PROVINCE OF BRITISH COLUMBIA

DEPARTMENT OF ENVIRONMENT

HON. JAMES A. NIELSEN, *Minister* W. R. REDEL, *Assistant Deputy Minister of Lands*

REPORT

of the

LANDS SERVICE

YEAR ENDED DECEMBER 31

1975

Printed by K. M. MACDONALD, Printer to the Queen's Most Excellent Majesty
in right of the Province of British Columbia.
1976

Panoramic view of industrial foreshore lease at Powell River.

VICTORIA, B.C., MARCH 1976

To Colonel the Honourable WALTER S. OWEN, Q.C., LL.D.,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I beg respectfully to submit the Annual Report of the British Columbia Lands Service of the Department of Lands, Forests, and Water Resources and Department of Environment for the year ended December 31, 1975.

JAMES A. NIELSEN
Minister of Environment

VICTORIA, B.C., MARCH 1976

The Honourable JAMES A. NIELSEN,
Minister of Environment,
Victoria, B.C.

SIR: I have the honour to submit the Annual Report of the British Columbia Lands Service for the 12 months ended December 31, 1975.

W. R. REDEL
Assistant Deputy Minister of Lands

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BRITISH COLUMBIA LANDS SERVICE

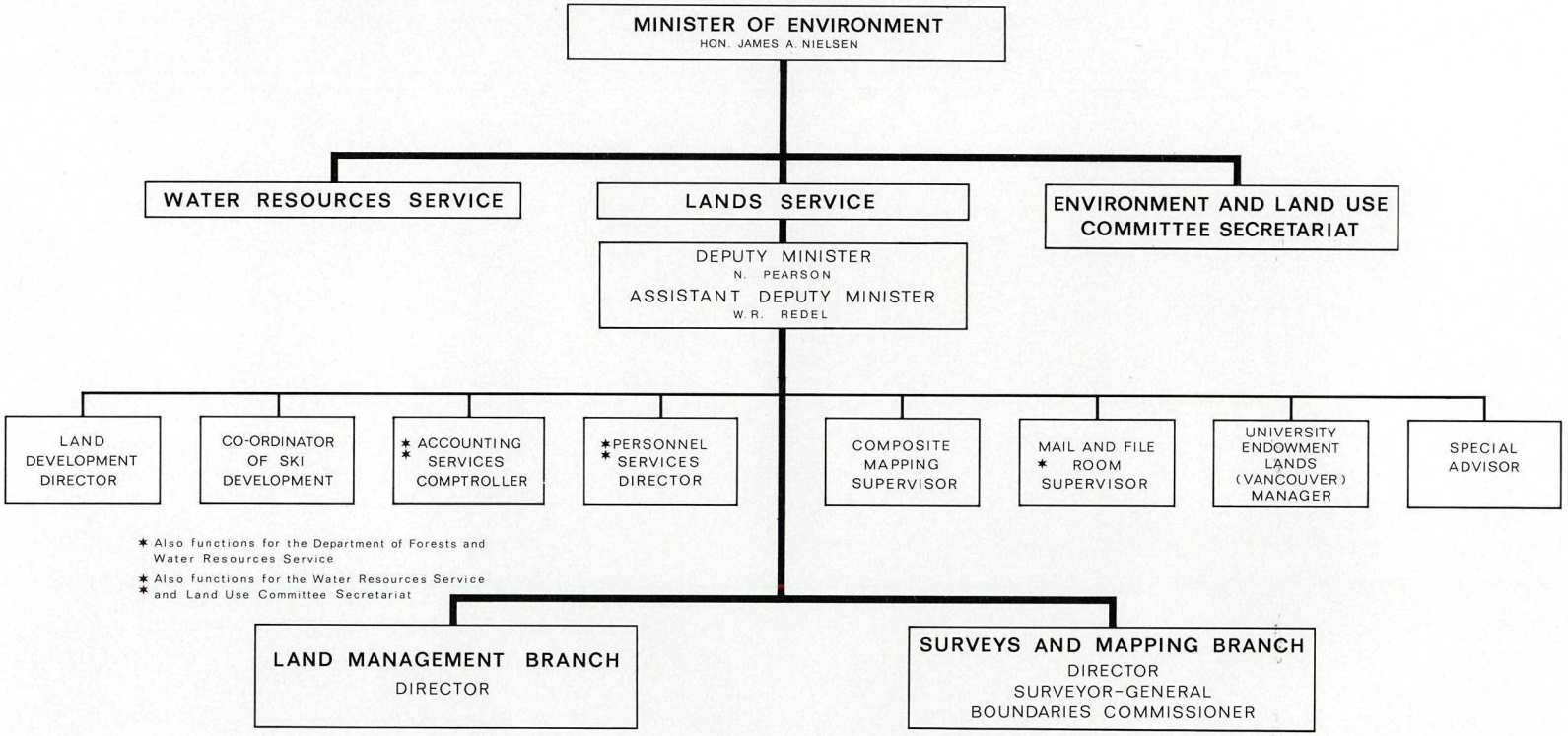
Personnel Directory
(As of December 31, 1975)

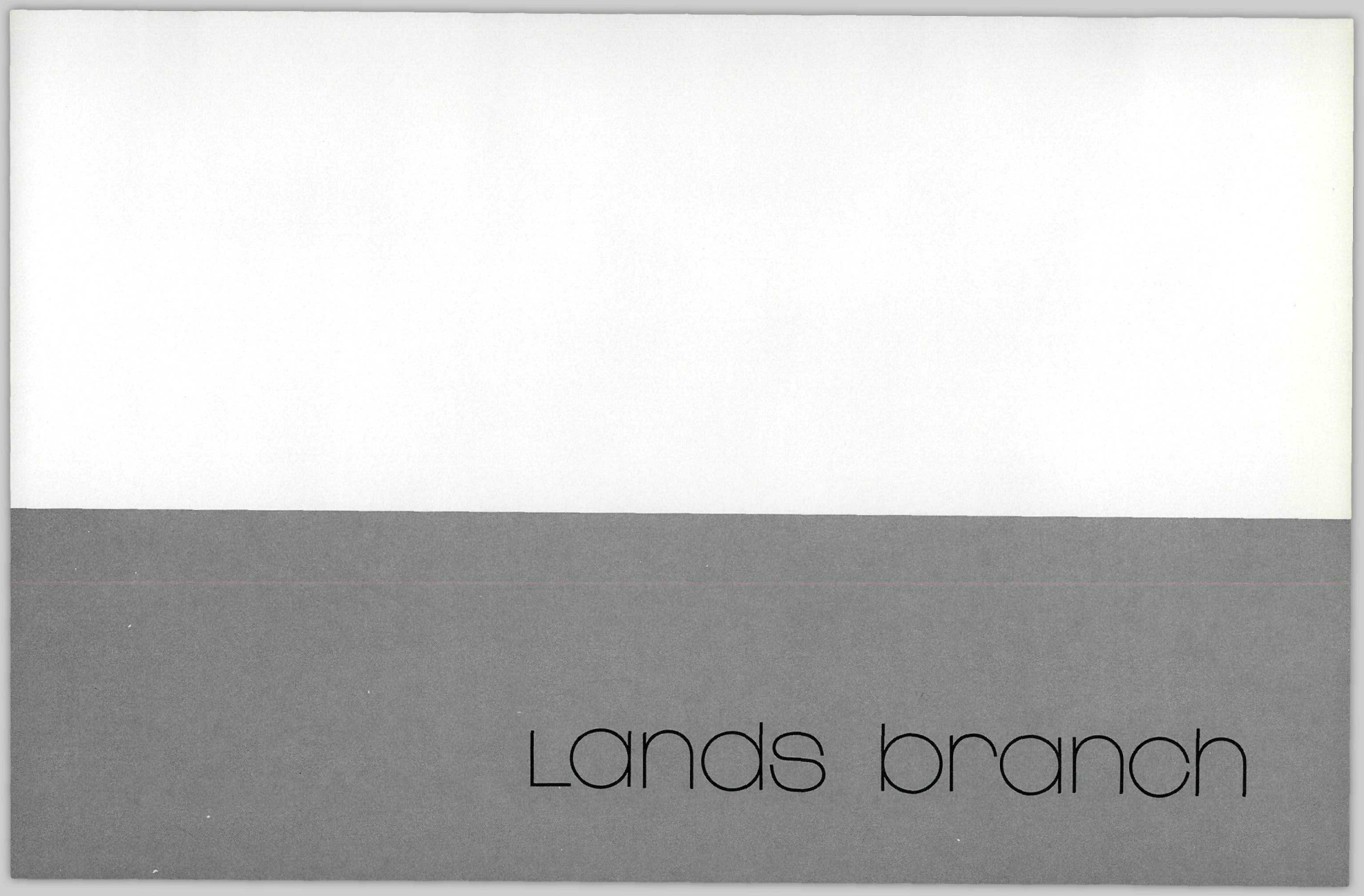
N. Pearson	Deputy Minister of Lands.
W. R. Redel	Assistant Deputy Minister of Lands.
D. Borthwick	Special Adviser.
J. Webster	Director, Land Developments.
A. E. Raines	Co-ordinator of Ski Developments.
K. R. MacKay	Comptroller, Accounting Services.
R. C. Webber	Director, Personnel Services.
J. M. MacKinlay	Supervisor, Composite Mapping.
D. S. Preston	Supervisor, Mail and File Room.
R. P. Murdoch	Manager, University Endowment Lands (Vancouver).
G. H. Wilson	Director, Land Management Branch.
A. Smith	Assistant Director, Policy Division.
D. Goodwin	Assistant Director, Special Programs Division.
A. Rhoades	Asssitant Director, Lower Coast Division.
F. Edgell	Assistant Director, Northern Division.
A. Paulsen	Assistant Director, Southern Interior Division.
W. J. Long	Office Manager.
Vacant	Director, Surveys and Mapping Branch.
M. Perks	Data Processing and Research.
D. F. Pearson	Geographical Research, Geographical Names.
W. A. Taylor	Chief, Legal Surveys Division.
R. W. Thorpe	Supervising Surveyor.
A. D. Wight	Chief, Field Operations Division.
K. M. Bridge	Supervising Surveyor.
E. R. McMinn	Chief, Map Production Division.
E. S. W. Andrews	Assistant Chief, Map Production Division.

BRITISH COLUMBIA LANDS SERVICE
DEPARTMENT OF ENVIRONMENT

VICTORIA, B. C.

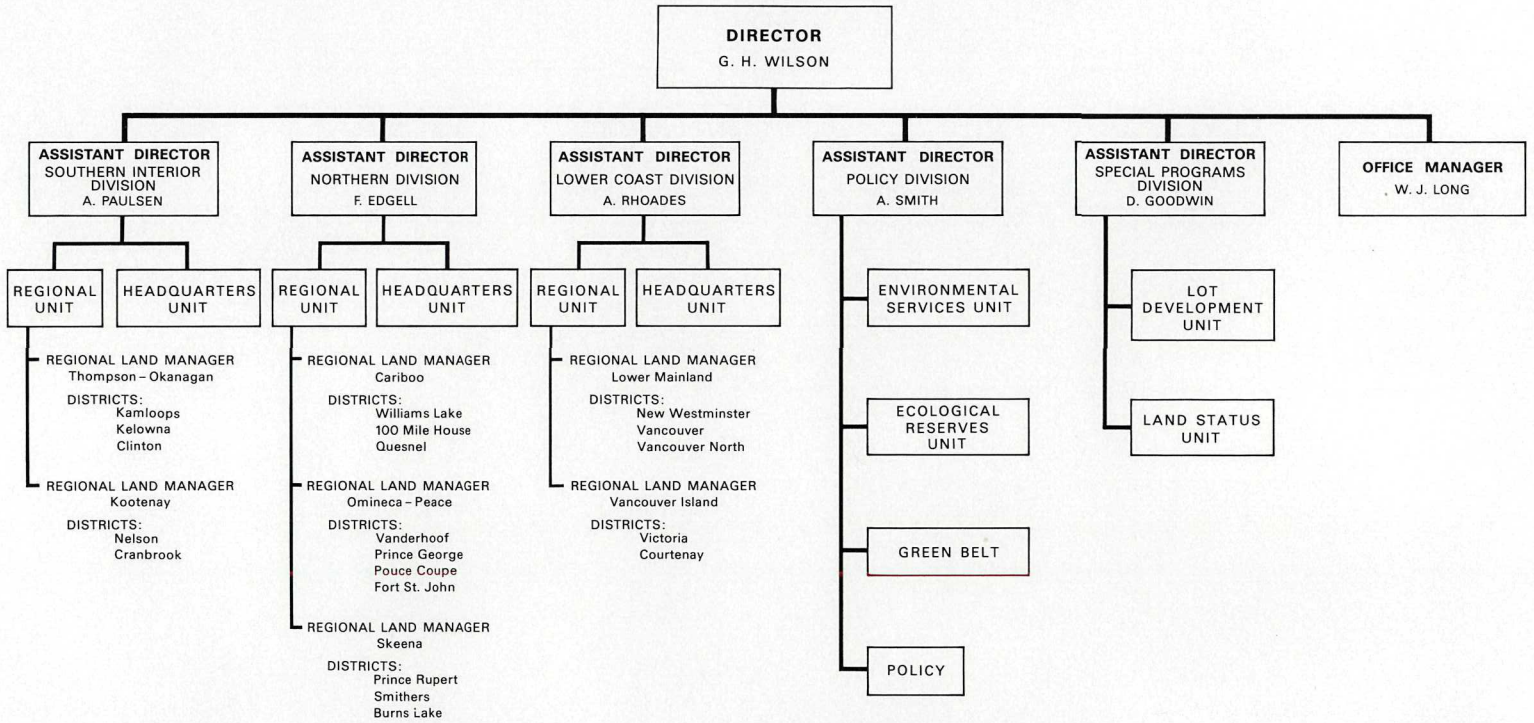
YEAR ENDING DECEMBER 31, 1975




Lands branch

LAND MANAGEMENT BRANCH

YEAR ENDING DECEMBER 31, 1975.



LAND MANAGEMENT BRANCH

INTRODUCTION

The structure and role of the former Lands Branch was changed substantially in 1975 in line with new policy directions developed by the Department. The Land Management Branch was created early in 1975 by restructuring the former Land Administration, Land Inspection, and Special Services Divisions into five new divisions each under the supervision of an Assistant Director with headquarters in Victoria.

One of the five divisions, the Policy Division, is responsible for formulation, statement, and continuing review of Land Management Branch policies, the Ecological Reserve program, administrative functions of the *Green Belt Protection Fund Act* (1972), and for providing, through the Environmental Services Unit, advice on the biological, ecological, and environmental aspects of Crown land management.

The second division, the Special Programs Division, has, as a first priority, the provision of unserviced rural residential Crown lots up to approximately 5 acres in size in subdivision units of about 20 lots. A second priority is to provide subdivisions up to approximately 10 per cent of the total developed, with water, and, if necessary, sewer systems. Provision of recreational, commercial, and industrial subdivisions is given the lowest priority. A land status unit of the Special Programs Division provides land status information for the Lands Service, other Government departments, Crown agencies and corporations, as well as agencies outside the Government.

The remaining three, the Northern, Southern Interior, and Lower Coast Divisions, are responsible for regional management. Each of these three divisions takes in two land management regions with the exception of the Northern Division, which covers three regions. The boundaries of the land management regions are coterminous with seven newly established resource management regions, namely, Kootenay, Thompson-Okanagan, Lower Mainland, Vancouver Island, Cariboo, Skeena, and Omineca-Peace Resource Management Regions. Kootenay and Thompson-Okanagan Land Management Regions are administered by the Southern Interior Division; the Lower Mainland and Vancouver Island Regions fall within the Lower Coast Division; while the Cariboo, Skeena, and Omineca-Peace Regions are administered by the Northern Division. Each region is divided into land management districts, of which there are 20 in the seven regions.

These changes have produced a significant shift of emphasis away from what tended in the past to be a custodial role toward a much broader managerial function providing for greater concentration on socio-economic factors in Crown land use and management. Well-qualified personnel were appointed to fill the newly created positions of Regional Land Manager in each of the seven regional resource centres. With these new regional staff members the Branch is expected to play a significant role in the operation of the regional resource management committees which have been set up in the seven resource management regions. Regional Land Managers will be responsible, in co-operation with other senior resource managers, for determining the relative social and economic importance of competing uses for Crown land, selecting areas suitable for various essential uses such as housing, devising land management plans, and for recommending the best allocation of the Crown land resource which will have the least negative effect on other resource uses.

In order to deal with land use matters in a more expeditious and efficient manner the majority of the support staff now in Victoria will be gradually transferred to the regions as required to carry out job functions which previously have been carried out only at headquarters. The new regional structure is designed to facilitate decentralization of land management responsibilities.

Though decentralization of administration has so far only been on a limited scale because of the lack of trained staff and an adequate communication and data exchange system, the effect of having all applications for Crown land processed and screened through the regional land offices is already evident in that fewer applications were received in the Victoria headquarters during 1975 and fewer disallowed.

Management of existing tenures continues to utilize a major portion of staff time; however, increasing emphasis is being placed on management programs in land-use planning and Crown land development. By the end of the year, regional resource management committees, regional land management subcommittees, and co-ordinated resource management committees had been set up and were operating in most of the regions. Statistical summary tables for the Land Management Branch may be found at the end of this Report.

Highlights of the three Regional Management Divisions are summarized in point form under the headings of the seven land management regions as follows:

REGIONAL SUMMARIES

NORTHERN DIVISION

Cariboo Region

A new district office was opened at 100 Mile House on September 1, 1975.

The regional boundary was realigned to include an extensive coastal area west of Tweedsmuir Provincial Park.

Six residential subdivisions comprising 173 lots are proceeding to development under the Lots and Sites program.

A management plan was completed for the 10,000-acre Hallis Lake pasture reserve and management plans are under way in six other areas totalling 158,000 acres.

The Indian land claims issue continued to frustrate land management decisions in the Nazko-Narcosli, western Chilcotin, and Alkali Lake areas.

Omineca-Peace Region

Management plans were adopted for the Cecil Lake, Beatton-Doig, and Groundbirch pasture reserves encompassing 180,000 acres. Planning is well advanced in three others covering 52,000 acres of Crown land.

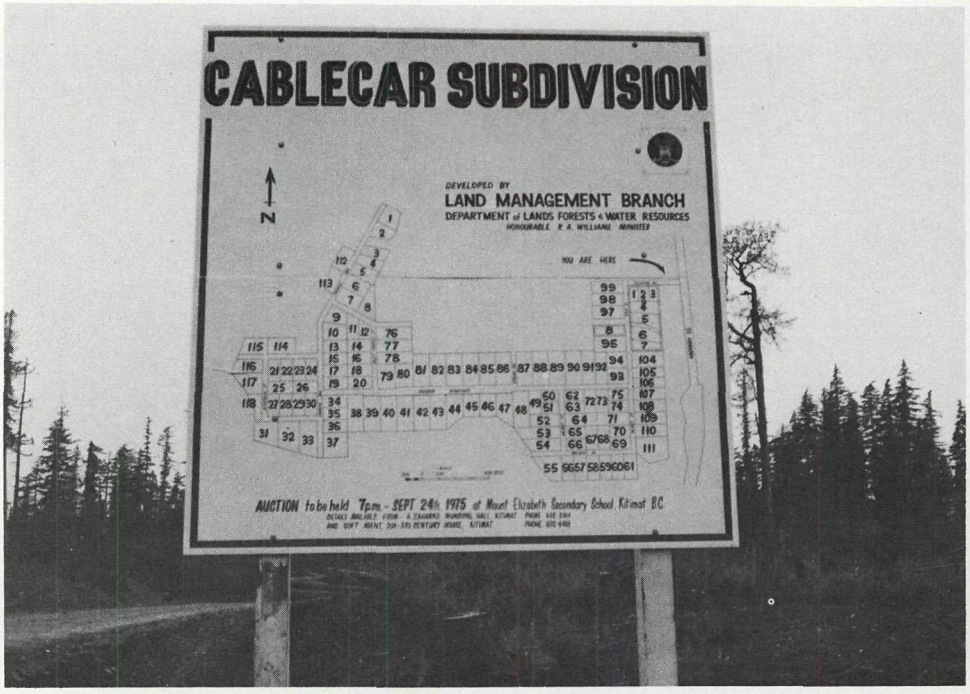
Phase I development of the Del Rio project was completed. The project will open 13,000 acres of prime agricultural land for settlement.

An interdepartmental review of the agricultural land reserve within the Peace River Block recommended boundary adjustments to remove large areas of Crown land unsuitable for agricultural development.

Five residential subdivisions currently under development will provide 170 homesites. Another 230 lots are at an advanced stage of planning.

Installation of water line, Cablecar Subdivision, Kitimat.

Knarston Creek (Superior Road) Subdivision north of Nanaimo, showing paved road.



Cablecar Subdivision, Kitimat.

Cablecar Subdivision, Kitimat, road under construction.

Skeena Region

Settlement areas for remote homesites were designated in the vicinity of Atlin, Dease Lake, and Telegraph Creek. Interagency concurrence is being sought for similar proposals near Ealue Lake and Tsaybahe Creek on the Stewart–Cassiar Highway. Sites for commercial subdivisions are also being examined in proposed service centres along the highway.

The Regional Resource Committee processed six park proposals and 23 ecological reserve proposals, including an 82,000-acre ecological reserve near Cold Fish Lake.

Cablecar Subdivision near Kitimat was leased by public auction and direct post-auction application. Appraised value of the 118 residential lots exceeds $1 million.

An agreement was concluded with the Department of Housing and the Central Mortgage and Housing Corporation for a Remote Housing Program in the Crown subdivision at Dease Lake.

SOUTHERN INTERIOR DIVISION

Thompson-Okanagan Region

The Lac du Bois-Batchelor Hills Land Use Study near Kamloops was adopted and a management committee was established to oversee its recommendations.

A Crown land management study on the lower Adams River was to be completed early in 1976 and the Bonaparte Plateau study was finished. Action is pending on the recommendations given in the reports.

The Southern Okanagan Lands Project, which had been administered by the Water Resources Service for many years, was returned to the Lands Service.

Permits were issued for removal of weed growth in Okanagan Lake. The weed control program is being carried out by the Water Resources Service.

A review and report were completed on rentals of lake-front lands held under lease for commercial resort purposes.

Gravel removed under permit from a small designated area in the bed of the Thompson River in the Kamloops District yielded royalties of approximately $13,000 in 1975.

Kootenay Region

Preliminary studies have been started on 30 sites considered to have potential for rural subdivision. Small land use studies on the Lower Arrow, South Slocan, and Cartwright Lakes areas were also initiated.

A study was initiated and letter of intent granted to the City of Cranbrook permitting a major effluent-disposal project on Crown land east of Cranbrook. Under controlled conditions this proposal could provide the solution to the local cattle-growers' demands for a cheap and readily available source of forage.

An evaluation study was made of the Cartwright Lakes area in the East Kootenay to clarify the needs of the Forest Service under a timber sale application.

LOWER COAST DIVISION

Vancouver Island Region

Action was taken under section 54 of the *Land Act* in two separate incidents. One involved removal of logs stored in trespass on a river estuary, and the other,

removal of a retaining-wall and boat-handling works which had been constructed on Crown foreshore without authority.

A total of 31 trespass cases of Crown land or foreshore was inspected and reported on in 1975.

A study of the Campbell River estuary was begun. It will determine optimum uses that can exist in harmony with the estuary's natural processes.

Of all inspections by the field staff in this region in 1975, 58 per cent were located on foreshore.

Lower Mainland Region

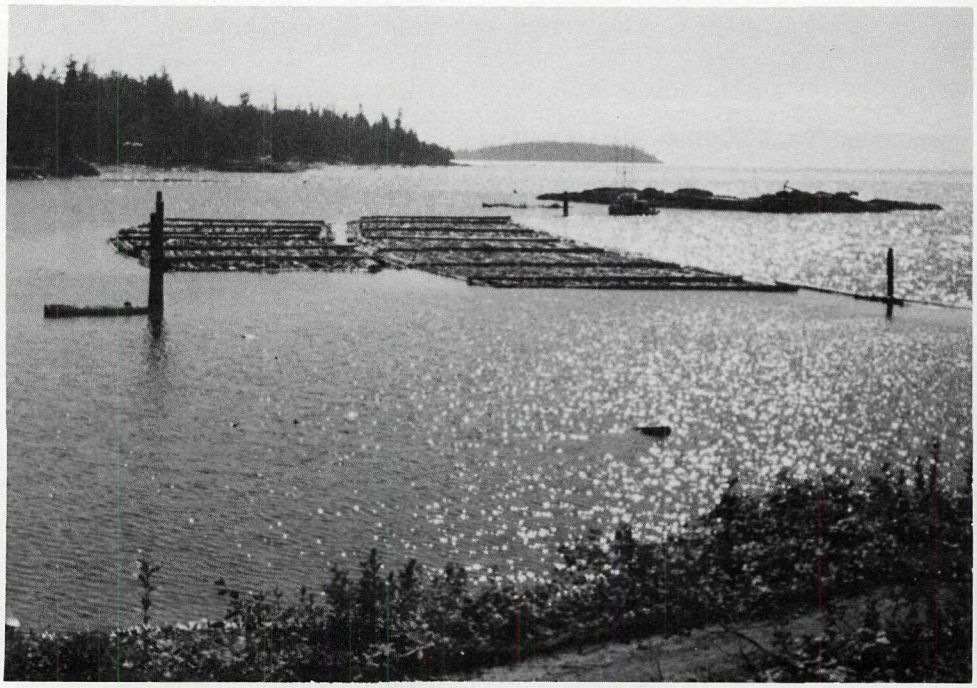
One Crown subdivision of 32 residential lots was completed, while two more were initiated and planning is in progress.

A land use study of Gambier Island and the surrounding foreshore was commenced in order to review present use and potential capabilities.

The gravel control program continued during 1975 and permits authorizing the removal of 469,538 cubic yards of gravel from Crown lands, including the bed of the Fraser River, were issued yielding $184,940 in royalties and permit fees. The program was expanded from the Fraser River to include the Howe Sound, Squamish, and Whistler Mountain areas.

The Whistler Mountain Resort Municipality was incorporated in 1975. The Regional and District Land Managers were called upon to assist the Co-ordinator of Ski Developments in getting the municipality operational.

Plans were advanced toward getting the Brohm Ridge-Mount Garibaldi Glacier Resorts into operation.



Log-storage lease, Howe Sound.

POLICY DIVISION

Branch policy is subject to continuing review and in this regard specific mention is made of the following items implemented during the year.

In order to protect potential farm lands, a policy was established that all agricultural leases over land not currently within an agricultural land reserve under the *Land Commission Act* will only be issued under the condition that the lands may at any time be included within an agricultural land reserve if considered desirable by the B.C. Land Commission.

In a move to make revenues from rentals and fees more realistic, a general review of all minimum rentals and fees was undertaken and rates increased to more realistic levels. Also, a study of the rental structure for easements and rights-of-way resulted in rental revisions.

A routing procedure was worked out to deal with appeals covering Crown lands in agricultural land reserves. These now may be made directly to the Land Commission under section 10 (4) (*d*) of the *Land Commission Act*.

The policy memoranda on agricultural leases and grazing leases were revised and printed for general distribution, while auction and tender notices were changed to show what services are available in the Crown subdivisions being offered. Land Series Bulletin No. 11—*The Disposition of Crown Lands in British Columbia* was also revised and reprinted.

Policy assistance of a more specific nature included development of a referral system for Crown land applications when they are within the area covered by the Islands Trust; development of a new ski-lease policy which is now under way; and assistance in drafting and reviewing a publication being prepared by the Lands Directorate, Environment Canada, on the subject of Land Use Programs in Canada-British Columbia.

The ecological reserves program within the Ecological Reserves Unit had its best year since the *Ecological Reserves Act* was promulgated in 1971, largely because the program now has a full-time Co-ordinator. Eighteen new reserves were gazetted, bringing the total to 74, and the acreage more than doubled to 198,229. Included in that number were the first marine (underwater) reserves at Victoria (Ten Mile Point) and Satellite Channel. Following extensive field work in the Spatsizi Plateau region, a large ecological reserve, 82,000 acres, was created at Gladys Lake in the Spatsizi Plateau Wilderness Park. The 24,300-acre reserve at Port Chanal-Hippa Island on the Queen Charlotte Islands was dedicated as the V. J. Krajina Ecological Reserve in honour of the man who has made the greatest single contribution to the program.

Regulations for the scientific use of ecological reserves were passed by Order in Council and gazetted.

Major efforts were made in telling the public about reserves and assistance was given to the National Film Board, which is doing a feature-length film on reserves in British Columbia.

The Green Belt Unit of the Policy Division administers the *Green Belt Protection Fund Act* (1972). Since the Fund was established, 88 properties have been purchased, involving 20,001.66 acres at a cost of $21,108,499. Three properties, involving 336.59 acres, have been "gifted" to the Green Belt land inventory. A number of purchases have involved a joint program between the Provincial Land Commission and regional districts for purchase of selected high-priority sites. One ongoing program which will provide public access to shore land involves purchase of right-of-way for the Boundary Bay dyke.

The Environmental Services Unit continued to provide advice on the biological, ecological, and environmental aspects of Crown land management. Areas

of emphasis include analysis of environmental impacts of development projects, resolution of conflicts in Crown land use, promotion of integrated resource planning, and development of environmental land management policies.

Staff of the Unit represented the British Columbia Lands Service on several intergovernmental committees such as the Environment Canada Task Force to review the Mackenzie Valley pipe-line application, Roberts Bank Expansion Environmental Assessment Panel, and the Haines Highway Reconstruction Environmental Assessment Panel. Staff also serve on the Mines Reclamation Committee, Outdoor Recreation Co-ordinating Committee, Aquatic Weed Committee, Forest Pest Committee, and the Salmon Enhancement Review Committee. The Environmental Services Unit also played a review role at the proposal stage of various projects such as Nicola to Cranbrook electrical transmission-line, Hat Creek Thermal Development Study, Revelstoke–Downie dam development, extensions from the Mackenzie Valley pipe-line, Westcoast Transmission Ltd. main pipe-line extension, Meziadin Lake railway assessment, and the Saanichton Bay marina proposal. The Unit also played a managerial role in determining the environmental impacts relative to the Oyster River access channel, Prince Rupert Industrial Park foreshore, Carcross–Skagway Highway, Kitwanga to Meziadin Highway, Haines Road reconstruction, Lower Englishman River environmental and social assessment, two bulk terminal sites in the Prince Rupert area, steel mill and cement plant projects on the Mainland, a site location assessment for spray irrigation of sewage effluent disposal, and the Batchelor Hills environmental overview.

Planning studies were continued on the Ladysmith Harbour foreshore, Comox Harbour foreshore, Campbell River estuary, and Shuswap Lake foreshore.

In addition to servicing Departmental requests, the Environmental Services Unit also provided external advisory services to other Provincial departments, Crown agencies, and regional districts.

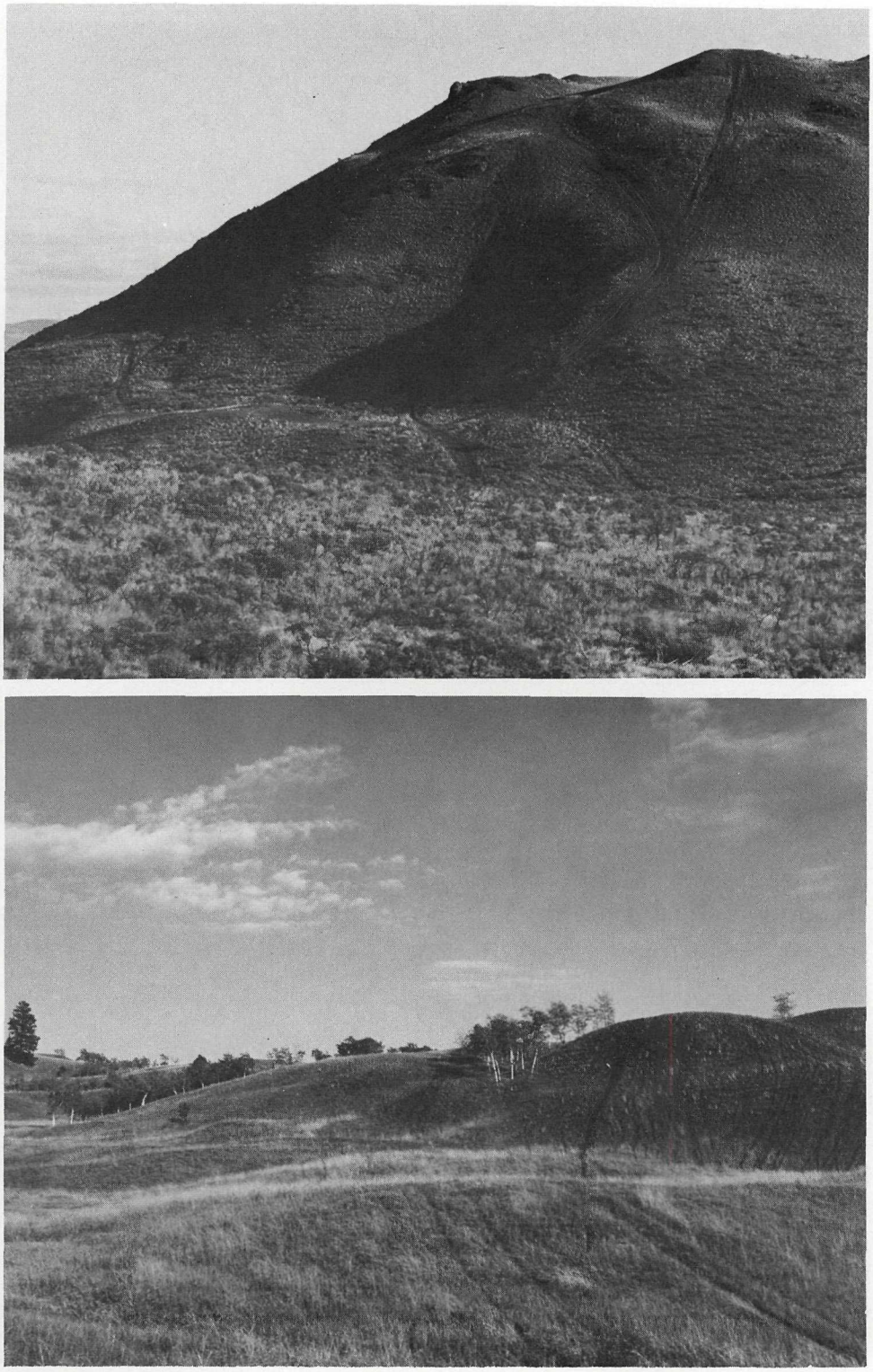
SPECIAL PROGRAMS DIVISION

Seventy-five subdivisions were under study during 1975, of which 15 were developed or upgraded for auction. A total of 20 subdivisions totalling 434 lots was auctioned or prepared for auction. Cablecar Subdivision near Kitimat, with 118 residential and three commercial lots, all serviced with a community water supply, was the largest project worked on in 1975. The District Municipality of Kitimat assisted in preparation of this subdivision.

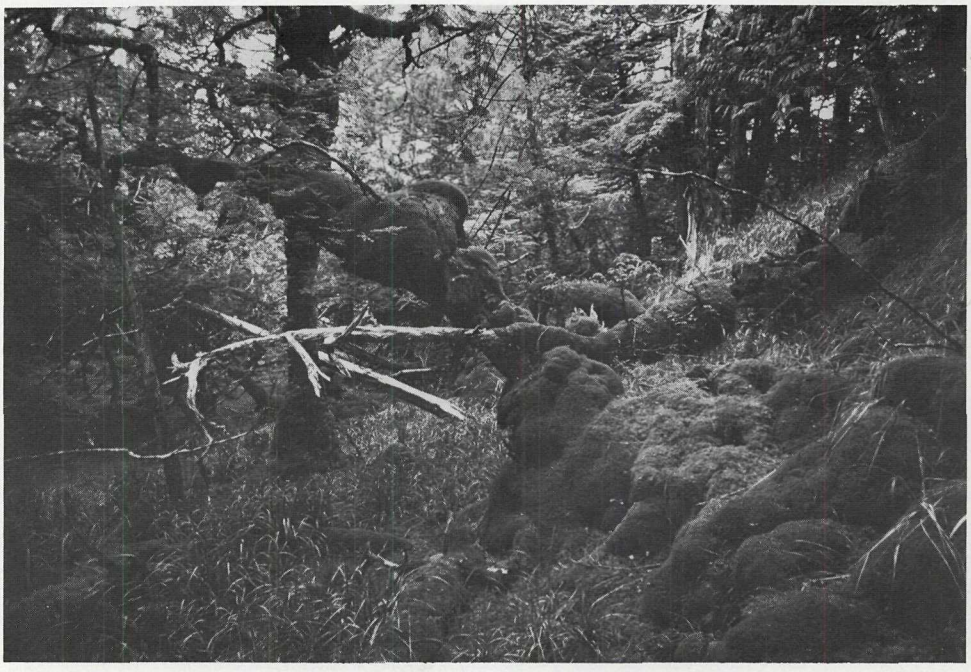
Site selection for the commercial core of Whistler Resort Municipality and possible relocation of the residential section of Ocean Falls were investigated. An inspection was carried out to pinpoint possible sites for service centres along the Stewart–Cassiar Highway. Near Quesnel and at Mackenzie, contracts were let for well drilling and pumping tests to prove groundwater supplies, while a short sewer extension was designed to serve Crown lots in the Village of Midway. Other design projects included road construction for the Nazko Road Subdivision near Quesnel, review of a design contract for a reservoir, pumphouse, and road and storm drainage for Cablecar Subdivision and water services to the ski cabin area at Whistler.

During 1975 a total of 23,729 parcels of land was checked through the records by the Land Status Unit and there was a notable upsurge in the number of status requests by oil companies in connection with their oil and gas drilling projects.

Preparation of status maps on mylar base transparencies were suspended during 1975 because of the need to recheck and verify the maps previously prepared. It is expected that production will resume in 1976. Status maps require constant revision and amendment to keep them up to date.



Batchelor Hill area north of Kamloops; note trail bike tracks.



V. J. Krajina Ecological Reserve, Port Chanal, Q.C.I.

Ecological reserve near Cecil Lake.

Information concerning the status of Crown land parcels is recorded in the Official Land Registers and over the years since the Colonial period a multitude of entries has been made, in many instances without any systematic method being used. In 1974 a start was made, experimentally, on rewriting the Official Land Registers onto loose-leaf forms which were designed to replace the Registers and to be the source documents for key-punching data for inclusion in a computer system. Though funds have not been provided yet to code the information for computer use, the Status Unit is continuing to rewrite the Registers manually in a format which enables status particulars to be extracted more efficiently.

Recompiling the Registers requires a check of all existing written records, unravelling complexities, weeding out dead material, rewriting the current status of each parcel of Crown land, and including relevant past history as required.

Work began on preparing details of Crown leases and easements in a form suitable for inclusion in an electronic data processing system. Price Waterhouse Associates, a firm of management consultants, was contracted to design and write the computer programming for the lease-easement project. To date, over 14,000 leases have been coded and their particulars key-punched onto computer tape or disks. This project is being regularly updated as new leases are issued and existing ones amended. The project is designed for fast data retrieval and is to be used as a basis for billing for lease and easement rental payments. Coding of approximately 2,000 easements was about one-third complete at the end of the year.

Subdivision Lots Auctioned or Ready for Auction in 1975

Land Management Region	Subdivision	Lots
Vancouver Island	Superior Road	3
	Port Hardy	33
Lower Mainland	Powell River	32
Thompson-Okanagan	Princeton Airport	7
Kootenay	Hosmer (near Fernie)	5
	Westbridge	5
	Midway	4
Cariboo	Sulphurous Lake (recreational)	90
	Southwest of Williams Lake	3
Skeena	Cablecar (Kitimat)	121
	Dease Lake	23
	Smithers Landing[1]	13
	Masset[1]	10
Omenica-Peace	Fort Nelson (Mile 307.5)	2
	Fort Nelson (Mile 303)	33
	Pink Mountain	8
	Beryl Prairie[1]	11
	Kenzie (near Dawson Creek)[1]	3
	Lebel (near Dawson Creek)[1]	11
	Summit Lake	7
	Bear Lake	10

[1] Existing subdivisions which were upgraded by the installation of additional services.

Land Status Section

Parcels Statused	
Acreage parcels	16,029
Town lots	7,502
Special statuses	198
Lake-frontage	*Nil*
Total	23,729

Register Entries	Documents	Entries
Total	6,149	9,629

Approved Land Sales, 1975

	Acres
Surveyed	64,584.51

Certificates of Purchase Issued, 1975

Agency	Number	Acreage
Atlin	5	12.00
Burns Lake	33	2,351.91
Clinton	33	411.59
Cranbrook	7	46.69
Dawson Creek	41	16,155.93
Fernie	14	337.63
Fort Nelson	29	27.84
Fort St. John	81	31,752.38
Golden	3	115.75
Kamloops	16	113.35
Kaslo	3	3.13
Nanaimo	32	147.54
Nelson	1	0.34
New Westminster	20	118.69
Penticton	26	109.13
Port Alberni	8	29.59
Prince George	24	1,854.10
Prince Rupert	25	134.46
Queen Charlotte City	*Nil*	*Nil*
Quesnel	33	1,453.03
Revelstoke	*Nil*	*Nil*
Smithers	18	679.19
Vancouver	18	356.04
Vernon	17	167.35
Victoria	7	319.45
Williams Lake	42	1,521.72
Totals	536	58,218.83

Easements Granted, 1975

	Number	Miles	Acres
Foreshore—			
Power-lines	2	2.573	18.377
Sewer-lines	2	0.020	0.071
Submarine telephone cable	4	15.979	351.261
Submarine power cable	1	1.469	97.96
Land—			
Power-lines	30	82.363	1,403.206
Radio sites	7	----------	62.63
Telephone-lines	1	----------	0.06
Sewer pipe-lines	2	.357	0.69
TV antenna sites and power-lines	1	7.77	194.0
Effluent-disposal site	1	0.186	0.566
Underground telephone cables	2	1.518	2.293
Water pipe-line	1	0.294	0.520
Road and bridge site	1	0.492	3.72
Gas pipe-line	1	----------	0.196
Totals	56	113.021	2,135.55

Crown Grants Issued, 1975

	Number	Acreage
Purchases (rural lands)	444	59,376.45
Purchases (town lots)	146	----------
Pre-emptions	22	3,442.35
Public Schools Act	4	17.31
Veterans' Land Settlement Act	2	160.92
Homesite leases	4	68.30
Supplementary timber grant	-----	----------
British Columbia Railway Company	22	495.58
Miscellaneous	24	990.06
Totals	668	64,550.97

Certified copies of Crown grants issued, 22.

Crown Grants Issued for Past 10 Years

	Number	Acreage
1966	1,020	115,917
1967	980	117,672
1968	957	129,307
1969	931	81,881
1970	708	38,412
1971	735	74,493
1972	694	59,279
1973	602	42,482
1974	637	66,629
1975	668	64,551
	7,932	790,623
Ten-year average	793	79,062

Reserves, 1975

	Applications Received	Reserves Completed
Use, recreation, and enjoyment of the public	77	34
B.C. Department of Highways (rights-of-way, gravel pits, bridge-sites, etc.)	75	74
Federal Government (defence purposes, wharf-sites, etc.)	44	26
B.C. Forest Service (Ranger stations, grazing, radio sites, reforestation, etc.)	73	78
Miscellaneous (Game Branch, water power projects, garbage dumps, school sites, cemeteries, etc.)	111	58
Totals	380	270

Free Crown Grants Issued in 1975

British Columbia Housing Management Commission for Residential Development Purposes

Crown Grant No. and Date	Acreage	Estimated Value	Location
		$	
6673/1137: May 16, 1975	49.60	50,000	Elkford.
6696/1137	72.20	216,600	Brackendale.
6619/1137	76.80	15,500	Fort Steele.
Totals	198.60	282,100	

City of Prince George for Residential Redevelopment

Crown Grant No. and Date	Acreage	Estimated Value	Location
		$	
6735/1138: June 17, 1975	TLs	11,640	Prince George.

Crown Grants Issued Under Chapter 34, Statutes of British Columbia, 1912, to the British Columbia Railway Company for Right-of-way Purposes

Crown Grant No. and Date	Acreage	Estimated Value	Location
		$	
6614/1137: April 2, 1975	65.62	5,000	East of Fort St. James.
6615/1137: March 27, 1975	3.46	1,730	Snyder Creek.
6618/1137: March 27, 1975	32.45	1,600	South of Pinchi Creek.
6790/1138: July 7, 1975	6.96	3,480	Fort Nelson River.
6707/1138: June 4, 1975	29.51	1,200	South of Pinchi Lake.
6843/1139: August 29, 1975	TL	3,000	Whiskey Creek.
6844/1139: August 21, 1975	4.25	6,000	Whiskey Creek.
6853/1139: August 29, 1975	69.99	3,500	Pinchi Creek—Stuart Lake.
6854/1139: August 29, 1975	2.20	3,200	Cuisson Creek.
6855/1139: August 29, 1975	1.23	1,845	Naver and Pedley Creeks.
6856/1139: August 29, 1975	4.22	6,000	Whiskey Creek.
6857/1139: August 29, 1975	12.30	8,400	Alexandria Station.
6858/1139: August 29, 1975	6.50	6,500	Alexandria Station.
6859/1139: August 29, 1975	1.01	3,000	Menyinger Creek.
6860/1139: August 28, 1975	2.40	3,500	Menyinger Creek.
6861/1139: August 28, 1975	14.00	9,000	Williams Lake.
6862/1139: August 28, 1975	4.30	4,300	Alexandria Station.
6863/1139: August 29, 1975	15.00	9,500	Dragon Station.
6864/1139: August 29, 1975	34.56	26,280	Chetwynd Village.
6826/1139: August 6, 1975	96.79	3,900	Stuart and Pinchi Lakes.
6834/1139: August 1, 1975	6.39	7,000	Whiskey Creek.
Totals	413.14	117,935	

Summary

	Acreage	Estimated Value $
British Columbia Housing Management Commission	198.60	282,100
Municipalities and Regional Districts	TL	11,640
British Columbia Railway Company	413.14	117,935
Totals	611.74	411,675

Exchanges, 1975

Crown Grant No. and Date	Name of Grantee	Acreage	Remarks
6599/1136: Mar. 17, 1975	The Corporation of the City of Cranbrook	2.43	The Department of Highways required an area for a future storage yard and the City of Cranbrook used the exchanged area for recreational purposes.
6667/1137: May 8, 1975	John Philip Stanley Harper	1.04	The exchange was effected to provide the Crown with a dyke right-of-way within the Oak Hills Subdivision.
6722/1138: June 10, 1975	The Town of Smithers	TL's	This exchange provided the Crown with property for a Provincial Courthouse site within the Town of Smithers and provided land to the Town of Smithers for park purposes.
7002/1141: Nov. 7, 1975	Morningside Beach Properties Ltd.	36.10	This exchange was made to provide Morningside with required access to their property and the Parks Branch to set aside an area for Green Belt Study purposes.

In addition to the volume of work shown in the statistical table which follows, the Branch also

converted 472 leases to purchase;

issued 576 certificates of purchase;

replied to 3,374 written general inquiries;

answered inquiries concerning 484 specific parcels of Crown land;

received 29,036 pieces of mail;

consented to construction of 35 access roads;

offered 529 lots for lease by public competition, of which 283 were taken up at a total bonus bid of $140,437;

issued 36 leases at the nominal consideration of $25 per lease for purposes in the public interest over Crown land with an estimated market value of $911,250.

General Summary

	1975	10-year Average, 1966–75
Certificates of improvements issued	12	29
Crown grants issued	668	794
Total acreage deeded by Crown grants	64,551	79,052
Number of new land sales	536	448
Value of new land sales	$1,225,161.77	$885,289
Number of leases issued	867	1,577
Total acreage leased	75,755	214,719
Licences of occupation issued	----------	32[1]
Easements issued	56	125
Reservations established	270	396
Land Act collections	$5,526,502.68	$3,950,338

[1] Average is for nine years. Record for 1975 incomplete as a result of restructuring.

New Leases Issued, 1975

	Acreage	No.
Land—		
Agriculture	19,180.58	72
Hay and grazing (pasture and hay-cutting)	50,251.72	138
Quarrying (sand, gravel, limestone, etc.)	299.34	14
Residential	655.28	238
Recreational cottage-site (inland)	60.77	80
Recreational cottage-site (waterfront)	99.23	98
Miscellaneous (resorts, service-stations, camp-sites)	2,266.36	78
Foreshore—		
Booming, log storage, log-dumping, etc.	1,748.58	81
Oyster	120.35	8
Industrial (canneries, millsite, wharves, etc.)	585.47	7
Quarrying (sand, gravel from sea or river beds)	*Nil*	*Nil*
Commercial (boat rentals, marinas, marine service-stations, etc.)	52.315	29
Miscellaneous (private wharves, boat-houses, etc.)	424.62	24
Totals	75,754.615	867
Assignments approved—		
Leases, land use permits, licences of occupation, certificates of purchase		695

Analysis of Inspections Completed and Inspections Outstanding at Year-end for the Years 1971 to 1975, Inclusive

Land Management Regions and Land Inspection Districts	Examinations Completed During Year					Examinations Outstanding at Year-end				
	1971	1972	1973	1974	1975	1971	1972	1973	1974	1975
Vancouver Island Region										
Courtenay	551	469	385	432	416	115	103	91	69	90
Victoria	230	215	146	272	199	32	29	50	67	82
Subtotals	781	684	531	704	615	147	132	141	136	172
Lower Mainland Region										
New Westminster	240	289	267	188	192	33	6	45	72	64
Vancouver	223	216	161	176	165	63	29	13	25	67
Vancouver North	324	334	183	185	192	87	59	40	79	124
Subtotals	787	839	611	549	549	183	94	98	176	255
Thompson-Okanagan Region										
Kamloops	702	486	402	546	501	64	30	39	45	93
Kelowna	249	209	193	225	195	37	42	47	21	62
Clinton	412	378	390	605	259	86	69	166	50	25
Subtotals	1,363	1,073	985	1,376	955	187	141	252	116	180
Kootenay Region										
Nelson	372	425	417	347	320	48	59	37	53	132
Cariboo Region										
Quesnel	191	243	195	157	235	46	18	15	60	43
Williams Lake	763	603	597	514	570	59	62	111	227	297
100 Mile House[1]	.....	.....	.....	.....	50	.....	.....	.....	.....	113
Subtotals	954	846	792	671	855	105	80	126	287	453
Omineca-Peace Region										
Fort St. John	439	459	533	690	771	72	209	85	35	135
Dawson Creek	282	150	198	386	376	7	84	92	46	68
Prince George	362	435	294	385	406	64	33	65	108	94
Vanderhoof	155	169	101	219	255	12	5	57	67	46
Subtotals	1,238	1,213	1,126	1,680	1,808	155	331	299	256	343
Skeena Region										
Prince Rupert	200	153	164	158	102	34	34	23	76	116
Smithers	182	199	222	302	269	54	.....	69	50	106
Burns Lake	227	115	174	192	170	13	40	78	76	65
Subtotals	609	467	560	652	541	101	74	170	202	287
Grand totals	6,104	5,547	5,022	5,979	5,643	926	911	1,123	1,226	1,822

[1] Office opened September 1, 1975.

Analysis of Requests for Inspection Processed by Land Management Branch for Years 1971 to 1975, Inclusive

Land Management Regions and Land Management Districts	New Requests Received During—				
	1971	1972	1973	1974	1975
Vancouver Island Region					
Courtenay	581	457	373	410	436
Victoria	212	212	167	289	215
Subtotals	793	669	540	699	651
Lower Mainland Region					
New Westminster	182	261	305	214	194
Vancouver	249	182	145	188	209
Vancouver North	271	306	164	224	245
Subtotals	702	749	614	626	648
Thompson-Okanagan Region					
Kamloops	664	452	411	552	549
Kelowna	224	214	198	199	236
Clinton	351	361	487	489	234
Subtotals	1,239	1,027	1,096	1,240	1,019
Kootenay Region					
Nelson	385	436	395	363	399
Cariboo Region					
Quesnel	205	209	187	200	219
Williams Lake	619	603	645	628	642
100 Mile House[1]	.....	.....	.....	.....	114
Subtotals	824	812	832	828	975
Omineca-Peace Region					
Fort St. John	397	583	398	633	868
Dawson Creek	188	200	163	301	373
Prince George	299	386	316	422	386
Vanderhoof	135	152	148	221	234
Subtotals	1,019	1,321	1,025	1,577	1,861
Skeena Region					
Prince Rupert	185	153	153	211	102
Smithers	148	145	291	283	269
Burns Lake	172	142	211	190	170
Subtotals	505	440	655	684	541
Grand totals	5,467	5,454	5,157	6,017	6,094

[1] Office opened September 1, 1975.

DIRECTOR OF DEVELOPMENT

The development group was established in early 1975 to undertake special development projects for the Lands Branch. The activities of the group were to include the early stage of the Crown lot program, preliminary development strategies for the Victoria Inner Harbour and Songhees lands, development advice to smaller communities, and concept plans and development strategies for the Whistler area. Other projects included preliminary planning of a UN demonstration project, setting up the return of the *Princess Marguerite* to the Victoria–Seattle steamship service and initial route and refurbishing of the SS *Prince George* for a return to the B.C. Coastal-Alaska run.

While some of these undertakings are still in a preliminary stage, several were very active during the year. The *Princess Marguerite* was refurbished and returned to service. Preparation of a conceptual plan for development of a townsite at Whistler was initiated. Adoption of the plan could provide the catalyst for development of a viable winter resort community at this location.

Co-ordinator of Ski Development

This office is part of the land development unit. The development of ski facilities and related land-use policies are presently under review and the new policies should be documented by mid-1976.

The development of ski facilities necessitates good interdepartmental communication. Proposals require thorough resource assessment and sometimes integrated management planning. This office is providing the service of assessing and assisting in the development of the present areas, as well as potential new areas.

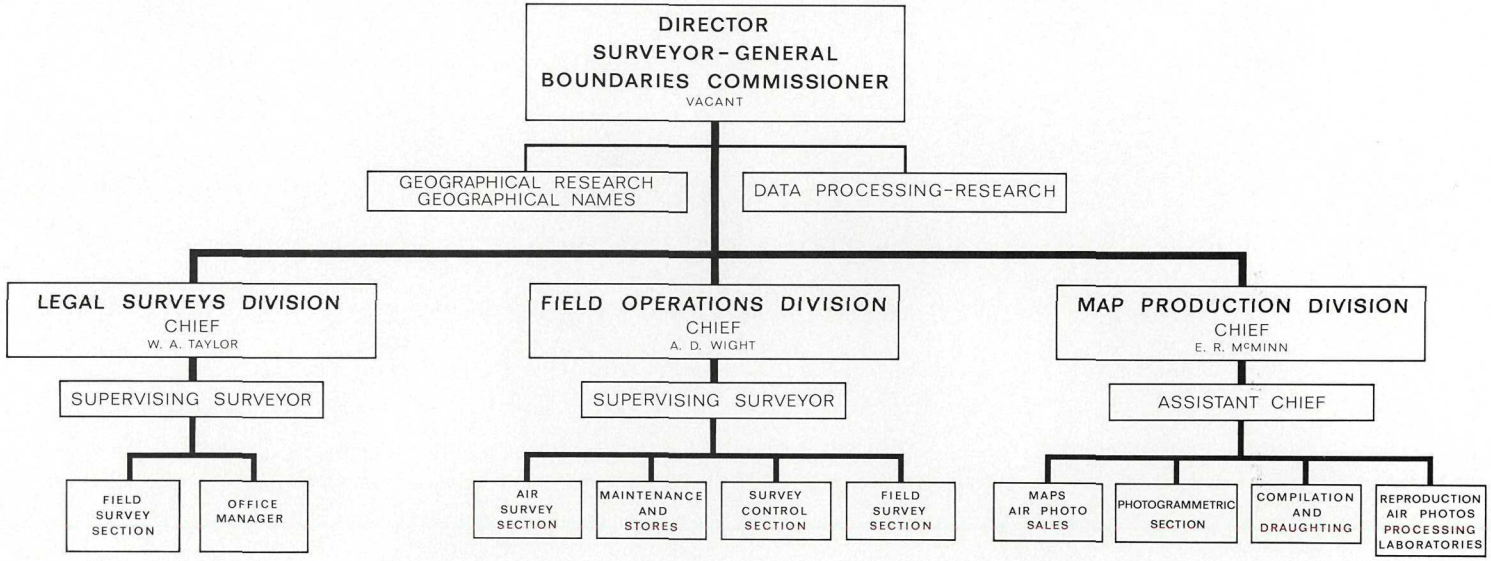
The first area of concern has been Whistler Mountain where a townsite has been proposed on Crown lands. Additional ski potential on neighbouring Blackcomb Mountain has been assessed for a proposed call for development. The Whistler development has problems in the area of land use and sewage disposal. This office has been working with other departments to seek the answers and programs to expedite development through a community plan.

Plans for new ski villages and new ski lifts have been reviewed in 16 British Columbia ski areas. Several proposals for new ski areas are also under study. This office has worked closely with the Forest Service, Parks Branch, Department of Municipal Affairs, Department of Transport and Communications, Pollution Control Branch, and the Department of Highways.

surveys and mapping branch

SURVEYS AND MAPPING BRANCH

YEAR ENDING DECEMBER 31, 1975



SURVEYS AND MAPPING BRANCH

STANDARD SYSTEM OF MAPPING FOR BRITISH COLUMBIA

During the year, consideration was given to amending the Standard System of Mapping instituted by Order in Council 2884 in 1974. The principal purposes of the amendments are to give the Director, Surveys and Mapping Branch, the authority to exercise general control over all mapping supported by public funds and to make compulsory the use of standard scales, sheet lines, and map numbering for all planimetric, topographic, and thematic mapping. Both the existing system and proposed amendments are in line with metric conversion. The advantages to be gained for a standard system of mapping may be summarized as follows:

(*a*) Restriction to the use of a limited number of "round figure" ratio scales will breed familiarity with map users, make the "arithmetic" and the physical processes involved in both map use and map compilation as simple as possible, and will reduce to a minimum the number of measuring scales required.

(*b*) Standard scales, sheet layouts, and numbering will mean that different classes of information (themes) displayed on different maps of the same area can be correlated by the simple process of overlay; and further, that the numbers of maps of a given area will be identical, irrespective of theme or production agency.

(*c*) The Universal Transverse Mercator rectangular grid required to be shown on all standard mapping will provide a precise and simple method of referring to geographical location and in the future will be the basis for the organization and correlation of computerized data bases.

(*d*) Standard scales and sheet layouts are designed to permit all map sheets to be printed on, or trimmed to, a single paper size (metric A1) and thus greatly assist in the problems of map storage and permit map series to be assembled in atlas-type binders.

At year-end a "final" draft of the amended Order had been prepared. However, a limited distribution of this draft produced a good deal of comment, mainly concerning mapping at very large scales, and some further amendment will be necessary.

DATA PROCESSING

In the Surveys and Mapping Branch continued wide use has been made of the general purpose Surveying and Mapping program LSM139, to which a number of routines have been added or modified. The modifications are mainly concerned with the use of the program, in the process of map compilations, by the Map Production Division and the Water Resources Service.

In the Land Management Branch during the summer months a team of eight extracted from files, leases, and other documents all the information necessary to form a computerized information system for Crown leases. This information was written on specially prepared forms which were subsequently key-punched. The information now resides on magnetic tape awaiting the completion of design of the computerized data base and the necessary programming.

Price Waterhouse Associates (management consultants) were engaged to design the computerized Information, Accounting, and Billing system and to do the programming. A good deal of delay resulted from uncertainties regarding the type of hardware, and associated software, that will be available. At year-end it was decided

that design should be for a stand-alone mini-computer system, but designed to permit subsequent connection with the computer and Consulting Services' Honeywell 6600 computer, either to permit the use of its large storage, processing, and high-speed printing capabilities or simply to use it as a switching terminal for the dispatch of data, screen displays, and reports between offices in different parts of the Province.

When in operation, hopefully by mid-1976, the system will enable inquiries to be made regarding any lease, licence of occupation, or easement at one of several cathode-ray tube (CRT) terminals in the Land Management Branch or Accounting Division. The inquiry will be followed by more or less instantaneous display of the required information. The terminals will also be used to enter accounting and other information. Printed reports, balance sheets, and billings will also be available either for a single lease or for a number of leases in a specified area or with specified characteristics.

Perhaps the greatest benefit expected to be derived from the computerized system will be a marked decrease in the handling and circulation of files.

GEOGRAPHICAL NAMES

Work continued on processing names for entry in the *Gazetteer* of geographical names for British Columbia and 141 decision lists were approved by the Provincial representative on the Canadian Permanent Committee on Geographical Names. During the latter part of the year a questionnaire was circulated to 60 historical societies, universities, colleges, and others known or believed to be active in geographical names research. The results of the returns will be summarized as part of a continuing effort to familiarize the toponymy section with research being done outside the Government and to establish contacts with possible sources of names for a names bank. Establishment of a names bank would provide toponymists and cartographers with an immediate and convenient source of names which could be drawn on for application to previously unnamed features.

There were three notable retirements in the Surveys and Mapping Branch during 1975.

The Surveyor-General and Director of Surveys and Mapping, A. H. (Bert) Ralfs, retired in August following a career spanning 46 years of service to the Province. Starting in 1930 as a junior draughtsman, Bert Ralfs earned his B.C.L.S. commission in 1947 and D.L.S. in 1951. After serving in various positions in the Topographic, Legal Surveys, and Geographic Divisions, he was promoted to Assistant Director in 1956. In 1968, following the retirement of G. S. Andrews, he became Director and Surveyor-General. Mr. Ralfs also held the position of Boundaries Commissioner.

Tom Hinton was another long-term employee who retired in 1975. Mr. Hinton's service began in 1936 in the Geographic Division. Latterly, as Supervisor of Map Distribution, he was responsible for maintaining and distributing the Branch's collection of maps and air photos.

Evelyn Rhodes also served in Geographic Division throughout most of her 36-year career in the Public Service. As toponymic clerk, she was primarily responsible for maintaining records pertaining to the 40,000 geographical names in British Columbia and compiling a record of geographical statistics.

LEGAL SURVEYS DIVISION

The trends in activities of the Division and the proportionate amount of effort devoted to servicing our own Lands Service activities as opposed to demands of other departments are apparent from the Production Table and Function Table accom-

panying. Approximately 27 per cent of the office effort is expended on direct functions for other departments requiring survey services. There is a slight decrease apparent on the surveys of Crown land and in new applications being cleared, whereas existing contracts and instream applications culminated in an increase in final purchase and lease documents to be prepared. There was also a notable decrease in surveys processed for mineral and wellsite activities.

An improved work flow and minor reorganization was aided by the reclassification of 11 technical positions in the office, allowing more specialization of duties and better supervision.

It was quite apparent from several important requests to supply historical and constitutional survey data that the present indexes of survey material based on geographic location and alphabetic titles are inadequate for a thorough quick determination of what is on file. Several different indexes have been commenced and abandoned in the years since the 1850's. Whereas all surveyed parcels are well indexed, there are innumerable miscellaneous surveys for reports, explorations, and statutory boundaries, etc., which are not. An attempt must be made to compile a comprehensive index of this material.

In the interests of general improvement in the knowledge of Government employees working in the business of land disposition and for students of survey history, two papers were written in this Division and printed in the Map Production Division. The subjects were

(1) *Survey Systems within the Crown Domain, Colonies to Confederation.*
(2) *Esquimalt and Nanaimo Rly. Land Grant, the Railway Belt and Peace River Block.*

NONRECURRING SPECIAL PROJECTS OF INTEREST

In connection with the Commission on Redistribution of Electoral Boundaries, metes and bounds descriptions of 62 electoral districts, which totalled 111 typed pages, were produced in a 10-day period.

Resource Management boundary descriptions of the seven new areas were written for the Environment and Land Use Committee to be used by all resource departments and subsequently Land Management areas were defined on maps for the Lands Service.

New assessment areas adopted by the Assessment Authority necessitated revision of former boundaries and annotation on the complete Reference Map series.

The 103 new reference maps produced and taken into use all conform to the new metric size and scale of maps.

Increased activity in the Indian land question and cut-off land disposition generated considerable map making, and description.

Special maps were produced in support of the Government position on the determination of ownership of the Strait of Georgia and adjacent waters and in regard to the Esquimalt and Nanaimo Railway hearing on maintenance of service.

A stock of official survey posts is maintained in all offices of Government Agents, for use in Crown land surveys and replacement of original survey corners. A résumé of activity in this service appears in the tables accompanying this report.

FIELD WORK

The field staff of the Legal Surveys Division, at present consisting of five professional land surveyors and 11 field assistants, undertook 38 assignments in 1975, together with several repostings, revisions, and continuance of work commenced in 1974.

A Crown Lot and Site program initiated by the Lands Branch involved the use of our field staff in the preliminary determination of feasibility of several proposed subdivision sites, and the preparation of subdivision designs for the consideration of the Special Services Division. Hopefully, our role in this regard will increase in the future.

Again this year it was not possible to assign a Government survey crew to a specific project of corner restoration. The important task of restoring the survey structure in many needful areas of the Province, commenced in a modest way last year through private contract, had to be suspended in 1975 due to the withdrawal of budgeted funds. The already monumental problem of obliterated corners worsens with the passage of time, and can only be overcome with an escalated restoration program.

A summary of 1975 assignments follows:

Lands Branch Surveys

A five-lot residential subdivision was completed at Westbridge, and at Wardner a 35-acre parcel was surveyed to accommodate an owner affected by the Libby pondage flooding. A survey was required of the present banks of the Brunette River near its mouth to determine filled areas, and at the mouth of French Creek an investigation was requested to determine if an area of gravel removal was in trespass. At Nanaimo, a parcel was surveyed to enable a land exchange, with the Crown receiving a desirable beach and headland near Departure Bay, and at Campbell River a subdivision was made in order that private land fronting the river could be purchased. The boundary of titled ownership fronting Mill Bay was defined to assist the Lands Branch in assessing the extent of a foreshore trespass. An 80-acre ecological reserve was surveyed at Whipsaw Creek off the Hope–Princeton Highway, and boundaries of the Tow Hill and Rose Spit Ecological Reserves were posted with appropriate signs at access entry points. Minor subdivision amendments and a reposting of all missing corners was necessary on a previously completed 105-lot Crown subdivision at Kitimat to enable an auction to be held in the fall.

In the northern part of the Province, a nine-lot subdivision of 4- to 10-acre lots was created at Pink Mountain, and near Fort Nelson a 33-lot subdivision was completed late in the year. In the vicinity of Fort St. John, four sections were surveyed by agreement with the present lease-holders to delineate the arable benchland portions from the steep eroded areas. Near Kiniskan Lake, a 104-acre lot was posted for disposition as an addition to a lease of present adjoining holdings, and considerable work was completed at Dease Lake, including a 13-lot industrial sites subdivision, the survey of a cemetery site, a 10-acre school lot and community hall site, wellsite and water-line rights-of-way, and the subdivision of two existing lots into eight small parcels for possible commercial lease purposes.

The sites of previously referred to proposed Crown subdivisions for which preliminary surveys were made and subdivision designs submitted included 17 acres at Powell River, two areas in the vicinity of Egmont, land at Pemberton, and an area west of Quesnel, all with residential-type lots in mind. Recreational-type lot subdivisions were similarly planned fronting Little Lillooet Lake and on Burrell Creek north of Grand Forks.

Miscellaneous surveys were conducted at Blue River where a resurvey of a part of Lot 3281 was needed, at Cranbrook where a survey tie was required to locate correctly an existing lot, and at Roberts Bank to monument a B.C. Harbours Board foreshore lot.

LEGAL SURVEYS DIVISION ESTABLISHMENT

CHIEF
W. A. Taylor

SUPERVISING SURVEYOR
R. W. Thorpe

SENIOR TECHNICIAN
N. A. Patton

Clerk 3
Vault Filing and Security

Clerk 3
Mail and Indexing

Clerk Steno 3
Clerk Typist

FIELD PARTIES
6 – B.C. Land Surveyors

ASSISTANTS
2 – Technician 3
6 – Technician 1
3 – Engineering Assistants

Checking surveys of Right-of-way, Highways and Crown Land Sub-divisions for registration under Land Registry Act. Posting plans and monument renewal records, explanatory plans. Integrated Survey record, Survey Post sales. Plan checking for Land Registry Offices.

TECHNICIAN 2
N. Gustafson

1 – Technician 1
3 – Tech. Asst. 4

Checking Land Act Surveys, Owner-charge reports on Land Applications, Legal descriptions, draughting assignments, deleting water areas and amending Official Plans.

TECHNICIAN 2
S. Vanderjagt

TECHNICIAN 1 (2 i/c)
B. Peddlesden

3 – Tech. Asst. 4
4 – Tech. Asst. 3
1 – Tech. Asst. 2
1 – Tech. Asst. 1

Survey instruction preparation, Road Access planning, Indian Reserve records, Crown Grant and Lease tracings, Inspection Plans and Survey Systems layout, Mineral Act and P. and N.G. Act surveys, status and cancellation of Timber Licence surveys.

TECHNICIAN 2
C. A. Bennett

TECHNICIAN 1 (2 i/c)
E. Harris

3 – Tech. Asst. 4
3 – Tech. Asst. 3
2 – Tech. Asst. 1

Compilation and draughting of Reference Maps, special draughting assignments as required.

TECHNICIAN 1
L. Willis

1 – Tech. Asst. 3
2 – Tech. Asst. 2

January 1976

Interdepartmental Surveys

Although the Lands Branch receives priority for the services of our survey section, several other departments were able to be accommodated to a limited extent. For the Department of Public Works, a small subdivision at Nanaimo created two lots for lease from the Hospital District, and in Burnaby a lot was surveyed fronting Willingdon Avenue to provide for an extended-care hospital. In Victoria, confirmation of the location of a "party wall" between Crown and private interests was required, and a site and legal survey of property behind the Douglas Building was made for architectural planning purposes. The Parks Branch required a survey to receive 6.5 acres of private land for park use, and for the Attorney-General's Department a boundary survey was conducted in Esquimalt District for court purposes to determine if the location of trailers in a mobile home park contravened zoning restrictions. Two surveys were made for the Secretariat—an investigation in the Comox area concerning improvements relative to boundary lines of property acquired and a subdivision on Saltspring Island to permit conveyance of a 55-acre portion of private land for public use. At Port McNeill, the corners of a 56-lot subdivision carried out in 1974 for the Department of Housing needed reposting following road and servicing construction, and for the Department of Human Resources, a 7-acre block was surveyed out of "cut off" lands of the Capilano Indian Reserve for transfer to the Squamish Indian Band. Relatively few of the numerous surveys required by the Forest Service could be undertaken by this office. Those that were undertaken included a right-of-way survey of 4½ miles of the Kettle River East forest access road in the Christian Valley, two surveys of forest road through single private lots in the Grand Forks and Christina Lake area, a subdivision for consolidation of parcels for use of the ranger station at Grand Forks, and a posting survey of several lots reserved for public recreation fronting Mabel Lake. The large undertaking commenced last year for the Water Rights Branch to enable the purchase of private land along Boundary Bay for dyke improvement and public purposes is continuing, and involved the drafting of numerous subdivision plans for registration early in the year. Considerable work remains to be completed when dyke design details are resolved.

In the course of the year's work, 46 district lot corners were renewed with permanent monuments.

FIELD OPERATIONS DIVISION

FIELD SURVEY SECTION

The Field Survey Section operated six parties for the main field season. One party was engaged in the propagation of primary Provincial control in the northern part of the Province, two parties worked on the integrated control program, two parties were used for miscellaneous large-scale mapping projects, and one party continued the boundary maintenance program on the 60th parallel.

The primary control party extended the Provincial control grid in the uncontrolled areas of Map-sheets 94N, O and K, and in Map-sheets 104F and K. The initial base of operations for the season was at Fort Nelson, and it then moved to Liard River Crossing. From the two bases, Map-sheets 94 N/1, 2, and 7 to 16, 94 O/4, and 94 K/15 and 16 were controlled. A final base camp was established at Chutine Lake, from which Map-sheet 104F and the southerly portion of 104K were controlled. The crews were transported to the mountain stations by helicopter, and the Government's Otter aircraft provided back-up transportation and base camp supply. A total of 78 stations was occupied during the field season, which is below the normal accomplishment for this type of operation. The low production is attrib-

uted to a combination of poor weather throughout the summer and the extremely rough terrain of the north coastal mountains in Map-sheets 104F and K. The survey of this rugged ice and snow-covered terrain had been deferred for several years, awaiting minimal snow conditions for ease of access and availability of open rock necessary for establishing and photo-identifying survey control points. The completion of the survey of this area was itself a major accomplishment. Supplementary survey ties were completed in two locations, within reach of the operating bases, to strengthen the existing network in preparation for the adjustment of the Provincial network to the new Geodetic framework established in northern British Columbia during the past two years.

In the Integrated Survey program, a part of the District of Coquitlam was declared as Integrated Survey Area 14. In addition, a revised plan of Integrated Survey Area 8 (District of Mackenzie) with U.T.M. grid and co-ordinates was deposited in the Land Registry Office.

Helicopters have been used to transport survey crews for over 25 years.

Landing, 5,000-foot elevation, 1949.

Landing, 8,800-foot elevation, 1975.

During the field season, one survey crew worked in the City of Kelowna expanding the control in that area toward an eventual integration of the whole city. The party established horizontal and vertical positions for 234 control monuments, and established nine permanent and 18 temporary bench marks in the area. The second crew made a start on the integrated control network in the District of North Vancouver and completed the easterly portion of the district. Horizontal and vertical positions were established for 291 control monuments in the area. In addition to the two main programs, the survey crews established horizontal and vertical positions for 33 additional monuments in the District of Matsqui and eight additional monuments in the District of Coquitlam. A reconnaissance was also carried out in the District of Squamish to design a control network for a proposed integrated survey system covering the area.

Field compilation of large-scale engineering plans or control for photogrammetric compilation, or a combination of both systems, were employed to complete the following projects: Winter Harbour, Lot 20 (Ucluelet), two areas in the vicinity of Logan Lake, three areas adjacent to Quesnel, Chatsworth Road property by Cameron Lake, Pink Mountain (Mile 143, Alaska Highway), Fraser River gravel bars, and Fitzsimmon Creek at Whistler Mountain. These projects were requested by the Land Management Branch of the Lands Service.

In addition, five site plans were completed for the Public Works Department, two hospital site plans for the Hospital Services Branch, one mapping control project at Wells for the Water Resources Service, and mapping control at Gwillim Lake for the Department of Recreation and Conservation. Also, small control surveys were carried out at Vernon and Terrace at the request of the regional districts.

The British Columbia-Yukon-Northwest Territories Boundary Maintenance Program on the 60th parallel continued eastward from last year's termination point at Tropical Creek. The crew cleared 54 miles of boundary line through the headwaters of the Crow River and the Beaver River valley. Forty-two boundary monuments were inspected and the reference markers were restored between Monuments 552 and 593. After three years of activity, the joint Federal-Provincial Boundary Program has restored the boundary from Teslin Lake east to within 20 miles of the Liard River north of Nelson Forks.

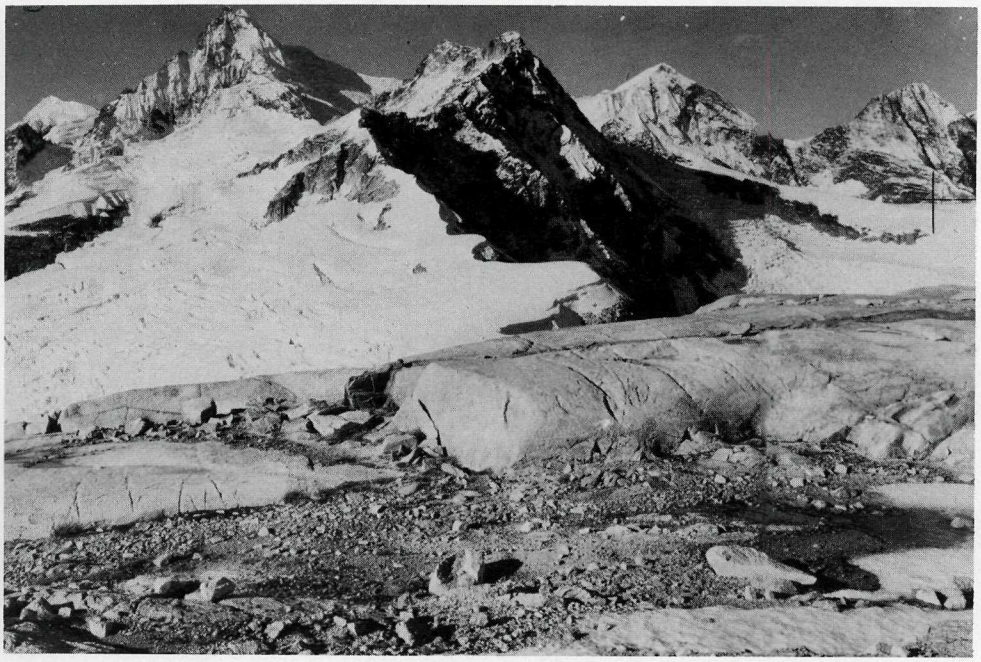
A calibration base for electronic measuring devices was installed at Royal Oak beside the Patricia Bay Highway. The base consists of six reinforced-concrete columns surmounted by forced centring plates. The angles and levels between the columns were observed by the Division, and the distances between the columns were measured by personnel from the Geodetic Survey of Canada, using a Mekometer. The Royal Oak base will be used for the calibration of electronic distance measuring devices and will be the Provincial Standard for linear measure.

In preparation for metrication, two 75 m tape calibration bases were established —one in the City of Kelowna and the second in Penticton.

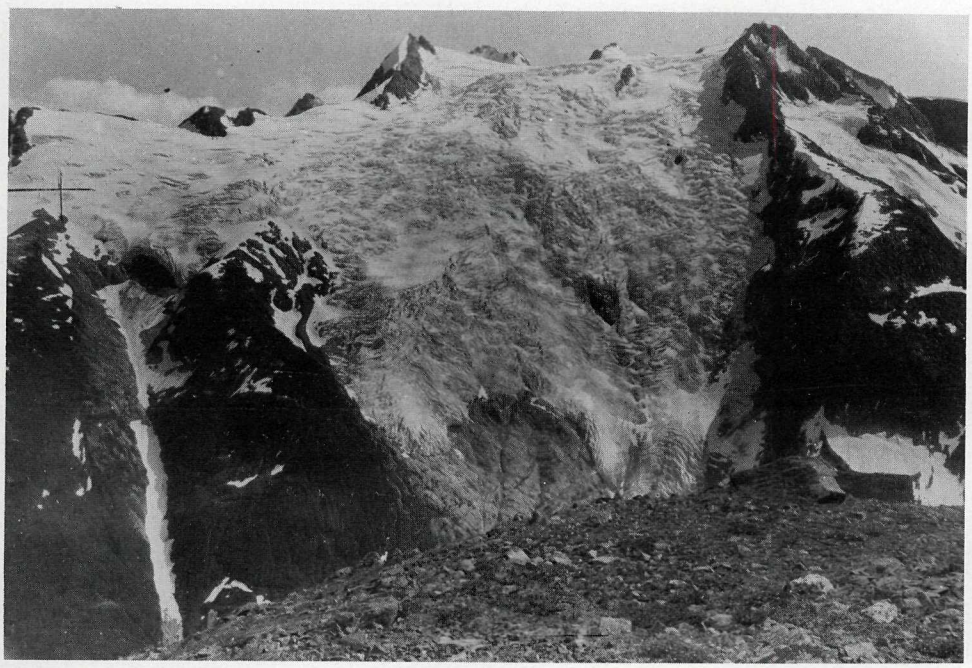
AIR SURVEY SECTION

The photographic program for the season produced 53,609 new photographs covering 74,500 square miles with block vertical photography in 21 areas of the Province, and completed 240 special projects requested by 18 branches and agencies of the Government. Aircraft hours totalling 701 hours were flown, with 50 per cent used on block vertical cover and the balance on special projects.

Block vertical cover comprised 14,770 square miles at a photographic scale of 1:31,680, 4,270 square miles at a scale of 1:15,840, and 55,430 square miles at 1:20,000. The special projects produced 12,950 line-miles of photography on

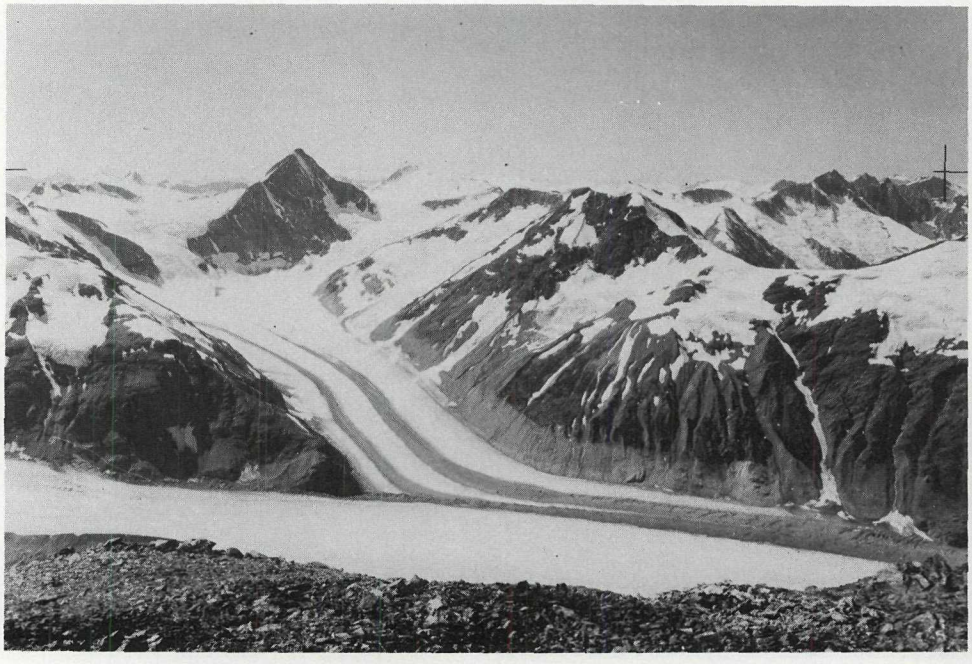


Kates Needle, Boundary Peak 70, B.C.-Alaska Boundary, from Station "Rist."



Ice fall, Patmore Creek, Coast Range.

Chutine Lake from Station "Tytea."



Coastal glacier north of Chutine Lake from Station "Meme."

23,909 photographs. Of this total, 3,889 photographs were in colour and 632 in infrared false colour. Of the special projects completed, 40 per cent were photographed in colour and (or) infrared false colour.

The two new Beechcraft Model 200 aircraft completed the first full season on photographic operations. Photographic specifications were modified to maximize productivity and utilize the capability of the aircraft. A change in photographic scale for the primary vertical cover from 1:15,840 to 1:20,000 increased the net gain from 1.18 square miles per photograph to 2.25 square miles. At the smaller scale, 24,110 photographs covered 55,430 square miles, which produced an increase of 40 per cent in the area covered, with a decrease of 30 per cent in the number of photographs related to the comparable portion of the 1974 accomplishment.

SURVEY CONTROL SECTION

The Survey Control Section completed the calculations and final adjustments on all new control surveys and readjusted existing networks affected by the new surveys or by changes in the Federal Primary system. The Survey Data Bank was completed and now contains all significant survey control established in the Province to date. The data bank now contains 36,817 points, as 3,707 points were added to the bank during the year.

MAP PRODUCTION DIVISION

During the year, 143 mapping projects were requested of the Division, ranging from a single orthophoto map for Forest Research to the plotting of 45,000 spot heights on the Mud Bay project for the Fish and Wildlife Branch or the planimetric compilation of 226 map-sheets of Tree-farm Licence 1 for Forest Inventory. Some projects are completed by one section, others move progressively from Compilation to Cadastral Plotting to Draughting.

Staff was reduced from 115 to 111 by the process of not filling vacancies; these vacancies were utilized elsewhere in the Lands Branch where priorities are higher. A massive reclassification of mapping assistant and draughtsman grades was finalized, resulting in job descriptions and salaries equivalent with our Federal counterparts and similar to those in industry. One grievance is being processed and two more are pending; the most interesting involving the rights of existing workers with respect to rotation when shift work is introduced.

This year it became apparent that the planimetric program for Forest Inventory, a major undertaking for 27 years, will change to a revision task and this will be combined with a conversion to the new standard scales more useful in the metric world.

The graphical system of template laydowns will be eliminated by using a computer adjusted analytic process, but only when an automatic plotting table is available to plot the output co-ordinates of grids and points. Likewise, a serious conversion program involving scale changes and reassembling to the new U.T.M. sheet indexing system will require a second 105-mm camera and staff to use it on shifts.

This year also saw the completion of the major field survey control for 1:50,000 mapping, the compilation of which the Federal Government expects to complete by 1979. The Annual Report of 1950 estimated this program would take 60 years to complete.

A nonevent of the year concerns composite mapping, the organization of which again failed to materialize. Because of reduced work loads in the Planimetric Section, some eight staff were assigned late this year to undertake a conversion and

updating of composite mapping in the Fraser Valley and on Vancouver Island. It is hoped that a new look at Government responsibilities in providing funds or services for surveys and mapping for regional districts and Crown corporations will take place in 1976.

During the year the Photogrammetric Section brought into use a sophisticated system of producing plotted co-ordinates from a sequence which starts with a Kern PG2 instrument and ends at the Cal-Comp plotter. The Zeiss orthophoto was purchased jointly with other departments and 34 projects have been completed. The mini-computer can handle input from other plotters as soon as they can be digitized and additional data storage is acquired; in particular the orthophoto terrain model could be automatically contoured when an automatic table is available for plotting.

The Planimetric Section handled 29,000 airphotos in the production of 447 new 20-chain map-sheets and 592 revised sheets. Mosaics totalling 57 sheets were made in response to 18 requests. The Draughting subsection prepared 835 manuscript sheets and completed fairdrawing of 391 sheets. The great task before this Section in the future will be the conversion of those existing 20-chain and 40-chain map-sheets to the new 1:20,000 scale, which will be accomplished as areas are revised. Some 74 sheets of composite mapping were produced, half of them as overlays for topographic mapping projects. District lot assemblies for Federal 1:50,000 mapping totalled 51 sheets.

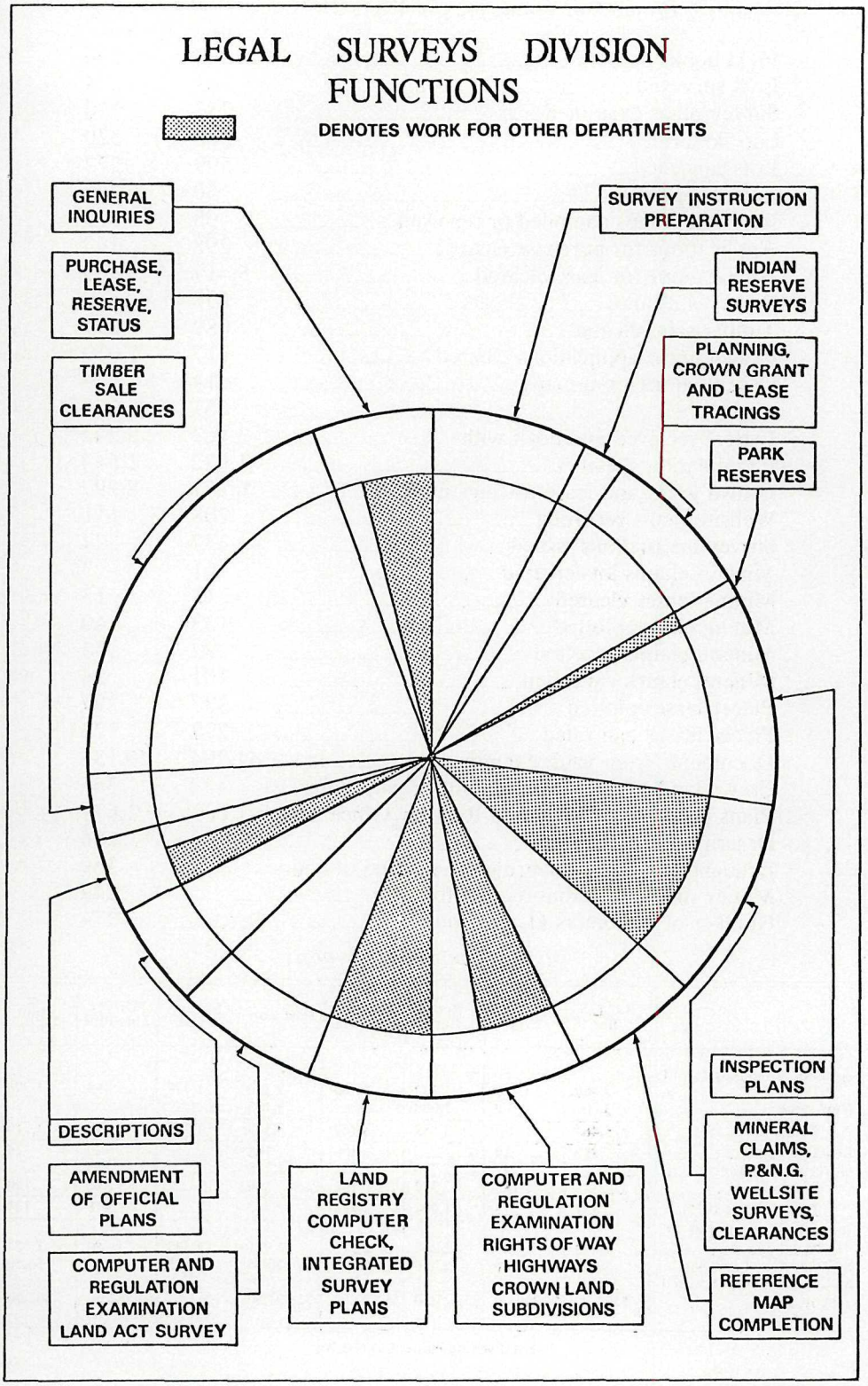
The Draughting Section completed 298 sheets of large-scale mapping, nine lands folio projects completed or in hand, and compilations for 17 new lithographed maps. Eighteen maps were published, 16 maps were reprinted, eight general map series, 1S, were reprinted, administrative boundaries were plotted on 90 Federal Government 1/50,000 maps, and miscellaneous draughting was done on sketches, indexes, charts, maps, and mosaics.

A major undertaking was the draughting for the Recreation and Conservation B.C. Atlas, of which 30,000 are now published. A new catalogue of indexes for maps and airphotos has also been completed.

The Map and Air Photo Sales office, with the Air Photo Processing Section and the Reprographics Section, handled 41,000 requisitions covering 417,000 airphoto prints, 194,000 lithographic maps, 320,000 whiteprints, 97,000 items of photocopy, and 2.5 million offset prints. Since April 1, all requisitions were priced and totalled $813,491. The second Versamat enabled airphoto production to be maintained during the flying season when 194 rolls of air film were also processed. Considerable departmental work is refused in the Reprographics Section; only 5,000 105-mm negatives were added to the control file because the operators are busy recovering copy from the 90,000 negatives now stored. If the Section moves to a new location, the present shift of three persons should be increased to make most economic use of all equipment. Storage of maps and particularly of irreplaceable air film is a continuing problem; film is being stacked in corridors, over one million maps are stored below ground in the old Topaz vaults, and the 80,000 colour posters have been moved from the Princess Marguerite dock to the Field Survey warehouse.

Our airphoto rental service was discontinued this year, excepting for departments in Victoria, who borrowed 37,000 prints. Regional Airphoto Libraries are being considered and this idea will require acquisition of microfilm and reader/printer equipment for instant viewing and printing of photos and maps.

STATISTICS


LEGAL SURVEYS DIVISION
FUNCTIONS
DENOTES WORK FOR OTHER DEPARTMENTS
GENERAL INQUIRIES
PURCHASE, LEASE, RESERVE, STATUS
TIMBER SALE CLEARANCES
SURVEY INSTRUCTION PREPARATION
INDIAN RESERVE SURVEYS
PLANNING, CROWN GRANT AND LEASE TRACINGS
PARK RESERVES
INSPECTION PLANS
MINERAL CLAIMS, P.&N.G. WELLSITE SURVEYS, CLEARANCES
REFERENCE MAP COMPLETION
DESCRIPTIONS
AMENDMENT OF OFFICIAL PLANS
COMPUTER AND REGULATION EXAMINATION LAND ACT SURVEY
LAND REGISTRY COMPUTER CHECK, INTEGRATED SURVEY PLANS
COMPUTER AND REGULATION EXAMINATION RIGHTS OF WAY HIGHWAYS CROWN LAND SUBDIVISIONS

LEGAL SURVEYS DIVISION

Production Totals for the Years 1974 and 1975

	1974	1975
Field books prepared	277	226
Lots surveyed	389	274
Survey plans examined	253	250
Lots confirmed	330	320
Lots cancelled	1,599	272
Lots amended	50	65
Reference maps compiled or renewed	68	103
Applications for purchase cleared	298	147
Applications for lease cleared	5,417	3,863
Reserves cleared	698	420
Timber sales cleared	1,089	1,297
Crown grant applications cleared	917	1,030
Cancellations from maps	614	744
Inquiries	667	375
Letters received and dealt with	3,463	3,342
Examination sketches	1,672	1,544
Crown grant and lease tracings made	6,257	8,297
Wellsite plans recorded	208	111
Survey instructions issued	337	324
Mineral claims lots created	61	3
Mining leases cleared	12	13
Mining claims plotted	133	40
Mineral claims gazetted	22	54
Mineral claims cancelled	101	34
Placer leases plotted	337	297
Placer leases cancelled	297	522
Documents from vault examined	41,704	40,131
Crown land subdivision and right-of-way plans	432	365
Plans checked for the Land Registry Office	1,603	1,671
Descriptions written	439	266
Draughting (Divisional projects), number of hours	----	369
Money-mail and verbal request forms	----	249
Number of customers (1,136 hours)	----	274

Distribution of Survey-posts

	B.C.L.S. Bar	Standard Pipe	Rock Post	Drive-able Pin	Post Cap	Anchor Plate	Drive-able Pipe	2½" Alum. Bolt
Amount on hand, Jan. 1, 1975	2,465	1,147	1,333	3,760	2,130	1,778	498	1,776
New stock	3,000	100	2,000	----	3,193	----	----	----
Totals	5,465	1,247	3,333	3,760	5,323	1,778	498	1,776
Legal surveys	852	10	----	100	108	----	20	24
Government Agents	----	122	774	1,291	1,728	----	180	----
Public surveyors	----	185	317	42	566	----	218	100
Total used in 1975	852	317	1,091	1,433	2,402	----	418	124
Balance of hand, Dec. 31, 1975	4,613	930	2,242	2,327	2,921	1,778	80	1,652
Selling price of one post	$0.60	$7.00	$2.50	$2.50	$0.75	$0.25	$9.00	$0.50
Selling value of posts used in 1975	$511.20	$2,219.00	$2,725.50	$3,582.50	$1,801.50	----	$3,762.00	$62.00

Total selling value, $14,663.70.

FIELD OPERATIONS DIVISION

Accomplishments of Air Survey Section

	Number of Photos	Lineal Miles	Square Miles
A. 1/63,360 vertical cover	.....	.....	.....
B. 1/31,680 vertical cover—			
Forest Surveys and Inventory Division PSYU's:			
Dease	930	.....	5,300
Taku	765	.....	4,360
Subtotals	1,695	.....	9,960
Lands Branch:			
Peace River south	640	.....	3,650
Quesnel area	300	.....	1,160
Subtotals	940	.....	4,810
Totals	2,635	.....	14,770
C. 1/20,000 vertical cover—			
Forest Inventory Division PSYU's:			
Arrowhead	620	.....	1,425
Blueberry	1,750	.....	4,025
Burns Lake	1,090	.....	2,505
Chilko	1,320	.....	3,035
Cranbrook-Upper Kootenay	2,970	.....	6,830
Edgewood	220	.....	505
Kamloops-Shuswap	250	.....	575
Kettle	50	.....	115
Monkman	115	.....	265
Nechako-Westlake	200	.....	460
North Thompson	925	.....	2,125
Ootsa	3,835	.....	8,800
Raft-Adams-Barriere-Nisconlith	1,530	.....	3,520
Skeena	3,380	.....	7,775
Smithers	1,880	.....	4,325
Stum	2,085	.....	4,795
Yalakom	1,890	.....	4,350
Subtotals	24,110	.....	55,430
B.C. Assessment Authority: E. and N. lands	2,945	.....	4,270
Totals	27,055	.....	59,700
D. Special projects—			
Agriculture Department: Chilliwack	10	6	.....
B.C. Hydro and Power Authority:			
Kootenay Canal	269	19	.....
Pend-d'Oreille dam-site	80	12	.....
Pend-d'Oreille River	224(C)	56	.....
Subtotals	583	87	.....
Capital Regional District: Langford-Metchosin	112(C)	125	.....
	81	.....	.....
Subtotals	193	125	.....
ELUC Secretariat: Langley	3	12	.....
Finance Department: Fort Nelson	78	197	.....
Forest Engineering Division:			
Fraser River debris	10	6	.....
Glacier-Forester-Bremner Creeks	52	22	.....
Hixon Creek	37	23	.....
Stone Creek	61	21	.....
Subtotals	160	72	.....
Highways Department:			
Barnett-Ioco	63	20	.....
Campbell River–Courtenay	76	137	.....
Cassiar Highway	172	93	.....
Columbia River	332	275	.....
Cranbrook	55	41	.....
Elk River	244	188	.....
Garibaldi Lake	23	34	.....
Garibaldi–Rubble Creek	235	50	.....
Goat River	32	24	.....
Golden–Kicking Horse	41	66	.....
Hells Gate	6	1	.....
Highway 15	95	32	.....
Hope Slide	24	8	.....

FIELD OPERATIONS DIVISION—*Continued*

Accomplishments of Air Survey Section—Continued

	Number of Photos	Lineal Miles	Square Miles
Highways Department—*Continued*			
Houston	60	13	.....
Kamloops	80	50	.....
Kelowna	62	56	.....
Lardeau River	45	36	.....
Lower Vancouver Island	177	127	.....
McKenzie Avenue	20	5	.....
Meagre Creek	30	8	.....
Merritt	33	24	.....
Phinetta–Sheridan Lakes	30	48	.....
Princeton–Keremeos	95	54	.....
Revelstoke–Glacier	137	248	.....
Salmo–Creston	41	71	.....
Southern Trans-Provincial Highway	29	32	.....
Teepee Creek	160	131	.....
Terrace	12	8	.....
Tête Jeune–Yellowhead	82	15	.....
Tillicum-Thetis Interchange	5	3	.....
Vernon	49	35	.....
Subtotals	2,545	1,933	.....
Lands Branch:			
Alberni–Ucluelet–Bamfield	285	67	.....
Alta Lake	8	6	.....
Atlin	14	22	.....
Back Valley (Pass Valley)	14	15	.....
Campbell River	113	34	.....
Cowichan Bay	22	4	.....
Deadman Creek	51	60	.....
Fraser gravel bars	75	17	.....
Gang Ranch	1,170	756	.....
Great Central Lake	98	57	.....
Gulf Islands	517	554	.....
Kuper Island	9(C)	2	.....
Kyuquot	21	5	.....
Lac Le Jeune	17	17	.....
Mud Bay	185	42	.....
Lower Nass Valley	37	38	.....
100 Mile House	2,750	1,410	.....
Port Alberni	144	21	.....
Prince Rupert	6	8	.....
Quatsino	149	85	.....
Sandspit-Masset	355	215	.....
Sheridan Creek	22	5	.....
Skagit Valley	20	13	.....
Spahats Creek	12	3	.....
Sproat Lake	154	31	.....
Squamish	70	43	.....
Tahsis–Zeballos–Muchalat	149	55	.....
Terrace	125	75	.....
Subtotals	6,592	3,660	.....
Land Commission:			
Gifford Ranch	12	7	.....
Langley	93	28	.....
Pearce Ranch	22	15	.....
Point Vee Bar Ranch	8	6	.....
Steeples Ranch	14	8	.....
Subtotals	149	64	.....
Mines Department:			
Bradina Joint Venture	21(C)	12	.....
Brenda Mine	65(C)	24	.....
Bull River Mine	25(C)	11	.....
Byron Creek	69(C)	43	.....
Craigmont Mine	32(C)	18	.....
Endako Mine	20(C)	13	.....
Gibraltar Mine	29(C)	18	.....
Hudsons Bay Mine (Cominco)	57(C)	37	.....
Phoenix Mine	55(C)	34	.....
Sage Creek	85(C)	57	.....
Subtotals	458	267	.....

FIELD OPERATIONS DIVISION—*Continued*

Accomplishments of Air Survey Section—Continued

	Number of Photos	Lineal Miles	Square Miles
Municipal Affairs Department:			
Highway 16	483	370	.....
Highway 99	60	20	.....
Subtotals	543	390	.....
Public Works Department:			
BCIT	12	3	.....
Colquitz	9	1	.....
Columbia Street (Kamloops)	4	1	.....
Cuthbert Holmes Park	4	3	.....
DND (Kamloops)	4	1	.....
Essondale	7	2	.....
Jericho School	3	1	.....
Nelson	7	1	.....
Pearson Hospital	3	1	.....
Powell River	143	46	.....
Prince George Highways yard	3	1	.....
University Endowment Lands	98	15	.....
Vancouver	15	5	.....
Victoria Industrial Reserve	8	2	.....
Woodlands School	16	2	.....
Subtotals	336	85	.....
Recreation and Conservation:			
Adam River	234	194	.....
Artlish	14(C)	2	.....
Brem River	9(C)	4	.....
Burman	8(C)	1	.....
Chilko River	12(C)	6	.....
Clayoquot	7(C)	2	.....
Cous	21(C)	4	.....
Cypre	16(C)	4	.....
Cypress Bowl	33	28	.....
Deserted Bay	15(C)	1	.....
Elk River Floodplain (Campbell River)	46(C)	18	.....
Gold River	22(C)	4	.....
Gwillim Lake	15	27	.....
Homathko River	15(C)	2	.....
Indian Arm	22(C)	5	.....
Inonoaklin River	10(C)	1	.....
Jordan River	10(C)	2	.....
Kaouk	9(C)	2	.....
Klanawa	5(C)	1	.....
Klinaklini	18(C)	11	.....
Macktush	9(C)	2	.....
Malksope	14(C)	11	.....
Manning Park	10	3	.....
Marble River	5(C)	2	.....
Meadow Creek	22(C)	17	.....
Narrows Inlet	25(C)	2	.....
Ououkinsh	8(C)	1	.....
Orford Bay	13(C)	3	.....
Phillips Arm	15(C)	6	.....
Quatam River	8(C)	2	.....
Salmon Inlet	17(C)	2	.....
San Juan	55(C)	11	.....
Sarita	8(C)	1	.....
Sooke	9(C)	1	.....
Southgate River	31(C)	4	.....
Stump Lake	14(C)	8	.....
Tahsish	14(C)	3	.....
Theodesia River	15(C)	2	.....
Toba River	17(C)	6	.....
Tranquil	10(C)	2	.....
Verdier Point	26(C)	5	.....
Washlawlis	8(C)	4	.....
Whitetail Lake	28	20	.....
Zeballos	24(C)	4	.....
Subtotals	946	441	.....

FIELD OPERATIONS DIVISION—*Continued*

Accomplishments of Air Survey Section—Continued

	Number of Photos	Lineal Miles	Square Miles
Reforestation Division:			
Chilliwack Lake	26	8	.....
Crawford Creek	80	64	.....
Duncan-Trout Lakes	216	88	.....
Kwoiek Creek	51	41	.....
Stave Lake	83	72	.....
White River	20	14	.....
Subtotals	476	287	.....
Water Resources:			
Alberni	40	12	.....
Brent-Marron Lakes	45	12	.....
Cawston	11	5	.....
Columbia River	53	28	.....
Columbia River orthophoto	15	17	.....
Coquitlam orthophoto	36	34	.....
Coquitlam River	46(C)	12	.....
Cowichan Lake	8	3	.....
Cowichan orthophoto	5	4	.....
Duncan	116	40	.....
Duncan-Cowichan	78	36	.....
Eagle River	12	4	.....
Eagle River orthophoto	40	38	.....
Elinor-Naramata Lakes	10	3	.....
Elk-Fording River	229	195	.....
Elk River-Elko	99	57	.....
Elk River orthophoto	90	81	.....
Fraser River low water	659	390	.....
Graystoke Lake	7	2	.....
James-Scotty Lakes	29	9	.....
Kalamalka-Wood Lakes	78(C)	54	.....
Kamloops orthophoto	59	50	.....
Kitimat River	257	112	.....
Langley Lake	166	28	.....
McCulloch Lake	117	36	.....
Nanaimo River and Haslam Creek	46	24	.....
Nechako River	160	149	.....
Nicola orthophoto	65	64	.....
Nicola River	362	131	.....
North Thompson	129	124	.....
Okanagan aquatic weeds	393	93	.....
Okanagan Floodplain	1,667	609	.....
Okanagan Lake	384(C)	101	.....
Okanagan orthophoto	455	392	.....
Peace River	780	485	.....
Pitt Meadows-Coquitlam	705	224	.....
Salmon River	95	43	.....
Shuswap-Mabel Lake	91	88	.....
Shuswap River	109	41	.....
Silver Lake	73	24	.....
Skeena orthophoto	53	56	.....
Skeena River	212	100	.....
Snohoosh Lake	36	8	.....
Vaseux-Osoyoos Lake	88(C)	50	.....
Vinsula	94	27	.....
Wells	5	10	.....
Willis Lake	24	8	.....
Subtotals	8,331	4,113	.....
Water Resources-Pollution Control:			
Afton Mine	82(C)	67	.....
	107(IR)	.....	.....
BCFP (Crofton)	13(C)	5	.....
BCFP (Victoria)	8(C)	2	.....
Blueberry River	37(C)	35	.....
Britannia Mines	12(C)	6	.....
Canadian Forest Products (Port Mellon)	9(C)	4	.....
Cancel (Castlegar)	19(C)	7	.....
Cancel (Prince Rupert)	10(C)	3	.....
Cariboo Pulp and Paper	7(C)	1	.....
	104(C)	.....	.....

FIELD OPERATIONS DIVISION—*Continued*

Accomplishments of Air Survey Section—Continued

	Number of Photos	Lineal Miles	Square Miles
Water Resources-Pollution Control—*Continued*			
Castlegar	113(IR)	125	.....
Champion Lakes	10(C)	3	.....
Crestbrook Forest Products (Skookumchuck)	9(C)	3	.....
Crown Zellerbach	9(C)	1	.....
Eurocan Pulp and Paper	14(C)	3	.....
Fording Coal	27(C)	16	.....
Fort Nelson	6(C)	2	.....
Hanson Lake (WASA)	12(C)	4	.....
Intercontinental Pulp and Paper	3(C)	1	.....
Island Paper (New Westminster)	14(C)	6	.....
Kamloops Pulp and Paper	11(C)	5	.....
	140(C)	.....	.....
Kimberley	140(IR)	91	.....
	102(C)	.....	.....
Kitimat	120(IR)	141	.....
MacMillan-Bloedel (Harmac)	20(C)	5	.....
MacMillan-Bloedel (Powell River)	33(C)	9	.....
MacMillan-Bloedel (Port Alberni)	13(C)	5	.....
Mackenzie	11(C)	3	.....
Michel Creek	15(C)	10	.....
North Kamloops	7(C)	3	.....
North Okanagan	880(C)	500	.....
Northwood Pulp	20(C)	3	.....
Prince George Pulp	3(C)	1	.....
Prince George	10(C)	5	.....
Rayonier Canada (Woodfibre)	16(C)	8	.....
Scott and Burnaby Paper	7(C)	2	.....
	46(C)	12	.....
Sparwood	21(IR)	.....	.....
St. Mary River	58(C)	35	.....
Tahsis Co. Ltd.	16(C)	15	.....
Taylor	60(IR)	35	.....
	71(C)	.....	.....
Trail	71(IR)	42	.....
Subtotals	2,516	1,224	.....
Totals	23,919	12,963	.....
Grand totals	53,599	12,950	74,470

3,889(C) = Colour. 632(IR) = Infrared.

MAP PRODUCTION DIVISION

Map and Air Photo Sales

Litho Map Distribution

	Requisitions	Provincial	Federal
Public sales	8,890	92,249	40,880
Government departments	5,194	18,578	42,899
	14,084	110,827	83,779
			194,606

White Print Maps

	Requisitions	Prints
Mail and counter sales	1,337	13,705
Government departments	15,190	306,262
	16,527	319,967

MAP PRODUCTION DIVISION—*Continued*

Offset

Number	214	2,465,403

Photo Reproduction

Mail and counter sales	7	337
Government departments	2,051	47,284
	2,058	97,621

Air Photo Distribution

	Requisitions	9×9	Enlarged	Colour
Public sales	3,567	78,850	1,528	1,542
Government departments	2,492	319,073	2,214	9,888
	6,059	397,923	3,742	11,430

Diapositives

	Requisitions	Number
Number	122	4,282

Air Photo Rentals

	Requisitions	Public[1]	Departments	Total
Number	1,871	6,122	31,279	37,401

[1] Being phased out, effective April 1975.

Total requisitions	40,935	Total counter sales	$36,784.57
Letters inward	9,570		

PLANIMETRIC COMPILATION SECTION

A total of 13,570 photographs was used in our basic Forest Inventory Mapping Program that resulted in the completion of 447 laydown map-sheets, of which 423 have been detail-plotted. Revision mapping projects utilized a further 15,818 photographs and resulted in the updating of 592 map-sheets.

Basic Forest Inventory Mapping Accomplishment

Project No.	PSYU	Number of Laydown Map-sheets	Number of Map-sheets Detail-plotted
74-114P	TFL 1	236	212 (20 chain)
75-14P	Alsek	12	12 (80 chain)
75-15P	Taku-Boundary-Dease	199	199 (40 chain)
Totals		447	423

MAP PRODUCTION DIVISION—*Continued*

Revision Mapping Accomplishment (20-chain Map-sheets)

Project No.	PSYU	Number of Map-sheets Detail-updated
74-103P	Okanagan	91
74-104P	Kett'e	46
74-105P	Big Bar	43
74-110P	Edgewood-Granby	53
74-115P	Salmon Arm-Shuswap	65
75-91P	Kamloops	67
75-114P	Stum	157
75-130P	Burns Lake	70
Totals		592

Special Mapping Projects

Project No.	Name	Number of Map-sheets	Originator	Scale
75-33T	Colby Mines area	1	Department of Mines	1/15840
75-34T	Raft River	1	Department of Mines	1/15840
75-42P	Kwoiek Creek	3	Forest Service	1/15840
75-49T	Giscombe Folio	2	Department of Lands	1/15840
75-53P	Spius Creek "Mate" Fire	3	Forest Service	1/15840

Photo Mosaic Accomplishment

Project No.	Name	Number of Map-sheets	Originator	Scale
72-23M	Cottonwood Folio	1	Department of Lands	1/20000
75-24M	Whites Landing Folio	1	Department of Lands	1/20000
75-27M	Meziadin Lake	1	Environment Canada	1/31680
75-29M	Kamloops area	1	Forest Service	1/63360
75-30M	Nicola Plateau	1	Forest Service	1/31680
75-43M	South Thompson River	17	Department of Highways	1/4800
75-44M	Bouchie Lake	1	Water Resources	1/4800
75-52M	Kootenay grazing lands	22	Forest Service	1/15840 1/31680
75-75M	Pantage Lake	1	Department of Lands	1/20000
75-79M	Zeballos Townsite	1	Department of Lands	1/12000
75-80M	Tahsis Townsite	1	Department of Lands	1/12000
75-82M	Comox Harbour	1	Department of Lands	1/10000
75-115M	Wansa Creek	1	Department of Recreation and Conservation	1/15840
75-124M	Junction Wildlife Management area	2	Department of Recreation and Conservation	1/15840
75-142M	Courtenay-Comox	2	Department of Lands	1/18000
75-144M	UBC Endowment Lands	1	Department of Lands	1/7200
75-145M	Gibraltar Mines	1	Department of Mines	1/15840
75-146M	Parksville-Englishman River	1	Department of Lands	1/12000

The total man-hours expended by this Section amount to over 26,400, of which 90 per cent of the capability is directed toward the Forest Service.

MAP PRODUCTION DIVISION—*Continued*

Forestry Mapping

FINISHED SHEETS

Project No.	40 Chains to 1 Inch	Number of Sheets
75-14P	Alsek	39
	(Also at 80-chain)	12
	20 Chains to 1 Inch	
	Salmon Arm	54
	Big Bar	88
	Soo	83
	Okanagan	97
	TFL 1	30
	Total	352

GRIDS AND CONTROL

75-15P	Boundary (Op. 7)	16
	Taku (Op. 7)	94
	Dease (Op. 9)	90
	Nechako (Op. 10)	119
	TFL 1 (Op. 27)	196
	Total	515

GRIDS ONLY

Kluskus (Op. 14)	50
West Lake (Op. 16)	34
Kettle (Op. 27)	46
Granby	20
Dean (Op. 19)	170
Total	320

Six employees—1,284 man-days.

Composite Mapping

NEW MAPPING

	Number of Sheets
Quadra Island	9
Lac la Hache	9
Base Flats to Royston	7
Queen Charlotte Islands	18

OVERLAYS

Muncho Lake	2
Fort Nelson	21
Elk Lake Park	2
Cape Scott Park	6
Total	74

1:50,000 Federal National Topographic △ Program: Lot detail.

Cadastral information prepared for 51 sheets.

MAP PRODUCTION DIVISION—*Continued*

Topographic Mapping

No.	Project	For	Scale	Contour Interval	Status[1]
74-2T	Creston	W.I.B.	1:1200	2′	IP
74-5T	Vernon Creek	W.I.B.	1:6000	10′, 20′, 100′	IP
74-17T	Hope-Merritt	Highways	1:1200	5′	C
74-45T	Muncho Lake	Rec. & Con.	1:2400	5′	C
	Muncho Lake	Rec. & Con.	1:12000	10′	C
74-46T	Meziadin Lake	Rec. & Con.	1:2400	5′	C
	Meziadin Lake	Rec. & Con.	1:12000	10′	C
74-47T	Gwillim Lake	Rec. & Con.	1:12000	20′	IP
74-50T	Mud Bay	Rec. & Con.	1:12000	1′	IP
74-77T	Fort Nelson	W.I.B.	1:6000	10′	C
74-81T-O	Kamloops Floodplains	W.I.B.	1:4800	5′, 10′	C
74-4T	Cape Scott	Parks	1:12000	20′	C
74-6T	Elk Lakes Park	Parks	1:12000	20′	C
74-9T	Wells Gray Park	Parks	1:12000	20′	C
74-37T	Postill and South Lakes	W.I.B.	1:1200	2′	IP
74-28T	Fraser River Floodplain (Chilliwack)	W.I.B.	1:5000	Spot	IP
	Fraser River Floodplain (Chilliwack)	W.I.B.	1:2500	1 m	IP
74-67T	Terrace	Lands	1:2500	2 m	IP
74-109T-O	Kamloops (S. Thompson)	W.I.B.	1:2500	1 m, 5 m	IP
74-116T	Williams Beach	Lands	1:5000	2 m	C
74-117T	Bellevue Road	Lands	1:5000	2 m	C
75-6T	Kutcho Creek	Mines	1:25000	20 m	C
75-10T	Lac du Bois	Lands	1:20000	20 m	C
75-13T	Hudson Hope	Lands	1:5000	5 m	C
75-17T	Langford-Metchosin	Dunhill Corp.	1:2400	5′	C
75-18T	Trout Creek	W.I.B.	1:2500	2 m	C
75-20T	Port Simpson	Highways	1:7200	20′	C
75-22T	Fraser Lake	Lands	1:7200	10′	C
75-23T	Cottonwood	Lands	1:20000	10 m	C
75-25T	Western Community	Cap. Reg. Dist.	1:12000	5′	C
75-28P	W.R.S. Lakes	W.I.B.	1:2400	------	C
75-35T	Highway 3 (Mile 20–28)	Highways	1:4800	20′	IP
75-36T	Highway 3 (Mile 54–71)	Highways	1:4800	20′	IP
75-37T	Highway 24	Highways	1:4800	20′	IP
75-39T	Peace River	Hydro	1:2400	5′	C
75-41T	Sustut Extension	Mines	1:15840	50′	C
75-45T	South side Williams Lake	Lands	1:20000	10 m	C
75-46T-O	Whistler Resort area	Lands	1:2400	5′	C
75-50T	Hope Merritt add.	Highways	1:4800	10′	C
75-54T	Logan Lake area	Lands	1:2500	10′	C
75-55T	Logan Lake south	Lands	1:2500	10′	C
75-60T	Wells	W.I.B.	1:5000	5 m, 10 m	C
75-63-O	Peace DL 2222	Lands	1:31680	------	C
75-64T-O	Sowaqwa Creek	Forests	1:31680	100′	C
75-65T-O	Chapman Creek	Forests	1:31680	100′	C
75-68-O-T	Langley properties	Secretariat	1:10000	------	C
75-69-O-T	Ootishenia	Secretariat	1:20000	------	C
75-70-O	92 P/1	Secretariat	1:50000	------	IP
75-72-O	Craigmont Mine area	Mines	1:6000	------	IP
75-73T-O	Kamloops-Vavenby	W.I.B.	1:5000	1 m	IP
75-76-O-T	Gerimi	Lands	1:20000	100′	C
75-77T	Fairview irrigation	W.I.B.	1:5000	1 m	C
75-78T	Kitimat	W.I.B.	1:6000	10′, 20′	C
75-81T-O	July Creek	Forests	1:20000	100′	C
75-86T	Barlow	Lands	1:2500	10′	C
75-87T	Quesnel	Lands	1:2500	5′, 10′	C
75-88T	Baker Creek	Lands	1:2500	10′	C
75-89T-O	Cartwright Lakes	Forests	1:15840	25′, 100′	C
75-92-O	Campbell River	Lands	1:10000	------	IP
75-94T-O	Sayward	Forests	1:20000	25′, 100′, 200′	IP
75-95T-O	McKay Creek	Forests	1:20000	100′	C
75-96T-O	Gaspard Creek	Forests	1:20000	100′	C
75-97T-O	Meldrum Creek	Forests	1:20000	100′	IP
75-98T-O	Skelly Creek	Forests	1:20000	100′	IP
75-99T-O	Colin Graves Creek	Forests	1:20000	100′	IP
75-100T	Good Hope Lake	Lands	1:5000	10′	C
75-101T	Bear Pass	Highways	1:4800	10′	C
75-105T	Prince George millsite	Econ. Develop.	1:12000	20′	C
75-106T-O	Brook McPhail	Forests	1:20000	100′	IP
75-107T-O	Marshall Ridge	Forests	1:20000	100′	IP
75-108T-O	Silver Star west	Forests	1:20000	100′	IP
75-109T-O	Mission Creek	Forests	1:20000	100′	IP
75-110T-O	McNulty Creek	Forests	1:20000	100′	IP
75-111T-O	Hihium Creek	Forests	1:20000	100′	IP

[1] C—Complete. IP—In progress.

MAP PRODUCTION DIVISION—*Continued*

Topographic Mapping—Continued

No.	Project	For	Scale	Contour Interval	Status[1]
75-112T-O	Bull Isintok Creek	Forests	1:20000	100′	IP
75-113T-O	Deadman Creek	Forests	1:20000	100′	IP
75-116T-O	Narrow Lake	Forests	1:20000	100′	IP
75-117T-O	Hackney Hills	Forests	1:20000	100′	IP
75-118T-O	Ahbau Lake	Forests	1:20000	100′	IP
75-122T	Holyoak and Silver Lakes	W.I.B.	1:2400	2′, 5′	C
75-123T-O	Wildhorse-Lewis	Secretariat	1:50000	100′	C
75-125T	Five Mile Bay	Lands	1:7920	10′, 20′	C
75-126T-O	Gambier Island	Lands	1:20000	100′	C
75-132T	Nimpkish River	Lands	1:12000	20′	IP
75-135T	Salmo Creston	Highways	1:4800	10′, 25′, 50′	C
75-140T	Spahats	Public Works	1:480	5′	C
	Spahats	Public Works	1:240	1′	C
75-143T-O	Egmont	Lands	1:20000	5 m	IP

[1] C—Complete. IP—In progress.

Lithographed Maps Printed in 1975

Map No.	Name	Edition	Scale	Contour Interval	Remarks
82G/SE	Flathead	Second	1:125,000	50 m	Complete revision.
82G/SW[1]	Elko	Second	1:125,000	200′	Complete revision.
92B/NW-SW	Victoria	Second	1:125,000	50 m	Complete revision.
92C/NE-NW-SE	Nitinat Lake	First	1:125,000	50 m	Seven colours, contoured.
92F/SW	Kennedy Lake	First	1:125,000	50 m	Seven colours, contoured.
92G/SW	Vancouver	Second	1:125,000	50 m	Complete revision.
92I/NW[1]	Ashcroft	Third	1:125,000	50 m	Complete revision.
82M[1]	Seymour Arm	Second	1:250,000	500′	Complete revision.
83D-C[1]	McNaughton Lake	Second	1:250,000	500′	Complete revision.
93M	Hazelton	Fourth	1:250,000	150 m	Partial revision.
94A	Fort St. John	Second	1:250,000	50 m	Seven colours, contoured.
94B	Halfway River	First	1:250,000	150 m	Seven colours, contoured.
94H[1]	Beatton River	First	1:250,000	50 m	Seven colours, contoured.
94I[1]	Fontas River	First	1:250,000	50 m	Seven colours, contoured.
94J[1]	Fort Nelson	First	1:250,000	150 m	Seven colours, contoured.
94K[1]	Tuchodi Lake	First	1:250,000	150 m	Seven colours, contoured.
94N[1]	Toad River	First	1:250,000	150 m	Seven colours, contoured.
94O[1]	Maxhamish Lake	First	1:250,000	50 m	Seven colours, contoured.
94P[1]	Petitot River	First	1:250,000	50 m	Seven colours, contoured.
103F[1]	Graham Island	Second	1:250,000	500′	Complete revision.
103I-J[1]	Prince Rupert-Terrace	Third	1:250,000	100 m	Complete revision.
1E[2]	Southeastern B.C.	Third	1:600,000	.....	Partial revision.
1F[2]	West central B.C.	Third	1:600,000	.....	Partial revision.
1G[2]	East central B.C.	Third	1:600,000	.....	Partial revision.
1J[1]	British Columbia	1975	1:2,000,000	.....	Partial revision.
1JW[1]	Administrative Boundaries for Wildlife Management	1975	1:2,000,000	.....	One colour overprint on 1J.
(1)	B.C. Recreational Atlas	1975	1:600,000	.....	Seven colours.
(1)	B.C. Air Facilities	1975	1:30 miles	.....	Complete revision.
	REPRINTS				
82L/SE	Sugar Lake	Second	1:125,000	100′	No revision.
82L/SW	Vernon	Second	1:125,000	100′	No revision.
82L/NE	Revelstoke	First	1:125,000	100′	No revision.
82L/NW	Shuswap Lake	Second	1:125,000	100′	No revision.
92G/SE	Langley	Second	1:125,000	100′	No revision.
92H/NW	Yale	Second	1:125,000	100′	No revision.
92I/NE	Kamloops Lake	Second	1:125,000	100′	No revision.
92J/NE	Bridge River	First	1:125,000	100′	No revision.
92M	Rivers Inlet	Second	1:250,000	500′	No revision.
92P	Bonaparte River	Third	1:250,000	500′	No revision.
93A	Quesnel Lake	First	1:250,000	500′	No revision.
93B	Quesnel	First	1:250,000	500′	No revision.
93J	McLeod Lake	First	1:250,000	500′	No revision.
93K	Fort Fraser	Third	1:250,000	500′	No revision.
93L	Smithers	Third	1:250,000	500′	No revision.
1JR	B.C. Relief	Second	1:30 miles	.....	No revision.

[1] Lithographed during 1975.
[2] Will be lithographed between January 1, 1976, and March 31, 1976.

Map Sales, Air Photo, Photographic, and Printing Services, May to December 1975

	Maps			Air Photo Section						Photographic and Printing					Total Cost
	Reqs.	No.	Cost	Reqs.	10 × 10	Diaps.	Enlgs.	Mosaics	Colour	Cost	Reqs.	White-prints	Offset	Photo	Cost	
Government departments:			$							$					$	$
Agriculture	33	223	234	48	391	.....	124	.....	.....	1,106	73	652	.....	144	1,318	2,658
Attorney-General	30	224	310	6	10	.....	30	2	.....	43	31	16	19,267	53	784	1,137
Education	20	181	195	2	.....	.....	55	.....	.....	19	1	3	.....	.....	1	215
Finance	6	32	36	15	3,109	.....	.....	.....	.....	3,886	10	146	.....	11	100	4,022
Health	24	122	203	1	6	.....	.....	.....	.....	8	185	12	2,500	780	1,879	2,090
Housing	8	17	38	12	63	.....	2	1	5	109	46	667	.....	10	241	388
Highways	270	1,998	2,319	214	5,769	.....	98	29	326	8,397	1,533	44,814	14,013	12,551	21,414	32,130
Human Resources	10	27	45	2	5	.....	4	.....	.....	66	20	36	7	68	262	373
Lands	574	2,876	3,999	723	70,690	919	428	199	3,625	96,514	3,474	22,091	763,612	9,850	58,063	158,576
Forests	586	5,950	10,032	376	89,186	.....	150	8	40	107,403	1,147	8,736	239,315	7,504	25,758	143,193
Water Resources	354	2,098	2,668	211	11,123	5	174	.....	2,293	27,175	1,454	10,607	364,242	5,833	25,971	55,814
Mines, Petroleum	134	1,493	1,848	39	1,724	.....	2	.....	364	3,262	846	4,053	2,602	2,485	14,847	19,957
Municipal Affairs	41	321	361	19	817	.....	42	2	25	1,555	404	4,767	356	559	6,814	8,730
Provincial Secretary	136	1,419	1,458	4	45	.....	1	.....	.....	62	177	1,322	84,160	3,550	3,610	5,130
Public Works	20	63	150	21	357	.....	5	.....	1	541	610	71,902	2,153	23,092	31,323	32,014
Rec. and Con.	400	4,484	6,264	142	11,662	.....	31	18	679	13,179	361	3,152	31,654	1,400	7,981	27,424
Secretariat	185	1,889	2,636	72	8,086	1	3	.....	18	10,239	642	6,067	261,125	3,772	16,841	29,716
Transport	30	379	430	7	42	.....	194	.....	.....	166	57	25	.....	818	461	1,057
Economic Development	18	196	227	1	.....	.....	.....	.....	3	9	3	51	.....	4	18	254
Miscellaneous	16	78	146	.....	.....	.....	.....	.....	.....	.....	20	.....	5,000	94	177	323
Subtotals	2,895	24,070	33,599	1,915	203,085	925	1,343	259	7,379	273,739	11,094	179,119	1,790,006	72,578	217,863	525,201
Public	6,004	96,612	135,044	2,605	61,103	1,153	1,062	205	325	92,727	783	8,716	.....	268	9,958	237,729
Totals	8,899	120,682	168,643	4,520	264,188	2,078	2,405	464	7,704	366,466	11,877	187,835	1,790,006	72,846	227,821	762,930

university endowment Lands

UNIVERSITY ENDOWMENT LANDS

Erosion of the bluffs along Spanish Banks continues to be a problem requiring attention. The winter storms cause the sea to gnaw away at the base of the cliffs, resulting in undercutting and subsequently sloughing along the cliff face. In addition to the erosion taking place at the base of the cliffs, surface water from heavy winter rains spills over the cliffs just west of No. 1 Ravine and to a lesser extent in No. 2 Ravine, causing extensive slippage areas to develop above Marine Drive.

During the year under review a program was commenced to replace boulevard trees in some of the roads in the University Endowment Lands. The project is 50 per cent completed on Acadia Road north of Chancellor and fully completed on Allison Road. The recapping program of roadways is also continuing and, during 1975, West Sixth and West Seventh Avenues and Drummond Drive were resurfaced.

The report for 1974 mentioned that the University Endowment Lands ambulance service has been brought under the provisions of the *Ambulance Service Act* and, during 1975, there was an increase of over 24 per cent in emergency calls responded to by our staff.

On December 1, 1975, an announcement was made by the Minister that 1,066 acres of the University Endowment Lands had been set aside as a park to be known as Dr. Frank Buck Memorial Park. Included in the 1,066 acres is an ecological reserve of 221 acres. By comparison this area set aside for park purposes is slightly larger than Vancouver's Stanley Park. The attached map shows the area involved. Contained in the 221-acre ecological reserve is the largest heronry in the Lower Mainland. There are two areas on the edge of the park south of 16th Avenue that have not been included in the park. It has been suggested that these two areas may be suitable for recreational, social, and senior citizen development over the years.

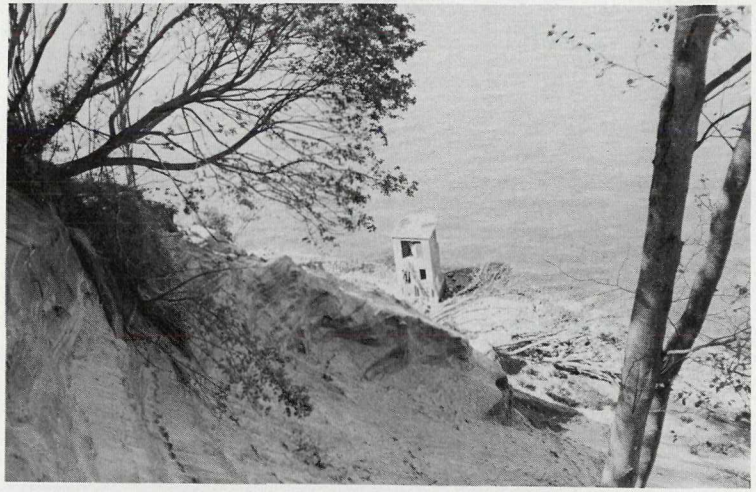
Renovation of the University Endowment Lands Golf Course is progressing. Four holes remain to be done to complete the renovation program. A new clubhouse also has to be built. The revenue for the golf course during 1975 was $22,000 more than in 1974, which suggests that the increase in play is a result of the improved condition of the golf course.

Interest in the Endowment Lands as a residential area continues high with sales of single-family dwellings reaching up to $350,000.

The attached table, showing comparison of revenue over the last 10 years, records that for the third consecutive year our total has exceeded $1 million. The comparative summary of building permits issued for the last three years is also included.

Erosion from surface run-off at No. 1 Ravine.

Recently renovated portion of UEL golf course.



Beach erosion at Spanish Banks.

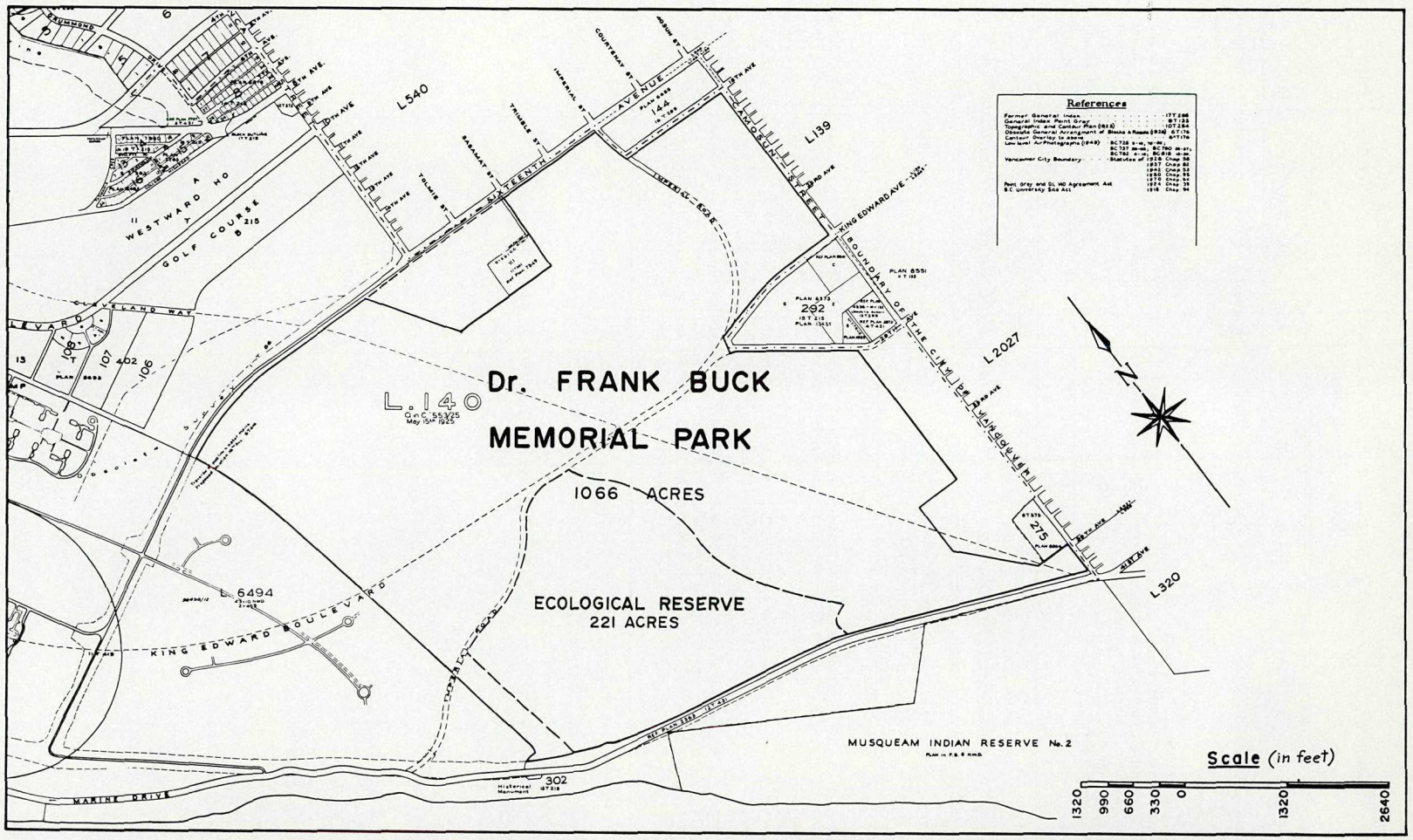
No. 2 Ravine as seen in 1970.

Number and Value of Building Permits Issued for the Calendar Years 1973, 1974, and 1975

	1973		1974		1975	
	Number	Value	Number	Value	Number	Value
		$		$		$
New dwellings	---	----------	1	150,000	---	----------
Alterations to dwellings	18	106,480	17	195,230	18	272,300
Alterations to commercial buildings	2	44,300	---	----------	1	5,000
Alterations and additions to schools	1	6,000	---	----------	2	107,000
Garages, etc.	2	5,000	3	9,000	1	3,600
Swimming-pools	1	7,000	3	24,500	1	45,000
Totals	24	168,780	24	378,730	23	432,900

University Endowment Lands Revenue, 1966 to 1975, Inclusive

Year	Water	Lease and Sundry Rents	Garbage	Misc. Revenue	Taxes and Grants	Golf Course	Total Revenue
	$	$	$	$	$	$	$
1966	114,098.68	34,799.64	11,355.11	9,360.86	325,689.97	----------	495,304.26
1967	135,870.74	49,745.23	14,964.45	20,755.71	349,242.55	----------	570,578.68
1968	160,610.25	36,148.37	10,814.88	19,502.85	386,105.36	----------	613,181.71
1969	157,368.01	42,476.19	5,859.42	6,535.36	416,081.90	----------	628,320.88
1970	180,441.79	39,658,85	10,736.60	30,064.18	667,722.12	----------	928,623.54
1971	169,911.07	51,975.47	7,377.70	14,167.37	515,615.58	78,398.93	837,446.12
1972	179,199.93	39,614.37	7,971.25	30,944.39	515,797.59	147,056.71	920,584.24
1973	208,491.67	39,967.69	9,349.54	39,936.88	630,092.29	95,313.48	1,023,151.55
1974	206,338.11	40,070.57	11,199.10	22,591.92	642,072.04	157,511.32	1,079,783.06
1975	225,987.44	46,516.97	10,508.25	28,449.46	1,213,187.24	179,361.22	1,704,010.58
	1,738,317.69	420,973.35	100,136.30	222,308.98	5,661,606.64	657,641.66	8,800,984.62



Dr. FRANK BUCK
MEMORIAL PARK
1066 ACRES
ECOLOGICAL RESERVE
221 ACRES
L.140
Q.n.C. 553/25
May 15th 1925
L540
L139
L2027
L320
L6494
292
275
302
Historical Monument
WESTWARD HO
GOLF COURSE
CLEVELAND WAY
KING EDWARD BOULEVARD
MARINE DRIVE
SIXTEENTH AVENUE
CAMOSUN STREET
BOUNDARY OF THE CITY OF VANCOUVER
KING EDWARD AVE
IMPERIAL ROAD
MUSQUEAM INDIAN RESERVE No. 2
Scale (in feet)
1320
990
660
330
0
1320
2640
N
References
Former General Index
General Index Point Gray
Topographic and Contour Plan (1923)
Operator Overlay to above
Low level Air Photographs (1949)
Vancouver City Boundary
Point Gray and DL 140 Agreement Act
B.C. University Site Act

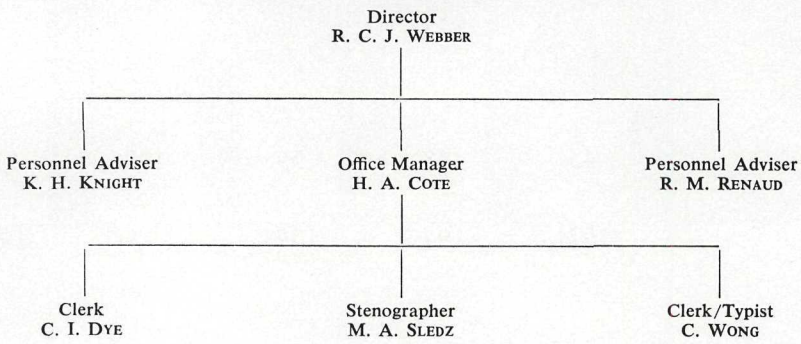
personnel services

PERSONNEL SERVICES

This office provides personnel services to the Water Resources Service and the Secretariat to the Environment and Land Use Committee as well as to the Lands Service.

Activity during the year continued at a rapid pace despite a downswing in recruiting activity over previous years. It is felt that the main reason for this was the continuing high demand from union negotiations and classification plus an increase in union grievances and contract interpretations as a result of the new contracts, as well as an increase in statistical reports and staff transfers required due to Treasury Board's cut-back in hiring.

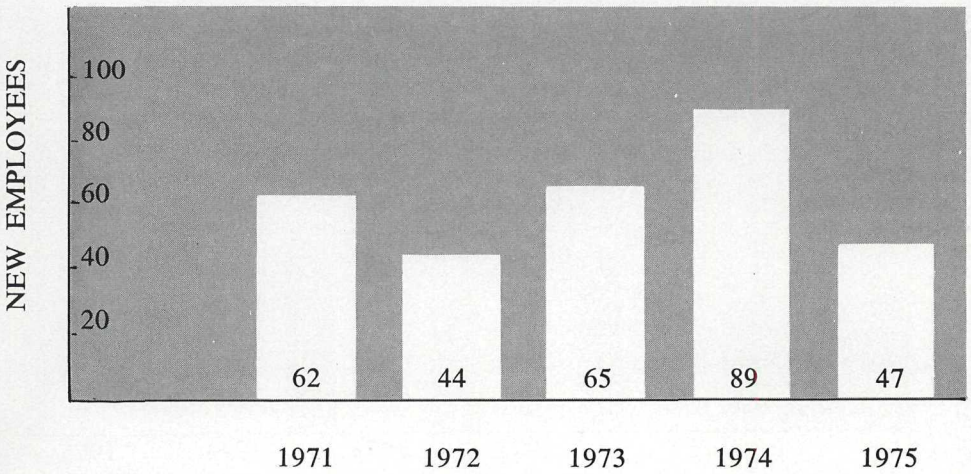
Organization of the Personnel Services Office



SUMMARY OF PERSONNEL SERVICES ACTIVITIES, 1975

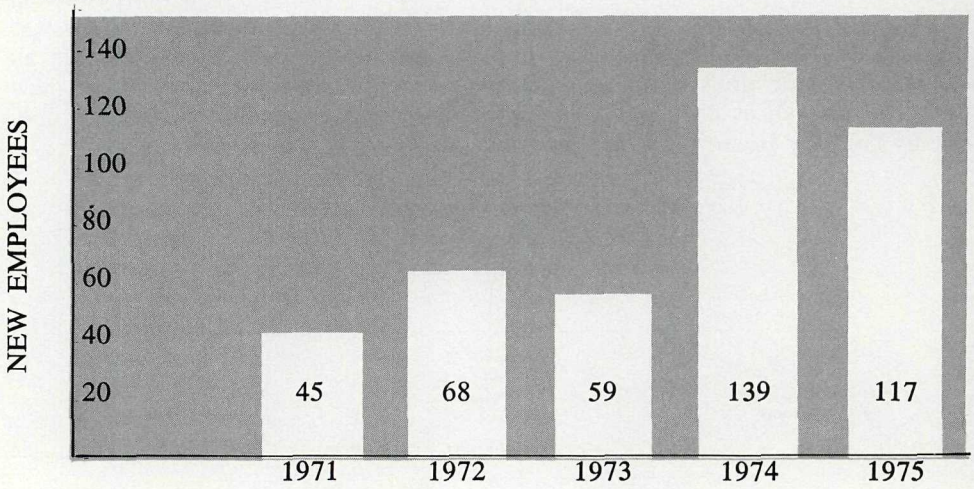
RECRUITMENT OF CONTINUOUS STAFF

In early 1975 the Government placed restrictions on the number of vacant positions that could be filled; this resulted in a decrease in recruiting activity from the previous year.



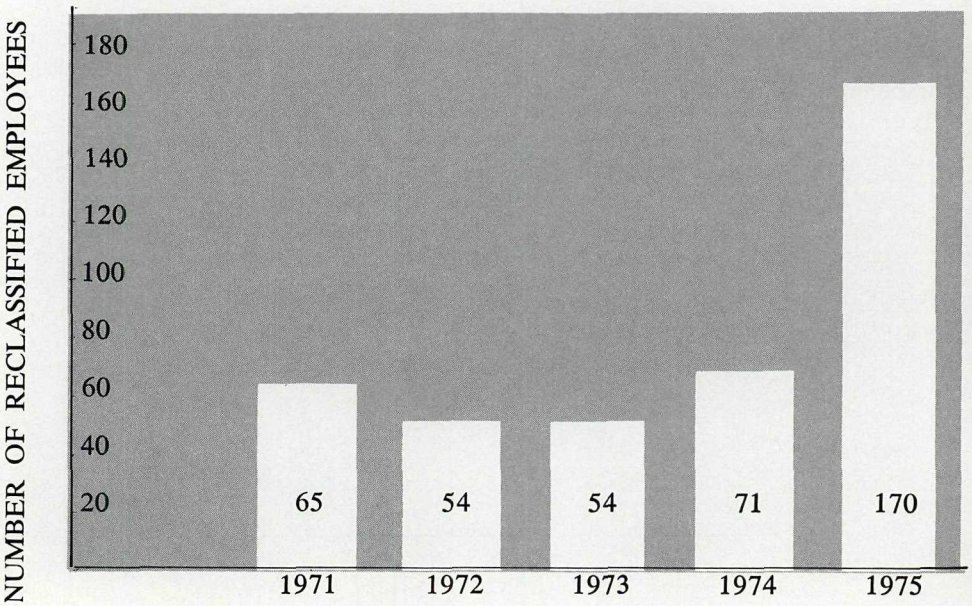
Seasonal and Short-term Appointments

Short-term hiring was down slightly in 1975 in comparison with 1974. The main reason for this was a reduction in the funds made available to the Service by the Department of Labour under the summer Work in Government program (W.I.G.). Additionally fewer students could be hired with the Departmental and the Department of Labour funding available as salaries had increased while total funds had not.



Reclassifications

A very substantial increase in reclassifications occurred during 1975. A major reason for this increase was the implementation of a new Technical Assistant Classification Series; as a result many draughtsmen and mapping assistants were reclassified to higher levels in the Technical Assistant Series.



Labour Relations

The Government signed its first contract with the British Columbia Government Professional Employees Association on June 20, 1975. As this contract covers a significant number of the Services employees, much of the Director's time was spent in providing management input into these negotiations. Separate component negotiations covering salaries for engineers, surveyors, and land officers also occupied the time of our staff, and as of the year-end we had not reached agreement with the land officers.

The second master contract with the British Columbia Government Employees' Union, the union representing the majority of our employees, was signed on November 14, 1975. Only a limited amount of this office's time was devoted to this contract, but we have become very much involved in developing greater Departmental involvement at the line level, in component negotiations. To date this new system seems to be working quite well in the Trades and Craft component with R. P. Murdoch, Manager of the University Endowment Lands, representing the Service at the bargaining table.

Reorganization

A major reorganization occurred in 1975 with the formation of the Land Management Branch, which consolidated the Land Inspection Division, the Lands Administration Division, and the Environmental Services Division into one unit.

G. H. Wilson was appointed Director of this new Branch, concurrent with the appointment of W. R. Redel as Assistant Deputy Minister.

Principal Promotions, Appointments, and Transfers Within the Lands Service During 1975

In addition to the above-mentioned promotions, the following major changes occurred:

K. R. MacKay, promoted to Departmental Comptroller.

A. Paulsen, promoted to Assistant Director, Southern Interior Division.

F. Edgell, promoted to Assistant Director, Northern Division.

A. Rhoades, promoted to Assistant Director, Lower Coast Division.

A. Smith, promoted to Assistant Director, Policy Division.

D. Goodwin, promoted to Assistant Director, Special Programs Division.

R. N. Bose, promoted to Regional Land Manager, Skeena Region.

H. K. Boas, promoted to Regional Land Manager, Omineca-Peace Region.

D. I. Snider, promoted to Regional Land Manager, Thompson-Okanagan Region.

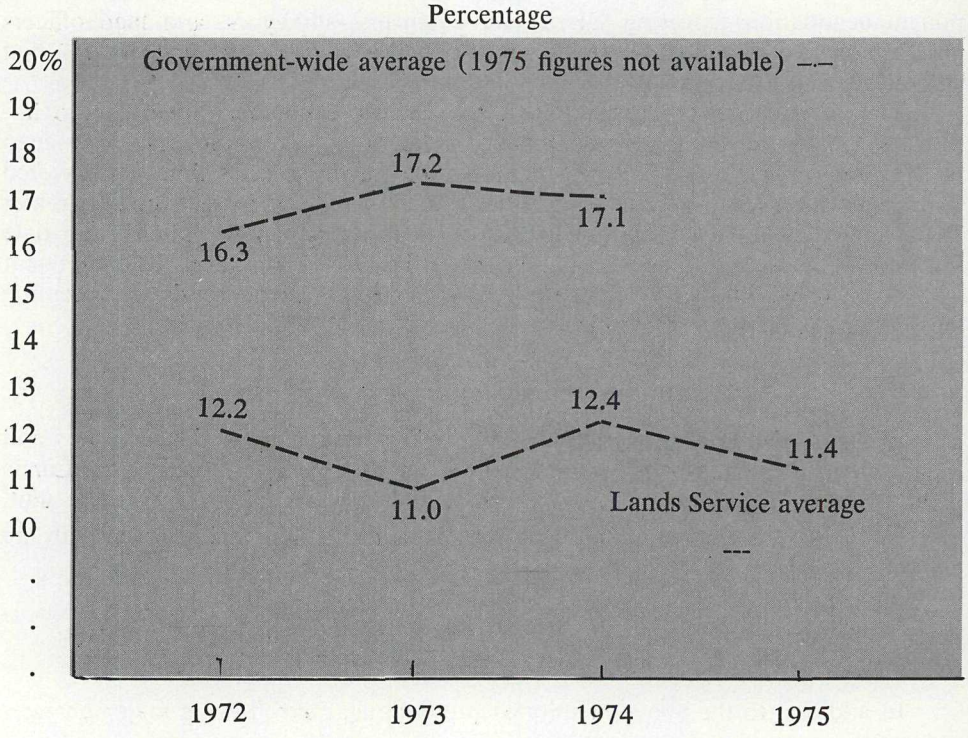
H. L. Wenschlag, promoted to Regional Land Manager, Kootenay Region.

Establishment

	Dec. 31, 1975
Number of established positions	460
Number of vacant established positions	40
Number of temporary employees on staff	37
Total number of employees on staff	457

Turnover

It is suspected that the higher wages brought about through collective bargaining and the relatively high levels of unemployment in the country contributed to the continued low turnover in 1975.



STAFF TRAINING

Executive Development Training Plan 1975 graduates:

L. G. Smith, Technician, Map Production Division.

L. M. Warner, Land Officer, Land Management Branch.

Correspondence Course in Public Administration 1975 graduates:

T. Chow, Draughtsman, Map Production Division.

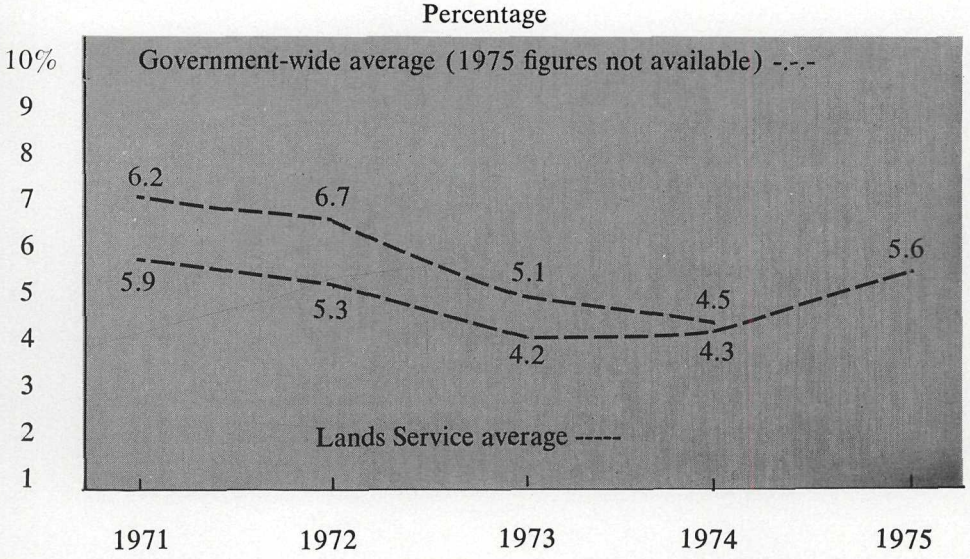
H. A. Crawford, Fire Captain, University Endowment Lands.

Additionally, employees received financial assistance on 40 courses that would aid them in developing their skills and increase their potential within the British Columbia Government.

SICK LEAVE

An analysis of sick leave taken in 1975 shows that approximately one quarter of the sick leave total was taken by only 15 employees (3.3 per cent) who were on leave for prolonged periods due to major illnesses. Although this may account for a significant portion of the sick leave taken, it does not fully explain the reason for the increase over the immediately preceding years; however, the Personnel Office

is currently in the process of introducing major changes in the administration of sick leave in the Department and it is felt that this will have a significant positive impact in the future.



Retirements

The following employees retired in 1975:

Thomas Hinton, Supervisor of Map Distribution, Surveys and Mapping Branch, after 39 years service.

Clarence House, Land Management Branch, after 12 years service.

A. H. (Bert) Ralfs, Surveyor-General, Surveys and Mapping Branch, after 46 years service.

Evelyn Rhodes, Clerk, Surveys and Mapping Branch, after 36 years service.

accounting division

ACCOUNTING DIVISION

This Division provides accounting services for the Water Resources Service and the Environment and Land Use Committee Secretariat as well as the Lands Service. These services include assistance with the preparation of estimates, budgetary control, the preparation and distribution of payroll data, the processing of accounts payable and purchase requisitions, the billing and collection of Water Rights, Lands Branch, and Surveys and Mapping revenue, and the preparation of various reports and summaries for other Provincial and Federal Government departments.

Because of staff turnover, increased expenditures, and numerous complexities and adjustments arising from the collective bargaining process, it has been a very hectic year for the payroll and accounts payable sections. Serious delays in payments which occurred during the year were somewhat alleviated in October when we were permitted to add one temporary employee to each section. The staff additions also made it possible to focus more attention on expenditure control.

During the year the Division lost to the Emergency Health Services Commission its Comptroller, Bruce Maclean, who had been with us for 22 years, and Ron Bowes, from the accounts payable section, who had been with the Division for 10 years.

It is anticipated that during 1976 the accounting for Lands Service revenue will be computerized and the Accounting Division has been assisting in the development of an efficient lease records system.

As at December 31, 1975, there were 15,275 lease accounts.

Summary of Lands Service Net Revenue Collections for the Year Ended December 31, 1975

	$
Land leases, rentals, fees, etc.	4,218,372.53
Land sales	1,200,350.84
Sale of maps and air photos	291,921.88
Net revenue collections	5,710,645.25

Comparison of Revenue Collections for 10-year Period, 1966–75, Inclusive

	$
1966	3,343,672.46
1967	2,985,996.61
1968	3,367,912.14
1969	3,999,273.13
1970	3,025,000.24
1971	4,580,312.19
1972	4,878,666.29
1973	4,729,570.85
1974	4,658,818.52
1975	5,710,645.25

Classification of Revenue Collections for the Year Ended December 31, 1975

	$	$	$
Land sales—			
Country lands		999,931.86	
Town lots		221,745.16	
Surface rights		1,505.30	
Indian reserve cut-off		500.00	
			1,223,682.32
Land leases, rentals, fees, etc.—			
Foreshore leases—			
Booming and log storage	890,285.22		
Commercial (marinas, etc.)	564,100.41		
Oyster	17,893.20		
Miscellaneous (foreshore protection, etc.)	130,396.34		
		1,602,675.17	
Land leases—			
Grazing and (or) agriculture	444,442.15		
Quarrying (limestone, sand, and gravel)	75,022.00		
Camp-site (lodge, fishing)	435.00		
Home-site	1,429.38		
Residential	719,513.12		
Miscellaneous	210,801.62		
		1,451,643.27	
Land use permits		1,337.00	
Licences of occupation		88,908.00	
Royalty collections		707,766.93	
Bonus bids (lease tenders and auctions)		128,075.00	
Easement collections—			
Annual rentals	52,781.74		
Outright considerations	112,684.22		
		165,465.96	
Fees—			
Crown grant	29,734.84		
Assignments	20,010.00		
Miscellaneous (lease, search, etc.)	52,678.82		
		102,423.66	
Sundry collections (occupational rental, survey charges, etc.)		54,525.37	
			4,302,820.36
Sale of maps and air photos—maps, air photos, survey posts, etc. (includes composite mapping)			317,188.03
Gross revenue for year			5,843,690.71
Less refunds and taxes			133,045.46
Net revenue for year			5,710,645.25

Comparison of Land Leases, Rentals, Fees, Etc., Revenue for 10-year Period, 1966–75, Inclusive

	$
1966	1,514,749.69
1967	1,917,435.31
1968	2,189,055.75
1969	2,553,351.23
1970	2,283,719.11
1971	3,093,281.59
1972	3,268,205.08
1973	2,906,536.84
1974	3,501,138.48
1975	4,218,372.53

Comparison of Land Sales Revenue for 10-year Period, 1966–75, Inclusive

	$
1966	1,692,861.14
1967	916,098.98
1968	1,024,410.93
1969	1,251,111.88
1970	518,015.63
1971	1,297,075.28
1972	1,411,178.27
1973	1,615,079.10
1974	915,420.38
1975	1,200,350.84

mail and file room

MAIL AND FILE ROOM

Letters received in the Department during 1975 amounted to 218,041, compared to 246,199 in 1974, a decrease of 28,158 pieces. This reduction can be attributed to the six-week Federal Post Office labour dispute during the latter part of the year.

The colour coding of the less active "O" files was completed during the year, which places the major portion of the Departmental files in folders, affording better protection for stored correspondence.

Mail and File Room Work Load

LETTERS INWARD

	1975	1974	10-year 1966-75 Average,
Branch—			
Lands	62,401	66,094	64,189
Forests	101,644	116.614	120,999
Water	37,921	44,024	36,906
Surveys	16,075	19,467	22,453
Totals	218,041	246,199	244,547

LETTERS OUTWARD (RECORDED)

Branch—			
Lands	10,366	13,366	13,539
Forests	1,866	1,400	1,866
Totals	12,232	14,766	15,405

MISCELLANEOUS REPORTS

Designation—			
Forest-fire reports	2,708	2,555	2,609
Logging inspection	3,549	13,077	8,182
Land classification	5,440	5,979	5,838
Totals	11,697	21,611	16,629

NEW FILES CREATED

Designation—			
"O" files	2,946	6,359	6,761
Timber mark files	1,367	1,711	1,500
Timber sale files	430	554	918
Totals	4,743	8,624	9,179

Microfilm reference, 1,337.

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1976

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