39	258	6	0	6	33	297
12 Dewdney-Alouette	25	321	7	0	7	54	382
13 East Kootenay	76	267	13	1	14	29	310
14 Fraser-Cheam	24	246	5	0	5	40	291
15 Fraser-Fort George	42	462	11	0	11	54	527
17 Kitimat-Stikine	33	143	10	0	10	26	179
18 Kootenay Boundary	29	224	4	0	4	33	261
19 Mount Waddington	47	58	2	0	2	7	67
20 Nanaimo	33	323	12	0	12	45	380
21 North Okanagan	51	310	9	0	9	28	347
22 Okanagan-Similkameen	46	306	14	0	14	49	369
23 Peace River-Liard	28	184	10	0	10	30	224
24 Powell River	8	100	4	0	4	10	114
25 Skeena-Queen Charlotte	23	101	7	0	7	25	133
26 Squamish-Lillooet	32	63	4	0	4	9	76
27 Stikine	5	5	0	0	0	3	8
28 Sunshine Coast	21	72	4	0	4	14	90
29 Thompson-Nicola	76	611	25	0	25	97	733
<b>Metropolitan - Subtotal</b>	<b>502</b>	<b>9,875</b>	<b>300</b>	<b>40</b>	<b>340</b>	<b>1,572</b>	<b>11,787</b>
3 Capital	89	1,994	62	4	66	312	2,372
16 Greater Vancouver	413	7,881	238	36	274	1,260	9,415
<b>TOTAL</b>	<b>1,488</b>	<b>16,145</b>	<b>535</b>	<b>43</b>	<b>578</b>	<b>2,461</b>	<b>19,184</b>

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

<sup>2</sup> Includes 527 practising employed registered nurses who did not provide this information.

**Table 7**                      **Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**Per 10,000 Population by Field of Practice by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Medical/ Surgical General</u>	<u>Medical/ Surgical Specialties</u>	<u>Maternal/ Newborn</u>	<u>Psychiatric</u>	<u>Pediatric</u>	<u>Geriatric</u>	<u>Occupational Health</u>
<b>Non-Metropolitan - Subtotal</b>	<b>12.33</b>	<b>9.55</b>	<b>4.69</b>	<b>2.15</b>	<b>2.17</b>	<b>6.28</b>	<b>1.23</b>
1 Alberni-Clayoquot	7.87	6.06	4.24	3.03	0.61	5.15	1.51
2 Bulkley-Nechako	5.74	2.99	1.25	0.25	0.0	3.74	0.50
4 Cariboo	8.25	8.57	4.53	0.0	2.10	3.40	0.97
5 Central Coast	3.18	3.18	3.18	0.0	0.0	3.18	3.18
6 Central Fraser Valley	14.81	10.72	5.65	2.95	2.70	7.28	0.74
7 Central Kootenay	15.28	7.73	5.28	1.89	1.32	9.81	1.89
8 Central Okanagan	13.79	12.54	4.75	2.49	2.83	9.04	1.02
9 Columbia-Shuswap	7.42	5.03	0.72	0.24	0.72	5.03	0.96
10 Comox-Strathcona	11.97	8.91	4.46	2.51	1.67	6.82	0.84
11 Cowichan Valley	12.11	8.26	4.96	2.20	3.12	7.89	1.65
12 Dewdney-Alouette	12.83	13.14	3.44	5.79	3.29	7.20	0.63
13 East Kootenay	10.56	7.88	2.69	2.15	1.07	8.41	1.43
14 Fraser-Cheam	13.22	8.75	3.95	3.09	1.37	7.04	0.69
15 Fraser-Fort George	13.84	12.44	8.80	2.04	4.72	2.15	1.07
17 Kitimat-Stikine	9.72	4.98	3.39	0.68	2.49	2.49	1.13
18 Kootenay Boundary	20.04	15.56	5.98	2.69	2.39	9.87	1.79
19 Mount Waddington	2.58	0.0	0.64	1.29	0.0	0.64	1.93
20 Nanaimo	10.18	8.19	4.59	2.23	1.49	7.82	1.49
21 North Okanagan	15.75	9.73	4.78	3.18	4.07	6.02	2.30
22 Okanagan-Similkameen	14.28	10.88	2.72	2.38	1.36	10.88	1.70
23 Peace River-Liard	9.29	6.59	4.90	0.17	1.18	3.72	0.51
24 Powell River	14.34	11.27	7.68	0.0	3.07	8.71	2.05
25 Skeena-Queen Charlotte	10.44	8.03	3.61	0.80	4.42	3.21	0.80
26 Squamish-Lillooet	3.06	6.64	3.57	0.0	0.51	1.02	1.02
27 Stikine	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28 Sunshine Coast	8.29	10.83	3.19	1.27	0.64	7.65	0.64
29 Thompson-Nicola	17.57	14.25	6.93	2.94	1.90	5.22	1.99
<b>Metropolitan - Subtotal</b>	<b>20.92</b>	<b>17.15</b>	<b>6.75</b>	<b>4.18</b>	<b>4.06</b>	<b>10.43</b>	<b>1.43</b>
3 Capital	22.23	19.27	6.20	4.74	3.12	18.28	1.38
16 Greater Vancouver	20.64	16.70	6.87	4.07	4.26	8.75	1.44
<b>TOTAL</b>	<b>16.73</b>	<b>13.44</b>	<b>5.74</b>	<b>3.19</b>	<b>3.14</b>	<b>8.40</b>	<b>1.33</b>

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

Prepared by:  
 Health Manpower Research Unit  
 The University of British Columbia

... continued

**Table 7**  
(Continued)

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**Per 10,000 Population by Field of Practice by Regional Hospital District**

**June 1983**

<u>Regional Hospital District</u>	<u>Generalized Practice</u>	<u>Clinical Practice Subtotal</u>	<u>Administration</u>	<u>Research</u>	<u>Non-Clinical Subtotal</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>7.16</b>	<b>45.55</b>	<b>1.71</b>	<b>0.02</b>	<b>1.73</b>	<b>6.46</b>	<b>53.74</b>
1 Alberni-Clayoquot	9.99	38.45	1.21	0.0	1.21	6.36	46.02
2 Bulkley-Nechako	13.23	27.70	1.00	0.0	1.00	5.49	34.19
4 Cariboo	8.09	35.92	1.62	0.0	1.62	5.50	43.04
5 Central Coast	41.32	57.22	3.18	0.0	3.18	6.36	66.75
6 Central Fraser Valley	2.62	47.45	1.64	0.16	1.80	5.40	54.65
7 Central Kootenay	9.81	53.00	2.83	0.0	2.83	6.60	62.43
8 Central Okanagan	2.94	49.39	2.03	0.0	2.03	7.57	58.99
9 Columbia-Shuswap	13.17	33.28	1.20	0.0	1.20	2.87	37.35
10 Comox-Strathcona	4.73	41.91	1.53	0.0	1.53	6.13	49.57
11 Cowichan Valley	7.16	47.35	1.10	0.0	1.10	6.06	54.51
12 Dewdney-Alouette	3.91	50.21	1.10	0.0	1.10	8.45	59.76
13 East Kootenay	13.61	47.80	2.33	0.18	2.51	5.19	55.50
14 Fraser-Cheam	4.12	42.23	0.86	0.0	0.86	6.87	49.95
15 Fraser-Fort George	4.51	49.56	1.18	0.0	1.18	5.79	56.54
17 Kitimat-Stikine	7.46	32.34	2.26	0.0	2.26	5.88	40.48
18 Kootenay Boundary	8.68	67.01	1.20	0.0	1.20	9.87	78.08
19 Mount Waddington	30.27	37.35	1.29	0.0	1.29	4.51	43.15
20 Nanaimo	4.10	40.09	1.49	0.0	1.49	5.59	47.16
21 North Okanagan	9.02	54.84	1.59	0.0	1.59	4.95	61.39
22 Okanagan-Similkameen	7.82	52.04	2.38	0.0	2.38	8.33	62.75
23 Peace River-Liard	4.73	31.09	1.69	0.0	1.69	5.07	37.85
24 Powell River	4.10	51.23	2.05	0.0	2.05	5.12	58.40
25 Skeena-Queen Charlotte	9.23	40.54	2.81	0.0	2.81	10.04	53.39
26 Squamish-Lillooet	16.34	32.17	2.04	0.0	2.04	4.60	38.80
27 Stikine	24.38	24.38	0.0	0.0	0.0	14.63	39.01
28 Sunshine Coast	13.38	45.89	2.55	0.0	2.55	8.92	57.36
29 Thompson-Nicola	7.22	58.03	2.37	0.0	2.37	9.21	69.62
<b>Metropolitan - Subtotal</b>	<b>3.48</b>	<b>68.41</b>	<b>2.08</b>	<b>0.28</b>	<b>2.36</b>	<b>10.89</b>	<b>81.65</b>
3 Capital	3.51	78.74	2.45	0.16	2.61	12.32	93.67
16 Greater Vancouver	3.47	66.21	2.00	0.30	2.30	10.59	79.10
<b>TOTAL</b>	<b>5.28</b>	<b>57.25</b>	<b>1.90</b>	<b>0.15</b>	<b>2.05</b>	<b>8.73</b>	<b>68.03</b>

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

<sup>2</sup> Includes 527 practising employed registered nurses who did not provide this information (see Table 6).

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**Table 8**                      **Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia**  
**by Employment Position by Regional Hospital District**  
**June 1983**

<u>Regional Hospital District</u>	<u>Assistant/ Associate/ Director</u>	<u>Assistant/ Supervisor</u>	<u>Clinical Specialist</u>	<u>Assistant/ Head Nurse</u>	<u>General Duty/ Staff Nurse</u>	<u>Instructor/ Professor</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>156</b>	<b>276</b>	<b>40</b>	<b>442</b>	<b>5,969</b>	<b>121</b>	<b>393</b>	<b>7,397</b>
1 Alberni-Clayoquot	4	7	0	10	124	1	6	152
2 Bulkley-Nechako	2	8	0	12	104	0	11	137
4 Cariboo	4	18	1	13	216	0	14	266
5 Central Coast	2	0	0	3	13	1	2	21
6 Central Fraser Valley	17	20	5	27	560	8	31	668
7 Central Kootenay	13	11	2	20	256	11	18	331
8 Central Okanagan	15	13	4	23	425	19	23	522
9 Columbia-Shuswap	4	12	1	11	119	0	9	156
10 Comox-Strathcona	9	14	3	15	287	3	25	356
11 Cowichan Valley	3	11	1	14	252	5	11	297
12 Dewdney-Alouette	6	20	7	31	295	3	20	382
13 East Kootenay	7	9	0	23	256	3	12	310
14 Fraser-Cheam	3	5	0	20	242	2	19	291
15 Fraser-Fort George	8	12	7	19	435	21	25	527
17 Kitimat-Stikine	3	13	1	16	130	0	16	179
18 Kootenay Boundary	6	9	0	24	208	6	8	261
19 Mount Waddington	5	0	0	1	58	1	2	67
20 Nanaimo	6	12	1	17	313	9	22	380
21 North Okanagan	3	13	0	15	299	1	16	347
22 Okanagan-Similkameen	7	12	0	20	300	3	27	369
23 Peace River-Liard	7	14	0	15	180	1	7	224
24 Powell River	2	7	0	12	88	0	5	114
25 Skeena-Queen Charlotte	6	7	0	8	100	1	11	133
26 Squamish-Lillooet	4	2	1	2	61	0	6	76
27 Stikine	0	0	0	2	5	0	1	8
28 Sunshine Coast	1	7	0	6	67	2	7	90
29 Thompson-Nicola	9	20	6	63	576	20	39	733
<b>Metropolitan - Subtotal</b>	<b>218</b>	<b>392</b>	<b>111</b>	<b>807</b>	<b>9,071</b>	<b>397</b>	<b>791</b>	<b>11,787</b>
3 Capital	49	91	13	207	1,802	50	160	2,372
16 Greater Vancouver	169	301	98	600	7,269	347	631	9,415
<b>TOTAL</b>	<b>374</b>	<b>668</b>	<b>151</b>	<b>1,249</b>	<b>15,040</b>	<b>518</b>	<b>1,184</b>	<b>19,184</b>

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

<sup>2</sup> Includes 479 practising employed registered nurses who did not provide this information.

Prepared by:  
Health Manpower Research Unit  
The University of British Columbia

Table 9

**Practising Registered Nurses<sup>1</sup> Employed in Nursing in British Columbia  
per 10,000 Population by Employment Position by Regional Hospital District**

**June 1983**

<u>Regional Hospital District</u>	<u>Assistant/ Associate/ Director</u>	<u>Assistant/ Supervisor</u>	<u>Clinical Specialist</u>	<u>Assistant/ Head Nurse</u>	<u>General Duty/ Staff Nurse</u>	<u>Instructor/ Professor</u>	<u>Other<sup>2</sup></u>	<u>Total</u>
<b>Non-Metropolitan - Subtotal</b>	<b>1.13</b>	<b>2.01</b>	<b>0.29</b>	<b>3.21</b>	<b>43.37</b>	<b>0.88</b>	<b>2.86</b>	<b>53.74</b>
1 Alberni-Clayoquot	1.21	2.12	0.0	3.03	37.54	0.30	1.82	46.02
2 Bulkley-Nechako	0.50	2.00	0.0	2.99	25.96	0.0	2.75	34.19
4 Cariboo	0.65	2.91	0.16	2.10	34.95	0.0	2.27	43.04
5 Central Coast	6.36	0.0	0.0	9.54	41.32	3.18	6.36	66.75
6 Central Fraser Valley	1.39	1.64	0.41	2.21	45.82	0.65	2.54	54.65
7 Central Kootenay	2.45	2.07	0.38	3.77	48.29	2.07	3.40	62.43
8 Central Okanagan	1.70	1.47	0.45	2.60	48.03	2.15	2.60	58.99
9 Columbia-Shuswap	0.96	2.87	0.24	2.63	28.49	0.0	2.16	37.35
10 Comox-Strathcona	1.25	1.95	0.42	2.09	39.96	0.42	3.48	49.57
11 Cowichan Valley	0.55	2.02	0.18	2.57	46.25	0.92	2.02	54.51
12 Dewdney-Alouette	0.94	3.13	1.10	4.85	46.15	0.47	3.13	59.76
13 East Kootenay	1.25	1.61	0.0	4.12	45.83	0.54	2.15	55.50
14 Fraser-Cheam	0.51	0.86	0.0	3.43	41.54	0.34	3.26	49.95
15 Fraser-Fort George	0.86	1.29	0.75	2.04	46.67	2.25	2.68	56.54
17 Kitimat-Stikine	0.68	2.94	0.23	3.62	29.40	0.0	3.62	40.48
18 Kootenay Boundary	1.79	2.69	0.0	7.18	62.22	1.79	2.39	78.08
19 Mount Waddington	3.22	0.0	0.0	0.64	37.35	0.64	1.29	43.15
20 Nanaimo	0.74	1.49	0.12	2.11	38.85	1.12	2.73	47.16
21 North Okanagan	0.53	2.30	0.0	2.65	52.90	0.18	2.83	61.39
22 Okanagan-Similkameen	1.19	2.04	0.0	3.40	51.02	0.51	4.59	62.75
23 Peace River-Liard	1.18	2.37	0.0	2.53	30.41	0.17	1.18	37.85
24 Powell River	1.02	3.59	0.0	6.15	45.08	0.0	2.56	58.40
25 Skeena-Queen Charlotte	2.41	2.81	0.0	3.21	40.14	0.40	4.42	53.39
26 Squamish-Lillooet	2.04	1.02	0.51	1.02	31.14	0.0	3.06	38.80
27 Stikine	0.0	0.0	0.0	9.75	24.38	0.0	4.88	39.01
28 Sunshine Coast	0.64	4.46	0.0	3.82	42.70	1.27	4.46	57.36
29 Thompson-Nicola	0.85	1.90	0.57	5.98	54.71	1.90	3.70	69.62
<b>Metropolitan - Subtotal</b>	<b>1.51</b>	<b>2.72</b>	<b>0.77</b>	<b>5.59</b>	<b>62.84</b>	<b>2.75</b>	<b>5.48</b>	<b>81.65</b>
3 Capital	1.94	3.59	0.51	8.17	71.16	1.97	6.32	93.67
16 Greater Vancouver	1.42	2.53	0.82	5.04	61.07	2.92	5.30	79.10
<b>TOTAL</b>	<b>1.33</b>	<b>2.37</b>	<b>0.54</b>	<b>4.43</b>	<b>53.33</b>	<b>1.84</b>	<b>4.20</b>	<b>68.03</b>

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

<sup>2</sup> Includes 479 practising employed registered nurses who did not provide this information (see Table 8).

Prepared by:  
Health Manpower Research Unit  
The University of British Columbia

Table 10

**Analysis of Change in the Number of Practising Registered Nurses<sup>1</sup>**  
**in British Columbia by Place of Graduation by Regional Hospital District**  
**June 1981 to June 1983**

Regional Hospital District	1981 <sup>1</sup>	New Registrants <sup>2</sup> by Place of Graduation				Total	Re-Act <sup>3</sup>	Attr'n <sup>4</sup>	Migr'n <sup>5</sup>	1983 <sup>6</sup>
		B.C.	O.Can. <sup>4</sup>	U.K.	Other					
<b>Non-Metropolitan - Subtotal</b>	<b>7,660</b>	<b>318</b>	<b>334</b>	<b>37</b>	<b>53</b>	<b>742</b>	<b>695</b>	<b>1,328</b>	<b>63</b>	<b>7,832</b>
1 Alberni-Clayoquot	174	3	4	1	0	8	17	32	-9	158
2 Bulkley-Nechako	148	6	6	0	1	13	13	29	4	149
4 Cariboo	267	14	10	4	1	29	25	45	4	280
5 Central Coast	23	1	3	0	0	4	1	5	0	23
6 Central Fraser Valley	657	29	21	4	3	57	70	88	17	713
7 Central Kootenay	334	19	15	0	2	36	25	55	7	347
8 Central Okanagan	515	32	31	1	7	71	44	82	0	548
9 Columbia-Shuswap	176	1	8	1	0	10	13	40	6	165
10 Comox-Strathcona	386	4	23	1	0	28	32	73	11	384
11 Cowichan Valley	309	4	9	2	3	18	35	50	11	323
12 Dewdney-Alouette	365	25	9	2	1	37	34	57	24	403
13 East Kootenay	312	1	19	2	1	23	30	54	16	327
14 Fraser-Cheam	318	12	14	0	2	28	20	68	5	303
15 Fraser-Fort George	561	44	19	4	5	72	38	108	-14	549
17 Kitimat-Stikine	212	6	14	1	2	23	18	57	-5	191
18 Kootenay Boundary	267	13	9	2	3	27	21	40	3	278
19 Mount Waddington	60	2	4	0	3	9	10	9	0	70
20 Nanaimo	430	4	12	1	2	19	53	72	-18	412
21 North Okanagan	332	21	13	2	1	37	34	39	3	367
22 Okanagan-Similkameen	365	19	14	2	0	35	37	53	9	393
23 Peace River-Liard	223	9	24	4	3	40	30	55	-1	237
24 Powell River	130	2	1	1	3	7	7	13	-11	120
25 Skeena-Queen Charlotte	146	2	13	0	0	15	14	33	0	142
26 Squamish-Lillooet	77	1	6	1	1	9	8	12	-2	80
27 Stikine	9	0	1	0	0	1	2	3	0	9
28 Sunshine Coast	88	3	2	0	1	6	11	14	6	97
29 Thompson-Nicola	776	41	30	1	8	80	53	142	-3	764
<b>Metropolitan - Subtotal</b>	<b>12,302</b>	<b>713</b>	<b>540</b>	<b>73</b>	<b>160</b>	<b>1,486</b>	<b>887</b>	<b>2,070</b>	<b>-63</b>	<b>12,542</b>
3 Capital	2,475	171	145	17	10	343	197	435	-1	2,579
16 Greater Vancouver	9,827	542	395	56	150	1,143	690	1,635	-62	9,963
<b>TOTAL</b>	<b>19,962</b>	<b>1,031</b>	<b>874</b>	<b>110</b>	<b>213</b>	<b>2,228</b>	<b>1,582</b>	<b>3,398</b>	<b>0</b>	<b>20,374</b>

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

<sup>2</sup> Registered nurses who held practising status in June 1983 and whose date of initial registration was after June 1981.

<sup>3</sup> Number of practising registered nurses as at June 1981.

<sup>4</sup> Other Canada.

<sup>5</sup> Registered nurses who held practising status in June 1983 but not in June 1981 and who were registered for the first time before July 1981.

<sup>6</sup> Registered nurses who held practising status in June 1981 but not in June 1983.

<sup>7</sup> Net effect of intraprovincial migration.

<sup>8</sup> Number of practising registered nurses as at June 1983.

Prepared by:

Health Manpower Research Unit  
The University of British Columbia

**REGISTERED PSYCHIATRIC NURSES**

## REGISTERED PSYCHIATRIC NURSES

**Definition:** A registered psychiatric nurse:

"Gives psychiatric/mental health nursing care to enable individuals, families and groups to function at their optimal level of psychological well-being by developing more effective adaptive behaviours and by increasing their resilience to stress.

The RPN must be competent to provide basic physical nursing skills and must have a highly developed level of communication skills (verbal/non-verbal/written).

The Registered Psychiatric Nurse works with children, adolescents and adults with maladaptive behaviour and/or those who are mentally handicapped.

He/she may work as a member of the health care team or independently, utilizing appropriate consultation.

He/she may be employed in an inpatient facility (institution, psychiatric unit of a general hospital, mental health centre) or, with suitable academic preparation and/or experience, in a community setting."<sup>1</sup>

**Date of Record:** June 1981 and September 1983.

**Source of Data:** Registered Psychiatric Nurses Association of British Columbia (RPNABC).<sup>2</sup>

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<sup>1</sup>*Guide to the Definition of The Roles and Functions of the Licensed Practical Nurse, the Registered Nurse and the Registered Psychiatric Nurse.*

Joint Statement of The Licensed Practical Nurses' Association of British Columbia, The Registered Nurses' Association of British Columbia and the Registered Psychiatric Nurses' Association of British Columbia, February 1977, p. 15.

See also *Canadian Classification and Dictionary of Occupations 1980*, Major Group 31, No. 3131-138, p. 54, Ottawa: Employment and Immigration Canada.

<sup>2</sup>In order to practice as an RPN in British Columbia, it is necessary to be registered by the RPNABC.

**Preparation and Updating:**

The tables, derived from the list supplied by the RPNABC, include RPN's who reported a B.C. address at the date of record.

**Definition of Terms:****Registration Status**

Every person registered as a member of the RPNABC is entitled to use and assume the designation RPN. An RPN may hold either an *Active* or *Inactive* membership. *Active* members may or may not be employed in nursing. *Inactive* members may not be employed in nursing.

**NOTE:**

It is known that a number of registered psychiatric nurses in B.C. hold dual registration with the RPNABC and the Registered Nurses' Association of British Columbia (RNABC). It is not possible to obtain an exact count of such persons but it should be noted that they are included in *both* the registered nurse and registered psychiatric nurse sections of this document.

*Active Registered  
Psychiatric Nurses  
per 10,000 Population  
by Regional Hospital District  
September 1983*

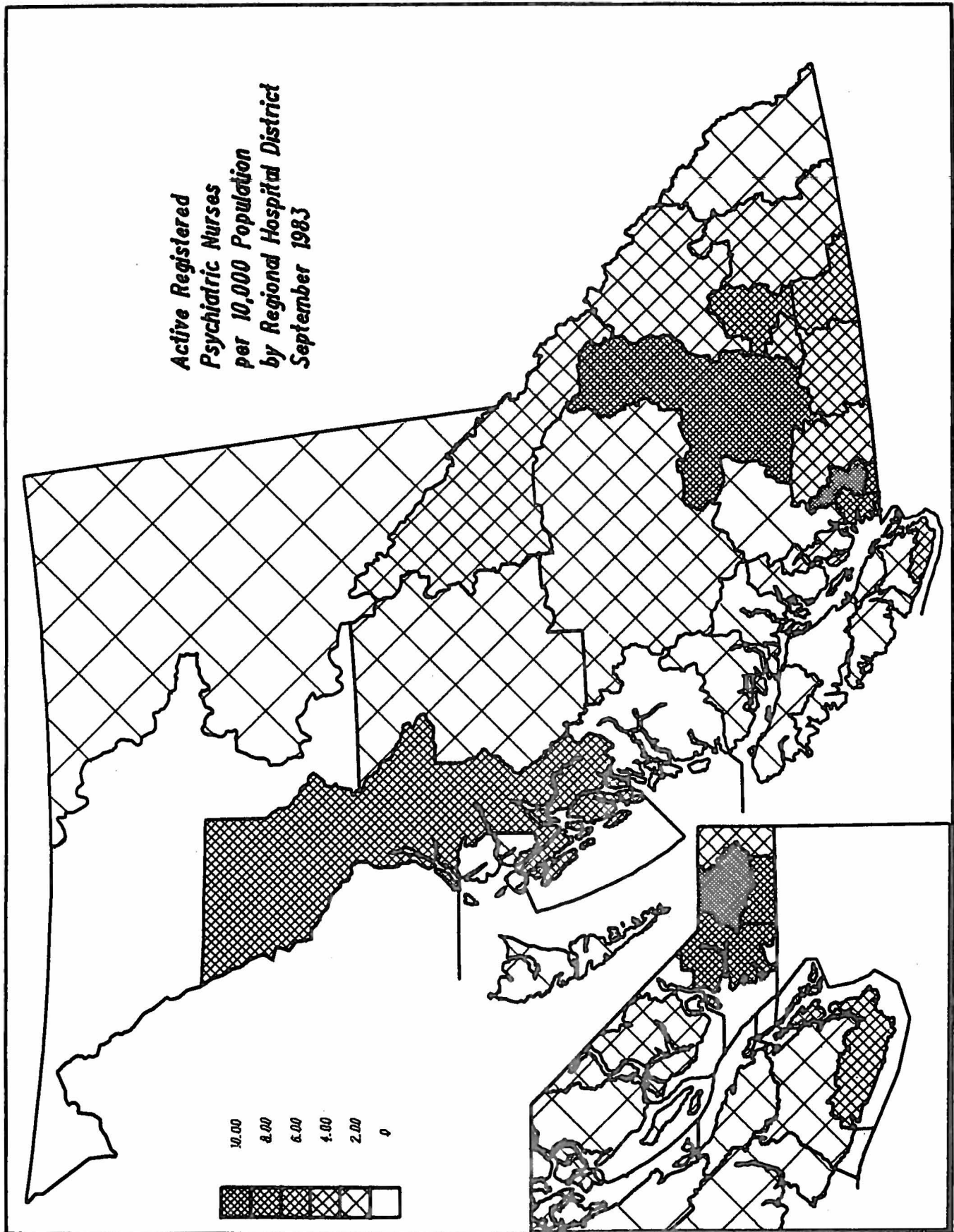


Table 1

**Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**by Registration Status by Regional Hospital District**  
**June 1981 and September 1983**

Regional Hospital District	Active		Inactive		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>850</b>	<b>870</b>	<b>240</b>	<b>272</b>	<b>890</b>	<b>942</b>
1 Alberni-Clayoquot	3	2	1	2	4	4
2 Bulkley-Nechako	4	3	8	10	12	13
4 Cariboo	4	6	6	9	10	15
5 Central Coast	0	0	1	1	1	1
6 Central Fraser Valley	95	107	40	42	135	149
7 Central Kootenay	8	8	4	7	12	15
8 Central Okanagan	26	22	14	16	40	38
9 Columbia-Shuswap	3	6	3	4	6	10
10 Comox-Strathcona	2	2	6	7	8	9
11 Cowichan Valley	4	5	6	5	10	10
12 Dewdney-Alouette	228	247	60	66	288	313
13 East Kootenay	4	4	7	8	11	12
14 Fraser-Cheam	18	14	7	7	25	21
15 Fraser-Fort George	19	14	6	11	25	25
17 Kitimat-Stikine	30	29	5	6	35	35
18 Kootenay Boundary	11	14	2	4	13	18
19 Mount Waddington	0	1	1	2	1	3
20 Nanaimo	6	7	8	7	14	14
21 North Okanagan	49	42	12	14	61	56
22 Okanagan-Similkameen	12	16	8	6	20	22
23 Peace River-Liard	4	3	4	5	8	8
24 Powell River	0	1	1	2	1	3
25 Skeena-Queen Charlotte	2	1	2	3	4	4
26 Squamish-Lillooet	2	1	1	2	3	3
27 Stikine	0	0	1	0	1	0
28 Sunshine Coast	0	2	2	2	2	4
29 Thompson-Nicola	116	113	24	24	140	137
<b>Metropolitan - Subtotal</b>	<b>1,130</b>	<b>1,179</b>	<b>299</b>	<b>354</b>	<b>1,429</b>	<b>1,533</b>
3 Capital	110	108	20	35	130	143
16 Greater Vancouver	1,020	1,071	279	319	1,299	1,390
<b>TOTAL</b>	<b>1,780</b>	<b>1,849</b>	<b>539</b>	<b>626</b>	<b>2,319</b>	<b>2,475</b>

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

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 The University of British Columbia



Table 2

**Registered Psychiatric Nurses<sup>1</sup> in British Columbia**  
**per 10,000 Population by Registration Status by Regional Hospital District**  
**June 1981 and September 1983**

Regional Hospital District	Active		Inactive		Total	
	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>4.91</b>	<b>4.87</b>	<b>1.81</b>	<b>1.98</b>	<b>6.72</b>	<b>6.84</b>
1 Alberni-Clayoquot	0.92	0.61	0.31	0.61	1.23	1.21
2 Bulkley-Nechako	1.04	0.75	2.09	2.50	3.13	3.24
4 Cariboo	0.68	0.97	1.01	1.46	1.69	2.43
5 Central Coast	0.0	0.0	3.28	3.18	3.28	3.18
6 Central Fraser Valley	8.26	8.75	3.48	3.44	11.74	12.19
7 Central Kootenay	1.54	1.51	0.77	1.32	2.31	2.83
8 Central Okanagan	3.05	2.49	1.64	1.81	4.69	4.29
9 Columbia-Shuswap	0.75	1.44	0.75	0.96	1.50	2.39
10 Comox-Strathcona	0.29	0.28	0.87	0.97	1.17	1.25
11 Cowichan Valley	0.76	0.92	1.14	0.92	1.90	1.84
12 Dewdney-Alouette	36.77	38.64	9.68	10.32	46.45	48.96
13 East Kootenay	0.74	0.72	1.30	1.43	2.05	2.15
14 Fraser-Cheam	3.16	2.40	1.23	1.20	4.39	3.60
15 Fraser-Fort George	2.12	1.50	0.67	1.18	2.80	2.68
17 Kitimat-Stikine	7.08	6.56	1.18	1.36	8.25	7.92
18 Kootenay Boundary	3.31	4.19	0.60	1.20	3.91	5.38
19 Mount Waddington	0.0	0.64	0.68	1.29	0.68	1.93
20 Nanaimo	0.78	0.87	1.04	0.87	1.82	1.74
21 North Okanagan	9.02	7.43	2.21	2.48	11.22	9.91
22 Okanagan-Similkameen	2.10	2.72	1.40	1.02	3.50	3.74
23 Peace River-Liard	0.72	0.51	0.72	0.84	1.44	1.35
24 Powell River	0.0	0.51	0.52	1.02	0.52	1.54
25 Skeena-Queen Charlotte	0.83	0.40	0.83	1.20	1.67	1.61
26 Squamish-Lillooet	1.06	0.51	0.53	1.02	1.58	1.53
27 Stikine	0.0	0.0	5.12	0.0	5.12	0.0
28 Sunshine Coast	0.0	1.27	1.29	1.27	1.29	2.55
29 Thompson-Nicola	11.37	10.73	2.35	2.28	13.73	13.01
<b>Metropolitan - Subtotal</b>	<b>7.96</b>	<b>8.17</b>	<b>2.11</b>	<b>2.45</b>	<b>10.07</b>	<b>10.62</b>
3 Capital	4.41	4.26	0.80	1.38	5.21	5.65
16 Greater Vancouver	8.72	9.00	2.38	2.68	11.10	11.68
<b>TOTAL</b>	<b>6.49</b>	<b>6.56</b>	<b>1.96</b>	<b>2.22</b>	<b>8.45</b>	<b>8.78</b>

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

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Table 3

Average Annual Rate of Change<sup>1</sup>; Registered Psychiatric Nurses<sup>2</sup>  
in British Columbia by Registration Status by Regional Hospital District  
June 1981 to September 1983

Regional Hospital District	Active		Inactive		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>1.36</b>	<b>-0.34</b>	<b>5.72</b>	<b>3.95</b>	<b>2.56</b>	<b>0.84</b>
1 Alberni-Clayoquot	*	*	*	*	*	*
2 Bulkley-Nechako	*	*	*	*	3.62	1.57
4 Cariboo	*	*	*	*	19.75	17.52
5 Central Coast	*	*	*	*	*	*
6 Central Fraser Valley	5.43	2.62	2.19	-0.53	4.48	1.70
7 Central Kootenay	*	*	*	*	10.43	9.52
8 Central Okanagan	-7.16	-8.69	6.11	4.37	-2.25	-3.87
9 Columbia-Shuswap	*	*	*	*	*	*
10 Comox-Strathcona	*	*	*	*	*	*
11 Cowichan Valley	*	*	*	*	0.00	-1.47
12 Dewdney-Alouette	3.62	2.23	4.33	2.92	3.77	2.37
13 East Kootenay	*	*	*	*	3.94	2.16
14 Fraser-Cheam	-10.57	-11.47	*	*	-7.46	-8.39
15 Fraser-Fort George	-12.69	-14.28	*	*	0.00	-1.82
17 Kitimat-Stikine	-1.50	-3.31	*	*	0.00	-1.85
18 Kootenay Boundary	11.31	11.02	*	*	15.56	15.26
19 Mount Waddington	*	*	*	*	*	*
20 Nanaimo	*	*	*	*	0.00	-1.94
21 North Okanagan	-6.62	-8.23	7.09	5.24	-3.73	-5.39
22 Okanagan-Similkameen	13.64	12.24	*	*	4.33	3.04
23 Peace River-Liard	*	*	*	*	*	*
24 Powell River	*	*	*	*	*	*
25 Skeena-Queen Charlotte	*	*	*	*	*	*
26 Squamish-Lillooet	*	*	*	*	*	*
27 Stikine	*	*	*	*	*	*
28 Sunshine Coast	*	*	*	*	*	*
29 Thompson-Nicola	-1.16	-2.55	0.00	-1.41	-0.96	-2.35
<b>Metropolitan - Subtotal</b>	<b>1.90</b>	<b>1.14</b>	<b>7.79</b>	<b>6.98</b>	<b>3.17</b>	<b>2.40</b>
3 Capital	-0.81	-1.47	28.24	27.39	4.33	3.64
16 Greater Vancouver	2.19	1.41	6.14	5.32	3.06	2.26
<b>TOTAL</b>	<b>1.70</b>	<b>0.49</b>	<b>6.88</b>	<b>5.60</b>	<b>2.94</b>	<b>1.70</b>

<sup>1</sup> A twenty-seven-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.

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## **RESPIRATORY TECHNOLOGISTS**



## RESPIRATORY TECHNOLOGISTS

**Definition:** A respiratory technologist;

"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>

**Date of Record:** October 1983.

**Source of Data:** The British Columbia Society of Respiratory Technologists.<sup>2</sup>

**Preparation and Updating:**

The table, derived solely from the membership list supplied by the British Columbia Society of Respiratory Technologists, includes members who reported a B.C. mailing address at the date of record. In addition, there are 29 students, 4 associates, and 1 retired member.

Due to changes in the method of compiling the membership list, comparison between 1981 and 1983 figures would be misleading. Accordingly, only 1983 figures appear in the table.

---

<sup>1</sup>*Canadian Classification and Dictionary of Occupations 1980*. Major Group 31, No. 3159-134, p. 68, Ottawa: Employment and Immigration Canada.

<sup>2</sup>Compulsory registration and/or licensure do not exist. Membership in the British Columbia Society of Respiratory Technologists is voluntary.

*Active Respiratory Technologists  
per 10,000 Population  
by Regional Hospital District  
October 1983*

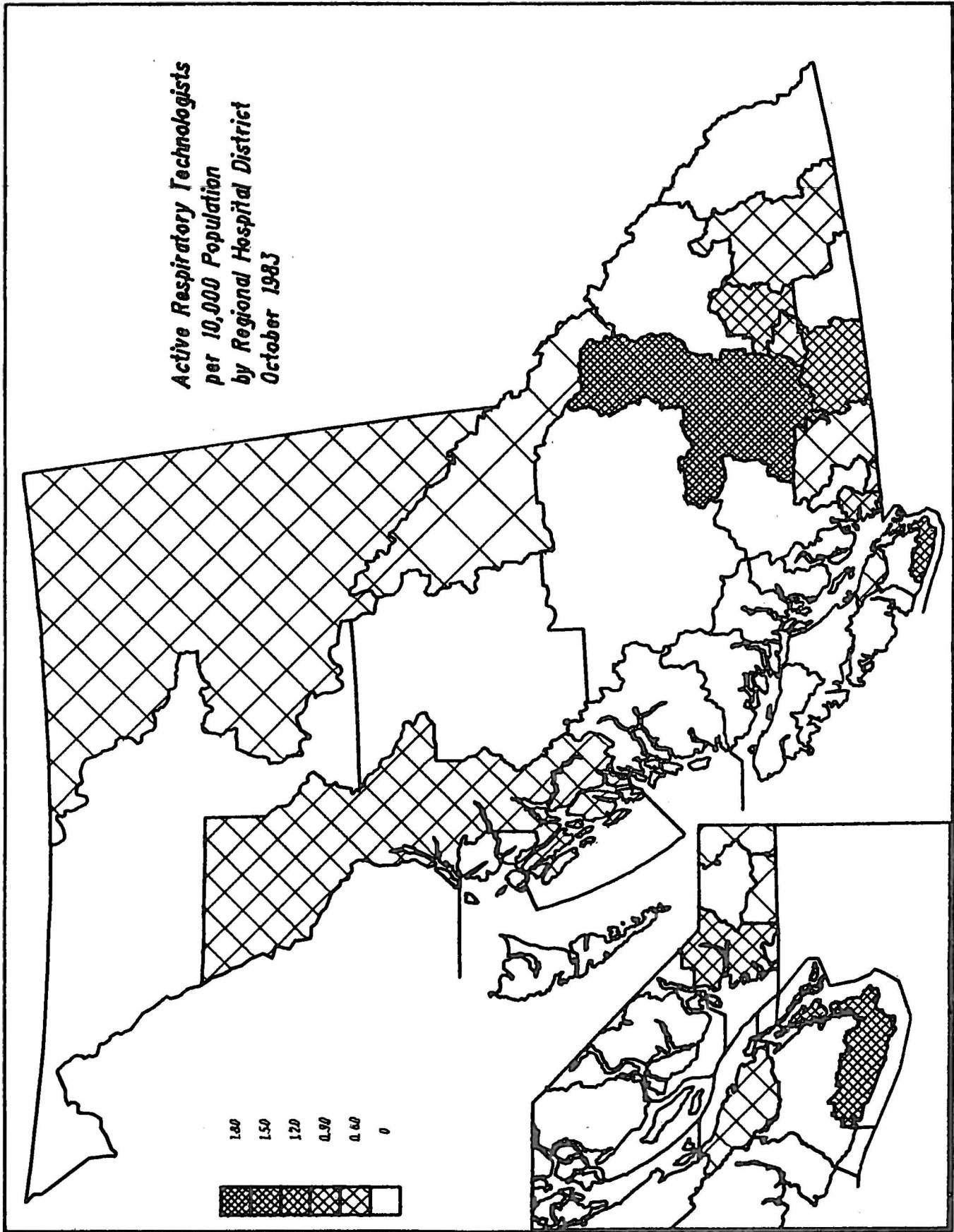


Table 1

Active Respiratory Technologists<sup>1</sup> in British Columbia

## by Regional Hospital District

October 1983

<u>Regional Hospital District</u>		<u>Number</u>	<u>Number per 10,000 population</u>
<b>Non-Metropolitan - Subtotal</b>		<b>39</b>	<b>0.28</b>
1	Alberni-Clayoquot	0	0.0
2	Bulkley-Nechako	0	0.0
4	Cariboo	0	0.0
5	Central Coast	0	0.0
6	Central Fraser Valley	2	0.16
7	Central Kootenay	1	0.19
8	Central Okanagan	3	0.34
9	Columbia-Shuswap	0	0.0
10	Comox-Strathcona	0	0.0
11	Cowichan Valley	0	0.0
12	Dewdney-Alouette	0	0.0
13	East Kootenay	0	0.0
14	Fraser-Cheam	1	0.17
15	Fraser-Fort George	1	0.11
17	Kitimat-Stikine	1	0.23
18	Kootenay Boundary	0	0.0
19	Mount Waddington	0	0.0
20	Nanaimo	2	0.25
21	North Okanagan	3	0.53
22	Okanagan-Similkameen	5	0.85
23	Peace River-Liard	1	0.17
24	Powell River	0	0.0
25	Skeena-Queen Charlotte	0	0.0
26	Squamish-Lillooet	0	0.0
27	Stikine	0	0.0
28	Sunshine Coast	0	0.0
29	Thompson-Nicola	19	1.80
<b>Metropolitan - Subtotal</b>		<b>83</b>	<b>0.57</b>
3	Capital	30	1.18
16	Greater Vancouver	53	0.45
<b>TOTAL</b>		<b>122</b>	<b>0.43</b>

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

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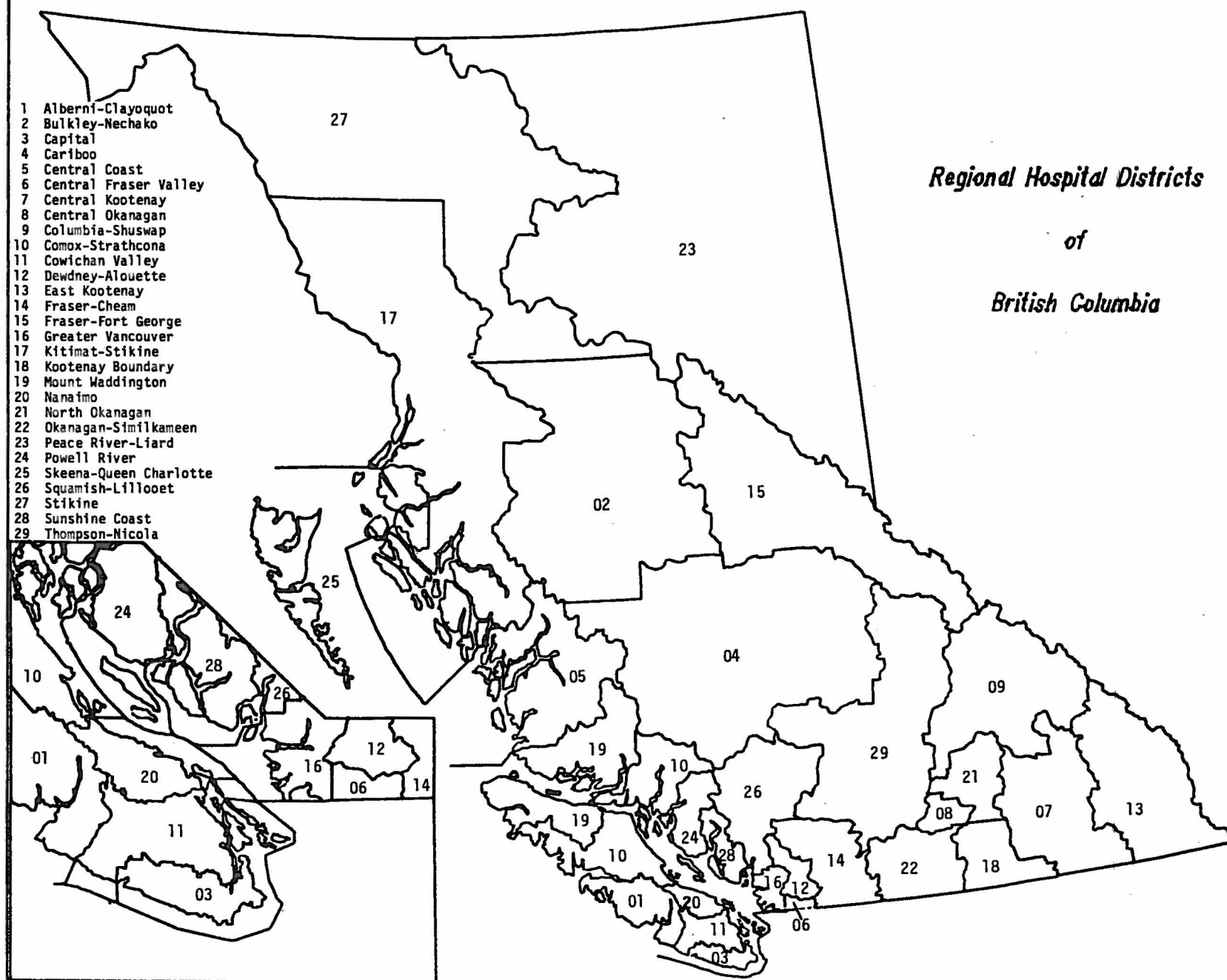
## APPENDICES



**APPENDIX A**  
**MAP OF REGIONAL HOSPITAL DISTRICTS**

*Regional Hospital Districts  
of  
British Columbia*

- 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-Liard
- 24 Powell River
- 25 Skeena-Queen Charlotte
- 26 Squamish-Lillooet
- 27 Stikine
- 28 Sunshine Coast
- 29 Thompson-Nicola



## **APPENDIX B**

### **B.C. POPULATION BY REGIONAL HOSPITAL DISTRICT**

**Table 1**                      **Population<sup>1</sup> of British Columbia**  
**by Regional Hospital District**  
**1981 and 1983**

<u>Regional Hospital District</u>		<u>1981</u>	<u>1983</u>
<b>Non-Metropolitan - Subtotal</b>		<b>1,325,163</b>	<b>1,376,415</b>
1	Alberni-Clayoquot	32,558	33,030
2	Bulkley-Nechako	38,309	40,069
4	Cariboo	59,252	61,810
5	Central Coast	3,047	3,146
6	Central Fraser Valley	115,012	122,228
7	Central Kootenay	52,045	53,017
8	Central Okanagan	85,237	88,485
9	Columbia-Shuswap	40,131	41,762
10	Comox-Strathcona	68,621	71,818
11	Cowichan Valley	52,701	54,484
12	Dewdney-Alouette	62,004	63,926
13	East Kootenay	53,723	55,859
14	Fraser-Cheam	56,934	58,254
15	Fraser-Fort George	89,431	93,211
17	Kitimat-Stikine	42,400	44,216
18	Kootenay Boundary	33,232	33,429
19	Mount Waddington	14,671	15,528
20	Nanaimo	77,101	80,571
21	North Okanagan	54,352	56,523
22	Okanagan-Similkameen	57,185	58,805
23	Peace River-Liard	55,463	59,182
24	Powell River	19,364	19,521
25	Skeena-Queen Charlotte	24,023	24,911
26	Squamish-Lillooet	18,928	19,586
27	Stikine	1,953	2,051
28	Sunshine Coast	15,503	15,690
29	Thompson-Nicola	101,983	105,291
<b>Metropolitan - Subtotal</b>		<b>1,419,304</b>	<b>1,443,564</b>
3	Capital	249,473	253,229
16	Greater Vancouver	1,169,831	1,190,335
<b>TOTAL</b>		<b>2,744,467</b>	<b>2,819,979</b>

<sup>1</sup> The 1981 figures are from the 1981 Canadian Census data.  
The 1983 figures are interpolated from the 1981 figures and  
the 1986 Central Statistics Bureau Population Projection.

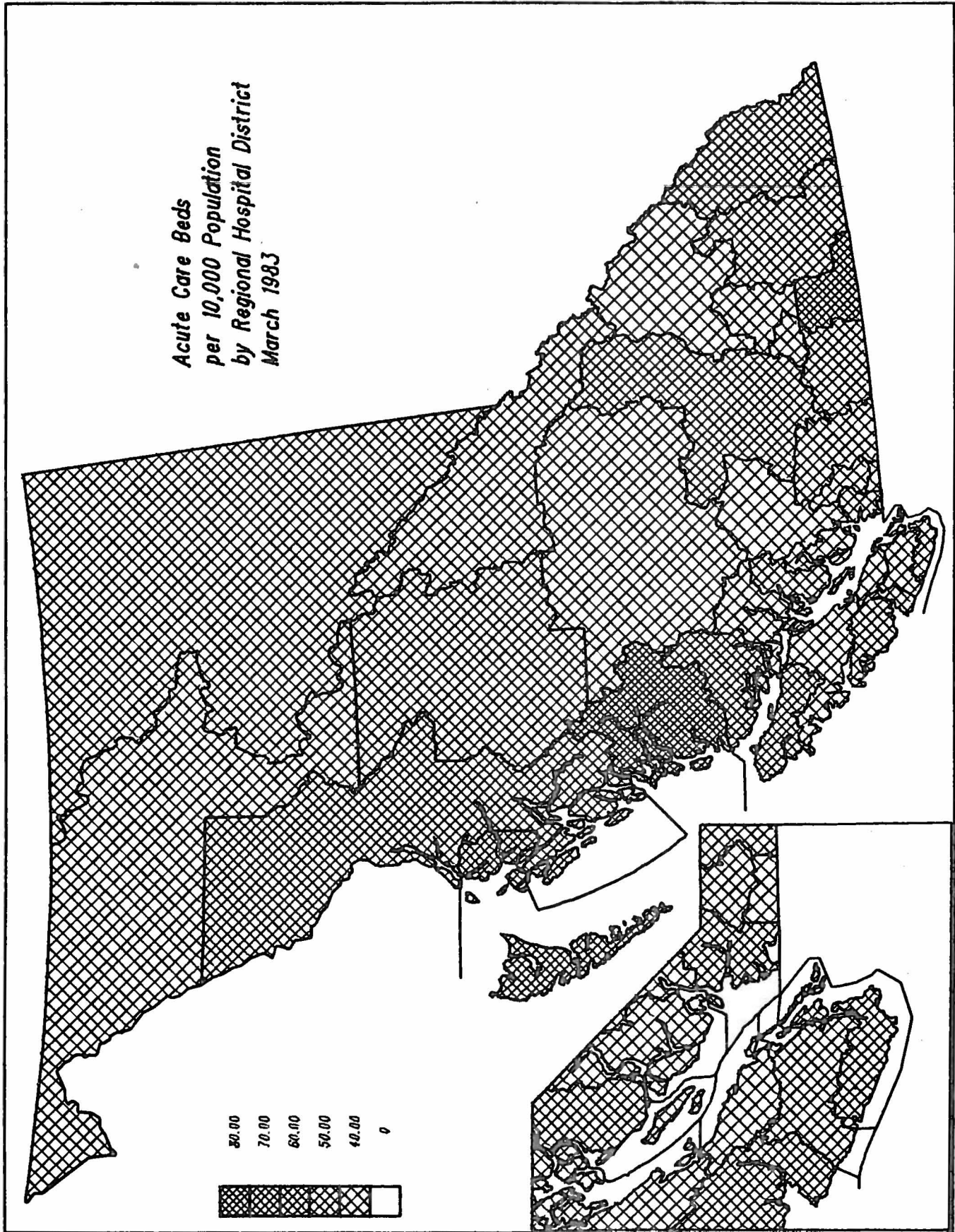
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## **APPENDIX C**

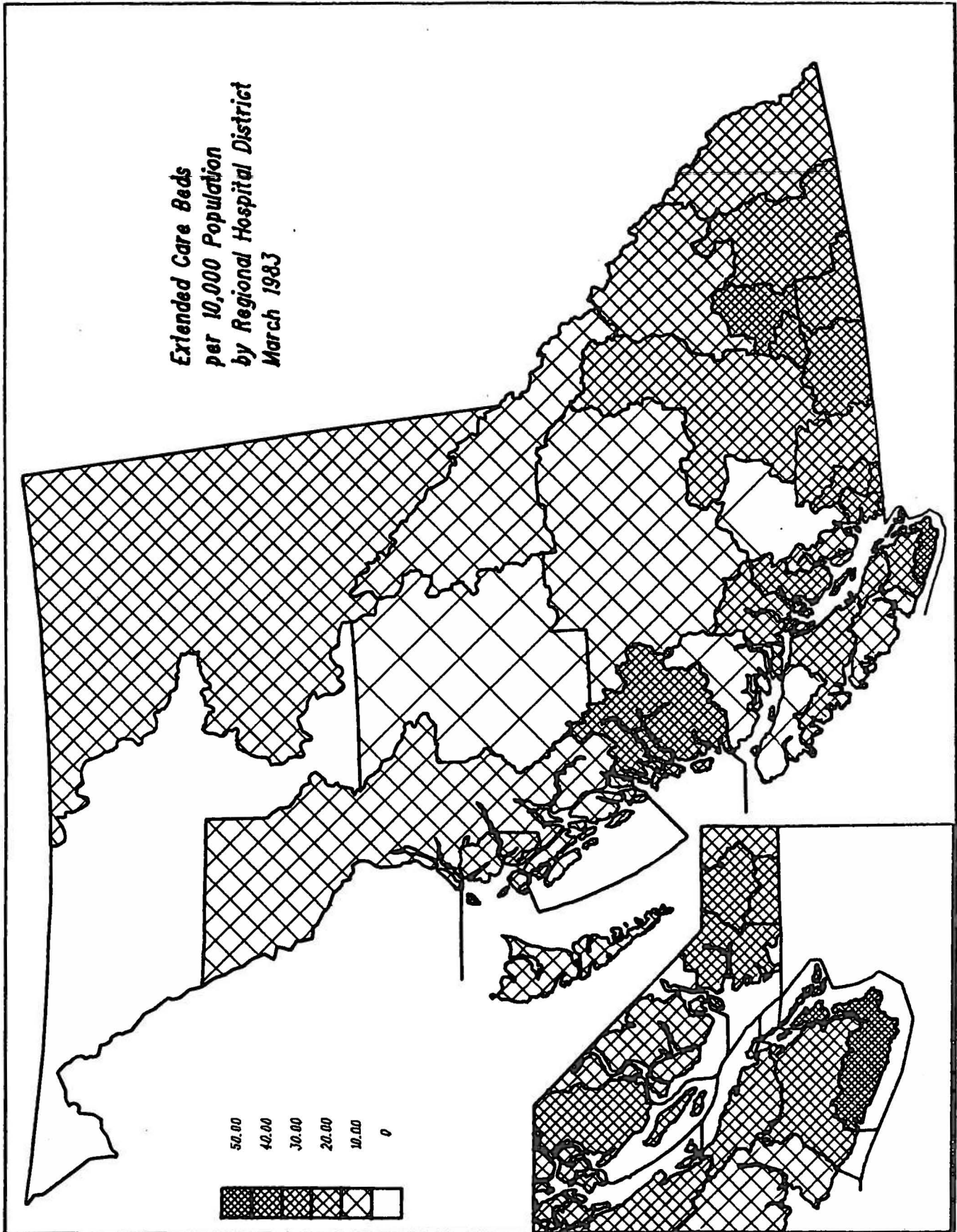
### **HOSPITAL BED CAPACITY IN BRITISH COLUMBIA BY REGIONAL HOSPITAL DISTRICT**



*Acute Care Beds  
per 10,000 Population  
by Regional Hospital District  
March 1983*



*Extended Care Beds  
per 10,000 Population  
by Regional Hospital District  
March 1983*



*Bassinets  
per 10,000 Population  
by Regional Hospital District  
March 1983*

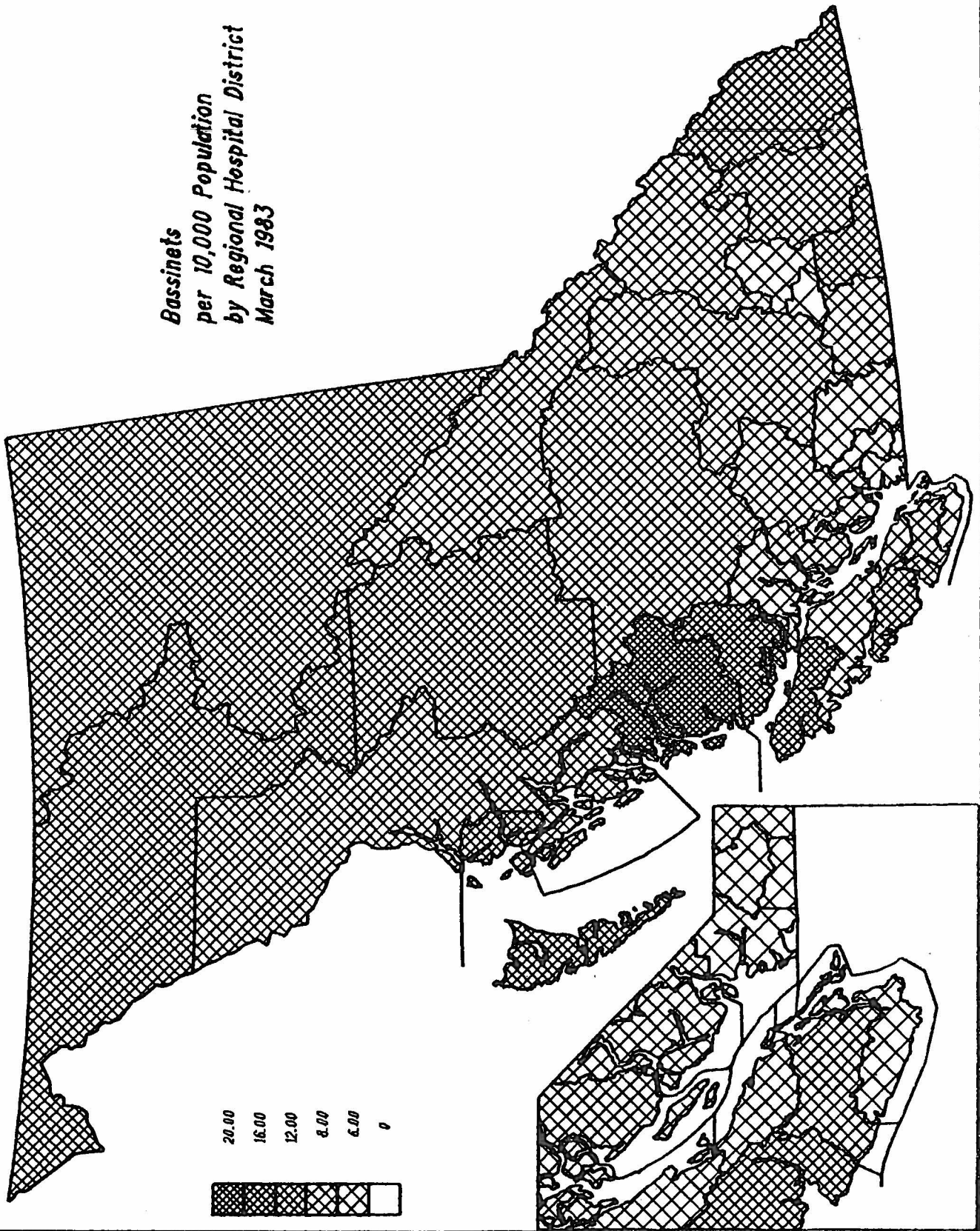


Table 1

**Rated Hospital Bed Capacity<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**March 1981 and March 1983**

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds	
	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>5,341</b>	<b>5,077</b>	<b>1,978</b>	<b>2,311</b>	<b>835</b>	<b>845</b>	<b>0</b>	<b>0</b>
1 Alberni-Clayoquot	139	139	30	32	30	30	0	0
2 Bulkley-Nechako	192	157	13	13	36	36	0	0
4 Cariboo	202	201	40	40	47	47	0	0
5 Central Coast	29	26	6	9	6	6	0	0
6 Central Fraser Valley	303	339	225	275	42	42	0	0
7 Central Kootenay	245	216	123	116	39	39	0	0
8 Central Okanagan	286	281	221	251	20	20	0	0
9 Columbia-Shuswap	129	113	48	48	26	26	0	0
10 Comox-Strathcona	247	225	81	118	34	36	0	0
11 Cowichan Valley	197	192	110	110	37	36	0	0
12 Dewdney-Alouette	190	215	125	150	24	24	0	0
13 East Kootenay	252	245	69	75	49	49	0	0
14 Fraser-Cheam	232	219	95	95	25	25	0	0
15 Fraser-Fort George	374	319	77	62	57	65	0	0
17 Kitimat-Stikine	213	201	33	33	38	36	0	0
18 Kootenay Boundary	236	231	92	80	28	28	0	0
19 Mount Waddington	70	82	6	6	16	21	0	0
20 Nanaimo	274	232	85	140	39	39	0	0
21 North Okanagan	194	173	101	200	24	24	0	0
22 Okanagan-Similkameen	252	252	143	148	33	33	0	0
23 Peace River-Liard	256	221	54	54	52	52	0	0
24 Powell River	86	77	44	44	12	12	0	0
25 Skeena-Queen Charlotte	153	148	22	27	30	28	0	0
26 Squamish-Lillooet	56	55	3	3	12	12	0	0
27 Stikine	7	7	0	0	2	2	0	0
28 Sunshine Coast	48	48	22	22	8	8	0	0
29 Thompson-Nicola	479	463	110	160	69	69	0	0
<b>Metropolitan - Subtotal</b>	<b>6,695</b>	<b>5,886</b>	<b>4,025</b>	<b>4,136</b>	<b>530</b>	<b>455</b>	<b>486</b>	<b>415</b>
3 Capital	1,224	1,016	1,318	1,341	87	95	139	140
16 Greater Vancouver	5,471	4,870	2,707	2,795	443	360	347	275
<b>TOTAL</b>	<b>12,036</b>	<b>10,963</b>	<b>6,003</b>	<b>6,447</b>	<b>1,365</b>	<b>1,300</b>	<b>486</b>	<b>415</b>

<sup>1</sup> Source: B.C. Hospital Programs, Ministry of Health.

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 Health Manpower Research Unit  
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Table 2

**Rated Hospital Bed Capacity<sup>1</sup> in British Columbia**  
**per 10,000 Population by Regional Hospital District**  
**March 1981 and March 1983**

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds	
	1981	1983	1981	1983	1981	1983	1981	1983
<b>Non-Metropolitan - Subtotal</b>	<b>40.30</b>	<b>36.89</b>	<b>14.93</b>	<b>16.79</b>	<b>6.30</b>	<b>6.14</b>	<b>0.0</b>	<b>0.0</b>
1 Alberni-Clayoquot	42.69	42.08	9.21	9.69	9.21	9.08	0.0	0.0
2 Bulkley-Nechako	50.12	39.18	3.39	3.24	9.40	8.98	0.0	0.0
4 Cariboo	34.09	32.52	6.75	6.47	7.93	7.60	0.0	0.0
5 Central Coast	95.18	82.64	19.69	28.61	19.69	19.07	0.0	0.0
6 Central Fraser Valley	26.35	27.74	19.56	22.50	3.65	3.44	0.0	0.0
7 Central Kootenay	47.07	40.74	23.63	21.88	7.49	7.36	0.0	0.0
8 Central Okanagan	33.55	31.76	25.93	28.37	2.35	2.26	0.0	0.0
9 Columbia-Shuswap	32.14	27.06	11.96	11.49	6.48	6.23	0.0	0.0
10 Comox-Strathcona	35.99	31.33	11.80	16.43	4.95	5.01	0.0	0.0
11 Cowichan Valley	37.38	35.24	20.87	20.19	7.02	6.61	0.0	0.0
12 Dewdney-Alouette	30.64	33.63	20.16	23.46	3.87	3.75	0.0	0.0
13 East Kootenay	46.91	43.86	12.84	13.43	9.12	8.77	0.0	0.0
14 Fraser-Cheam	40.75	37.59	16.69	16.31	4.39	4.29	0.0	0.0
15 Fraser-Fort George	41.82	34.22	8.61	6.65	6.37	6.97	0.0	0.0
17 Kitimat-Stikine	50.24	45.46	7.78	7.46	8.96	8.14	0.0	0.0
18 Kootenay Boundary	71.02	69.10	27.68	23.93	8.43	8.38	0.0	0.0
19 Mount Waddington	47.71	52.81	4.09	3.86	10.91	13.52	0.0	0.0
20 Nanaimo	35.54	28.79	11.02	17.38	5.06	4.84	0.0	0.0
21 North Okanagan	35.69	30.61	18.58	35.38	4.42	4.25	0.0	0.0
22 Okanagan-Similkameen	44.07	42.85	25.01	25.17	5.77	5.61	0.0	0.0
23 Peace River-Liard	46.16	37.34	9.74	9.12	9.38	8.79	0.0	0.0
24 Powell River	44.41	39.44	22.72	22.54	6.20	6.15	0.0	0.0
25 Skeena-Queen Charlotte	63.69	59.41	9.16	10.84	12.49	11.24	0.0	0.0
26 Squamish-Lillooet	29.59	28.08	1.58	1.53	6.34	6.13	0.0	0.0
27 Stikine	35.84	34.13	0.0	0.0	10.24	9.75	0.0	0.0
28 Sunshine Coast	30.96	30.59	14.19	14.02	5.16	5.10	0.0	0.0
29 Thompson-Nicola	46.97	43.97	10.79	15.20	6.77	6.55	0.0	0.0
<b>Metropolitan - Subtotal</b>	<b>47.17</b>	<b>40.77</b>	<b>28.36</b>	<b>28.65</b>	<b>3.73</b>	<b>3.15</b>	<b>3.42</b>	<b>2.87</b>
3 Capital	49.06	40.12	52.83	52.96	3.49	3.75	5.57	5.53
16 Greater Vancouver	46.77	40.91	23.14	23.48	3.79	3.02	2.97	2.31
<b>TOTAL</b>	<b>43.86</b>	<b>38.88</b>	<b>21.87</b>	<b>22.86</b>	<b>4.97</b>	<b>4.81</b>	<b>1.77</b>	<b>1.47</b>

<sup>1</sup> Source: B.C. Hospital Programs, Ministry of Health.

Prepared by:

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Table 3

**Average Annual Rate of Change in Rated Hospital Bed Capacity<sup>1</sup>**  
**in British Columbia by Regional Hospital District**  
**March 1981 to March 1983**

Regional Hospital District	Acute Care Beds		Extended Care Beds		Bassinets		Rehabilitation Beds	
	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>-2.50</b>	<b>-4.34</b>	<b>8.09</b>	<b>6.06</b>	<b>0.60</b>	<b>-1.29</b>	*	*
1 Alberni-Clayoquot	0.0	-0.72	3.28	2.54	0.0	-0.72	*	*
2 Bulkley-Nechako	-9.57	-11.58	0.0	-2.22	0.0	-2.22	*	*
4 Cariboo	-0.25	-2.33	0.0	-2.09	0.0	-2.09	*	*
5 Central Coast	-5.31	-6.82	*	*	*	*	*	*
6 Central Fraser Valley	5.77	2.60	10.55	7.24	0.0	-3.00	*	*
7 Central Kootenay	-6.10	-6.97	-2.89	-3.78	0.0	-0.92	*	*
8 Central Okanagan	-0.88	-2.71	6.57	4.60	0.0	-1.85	*	*
9 Columbia-Shuswap	-6.41	-8.25	0.0	-1.97	0.0	-1.97	*	*
10 Comox-Strathcona	-4.56	-6.71	20.70	17.98	2.90	0.58	*	*
11 Cowichan Valley	-1.28	-2.91	0.0	-1.65	-1.36	-2.99	*	*
12 Dewdney-Alouette	6.38	4.76	9.54	7.89	0.0	-1.51	*	*
13 East Kootenay	-1.40	-3.30	4.26	2.24	0.0	-1.93	*	*
14 Fraser-Cheam	-2.84	-3.95	0.0	-1.14	0.0	-1.14	*	*
15 Fraser-Fort George	-7.65	-9.54	-10.27	-12.11	6.79	4.60	*	*
17 Kitimat-Stikine	-2.86	-4.87	0.0	-2.08	-2.67	-4.69	*	*
18 Kootenay Boundary	-1.06	-1.36	-6.75	-7.02	0.0	-0.30	*	*
19 Mount Waddington	8.23	5.20	*	*	14.56	11.36	*	*
20 Nanaimo	-7.98	-9.99	28.34	25.54	0.0	-2.18	*	*
21 North Okanagan	-5.57	-7.40	40.72	37.99	0.0	-1.94	*	*
22 Okanagan-Similkameen	0.0	-1.39	1.73	0.32	0.0	-1.39	*	*
23 Peace River-Liard	-7.09	-10.05	0.0	-3.19	0.0	-3.19	*	*
24 Powell River	-5.38	-5.76	0.0	-0.40	0.0	-0.40	*	*
25 Skeena-Queen Charlotte	-1.65	-3.42	10.78	8.79	-3.39	-5.13	*	*
26 Squamish-Lillooet	-0.90	-2.58	*	*	0.0	-1.69	*	*
27 Stikine	*	*	*	*	*	*	*	*
28 Sunshine Coast	0.0	-0.60	0.0	-0.60	*	*	*	*
29 Thompson-Nicola	-1.68	-3.24	20.60	18.69	0.0	-1.58	*	*
<b>Metropolitan - Subtotal</b>	<b>-6.24</b>	<b>-7.03</b>	<b>1.37</b>	<b>0.51</b>	<b>-7.35</b>	<b>-8.13</b>	<b>-7.59</b>	<b>-8.37</b>
3 Capital	-8.89	-9.57	0.87	0.12	4.50	3.72	0.36	-0.39
16 Greater Vancouver	-5.65	-6.47	1.61	0.73	-9.85	-10.63	-10.98	-11.75
<b>TOTAL</b>	<b>-4.56</b>	<b>-5.85</b>	<b>3.63</b>	<b>2.24</b>	<b>-2.41</b>	<b>-3.73</b>	<b>-7.59</b>	<b>-8.84</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.

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## **APPENDIX D**

### **RETAIL PHARMACIES IN BRITISH COLUMBIA BY REGIONAL HOSPITAL DISTRICT**



Table 1

**Retail Pharmacies<sup>1</sup> in British Columbia**  
**by Regional Hospital District**  
**September 1981 and September 1983**

D-1

Regional Hospital District	Number		Number Per 10,000 Population		Annual Rate of Change	
	1981	1983	1981	1983	Number <sup>2</sup>	Ratio <sup>3</sup>
<b>Non-Metropolitan - Subtotal</b>	<b>269</b>	<b>278</b>	<b>2.03</b>	<b>2.02</b>	<b>1.66</b>	<b>-0.25</b>
1 Alberni-Clayoquot	7	7	2.15	2.12	*	*
2 Bulkley-Nechako	8	8	2.09	2.00	*	*
4 Cariboo	10	10	1.69	1.62	0.00	-2.09
5 Central Coast	1	1	3.28	3.18	*	*
6 Central Fraser Valley	20	21	1.74	1.72	2.47	-0.60
7 Central Kootenay	12	13	2.31	2.45	4.08	3.12
8 Central Okanagan	17	19	1.99	2.15	5.72	3.76
9 Columbia-Shuswap	8	9	1.99	2.16	*	*
10 Comox-Strathcona	12	12	1.75	1.67	0.00	-2.25
11 Cowichan Valley	10	10	1.90	1.84	0.00	-1.65
12 Dewdney-Alouette	11	10	1.77	1.56	-4.65	-6.10
13 East Kootenay	12	13	2.23	2.33	4.08	2.07
14 Fraser-Cheam	10	10	1.76	1.72	0.00	-1.14
15 Fraser-Fort George	15	15	1.68	1.61	0.00	-2.05
17 Kitimat-Stikine	8	8	1.89	1.81	*	*
18 Kootenay Boundary	9	9	2.71	2.69	*	*
19 Mount Waddington	5	5	3.41	3.22	*	*
20 Nanaimo	18	19	2.33	2.36	2.74	0.50
21 North Okanagan	10	10	1.84	1.77	0.00	-1.94
22 Okanagan-Similkameen	14	15	2.45	2.55	3.51	2.07
23 Peace River-Liard	9	9	1.62	1.52	*	*
24 Powell River	3	3	1.55	1.54	*	*
25 Skeena-Queen Charlotte	5	5	2.08	2.01	*	*
26 Squamish-Lillooet	7	7	3.70	3.57	*	*
27 Stikine	0	0	0.0	0.0	*	*
28 Sunshine Coast	6	7	3.87	4.46	*	*
29 Thompson-Nicola	22	23	2.16	2.18	2.25	0.63
<b>Metropolitan - Subtotal</b>	<b>318</b>	<b>335</b>	<b>2.24</b>	<b>2.32</b>	<b>2.64</b>	<b>1.77</b>
3 Capital	54	56	2.16	2.21	1.84	1.08
16 Greater Vancouver	264	279	2.26	2.34	2.80	1.91
<b>TOTAL</b>	<b>587</b>	<b>613</b>	<b>2.14</b>	<b>2.17</b>	<b>2.19</b>	<b>0.81</b>

<sup>1</sup> Not including Hospital and Special Pharmacies.<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 Manpower Research Unit  
 The University of British Columbia



