REPORT

OF THE

MINISTER OF PUBLIC WORKS

OF THE PROVINCE OF

BRITISH COLUMBIA

FOR THE

FISCAL YEAR 1911-12

THE GOVERNMENT OF
THE PROVINCE OF BRITISH COLUMBIA.

PRINTED BY
AUTHORITY OF THE LEGISLATIVE ASSEMBLY.

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1913.

To His Honour THOMAS W. PATERSON,
Lieutenant-Governor of the Province of British Columbia.

MAY IT PLEASE YOUR HONOUR:

Herewith I beg respectfully to submit the Annual Report of my Department for the fiscal year ended 31st March, 1912, in compliance with the provisions of the "Public Works Act."

THOMAS TAYLOR,
Minister of Public Works.

Works Department,
Victoria, B.C., January, 1913.

PUBLIC WORKS REPORT.

Work done on Streets, Roads, and Trails during the fiscal Year 1911-12.

District.	Cleared.	Grubbed.	Graded.		Ditched.	Corduro'd	Cribbed.	Excavat'd Earth.	Excavat'd Rock.	Filled in.	Stoned.	Deposited Gravel.	Built Culverts.	Remarks.
	Acres.	Acres.	Length. Feet.	Width. Feet.	Length. Feet.	Supl. Yds.	Supl. Ft.	Cubic Yds.	Cubic Yds.	Cubic Yds	Supl. Yds.	Supl. Yds.	Number.	
Alberni, East	30.19	22.62	4,536	6	65,591	2,636	.....	1,372	190	1,807	846	17,430	102	
			42,812	6 to 12										
			6,779	12 to 18										
			10,268	18 to 24										
Alberni, West	41.42	24.82	19,876	6 to 12	61,599	1,928	3,150	24,146	3,355	23,665	1,988	38,622	62	Slashed 1 1-10 acres.
			31,715	12 to 18										
			26,843	18 to 24										
			450	36 to 42										
			2,360	66										
Alberni, Trails	13.94	2.24	23,955	6	6,780	572	.....	384	.....	336	.....	.....	4	
			2,870	16										
Atlin, Atlin	.....	.....	700	15	1,400	250	.....	3,340	.....	4,676	.....	32,820	.....	2¼ miles new road completed.
Atlin, Telegraph Creek	30.12	.....	20,860	6	2,970	1,268	1,010	76	.....	94	1,760	7	57	
Cariboo, Northern	384.25	108.81	1,040	6	14,793	13,516	9,028	59,264	.....	11,188	9,341	.....	140	
			78,200	6 to 12										
			1,313	12 to 18										
Cariboo, Central	277.36	40.71	36,498	6 to 12	35,637	2,272	3,666	23,180	1,220	25,893	.....	83,403	88	
			54,035	18 to 24										
			6,656	42 to 48										
Cariboo, Southern	70.27	20.09	19,143	6 to 12	18,678	552	2,075	45,495	6,637	17,444	16,498	12,377	66	
			4,700	12 to 18										
			10,951	18 to 24										
			14,320	24 to 30										
Chilliwack	87.11	42.55	1,320	6	34,560	5,631	23,779	32,927	100	19,766	12,641	129,032	125	Slashed 13.79 acres; built 300 lineal feet fencing; 1,232 square yards sidewalk; laid 600 square yards cinders.
			33,000	6 to 12										
			25,750	12 to 18										
			18,180	18 to 24										
			30,540	24 to 30										
			4,000	30 to 36										
			1,726	36 to 42										
			700	54 to 60										
			800	60 to 66										
Columbia	96.19	16.41	6,606	6	64,455	.....	6,322	28,717	.....	119,982	41,317	66,649	62	
			44,110	6 to 12										
			9,034	12 to 18										
			35,505	18 to 24										
Comox	96.82	29.58	150	6	127,173	3,576	385	22,291	3,571	38,429	2,563	173,422	163	Built two powder-houses.
			40,222	6 to 12										
			39,568	12 to 18										
			44,152	18 to 24										
			21,000	24 to 30										

WORK DONE ON STREETS, ROADS, AND TRAILS.—*Continued.*

District.	Cleared.	Grubbed.	Graded.		Ditched.	Corduro'd	Cribbed.	Excavat'd Earth.	Excavat'd Rock.	Filled in.	Stoned.	Deposited Gravel.	Built Culverts.	Remarks.
	Acres.	Acres.	Length. Feet.	Width. Feet.	Length. Feet.	Supl. Yds.	Supl. Ft.	Cubic Yds.	Cubic Yds.	Cubic Yds.	Supl. Yds.	Supl. Yds.	Number.	
Cowichan	14.75	10.89	300	6	13,660	641	9,[illegible]1[illegible]	24,898	101	17,922	.....	50,994	86	Built 8,000 cubic feet rock walling; 1,275 feet sidewalk; 1,000 lineal feet handrail.
			14,455	6 to 12										
			20,568	12 to 18										
			8,435	18 to 24										
Cranbrook	126.93	76.53	10,400	6 to 12	37,700	534	12,260	16,244	15,938	12,287	936	104,232	88	
			134,337	12 to 18										
			50,556	18 to 24										
			1,500	24 to 30										
Delta	133.47	59.33	700	6 to 12	35,338	4,546	800	11,367	.....	31,824	11,107	36,524	41	Made camp and prepared for rock-bunkers at Cloverdale
			4,110	12 to 18										
			198	18 to 24										
			16,907	24 to 30										
			1,330	30 to 36										
			24,150	36 to 42										
			542	60										
Dewdney (Asylum Colony Farm)	.....	.....	.....	.....	.....	205	400	.....	.....	2,094	3,984	7,773	3	Constructed rough road, 1,516 feet long, 9 feet wide, for hauling rock to rock-crusher; gathered 1,400 cubic yards rock and boulders off farm, hauled and crushed same.
Dewdney	77.57	32.64	3,392	6	76,684	.....	10,532	55,240	646	61,812	630	86,211	156	Built 5,414 square yards sidewalk; 1,695 lineal feet handrail; 5,120 lineal feet fencing; 996 square yards mattress-work; 21 cubic yards riprap; one foot-bridge 45 feet long.
			9,450	6 to 12										
			17,702	12 to 18										
			43,710	18 to 24										
			38,574	24 to 30										
			2,100	36 to 42										
			552	54 to 60										
Esquimalt	33.57	20.67	4,858	6	104,849	52	6,591	9,943	4,925	18,414	77,798	137,004	125	Built 12,814 square yards sidewalk.
			23,246	6 to 12										
			29,315	12 to 18										
			12,815	18 to 24										
			8,877	24 to 30										
			1,775	48 to 54										
Fernie	172.47	64.26	68,640	6 to 12	8,000	800	.....	.....	.....	.....	.....	.....	17	Built 3,676 square yards sidewalk and 136 square yards plank road.
			750	12 to 18										
			91,560	18 to 24										
			1,000	66										
Grand Forks	78.05	23.28	70,000	6	54,466	.....	13,749	51,559	4,656	39,973	11,476	9,681	46	
			81,040	6 to 12										
			15,950	12 to 18										
			69,840	18 to 24										
Greenwood	23.73	11.84	14,200	6 to 12	16,365	.....	6,252	77,338	6,177	24,129	9,578	40,668	93	
			25,081	12 to 18										
			2,160	24 to 30										
Islands	8.35	8.54	10,470	6	24,208	360	2,320	1,333	974	2,639	1,736	51,055	54	Built 22 cubic yards rock walling and 1,300 lineal feet fencing.
			66,111	6 to 12										
			29,009	12 to 18										
			1,494	18 to 24										
Kamloops	356.98	106.60	3,960	6	12,935	4,067	27,682	561,236	20,802	49,051	6,667	73,147	136	Built 1,860 square yards

			38,984 281,223	6 to 12 12 to 18									mattress on Eagle River; 2,794 cubic yards dyke on Eagle River; cleared new channel for Eagle River near Malakwa, 423 cubic yards excavation; built tool-shed at Salmon Arm; three row-boats, 16 x 3½ x 2 feet; one scow, 32 x 10 x 2 feet; 2,682 lineal feet wire fencing.
Kaslo	86.72	36.13	121,292 58,005 4,030 2,000	6 6 to 12 12 to 18 18 to 24	3,554	11,439	5,675	.....	.....	662	.....	33,561	32	Built 1,277 square yards sidewalk; cleared out Crawford Creek for about one mile; cleared out Lardeau River at Trout Lake City; repaired 260 miles of trail.
Lillooet, East	65.92	5.56	26,400 144,091 68,600 23,880	6 6 to 12 12 to 18 18 to 24	26,144	570	346,954	43,194	688	6,728	140,912	16,801	46	Built 670 square yards board fencing.
Lillooet, West	.....	.....	.....	.....	.....	.....	3,570	85,118	14,497	.....	.....	8,397	1	
Nanaimo City	34.93	3.08	19,501 17,638 8,022 1,550	6 6 to 12 12 to 18 18 to 24	54,076	.....	5,674	2,768	304	5,733	2,947	51,059	14	
Newcastle	36.49	25.55	19,774 15,730 19,993 12,424 6,158	6 6 to 12 12 to 18 18 to 24 24 to 30	73,320	154	7,236	9,119	223	6,942	5,204	52,805	72	
Okanagan	191.00	104.00	300 407,380 258,800 79,470 11,200 3,900 950 54,020 9,700	6 6 to 12 12 to 18 18 to 24 24 to 30 30 to 36 36 to 42 42 to 48 48 to 54	14,528	4,305	6,317	100,084	43,395	64,923	142,735	75,569	180	
Revelstoke	62.03	42.09	35,805 31,990 24,870 28,010 1,000	6 12 to 18 18 to 24 24 to 30 36 to 42	8,537	4,953	4,915	43,516	5,429	32,222	.....	32,673	49	Built 1,342 square yards sidewalk; powder-house; 2,900 lineal feet handrail; 2,200 lineal feet wire fencing; seventeen small bridges; laid 300 lineal feet sewer-pipe.
Richmond	189.40	73.40	500 124,287 26,450 19,964 18,540	6 to 12 12 to 18 18 to 24 24 to 30 30 to 36	142,757	4,278	5,826	82,222	1,362	73,079	10,560	74,019	85	Built 88 cubic yards riprap; 1,059 square yards sidewalk; laid 32,429 square yards macadam; oiled 24,948 square yards roadway
Similkameen	168.00	62.00	51,740 81,984 132,490 49,654 4,270 8,300	6 6 to 12 12 to 18 18 to 24 24 to 30 36 to 42	58,900	100	27,219	122,893	27,954	115,443	86,978	82,335	112	Constructed 46½ miles new trail; cleared and repaired 198 miles old trail; built 1,536 square yards sidewalk; 160 feet railing.

WORK DONE ON STREETS, ROADS, AND TRAILS.—*Concluded.*

District.	Cleared.	Grubbed.	Graded.		Ditched.	Corduro'd	Cribbed.	Excavat'd Earth.	Excavat'd Rock.	Filled in.	Stoned.	Deposited Gravel.	Built Culverts.	Remarks.
	Acres.	Acres.	Length. Feet.	Width. Feet.	Length. Feet.	Supl. Yds.	Supl. Ft.	Cubic Yds.	Cubic Yds.	Cubic Yds.	Supl. Yds.	Supl. Yds.	Number.	
Skeena, Bella Coola	5.61	11.97	3,640 34,060	6 to 12 12 to 18	9,500	412	.....	5,194	80	225	5,333	8,563		
Skeena, Coast	144.11	81.42	40,250 273,565 9,240	6 6 to 12 16	24,012	9,651	2,600	15,513	13,063	480	26,256	15,247	115	
Skeena, Interior	327.31	68.67	51,656 164,497 111,134 15,564 110	6 6 to 12 12 to 18 18 to 24 30 to 36	80,697	6,041	330	67,524	9,192	32,440	.....	288	257	Cleared 585 lineal feet bottom of creek; cut and laid poles at 10-foot centres across ditch for distance of about one-quarter mile; moved telegraph poles; built thirty-nine log bridges; cut ten miles trail.
Slocan	130.02	55.84	95,590 27,022 27,667 1,200	6 to 12 12 to 18 18 to 24 24 to 30	49,743	6,344	21,319	24,543	2,659	19,904	617	14,594	167	
Yale	106.86	21.25	384,861 10,800	6 to 12 12 to 18	4,900	188	12,596	11,560	13,187	7,394	226	74,976	112	
Ymir	248.49	97.78	25,498 161,932 20,910 19,800 34,400 6,650	6 6 to 12 12 to 18 18 to 24 24 to 30 36 to 42	16,379	8,649	76,676	158,911	12,783	35,147	118,895	56,319	192	Built 4,387 square yards sidewalk.

BRIDGES THROUGHOUT THE PROVINCE.

Apart from small bridges built by the Road Superintendents and referred to in their reports in the various districts, the following bridges were designed in the Bridge Engineering Department, and described as follows:—

Cariboo District.

Repairs were made in the Chilcotin (Sheep Creek) suspension bridge, the wooden towers being replaced by steel towers.

Columbia District.

A 95-foot swing-span, with a 63-foot King truss adjoining, and some pile-bent approach at either end, was built over the Columbia River at Spillimachene, leaving a clear waterway of 45-feet between the pivot pier and piers 2 and 4 for the passage of boats.

Plans for a 120-foot Howe-truss span, 16 feet 7 inches between trusses, were designed and erected over Horse Thief Creek.

Fernie District.

Renewals were made in this bridge and a 63-foot King truss built on to the 140-foot truss; this was necessitated by a change in channel, causing a deep scour by which three bays of pile approach were washed out.

Grand Forks District.

A new bridge was built over the Kettle River in the City of Grand Forks, along the centre line of First Street produced. It is made up of two spans, one of 165 feet, and adjoining that a King truss 63 feet over all, and some pile-bent approach at either end. The piles for the piers were driven through a brush mattress 18 inches thick, and surrounded by a crib pier, extending well above extreme high water. From the shore piers, pile and timber wings were built, extending well back into the banks. The piers of the old bridge were removed.

Greenwood District.

The most important bridge built in this district was that over the Kettle River near Nicholson Creek; one through span of 164 feet over all and 16 feet wide between trusses. The piers are built of piling, ten piles to each pier, well sway-braced, and surrounded by flatted log cribs, extending from below the ground-line to 2 feet above the line of ordinary high water. Three bays of pile-bents, spaced at 20-foot centres, completes this bridge, which is close to the line of the Kettle Valley Railway.

Kamloops District.

A Howe-truss span, 16 feet between trusses and 103 feet long, was built over the Eagle River at Bowie, the span being approached by some pile-bents on either side.

The most important bridge in this district, and known as the "Red Bridge," was that built over the South Thompson River. Commencing at the Kamloops side, the bridge is approached by eighteen bays of trestle-bents built on a 5-per-cent. grade; then come two deck-spans of 125 feet each, then one through truss of 125 feet; then twelve bays of trestle-bent approach built on a 5-per-cent. grade.

From approximate low-water line to the top of the floor, the height is about 55 feet. The reason for this height was in order to give a clear headroom of 38 feet from ordinary high water to the under side of the chords of the through span for the passage of steamboats.

Pier 1 is of piling; piers 2, 3, 4 and 5 consist of piles driven and cut off 1 foot above low water, with a timber grillage on top; the piers built on top of squared timber, braced and trussed throughout, and sheathed with 4-inch plank.

OKANAGAN DISTRICT.

A new bridge was built over the Shuswap River on the Trinity Valley Road, comprising one span of 123 feet long, and adjoining this a 63-foot King truss.

A bridge was built over Perry Creek, the main channel being spanned by a 40-foot King truss; the under side of the chords are about 86 feet above water-line. This necessitated very high trestle-bents on both sides of the truss, divided into three and four decks each. The batter of the outside posts was 3 in 1.

REVELSTOKE DISTRICT.

The "Upper Bridge" over the Illecillewaet River was renewed, the old span being replaced by a Howe-truss span of 164 feet long over all.

SIMILKAMEEN DISTRICT.

A bridge was built over the Tulameen River near Granite Creek, made up as follows: Commencing at the left bank of the river are three bays of trestle-bents, built on a level grade, the centre bent spanning the Kettle Valley Railroad track and allowing a clear head-room of 24 feet. Adjoining these bents is a deck-span of 125 feet in length. From thence down to the right bank are double-deck trestle-bents built on a 5-per-cent. grade. The piers for the deck-span rest on bench walls of concrete carried up well above high water. Sills, posts, and caps of squared timbers well braced complete the piers.

SKEENA DISTRICT.

A bridge was built over the Bella Coola River at Canoe Crossing, made up of two spans of 123 feet each, and five bays of pile-bent approach. The width of roadway is 15 feet.

SLOCAN DISTRICT.

A Howe-truss span of 123 feet was built over Wilson Creek at Rosebery. Roadway 15 feet 3 inches in width.

A 63-foot King-truss was built over Tate Creek at Applegrove. This bridge is 14 feet 8 inches between wheel-guards.

Two spans of 123 feet each, adjoining, were built over the Slocan River at Slocan City.

The bridge over the Slocan River near "Perry's Siding" comprises three spans of 123 feet each, one span of 63 feet, and some pile-bent approach at either end. The under-side of the chords are 8 feet above flood-level of 1894, which allows of ample headroom for the passage of drift timber, logs, etc.

YALE DISTRICT.

A new bridge of a Howe-truss type, 145 feet over all, was erected over the Coquihalla River. Spans of 103 feet each were built, one over the Nichola River at Canford, one at Chapman, and one at Cleasby.

In addition to the foregoing, the following is a description of bridges designed and built under the supervision of the Public Works Engineer, viz.:—

YALE DISTRICT.

Bridge over the Thompson River at Walhachin.

A steel structure consisting of two through How-truss spans, each 200 feet, with concrete abutments and double cylindrical pier in centre. Width between wheel-guards, 14 feet 8 inches.

This bridge was designed by Messrs. Waddell & Harrington, consulting engineers, and the contractors were The Algoma Steel Bridge Co., Ltd.

Work was commenced in February, 1911, and completed in February, 1912. The cost of the work up to March 31st, 1912, was $40,350.48.

YMIR DISTRICT.

Bridge over the Columbia River at Trail.

A steel structure consisting of four through Howe-truss spans, each about 170 feet, with concrete abutments and three double cylindrical piers. Width between wheel-guards, 18 feet.

This bridge is so arranged that any future date (should navigation require it) a lift-span can be put in in place of one of the fixed spans.

The bridge was designed by Messrs. Waddell & Harrington, consulting engineers. The contractors for the steel superstructure were the Cleveland Bridge & Engineering Co. The substructure and erection of the superstructure were carried out by Messrs. Armstrong, Morrison & Co.

Work was commenced in October, 1911, and completed in May, 1912. The cost of the work up to March 31st, 1912, was $128,649.17.

WORKS AND BUILDINGS.

Court-house, Fernie. (Vote 81—$6,000.)

Expenditure, $4,986.01, on contractor's progress estimates, work on grounds, repairs, painting, etc.

Court-house, Grand Forks. (Vote 81—$30,000.)

Expenditure, $44,427.64, on plans and specifications, progress estimates, clerk of works, extras etc

Court-house, Kaslo. (Vote 81—$15,000.)

Expenditure, $23,137.14, on preparing plans, progress estimates, clerk of works, etc.

Court-house, New Westminster. (Vote 81—$11,000.)

Expenditure, $12,027, on preparing plans, progress estimates, clerk of works, etc.

Court-house, Revelstoke. (Vote 81—$75,000.)

Expenditure, $46,811.81, on architect's fees, progress estimates, clerk of works, etc.

Court-house, Rossland. (Vote 81—$10,000.)

Expenditure, $7,056.43, on alterations to house, progress estimates on buildings and grounds, clerk of works, etc.

Court-house, Vancouver (Completion). (Vote 81—$125,000.)

Expenditure, $263,824.57, on progress estimates, supervising architect's fees, clerk of works, painting, furniture, fittings, etc.

Court-house, Vancouver (New Wing). (Vote 81—$100,000.)

Expenditure, $63,766.90, on progress estimates, clerk of works, etc.

Court-house, Vernon. (Vote 81—$75,000.)

Expenditure, $19,211.60, on architect's fees, progress estimates, etc.

Furniture for Government Offices. (Vote 81—$25,000.)

Expenditure, $26,220.88, on various items of furniture for all the Government offices throughout the Province.

Gaols and Lock-ups throughout the Province. (Vote 81—$50,000.)

Expenditure, $70,668.52, on various repairs, alterations, etc., to the lock-ups and gaols at the following places : Alert Bay, Aldermere, Ashcroft, Atlin, Clinton, Cranbrook, Cumberland, Esquimalt, Field, Fort George, Golden, Grand Forks, Greenwood, Hazelton, Hope, Jedway, Kamloops, Keremeos, Kitsalas, Krag, Lillooet, Lytton, Marysville, Merritt, Midway, Nass, Nakusp, Nanaimo, New Denver, New Westminster, 150-Mile House, Prince Rupert, Princeton, Quathiaski Cove, Revelstoke, Savona, Seventeen-mile, Sicamous, Three Forks, Twenty-nine-mile, Vancouver, Vernon, Victoria, Wardner, Yale, Ymir.

HOSPITAL FOR INSANE, COQUITLAM (COMPLETION). (Vote 81—$300,000.)

Expenditure, $300,016.50, on professional services, progress estimates, paving, clerk of works, etc.

HOSPITAL FOR INSANE, COQUITLAM (FARM, ETC.). (Vote 81—$40,000.)

Expenditure, $38,908.53, on progress estimates on buildings, paving, water-mains, pumping machinery, etc.

HOSPITAL FOR INSANE, COQUITLAM (GROUNDS). (Vote 81—$15,000.)

Expenditure, $17,430.91, on plans and work on grounds, work on new road, hardware supplies, etc.

IMPROVEMENT OF GOVERNMENT GROUNDS, VICTORIA. (Vote 81—$25,000.)

Expenditure, $12,373.43, on gardeners' pay-lists, city taxes, supplies, etc.

IMPROVEMENT OF GOVERNMENT RESERVES THROUGHOUT THE PROVINCE. (Vote 81—$7,000.)

Expenditure, $6,226.26, on grounds surrounding various Government offices, labour, supplies, taxes, etc.

PARLIAMENT BUILDINGS (NEW ADDITION). (Vote 81—$150,000.)

Expenditure, $129,977.72, on plans, excavating, progress estimates, steel and rivet inspectors, clerk of works, etc.

PRISON FARMS AND BUILDINGS. (Vote 81—$50,000.)

Expenditure, $63,854.65, on drawings and specifications, right-of-way, progress estimates, clerk of works, etc.

PROTECTION OF RIVER-BANKS.

A detailed statement showing amount spent in each district is to be found on a separate sheet.

PROVINCIAL HOME, KAMLOOPS (NEW WING). (Vote 81—$25,000.)

Expenditure, $23,775.63, on blue-prints, architect's fees, progress estimates, etc.

PROVINCIAL NORMAL SCHOOL, VANCOUVER (MAINTENANCE AND REPAIRS). (VOTE 81—$7,500.)

Expenditure, $7,818.85, on architect's fees, alterations, progress estimates, gymnasium, work on grounds, general repairs, furniture, fixtures, etc.

PROVINCIAL UNIVERSITY (CLEARING SITE). (Vote 81—$25,000.)

Expenditure, $11,444.61, on clearing, inspector, etc.

PUBLIC SCHOOLS THROUGHOUT THE PROVINCE (CONSTRUCTION, REPAIRS, FURNITURE.) (Vote 81—$350,000.)

Expenditure, $353,127.97, on the following: Small one-room building—Happy Valley, Long Lake, Nob Hill, Otter Point, Oyama; large one-room building—Carson, Columbia Gardens, Courtenay, Dewdney, Denman Island, Edith Lake, French Creek, Gleneden, Headquarters, Hope, New Michel, Spence's Bridge, South Wellington, Wardner, West Salmon Arm; two-room building—Abbotsford, Craigflower, Ellison, Fort Langley, Hammond, Kaleden, North Cowichan, Stewart; four-room building—Cloverdale, Lynn Valley, Merritt; alterations—Lower Extension; special—Masset; Vancouver Normal School, gymnasium.

Government grants were made to the municipal and other School Boards of Agassiz, Alexandria, Barriere River, Burnaby, Bella Coola, Bench, Creston, Cranberry Marsh, Delta, Five-mile Creek, Fairview, Goldstream, Gill, Hume, Kerrisdale, Lillooet, Maple Ridge, Masset, Matsqui, Mountain, Nelson, North Nanaimo, North Shuswap, Oyster, Phoenix, Point Grey, Revelstoke, Rossland, R. I. of A. & L., South Vancouver, Summerland, Surrey, Trail, Trout Lake, Vananda, Wellington.

Repairs to Buildings, Furniture, Fuel, Light, etc., Government House, Victoria. (Vote 81—$5,720.)

Expenditure, $10,520.11, on new building, grounds, fuel, light, water, upkeep of garden, etc.

Repairs to Government Buildings throughout the Province. (Vote 81—$20,000.)

Expenditure, $24,526.03, on the following offices: Alberni, Ashcroft, Atlin, Barkerville, Chilliwack, Clinton, Cranbrook, Cumberland, Duncan, Fairview, Fernie, Fort Steele, Fort St. John, Golden, Grand Forks, Greenwood, Hazleton, Jedway, Kamloops, Lillooet, Nanaimo, Nakusp, Nelson, New Westminster, Nicola, Princeton, Prince Rupert, Revelstoke, Rossland, Stewart, Telegraph Creek, Vancouver, Vernon, Victoria, Yale.

Repairs to Parliament Buildings. (Vote 81—$10,000.)

Expenditure, $25,567.42, on building, annexes, repairs, plumbing, painting, electrician's work, telephones, etc., in all departments.

STATEMENT OF EXPENDITURE.

Roads, Streets, Bridges, and Wharves.

Fiscal year ending 31st March, 1912.

ALBERNI DISTRICT. (Vote 82.)

Road —	Auld's	$ 89 25
"	Beaver Creek	1,779 70
"	Beaver Creek Wharf	1,046 24
"	Best's	75 50
"	Biggs and Crossan's	71 00
"	Biological Station	106 50
"	Bland's	660 35
"	Blubber Bay	39 00
"	Brownrigg and Schooner	755 20
"	Central Lake	1,185 55
"	Combatley's	79 50
"	Compton's	131 00
"	Cowley's	989 75
"	Cherry Creek	427 05
"	Church and Errington	441 27
"	Clark and Robson	94 00
"	Claudet	41 50
"	Clayoquot	1,942 97
"	Creamery	5 30
"	Departure Bay	70 00
"	Dumont's	85 50
"	Faber's	67 00
"	Fleming's	180 00
"	Gillis Bay	45 10
"	Grand View	425 00
"	Hamilton	221 75
"	Harrison's	327 35
"	Hector's	72 20
"	Hicklin's	130 00
"	Hillier's	341 30
"	Iron Mine, Texada Island	131 50
"	James	119 50
"	Jones-French Creek	1,422 55
"	Jones-Qualicum Beach	75 30
"	Kitsutkis Creamery	615 45
"	Kitsutkis Valley	100 75
"	Lowery and Craig	102 50
"	Lasqueti Island	825 20
"	Lake Shore	250 10
"	Lateltin	661 50
"	Latham	1,170 94
"	Lawler's Trunk	111 45
"	Mill Town	309 00
	Carried forward	$ 17,821 57

Brought forward		$ 17,821 57

Alberni District. (Vote 82.)—*Concluded.*

Road —	Moore's	87 00
"	Morello's	55 10
"	Morrison's	310 38
"	McElroy's, Texada Island	310 00
"	Nanaimo-Alberni	12,121 44
"	Parksville Cross	336 59
"	Peninsula	343 00
"	Peterson's	157 20
"	Quatsino Wagon	2,939 00
"	Roberts	10 90
"	San Josef Valley	5,035 91
"	Sundry, Vananda	61 00
"	Scotch Settlement	135 55
"	School	178 00
"	Scott and Hazard's	281 84
"	Sproat Lake	2,307 30
"	Staff	98 50
"	Swain and Fisher's	19 25
"	Taylor's	503 70
"	Temple and Reed	78 65
"	Texada Central	6,603 72
"	Townsite	1,721 70
"	Turner and Rutherford	98 00
"	Thurnburn-Noots	100 35
"	Ucluelet	2,750 02
"	Victoria-Campbell River	9,691 71
"	Wellington Old Town	158 50
"	Woolsey	641 25
"	Young's Lake	162 80
Trail —	Brangaard's	484 50
"	Brink Lake	499 50
"	Friendly Cove-Settlers Trunk	285 20
"	Kaprino-Winter Harbour	99 60
"	Limestone Island	251 40
"	Main San Josef	406 00
"	Maggie Lake	428 80
"	Mud Bay-Long Beach, Lot 161	197 85
"	McLeod and Russ	90 00
"	Old Cape Scott	43 00
"	Peninsula	139 75
"	Public Hall	99 50
"	San Josef P.O.-Boat-house	367 00
"	South of Township 41	45 55
"	Taylor Arm	412 45
"	Thurnburn and G. Hilstad's Trunk	170 50
Street—	Elizabeth	25 00
"	Gertrude	329 60
"	Marquard	45 00
"	Nanaimo	30 80
"	Nanaimo and Paterson Townsite	390 00
"	Southgate	47 00
Clearing road in front of school-site		210 00
General supplies		2,364 20
Road Superintendent's office		2,720 35
Total		$ 75,365 48

ATLIN DISTRICT. (Vote 82.)

Atlin Division.

Road —	Atlin-Surprise	$3,146 80
"	Ben McChree	515 00
"	Big Horn	498 55
"	Birch Creek	491 50
"	Boulder Creek	183 50
"	Fourth of July	12 50
"	Gold Run Wagon	20 00
"	Gleanerville	175 00
"	Indian River	150 00
"	Klehini River	6,339 09
"	Lincoln Creek	20 00
"	Moose Arm-Telaka Bay	398 45
"	McKee Creek	170 00
"	O'Donnell River	954 50
"	Otter Creek	113 50
"	Pavey Station	300 00
"	Ruby Creek	427 50
"	Spruce Creek	389 50
"	Taku Arm	500 00
"	Telegraph Creek	155 73
"	Wilson Creek	10 00
"	Wood	25 00
"	Wright Creek	576 00
Trail —	Fantail	75 00
"	Wann River	150 00
"	White Horse	30 75
Street—	Atlin	554 75
"	Discovery	30 00
Sidewalks—	Atlin	10 00
Bridge—	Ditch	64 60
"	Gold Run	67 50
"	Stephen Dyke	188 00
General supplies		2,539 41
Road Superintendence		1,680 52

Telegraph Creek Division.

Road —	Glenora	77 50
"	McDame Creek	220 00
Trail —	Berry Creek	190 75
"	Dease Lake	1,535 37
"	Klappan	283 00
"	Teslin	1,047 59
Streets—	Telegraph Creek	263 80
Ferry—	Telegraph Creek	215 00
Survey—	Iskoot River Road	1,148 95
General supplies		720 83
	Total	$26,665 44

CARIBOO DISTRICT. (Vote 82.)

Southern Division.

Road —	Alexandria-Beaver Lake	$ 495 00
"	Chilcotin Main	3,777 65
"	Harper's Camp-Beaver Lake	443 00
	Carried forward	$ 4,715 65

Brought forward	$ 4,715 65

Cariboo District. (Vote 82.)—*Continued.*

Road—Keithley-Barkerville	91 00
" Main Trunk	17,087 01
" Meldrum Creek	40 00
" Moorhead-Seven-mile Creek	14 62
" Quesnel Forks	120 00
" Quesnel Forks-Lake	541 40
" 150-Mile House-Alkali Lake	2 00
" 150-Mile House-Forks	101 31
" 150-Mile House-Harper's Camp	1,642 00
" 158-Mile House-Quesnel Forks	2,711 87
" 177-Mile Post-Beaver Lake	20 95
" Soda Creek-Springfield	192 75
" St. Joseph's Mission	1,838 34
" Upper Horsefly	2,473 82
Ferry—Launching, Soda Creek	278 22
General supplies	219 45
Road superintendence	1,242 00

Central Division.

Road—Alexandria-Quesnel	1,436 88
" Antler-Cunningham	608 75
" Antler-McKenna	618 90
" Baker's	484 55
" Barkerville-Cottonwood	219 00
" Barkerville-Fraser River	6,646 28
" Barkerville-Van Winkle	974 95
" Deacon's	10 50
" Dibbs-Cottonwood Canyon	2,024 50
" Donovan	500 00
" Dragon	462 80
" Gold Run	72 00
" Jack of Clubs	195 50
" Kersley-Dales	133 00
" Lowhee-Jack of Clubs	2,217 75
" Main Trunk	20,081 89
" Peters Creek	201 50
" Quesnel-Dubois	6,663 18
" Quesnel-Nazco	983 20
" Stewart Creek	356 83
" Willow River-Sugar Creek	1,000 00
" Yetland Ranch	108 00
Trail—Cottonwood-Dubois	477 00
" Cottonwood-Willow River	541 30
" Stony Lake	225 00
" Sawmill Flat	52 50
" Goat River	550 17
Street—Quesnel	4,075 15
Bridge—Quesnel River	82 20
Ferry—Quesnel	595 01
Stable—Quesnel	715 93
Bulkhead—Barkerville (repairs)	2,061 84
Crib — Quesnel (crib-work)	524 12
General supplies	72 00
Road superintendence	1,861 00
Carried forward	$ 57,833 18

Brought forward	$ 57,833 18

CARIBOO DISTRICT. (Vote 82.)—*Concluded.*

Northern Division.

Road—Cluculz Lake	3,640 11
" Fort George-Blackwater	4,999 11
" Fort George-Chief Lake	3,137 82
" Fort George-Giscombe	4,869 62
" Fort George-Pinker	2,797 48
" Fort George-Stony-Creek	20,692 84
" Fort George-Nechaco River	20 90
" Iskinkut-Stewart Lake	4,894 01
" Milne's Landing, East	2,097 80
" Milne's Landing, West	2,488 02
" Quesnel-Fraser Lake	14,799 58
Trail—Stewart-Fraser Lake	488 48
" Stewart-McLeod	997 46
General supplies	110 80
Road superintendence	2,148 59
District generally (horse-feed)	3,415 88
Total	$162,764 07

CHILLIWACK DISTRICT. (Vote 82.)

Road—Abbotsford-East Yale	$ 1,659 15
" Abbotsford-West Yale	2,012 55
" Abbotsford-Huntingdon	3,100 43
" Aberdeen	849 30
" Bench	1,786 00
" Bond	445 40
" Columbia Valley-Coulter's	1,461 50
" Clayburn	515 90
" Dennison	225 65
" Delsie	1,654 58
" Glenmore	2,555 50
" Gwynn	278 25
" Lefeavre	944 90
" Marsh	899 05
" Mount Baker	4,040 20
" Mount Lehman Trunk	479 75
" Parsons	200 95
" Peardonville	1,067 85
" Promontory	494 10
" Riverside	1,644 25
" Ross	1,304 30
" Sumas Mountain	3,576 55
" Vedder Mountain	522 66
" Vye	3,383 35
" Wade's Landing	764 60
" White's	499 55
" Yale, Vedder, and Prairie	5,644 70
" Yale, Vedder, and Vye	1,416 25
" Yale, Chilliwack, and Rosedale	9,221 70
" Yale, Chilliwack, and Vedder	2,406 80
Street—Huntingdon C	2,879 80
Carried forward	$ 57,935 52

Brought forward	$ 57,935 52

Chilliwack District. (Vote 82.)—*Concluded.*

Townsite—Huntingdon C	1,542 98
" Abbotsford	2,065 52
General supplies	158 25
Road superintendence	3,188 28
Total	$64,890 55

Columbia District. (Vote 82.)

Road—Abel-Windermere	$ 718 23
" Athalmer grade	1,830 76
" Canal flat grade	38 00
" Dutch Creek (Thorold)	555 00
" Fairmount Diversion	830 60
" Findlay Creek	18 00
" Foster's-Foster's Landing	10 00
" Hardie's Flats-Thunder Hill	3,975 25
" Horse Thief Creek	1,717 87
" Horse Thief Creek grade	2,081 33
" Main, Donald-Mud Creek	26,601 54
" Paradise	126 50
" Spillimachene	60 00
" Trunk, Spillimachene West	13,344 70
" Thompson's Landing (completion)	545 70
" Tegart's	528 55
" Toby Creek	2,831 95
" Toby Creek, North Fork	732 85
" Wells Landing-Carbonate	1,497 80
Trail—Boulder-Law Creek	157 00
" Bugaboo-Creek	498 00
" Canoe River	1,008 75
" Carbonate-Prairie Mountain	128 75
" Horse Thief Creek	304 40
" Kootenay River-Banff	434 50
" Salmon River	21 00
" Warren Creek	72 00
Athalmer and vicinity	505 55
Athalmer, sidewalks	1,342 55
Field, sidewalks	117 85
Golden, roads and streets and vicinity	4,761 00
Roger's Pass, streets, and sidewalks	526 31
Wilmer and vicinity	867 85
Windermere and vicinity	353 25
General supplies	101 00
Road superintendence	3,780 35
Total	$ 73,024 74

Comox District. (Vote 82.)

Road—Anderton, No. 2	$ 1,711 69
" Anderton, No. 3, to Lot 216	504 86
" Bach, No. 4	404 37
Carried forward	$ 2,620 91

	Brought forward	$ 2,620 91

COMOX DISTRICT. (Vote 82.)—*Concluded.*

Road —	Burns-Parkins	420 24
"	Cache Creek-Shusartis, No. 50	4,970 34
"	Cache Creek West to Settlers	501 25
"	Comox-John Hardy, No. 10	413 49
"	Cortes	1,206 39
"	Cumberland-Courtenay, No. 6	1,899 98
"	Cumberland-No. 7 Mine	411 75
"	Cumberland-Roy, No. 7	2,815 46
"	Cumberland-Comox Lake, No. 8	429 37
"	Cumberland-Comox Road, No. 9	3,282 86
"	Creech, No. 13	3,435 09
"	Cross-Smith's, No. 15	627 00
"	Cross-Bridges, No. 16	504 23
"	Cross-Hodgson	272 74
"	Cross-Grieves-Rennison, No. 18	344 25
"	Cressford, No. 19	199 23
"	Denman Island	1,252 55
"	Fraser-Harrigan, No. 22	911 23
"	Halcrow-Sackville, No. 28	457 25
"	Hardy Bay-Coal Harbour	3,931 95
"	Hardy, Thos., No. 27	98 12
"	Hawkins and McClusky, No. 25	58 50
"	Higgins and Knight, No. 24	709 86
"	Hornby Island, No. 64	1,474 30
"	Husband's, No. 26	227 24
"	Kelland, No. 29	35 75
"	Kirby, No. 30	241 25
"	Lawrence-Briscoe	39 50
"	Little River, No. 34	722 30
"	Lund, No. 67	605 72
"	Marsden and Kilpatrick, No. 36	94 87
"	Milligan and Parkins, No. 40	374 72
"	Minto School	53 00
"	Muir and Hawkins	205 00
"	McDonald, John, No. 41	41 50
"	Road Island, No. 68	483 99
"	Radford, No. 46	70 75
"	Ryan and Hudson, No. 45	73 87
"	Salmon River	2,913 96
"	Sandwick to Bridges, No. 51	531 70
"	Smith and Lodington	654 15
"	Staples and Somerville	149 50
"	Sharp and Moore, No. 53	49 25
"	To Lot 117, No. 50	500 74
"	To Lot 163, No. 49	336 49
"	Torrance, No. 56	457 60
"	Valdes Island	2,065 32
"	Victoria-Campbell River, No. 70	30,527 53
Trail —	Campbell Lake	771 10
"	Hardy Bay	94 42
"	Lake, No. 32	2,193 95
General supplies		3,710 86
Road superintendence		3,515 80
	Total	$84,990 18

Cowichan District. (Vote 82.)

Road —	Bagett's	$ 25 00
"	Beach	2,080 02
"	Bench	131 23
"	Cameron-Taggert	265 43
"	Cowichan Lake	5,117 58
"	Cowichan River	512 95
"	Curvel-Jackson	326 61
"	Creswell	141 00
"	Duncan River (compensation)	65 00
"	Finlayson's	199 96
"	Fisher	198 91
"	Glenoria	101 37
"	Glenors Cross	428 11
"	Halhed	327 53
"	Hinch-Parry	347 75
"	Howie	143 95
"	Hunt	53 30
"	Indian	287 64
"	Koksilah Mines	23 25
"	Koksilah River	699 86
"	La Fortune (continuation)	627 14
"	Marshall's	62 25
"	Mill Bay	430 65
"	Mountain	158 40
"	McKennelly-Doupe	379 45
"	New Cross	889 40
"	Old Koksilah	3,334 03
"	Old Victoria Trunk	190 52
"	Pannell's	20 75
"	Phipps-May (continuation)	172 17
"	Rowe's	90 10
"	Sahtlan	1,125 95
"	Silver Mine	19 25
"	Sooke (new)	1,017 43
"	Shawnigan	1,488 33
"	Shawnigan District (compensation)	175 00
"	Shepphard's	39 00
"	Telegraph	367 50
"	Thain's	502 98
"	Vaux-Bowden	41 50
"	Victoria-Campbell River	9,133 67
"	Waters	85 75
"	Wilkinson	1,016 23
General supplies		501 35
Road superintendence		1,666 50
	Total	$ 35,011 75

Cranbrook District. (Vote 82.)

Road —	Curzon-Kingsgate	$ 2,212 39
"	Cranbrook-Kootenay Flats	122 00
"	Cranbrook-Leitches	2,619 00
"	Cranbrook-Mission	2,246 53
"	Cranbrook-Morris	3,043 00
"	Cranbrook-Moyie	379 63
	Carried forward	$ 10,622 55

Brought forward	$ 10,622 55

CRANBROOK DISTRICT. (Vote 82.)—*Concluded.*

Road—Cranbrook-Hogg's Ranch	984 50
" Cranbrook-Perry Creek	2,898 44
" Cranbrook-Steele	1,225 70
" Cranbrook-Wycliffe	8,527 73
" Fort Steele-Bull River	4,670 93
" Fort Steele-Golden	2,970 66
" Fort Steele-Shingle Creek	678 25
" Fort Steele-Steele Junction	897 50
" Fort Steele-Wild Horse	423 05
" Joseph-Prairie Creek	17 00
" Kimberley-Stemwinder	400 00
" Kimberley-Sullivan	600 00
" Kimberley-Mather's	600 00
" Main Trunk	22,435 30
" Marysville-Kimberley	3,449 60
" Marysville-St. Mary's Lake	634 00
" Mission-Mather's	399 00
" Mission-Marysville	498 00
" Mission-Wasa	1,404 00
" Moyie Old Road	611 40
" Mount Baker-Gold Creek	662 00
" St. Mary's-Whitefish	1,646 35
" Wasa-Skookumchuck	17 50
" Wasa-Tracey	1,018 00
" Wycliffe-Marysville	476 38
" Wycliffe-Cherry Creek	1,281 13
" Westbank-Boundary, North	965 28
" Wattsburg-Niggar Creek	267 76
Trail—Cranbrook-Gold Creek	256 00
" General	224 00
" Wild Horse	384 00
" White Fish	1,201 50
Street—Fort Steele	994 25
" Marysville	1,287 62
Sidewalks—Cranbrook, outside limits	586 86
" Wardner	27 25
General supplies	5,280 03
Road superintendence	3,476 91
Total	$ 85,000 43

DELTA DISTRICT. (Vote 82.)

Road—Armstrong	$ 399 60
" Bose	258 75
" Campbell River	1,745 30
" Campbell River-White Road	437 45
" Coast Meridian	1,000 73
" Griffith	655 70
" Hjorth	958 62
" Hjorth, Langley	827 35
" International Highway	34,092 76
" Jackman	10,391 54
" Jericho, Langley	585 03
Carried forward	$ 51,352 83

Brought forward	$ 51,352 83

Delta District. (Vote 82.)—*Concluded.*

Road—Kirkland	403 90
" Latimer	3,173 03
" Lee	630 88
" McLennan	370 25
" Port Kells	342 05
" River, Langley	599 05
" Ridley	1,285 99
" Town Line	560 92
" Yale Trunk	870 35
Bridge—Canoe Pass	60 00
General supplies	1,319 30
Road superintendence	2,434 00
Total	$ 63,502 55

Dewdney District. (Vote 82.)

Road—Bonson-Hammond-Fraser River	$ 246 50
" Best	12 00
" Blackstock Hill-North Lillooet	299 75
" Breckford	439 30
" Cedar Valley	541 55
" Clearihue	123 65
" Dewdney Trunk, Moody-Westminster Junction	3,169 48
" Dewdney Trunk, Brunette-Pitt River	10,119 49
" Dewdney Trunk, Hatzic-Dewdney Crossing	437 55
" Dewdney Trunk, Laity's-Webster's	3,619 98
" Dewdney Trunk, Pitt-Laity's	4,837 30
" Dewdney Trunk, Stave-Hatzic	761 45
" Dewdney, Section 9	720 80
" Dewdney Station	148 20
" Dewdney Trunk, Webster's-Stave River	18,991 50
" Ford	1,417 50
" Front, North and South Whonnock	2,396 41
" General, Hatzic Prairie	4,171 11
" Hampton	33 95
" Haney, Front	1,871 79
" Harris-Hammond School	1,229 05
" Harris-Pitt Meadows	1,625 15
" Harrison Hot Springs	1,794 65
" Harrison River-Malcolm	22 00
" Hatzic Prairie-Sylvester's	174 25
" Jackson	298 80
" Martin-Maple Ridge	56 40
" Malcolm	706 36
" Mission Ferry	1,811 65
" Mission-Stave Lake	632 05
" Mission-Hatzic Front	2,192 36
" Morris Creek	420 35
" North Brunette-Aliceville	698 65
" Nicomen Island, New-Slough Bank	1,115 30
" Nicomen Island, Cross	51 00
" North Nicomen (general)	974 70
" No. 2, Pitt Meadows	583 95
" Parks Subdivision	721 85
Carried forward	$ 69,467 78

Brought forward	$ 69,467 78

DEWDNEY DISTRICT. (VOTE 82.)—*Concluded.*

Road—Port Douglas (general)	701 85
" Sharp-McKenny	20 20
" Sharp-Hammond	566 00
" Silverdale	1,503 27
" Wilson	576 85
Trail—Gilley's-Pitt Meadows	36 75
Bridge—Weeks (repairs)	30 00
Ferry—Approach to Mission	1,200 00
" Pitt River	2,491 77
Port Moody Townsite	10,437 71
Mission City Townsite	12,757 61
Siwash Creek (change of channel)	25 00
French Colony, Millside	4,010 10
Dewdney dyking scheme	16,200 00
Filling wash-outs	51 50
Cutting road at wash-outs	13 75
General supplies	1,692 32
Road superintendence	3,217 25
Total	$124,999 71

ESQUIMALT DISTRICT. (Vote 82.)

Road—Admiral's	$ 767 35
" Albert Head	96 00
" Arden	50 00
" Atkins	114 25
" Barrows	100 00
" Belmont	191 35
" Bennett, James	100 00
" Bennett, John	25 40
" Bernard-Gregory	983 95
" Botanical	200 00
" Brewley's	117 40
" Clark's	60 00
" Colville	171 25
" Colwood	4,369 19
" Corry's	412 95
" Craigflower	5,701 41
" Dumbleton's	25 00
" Docking's	277 10
" Douglas	243 85
" Duke's	48 00
" Dunsmuir	60 50
" East Sooke	1,928 00
" Elliott's	32 00
" Esquimalt	10,465 12
" Esquimalt rock-cut	1,097 85
" Fairfield	262 00
" Fairview	121 75
" Finlayson's Arm	128 60
" Finlayson's Bridge	437 95
" Furlong's	74 25
" Fisher's	28 50
" Fitzgerald's	250 40
Carried forward	$ 28,977 37

Brought forward ..... $ 28,977 37

Esquimalt District. (Vote 82.)—*Continued.*

Road —	Goldstream	3,722 16
"	Goldstream Cross	277 10
"	Happy Valley	1,966 20
"	Helmcken	283 25
"	Jordan River	2,094 72
"	Kemp's	350 70
"	King's	44 00
"	La Bonne's	50 00
"	Lagoon	50 00
"	Lomax	50 00
"	Maple Avenue, Sooke	431 55
"	Metchosin	1,540 63
"	Metchosin Cross	473 20
"	Millington	23 00
"	Millington, Otter Point	273 40
"	Millstream	800 50
"	Millstream Lakes	100 00
"	Morris-Gillis	57 60
"	Muir	869 02
"	Munn's	399 71
"	Murry's	50 50
"	Munro	190 80
"	Nield's	25 00
"	Otter Point	2,600 30
"	Old Esquimalt	249 32
"	Pear's	25 00
"	Paradise	281 00
"	Peatt's	20 25
"	Phillips	104 60
"	Phœnix	25 50
"	Poirier's	108 00
"	Port Renfrew	155 55
"	Port Renfrew (east side)	315 24
"	Pottery	766 35
"	Rocky Point	1,471 82
"	Robinson's	22 50
"	San Juan River	441 45
"	Shawnigan Lake	1,679 77
"	Shirley	1,585 20
"	Sooke	14,131 95
"	Sooke Lake	623 70
"	Sooke Spit	8 00
"	Sooke Wharf	8 00
"	Stanley	1,986 10
"	Swanwick's	25 00
"	Sylvester's	50 00
"	Taylor	287 20
"	Thetis Lake	276 20
"	Tillicum	65 52
"	Vancouver Island Trunk	1,280 35
"	Victoria	134 00
"	Victoria View	67 55
"	Victoria-Campbell River	445 84
"	Whitty's	149 85

Carried forward ..... $ 72,491 52

Brought forward	$ 72,491 52

ESQUIMALT DISTRICT. (Vote 82.)—*Concluded.*

Road—Wilson's, East Sooke	80 75
" Young's	98 00
Street—Agnes	72 07
" Albert	209 45
" Armit	45 60
" Carey's	25 50
" Charles	191 85
" Constance	343 85
" Croft	65 00
" Fern	26 85
" Florence	39 10
" Foster	15 25
" Fraser	183 25
" Front	234 60
" Gore	150 35
" Head	325 82
" Joseph	87 82
" June	268 00
" Lampson	833 80
" Lyall	548 85
" Mount View	168 50
" Nelson	158 55
" Rithet	111 35
" Robert	796 25
" Smith	34 50
" Wellington	20 50
Sidewalks—Esquimalt	4,915 32
Trail—Bugaboo	35 25
General supplies	2,638 62
Road superintendence	2,546 75
Total	$87,762 87

FERNIE DISTRICT. (Vote 82.)

Road—Baynes Lake-Elko	$ 2,072 95
" Coal Creek	1,102 85
" Elko-Gateway	1,276 00
" Elko-Morrissey	1,707 25
" Elko-Rossville	224 41
" Elkmouth-Gateway	4,531 05
" Elkmouth-Wardner	14 50
" Fernie-Coal Creek	119 25
" Fernie-Cokato	243 25
" Fernie-Hosmer	11,181 09
" Fernie-Michelmouth	1,145 39
" Fernie-Morrissey	9,455 74
" Flathead Valley	10,706 12
" Hosmer-Cokato	506 50
" Hosmer-Olson	6,751 55
" Jaffray-Elko	647 25
" Michel-Crowsnest	1,738 15
" Michel (northwards)	3,991 11
" Michel-Olson	2,171 50
" Wardner-Elko	382 05
Carried forward	$ 59,967 96

Brought forward	$ 59,967 96

Fernie District. (Vote 82.)—*Concluded.*

Road — Wardner-Hanbury	589 95
" Wardner-Jaffray	9,219 75
" Wardner-Waldo	962 90
Trail — Bull River	75 00
Street — Hosmer	7,777 74
" Michel	227 66
" Natal	169 00
Sidewalks—Elko	1,519 92
" West Fernie	559 40
Bridge — Hosmer School-house	54 30
River— Work on Michel	615 00
" Elk Bank, Hosmer	201 21
" Tool-shed	415 20
" General supplies	7,614 05
" Road superintendence	2,198 45
Total	$ 85,167 53

Grand Forks District. (Vote 82.)

Road — Cascade-Fife	$ 135 00
" Cascade-Gladstone	2,907 50
" Cascade-Laurier	90 50
" Cascade-Paulson	339 75
" Central Camp, No. 4	1 75
" Deep Creek, No. 5	213 00
" Eholt-Phœnix	1,122 70
" Grand Forks-Carson, No. 9	5,189 65
" Grand Forks-Cascade, No. 10	11,866 60
" Grand Forks-Cascade, No. 18	661 00
" Grand Forks-Eholt, No. 11	3,429 10
" Grand Forks-Franklin, No. 12	8,451 25
" Grand Forks-Hardy Mountain, No. 13	424 00
" Grand Forks-Pass Creek, No. 14	1,644 00
" Grand Forks-Phœnix, No. 15	1,554 65
" Hartford Junction, No. 16	760 15
" Hartford Junction, No. 7 Mine	5,156 00
" Morrissey Mountain, No. 19	1,275 25
" Norway Mountain	852 15
" Phœnix-Greenwood, No. 17	1,466 95
" Sutherland Creek-Fife	1,248 00
" West Fork of North Fork	176 00
Trail — Molly Gibson	70 40
" Texas Point-Christina Lake	24 00
Street—First, Ruckle Addition	279 95
General supplies	3,414 87
Road superintendence	2,245 40
Total	$ 54,999 92

Greenwood District. (Vote 82.)

Road — Anaconda-No. 7 Mine, No. 17	$ 354 00
" Caron Branch, No. 21	1,336 25
" Eholt-Greenwood, No. 3	6,102 45
Carried forward	$ 7,792 70

Brought forward	$ 7,792 70

GREENWOOD DISTRICT. (Vote 82.)—*Concluded.*

Road—Eholt-Long Lake, No. 1	2,266 27
" Eholt-Summit, No. 2	1,097 20
" Greenwood-Copper Camp, No. 11	1,267 55
" Greenwood-Midway, No. 8	6,945 52
" Greenwood-Mother Lode, No. 12	770 00
" Greenwood-Phoenix, No. 6	1,420 15
" Greenwood-Skylark, No. 7	145 00
" Greenwood-Wellington Branch, No. 9	4,600 85
" Greenwood-White's, No. 10	3,829 80
" Kerr Creek, No. 19	812 25
" Kimberley Camp Branch, No. 5	481 80
" Long Lake Branch, No. 4	33 00
" Nicholson Creek Branch, No. 18	1,321 90
" Rock Creek-Ingram Branch, No. 14	1,739 00
" Rock Creek-Lower Myers Creek, No. 16	1,110 30
" Rock Creek-Midway, No. 13	7,946 34
" Rock Creek-Upper Kettle River, No. 22	69 00
" Rock Creek-Upper Meyers Creek, No. 15	1,669 80
" Twinn Creek, No. 20	542 50
Eholt—Streets and sidewalks	1,164 86
Midway—Streets	523 00
General supplies	513 74
Road superintendence	1,938 75
Total	$ 50,001 28

ISLANDS DISTRICT. (Vote 82.)

Gabriola.

Road—Central	$ 1,345 30
" Easthorn's	1,225 55
General supplies	196 27

North Galiano.

Road—Main	598 20

South Galiano.

Road—Main	1,222 77
General repairs	148 45
James Island	699 75

Mayne.

Road—Cape Horn	35 50
" David's	33 60
" Dean's	48 75
" Garrick	26 25
" Holton Bay	259 70
" Main	351 00
" Point Comfort	436 55
" Rowbottom	64 00
" Yellage Bay	247 40
General repairs	88 80
General supplies	148 95
Carried forward	$ 7,176 79

Brought forward	$ 7,176 79

Islands District. (Vote 82.)—*Continued.*

North Pender.

Road — Boat Harbour-Adams	296 10
" Browning Harbour	586 18
" Davidson's and Colston's	521 44
" Gimmer's	115 22
" Hamilton	61 30
" Hoosen's	35 00
" Hope Bay	65 00
" Huffman's	50 00
" McKinnen and Andrews	912 27
" Otter Bay	23 00
" Port Washington	304 00
" Roe's	32 00
General	111 10

North Pender, Western Division.

General supplies	434 35

South Pender and Saturna.

Road — Boulder	642 50
" McDowell	198 40
" Spalding's	151 00
Trail — Lyal	71 25
General supplies	31 55

North Saanich.

Road — Breed's Cross	762 30
" Central	203 15
" Downey	382 00
" East	1,335 64
" Horth Cross	152 89
" Marine Drive	223 00
" Mount Newton	1,068 70
" North	1,529 94
" Sidney Main	527 77
" West	1,420 30
Street—Fifth, Sidney	440 44
General supplies	523 65

North Salt Spring.

Road — Beddis	390 75
" Broadwell	55 00
" Canel	79 75
" Cranberry	635 00
" Divide	327 30
" Fernwood	72 50
" Langley's	25 00
" Le Page's	36 25
" Lower Ganges	999 37
" North End	353 00
" Pottinger's	135 25
" Rosmen's	30 00
Carried forward	$ 23,527 41

Brought forward	$ 23,527 41

ISLANDS DISTRICT. (Vote 82.)—*Concluded.*

North Salt Spring.—Concluded.

Road—Tripp's	150 12
" Upper Ganges	400 17
" Vesuvius	275 00
" Walker's Hook	100 75
" Walker's	105 00
General supplies	165 30

South Salt Spring.

Road—Beaver Point	856 75
" Burgoyne Bay	702 40
" Cranberry Marsh	248 00
" Duke's	33 00
" Fulford Harbour	109 70
" Garnes	230 90
" Hill and Brantford's	135 00
" Isabella Point	260 25
" Jones	47 30
" King's	20 50
" Longstaff and Bridgeman	41 00
" Monk's	41 00
" Ward's	248 00

Sidney Island.

Sidney Island	700 00

Thetis and Kuper.

Road—Grading new road	324 36
" Nixon	564 17
" Repairing Breakwater Road to Peter Hunter's	122 00
" Thetis	446 60
Wharf	87 00
General supplies	40 32
Total	$ 29,982 00

KAMLOOPS DISTRICT. (Vote 82.)

Road—Adams Lake	$ 216 25
" Barriere River	2,067 78
" Blind Bay Hill West	143 70
" Barn-Curry	142 00
" Campbell Creek	5 00
" Campbell Meadow	108 00
" Campbell Range	232 00
" Carlin's Gulch	100 50
" Carlin-Tappen	751 50
" Cherry Creek	8 50
" China Valley	1,514 43
" Craigdellachie	110 00
" Douglas Lake-Grande Prairie	433 15
" Ducks-Grande Prairie	339 15
" Duck's Range	800 12
" Eagle River	167 75
Carried forward	$ 7,139 83

Brought forward	$ 7,139 83

Kamloops District. (Vote 82.)—*Concluded.*

Road—Fish Lake	70 50
" Glenmona	1,255 50
" Goose Lake	744 50
" Grande Prairie	1,563 78
" Harper's Camp	21 00
" Hudson's Bay Gulch	232 50
" Hull-Manenteau	8 00
" Jackson's	291 50
" Jackson's-Grant's	99 00
" Kamloops-Nicola,	162 50
" Kamloops-Savona	482 75
" Kamloops-Shuswap	177 00
" Kault Hill	1,422 81
" Kault-Salmon Arm	3,890 92
" Kyte	163 50
" Lauder-Hawkins	27 00
" Leigh	130 00
" Long Lake	2,033 39
" Louis	64 05
" Malakwa	773 68
" Mammette Lake	72 00
" Martin	1,433 50
" Moberly-Tappen	214 43
" McLeod Range	506 25
" Nicola	1,743 50
" North Thompson (east side)	10,070 30
" North Thompson (west side)	13,456 19
" Notch Hill-Blind Bay	492 00
" Notch Hill-Tappen	620 75
" Notch Hill (west)	1,919 50
" Pavon Valley-Six-mile Creek	297 50
" Peterson-Bett's	204 00
" Reid	1,141 25
" Seymour	741 90
" Seymour River (east)	2,072 70
" Shuswap-Kault	3,079 20
" Shuswap-Tapping	15 00
" Silver Creek	1,596 60
" South Thompson (north side)	881 90
" Squilax	674 62
" Sullivan Valley	6 00
" Taft	2,725 65
" Tappen Station	15 00
Trail—Seymour	399 00
Bridge—Eagle River, Bowie	2,021 66
" Savona	20 00
" Silver Creek Road	34 50
" South Thompson River	1,778 50
Ferry—Duck's	104 00
" North Thompson	150 00
" Seymour Trail	10 97
Municipality of Salmon Arm	1,852 50
General supplies	16,015 19
Road superintendence	2,673 62
Total	$89,793 39

KASLO DISTRICT. (Vote 82.)

Road —	Ainsworth (South)	$ 594 75
"	Arcola	200 00
"	Beech	132 00
"	Bluebell	432 50
"	Central	320 50
"	Campbell	439 25
"	Coffee	54 00
"	Crawford Creek	827 25
"	Gardner	1,099 35
"	Hamil Creek	206 00
"	Houghton	615 50
"	Howser-Lardo	1,140 75
"	Hueston	2,453 20
"	Jackson	636 00
"	Kaslo Creek (North Fork)	821 00
"	Kaslo Creek (South Fork)	838 00
"	Kaslo (South Fork)	234 00
"	Kaslo (South)	4,005 75
"	Kaslo (North)	6,281 75
"	Lynchville	1,508 50
"	Meadow Creek	1,983 00
"	Mirror Lake	6,018 13
"	McIntyre	36 00
"	Peters	247 00
"	Pilot Bay	2,015 51
"	Poplar Creek	50 00
"	Queen's Bay	77 00
"	Queen's Bay-Balfour	8,189 24
"	Summit	402 00
"	Tange	617 00
"	Trout Lake-Ten-mile	4,722 50
"	Trout Lake-Beaton	4,357 75
"	Wadd's	432 00
Trail —	Ainsworth-Woodbury	15 00
"	American-Howser	15 00
"	Argenta-Howser	75 00
"	Argenta-Levina	30 00
"	Broken Hill	24 75
"	Cable	100 00
"	Canadian	641 00
"	Canadian Boy	81 00
"	Canyon Creek	271 00
"	Cascade Creek	50 00
"	Crawford Creek	193 00
"	Dismuth	6 00
"	Duncan River (west)	2,176 35
"	Eureda	25 00
"	Extension	668 50
"	Ferguson-Northern	6 00
"	Five-mile	48 00
"	Flint Mine	42 00
"	Fry Creek	1,574 75
"	Glue Pot	212 00
"	Great Britain	42 00
"	Hall Creek	162 00
	Carried forward	$ 58,445 53

Brought forward	$ 58,445 53

Kaslo District. (Vote 82.)—*Concluded.*

Trail — Hooker Creek	108 00
" Howser Lake (east)	794 50
" Howser-Trout Lake	51 00
" Keen's	75 00
" Lardo River	57 00
" Lardeau River (North Fork)	1,054 75
" Lardeau River (South Fork)	283 50
" Lucky Boy	148 00
" Martin	250 00
" Metropolitan	504 50
" Rapid Creek	15 00
" Tenderfoot	75 00
" Silver Glance	832 50
" Trout Lake (east)	770 40
" Spring Creek	27 50
" Sturgis	100 00
" Mica	686 50
" Wellington Mine	25 00
" Winslow	1,203 95
" Woodbury Creek	51 88
" Woodbury Creek (North Fork)	22 58
" Woodbury Creek (South Fork)	75 00
Street—Lardo	20 00
Sidewalks—Trout Lake	748 15
" Ferguson	308 91
Bridges—General	30 00
Howser Lake, East Float	595 63
Avenue—McDonald Addition, Kaslo	135 00
Lardo River (Protection)	74 70
General supplies	4,054 42
Road superintendence	1,992 00
Total	$ 75,851 32

Lillooet District. (Vote 82.)

Eastern Division.

Road — Big Bar	$ 126 00
" Bonaparte (west side)	1,701 55
" Bridge Creek-Carrim Lake	343 25
" Canoe Creek-Churn Creek	2,190 79
" Clinton-Alkali	3,791 54
" Clinton-Alkali, via Kelly Lake	1,446 54
" Dog Creek-Churn Creek	58 25
" Fifty-one-mile Creek Bridge	446 30
" Hat Creek	114 75
" Main Trunk	19,865 94
" Mound-Napoleon Bonaparte	105 00
" Mount Begbie-Crusher Camp	3,303 94
" North Bonaparte	3,470 80
" Rayson's	70 00
" Raphael-Pigeon-Meeson	839 61
" 70-Mile House-Green Lake	151 65
" Springhouse-154-Mile House	8 25
Carried forward	$ 38,034 16

Brought forward	$ 38,034 16

LILLOOET DISTRICT. (Vote 82.)—*Concluded.*

Road—Springhouse-Pigeon Road	985 62
" Springhouse-Prairie	487 52
" Upper Dog Creek	151 99
" Upper Deadman Creek	92 00
" Hat Creek, Upper	15 00
" Woods-High Bar	115 25
Ferry—Churn Creek	60 00
General supplies	3,781 77
Road superintendence	5,094 50

Western Division.

Road—Big Creek	206 00
" Blackwater	74 87
" Bridge River	18,319 65
" Cayoose Creek	35 75
" Chilcotin	3,394 04
" Churn Creek-Hanceville	2,618 82
" Eleven-mile Hill	2,420 69
" Empire Valley	350 30
" Jones-Dickens	238 50
" Lillooet-Clinton	3,337 91
" Lillooet-Lytton	2,712 11
" Lillooet-Seton Lake	739 70
" Marble Canyon	441 00
" McGillivray Creek	190 50
" North Fork	2,142 24
" Pemberton Portage	962 46
" Watson Bar	524 60
" Wycott	49 50
Trail—Anderson Lake	149 50
" Seton Lake	229 00
" Watson Bar Creek	104 30
" West side of Fraser	313 50
" South side of Bridge River	138 00
Bridge River steamboat	227 30
General supplies	953 53
Road superintendence	2,391 50
Total	$ 92,083 28

NANAIMO CITY DISTRICT. (Vote 82.)

Road—Bates-Malpas-Fiddick's	$ 369 50
" Brechin	266 80
" Departure Bay	906 15
" Fiddick's	686 05
" Fielding's	166 50
" Five-acre Lots	1,692 75
" Fren's	42 50
" Gordon and others	180 65
" Holden's	136 00
" Marshall's	82 55
" Northfield's	178 00
" Raines	555 95
" Stewart and others	33 70
Carried forward	$ 5,297 10

Brought forward	$ 5,297 10

Nanaimo City District. (Vote 82.)—*Concluded.*

Road—Sundry	1,355 45
" South Wellington	224 00
" Sundry, Newcastle Townsite Extension	593 70
" Victoria-Campbell River Road	3,194 88
Street—Nichol	456 30
General supplies	326 58
Road superintendence	1,394 65
Total	$ 12,942 66

Newcastle District. (Vote 82.)

Road—Adshead and others	$ 408 80
" Ainscough	135 05
" Baker's	63 90
" Bay-Northfield	60 75
" Bemen's	235 20
" Bick's	556 96
" Blank's	10 25
" Brentin-Doole's	132 60
" Brentin-Page's	277 20
" Carmichael's	22 00
" Carson's	166 85
" Cemetery	20 00
" Christie	217 05
" Code's	91 10
" Cross	76 20
" Davis	825 10
" Dick's	5 50
" East Wellington	333 45
" East Wellington Mill	457 35
" East Wellington-Westwood's	403 30
" Extension	792 90
" Ferguson's	69 00
" Fern-Northfield	167 75
" Fiddick's	87 25
" Five-acre Lots	514 50
" Fletcher's	91 00
" Frame	179 85
" Gilfillan's	24 75
" Haslam's	380 55
" Hemer's-Carlson	115 00
" Holden-Corson	673 90
" Holmes and others	47 90
" Lake	155 50
" Lockner's	154 57
" Main	254 25
" Meredith's	29 50
" Michael's	296 75
" Michael's-Doole's	411 90
" Mount Bonson	259 70
" Munro's	88 75
" McLean	90 00
" New-Brickyard	84 25
Carried forward	$ 9,468 13

Brought forward	$ 9,468 13

NEWCASTLE DISTRICT. (Vote 82.)—*Concluded.*

Road — Olsen's Station	776 30
" Pearson's-McGarrigle's	63 00
" Quennel's	387 25
" Richardson	45 00
" Rossville	55 25
" South Fork	956 75
" South Oyster School	38 75
" South Wellington	162 30
" South Wellington (old)	175 85
" South Wellington (new)	1,067 95
" Takalus	22 00
" Tiesus	23 00
" Third Avenue (new)	566 30
" Thomas	318 50
" Thomas-Crane's	112 55
" Thomas-Greenway's	90 00
" To Settlement	98 50
" Victoria	699 55
" Victoria-Campbell River	6,030 10
" Waterloo	429 17
" Weaver's	333 50
" Wellington	51 50
" Westwood's	78 00
" Wharf	85 20
Trail — Jubilee	430 50
" Mount Battle	584 25
" Sutton	502 00
General supplies	1,187 58
Road superintendence	1,159 40
Total	$ 25,998 13

OKANAGAN DISTRICT. (Vote 82.)

Big Horn Section.

Road — Bear Creek	$ 151 40
" Westside	1,369 05
Trail — Big Horn	5 00

Cherry Creek Section.

Road — Byers	250 00
" Reiswig	706 35
" Richland's	778 70
" Shaffer's	39 50
Road and Trail—Sugar Lake	2,040 25
Road — Vernon-Monashee	3,086 00
" Woodward's	72 00

Enderby Section.

Road — Bradbury-Nelson	65 00
" Brush-Allen	48 00
" Carlin-Orchards	821 30
" Deep Creek	533 40
" Enderby-Mable Lake	2,065 25
Carried forward	$ 12,031 20

Brought forward	$ 12,031 20

Okanagan District. (Vote 82.)—*Continued.*

Enderby Section.—Concluded.

Road—Enderby-Mara	74 50
" Enderby-Salmon Arm	1,286 50
" Enderby-Salmon River	8 00
" Enderby-Vernon	8 00
" Fortune	60 41
" Glenmary	749 50
" Grinrod's	503 30
" Gunter's	10 00
" Logan	205 00
" Mallory-Naylor	175 00
" Sicamous	607 50
" Trinity	653 00
" Truesdale	115 00

Kelowna Section.

Road—Benvoulin	112 00
" Black Mountain	2,156 60
" Central Okanagan Land Co. Subdivision	212 00
" Cloverdale Subdivision	201 50
" C.O.L. Fruit Lots	34 00
" Glenmore	6,612 50
" Hydraulic Creek	6,000 00
" K.L.O.	1,481 70
" Mission Creek	2,123 75
" Old Mission	37 50
" Sawmill Creek	105 00
" South Kelowna	1,064 00
" South Okanagan	354 25
" Vernon-Kelowna	3,479 41
Street—Continuation of Richter	1,784 31

Lumby Section.

Road—Creighton Valley	1,378 87
" Shuswap Avenue and Vernon Mountain	100 00
" Townsite	2,244 38
" Vernon-Monashee	1,839 60
" Whitevale Subdivision	3,152 50
" Woodville	57 50
Street—Vernon	255 25
Sidewalks—Lumby	245 61

Mable Lake Section.

Road—Mable Lake	826 40
" Old Upper	66 00
" Squaw Valley	756 00

Mara Section.

Road—Enderby-Mara	677 50
" Riverside	906 00
" Mud Lake	303 50
" Mara Lake	1,487 00
Carried forward	$ 56,541 54

Brought forward	$ 56,541 54

OKANAGAN DISTRICT. (Vote 82.)—*Continued.*

Municipality Trunk Roads.

Road—Goldstream	5,008 00
" Spallumcheen	9,959 15
" Salmon Arm Main Trunk	371 05

Naramata Section.

Road—Kelowna-Penticton (south)	9 00
" Kelowna-Penticton (north)	729 75
" Kelowna-Penticton (upper)	633 00
" Naramata Fruit Lots	2,277 64
" Robinson's	260 00
" Shoot Creek	478 50
Sidewalk—Naramata	603 70

Peachland Section.

Road—Glen-Robinson's	484 00
" Peachland-Princeton	156 25
" Trepanier	3 00
" Westside	6,408 26

Penticton Section.

Road—Fairview-Trunk	1,126 50
" Lake Shore	2,304 00
" Westside	3,155 10

Rainbow Section.

Road—Dry Valley	25 00
" McClure's	100 00
" McKinley's	1,406 50
" Oyama Fruit Lots	10 00
" Rainbow	465 00
" The Railroad	250 00
" Vernon-Kelowna	10,863 92
" Winfield Subdivision	645 98
" Woods Lake Subdivision	1,874 00
" Woods Lake Fruit Lots	6 36

Shuswap Section.

Roads—Finlaisson's	1,011 60

Salmon River Section.

Roads—Armstrong-Grande Prairie	490 00
" Salmon Arm-Armstrong	342 72
" Salmon River	167 30
" Vernon-Kamloops	1,170 00
" Willett's-Fowle's	169 25

Silver Creek Section.

Road—Fowler-Willett's	501 75
" Salmon River	1,057 00
Carried forward	$ 111,064 82

Brought forward	$ 111,064 82

Okanagan District. (Vote 82.)—*Continued.*

Summerland Section.

Road—Bathville	205 25
" Dean's	99 87
" Garnet Valley	1,266 73
" Meadow Valley	275 66
" Shingle Creek	711 50
" Summerland Municipality Trunk	3,534 93
" The Springs	98 00
" Trout Creek	43 50
" Trout Creek Reservoir	137 88
" Westside	4,251 50

Trinity Section.

Road—Bobbie Burns	2,716 86
" Trinity Valley	2,779 15

Vernon Section.

Road—B.X. Subdivision	222 75
" B.X. Fruit Lands	200 25
" B.X	275 00
" Commonage	253 50
" Cousins Bay	202 00
" Ellison Subdivision	211 00
" Goldstream	172 00
" Grant's	310 25
" Keddleston	333 23
" Long Lake	2,987 00
" Mission	71 50
" Mutrie	16 75
" Okanagan Landing	1,912 00
" Pleasant Valley	492 00
" Salmon River	11 00
" Hackey	171 50
" Trouson	10 00
" Vernon-Enderby	135 75
" Vernon-Kelowna (upper)	18 00
" Vernon-Kelowna	1,194 65
" Vernon-Kamloops	600 09
" Vernon-Monashee	874 00

Westbank Section.

Road—Allen's	120 00
" Gallatly	104 00
" Lake Shore	1,929 58
" Rashdale Creek	66 00
" South Bear Creek	60 00
" Westside	3,862 84
" Westbank Fruit Lots	829 30
" Westbank-Glencoe	52 80
Gratuity to H. Munro	75 00
Carried forward	$ 144,959 39

Brought forward	$ 144,959 39

OKANAGAN DISTRICT. (Vote 82.)—*Concluded.*

Whiteman Section.

Road—Beau Park	69 00
" Ewing	358 50
" Siwash Creek	27 00
" Six-mile Creek	81 00
" Westside	1,266 70
" Whiteman	207 00
General supplies	6,127 97
Road Superintendent and office	12,904 60
Total	$156,001 16

REVELSTOKE DISTRICT. (Vote 82.)

Road—Columbia (north)	$ 3,780 95
" Columbia (south)	29,768 49
" Columbia (west)	7,714 90
" Comaplix-Beater	914 30
" Comaplix-Camborn (old)	25 00
" Creely Creek	3,238 20
" Death Rapids	366 15
" Eagle Pass	2,111 60
" East's	1,047 84
" Fish River	3,648 65
" Galena Bay	2,753 05
" Hall's Landing	787 25
" Pingston Creek	760 00
" Trout Lake	4,160 10
" Waverly Mine	51 00
" West's	844 00
Trail—Beatrice	64 75
" Big Bend Main	2,863 90
" Big Showing	100 00
" Boyd Creek	126 00
" Canoe River	1,234 43
" Downie Creek	265 15
" Dunvegan Creek	25 00
" Eva Creek	24 00
" Fish River	684 40
" Goldstream	2,361 99
" Halcyon	300 05
" Isaac Creek	62 00
" Jordan River	48 00
" Keystone Creek	45 00
" Lexington Creek	104 50
" Menhinick Creek	109 50
" Mount Revelstoke	622 50
" Pool Creek	108 00
" Standard Basin	30 00
" Scott Creek	2 50
Trail—Scout Mountain	202 50
Street—Arrowhead	226 47
" Beater	155 00
Carried forward	$ 71,737 12

Brought forward	$ 71,737 12

Revelstoke District. (Vote 82.)—*Concluded.*

Street—Camborn	103 75
" Comaplix	290 75
Constructing powder-magazine	80 80
Snow service	277 35
General supplies	445 86
Road Superintendent and office	2,069 09
Total	$ 75,004 72

Richmond District. (Vote 82.)

Road—Baker	$ 346 00
" Barnet	11,684 96
" Bowen Island Trunk	5,766 51
" D.L. 172	8,150 39
" D.L. 272, N. Vancouver	12 00
" D.L. 301	300 00
" Gibson and Sechelt	14,063 63
" Grafton-Bowen Island	910 22
" Leavitt-Squamish	282 00
" Moodyville	1,198 45
" Pemberton Valley	7,250 32
" Roads in Richmond Municipality	15,000 00
" Squamish Valley	15,277 83
Trail—Pemberton	717 55
" Stamish-Squamish	109 90
Street—McGill-North Vancouver	5,007 50
Bridges—Eburne	6 95
" North Vancouver Municipality	5,000 00
" South Vancouver Municipality	20,000 00
" Burnaby Municipality	20,000 00
Ferry—Squamish River	574 50
Bank-protection, Squamish River	85 80
Approach to Squamish Wharf	37 22
Float at Roberts Creek	20 00
Parker's accident	125 00
Gasolene-boat	161 21
Road Superintendent	2,931 40
Total	$135,019 34

Saanich District. (Vote 82.)

Road—Beach	$ 2,500 00
" Cedar Hill	1,002 60
" Mount Newton	895 58
" New	700 00
" Quadra Street Hill	579 60
" Saanich and Graham's Hill	1,578 30
" Smith's	300 00
" West Saanich	486 40
" Todd and Gordon Head	838 65
Bridge—Sandhill Creek	992 00
Total	$ 9,873 13

SIMILKAMEEN DISTRICT. (Vote 82.)

Road —	Allison-Copper Mountain	$ 1,954 42
"	Armstrong Ferry	775 95
"	Apex Mountain	101 80
"	Bear Creek	578 75
"	Cedar Creek	315 50
"	China Creek-Princeton	200 93
"	Copper Mountain	1,299 41
"	Daley Avenue-Hedley Road	757 17
"	D'Arcy Mountain	506 50
"	Deer Valley	608 75
"	Dog Lake	6,947 48
"	Dominion	99 00
"	Dry Creek	1,055 94
"	Ellis Creek	30 00
"	Fairview-Keremeos	4,829 63
"	Fairview-Penticton	9,649 58
"	Fairview-Osoyoos	233 50
"	Fairview-Rock Creek	5,471 61
"	Fairview-White Lake	2,994 50
"	Five-mile-Princeton	2,690 43
"	Gold Creek	241 37
"	Granite Creek	1,646 85
"	Granite Mountain	247 25
"	Hedley-Otter Lake	5,237 55
"	Hedley-Twenty-mile	323 25
"	Jolly Jack-Fish Lake	344 30
"	Johnson Creek	190 50
"	Kaleden-Okanagan Falls	2,059 05
"	Kaleden Townsite	2,821 11
"	Kingsley, V.V. & E.	262 50
"	Keremeos Creek Crossing	99 00
"	Keremeos-Hedley	1,154 62
"	Keremeos-Junction Ranch	4,580 10
"	Keremeos Station	310 50
"	Kruger Monntain	606 75
"	Letts and Higginbotham's	317 35
"	Main Kettle River	4,075 05
"	Myers Flat-Okanagan Falls	973 10
"	McLean Creek	470 59
"	Narrow Valley	3,207 55
"	One-mile-Princeton	2,459 06
"	Oro Fino	150 00
"	Osoyoos-Sidley Mountain	2,241 00
"	Osoyoos-Similkameen	8 50
"	Penticton-Fish Lake	7,466 01
"	Princeton-Ashnola	7,876 98
"	Princeton-Stevenson's Creek	57 00
"	Princeton-Tulameen River	69 00
"	Reed Creek	48 40
"	Richter Mountain	741 76
"	Rock Mountain-Brideville Station	73 80
"	Rock Mountain	413 85
"	Rock Mountain-Myncastle	539 80
"	Rock Creek-Sidley Mountain	5,262 79
"	Sally Mine	12 00
"	Scott Avenue to Station, Hedley	1,957 54
	Carried forward	$ 99,666 88

Brought forward	$ 99,666 88

Similkameen District. (Vote 82.)—*Concluded.*

Road—Schister	99 00
" Shingle Creek	1,610 50
" Sidley Mountain	4,295 62
" Similkameen City-Burr	82 50
" South Keremeos	1,090 60
" South Penticton	2,660 15
" South Similkameen	1,194 80
" Slate Creek	947 77
" Sterling Creek	249 75
" Summers Creek	842 78
" West Fork, Kettle River	6,531 18
" Wide West	36 50
" Yellow Lake-Sheep Creek	261 00
Trail—Ashnola-Copper Mountain	250 50
" Beaver Creek	54 00
" Canyon City-Monashee	114 00
" Camp Rest-Nickle Plate	292 20
" Champion Creek	139 00
" Eagle Creek	58 50
" Eclipse Mountain	347 50
" Elliott Creek	59 50
" Granite Creek	493 00
" Hope Mountain	355 40
" Kingston	18 00
" Lucky Pair	123 50
" Penticton-Carmi	121 00
" Roche River and steamboat	1,868 90
" Sheep Creek	65 50
" Shoemaker Creek	215 50
" Slate Creek	362 00
" Summit City	434 00
Street—Tulameen Townsite	435 00
" Vermilion Avenue-Princeton	390 30
Sidewalks—Hedley	34 15
" Princeton	1,279 11
General supplies	1,856 22
Road Superintendent and office	3,103 55
Total	$132,039 16

Skeena District. (Vote 82.)

Coast Division.

Road—Balmoral Cannery	$ 171 50
" Cedarville-Kitwanga	394 25
" Claxton-Carlisle Cannery	251 75
" Copper City	205 70
" Copper City-Little Canyon	216 25
" Corlet-Little Canyon	279 75
" East Spring Creek	445 50
" Kitwanga-Nass	3,094 70
" Gold Creek-Kitsalas	2,081 91
" Kitsalas Settlers	296 90
" Kitsumgallum Lake	3,282 33
Carried forward	$ 10,720 54

Brought forward ..... $ 10,720 54

SKEENA DISTRICT. (Vote 82.)—*Continued.*

Coast District.—Concluded.

Road—	Kitsumgallum-Little Canyon	4,688 42
"	Kitsumgallum Main	4,397 90
"	Kitwanga and Skeena River up Kitwancool	1,827 00
"	Lakelse and Kitamat	8,478 11
"	Lakelse Wagon	69 20
"	Little Canyon-Deep Creek	64 22
"	Little Canyon-Lakelse-South settlement	2,391 01
"	Little Canyon-Kitamo	112 25
"	Lorne Creek-Andersville	870 25
"	Porcher Island	249 85
"	Port Essington	1,129 63
"	Phillip's Creek	377 60
"	Refuge Bay	2,166 25
"	Spiller River	882 00
"	Stewart's Landing	794 61
"	West End, Lakelse	95 50
Trail—	Alice Arm and Nass	2,951 40
"	Cole's near Hillsgate Slough	75 20
"	Copper River	2,975 59
"	Eliza Creek	492 50
"	Ex-chum-siks	710 70
"	Kitwanga	5,434 69
"	Goose Bay	723 75
"	Herman Lake	1,181 00
"	Hoe's	210 00
"	Kitamat	224 75
"	Kitsumgallum and Nass-North of Lake	1,050 60
"	Lorne Creek	56 00
"	Nass-Port Nelson-Arrandale	350 00
"	Neanskinisht	15 95
"	Welcome Harbour	450 00
"	Williams Creek	214 20
Streets—	Kitsalas	158 35
Walks—	Port Simpson	387 05
Ferry—	Copper City	90 50
General supplies		2,678 18
Road Superintendent and office		4,310 45
	Total	$ 64,050 18

Queen Charlotte Islands Division.

Road—	Bear River-Portland Canal	$ 5,463 20
"	Carpenter Bay	101 50
"	Nada	738 15
"	North Settlement-Lorne Hill	1,791 70
"	Sand Spit and Shingle Bay	961 00
"	Skidegate-Tel-el	13,585 10
"	White Creek	4 70
Trail—	American Creek-Portland Canal	1,252 84
"	Bear River Extension-Redcliffe	4,007 88
"	Bear River-Nass	11,183 87
"	Bear River and Tod House	240 45
	Carried forward	$ 39,320 39

Brought forward	$ 39,320 39

Skeena District. (Vote 82.)—*Continued.*

Queen Charlotte Islands Division.—Concluded.

Trail — Bitter Creek	755 40
" Cape Fife-Tel-el	2,130 05
" Collison Bay-Moresby Island	366 25
" Copper and Shingle Bay	225 50
" George Bay near Jedway	137 75
" Glacier Creek-Portland Canal	828 15
" Honna River	271 20
" Houston Inlet-Moresby Island	308 50
" Huxley Island	147 00
" Ikeda-Jedway	618 75
" Jedway Harbour	162 45
" Kundis Slough	485 10
" Lockspur-Tasso	1,590 55
" Marmot Creek	617 60
" Masset and Cape Fife	4,269 50
" Mayor Lake	1,992 75
" McLellan near Skidegate	374 60
" Salmon River	3,892 70
" Sewell Inlet	610 60
" West Narrows, Security Bay	84 00
" West Settlement, Graham Island	381 00
" White River	341 25
" Woden River	150 11
Stewart (streets improvement)	3,239 83
Powder and store house	89 20
General supplies	284 53
Road superintendent and office	3,537 60
Total	$ 67,212 31

Interior Division.

Road — Aldermere-Pleasant Valley	$ 623 55
" Cut-off to Telkwa from Hazelton-Aldermon	853 25
" Glen Mountain	695 55
" Hazelton-Aldermere	18,188 50
" Heal-Norris	686 38
" Hudson Bay Mountain for Morristown	185 00
" Kispiox Valley	4,849 71
" Kitsequecla	1,196 80
" Main Government Ranch-Fraser Lake	16,511 85
" Nine-mile Mountain Wagon	9,506 35
" North Francois Lake	1,229 90
" Ootsa-West of Francois Lake Sleigh	352 55
" Pleasant Valley-Francois Lake Sleigh	6,809 56
" Round Lake Wagon	1,264 30
" Sleigh along Ootsa Lake	129 25
" Telkwa-Canyon Creek	3,851 70
" West Side Bulkley Wagon	3,678 71
Trail — Aldermere-Babine Mountain	808 80
" Copper River	717 45
" Groundhog Mountain	626 57
" Hudson Bay Mountain	150 00
Carried forward	$ 72,914 73

Brought forward	$ 72,914 73

SKEENA DISTRICT. (Vote 82.)—*Concluded.*

Interior Division.—Concluded.

Trail — Hunter Basin	337 80
" Jumper Creek	702 45
" Kitsequecla Lake	448 10
" Manson Creek	2,893 96
Sidewalks—Hazelton	43 50
Addition to Government stable	1,443 00
General supplies	8,193 13
Road Superintendent and office	5,969 70
	$ 92,947 37

Bella Coola Division.

Road — Grants	229 25
" Hagensborg	3,756 00
" Saloonet	150 00
" Sloan	3,789 48
" Sloan-Anaham	2,510 75
Trail — Anaham Lake	468 50
" Kimsquit	1,339 61
Clayton's Road (approach)	100 00
Neccletsconnay (crib)	6 90
General supplies	19 00
Road superintendent	1,195 00
	$ 13,555 49

SLOCAN DISTRICT. (Vote 82.)

Road — Bonanza Creek	$ 869 50
" Brouse	729 00
" Carpenter (South Fork)	224 50
" Cariboo Creek	558 75
" Columbia River	20,149 46
" Deer Park	2,961 33
" Denver Canyon	418 50
" Farquier's Landing	100 00
" Little Slocan	2,012 25
" McCormick	2,440 50
" McGuigan	550 00
" Nakusp (east)	1,703 53
" Nakusp-Box Lake	1,345 76
" New Denver-Roseberry	2,934 36
" New Denver-Silver Mountain	173 50
" New Denver-Silverton	1,042 50
" Ottawa Mine	13 00
" Payne	776 58
" Penticton-Cariboo	230 00
" Queen Bess	78 00
" Rush Mine	252 00
" Silverton and Four-mile	4,472 87
" Slocan and Beaver Creek	1,368 90
" Slocan Republic	25 00
" Slocan River	10,599 27
Carried forward	$ 56,029 06

Brought forward ..... $ 56,029 06

Slocan District. (Vote 82.)—*Concluded.*

Road—	Slocan Star Mine	138 00
"	Springer Creek	530 90
"	Summit and Box Lake	1,621 10
"	Ten-mile Creek	764 50
"	Three Forks-Bear Lake	1,510 85
"	Three Forks-Sandon and Cody	477 00
"	Vancouver Mine	72 00
Trail—	American Boy	70 00
"	Black Prince	192 00
"	California	87 50
"	Carnation	44 00
"	Carpenter (North Fork)	261 50
"	Cinderella	108 00
"	Eight-mile to ten-mile	60 00
"	Glacier	25 00
"	Great Mountain	75 00
"	Jo Jo	111 00
"	Koos-ke-nax	16 50
"	Lakeside	59 00
"	Lemon Creek	47 00
"	Lemon Creek (North Fork)	273 00
"	L.H	48 00
"	Long Creek	50 00
"	Mercury	52 50
"	Meteor Mine	23 00
"	Mittee Mack	25 00
"	Monitor and Queen Bess	62 00
"	New Denver and Three Forks	733 60
"	Sandon-Ivanhoe	49 00
"	Sandon-Rico	343 50
"	Summit Creek	43 00
"	Ten-mile Creek	52 00
"	Ten-mile-Springer	13 00
"	Twelve-mile	12 00
"	Wilson Creek	27 50
Streets—	Nakusp	1,856 37
"	New Denver and sidewalks	2,194 61
"	Silverton and sidewalks	658 54
Sidewalks—	Burton	252 60
"	Burton (north)	349 00
Bridge—	Carter	40 00
"	Tate Creek	15 00
Bank-protection—	Lemon Creek	591 00
Bridge-protection—	Cedar Creek Bridge	40 00
"	Carpenter Creek Bridge	166 45
"	McCormick Creek	145 60
"	Springer Creek	413 50
General supplies		1,771 79
Road superintendent and office		2,398 80
		$ 75,000 17

YALE DISTRICT. (Vote 82.)

Road —	Ashcroft-Penny's	$ 156 00
"	Back Valley	2,110 75
"	Brolen	121 30
"	Cain Valley	465 85
"	Cautlin	150 00
"	Chaumox	2,142 20
"	Coldwater	2,677 90
"	Colletville	692 15
"	Comfort-Sunshine Valley	189 60
"	Cornwall	672 75
"	Coultee-Coyote Valley	430 00
"	Coyote	50 00
"	Deadman Creek Extension	1,095 78
"	Fish Lake	3,703 42
"	Hat Creek	306 15
"	Harrison Hot Springs	2,811 89
"	Highland Valley	3,222 74
"	Hope-Ferry Landing	150 20
"	Howarth	150 80
"	Kirby	510 00
"	Logan	15 00
"	Lytton-Gladwin	63 20
"	Lytton Ferry	33 00
"	Lytton-Lillooet	10,231 36
"	Main Trunk	3,221 44
"	Mametta Lake	2,388 35
"	Matthew	223 00
"	Merritt-Hamilton Hill	605 25
"	Merritt-Middlesboro	92 85
"	Merritt-Nicola (south bank)	1,040 05
"	Merritt-Voight Valley	848 45
"	Midday Valley	438 11
"	Middleboro-Lower Nicola	7 80
"	Mill Creek	2,402 07
"	McGregor	200 00
"	Nicola-Princeton	2,406 50
"	North Lytton	1,214 60
"	One-mile	600 00
"	Penny's	338 00
"	Petit Creek	50 00
"	Pike Mountain	891 75
"	Petit Creek-Comfort-Richards's Ranch	93 50
"	Popcum	6,873 68
"	Potato Garden	182 65
"	Quelchena	4,578 00
"	Salmon River-Chaumox	794 25
"	Sage	101 90
"	Semling Siding	183 73
"	Silver Creek	352 90
"	Spence's Bridge-Nicola	6,586 65
"	Veal	27 00
"	Venables Valley	1,143 85
"	Wallach	2 50
"	Walhachin	619 75
"	Williams	4 25
"	Yale-Cache Creek	478 45
	Carried forward	$ 71,356 51

Brought forward	$ 71,356 51

Yale District. (Vote 82.)—*Concluded.*

Road — Yale-Hope	1,429 14
Trail — Hope-Nicola	1,215 95
" Lytton to Spence Bridge	104 50
" Silver Creek	448 65
" Similkameen	473 77
" Siwash Creek	13 50
Streets—Ashcroft	228 00
" Hope	3,199 43
" Rupert-Hope	307 70
Sidewalks—Yale	455 55
General Supplies	7,591 52
Road Superintendent and office	2,979 67
Total	$89,590 70

Ymir District. (Vote 82.)

Rossland Division.

Road — Amable Mill-Trail	$ 1,834 13
" Castlegar-Trail	221 00
" Columbia River-Trail	92 00
" Dog Creek Main	1,251 12
" Norway Mountain	336 36
" Red Mountain	54 00
" Rossland-Northport	134 00
" Rossland-Sullivan Creek	9 00
" Rossland-Trail	864 62
" Rossland-Trail Division	167 00
" Sheep Creek	588 15
" Stoney Creek-Trail	197 00
Trail — Dewdney	138 00
" Dog Creek	3 00
" Rock Creek	903 98
" Rossland-Gladstone	149 00
" Sheep Lake	48 00
" Sullivan Creek	27 00
General supplies	126 56

Nelson Division.

Road — Alice Mine-Creston	1,110 20
" Arlington	257 75
" Arrow Park (south)	2,325 00
" Bealby	140 00
" Bird Creek	75 00
" Boswell	928 42
" Burt Flat	1,110 00
" California Mine	682 72
" Columbia Garden	480 30
" Creston-Duck Creek	153 00
" Creston-Kitchener	559 50
" Creston-Port Hill	2,190 94
" Deer Creek Wagon	1,216 09
" Dundee	71 05
" Edgewood-Fire Valley	2,086 81
Carried forward	$ 20,530 70

Brought forward ..... $ 20,530 70

YMIR DISTRICT. (Vote 82.)—*Continued.*

Nelson Division.—Continued.

Road—	Edgewood-Needles	2,097 51
"	Emerald	347 00
"	Erickson-Port Hill	5,512 07
"	Erie-Sayward	4,445 07
"	Fruitvale	275 15
"	Fire Valley Wagon	2,199 95
"	Granite and Branches	1,556 48
"	Grey's Creek	834 00
"	Harrop-Procter	1,145 60
"	Kitchener-Grenfell	1,051 30
"	Lower Erickson	380 00
"	Needles-Arrow Park	17 00
"	Needles-Whatshaw Lake	163 00
"	Needles-Watsom Valley	12 00
"	Nelson-Balfour	11,178 05
"	Nelson-Waneta	1,436 35
"	Okell	309 00
"	Pend d'Oreille	5,827 40
"	Reclamation Farm-Summit Creek	667 57
"	Robson (north)	1,349 28
"	Salmo-Erie	236 08
"	Sayward-Trail	701 80
"	Sayward-Waneta	367 60
"	Second Relief	509 70
"	Silver King	400 65
"	Six-mile	172 45
"	Slocan Junction-Taghum	335 76
"	Slocan Valley	2,137 87
"	Springer Creek	627 20
"	Thrums-Slocan Junction	791 38
"	Todd-Pease	344 00
"	Trail-Castlegar	7,614 64
"	West Fork-Summit Creek	121 00
"	Wilcox	245 25
"	Yellowstone	10,609 88
"	Ymir-Salmo	4,959 19
Trail—	Bayonne	155 00
"	Deer Creek	552 80
"	Emerald	259 00
"	Erie	156 60
"	Gamble Creek	71 25
"	Goat River	643 00
"	La France Creek	49 50
"	Mill Creek	534 20
"	McGarrity Creek	31 50
"	Nine-mile	126 00
"	Porcupine	29 00
"	Procter	247 00
"	Salmon River	40 00
"	Sheep Creek	161 00
"	Summit Creek	358 00
"	Wolf Creek	292 25

Carried forward ..... $ 91,218 13

Brought forward	$ 91,218 13

Ymir District. (Vote 82.)—*Concluded.*

Nelson Division.—Concluded.

Streets—Creston	2,156 29
" Crossing on High, Nelson	8 20
" Erie (improvement)	184 06
" Fairview	3,643 51
" High and Nelson Avenue	990 00
" Salmo (improvement)	742 68
" Ymir (improvement)	725 17
Sidewalk—Cemetery Road	120 20
" Mountain Station	279 28
General supplies	552 92
Road superintendent	2,019 50
Total	$102,639 94

Stewart (Construction of Streets, Sewers, etc.). (Vote 82.)

Streets—Brightwell	$ 4,215 91
" Columbia Avenue on Ninth	14 85
" Columbia	216 33
" Conway	896 15
" Eighth	106 25
" Fifth	8,918 96
" Fourth	791 29
" Ninth	463 69
" Seventh	467 55
" Sixth	1,337 90
" Third	422 55
" Thirteenth	624 55
" Twelfth	561 55
" Vancouver	29 60
" Victoria	74 61
General	6,837 06
	$ 25,978 80

Jordan River Road (Refund). (Vote 82.)

Vancouver Island Power Co	$ 32,772 78

Location of Roads. (Vote 82.)

Alberni	$ 1,153 00
Cariboo	7,551 27
Columbia	10,280 95
Comox	155 00
Cowichan	746 60
Cranbrook	1,131 50
Delta	774 15
Dewdney	3,064 55
Esquimalt	3,302 46
Fernie	1,200 23
Grand Forks	1,790 50
Greenwood	454 00
Kamloops	93 50
Carried forward	$ 31,697 71

Brought forward ..... $ 31,697 71

LOCATION OF ROADS. (Vote 82.)—*Concluded.*

Kaslo	1,187 19
Newcastle	240 10
Okanagan	4,468 60
Richland	11,459 76
Saanich	37 50
Similkameen	6,531 84
Skeena (Prince Rupert)	4,583 24
Skeena (Hazelton)	2,202 95
Slocan	1,827 60
Yale	899 59
Ymir	4,506 60
J. P. Forde (assistant engineer)	3,669 46
	$ 73,572 14

POINT GREY DISTRICT. (Vote 82.)

Road — Alma	$ 19 40
" Chaldecott	4,185 13
" Cross Country Marine	500 00
" Kaye	1,223 15
" Marine Drive	53,419 85
" South Boulevard	9,086 57
Street—Crown	1,751 68
" Fourth Avenue	23,504 85
" Granville Street (pavement)	54,634 51
Government gasolene-boat	68 01
General supplies	202 45
Road superintendent	330 00
	$148,925 60

ROAD MACHINERY. (Vote 82.)

Alberni—	Graders, etc	$2,054 00
Atlin—	Induction-motor, pile-driver, etc	1,560 00
Cariboo—	Ploughs, graders, wagons, etc.	4,656 63
Chilliwack—	Machinery, hardware, labour, etc.	20,808 65
Columbia—	Road-roller, graders, etc.	2,192 85
Comox—	Road-rollers, etc.	640 90
Cowichan—	Scrapers, etc.	342 89
Cranbrook—	Graders, ploughs, etc.	1,568 87
Delta—	Graders, crusher, wagons, etc.	8,385 00
Dewdney—	Cable, scrapers, wagon, etc.	1,135 72
Esquimalt—	Crusher, rollers, compressor, etc.	14,629 97
Fernie—	Road-roller and freight	749 00
Grand Forks—	Crusher, roller, freight, etc.	3,751 20
Greenwood—	Graders, freight, etc.	562 98
Kamloops—	Crusher, graders, etc.	5,457 51
Kaslo—	Ploughs, etc.	68 85
Lillooet—	Graders, mixer, etc.	1,610 70
Newcastle—	Roller, grader, etc.	960 00
Okanagan—	Graders, wagons, etc.	3,638 90
Revelstoke—	Hoisting-machine, roller, etc.	1,878 11
Richmond—	Traction-engine, repairs, etc.	8,307 71

Carried forward ..... $ 84,960 44

Brought forward ..... $ 84,960 44

Road Machinery. (Vote 82.)—*Concluded.*

Similkameen—	Graders, ploughs, etc.	4,673 75
Skeena—	Horses, ploughs, graders, etc.	5,008 37
Islands—	Grader	33 00
Yale—	Graders, wagons, etc.	2,580 64
Ymir—	Ploughs, graders, etc.	741 35
General—		1,984 46
		$ 99,982 00

Vancouver Island Trunk Road. (Vote 82.)

Expended for labour and supplies ..... $ 30,006 97

Wharves. (Vote 82.)

Alberni	District—	Alberni	$ 8 63
"	"	Clayoquot	1,061 90
"	"	Texada Island	2,354 05
Comox	"	Comox and footpath	1,439 14
"	"	Denman Island	974 07
"	"	Dog Lake	356 04
"	"	Heriot Bay	527 34
"	"	Hornby Island	886 82
"	"	Lund	77 00
"	"	Quathiaski	38 50
"	"	Salmon River	1,602 05
"	"	Shoal Bay	360 15
"	"	Sointula	866 35
"	"	General supplies	230 17
Cowichan	"	Maple Bay	44 00
Dewdney	"	Ferry Slip, Mission	3,286 64
"	"	Matsqui	1,209 75
Islands	"	Beaver Point	106 09
"	"	Coal Island	500 34
"	"	Gabriola (floating)	41 15
"	"	Fulford	684 97
"	"	Galiano Island	1,100 92
"	"	Ganges Harbour	1,027 21
"	"	General	222 30
"	"	Hill Island	386 59
"	"	Hope Bay	266 71
"	"	Kuper Island	1,403 95
"	"	Longstaff	48 50
"	"	Mayne Island	1,300 31
"	"	Port Washington	67 60
"	"	Pier Island	790 21
"	"	Thetis Island	760 36
Kaslo	"	Ainsworth	75 00
"	"	Hawser	34 90
Newcastle	"	Government, Ladysmith	149 06
Okanagan	"	Cossar's	336 33
"	"	Ewing's	231 57
"	"	Gellatly	32 00
"	"	Hall's Landing	615 35
"	"	Helena	238 50
"	"	Kelowna	180 50

Carried forward ..... $ 7,288 02

Brought forward ..... $ 7,288 02

WHARVES. (Vote 82.)—*Concluded.*

Okanagan District		Kelowna (west bank slip)	11 50
"	"	Machinery and plant	247 90
"	"	McKinley	973 15
"	"	Napun	44 50
"	"	Naramata	1,239 27
"	"	Okanagan Centre	886 57
"	"	Okanagan Mission	120 20
"	"	Paradise	154 72
"	"	Peachland	979 76
"	"	Penticton	1,738 19
"	"	Short Creek	289 35
"	"	Summerland	603 39
"	"	Westbank	622 58
"	"	Whiteman	16 00
"	"	Whipple, Long Lake	7 00
"	"	General supplies	137 58
Richmond	"	Brunswick Beach	2,272 07
"	"	Deserted Bay	3,068 52
"	"	Gibson Landing	1,314 32
"	"	Grantham's	60 00
"	"	General	198 50
"	"	Keat's Island	46 00
"	"	Robert's Creek (float)	3 00
"	"	Snug Cove	2,584 75
"	"	Squamish	3,794 50
Similkameen	"	South Penticton, Okanagan Falls, Kaleden	1,915 78
Skeena	"	Bella Coola	323 35
"	"	Government	790 00
"	"	Jedway and float	49 85
"	"	Prince Rupert (approach)	26,331 33
"	"	Prince Rupert (sea-wall)	1,645 93
"	"	Prince Rupert (wharf)	47,629 95
"	"	General supplies	468 00
		Total	$126,490 53

FERRIES. (Vote 84.)

	Vote.	Expenditure.
Canoe River (new boat, $600)	$ 1,200	$ 1,216 45
Columbia River, Spillimachene	500	500 00
Copper River (equipment)	700	678 35
Fraser River, Agassiz	600	600 00
" Big Bar	300	300 00
" Churn Creek	900	900 00
" Fort George	2,500	3,680 76
" Harrison and Chilliwack	600	600 00
" High Bar	300	300 00
" Hope	600	600 00
" Lytton (above)	480	507 60
" Mission (new)	9,500	9,652 16
" Quesnel	900	693 75
" Ruby Creek	400	400 00
" Soda Creek	900	900 00
" Twenty-mile above Lillooet	300	300 00
East Summerland	1,000	1,166 66
Goldstream, Columbia River	350	.....

Ferries. (Vote 84.)—*Concluded.*

	Vote.	Expenditure.
Kelowna	1,000	1,000 00
Nass River (equipment)	700	703 19
Nechaco, Milne's Landing	900	737 00
Nechaco, Fort George (east)	2,500	2,495 69
North Thompson (upper)	900	900 00
Pitt River (new) half subsidy	10,000	1,068 10
South Thompson River, Ducks	600	600 00

Steamboat Subsidies. (Vote 85.)

Columbia River above Golden	1,250	1,250 00
Columbia River above Revelstoke	2,500	2,500 00
Dog Lake, Similkameen	1,000	1,000 00
North and South Thompson, Shuswap	4,000	4,000 00

Contingencies. (Vote 86.)

Alberni	District—	Campbell River Road	$ 489 75
"	"	Cleaning up gravel-up	19 25
"	"	Harrison's Road	20 75
"	"	Nanaimo-Alberni Road (east)	51 50
"	"	San Josef Valley Road	436 28
"	"	Scotch Settlement	6 25
"	"	Texada Central Road	106 75
"	"	Walker's Road	42 45
"	"	Road Superintendent	158 45
Atlin	"	General	48 72
Columbia	"	Compensation for land	79 50
Chilliwack	"	Vedder Mountain rock-quarry	16,052 05
Comox	"	Cumberland-Roy Road	595 24
"	"	Government Buildings, Cumberland	4,000 00
"	"	Union Bay flood	407 25
"	"	Victoria-Campbell River Road	800 70
Cowichan	"	Cowichan Lake Wagon-road	452 12
"	"	Nitinat Inlet, Section 528	307 00
"	"	Shawnigan Lake Road	3,045 71
Cariboo	"	Compensation for land	580 00
"	"	Government Office, Fort George	9,569 56
"	"	Stable, 150-Mile House	2,161 27
"	"	Fort George-Blackwater Road	20 11
"	"	Fort George Ferry, Nechaco approach	4,288 33
"	"	Fraser River Ferry, Fort George	3,132 25
"	"	Government warehouse, Fort George	2,071 52
"	"	Nechaco Ferry	84 50
"	"	Quesnel Ferry	354 27
"	"	Seven-mile Creek-Hydraulic	1,110 70
Dewdney	"	Ferry-boat (J. H. Sproat), Mission	272 81
"	"	Maple Ridge dredge	10 76
"	"	Mission Ferry	8,112 55
Delta	"	Cloverdale Bunkers	818 05
"	"	Ladner Trunk Road	2,000 00
Esquimalt	"	Compensation for land	500 00
"	"	General	3 90
"	"	Storehouse, etc., Esquimalt	5,808 47
Grand Forks	"	Franklin Road, No. 2	725 00
"	"	Grand Forks-Carson Road	127 50
		Carried forward	$ 68,871 27

Brought forward ..... $ 68,871 27

CONTINGENCIES. (Vote 86.)—*Continued.*

Grand Forks District		Grand Forks-Franklin Road	15 00
"	"	No. 14 Road	160 00
"	"	No. 16 Road	45 00
Lillooet	"	General	308 78
"	"	Government stable, Clinton	2,101 77
Newcastle	"	City of Nanaimo	5,000 00
Okanagan	"	Valley Road (Enderby Section)	1,000 00
Revelstoke	"	Big Bend Main Trail	2,585 50
"	"	Canoe River Trail	125 00
"	"	Columbia Ferry, Hall's Landing	400 00
"	"	Columbia River, West Side Road	822 84
"	"	Columbia River, South Road	3,105 31
"	"	Comaplix-Beaton Road	13 25
"	"	Downie Trail	12 00
"	"	Fish River Road	42 65
"	"	Goldstream Trail	761 00
"	"	Greeley Creek Road	476 00
"	"	Revelstoke West Roads	127 60
"	"	Scott-Menhinick Creek Trail	16 50
"	"	Trout Lake Wagon-road	32 90
"	"	Waverley Road	27 20
"	"	General	224 06
"	"	Road Superintendent	684 15
Saanich	"	Cedar Hill Road	188 25
"	"	Mount Newton Road	1,128 30
"	"	Saanich Main Road (east)	95 15
"	"	Todd Road	406 40
Skeena	"	Copper River Ferry	325 50
"	"	Government Ranch-Fraser Lake Road	3,207 20
"	"	Registry Office, Rupert	2,599 86
"	"	Compensation, injuries, Chaffey	1,635 80
"	"	Government Building, Fort George	196 75
"	"	Mining Recorder's Building, Stewart	2 25
"	"	Nass River (ærial tram)	580 31
"	"	Stable and office, Hazleton	2,474 18
"	"	Spring Creek Bridge and Road	10 50
"	"	Terrace-Lakelse Valley Road	739 35
"	"	Tom Creek-Silver Creek Trail	150 00
"	"	Yakom Lake North Road-Section 22, Tp. 9, G. I.	250 00
Similkameen	"	Compensation for injuries	500 00
Vancouver Island Trunk Road District		Compensation for injuries	500 00
"	"	" Mill Bay Road	10,000 00
Yale	District	Lytton (fire-protection)	800 00
"	"	Muddy Creek Trail	487 00
"	"	North Bend Ferry	206 50
"	"	Right-of-way, Nicola-Princeton	300 00
Ymir	"	Arrow Park-Mosquito Lake Trail	1,000 00
"	"	Alice Road	257 20
"	"	Burnt Flat Road	433 60
"	"	Bridge approach, Trail	1,967 24
"	"	Creston-Kitchener Road	1 80
"	"	Creston-Porthill Road	12 00
"	"	Creston (streets and sidewalks)	28 18
"	"	Erie-Sayward Road	6 75

Carried forward $117,447 85

Brought forward $117,447 85

Contingencies. (Vote 86.)—*Concluded.*

Ymir	District—	Ferry at Reclamation Farm	466 09
"	"	Fruitvale Road	215 51
"	"	Harrop-Procter Road	2 00
"	"	Needles-Whatchan Road	300 00
"	"	Nelson-Balfour Road	1,944 89
"	"	Nelson Court-house (tool-house)	652 00
"	"	Nelson-Taghum Road	12 00
"	"	Peterman Road	36 00
"	"	Reclamation Farm-Summit Creek	92 50
"	"	Repairing sidewalks, Fairview	51 98
"	"	Road machinery	24 77
"	"	Road Superintendent	596 90
"	"	Salmo (streets and sidewalks)	36 00
"	"	Sayward-Waneta Road	4 00
"	"	Silver King Wagon-road	75
"	"	Slocan Junction-Taghum Road	2,545 59
"	"	Taghum Bridge	10 50
"	"	Trail-Castlegar Road	9 00
"	"	Wild Horse Trail	520 75
"	"	Yellowstone Road	458 95
"	"	Ymir-Salmo Road	39 00
"	"	Schools	16 00
	Total		$125,483 03

Exploration and Development, Strathcona Park. (Vote 138.)

Surveyors' charges and equipment ..... $ 10,003 62

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)

Alberni District.

Alberni Road, No. 8	$ 5 50
Alberni Road, No. 25	1,448 55
Alberni Road, No. 38	1,347 37
Alberni Road, No. 63	25 00
Beaver Creek, No. 1	39 82
Beaver Creek, No. 26	43 57
Beaver Creek, No. 38	209 47
Bekker's	16 50
Big Qualicum	270 15
Browning Passage Road, Clayoquot	65 25
China Creek Road	1,160 85
Clayoquot-Ucluelet Road	426 01
Central Lake Road, No. 1	39 85
Deer Creek	85 25
Departure Bay Road	654 77
Dry Creek	78 98
First Avenue	18 90
Friendly Cove Trail, Nootka	210 25
Hector Road	571 55
Carried forward	$ 6,717 59

Brought forward	$ 6,717 59

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

ALBERNI DISTRICT.—*Concluded.*

Indian Hill-Nanoose Bay, Nos. 2 and 3	16 50
Little Niagara, Nanaimo-Alberni Road	507 79
Little Qualicum	619 16
Lower French Creek	1,071 67
Morrison Creek-Dunn's Road	401 31
Quatsino	122 70
Raven Creek-Texada Central Road	250 15
Texada, No. 2 (new)	205 75
Texada, No. 3 (new)	242 20
Townsite Road	160 37
Ucluelet-Clayoquot Road, No. 1	139 00
Upper French Creek	365 58
Victoria-Campbell River Road	252 75
West Arm-San Josef Valley Road	4,480 83
General	1 15
Total	$ 15,554 50

ATLIN DISTRICT.

Casca Road	$ 117 38
Dease Creek	3 00
Glenora Road	32 50
Klehim-Pleasant Camp	788 75
Little Devlin Creek-Dease Lake	63 75
Little Tahltan	272 12
Nahlin	63 00
Salmon Creek	26 50
70-Mile Post-Telegraph Creek	31 87
Stikine Avenue	121 27
Toozea-Telegraph Creek	66 50
Tahltan	191 90
Total	$ 1,778 54

CARIBOO DISTRICT.

Antler Creek	$ 80 00
Baker Creek	1,582 41
Bear River	100 00
Cariboo Main Road	1,088 50
Chilcotin	9 75
China Creek	373 50
Cunningham Creek	14 00
Dragon Creek	77 00
Dragon Lake	160 00
Fraser River-Quesnel	23 50
Hepburn	610 86
Horsefly-Harper's Camp	1,151 36
Hudson Bay Slough	3,303 21
Keithley Creek	1,217 06
Meiss	92 25
150-Mile House-Harper's Camp Road	880 25
Peter Creek	133 25
Carried forward	$ 10,846 90

Brought forward	$ 10,846 90

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

Cariboo District.—*Concluded.*

Quesnel-Quesnel River	4,853 23
Quesnel River (new bridge over North Fork)	2,964 39
Road No. 8, Harper's Camp-Beacon Lake	323 00
Sister's Creek	211 00
Soda Creek (new)	3,055 17
Willow River	95 00
Williams Creek	157 50
General	153 55
Road Superintendent	310 00
Total	$ 23,019 74

Chilliwack District.

Deconsin	$ 79 30
Elk Creek	1,170 88
Starr	316 15
Smith-Yale Road	679 34
Suma Mountain Road	553 62
Suma Creek	40 88
West Yale Road	1,807 99
York Creek	1,006 63
Yarrow	1 50
Vedder Mountain rock-quarry (trestle)	7,567 33
Total	$ 13,223 62

Columbia District.

Athalmer Creek	$ 1,216 59
Bett's	5 00
Boulder Creek	26 00
Carbonate Creek	91 50
Carbonate Landing	1,045 71
Dutch Creek	2,174 60
Galena	211 25
Haddon's Washout Creek	10 24
Horse Thief Creek	12,421 36
Iron Slough	420 00
Kicking Horse	965 13
Kootenay River	3,723 27
Marion Creek	110 00
Main Road-Hardie Division	2,895 50
Spillamachene	14,250 01
Ten-mile Post	13 00
Toby Creek	122 50
Washout Creek-Galena	310 00
Washout-Haddon's	827 24
Wait-a-Bit	345 00
Wilmer	210 54
General	116 87
Road Superintendent	1,367 69
Total	$ 42,879 00

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

COMOX DISTRICT.

Baynes Sound	$	80 25
Black Creek, No. 2		335 28
Brooklyn		51 00
Boulder Creek		300 50
Coal Creek		679 98
Coal Harbour-Hardy Bay		614 20
Cook's, No. 1		165 41
Cook's, No. 2		115 00
Cougar Creek		309 29
Courtney River		319 10
Courtney Slough		221 67
Deep Bay, Nos. 1 and 2		143 00
Drew Harbour-Valdes Island		297 60
No. 4		68 00
No. 5		40 00
Harrigan		67 50
Jones-Read Island		214 37
McQuillan		54 46
Nashvitti River		2,694 08
Reese		43 36
Rosewall		683 40
Sandhill		95 00
Trent River		625 17
Washer		105 44
Waterloo		670 50
General		5,292 00
Total	$	14,285 56

COWICHAN DISTRICT.

Chemainus	$	174 43
Clem-clen-detts		9 50
Corfield		922 04
Cowichan Station		80 83
Dighton's		69 43
Duncan Wagon-road		79 63
Elliott's		480 13
Evan's		176 25
Golding's		51 65
Hall's		127 50
Halked		9 25
Kelvin Creek		198 40
Koksilah Crossing		62 50
Koksilah River		1,674 60
La Fortune		73 65
Mainguy's		65 00
MacFarlane		40 11
Mead Creek-Cowichan Lake		419 19
Mill Creek		58 10
Nangles		22 75
Pinbury		106 50
Payne's		167 02
Shawnigan Lake (outlet)		604 81
Carried forward	$	5,673 27

Brought forward	$ 5,673 27

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

Cowichan District.—*Concluded.*

Somenos Creek	112 11
Speers	13 50
Trunk Road, No. 1	11 87
Trunk Road, No. 2	107 37
Week's	2 70
General	827 61
Total	$ 6,748 43

Cranbrook District.

Bull River	$ 1,650 91
Concrete, east of Cranbrook	923 25
Delmar, over Joseph P. Creek	848 58
Evans, over White Fish Creek	324 00
Hilton's, near Wattsbury-Palmer Bar Creek	100 00
Hospital Creek, No. 2, Route 1	550 21
Kingsgate	27 10
Kootenay-Steele	29 70
Kootenay River-Wardner	669 76
Kootenay River-Wasa	6,257 51
Lamb Creek	2,522 79
Little Moyie River, near mouth	2,895 38
Lower Curzon	229 41
Mark Creek-Kimberly	522 33
Mark Creek-Marysville	1,001 20
Moyie River-Aldridge	2,369 36
Moyie River-Curzon	1,087 57
Moyie River-Narrows	3,043 65
Moyie River-Swansea	3,783 55
Moyie River-Yahk	93 47
Palmer Bar Creek	58 83
Six-mile Creek	200 00
Skookumchuck	15 00
St Mary's Lake	539 25
St Mary's River-Mission	69 00
St Mary's River-Westport	17,569 99
St Mary's River-Wycliffe	2,109 66
St Mary's at outlet of St Mary's Lake, on Whitefish-St Marysville Road	1,644 30
Sullivan Creek	361 76
Plant	5 15
General	236 46
Total	$ 51,738 93

Delta District.

Boundary-line cribbing	$ 137 20
Campbell Creek-International Highway	2,677 64
Campbell River-Pacific Highway	1,062 50
Canoe Pass	3,177 60
Goldsmith	225 00
Hooker	958 22
Jackman Road (north)	125 41
Carried forward	$ 8,363 57

Brought forward	$ 8,363 57

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

DELTA DISTRICT.—*Concluded.*

Johnson	2,136 65
McKenzie-Hall's Prairie Road	59 80
Nicomekl	2,642 04
Park's-Clover Valley Road	188 55
Sherlock	392 05
Serpentine	1,572 65
Steel No. 1, War Whoop Road, Langley	454 31
Steel No. 2	260 00
Slough on road to Tannery	63 68
Westland	3,028 79
Watson Creek-Campbell River Road	204 69
General	24 50
Total	$ 19,391 20

DEWDNEY DISTRICT.

Belsford Road	$ 143 65
Bonson Road	213 75
Bosomworth	1,241 04
Cedar Valley	16 55
Codd	94 20
Coquitlam	143 00
Dewdney Trunk Road	490 45
Douglas Portage	47 80
Douglas Road	91 45
Hatzic Prairie and Dewdney Road	226 10
Kanaka	442 30
Malcolm	61 40
Mission-Stave Lake	195 75
Port Douglas	3,151 79
Pitt River	2,226 05
Port Moody Townsite	130 69
Scott	78 05
Short Street-Port Moody Townsite	125 55
Silverdale	913 79
Sylvester Road	209 45
Whonnock	2,292 15
General	50 00
Total	$ 12,584 94

ESQUIMALT DISTRICT.

Albert Head	$ 1,299 10
Bilstone	1,566 38
Cigar Maker	30 50
Coal Creek	1,178 80
Doran-Sooke Road	407 80
Finlayson Arm	493 86
Goldstream Cross Road	367 70
Goldstream Road	26 19
Happy Valley Road	66 85
Carried forward	$ 5,437 18

Brought forward ..... $ 5,437 18

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

Esquimalt District.—*Concluded.*

Hawkins-Island Trunk Road	15 30
Henry's-Happy Valley Road	550 10
Hewitt	739 42
Julius Barron	78 50
Muir Avenue	31 27
No. 1, Otter Point Road	7 50
Parson's	33 30
Port Renfrew (east side)	2,223 76
Shawnigan Lake Road, No. 13	13 75
Shawnigan and Sooke Lake	629 30
Sherwood	1.151 03
Sooke (east)	841 45
Sooke Main, Road	549 30
Sooke Road, No. 1	36 38
Sooke Road, No. 4	284 76
Sooke Road, No. 6	227 20
Sooke Road, No. 12	394 50
Sooke Lake Road	55 50
Summit (new road)	100 00
Wiggs	135 25
General	20 82
Total	$ 13,555 57

Fernie District.

Coal Creek	$ 17 25
Elk River-Elkmouth	26,803 36
Elk River-Elko	518 00
Elk River-Fernie	601 99
Elk River-Fording River	300 00
Elk River-Phillips	42 69
Fairy Creek	1,427 50
Gateway	553 54
S. Graham-Michel	3 00
Hosmer	33 00
Little Land Creek	52 17
Michel-Olsen	535 22
Michelmouth	66 00
Rock Creek	28 80
Sand Creek	34 56
Plant	126 40
General	2,194 69
Superintendent	759 55
Total	$ 34,097 72

Grand Forks District.

Athelstone Mine	$ 130 00
Carson	104 00
Cascade	18 54
First Street	9,372 34
Fourth Street	42 00
Hardy	1,168 37
General	67 75
Total	$ 10,903 00

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

GREENWOOD DISTRICT.

Boundary Creek, No. 2	$ 795 00
Kettle River near Nicolson Creek	5,456 63
Midway	163 50
General	431 84
Total	$ 6,846 97

KAMLOOPS DISTRICT.

Beaks over Nicola River	$ 196 50
Douglas Lake	95 00
Eagle River at Bowie	2,967 47
Glenemma	599 71
Hudson Bay Gulch	236 40
Municipality of Salmon Arm	34 45
North Thompson, West Road	186 82
Red	19,499 06
Reserve, Kamloops	152 00
Reserve Slough	505 01
South Thompson	38 10
Savona	133 75
Squilax Road	309 25
Thompson River-Kamloops	3,583 13
Eagle River at Malakwa (mattress)	225 80
Survey of proposed bridge (Third Avenue) Kamloops	81 50
Survey of Red Bridge site with plans, Kamloops	47 00
Total	$ 28,890 95

KASLO DISTRICT.

Bi-Bi-Duncan River	$ 12 35
Black Fox	167 50
Broadview	123 50
Canadian	390 90
Central Road, No. 1	149 15
Circle City	70 00
Eight-mile	24 00
Ferguson	43 50
Fletcher Creek	353 00
Florence	209 75
Gerrard	74 06
Hammil Creek	28 00
Lardeau (North Fork)	205 50
Liberty Hill	165 00
Poplar Creek	348 95
Queen Bay-Balfour Road, No. 1	95 50
Sproula	82 50
Trout Creek	469 00
General	356 71
Total	$ 3,368 87

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

Lillooet District.

Big Creek	$ 1,147 25
Chilcotin Suspension	27,140 85
Churn Creek	65,757 52
Gun Creek	108 00
Hanceville	10 25
Lillooet-Lytton Road at Little Slide	618 50
Lillooet Suspension	1,242 45
Main Trunk Road	304 15
51-Mile Creek	5,566 75
83-Mile Creek	236 75
87-Mile Creek	190 50
93-Mile Creek	188 30
99-Mile Creek	197 20
109-Mile Creek	79 80
110-Mile Creek	100 00
112-Mile Creek	104 00
Trail near Big Bear, west side of Fraser	56 00
Tyaxon Creek	73 75
General	2,244 45
Total	$105,366 47

Nanaimo City District.

Baker's-Old South Wellington	$ 12 90
Cricket Field	329 50
East Wellington	4 32
Gourley-Five-acre Lots	248 97
Hong Kong	1,584 75
Leonard's-Five-acre Lots	4 35
Raines Road	35 50
Total	$ 2,220 29

Newcastle District.

Baker's	$ 241 70
Boulder Creek	71 45
Davis	35 00
East Wellington	38 75
First Creek	120 73
Fiddick's	6 00
Haslam Creek	4,621 71
Nanaimo River	158 60
No. 1	111 19
South Fork Road	3,081 88
General	185 49
Total	$ 8,672 50

Okanagan District.

Cherry Creek Section.

Perry Creek	$ 612 15
Reiswig	14,354 27
General	474 50
Carried forward	$ 15,440 92

Brought forward ..... $ 15,440 92

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

OKANAGAN DISTRICT.—*Continued.*

Enderby Section.

Ashton Creek	$ 53 61
Enderby	46 00
Grindrod	79 38
Kingfish	1,200 15
North Deep Creek	54 00
Salmon Arm Road	65 00
South Deep Creek	160 00
No. 313c	39 22
Trinity	3,824 46

Kelowna Section.

Dry Valley Road	223 44
No. 4	77 50
K.L.O.	1,675 41
Old Mission	439 62
Thornloe's	248 50
General	221 90

Lumby Section.

Creighton Valley Road	95 25
Eden Flat	122 50
Jones Creek	1,809 21
Lumby and vicinity (small)	91 30
No. 107	68 25
No. 201	43 65
No. 207	7 75
No. 302F	43 49
No. 402F	476 75
Shuswap Avenue	157 50
Whitevale	122 75

Mabel Lake Section.

Squaw Valley Road	51 00

Mara Section.

General	79 16

Naramata Section.

Camp Creek	145 00
No. 602	118 50

Shoot Creek.

Shoot Creek	2,899 77
General	45

Peachland Section.

Deep Creek	125 60

Penticton Section.

Penticton Swing	75 00

Carried forward ..... $ 30,381 99

Brought forward	$ 30,381 99

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

OKANAGAN DISTRICT.—*Concluded.*

Rainbow Section.

No. 2M	46 17
No. 203M	47 14

Silver Creek Section.

No. 103	129 60
No. 201A	72 00
No. 202A	87 25

Shuswap Section.

Finlayson Ford	6,213 52

Summerland Section.

Shingle Creek	55 80

Trinity Section.

Trinity Valley Road	1,844 17

Vernon Section.

Dickout	17 50

Westbank Section.

Morden Creek	54 00
Rashdale Creek	2,024 05
No. 301P	50 50
General	193 24
Total	$ 41,216 93

REVELSTOKE DISTRICT.

Big Mouth	$ 1,555 21
Camps Creek	56 50
Columbia River Traffic	455 75
Goldstream	538 33
Greely Creek	497 75
Fish River-Camborne	54 00
Fish River-Comaplix-Beaton Road	87 00
Illecillewaet-First North Crossing, Waverly Road	84 00
Lawrie	51 00
Lower Illecillewaet	4,259 11
Main Crossing	246 20
Mountain Slough	859 99
Mohawk Creek	36 00
New Upper Illecillewaet	9,340 39
Pool Creek	30 00
Royal Creek	48 00
Salmon Creek	177 65
Seven-mile Creek	43 00
Townsite	195 00
General	270 00
Total	$ 18,884 88

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

RICHMOND DISTRICT.

Barnet Road, No. 1	405 73
Barnet Road, No. 2	1,916 34
Barnet Road, No. 3	205 00
Barnet Road, No. 4	1,382 05
Cheakamus	660 10
Eburne	8,622 50
Government Road, south boundary of Hastings Townsite	3,349 34
Linn Creek, D.L. 272	4,372 43
Madill-Squamish	522 25
Pemberton Valley Road	625 10
Sea Island and Lulu Island	5,152 55
Two-mile	930 40
Wilson Creek	1,787 93
Total	$ 29,931 72

SIMILKAMEEN DISTRICT.

Allison-Similkameen River	$ 524 85
Ashnola River	1,717 50
Cambie River	252 00
Carmi-West Fork Kettle River Road	100 00
Dry Gulch-Otter Lake Road	132 84
Granite Creek	25 00
Gulch at Copper Mountain Road, No. 17	197 50
Keremeos Creek	676 85
Kettle River	220 20
Okanagan Falls	6 00
Okanagan River	120 40
Okanagan River Swing-Penticton	21 50
Okanagan River near Gallaghen	4 00
Okanagan River near McIntyre's	33 00
Otter Creek	281 27
Peanut Point, No. 67-Tulameen	25 00
Robinson's	30 50
Sheep Creek Culvert-Shingle Creek Road	30 59
Shingle Creek Road, No. 5	28 07
Similkameen River-Stirling Creek Road	47 40
Similkameen River-Keremeos	558 40
Similkameen River-Princeton and Ashnola	1,086 00
Siwash Creek-Five-mile Road	88 00
Sterling Creek	238 20
Summit Creek-West Fork Kettle River Road	185 45
Tulameen River-Princeton	151 74
Twenty-mile Creek	123 20
Westbridge-West Fork Kettle River Road	100 00
Total	$ 7,005 46

SKEENA DISTRICT.

American Creek	$ 2,373 07
Bear River	4,689 81
Bear River Breakwater	3,387 32
Bear River Extension	179 50
Bitter Creek	352 39
Carried forward	$ 10,982 09

Brought forward ..... $ 10,982 09

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

SKEENA DISTRICT.—*Concluded.*

Brown Creek	952 58
Bulkley River	2,308 32
Burns and Decker Lake	5,935 30
Burned Ravine	296 37
Buck's Flat	711 88
Canoe Crossing	9,744 82
Cape Ball	844 95
Copper River Trail	528 35
Cranberry Creek	1,845 40
Deep Creek	10 50
Exehumsic River	1,199 17
Four-mile	856 21
Gitwangak	1 00
Gold Creek	2,444 20
Goose Bay	230 65
Hagensborg	1,639 55
Hi-ellen River	376 21
Ikeda Creek	306 00
Kahylst	749 00
Kitsalas to Hardcastle	89 75
Kispiox	3,951 02
Kitsumgallum	247 18
Kundis Slough	77 00
Lakelse Road	55 00
Langan River	83 00
Lorne Creek	16 25
Miller Creek	25 50
Muddy Gulch	4,462 47
McNaughtens Creek	200 00
Nadinaka	6,938 88
Neccletsconnay	1,408 35
Norsatsum	202 00
Oyanda	620 95
Pleasant Valley	36 00
Sandon River	1,098 37
Siskanish	913 55
Slough Creek	929 00
Spring Creek	1,362 00
Suicide Creek	415 13
Telkwa Pack Train	1,722 45
Tel-el River	2,555 48
Terrace-Skeena River	350 15
Thirty-nine-mile	1,355 30
Thorson's	75 50
Three-mile	1,312 46
White River	249 00
Williams Creek	161 00
General	140 91
Tool-house and stable, Copper City	70 00
Superintendent	4 85
Total	$ 73,091 05

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

SLOCAN DISTRICT.

Apple Grove	$ 987 59
Carter's	100 23
Carpenter Creek	374 03
Cedar Creek	9 47
Four-mile	77 31
Five-mile	219 91
Lemon Creek	2,506 48
Long Creek	454 75
Morrison Creek	496 29
McCormack's	311 10
McDonald Creek	47 00
Noble Five	122 50
North Fork	289 00
Snake Creek	174 48
Snow Creek	649 70
Slocan Creek	7,899 79
Taite Creek	392 25
Wilson Creek	5,809 20
General	61 24
Total	$ 20,982 32

YALE DISTRICT.

Armitage	$ 1,126 12
Ashcroft	120 55
Canford	230 25
Chapman	3,732 01
Cleasby	4,364 20
Coquahalla	6,569 29
Emory Creek	335 05
Gordon Creek	24 00
Harrison Hot Springs Road	322 35
Logan	3,792 53
Lytton	378 20
Mill Creek	44 25
Nicola	104 65
Nicola-Princeton Road No. 1	211 00
Nicola River, Spence's Bridge	1,128 86
Popcum	287 25
Spence's	451 80
Voght	122 00
Walhachin	31,215 56
General	105 40
Total	$ 54,665 32

YMIR DISTRICT.

Bear Creek	$ 770 83
Beaver Creek	147 00
Bird Creek	54 00
Blueberry Creek	1,353 93
Burnt Flat-Sheep Creek	716 69
Canyon City	1,586 02
China Creek	339 76
Columbia River Trail	125,136 85
Carried forward	$130,105 08

Brought forward $130,105 08

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Continued.*

YMIR DISTRICT.—*Concluded.*

Crescent Valley	502 50
Dog Creek	184 12
Erie-Sayward	1,038 48
East Fork, over Relief Road	318 05
Fairview	29 50
Forty-nine Creek Road	307 50
Forty-nine Creek-Granite Road	113 30
Giveout	130 92
Goat River, Creston	5,951 83
Graham Landing, South Arrow Park	632 94
Granite Road	846 45
Grohman Creek	87 00
Hall Creek	1,605 70
Hall Mines Road	218 38
Harrop-Procter Road	14 00
High Street, Fairview	652 52
Inonooklin-Edgewood	3,330 91
Kelly Creek, Fruitvale	3,480 83
Kokanee	1,057 85
Mosquito	210 24
Mill Creek	151 25
Needles-Fire Valley Road	217 50
Nelson-Balfour	275 00
Nelson-Balfour-Willow Point	72 00
Nocks	78 00
Procter Creek	98 16
Queen-Yellowstone Road	1,106 05
Red Mountain Road, Nos. 2 and 3	232 75
Reith	398 15
Reliance	6 00
Salmon River, Erie-Salmo	1,454 06
Salmo-Erie Road	99 23
Sand Creek	298 00
Sayward-Trail	58 00
Schofied-Fourth Street, Creston	1,358 22
Selous Street, Fairview	335 60
Shoreacres	55 56
Silver King Road	35 50
Slocan River	59 00
Slough, Creston	4 50
Smelt	9 19
South Road, Arrow Park	1,041 13
Stoney Creek, No. 14	245 50
Survey, proposed building, Nelson	66 50
Sunshine Bay Road	6 00
Squirrel Creek Road	247 99
Syringa Creek	688 50
Sheep Creek	34 00
Taghum	128 35
Yellowstone	561 40
Ymir-Salmo Road	254 95
Grubbing bank, Dog Creek	197 50
General supplies	357 40
General superintendence	3,314 47
Total	$164,363 51

BRIDGES THROUGHOUT THE PROVINCE. (Vote 83.)—*Concluded.*

BRIDGES (GENERAL).

Bridges (general)	$ 5 25
Engineer in Charge	4,206 24
Bridge Inspector	2,774 80

NEW WESTMINSTER BRIDGE. (Vote 83.)

	Vote.	Expenditure.
New Westminster (maintenance)	$ 8,500 00	$ 6,069 92

BRIDGE-TENDERS. (Vote 83.)

	Vote.	Expenditure
Canoe Pass	$ 720 00	$ 720 00
Eburne	720 00	720 00
Kamloops	450 00	420 00

PROTECTION OF RIVER BANKS.

CHILLIWACK DISTRICT.

Camp Slough	$ 987 10
Fraser River-Grennell Slough	1,907 85
Interception Ditch	87 50
Jesse's Landing	153 50
Matsqui	148 55
Total	$ 3,284 50

COWICHAN DISTRICT.

Chemainus River and breakwater	$ 783 81
Koksilah River and breakwater	926 07
Total	$ 1,709 88

CARIBOO DISTRICT.

Barkerville (bulk-head)	$ 679 25
Carson's Ranch (cribbing)	300 00
Quesnel (crib-work)	491 50
Total	$ 1,470 75

CRANBROOK DISTRICT.

Breakwater, Fort Steele-Mission Road	$ 2,267 20
Bridge, Westport	5,882 64
St. Mary's River (breakwater)	4,551 75
Total	$ 12,701 59

DELTA DISTRICT.

Gulf Dyke	$10,000 00

PROTECTION OF RIVER BANKS.—*Concluded.*

Fernie District.

Crib-work, McDouglas	$ 1,586 05
Crib-work, Natal	48 75
General	6 50
Michel	3,219 03
River-work, Elko	178 00
River-work, Fernie	1,471 68
River-work, Hosmer	843 05
Total	$ 7,353 06

Kamloops District.

Eagle River	$ 4,568 11
Mattress, Malakwa	3 65
Total	$ 4,571 76

Kaslo District.

Crawford Creek	$ 1,919 43

Okanagan District.

Mission Creek, Kelowna	$ 679 25

Revelstoke District.

Columbia River, Revelstoke	$ 1,128 90
Illecillewaet River	13,996 99
Total	$ 15,125 89

Richmond District.

Steveston	$ 7,000 00

Slocan District.

Carpenter Creek	$ 2,152 36
Springer Creek	303 00
Total	$ 2,455 36

Ymir District.

Clearing Goat River	$ 924 74
Narrows Creek	58 50
North Fork, Salmon River	1,918 61
Salmon River, improvements	1 50
Total	$ 2,903 35
Grand total	$ 71,174 82

TENDERS RECEIVED AND CONTRACTS AWARDED.

1st April, 1911, to 31st March 1912.

SCHOOLS.

WORK AND TENDERERS.	AMOUNT.	REMARKS.
BURTONDALE—One-room, small:		
A. H. Poole	$ 3,090 00	
Second tenders:		
A. H. Poole	3,133 00	
Third tenders:		
A. H. Poole	2,470 00	Awarded.
J. Dancy & Co	2,856 00	
COLUMBIA GARDENS—One-room, large:		
A. J. Watson	2,800 00	Awarded; completed.
J. Dancy & Co	3,280 00	
CLOVERDALE—Four-room:		
W. Cooper	8,250 00	Awarded; completed.
F. P. Rogers	8,950 00	
Catherwood & Slack	9,750 00	
M. B. Martinsen	10,290 00	
Thos. Turnbull	10,900 00	
COURTENAY—One-room, large:		
T. Palmer	2,745 00	Awarded; completed.
A. Kerton	3,000 00	
CRAIGFLOWER—Two-room:		
W. M. Ross	5,315 00	Awarded; completed.
H. A. English	5,375 00	
CARSON—One-room, large:		
Allen & Norris	2,962 00	Accepted; completed.
R. Gaw	3,295 00	
DENMAN ISLAND—One-room, large:		
T. Palmer	2,696 00	Awarded; completed.
Jas. Carthew	2,900 00	
DEWDNEY—One-room, large:		
Catherwood & Slack	2,700 00	Awarded; completed.
T. Turnbull	2,850 00	
A. Cederburg	3,000 00	
J. Newbury	3,140 00	
ELLISON—Two-room:		
H. M. Raymer	8,000 00	
Second tenders:		
J. A. Bigger	7,250 00	Awarded; completed.
H. M. Raymer	7,800 00	
EXTENSION—Addition:		
D. Ferguson	1,250 00	Awarded; completed.
H. A. English	2,300 00	
EDITH LAKE—One-room, large:		
A. J Watson	3,050 00	Awarded: completed.
F. D. Woodward	8,042 00	

Schools.—*Continued.*

Work and Tenderers.	Amount.	Remarks.
French Creek—One-room, large:		
T. Palmer	$ 3,100 00	Awarded; completed.
El-Oso Paving Co	3,400 00	
A. Atherton	5,734 90	
Gleneden—One-room, large:		
C. Mensing	2,450 00	Awarded; completed.
Riddell & Fleming	2,485 00	
Gibbard & Boutwell	2,500 00	
J. L. Jackson	2,500 00	
Hope—One-room, large:		
Newbury & Smallemberg	2,650 00	Awarded; completed.
T. Turnbull	2,950 00	
D. J. McRae	3,875 00	
Happy Valley—One-room, small:		
Grey & Skelton	2,500 00	Awarded; completed.
Smith Bros	3,570 00	
Headquarters—One-room, large:		
A. Kerton	3,000 00	Awarded; completed.
T. Palmer	3,150 00	
Milne & Willard	4,169 00	
Johnston Road:		
A. Hogg	2,550 00	Awarded; completed.
A. Cederburg	2,675 00	
J. Newbury	2,725 00	
Tarvis & Barton Bros	3,475 00	
A. W. Ilott	4,225 00	
Lytton—One-room, large:		
D. J. McRae	3,950 00	Not awarded.
Lynn Valley—Four-room:		
F. P. Rogers	8,275 00	
Jay & Mitchell	8,335 00	
N. Y. Cross	9,440 00	
Long Lake—One-room, small:		
F. D. Woodward	2,200 00	Awarded; completed.
Lumby—Two-room:		
D. W. Wilson	6,750 00	Awarded.
J. O. Deschamps	7,449 00	
J. P. Craib	7,707 00	
T. E. Crowell	7,955 00	
Merritt—Four-room:		
W. Cooper	8,380 00	Awarded; completed.
J. Boch	9,263 00	
S. Hyland	9,958 00	
Normal School, Vancouver—Lodge:		
Hopper & Ruffel	4,375 00	Not awarded.
F. P. Rogers	4,663 00	
J. E. Wright	5,475 00	
Normal School, Vancouver—Gymnasium:		
El-Oso Paving Co	5,661 00	Awarded; completed.
J. E. McPhalen	7,700 00	
J. H. Vickers	7,879 00	
Jackson & Vinall	10,146 50	
Fraser, Williams, Stitt, & Matherson	11,000 00	

SCHOOLS.—*Continued.*

WORK AND TENDERERS.	AMOUNT.	REMARKS.
NORTH COWICHAN—Two-room:		
H. A. English	$ 4,825 00	Awarded; completed.
J. Hammond	6,249 00	
J. N. Campbell & O. G. Brown	5,750 00	
NEW MICHEL—One-room, large:		
A. J. Watson	5,060 00	Awarded; completed.
NOB HILL—One-room, small:		
J. Carthew	2,475 00	Awarded; completed.
PORT ALBERNI—Two-room:		
Wood & Story	6,100 00	Not awarded.
J. A. MacIntyre	7,340 00	
Second tenders:		
W. M. Ross	6,475 00	Not awarded.
Wood & Story	6,700 00	
T. Palmer	6,950 00	
J. A. MacIntyre	6,995 00	
Third Tenders:		
Newbury & Ashley	5,800 00	Awarded.
Wood & Story	6,700 00	
T. Palmer	6,800 00	
J. A. MacIntyre	6,975 00	
A. Atherton	8,200 00	
R. W. Slenslip	9,000 00	
PORT HAMMOND—One-room:		
W. J. Percy	2,060 00	Not awarded.
Second tender:		
A. Cederburg	3,900 00	Awarded; completed.
Catherwood & Slack	4,350 00	
T. Turnbull	4,650 00	
J. Riddle	6,950 00	
STEWART—Two-room:		
L. Watmough	7,700 00	Awarded; completed.
Stephens & Todd	8,119 00	
J. A. Lade	8,500 00	
Bell & Fraser	11,291 00	
Munro & Robinson	14,885 00	
SPENCES BRIDGE—One-room:		
Catherwood & Slack	2,750 00	Awarded; completed.
A. J Watson	3,050 00	
W. Cooper	3,824 00	
SOUTH WELLINGTON—One-room, large:		
H. A. English	3,115 00	Awarded; completed.
J. Green	3,475 00	
D. Ferguson	3,489 45	
WEST SALMON ARM—One-room, large:		
Gibbard & Boutwell	2,250 00	
Charles Mensing	2,350 00	Awarded; completed.
WARDNER—One-room, large:		
A. McLean	2,290 00	Awarded; completed.
A. J. Watson	3,150 00	
H. Clark	3,466 51	
D. J. Johnson	4,500 00	

Schools.—*Concluded.*

Work and Tenderers.	Amount.	Remarks.
Desks—Supply for year ending March 31st, 1912:		
Clarke & Stuart Co., Ltd	$5,375 00	Awarded.
Smith, Davidson & Wright	5,386 00	
Donelly, Watson & Brown, Ltd	5,403 80	
E. G. Parnell	5,581 00	
Weiler Bros	6,012 00	
Geo. Powell & Sons	5,850 00	
Hudson's Bay Co., Vancouver	5,875 00	

Government Buildings.

New Westminster Court-house—Office fittings:		
T. J. Trapp, & Co	$ 5,500 00	Awarded.
Lees, Ltd	6,785 00	
Modern Office Supply Co	6,818 60	
Grand Forks Court-house:		
R. Gaw	44,037 70	Awarded; completed.
J. Daney	51,700 00	
A. J. Watson	51,550 80	
Parliament Buildings—Extension.		
D. Matheson	885,755 00	
Sound Construction Co	931,000 00	
McDonald & Wilson	970,250 00	Awarded.
Smith & Sherborne	977,300 00	
J. K. Skene Co	985,000 00	
Westholme Lumber Co	995,000 00	
Armstrong, Morrison Co	1,008,641 00	
T. Catterall Co., Ltd	1,055,682 00	
Provincial Home, Kamloops—East Wing:		
Johnston & Co., Ltd	45,529 00	Awarded; completed.
T. Turnbull	63,900 00	
Revelstoke Court-house:		
Foote & Pradolini	118,520 50	Awarded.
E. C. Fromey	122,291 00	
Broley & Martin	125,700 00	
W. G. Gillett	129,850 00	
Vancouver Court-house—Grading of grounds:		
Bruce & Sweatman, Ltd	4,875 00	
Curry & Burruss	5,450 00	
El-Oso Paving Co	4,800 00	
Second tenders:		
R. McLean & Co	16,600 00	Awarded.
El-Oso Paving Co	19,211 00	
Vernon Court-house:		
J. Burns & Son	174,600 00	Awarded.
A. J. Watson	182,974 00	
J. Hastie	208,000 00	
T. E. Crowell	220,107 55	
H. Chase	222,234 66	
Westholme Lumber Co	248,000 00	

GOVERNMENT BUILDINGS.—*Concluded.*

WORK AND TENDERERS.	AMOUNT.	REMARKS.
PROVINCIAL UNIVERSITY—Clearing grounds:		
Sekin & Tezaloeff	$ 7,000 00	
Sekmoeff, Tezaloeft & Karginoff	7,500 00	
M. P. Cotton & Co., Ltd	10,000 00	Awarded ; completed.
Peter Alkhavik	10,500 00	
Westholme Lumber Co	12,500 00	
Burrard Construction Co., Ltd	12,500 00	
El-Oso Paving Co., Ltd	13,250 00	
Romono Pinto & Co	13,750 00	
Grant & Co	15,750 00	
Vancouver Machinery Depot, Ltd	17,000 00	
G. H. Webster	17,750 00	
Thompson & Stewart	19,750 00	
Moore & Pethick	21,000 00	
R. S. & N. B. Forbes	25,000 00	
A. B. Besaloff	9,000 00	
Laplaca Bros	19,000 00	
Anderson & Logoff	7,750 00	
J. J. McKay	8,875 00	
W. S. Prescott	9,250 00	
W. A. Kupoff	9,250 00	
K. Logoff	9,350 00	
Martin & Dongworth	9,600 00	
J. B. Saint	11,960 00	
Waugh & Bailey	12,950 00	
Nick Casco	14,000 00	
McAlpine, Robertson Construction Co	15.000 00	
Cook & Cateau	14,700 00	
T. O. Mackay & Co	24,375 00	

GAOLS.

ARROWHEAD LOCK-UP:		
G. W. Taylor	$2,740 00	Not awarded.
G. D. Shaw	2,900 00	
S. Irvin	3,350 00	
A. C. Hancock	4,994 00	
El-Oso Paving Co	5,800 00	
HOPE LOCK-UP:		
D. J. McRae	3,400 00	Awarded ; completed.
T. Turnbull	4,150 00	
D. McKim	5,250 00	
NASS RIVER LOCK-UP:		
W. Sibbald	2,770 00	Awarded ; completed.
Flewin Bros	3,616 60	
QUATHIASKI COVE LOCK-UP:		
T. Stedham	4,475 00	
Second tenders:		
P. Rowe	2,712 00	Awarded.
F. P. Rogers	2,875 00	
H. A. Bull	3,400 00	
A. Nye	3,720 00	
T. Palmer	4,150 00	
PRISON FARM, BURNABY:		
W. G. Gillett	319,353 60	
G. H. Webster	356,000 00	
Westholme Lumber Co	370,283 00	
Smith & Sherborne	370,900 00	

Gaols.—*Concluded.*

Work and Tenderers.	Amount.	Remarks.
Prison Farm, Burnaby—*Concluded:*		
Norton Griffith Steel Construction Co	$379,991 00	
McDonald & Wilson	385,250 00	
J. Hastie	394,000 00	
Baynes & Horie	430,000 00	
Armstrong, Morrison & Co	480,114 00	
Second tenders:		
Smith & Sherborne	267,700 00	Awarded.
Armstrong, Morrison Co	295,664 00	
D. Matheson	299,650 00	
G. H. Webster	326,500 00	
Moore & Pethick	349,000 46	

Fuel.

Firm.	Lump Coal, screened and sacked.	Price per ton of 2,240 lb.	Remarks.
J. Kingham	Best Wellington	$6 65	Accepted.
Kirk & Co., Ltd	" "	6 90	
Hall & Walker	" "	7 00	
Victoria Fuel Co	" "	7 00	

Ferries.

Work and Tenderers.	Amount.	Remarks.
Mission Ferry:		
Vancouver Machinery Depot	$8,070 00	Awarded.
Westminster Marine Ry. Co	9,200 00	

Bridges.

Work and Tenderers.	Cables and Accessories, Per Lineal Foot.				Remarks.
	2⅜"	1¾"	1½"	1¼"	
Churn Creek:					
A. G. Langley & Co., Ltd	$ 1 00	$ 54	$ 40	$ 29	
Sockets for these	102 00	93 10	59 30	53 70	
G. Gardiner Johnson Co....Lump sum of $3,450	.....	.....	.....	.....	Awarded.
Sockets for these " " 675	.....	.....	.....	.....	
Frank Darling & Co	62 56	34 19	24 36	17 20	
Sockets for these	107 25	91 15	61 10	58 10	
Colin F. Jackson & Co	78 50	46 20	36 00	25 80	
Sockets for these	95 00	77 00	54 00	48 00	

BRIDGES—*Concluded.*

WORK AND TENDERERS.	AMOUNT.	REMARKS.
CHURN CREEK—Metalwork:		
A. G. Langley & Co., Ltd	$6 68 per lb.	Awarded.
CHILCOTIN BRIDGE—Metalwork:		
A. G. Langley & Co., Ltd	6 75 "	Awarded.
TRAIL BRIDGE:		
Substructure metal:		
Cleveland Bridge & Engineering Co., Ltd	5 01 "	Awarded.
A. G. Langely & Co., Ltd	5 60 "	
MacDonald, Godson Co., Ltd	5 82 "	
Algoma Steel Bridge Co.	5 95 "	
Superstructure and erection of metal:		
Armstrong, Morrison & Co., Ltd	$93,902 50	Awarded.
E. E. Davis & Co. Erection of metal only	13,597 50	

CORRESPONDENCE: Letters inward, 12,688; letters outward, 13,483. Vouchers approved and passed, 22,182.

REPORT OF INSPECTOR OF DYKES.

Office of Inspector of Dykes,
Victoria, B.C., December 31st, 1912.

Hon. Thomas Taylor,
Minister of Public Works, Victoria, B.C.

Sir,—I have the honour to present for your consideration my annual report with reference to the maintenance and management of the Chilliwack, Matsqui, Maple Ridge, Coquitlam, and Pitt Meadows Dyking Districts for the fiscal year ending September 30th, 1912.

The following is a record of the maximum freshet heights in the Fraser River, as registered by gauges at Chilliwack, Matsqui and Pitt River, for thirteen consecutive years from 1900 to 1912, inclusive. As the freshet of 1894 was the highest of which there has been any record, the flood-level for that year is also given. The grade of the crown of the dykes was based on the 1894 H.W.M., and fixed at an elevation approximately 2 feet above that level.

Year.	Chilliwack.		Matsqui.		Pitt River.	
	Date.	H.W.	Date.	H.W.	Date.	H.W.
1894..	June 5.....	75.85	June 6.....	35.32	June 6.....	14.75
1900..	" 27.....	72.00	" 27.....	31.00	" 28.....	12.00
1901..	" 2.....	70.80	" 3.....	29.05	" 3.....	10.75
1902	" 2 / July 5	68.35	July 6.....	27.15	July 6.....	9.75
1903..	June 18.....	72.85	June 18.....	31.80	June 18.....	12.75
1904..	" 9.....	68.50	" 11.....	26.95	" 12.....	9.82
1905..	" 11.....	68.05	" 12.....	25.50	" 12.....	8.75
1906	" 9.....	65.40	" 9.....	22.10	" 9.....	7.70
	July 13.....	66.00	July 13.....	22.70	July 12.....	7.40
1907..	June 5.....	69.50	June 5.....	27.00	June 5.....	9.70
1908..	" 14.....	71.20	" 16.....	29.60	" 15.....	11.50
1909..	" 16.....	69.10	" 17.....	27.40	" 18.....	10.20
1910	May 30.....	66.70	May 31.....	25.10	" 1.....	8.90
	June 12.....	66.70	June 17.....	24.85	" 12.....	8.80
	" 16.....	67.10				
1911..	" 18 and 19.....	70.30	" 19.....	28.90	" 19.....	10.70
1912..	" 26.....	67.45	" 26.....	25.50	" 27.....	9.20

As will be seen by reference to the above table, the height of the freshet this year was slightly below the average. This result was due to the exceptionally cool weather which prevailed over the areas tributary to the Thompson and Fraser Rivers during the months of June and July.

Although the maximum height of the freshet was below the average, yet, owing to the fact that the water continued for a longer period than usual at too high a stage to permit the gates to open, the length of the pumping season was correspondingly increased.

Statement showing the Annual Assessment on Capital Account, the Assessment on Maintenance Account for the Year ending September 30th, 1912; also Rate of Assessment per Acre.

Dyking District.	Annual Assessment on Capital Account.	Maintenance Assessment, 1912.	Acreage.	Rate per Acre.		Total.
				Capital Account.	Mainten'ce Account.	
Chilliwack.....	$10,000 00	$3,767 82	$19,017 10	$0 52$\frac{6}{10}$	$0 19$\frac{8}{10}$	$0 72$\frac{4}{10}$
Matsqui.....	6,250 00	5,419 37	10,196 19	0 61$\frac{3}{10}$	0 53$\frac{2}{10}$	1 14$\frac{5}{10}$
Maple Ridge, high land.....	1,349 05	849 93	2,613 93	0 51$\frac{6}{10}$	0 32$\frac{5}{10}$	0 84$\frac{1}{10}$
" low land.....	5,020 75	3,163 21	5,778 83	0 86$\frac{9}{10}$	0 54$\frac{7}{10}$	1 41$\frac{6}{10}$
Coquitlam.....	2,899 40	2,819 44	3,220 70	0 90	0 87$\frac{5}{10}$	1 77$\frac{5}{10}$
Pitt Meadows, Tract No. 1...	890 77	1,235 11	1,174 78	0 75$\frac{8}{10}$	1 05$\frac{1}{10}$	1 80$\frac{9}{10}$
" " 2...	852 63	1,281 60	1,124 49	0 75$\frac{8}{10}$	1 14	1 89$\frac{8}{10}$

The following is a detailed statement of expenditure on maintenance account from 1st October, 1911, to 30th September, 1912 :—

SERVICE.	DYKING DISTRICT.					
	Chilliwack	Matsqui.	Maple Ridge.	Coquitlam.	Pitt Meadows. Tract No. 1	Pitt Meadows. Tract No. 2
Pumping Plant—						
Fuel on hand, 1st Oct., 1911	$ 36 00	$1,875 00	$ 342 75	$ 394 00	.....	$ 74 65
Less transferred to Coquitlam	.....	.....	120 00	.....	.....	.....
			$222 75			
Fuel purchased during 1912	40 00	.....	.....	120 00	.....	293 60
Electric power purchased	.....	1,038 72	389 48	374 77	$18 38	.....
Wages	141 00	806 72	421 78	866 36	215 37	287 74
Repairs and supplies	107 12	143 71	70 91	25 57	7 25	175 17
Insurance	.....	187 50	70 00	30 61	8 76	17 50
Rent of boiler	.....	.....	.....	100 00	.....	.....
Amount paid on account of interest, Sinking Fund for installation of electric power	.....	629 94	542 58	412 72	396 38	
	$324 12	$4,681 59	$1,717 50	$2,324 03	$646 14	$848 66
Credit by fuel on hand 30th Sept., 1912	72 00	1,875 00	177 00	216 75	.....	76 86
Total cost of pumping	$252 12	$2,806 59	$1,540 50	$2,107 28	$646 14	$771 80
Maintenance & manageme't of dyke—						
Repairs, including wages of caretaker	$1,114 11	$1,240 45	$734 01	$355 96	$146 57	$100 54
Repairs to Bonds Offtake Ditch	.....	.....	283 47	.....	.....	.....
Cleaning out dyke ditch	.....	.....	543 87	.....	.....	.....
Brushing dyke	271 84	204 50	27 00	74 73	314 16	283 80
Materials for fencing	.....	237 00	.....	.....	.....	.....
Bounty paid on rats	.....	.....	87 05	28 50	15 00	14 50
Plant	.....	.....	50 73	17 76	10 34	14 19
Salary of Inspector of Dykes, proportionate amount	925 44	497 64	408 48	156 60	57 12	54 72
Travelling expenses of Inspector of Dykes, proportionate amount	178 22	114 58	87 73	43 81	13 01	10 85
Salary of clerk and extra clerical work, proportionate amount	649 57	315 61	259 30	89 80	32 77	31 20
Collection commission and exchange on bank drafts	348 52	.....	.....	.....	.....	.....
Expenses, Court of Revision	28 00	3 00	.....	.....	.....	.....
			$2,481 64	$767 16		
Credit by sale of old scow-house	.....	.....	9 00	5 00	.....	.....
Credit for rent of right-of-way by Pitt River Lumber Co	.....	.....	.....	50 00	.....	.....
	$3,515 70	$2,612 78	$2,472 64	$712 16	$588 97	$509 80
Total expenditure	$3,767 82	$5,419 37	$4,013 14	$2,819 44	$1,235 11	$1,281 60

PUMPS.

Owing to the large item in maintenance charges entailed in the cost of operating the pumps, the question of reducing this expense by the adoption of electric power in lieu of steam has been under consideration since the establishment of extensive power plants has held out a prospect of its being practically solved.

As the first cost of purchasing and installing new electrically driven pumping plants would form a heavy item of expense, and as under the provisions of the "Dyking Assessments Adjustment Act, 1905," any money advanced from the Treasury in connection with dyking operations was required to be collected and repaid in the same year as that in which the

expenditure occurred, an amendment to the Act was introduced by the Government at the last session of the Legislature, by which the repayment of any unusual expenditure can be extended over a number of years. The effect of this amendment is to enable the purchase and installation of electrically driven pumping plants, in lieu of the old plants operated by steam, to be carried out without unduly increasing the yearly cost of maintenance; and the successors of the present land-owners, who will equally, with the latter, benefit by these improvements, will also bear a portion of the cost.

With a view of obtaining electric power in lieu of steam for operating the pumps, quotations were invited from the B.C. Electric Railway Co. and from the Western Canada Power Co. for furnishing the necessary power and equipment for operating the pumps in the Matsqui, Maple Ridge, Coquitlam, Tract No. 1 and Tract No. 2 Pitt Meadows Dyking Districts.

As a result, negotiations were entered into with the Western Canada Power Co., so that as soon as the amendment above referred to was made a contract was let to that company for installing electrically driven plants at Matsqui, Maple Ridge, Coquitlam, and Pitt Meadows No. 1 Districts.

The repayment of the cost, together with interest at 5 per cent., was extended over a period of twenty years, which is the estimated life of the plant, allowing 5 per cent. for depreciation per annum. As these plants are in operation only for about three months in the year, the above estimate is well within the limits of safety.

The following is a statement showing the amount expended to date, for equipment and installation, in the districts named, together with the annual charge to pay off the cost, including interest and sinking fund, in twenty years:—

Dyking District.	Expenditure.	Annual Charge Over Twenty Years.
Matsqui	$8,819 14	$629 94
Maple Ridge	7,596 15	542 58
Coquitlam	5,778 05	412 72
Pitt No. 1	5,549 28	396 38

The following is a comparative statement showing the difference in the cost of operating the pumps under the old system in 1911 and under the new system in 1912, the length of the pumping season in each instance being approximately three months:—

Dyking District.	Cost of operating Pumps.		Difference in favour of Electric Power.
	1911.	1912.	
Matsqui	$5,446 50	$2,806 59	$2,639 91
Maple Ridge	3,158 30	1,540 50	1,617 80
Coquitlam	3,389 21	1,909 15	1,480 06
Totals	$11,994 01	$6,256 24	$5,737 77

In the above items of cost for 1912 are included also the first annual instalments on account of interest and sinking fund to pay off the capital charge in twenty years at 5 per cent. per annum.

The difference in cost above mentioned is due not only to the lesser cost of electrical energy as compared with steam for operating the pumps, but also to the saving in wages that is effected on account of a smaller staff being required through the adoption of electrical power.

The contract price for the supply of electrical energy is at the rate of 1 cent per kilowatt hour, the company at its own expense to erect and maintain the distributing-lines and transformers necessary for the supplying electrical energy to each of the pumping-stations in all of the said dyking districts.

SLUICE-GATES.

As the existing gates, which are constructed of wood, have been in use for from twelve to fourteen years, the question of their renewal is one that cannot, with safety be longer delayed.

After the amendment to the Act, previously referred to, providing for an extension of time for the repayment of any unusual expenditure was made, it was decided to replace a number of wooden sluices with reinforced-concrete sluices as soon as practicable. As these structures are of a permanent character, the time for repayment was fixed so as to correspond with the date of the final payment to the Government of the capital charge assessed against the lands in the dyked districts.

This allows an extension of time of thirty-two years in which to pay off the original cost, including sinking fund and interest, an arrangement by which the large expenditure involved in carrying out these works will add but a comparatively slight increase to the annual cost of maintenance.

The first work to be undertaken after the new regulations came into force was the construction of a reinforced 4-gate concrete sluice to replace the old wooden gate-sluice in Upper Coquitlam, near Boville Slough.

In response to an advertisement for tenders for the work, February 23rd, 1912, bids were received as follows from the contractors named:—

L. Frank Hay	$5181 20
R. H. Traverse	4024 10
M. P. Cotton	3461 80
Mackenzie, Broadfoot & Johnston	3108 40

The tender of Messrs. Mackenzie, Broadfoot & Johnston, being the lowest, was accepted, and the work was completed before the time of the ensuing high water.

On account of extra work performed, which was not included in the contract, the total cost was $3,632.37. The repayment of this sum, together with sinking fund and interest at 5 per cent. per annum, extended over thirty-two years, requires a yearly payment of $198.13.

In addition to the sluice-gate above referred to, tenders were requested to be submitted on September 12th, 1912, for the construction of five reinforced-concrete sluices, as follows, viz.: one 4-gate in Maple Ridge District, near the mouth of the Lillooet River; one 2-gate in the Coquitlam District, near the ferry; one 4-gate in Coquitlam, near the mouth of Pitt River; one 2-gate in Pitt Meadows District, Tract No. 1, near the junction of the N. and S. Lillooet; one 2-gate in Pitt Meadows District, Tract No. 2, near the mouth of the Lillooet River.

Tenders for the construction of the sluices above designated were received as follows:—

Waugh, Misner & Bailey	$21,688 35
Walter H. Mueller	20,278 20
James Reid Todd	21,085 00
MacKenzie, Broadfoot & Johnston	11,614 50

The tender of Messrs. MacKenzie, Broadfoot & Johnston, being the lowest, and as they had satisfactorily performed the work on the concrete sluice previously constructed by them, the contract was let to that firm.

The work of construction is now well under way, and it is expected that one or two sluices, in addition to those included in the contract, will be replaced with reinforced-concrete structures before the season of next high water.

In addition to the pumping-stations where electrical plants have already been installed, it is proposed, in compliance with the wishes of all the land-owners in tract No. 2, Pitt Meadows District to have an electric plant installed at that station before the next high water. The existing plant is operated by gasolene, and as the price of that commodity has been steadily increasing during the last few years, and there is every prospect of its continuing to do so, the saving in the cost of electrical energy as a motive power, as compared with gasolene, will result in a permanent reduction in the cost of pumping operations. As the present plant is in good condition, it can, no doubt, be disposed of at a price which will materially offset the cost involved in making the required alterations in the system of operation.

I have, etc.,

E. A. WILMOT,
Inspector of Dykes.

REPORT OF CHIEF INSPECTOR OF MACHINERY.

New Westminster, B.C., January 2nd, 1913.

The Honourable the Minister of Public Works,
Victoria, B.C.

Sir,—In accordance with the provisions of the "Boilers Inspection Act," I have the honour to submit to you the Eleventh Annual Report of the operation of steam-boilers and machinery inspection service for the year ending December 31st, 1912.

The personnel of the service at present consists of the Chief Inspector, twelve District Inspectors, one clerk, and three stenographers and typists, located as follows: Chief Inspector, three Inspectors, one clerk, and one stenographer and typist at the Head Office in New Westminster for District A; three Inspectors in Victoria for District B and one stenographer and typist; one Inspector in Nelson for District C; four Inspectors and one stenographer and typist in Vancouver for District D; and one Inspector in Revelstoke for District E. The additional Inspectors provided for in the Estimates, 1912, commenced duty July 8th, 1912. Both these men went into the Victoria District, Mr. Bath, of that district, being transferred to Vancouver.

The following is a summary of the routine work performed in the office of the Chief Inspector during the year, exclusive of inspections and engineers' examinations, details of which will be found in the report of the Inspectors for the different districts and that of the Chief Examiner:—

Letters inward	6,431
Letters outward	6,704
Telegrams inward	116
Telegrams outward	110
Inspectors' monthly reports examined	132
New designs examined, calculated, and reported on	272
Amendments to designs calculated and reported on	167
Fees collected for designs	$1,165
Fines collected for infractions of Act	600
Number of miles travelled by Chief Inspector	2,580

I am pleased to again be able to report that there have been no boiler explosions during the year. The number of accidents to persons and machinery are fully set forth in the District Inspectors' reports. It will be noted that there were three fatal accidents, all of which occurred in District B. None of these accidents, however, were attributable to any defect in the machinery. In one case the engineer's clothing was caught by a revolving shaft while oiling the machinery, and in another case a donkey-engine which was being moved turned over and killed a workman who was alongside. In the third case repairs were being made to one of a battery of boilers, the other boiler being under steam; the main steam-pipe between the two boilers was provided with two stop-valves; these valves for some unaccountable reason were not closed before the men commenced to take apart the main steam-pipe next to the boiler which was being repaired. As soon as the bolts were loosened in the end of the pipe, part of it blew out, killing the pipe-fitter instantly and injuring the engineer.

The number of new boilers inspected during the year was 621, as compared with 287 for 1911. The number taken out of service as unfit for further use was twenty-eight, as compared with thirty-four for the year 1911.

The number of second-hand boilers imported is ninety-eight, as compared with 119 for the year 1911; eighty-five of these were from the United States and thirteen from Eastern Canada. The total number of new boilers now on our books, after deducting those taken out of service, is 4,651. Of these, 2,638 were inspected during the year. Many of those not inspected were not in operation during the whole or part of the year.

The number of plates tested for new boilers was 968, of which eight were condemned. This is by far the best showing of plates that has been made since the Act came into operation.

The cruiser "Adanac" was used for inspections in Districts A, B, and D. The boat was run through the season very successfully without a single accident. Total number of miles run was 3,659; the coal-oil used for the engine, lamps, and all other purposes was 1,485 gallons; the average consumption per mile for all purposes being 0.405 gallons, and the average consumption for the engine 1.1 pint per horse-power per hour.

In conclusion, I desire to thank you for your active support of this office, and particularly for the authority given for the purchase of instruments and apparatus for our metallographic laboratory. I also wish to thank all the members of the staff for the efficient manner in which they carried out their work during the year.

There is attached hereto a summary of the total work done by the District Inspectors for the year ending December 31st, 1912, as well as their reports and a summary of work done by each Inspector.

Trusting this report will meet with your approval,

I have, etc.,
JOHN PECK,
Chief Inspector of Machinery.

SUMMARY OF TOTAL WORK DONE BY DISTRICT INSPECTORS IN 1912.

Number of drawings and specifications calculated for new boilers	441
" boiler-plates inspected	968
" boiler-plates rejected	8
" boilers built under inspection in British Columbia	139
" boilers built under inspection in Eastern Canada	125
" boilers built in Eastern Canada not under inspection	152
" boilers built in England not under inspection	3
" new boilers inspected built in United States	158
" new boilers inspected built in British Columbia	69
" new boilers inspected (total)	621
" boilers imported from Eastern Canada (second-hand)	13
" boilers imported from United States (second-hand)	85
" boilers unclassified	99
" first inspections	770
" inspections, external and internal	2,672
" internal inspections only	54
" external inspections only	321
" special inspections after repairs	154
" visits in addition to inspections	1,104
" boilers subjected to hydrostatic test	2,501
" boilers on which pressure was reduced	98
" boilers unsafe without extensive repairs	78
" boilers repaired under Inspector's directions	143
" boilers considered unfit for further use	16
" accidents to engines and boilers	52
" accidents resulting in personal injury (not fatal)	5
" accidents resulting in personal injury (fatal)	3
" investigations	32
" inspections completed	2,638
Total horse-power of boilers inspected	137,166
Number of defects observed as per summary	3,138
Number of defects considered dangerous	733
Inspection fees earned	$ 22,926.45
Inspection fees collected	22,113.46
Miles travelled by the Inspector	52,164
Letters inward	6,266
Letters outward	7,027
Telegrams inward	129
Telegrams outward	120
Boilers taken out of service	28

Summary of Defects observed.

Nature of Defects.	Number.	Dangerous.
Boilers without safety-valves	4	4
Boilers with safety valves deficient in area	27	6
Boilers with safety-valves inoperative	4	3
Boilers with safety-valves overloaded	9	4
Boilers with safety-valves defective in construction	89	28
Boilers without pressure-gauges	1	..
Pressure-gauges inoperative	21	17
Pressure-gauges defective	276	35
Cases of insufficient staying or bracing	27	20
" defective stays	48	29
" broken rivets	10	..
" defective riveting	22	7
" broken stays or braces	25	6
" loose stays or braces	26	1
Boilers damaged by low water	13	4
Defective settings	130	38
Boilers with fractured plates	41	6
" laminated plates	4	1
" burned plates	32	11
" blistered plates	5	3
Cases of sediment on fire-sheets	126	27
" internal corrosion	99	28
" scale or encrustation	183	28
" internal grooving	8	4
" external corrosion	192	32
" defective tubes	92	36
" defective feed-water arrangement	67	15
" broken feed-valves	3	..
Serious leakage around tube-ends	167	32
Serious leakage in rivet-joints	48	16
Defective blow-off pipes or cocks	147	50
Defective water-gauges	55	22
Broken blow-off pipes or cocks	26	12
Water-columns without blow-outs	53	20
Cases of broken test-cocks	247	5
Connections to water-columns without valves	70	30
Neutral sheets not stayed	23	14
Neutral sheets improperly stayed	8	3
Furnaces out of shape	6	5
Boilers without fusible plugs	99	11
Boilers low at front end	66	3
Cases of serious leakage of fittings	60	5
Number of hand-holes, doors having bolts and dogs burned off	28	18
Defects in engines	41	18
Boilers without hand-holes	28	6
Boilers with badly fitting hand-holes	24	9
Boilers without stop-valves	35	..
Cases of defective steam-pipes	45	15
Unclassified defects	298	46
Total	3,138	733

Report of the Chief Engineer Examiner.

NEW WESTMINSTER, B.C., January 2nd, 1913.

The Honourable the Minister of Public Works,
Victoria, B.C.

SIR,—I have the honour to submit to you the following report with respect to the examinations of candidates for engineers' certificates for the year ending December 31st, 1912:—

During the year I have received 1,595 applications for examination for the different grades of certificates.

On December 31st, 1911, I had on hand 217 applications, making a total of 1,812. Of these, 1,103 have been examined; 228 candidates had their fees returned, as they had not the practical qualifications required by the Act; thirty-five sent in applications without fees; and forty-six were notified three times, and as there was no response in any case their application forms were placed on a special file to await inquiry by the applicants. This leaves on the "Accepted for Examination" file 173 application forms.

RESULTS OF EXAMINATIONS.

Grade.	No. examined.	Passed.	Failed.
First	9	9	..
Second	48	26	22
Third	207	141	66
Fourth	563	346	217
Temporary	125	125	..
Special logging-donkey	109	72	37
Special logging-locomotive	15	13	2
Special creamery	6	6	..
Special heating	23	23	..
Special road-roller	4	4	..
Special threshing	4	4	..
Total	1,113	769	344

Examination fees collected by Chief Inspector	$ 4,257 50
Fees collected by other Inspectors	350 00
Duplicate certificate fees	52 50
Total	$4,660 00

Trusting this report will meet with your approval,

I have, etc.,
JOHN PECK,
Chief Engineer Examiner

Senior Inspector's Report, District A.

New Westminster, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

Sir,—I have the honour to submit to you the annual report showing the work done by me for the year ending December 31st, 1912.

During the year nearly all my time has been occupied in carrying out the work that came into this office—namely, examining, calculating, reporting on, and registering designs of boilers, pipe plans, safety-valves, etc., examining engineers, and inspecting and testing boilers.

Owing to the increasing number of boiler designs being submitted for approval, together with a great number of new boilers coming into this district, I would respectfully suggest that an additional Inspector be appointed, as otherwise the present staff will be unable to cope with the growing requirements of the boiler manufacturers and owners.

Appended you will find the tabulated list of work done by me during the year.

Trusting that this report will meet with your approval,

I have, etc.,
John Downie,
Senior Inspector, District A.

Summary of Work done in District A in 1912.

Number of drawings and specifications calculated for boilers	223
" boilers built under inspection in British Columbia	8
" new boilers inspected (total)	8
" first inspections	8
" inspections, external and internal	2
" external inspections only	8
" boilers subjected to hydrostatic test	2
" boilers repaired under Inspector's directions	1
" inspections completed	10
Total horse-power of boilers inspected	904
Number of defects observed as per summary	3
Inspection fees earned	$181.20
Inspection fees collected	181.20
Miles travelled by the Inspector	350

Work done for other Districts.

Assisted District D at one engineer's examination.

Work done by other Inspectors for this District.

Mr. H. Worth and Mr. L. Duckitt assisted this district in the examination of boiler designs, the former for one month and the latter for three months before commencing their duties as Inspectors in District B.

Summary of Defects observed.

Nature of Defects.	Number.
Pressure-gauges defective	1
Cases of defective tubes	1
Serious leakage around tube-ends	1
Total	3

John Downie,
Senior Inspector of Steam-boilers, District A.

Inspector's Report, District A.

NEW WESTMINSTER, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit to you my report for the year ending December 31st, 1912.

I am pleased to say that no fatal accidents have occurred in this district during 1912.

The accidents to engines and boilers have been the results of causes which must always be attended on the operation of steam-power plants.

In the erection and operation of these plants, owners are finding that it is an advantage to make their installations in accordance with the wishes of this Department, thus obtaining increased efficiency, which is the key-note of manufacturing success.

The turbine is becoming a popular power-producer, and is being installed for large and small units.

In tendering my report, I trust that you will consider my efforts to have been in accordance with the policy of the Department.

I have, etc.,
GEO. MCGOWN,
Inspector, District A.

SUMMARY OF WORK DONE IN DISTRICT A IN 1912.

Number of boilers built under inspection in Eastern Canada	17
" boilers built in Eastern Canada not under inspection	11
" new boilers inspected built in United States	3
" new boilers inspected built in British Columbia	5
" new boilers inspected (total)	36
" boilers imported from Eastern Canada (second-hand)	1
" boilers imported from United States (second-hand)	16
" boilers unclassified	1
" first inspections	54
" inspections, external and internal	420
" internal inspections only	10
" external inspections only	51
" special inspections after repairs	16
" visits in addition to inspections	52
" boilers subjected to hydrostatic test	322
" boilers on which pressure was reduced	15
" boilers unsafe without extensive repairs	7
" boilers repaired under Inspector's directions	16
" boilers considered unfit for further use	8
" accidents to engines and boilers	8
" investigations	10
" inspections completed	420
Total horse-power of boilers inspected	23,426
Number of defects observed as per summary	638
Number of defects considered dangerous	321
Inspection fees earned	$ 3,851.40
Inspection fees collected	3,692.15
Miles travelled by the Inspector	12,076
Letters inward	720
Letters outward	680
Telegrams inward	2
Telegrams outward	2
Boilers taken out of service	8

Summary of Defects observed.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves defective in construction	18	6
Pressure-gauges inoperative	12	12
Pressure-gauges defective	32	10
Cases of insufficient staying or bracing	14	14
" defective stays	1	1
" defective riveting	3	3
Boilers damaged by low water	3	1
Defective settings	32	21
Boilers with fractured plates	1	1
" burned plates	6	4
" blistered plates	2	2
Cases of sediment on fire-sheets	34	18
" internal corrosion	36	22
" scale or encrustation	24	18
" internal grooving	2	1
" external corrosion	34	18
" defective tubes	23	18
" defective feed-water arrangement	18	10
Serious leakage around tube-ends	16	10
Serious leakage in rivet-joints	11	5
Defective blow-off pipes or cocks	42	21
Defective water-gauges	3	2
Broken blow-off pipes or cocks	2	2
Cases of broken test-cocks	22	5
Connections to water-columns without valves	12	12
Neutral sheets not stayed	12	12
Furnaces out of shape	2	2
Boilers without fusible plugs	6	6
Boilers low at front end	4	2
Cases of serious leakage of fittings	19	5
Number of hand-holes, doors having bolts and dogs burned off	4	2
Defects in engines	10	5
Boilers without hand-holes	5	..
Boilers without stop-valves	12	..
Cases of defective steam-pipes	21	14
Unclassified defects	140	36
Total	638	321

Geo. C. McGown,
Inspector of Steam-boilers, District A.

Inspector's Report, District A.

NEW WESTMINSTER, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit herewith my report of work done during the year 1912.

Twenty-four boilers have been built under my supervision in this district, and all the plates used in construction of same were tested, only two of which were rejected. There are six boilers under construction at the present time.

One case came under my notice in which the owner of a steam plant was employing an engineer who had no certificate. The Court fined them both $100 each and costs.

The general condition of the plants which I have inspected this year has been good, and it appears to me that the owners and engineers are endeavouring to comply with the law.

In October I assisted you in some extensive tests on copper stills and cast-iron radiators at the Pacific Chocolate Company's plant.

Trusting my work has met with your approval,

I have, etc.,
A. S. BENNETT,
Inspector, District A.

SUMMARY OF WORK DONE IN DISTRICT A IN 1912.

Number of drawings and specifications calculated for new boilers	216
" boiler-plates inspected	84
" boiler-plates rejected	2
" boilers built under inspection in British Columbia	24
" boilers built under inspection in Eastern Canada	3
" new boilers inspected built in United States	4
" new boilers inspected built in England	1
" new boilers inspected (total)	32
" boilers imported from Eastern Canada (second-hand)	2
" boilers imported from United States (second-hand)	10
" boilers unclassified	12
" first inspections	56
" inspections, external and internal	117
" special inspections after repairs	13
" visits in addition to inspections	21
" boilers subjected to hydrostatic test	109
" boilers on which pressure was reduced	5
" boilers unsafe without extensive repairs	3
" boilers repaired under Inspector's directions	5
" accidents to engines and boilers	2
" investigations	3
" inspections completed	103
Total horse-power of boilers inspected	5,395
Number of defects observed as per summary	88
Number of defects considered dangerous	14
Inspection fees earned	$760.50
Inspection fees collected	971.34
Miles travelled by the Inspector	1,321
Letters inward	100
Letters outward	170
Boilers taken out of service	1

WORK DONE IN OTHER DISTRICTS.

Fourteen boilers supervised while under construction, but final inspection made by other Inspectors and fees collected by them.

Work done by other Inspectors for this District.

Messrs. Duckitt and Worth assisted this office in examining and figuring boiler designs when they first came into the service, Mr. Duckitt for about three months and Mr. Worth for about one month.

Summary of Defects observed.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves defective in construction	4	3
Pressure-gauges defective	27	4
Defective settings	7	3
Boilers with burned plates	1	..
Cases of sediment on fire-sheets	1	..
" internal corrosion	3	..
" scale or encrustation	7	..
" external corrosion	11	..
" defective tubes	4	..
" defective feed-water arrangement	3	1
Serious leakage around tube-ends	2	..
Defective water-gauges	5	2
Broken blow-off pipes or cocks	3	..
Water-columns without blow-outs	1	..
Cases of broken test-cocks	2	..
Connections to water-columns without valves	2	..
Neutral sheets not stayed	1	1
Boilers without fusible plugs	1	..
Cases of defective steam-pipes	3	..
Total	88	14

A. S. Bennett,
Inspector of Steam-boilers, District A.

Summary of Total Work done in District A in 1912.

Number of drawings and specifications calculated for new boilers	439
" boiler-plates inspected	84
" boiler-plates rejected	2
" boilers built under inspection in British Columbia	32
" boilers built under inspection in Eastern Canada	20
" boilers built in Eastern Canada not under inspection	11
" boilers built in England not under inspection	1
" new boilers inspected built in United States	7
" new boilers inspected built in British Columbia	5
" new boilers inspected (total)	76
" boilers imported from Eastern Canada (second-hand)	3
" boilers imported from United States (second-hand)	26
" boilers unclassified	13
" first inspections	118
" inspections, external and internal	539
" internal inspections only	10
" external inspections only	59
" special inspections after repairs	29
" visits in addition to inspections	73
" boilers subjected to hydrostatic test	433
" boilers on which pressure was reduced	20
" boilers unsafe without extensive repairs	10
" boilers repaired under Inspector's directions	22
" boilers considered unfit for further use	8
" accidents to engines and boilers	10
" investigations	13
" inspections completed	533

SUMMARY OF TOTAL WORK DONE IN DISTRICT A IN 1912.—*Concluded.*

Total horse-power of boilers inspected	29,725
Number of defects observed as per summary	729
Number of defects considered dangerous	335
Inspection fees earned	$4,793.10
Inspection fees collected	4,844.69
Miles travelled by the Inspector	13,747
Letters inward	820
Letters outward	850
Telegrams inward	2
Telegrams outward	2
Boilers taken out of service	9

SUMMARY OF TOTAL DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves defective in construction	22	9
Pressure-gauges inoperative	12	12
Pressure-gauges defective	60	14
Cases of insufficient staying or bracing	14	14
" defective stays	1	1
" defective riveting	3	3
Boilers damaged by low water	3	1
Defective settings	39	24
Boilers with fractured plates	1	1
" burned plates	7	4
" blistered plates	2	2
Cases of sediment on fire-sheets	35	18
" internal corrosion	39	22
" scale or encrustation	31	18
" internal grooving	2	1
" external corrosion	45	18
" defective tubes	28	18
" defectlve feed-water arrangement	21	11
Serious leakage around tube-ends	19	10
Serious leakage in rivet-joints	11	5
Defective blow-off pipes or cocks	42	21
Defective water-gauges	8	4
Broken blow-off pipes or cocks	7	2
Water-columns without blow-outs	1	..
Cases of broken test-cocks	24	5
Connections to water-columns without valves	14	12
Neutral sheets not stayed	13	13
Furnaces out of shape	2	2
Boilers without fusible plugs	7	6
Boilers low at front end	4	2
Cases of serious leakage of fittings	19	5
Number of hand-holes, doors having bolts and dogs burned off	4	2
Defects in engines	10	5
Boilers without hand-holes	5	..
Boilers without stop-valves	12	..
Cases of defective steam-pipes	24	14
Unclassified defects	140	36
Total	729	335

JOHN DOWNIE,
GEO. C. MCGOWN,
A. S. BENNETT,
Inspectors of Steam-boilers, District A.

Senior Inspector's Report, District B.

Victoria, B.C, January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

Sir,—I have the honour to submit the following report for the year 1912, summarizing my work for the past twelve months:—

General examinations have been held every three months in Victoria and Nanaimo, also intermediate examinations, as opportunity permitted, in the Victoria office, which happened every month but February. Examinations were also held by me in Cumberland, and by the Junior Inspector in Prince Rupert and the north, as you will see by my tabulated report.

As the work in this office is becoming more arduous, owing to the rapidly increasing correspondence as well as to the large number of visitors received daily, I feel that in future I shall be tied even more than ever to the office; and, as to properly inspect the increasing number of steam plants in this district additional help is much needed, I trust that at least one Inspector will be added to the Victoria District at an early date.

I regret to say that during the year there have been fifteen accidents to engines and boilers, in which five persons were injured and three were killed. Among the mishaps to steam plants were:—

In January, at steam plant No. 895, the engineer, who was oiling some machinery, got his right arm caught in some spur-wheels, and was so badly injured that he had to have his arm amputated at the shoulder.

In February, an accident happened to an engine-shaft governor, which broke and the pieces flew out through the engine-room, but fortunately none of the persons present were struck.

In March the engine at steam plant No. 1258 was wrecked from the governor becoming disarranged and permitting the engine to race so badly that serious damage resulted. The same month, at steam plant No. 600, the engineer, having cleaned and washed out his boiler, put a little coal-oil in to soften the scale, and when the boiler was being filled with water he put a light inside to observe the amount of water, when the gas ignited, causing an explosion which blew him away, burning his hands and face and hurting his back.

In April, at steam plant No. 1431, which was a concrete mixer being operated on the street, the engineer, when oiling, was caught by his clothes on the revolving shaft and was pulled into the machinery and instantly killed.

In May an engineer was oiling the saw-carriage engine, when the engine moved, catching his hand and tearing off some of his fingers.

In June a fatal accident occurred at steam plant No. 16. The engineer with an assistant was taking apart a steam-pipe, which by some grave oversight was full of steam. A portion of the pipe blew off, instantly killing the assistant and scalding the engineer. This accident was officially investigated by you afterwards. The same month, at steam plant No. 1014, when the engineer was feeding the boiler by means of an injector, the feed-water happened to get shut off, resulting in the blowing-out of the overflow and badly scalding the engineer.

In July an accident happened to a boiler which was overheated, caused by a burst water-gauge. The engineer, after replacing same, did not sufficiently open the valve and low water resulted.

In August a fatal accident occurred in Cowichan Lake from a steam logging-donkey, which was being moved, toppling over, killing a workman who was alongside. In the same month a heating plant was overheated owing to the steam-fitter putting the check-valve on return pipe the wrong way, so that the water of condensation could not return to the boiler.

In September steam-boiler No. 668 became overheated by lowness of water, caused by burst gauge-glass, and the improper manipulation of the test-cocks by the fireman while the engineer was busy with the engine.

In November, at steam plant No. 1080, an engine governor spindle nut worked off causing the engine to race. The pulley burst in pieces, one of which struck a workman on the arm, badly breaking it. During the same month a stop-valve was fractured by water-hammer, but fortunately no one was scalded.

Twice during the year I have had the use of the cruiser "Adanac," and found it of great assistance in inspecting steam plants on the Gulf Islands. Thus I was enabled to inspect with dispatch some thirty steam plants.

During the year just past the former Junior Inspector was moved to Vancouver, and in the same month Inspector Worth was sent here in his place. In October Inspector Duckitt was also sent to this district. Notwithstanding such increased assistance, as well as the appointment of a stenographer and typewriter, the work in this district is still in arrears, and it was impossible to find time to inspect the numerous steam plants in the Queen Charlotte Islands and other northern points, as well as many in the interior at Fort George and other districts. The foregoing is my reason for desiring additional help to more efficiently carry out the work of this district.

Strict supervision has been kept on all steam plants as to their being under the charge of certificated engineers, and any reports to the contrary were at once looked into. It was necessary in two cases to proceed against offenders, who were fined in accordance with the Inspection Act.

Trusting this report meets with your approbation, and enclosing tabulated detail of earnings, collections, etc.,

I have, etc.,
S. BAXTER,
Senior Inspector, District B.

ENGINEERS' EXAMINATIONS.

Number of applications for examinations	67
Number of applications for re-examination	27
Number of applications approved	37
Examination fees	$97.50

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	7	3	4
Third	35	22	13
Fourth	84	50	34
Temporary	24	24	..
Special logging-donkey	5	4	1
Special threshing-engine	1	1	..
Special creamery	2	2	..
Special heating	5	5	..
Totals	163	111	52

SUMMARY OF WORK DONE IN DISTRICT B IN 1912.

Number of drawings and specifications calculated for new boilers	1
" boiler-plates inspected	188
" boiler-plates rejected	5
" boilers built under inspection in British Columbia	41
" boilers built under inspection in Eastern Canada	21
" boilers built in Eastern Canada not under inspection	9
" new boilers inspected built in United States	4
" new boilers inspected (total)	77
" boilers imported from Eastern Canada (second-hand)	1
" boilers imported from United States (second-hand)	8
" boilers unclassified	22
" first inspections	107

SUMMARY OF WORK DONE IN DISTRICT B IN 1912.—*Concluded.*

Number of inspections, external and internal	349
" external inspections only	33
" special inspections after repairs	16
" visits in addition to inspections	199
" boilers subjected to hydrostatic test	354
" boilers on which pressure was reduced	26
" boilers unsafe without extensive repairs	8
" boilers repaired under Inspector's directions	34
" boilers considered unfit for further use	10
" accidents to engines and boilers	15
" accidents resulting in personal injury (not fatal)	5
" accidents resulting in personal injury (fatal)	3
" investigations	8
" inspections completed	383
Total horse-power of boilers inspected	19,552
Number of defects observed as per summary	411
Number of defects considered dangerous	101
Inspection fees earned	$3,323.45
Inspection fees collected	$3,244.80
Miles travelled by the Inspector	7,167
Letters inward	2,433
Letters outward	3,152
Telegrams inward	61
Telegrams outward	54
Boilers taken out of service	7

WORK DONE FOR OTHER DISTRICTS.

Sixteen boilers built under my inspection for District D.

WORK DONE BY OTHER INSPECTORS FOR THIS DISTRICT.

Sixteen boilers inspected by District D for this district.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	4	..
Boilers with safety-valves defective in construction	2	..
Pressure-gauges inoperative	2	1
Pressure-gauges defective	62	10
Cases of defective stays	1	..
" broken stays or braces	1	1
" loose stays or braces	7	..
Boilers damaged by low water	3	2
Defective settings	22	9
Boilers with fractured plates	13	2
" burned plates	6	3
" blistered plates	1	1
Cases of sediment on fire-sheets	4	..
" internal corrosion	9	2
" scale or encrustation	7	4
" external corrosion	19	3
" defective tubes	6	2
" defective feed-water arrangement	8	1
" broken feed-valves	1	..
Serious leakage around tube-ends	31	9
Defective blow-off pipes or cocks	23	11
Defective water-gauges	5	2
Broken blow-off pipes or cocks	2	2

SUMMARY OF DEFECTS OBSERVED.—*Concluded.*

Nature of Defects.	Number.	Dangerous.
Water-columns without blow-outs	6	3
Cases of broken test-cocks	57	..
Connections to water-columns without valves	6	2
Boilers without fusible plugs	36	..
Boilers low at front end	13	..
Number of hand-holes, doors having bolts and dogs burned off	21	15
Defects in engines	23	12
Boilers without stop-valves	3	..
Cases of defective steam-pipes	4	1
Unclassified defects	3	3
Total	411	101

S. BAXTER,
Senior Inspector of Steam-boilers, District B.

Inspector's Report, District B.

VICTORIA, B.C., January 2nd, 1913.

John Peck, Esq.,
Inspector of Machinery, New Westminster, B.C.

SIR,—I have pleasure in forwarding you my report for the first eight months of 1912, during which period I was located in the Victoria District.

While employed there I inspected boilers in Comox, Nanaimo, Prince Rupert (as far inland as Aldermere), Stewart, Granby Bay, Atlin, Ocean Falls, and Jordan River District. Also Skeena River, Nass River, Rivers Inlet, and Kimsquit Canneries.

I am pleased to say that the boilers in these districts, with the exception of those in Cumberland, are both operated and looked after in a satisfactory manner.

The attached tabulated report for this period will show the extent of work done, which I trust you will find satisfactory.

I have, etc.,
F. BATH,
Inspector, District B.

RESULTS OF EXAMINATIONS.

Class.	No. Examined.	Passed.	Failed.
Second	3	2	1
Third	15	10	5
Fourth	43	18	25
Special log-haul	4	3	1
Totals	65	33	32

SUMMARY OF WORK DONE IN DISTRICT B DURING THE FIRST EIGHT MONTHS OF 1912.

Number of boiler-plates inspected	16
" boilers built under inspection in Eastern Canada	3
" new boilers inspected built in United States	10
" new boilers inspected (total)	13
" boilers imported from United States (second-hand)	5
" boilers unclassified	2
" first inspections	20
" inspections, external and internal	256
" external inspections only	10
" special inspections after repairs	3
" visits in addition to inspections	18
" boilers subjected to hydrostatic test	231
" boilers on which pressure was reduced	7
" boilers unsafe without extensive repairs	4
" boilers repaired under Inspector's directions	1
" boilers considered unfit for further use	1
" inspections completed	266
Total horse-power of boilers inspected	8,607
Number of defects observed as per summary	68
Number of defects considered dangerous	13
Inspection fees earned	$1,935.75
Inspection fees collected	2,162.55
Miles travelled by the Inspector	6,362
Letters inward	111
Letters outward	194
Telegrams inward	2
Telegrams outward	4
Boilers taken out of service	2

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	2	1
Pressure-gauges defective	11	..
Cases of insufficient staying or bracing	2	2
Cases of broken stays or braces	7	..
Boilers damaged by low water	4	1
Boilers with fractured plates	1	..
" laminated plates	3	1
" blistered plates	1	..
Cases of sediment on fire-sheets	2	..
" internal corrosion	2	..
" defective tubes	2	..
Serious leakage around tube-ends	4	1
Defective blow-off pipes or cocks	7	4
Broken blow-off pipes or cocks	2	2
Neutral sheets not stayed	4	1
Neutral sheets improperly stayed	2	..
Boilers without fusible plugs	4	..
Boilers low at front end	4	..
Cases of serious leakage of fittings	1	..
Defects in engines	1	..
Boilers without hand-holes	1	..
Total	68	13

F. BATH,
Inspector of Steam-boilers, District B.

Inspector's Report, District B.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit herewith my first annual report since I was appointed Inspector of Boilers on July 8th, 1912.

From that date I was employed in the New Westminster office on the calculating of boiler designs, assisting with engineers' examinations, and inspecting boilers in the district, and the experience gained in that time has been of much service to me.

I commenced my duties in the Victoria District on October 2nd, 1912, under the instructions and direction of Mr. Baxter, and have since endeavoured to give every satisfaction. During the three months I have been in District B I have inspected ninety-seven boilers in the vicinity of Victoria, Cumberland, Comox, and Nanaimo, and other various places between Victoria and Nanaimo. I also assisted with engineers' examinations in Victoria and Cumberland.

The majority of the steam plants I inspected were in a satisfactory condition, but most of the vertical boilers used for logging purposes leaked at the tube-ends in the top head, some of them to such an extent that no pressure could be obtained with the test-pump. All minor defects are given in the tabulated report.

Trusting this report will meet with your approval,

I have, etc.,
LOUIS DUCKITT,
Inspector, District B.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Temporary	2	2	..

REMARKS.

I assisted Mr. Baxter with engineers' examinations in Victoria and Cumberland.

SUMMARY OF WORK DONE IN DISTRICT B DURING THE LAST THREE MONTHS OF 1912.

Number of boiler-plates inspected	18
" new boilers inspected built in United States	1
" new boilers inspected (total)	3
" boilers unclassified	4
" first inspections	9
" inspections, external and internal	94
" external inspections only	3
" visits in addition to inspections	5
" boilers subjected to hydrostatic test	83
" boilers on which pressure was reduced	1
" boilers repaired under Inspector's directions	1
" inspections completed	97
Total horse-power of boilers inspected	3,363
Number of defects observed as per summary	92
Inspection fees earned	$761.30
Inspection fees collected	364.60
Miles travelled by the Inspector	873
Letters inward	11
Letters outward	53
Boilers taken out of service	1

WORK DONE FOR OTHER DISTRICTS.

From July 8th to October 1st, 1912, I assisted in the New Westminster office at working out boiler designs, examining engineers, and inspecting boilers in the district.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.
Boilers with safety-valves defective in construction	2
Pressure-gauges defective	28
Cases of defective stays	6
Cases of broken stays or braces	4
Boilers with fractured plates	2
Boilers with burned plates	1
Cases of internal corrosion	2
" scale or encrustation	1
" external corrosion	7
" defective tubes	2
" defective feed-water arrangement	2
Serious leakage around tube-ends	9
Defective blow-off pipes or cocks	2
Water-columns without blow-outs	1
Connections to water-columns without valves	3
Neutral sheets not stayed	1
Boilers without fusible plugs	5
Boilers low at front end	7
Cases of serious leakage of fittings	5
Boilers without stop-valves	2
Total	92

L. DUCKITT,
Inspector of Steam-boilers, District B.

ENGINEERS' EXAMINATIONS.

Examination fees $17.50

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	1	..	1
Third	3	2	1
Fourth	11	10	1
Temporary	1	1	..
Special logging-donkey	4	4	..
Totals	20	17	3

REMARKS.

I assisted with examinations at Victoria and Nanaimo in October, and examined four men in camps for special logging certificates.

SUMMARY OF WORK DONE IN DISTRICT B FROM AUGUST 1ST TO DECEMBER 31ST, 1912.

Number of drawings and specifications calculated for new boilers	2
" new boilers inspected built in United States	1
" new boilers inspected built in British Columbia	1
" new boilers inspected (total)	2
" boilers imported from Eastern Canada (second-hand)	1
" boilers imported from United States (second-hand)	1

SUMMARY OF WORK DONE IN DISTRICT B FROM AUGUST 1ST TO DECEMBER 31ST, 1912.—*Concluded.*

Number of first inspections	7
" inspections, external and internal	82
" external inspections only	2
" special inspections after repairs	7
" visits in addition to inspections	20
" boilers subjected to hydrostatic test	68
" boilers on which pressure was reduced	6
" boilers unsafe without extensive repairs	2
" boilers repaired under Inspector's directions	7
" boilers considered unfit for further use	2
" inspections completed	86
Total horse-power of boilers inspected	3,599.6
Number of defects observed as per summary	62
Number of defects considered dangerous	7
Inspection fees earned	$667.45
Inspection fees collected	515.10
Miles travelled by the Inspector	1,847
Letters inward	128
Letters outward	200
Telegrams inward	2
Telegrams outward	2

WORK DONE FOR OTHER DISTRICTS.

From July 8th to July 30th I was employed at Head Office, New Westminster, on th calculation of boiler designs.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Pressure-gauges defective	1	..
Cases of insufficient staying or bracing	2	..
Cases of broken stays or braces	4	..
Defective settings	1	..
Boilers with burned plates	1	..
Cases of internal corrosion	4	3
" external corrosion	9	1
" defective tubes	2	1
Serious leakage around tube-ends	1	..
Defective blow-off pipes or cocks	2	..
Defective water-gauges	4	3
Cases of broken test-cocks	3	..
Connections to water-columns without valves	3	..
Neutral sheets not stayed	2	..
Boilers without fusible plugs	3	..
Cases of defective steam-pipes	1	..
Unclassified defects	19	..
Total	62	7

H. WORTH,
Inspector of Steam-boilers, District B.

Inspector's Report, District B.

Victoria, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

Sir,—I have the honour to submit to you my first annual report since my entry into the service on July 8th, 1912.

From then till July 31st I was employed in your office at Westminster, mostly on the working-out of blue-prints and acquiring much useful information.

On August 1st I started work in the Victoria District under Mr. Baxter, and have been employed mostly on inspection-work. Owing to the scattered nature of the district and the difficulties of communication, my report is less satisfactory than I could wish.

I have inspected plants in Victoria, Jordan River, Nanaimo, Port Alberni, etc., and on the West Coast.

One return-tubular boiler in a local hotel was inspected for the first time, and was found so wasted by internal corrosion as to be unfit for any useful pressure and so had to be condemned.

Boiler 402B was condemned owing to bad external corrosion. It was only sixteen years old, but had never been reasonably protected from the weather.

Boiler 217B was found to be badly corroded at bottom of back head, tube-ends gone, many tubes very thin, and stay-pins more or less corroded. I have informed the owners that its further use to drive the engine cannot be allowed unless tubes and brickwork are removed and the boiler repaired, if then worth while. This boiler is twenty-six years old.

For minor defects, please see tabulated report.

Trusting that this report will meet with your approval,

I have, etc.,
H. Worth,
Inspector, District B.

Summary of Total Work done in District B in 1912.

Number of drawings and specifications calculated for new boilers	2
" boiler-plates inspected	222
" boiler-plates rejected	5
" boilers built under inspection in British Columbia	41
" boilers built under inspection in Eastern Canada	24
" boilers built in Eastern Canada not under inspection	9
" new boilers inspected built in United States	16
" new boilers inspected built in British Columbia	1
" new boilers inspected (total)	95
" boilers imported from Eastern Canada (second-hand)	2
" boilers imported from United States (second-hand)	14
" boilers unclassified	28
" first inspections	143
" inspections, external and internal	781
" external inspections only	48
" special inspections after repairs	26
" visits in addition to inspections	242
" boilers subjected to hydrostatic test	736
" boilers on which pressure was reduced	40
" boilers unsafe without extensive repairs	14
" boilers repaired under Inspector's directions	43
" boilers considered unfit for further use	13
" accidents to engines and boilers	15
" accidents resulting in personal injury (not fatal)	5
" accidents resulting in personal injury (fatal)	3
" investigations	8
" inspections completed	832
Total horse-power of boilers inspected	35,121

SUMMARY OF TOTAL WORK DONE IN DISTRICT B IN 1912.—*Concluded.*

Number of defects observed as per summary	633
Number of defects considered dangerous	121
Inspection fees earned	$6,687.95
Inspection fees collected	6,286.75
Miles travelled by the Inspector	16,249
Letters inward	2,583
Letters outward	2,599
Telegrams inward	68
Telegrams outward	60
Boilers taken out of service	10

SUMMARY OF TOTAL DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	2	1
Boilers with safety-valves overloaded	4	..
Boilers with safety-valves defective in construction	4	..
Pressure-gauges inoperative	2	1
Pressure-gauges defective	102	10
Cases of insufficient staying or bracing	4	2
" defective stays	7	..
" broken stays or braces	16	1
" loose stays or braces	7	..
Boilers damaged by low water	7	3
Defective settings	23	9
Boilers with fractured plates	16	2
" laminated plates	3	1
" burned plates	8	3
" blistered plates	2	1
Cases of sediment on fire-sheets	6	..
" internal corrosion	17	5
" scale or encrustation	8	4
" external corrosion	36	4
" defective tubes	12	2
" defective feed-water arrangement	10	1
" broken feed-valves	1	..
Serious leakage around tube-ends	45	10
Defective blow-off pipes or cocks	34	15
Defective water-gauges	9	5
Broken blow-off pipes or cocks	4	4
Water-columns without blow-outs	7	3
Cases of broken test-cocks	60	..
Connections to water-columns without valves	12	2
Neutral sheets not stayed	7	1
Neutral sheets improperly stayed	2	..
Boilers without fusible plugs	48	..
Boilers low at front end	24	..
Cases of serious leakage of fittings	6	..
Number of hand-holes, doors having bolts and dogs burned off	21	15
Defects in engines	24	12
Boilers without hand-holes	1	..
Boilers without stop-valves	5	..
Cases of defective steam-pipes	5	1
Unclassified defects	22	3
Total	633	121

S. BAXTER,
L. DUCKITT,
H. WORTH,
Inspectors of Steam-boilers, District B.

Inspector's Report, District C.

Nelson, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

Sir,—I have the honour to submit the following report for the year ending December 31st, 1912:—

During the year engineers' examinations were held at different points in the district at frequent intervals (*see* tabulated report), and on this occount the number of boilers inspected was less than in the preceding year. Also there are quite a number of steam-shovels along the route of the new railways, and, as they are a long way from railway transportation, it takes considerable time to get to them. The steam plants in the district around Princeton are also increasing and are widely scattered.

Very few accidents have happened in this district, only two resulting in personal injuries. In one case the engineer was going to wash out the boiler, and, thinking it was empty, he pushed in the front manhole-cover and was scalded by the water which had been left in the boiler. The other accident was caused by a logging-locomotive getting out of control, with the result that the engineer's shoulder was dislocated. Four boiler-plates were damaged by scale and mud gathering on the furnaces of locomotive boilers, and it was necessary to replace a number of stays in each case. There are a few small mills each operating with only one locomotive-type boiler, and it is rather difficult to remove sediment from the plates on account of lack of water-pressure.

Apart from the extra time which was given to engineers' examinations, the work done has been very much the same as in former years.

Appended you will find tabulated statement for the year.

I have, etc.,
Andrew Sutherland,
Inspector, District C.

Results of Examinations.

Class.	No. Examined.	Passed.	Failed.
Second	6	3	3
Third	18	15	3
Fourth	37	26	11
Temporary	2	2	..
Special log-haul	9	7	2
Special logging-locomotive	3	3	..
Totals	75	56	19

Remarks.

There are on file in my office six applications to be examined for second-class certificates, thirteen for third class, and twenty for fourth class; also one for logging-locomotive and one for low-pressure heating-boiler.

Twenty-five of these have been notified once to appear for examination and twelve have been notified twice.

During the year examinations were held in Fernie in February, May, June, and September, and in Cranbrook in April, June and September. Candidates were examined every month in Nelson.

SUMMARY OF WORK DONE IN DISTRICT C IN 1912.

Number of boilers built under inspection in Eastern Canada	10
" boilers built in Eastern Canada not under inspection	2
" new boilers inspected built in United States	5
" new boilers inspected (total)	17
" boilers imported from United States (second-hand)	9
" first inspections	31
" inspections, external and internal	270
" external inspections only	4
" special inspections after repairs	10
" visits in addition to inspections	132
" boilers subjected to hydrostatic test	263
" boilers on which pressure was reduced	5
" boilers unsafe without extensive repairs	4
" boilers repaired under Inspector's directions	10
" boilers considered unfit for further use	2
" accidents to engines and boilers	13
" inspections completed	274
Total horse-power of boilers inspected	18,621
Number of defects observed as per summary	314
Number of defects considered dangerous	10
Inspection fees earned	$2,895.90
Inspection fees collected	2,940.00
Miles travelled by the Inspector	9,053
Letters inward	395
Letters outward	463
Telegrams inward	24
Telegrams outward	29
Boilers taken out of service	2

WORK DONE BY OTHER INSPECTORS FOR THIS DISTRICT.

One boiler, inspected by Mr. Bennett at Cheney, Wash., has been shipped to this district.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Pressure-gauges inoperative	3	1
Pressure-gauges defective	40	2
Cases of defective stays	5	..
" broken rivets	2	..
" broken stays or braces	2	..
" loose stays or braces	10	..
Defective settings	18	..
Boilers with fractured plates	2	..
" laminated plates	1	..
" burned plates	4	4
Cases of sediment on fire-sheets	30	2
" internal corrosion	6	..
" scale or encrustation	48	..
" external corrosion	26	..
" defective tubes	4	..
" defective feed-water arrangement	2	..
Serious leakage around tube-ends	1	..
Defective blow-off pipes or cocks	4	..
Defective water-gauges	5	1
Broken blow-off pipes or cocks	2	..
Water-columns without blow-outs	3	..
Cases of broken test-cocks	50	..
Connections to water-columns without valves	1	..

Summary of Defects observed.—*Concluded.*

Nature of Defects.	Number.	Dangerous.
Neutral sheets improperly stayed	3	..
Boilers without fusible plugs	3	..
Boilers low at front end	24	..
Cases of serious leakage of fittings	8	..
Defects in engines	2	..
Cases of defective steam-pipes	5	..
Total	314	10

Remarks.

Four new boilers built under inspection in Eastern Canada were inspected before being built in. They were not subjected to hydrostatic test, and have not been included in this year's report, as it will be some time yet before they are ready for operation.

Andrew Sutherland,
Inspector of Steam-boilers, District C.

Senior Inspector's Report, District D.

Vancouver, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

Sir,—I have the honour to submit the following report for the year 1912 (*see* tabulated report):—

I am pleased to report that there have been no explosions nor serious accidents in this district during the year. The only accidents we have heard of will be found in the Inspectors' individual reports.

My work during the year has been confined to the office almost entirely, keeping up the records, arranging the work of the Inspectors, and examining fourth-class and special engineers.

Regarding the work in this district, I would say that only about one-half of the logging-donkeys have been inspected owing to lack of assistance. The heating plants also have not all been gone ever for the same reason. These boilers are causing a good deal of trouble because of the heating contractors not taking the Act seriously, the Inspector having to go to some of these plants four or five times before they can get them to make all the changes required by the regulations. This is on the new plants; on all the older ones the defects are being pointed out as we find time to visit them, and the owners are given until August 1st to bring them up to the requirements of the modified rules. This will again mean several trips to each plant before final inspection is made. Some of the owners are strongly objecting to any changes after the boilers have been satisfactorily operating for several years. One man called at the office and threatened to take the matter to the Supreme Court before he would submit to this injustice, claiming that, as the installing engineer had been putting in any number of boilers exactly like this one and had not been molested until the present time, he was justified in supposing that the Act did not apply to low-pressure plants, and he having installed them in good faith could not legally be made to change them now. I mention this to show the trouble we are likely to meet before final inspection is made of these older boilers, and the amount of time it will take up without showing appreciable results. You can readily see that our present staff will be too small to take care of the increased number of high-pressure plants, and also get the older heating-boilers in line with requirements.

The engineers' examinations also take up considerable time. At present I can take care of the fourth-class and special engineers, who can be examined at odd times, but the regular examinations for higher grades either cause delay in inspections or are too far apart. The candidates at the present time have cause for complaint at being kept three or four months after making application before they can be examined, but this is the best we can do under the circumstances.

Trusting that this report will meet with your approval,

I have, etc.,
GEORGE O. MADIGAN,
Senior Inspector, District D.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	4	2	2
Third	22	14	8
Fourth	136	69	67
Special log-haul	34	18	16
Special logging-locomotive	2	2	..
Special creamery	3	3	..
Special heating	6	6	..
Total	207	114	93

REMARKS.

In addition to above, fifty-four candidates were examined in April and papers sent to Head Office without being tabulated. This was a regular examination.

SUMMARY OF WORK DONE IN DISTRICT D IN 1912.

Number of external inspections only	3
Number of visits in addition to inspections	91
Inspection fees collected (total for District D)	$6,258.32
Letters inward (total for District D)	2,044
Letters outward (total for District D)	2,690

GEORGE O. MADIGAN,
Senior Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., January 2nd, 1913.

J. Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I beg to submit herewith for your consideration report of work completed for year ending December 31st, 1912.

During the months of February, March, April, May, June, July, August, September, October, and November I assisted with examinations in this office. Reports of the individual candidates examined are upon file in your office, the number passed and failed in the different grades being tabulated in attached report.

Four hundred and twenty-three boilers were examined, a great many of these being heating-boilers. One boiler was condemned, twenty-one were found unsafe without extensive repairs, and upon seven it was necessary to reduce the allowable working-pressure. Four boilers were taken out of service, and to the owners or four more notices were given that the working-pressure would be reduced at next inspection. These latter boilers are probably twenty-three years old and have been in use almost continuously.

The crank-shaft of the main engine of E. H. Heaps & Co.'s plant developed a fracture serious enough, in my opinion, to condemn the shaft.

Two boilers were dented by falling, and it was necessary to take the plates apart and reroll them. One of these was a large water-tube boiler built by Goldie McCulloch & Co. It seems that it fell from the crane when being removed from a flat car at the railway-track.

This year a great deal more attention has been paid to the heating plants than formerly, the number inspected being seventy-two. Nearly all these boilers were new and installed at the time of inspection. It was found necessary to make many trips to each plant to consult with the contractor and correct mistakes made in the attachment of the various mountings, etc. Generally speaking, much ignorance was found among heating-men as to proper methods of attaching the different valves, etc., as the following instance will show: To avoid boring a 1-inch hole in the opposite side of a boiler, the lower connection from the water-column was taken from the side of the boiler down through the brick arch above the fire and up to the opposite side. Naturally when steam was raised much trouble was caused by the water-level in the glass fluctuating, and this led to the discovery of the manner in which the pipes were connected.

In another case the contractor, for lack of head-room, had placed the safety-valves upon the steam-pipe of a cast-iron boiler at such an angle that any hot water or steam would be discharged by the safety-valve almost directly on the attendant's head.

In a great many cases lack of space was a common fault, some boiler-rooms being so small that it would be dangerous for the attendant to attempt to reach the boiler-valves if the safety-valve should blow off for a short period. In several plants it was necessary to abandon tests upon safety-valves on this account, the amount of steam discharged making it impossible to see the steam-gauge or water-glass. Discharge-pipes outside the buildings were suggested, but in very few cases was the suggestion carried out.

In November several reports came into this office that a contracting firm were operating boilers without certificated engineers. Investigation proved this to be a fact, and, acting on your instructions, summons were issued against the company and the men. Information was laid in two cases, but unfortunately neither the witnesses subpœnaed by the Crown nor the men summoned appeared in Court, counsel for the defense stating that they had probably left the country. The cases against the men were adjourned and those against the company dismissed for want of evidence. It appears that the summonses and subpœnas were not actually delivered to the men, but left with some of the officials at their office. In another case information was laid, but the company refused service of the summons, and in this they were upheld by the presiding Magistrate. It appears that this company is a partnership, and the Magistrate held that it would be necessary to serve one of the partners before the case could be brought into Court, and as none of the partners reside in British Columbia it was found impossible to do this. Owing to the adjournment of this case I did not feel justified in keeping the witnesses, who were out of work and without pay as witnesses, any longer, and so abandoned the case.

To determine the exact meaning of the word "employer," I would suggest that the definition used in the "Factories Act" be inserted in the "Boilers Inspection Act" at the coming session. I have already forwarded to your office a written opinion from Mr. McKay, the Crown prosecutor to this effect.

The tendency of factories and other steam plants to move well out from the car-lines would make the necessity for an automobile for the Department more apparent every year. Some means of rapid transit should be supplied both for the convenience of the steam-users and the Department. In attending to the heating plants, a great saving of time would be effected and much more accomplished in the same time. The necessity of walking several blocks to the plant from the street-car and back, with the delays attendant while waiting for the right car to come, would be avoided, and in many other ways time would be saved, and the gain in the amount of work accomplished would in all likelihood pay interest upon the investment of a small automobile. It should be remembered that for all work certain tools

are necessary, and the street-car, while giving us rapid access to points close to the line, is not convenient unless it takes us within one or two blocks of our destination. The fact that these small automobiles are necessary is borne out by the increasing number of people who use them in carrying on their business.

Trusting this report will meet with your approval,

I have, etc.,
PERCY A. GOEPEL,
Inspector, District D.

RESULTS OF EXAMINATIONS.

Class.	No. examined.	Passed.	Failed.
Second	6	4	2
Third	30	21	9
Fourth	59	40	19
Special logging-donkey	11	8	3
Special heating	4	3	1
Special creamery	1	1	..
Total	111	77	34

SUMMARY OF WORK DONE IN DISTRICT D IN 1912.

Number of boiler-plates inspected	138
" boilers built under inspection in British Columbia	28
" boilers built under inspection in Eastern Canada	28
" boilers built in Eastern Canada not under inspection	63
" new boilers inspected built in United States	78
" new boilers inspected built in British Columbia	26
" new boilers inspected (total)	244
" boilers imported from Eastern Canada (second-hand)	3
" boilers imported from United States (second-hand)	10
" boilers unclassified	35
" first inspections	271
" inspections, external and internal	423
" internal inspections only	10
" external inspections only	58
" special inspections after repairs	33
" visits in addition to inspections	175
" boilers subjected to hydrostatic test	362
" boilers on which pressure was reduced	7
" boilers unsafe without extensive repairs	21
" boilers repaired under Inspector's directions	19
" boilers considered unfit for further use	1
" accidents to engines and boilers	4
" investigations	3
" inspections completed	353
Total horse-power of boilers inspected	16,143.15
Number of defects observed as per summary	280
Number of defects considered dangerous	101
Inspection fees earned	$2,615.43
Miles travelled by the Inspector	2,095
Boilers taken out of service	4

WORK DONE FOR OTHER DISTRICTS.

Two boilers inspected at Harrison Lake for District A.

Summary of Defects observed.

Nature of Defects.	Number.	Dangerous.
Boilers without safety-valves	4	4
Boilers with safety-valves overloaded	1	1
Boilers with safety-valves defective in construction	24	10
Pressure-gauges defective	17	4
Cases of insufficient staying or bracing	5	4
" defective stays	3	2
" defective riveting	7	2
" broken stays or braces	3	2
Boilers damaged by low water	1	..
Defective settings	2	..
Boilers with fractured plates	2	1
Cases of sediment on fire-sheets	21	4
" internal corrosion	4	..
" scale or encrustation	14	4
" internal grooving	3	3
" external corrosion	13	6
" defective tubes	27	11
" defective feed-water arrangement	1	..
Serious leakage around tube-ends	31	9
Serious leakage in rivet-joints	17	5
Defective blow-off pipes or cocks	2	1
Defective water-gauges	1	1
Broken blow-off pipes or cocks	2	1
Water-columns without blow-outs	4	2
Cases of broken test-cocks	6	..
Connections to water-columns without valves	9	1
Neutral sheets improperly stayed	3	3
Furnaces out of shape	3	3
Boilers without fusible plugs	7	5
Boilers low at front end	4	1
Cases of serious leakage of fittings	2	..
Defects in engines	3	1
Boilers without hand-holes	17	6
Boilers without stop-valves	1	..
Cases of defective steam-pipes	1	..
Unclassified defects	15	4
Total	280	101

Percy A. Goepel,
Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit my annual report for the past year, 1912.

An analysis of the tabulated statement attached hereto, noting defects met with during the year, would suggest that little progress is being made here in regard to the installation and equipment of steam-boilers. Although the total number of inspections does not vary considerably from last year, the defects as noted under various heads show an alarming increase. I refer to "defective settings" and "defective safety-valves." It is satisfactory, however, to know that the heating-boilers are wholly responsible for this increase, the inspection of which has been a breaking of new ground as time and opportunity permitted during the year. In view of what, under ordinary high-pressure conditions, would be rather dangerous defects, it is further satisfactory to know that the operating steam-pressures are nearly all under 5 lb.

It is plain that Vancouver, compared with other inspection districts in the Province, necessarily presents the steam-heating problem in its most complex form, and I think it is worth while to devote a little time in this report to its consideration from a boiler-inspection standpoint.

It may be said that, except in very few instances, a place for the steam-boiler in the building is apparently an afterthought on the part of the architect, with the result that it is usually placed in a pit to afford head-room for the necessary valves and steam-headers. This in turn creates blow-off complications, which necessitate the use of a sump and small pump to take care of the water blown out. Any explanation in connection with this difficulty other than lack of forethought on the part of the architect need not be inquired into. The heating contractor, being thus handicapped by such space restrictions, finds it difficult to install the boiler in strict accordance with the amended inspection rules, even when these rules are within his knowledge. There is therefore some excuse for a certain impatience of criticism or correction at the hands of the Department of Boiler Inspection. Cases arise where, in view of the Act, there is really no room for difference of opinion, yet the same points are discussed and the same objections offered with nearly every new installation. Considering that the amended and modified rules, as applied to steam-heating plants, embody the joint ideas of the Chief Inspector and the representative heating engineers of the city, it is rather discouraging to find no lively tendency on the part of the latter to give these rules hearty support.

Another phase of the problem may be attributed to the constant influx of new contractors, and also of new foremen to the established firms of the city. With few exceptions, the experience of these men has not been gained in British Columbia, but in other places, where, as they assert, the heating engineer labours under no inspection restrictions, and were the Inspector open to conviction on the point, he would see in this immunity from inspection a positive virtue. However, the law is quite clear on this point and discussion is only a waste of time.

The foregoing remarks refer particularly to the new heating installations with which this office has dealt and put on the records during the year 1912, and it includes practically all the new heating-boilers installed during the time stated. There is, however, one more aspect of the heating difficulty, and that is the remodelling of the plants installed prior to inspection and now regularly operating. Throughout the year this office has, as time would allow, put as many of these plants on the records as possible. The inspections have not been very thorough, the main object being to note the details wherein a plant is at variance with the inspection rules; the owners are notified accordingly, and a time limit, August 1st, 1913, set, after which these boilers cannot be operated in their present condition.

Oil-fuel is becoming quite extensively used in heating plants with cast-iron as well as steel boilers. As the Inspector's authority is not very clear in regard to oil-fuel equipment, he has often to keep silent about what he considers a dangerous state of things. The danger

usually lies in the fact of the boiler-front being too close to a wall or other obstruction, thus giving the attendant no chance to dodge and escape the blow-back of flame so common in oil-fuel behaviour. Such a condition obtains very often where no good reason is apparent for having the boiler so placed relatively to the wall of the building.

In thus giving some idea of the heating problem, I have avoided unnecessary detail as far as is consistent with affording some general information as to the difficulties of the work. I have just to note further that the inspection of what is already on record will require an unusual amount of running around, in which the street-car system cannot assist very much, when the various plants come on in their order for inspection, and it is obvious that other means should be provided to facilitate this scattered work.

With regard to ordinary high-pressure work, nothing has occurred during the year especially worth mentioning. The inspections, with the notable exception of the logging outfits, are all well in hand; with one boat, the "Adanac," at our disposal, it would require the whole available good-weather season of the year to overtake the Coast work in its entirety, and this would not include such points as Vananda, Powell River, and Rock Bay.

Examinations have been held from time to time in this office, but it cannot be said that the grade of work has shown any pronounced improvement, when something like 50 per cent. only succeeded in gaining certificates.

In closing this report, I have to acknowledge the support given by the Chief Inspector, as well as by my colleagues of this office, to my best efforts to carry out my duties satisfactorily.

I have, etc.,
Fred. Biggam,
Inspector, District D.

Results of Examinations.

Class.	No. examined.	Passed.	Failed.
Second	10	4	6
Third	26	14	12
Fourth	27	15	12
Special logging-donkey	9	4	5
Special heating	1	1	..
Totals	73	38	35

Summary of Work done in District D in 1912.

Number of boiler-plates inspected	121
" boiler-plates rejected	1
" boilers built under inspection in British Columbia	35
" boilers built under inspection in Eastern Canada	38
" boilers built in Eastern Canada not under inspection	28
" new boilers inspected built in United States	36
" new boilers inspected built in Great Britain	3
" new boilers inspected built in British Columbia	34
" new boilers inspected (total)	141
" boilers imported from Eastern Canada (second-hand)	4
" boilers imported from United States (second-hand)	13
" boilers unclassified	10
" first inspections	114
" inspections, external and internal	230
" internal inspections only	34
" external inspections only	128
" special inspections after repairs	34
" visits in addition to inspections	165
" boilers subjected to hydrostatic test	295
" boilers on which pressure was reduced	16
" boilers unsafe without extensive repairs	22
" boilers repaired under Inspector's directions	27

SUMMARY OF WORK DONE IN DISTRICT D IN 1912.—*Concluded.*

Number of boilers considered unfit for further use	1
" accidents to engines and boilers	1
" investigations	24
" inspections completed	214
Total horse-power of boilers inspected	19,332.24
Number of defects observed as per summary	646
Number of defects considered dangerous	147
Inspection fees earned	$2,784.27
Miles travelled by the Inspector	1,870

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves deficient in area	27	6
Boilers with safety-valves inoperative	1	1
Boilers with safety-valves overloaded	1	1
Boilers with safety-valves defective in construction	25	8
Pressure-gauges inoperative	1	1
Pressure-gauges defective	18	5
Cases of defective stays	30	26
" broken rivets	3	..
" defective riveting	8	2
" loose stays or braces	1	..
Defective settings	38	5
Boilers with fractured plates	1	..
Cases of sediment on fire-sheets	6	2
" internal corrosion	10	1
" scale or encrustation	14	2
" external corrosion	9	4
" defective tubes	14	5
" defective feed-water arrangement	29	3
Serious leakage around tube-ends	41	3
Serious leakage in rivet-joints	16	6
Defective blow-off pipes or cocks	46	11
Defective water-gauges	24	11
Broken blow-off pipes or cocks	10	5
Water-columns without blow-outs	17	13
Cases of broken test-cocks	53	..
Connections to water-columns without valves	21	14
Neutral sheets not stayed	1	..
Furnaces out of shape	1	..
Cases of serious leakage of fittings	21	..
Number of hand-holes, doors having bolts and dogs burned off	2	..
Boilers without hand-holes	4	..
Boilers with bad fittings	24	9
Cases of defective steam-pipes	8	..
Unclassified defects	121	3
Total	646	147

FRED. BIGGAM,
Inspector of Steam-boilers, District D.

Inspector's Report, District D.

VANCOUVER, B.C., January 2nd, 1913.

John Peck, Esq.,
Inspector of Machinery, New Westminster, B.C.

SIR,—I have pleasure in forwarding you my report for the last four months of 1912.

On September 3rd I took up my duties in the Vancouver office, and from this date to the end of November was employed in inspecting logging-boilers in the Howe Sound, Squamish, and Jervis Inlet Districts, the cruiser "Adanac" being used by me for this purpose.

The attached tabulated account will give you the results of my work during this time, which I hope you will find satisfactory.

I have, etc.,
F. BATH,
Inspector, District D.

RESULTS OF EXAMINATIONS.

Class.	No. Examined.	Passed.	Failed.
Fourth	8	7	1

SUMMARY OF WORK DONE IN DISTRICT D DURING THE LAST FOUR MONTHS OF 1912.

Number of boiler-plates inspected	3
" boilers built under inspection in British Columbia	3
" boilers built in Eastern Canada not under inspection	2
" new boilers inspected built in United States	2
" new boilers inspected (total)	7
" boilers unclassified	2
" first inspections	9
" inspections, external and internal	161
" external inspections only	7
" special inspections after repairs	1
" visits in addition to inspections	17
" boilers subjected to hydrostatic test	163
" boilers on which pressure was reduced	5
" boilers unsafe without extensive repairs	2
" boilers repaired under Inspector's directions	1
" inspections completed	164
Total horse-power of boilers inspected	7,391
Number of defects observed as per summary	105
Number of defects considered dangerous	16
Inspection fees earned	$1,327.30
Miles travelled by the Inspector	1,457
Letters inward	8
Letters outward	10

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves overloaded	2	2
Boilers with safety-valves defective in construction	9	1
Pressure-gauges inoperative	2	2
Pressure-gauges defective	20	..
Cases of broken stays or braces	4	3
" loose stays or braces	2	1

SUMMARY OF DEFECTS OBSERVED.—*Concluded.*

Nature of Defects.	Number.	Dangerous.
Cases of sediment on fire-sheets	4	1
" external corrosion	1	..
" defective tubes	1	..
Serious leakage around tube-ends	29	..
Serious leakage in rivet-joints	1	..
Defective blow-off pipes or cocks	10	2
Water-columns without blow-outs	2	2
Cases of broken test-cocks	5	..
Connections to water-columns without valves	2	1
Boilers without fusible plugs	4	..
Boilers low at front end	2	..
Cases of serious leakage of fittings	2	..
Number of hand-holes, doors having bolts and dogs burned off	1	1
Defects in engines	1	..
Cases of defective steam-pipes	1	..
Total	105	16

F. BATH,
Inspector of Steam-boilers, District D.

SUMMARY OF TOTAL WORK DONE IN DISTRICT D IN 1912.

Number of boiler-plates inspected	262
" boiler of boiler-plates rejected	1
" boilers built under inspection in British Columbia	66
" boilers built under inspection in Eastern Canada	66
" boilers built in Eastern Canada not under inspection	93
" boilers built in England not under inspection	3
" new boilers inspected built in United States	116
" new boilers inspected built in British Columbia	60
" new boilers inspected (total)	392
" boilers imported from Eastern Canada (second-hand)	7
" boilers imported from the United States (second-hand)	23
" boilers unclassified	47
" first inspections	394
" inspections, external and internal	814
" internal inspections only	44
" external inspections only	196
" special inspections after repairs	68
" visits in addition to inspections	448
" boilers subjected to hydrostatic test	820
" boilers on which pressure was reduced	28
" boilers unsafe without extensive repairs	43
" boilers repaired under Inspector's directions	46
" boilers considered unfit for further use	2
" accidents to engines and boilers	5
" investigations	7
" inspections completed	731
Total horse-power of boilers inspected	42,866
Number of defects observed as per summary	1,031
Number of defects considered dangerous	264
Inspection fees earned	$6,727.00
Inspection fees collected	6,258.32
Miles travelled by the Inspector	5,422
Letters inward	2,052
Letters outward	2,700
Boilers taken out of service	4

Summary of Total Defects observed.

Nature of Defects.	Number.	Dangerous.
Boilers without safety-valves	4	4
Boilers with safety-valves deficient in area	27	6
Boilers with safety-valves inoperative	1	1
Boilers with safety-valves overloaded	4	4
Boilers with safety-valves defective in construction	58	19
Pressure-gauges inoperative	3	3
Pressure-gauges defective	55	9
Cases of insufficient staying or bracing	5	4
" defective stays	33	28
" broken rivets	3	..
" defective riveting	15	4
" broken stays or braces	7	5
" loose stays or braces	3	1
Boilers damaged by low water	1	..
Defective settings	40	5
Boilers with fractured plates	3	1
Cases of sediment on fire-sheets	31	7
" internal corrosion	14	1
" scale or encrustation	28	6
" internal grooving	3	3
" external corrosion	23	10
" defective tubes	42	16
" defective feed-water arrangement	30	3
Serious leakage around tube-ends	101	12
Serious leakage in rivet-joints	34	11
Defective blow-off pipes or cocks	58	14
Defective water-gauges	25	12
Broken blow-off pipes or cocks	12	6
Water-columns without blow-outs	23	17
Cases of broken test-cocks	64	..
Connections to water-columns without valves	32	16
Neutral sheets not stayed	1	..
Neutral sheets improperly stayed	3	3
Furnaces out of shape	4	3
Boilers without fusible plugs	11	5
Boilers low at front end	6	1
Cases of serious leakage of fittings	25	..
Number of hand-holes, doors having bolts and dogs burned off	3	1
Defects in engines	4	1
Boilers without hand-holes	21	6
Boilers with bad-fitting hand-holes	24	9
Boilers without stop-valves	1	..
Cases of defective steam-pipes	10	..
Unclassified defects	136	7
Total	1,031	264

G. O. Madigan,
P. A. Goepel,
F. Biggam,
F. Bath,
Inspectors of Steam-boilers, District D.

Inspector's Report, District E.

REVELSTOKE, B.C., January 2nd, 1913.

John Peck, Esq.,
Chief Inspector of Machinery, New Westminster, B.C.

SIR,—I have the honour to submit the following report for the year ending December 31st, 1912:—

During the year no boiler-explosions have occurred; there have not been any fatal accidents, nor any of even a serious nature.

Two accidents happened to steam-engines. The valve-chest of a Buckeye engine was burst by water-hammer when the engine was being warmed up. The steam-turbine at Golden had a number of rows of stator and rotor blades stripped out on two occasions, causing serious stoppages to the mill. There seems to be no doubt that these accidents happened through the condenser, which is of the barometric type, being flooded by condensing-water which got up past the goose-neck and ran down into the L.P. end of the turbine. Since a regulating-valve has been placed on the discharge from the circulating-pump and a water-gauge glass placed on the condenser-head, no further trouble has been encountered.

Two sawmills were burned down during the year, but both have been rebuilt. In only one case was the boiler plant damaged, and that not seriously.

Two boilers were found with the plates seriously cracked at the back heads, and three more had minor cracks on the back heads. All these cracks took place immediately behind the angle-irons used as fastenings for the lower through stays.

One safety-valve was found inoperative. This was on a low-pressure cast-iron boiler which was being inspected for the first time.

One cast-iron sectional boiler was found with five sections cracked, and four of the same type of boiler had one section cracked in each.

The boilers noted without stop-valves and fusible plugs were all of the low-pressure type.

One small locomotive was damaged by low water. This happened while the nightwatchman was in charge.

One return-tubular boiler was also slightly damaged by low water; the fire was not drawn in time and the fusible plug melted.

Eleven old boilers were inspected for the first time. These had been in the Province for years, but had not previously been found by an Inspector, or were not in use when he was around. Of these, three were in Cariboo, three in the Okanagan, and five in Windermere Valley, in which latter place an inspection of boilers was made this year for the first time.

The burned plates referred to in the tabulated report were almost all on second-hand boilers imported from the United States of America, and were being used on railway-construction work.

Several Government boilers were inspected, but no fees were collected for them, as this was prior to arrangements being made to collect fees for these.

Eighty-four boilers were inspected for the first time; of these, forty-one were new and forty-three second-hand. Most of the latter were small boilers used on railroad-construction work.

The Arrow Lake Sawmills at Arrowhead and Kamloops, as well as the Lee Lumber Company, Palliser Lumber Company, and Iron Mask Mines, did not operate this year and were not inspected.

Seventy-two more boilers were inspected this year than last year, but on account of all the new boilers being so small the average horse-power per boiler fell from 46.4 to 40.4, and the average fees per boiler from $7.93 to $6.80.

This year, as well as making inspections in the Cariboo country, I went 114 miles up the North Thompson River along the C.N.R. construction.

After 1913, when the G.T.P. is completed, it will not be possible for me to inspect the Cariboo District from this end, and I would suggest that it be looked after by the Inspector who will have charge of the territory adjacent to the Pacific Great Eastern Railroad. At present there are only thirteen boilers in operation between Ashcroft and Barkerville, to inspect which I have to travel 600 miles by stage, and the trip occupies from four to five weeks.

With the advent of the P.G.E. Railway a large number of boilers will undoubtedly go into the Lillooet and Chilcotin Districts, but there does not seem to be any prospect of any more going in along the Cariboo Road.

Trusting that this report will meet with your approval,

I have, etc.,
John D. Kay,
Inspector, District E.

Engineers' Examinations.

Number of applications for examinations	57
Number of applications for re-examination	1
Number of applications approved	56
Examination fees	$235.00

Results of Examinations.

Class.	No. examined.	Passed.	Failed.
Second	2	1	1
Third	11	9	2
Fourth	62	51	11
Temporary	20	19	1
Special heating	6	6	..
Special logging-locomotive	5	5	..
Special logging-donkey	6	6	..
Special road-roller	2	2	..
Totals	114	99	15

Remarks.

General examinations were held three times at Revelstoke, Kamloops, Vernon, and Golden. Examinations were also held at Athalmer and Ashcroft.

The amount of fees collected in this district is due to the number of men coming up to the general examinations without having had time to send their applications to Head Office. A large number of temporary certificates issued were for low-pressure heating plants.

Summary of Work done in District E in 1912.

Number of boilers built under inspection in Eastern Canada	5
" boilers built in Eastern Canada not under inspection	37
" new boilers inspected built in United States	14
" new boilers inspected built in British Columbia	3
" new boilers inspected (total)	41
" boilers imported from Eastern Canada (second-hand)	1
" boilers imported from United States (second-hand)	13
" old boilers not previously inspected in British Columbia	11
" first inspections	84
" inspections, external and internal	268
" external inspections only	14
" special inspections after repairs	21
" visits in addition to inspections	209
" boilers subjected to hydrostatic test	249
" boilers on which pressure was reduced	5
" boilers unsafe without extensive repairs	7
" boilers repaired under Inspector's directions	22
" boilers considered unfit for further use	1
" accidents to engines and boilers	9
" investigations	4
" inspections completed	268
Total horse-power of boilers inspected	10,833
Number of defects observed as per summary	451
Number of defects considered dangerous	3
Inspection fees earned	$1,822.50
Inspection fees collected	1,783 70

SUMMARY OF WORK DONE IN DISTRICT E IN 1912.—*Concluded.*

Miles travelled by the Inspector	7,693
Letters inward	416
Letters outward	415
Telegrams inward	35
Telegrams outward	29
Boilers taken out of service	13

WORK DONE BY OTHER INSPECTORS FOR THIS DISTRICT.

The following boilers were inspected or partly inspected by other Inspectors: four partly inspected by District A; one partly inspected by District B; five inspected or partly inspected by District D.

SUMMARY OF DEFECTS OBSERVED.

Nature of Defects.	Number.	Dangerous.
Boilers with safety-valves inoperative	1	1
Boilers with safety-valves overloaded	1	..
Boilers with safety-valves defective in construction	5	..
Boilers without pressure-gauges	1	..
Pressure-gauges inoperative	1	..
Pressure-gauges defective	19	..
Cases of insufficient staying or bracing	4	..
" defective stays	2	..
" broken rivets	5	..
" defective riveting	4	..
" loose stays or braces	6	..
Boilers damaged by low water	2	..
Defective settings	10	..
Boilers with fractured plates	19	2
" burned plates	13	..
" blistered plates	1	..
Cases of sediment on fire-sheets	24	..
" internal corrosion	23	..
" scale or encrustation	68	..
" internal grooving	3	..
" external corrosion	62	..
" defective tubes	6	..
" defective feed-water arrangement	4	..
" broken feed-valves	2	..
Serious leakage around tube-ends	1	..
Serious leakage in rivet-joints	3	..
Defective blow-off pipes or cocks	9	..
Defective water-gauges	8	..
Broken blow-off pipes or cocks	3	..
Water columns without blow-outs	19	..
Cases of broken test-cocks	49	..
Connections to water-columns without valves	11	..
Neutral sheets not stayed	2	..
Boilers without fusible plugs	30	..
Boilers low at front end	8	..
Cases of serious leakage of fittings	2	..
Defects in engines	1	..
Boilers without hand-holes	1	..
Boilers without stop-valves	17	..
Cases of defective steam-pipes	1	..
Total	451	3

JOHN D. KAY,
Inspector of Steam-boilers, District E.

LIST OF REGISTERED DESIGNS.

List of Boiler Manufacturers, with their Number of Approved and Registered Designs.

Albion Iron Works, Vancouver, B.C.	17
Allbright Nell Company, Chicago, U.S.A.	1
American Locomotive Co., New York, U.S.A.	5
American Hoist & Derrick Co., St. Paul, Minn., U.S.A.	16
Ames Iron Works, Oswego, N.Y., U.S.A.	4
American Radiator Co. of Canada, Ltd., Toronto, Ont.	10
Atlas Engine Works, Indianapolis, U.S.A.	1
Averling & Porter, Ltd., Rochester, England	1
Avery Company, Peoria, Ill., U.S.A.	2
Babcock & Wilcox, Ltd., Renfrew, Scotland	9
Baldwin Loco. Works, Philadelphia, U.S.A.	9
Beatty, M., & Sons, Ltd., Welland, Ont.	9
Bell, Robt., Engine & Thresher Co., Ltd., Seaforth, Ont.	2
Berninghaus, Ewald, Duisburg, Germany	2
Berg Machinery Mfg. Co., Ltd., Toronto, Ont.	2
B.C. Marine Rys. Co., Ltd., Victoria and Vancouver, B.C.	2
Bros. Wm., Minneapolis, U.S.A.	4
Brown Hoisting Co., The, Cleveland, O., U.S.A.	1
Browning Engineering Co., Cleveland, O., U.S.A.	1
Bucyrus Co., South Milwaukee, Wis., U.S.A.	11
Buffalo Steam Roller Co., Buffalo, N.Y., U.S.A.	1
Canada Foundry Co., Ltd., Toronto, Ont.	22
Canada Iron Corporation, Ltd., Midland, Ont.	6
Canadian Talbot Boiler Co., Vancouver, B.C.	1
Case, J. I., Threshing Machine Co., Racine, Wis., U.S.A.	15
Casey Hedges Co., Chattanooga, Tenn., U.S.A.	1
Continental Iron Works, New York, U.S.A.	1
Columbiana Boiler Works Co., Columbiana, O., U.S.A.	4
Clayton Sons & Co., Leeds, England	1
Climax Mfg. Co., Corry, Pa., U.S.A.	4
Cochran & Co., Annan, Scotland	1
Clyde Iron Works, Duluth Minn., U.S.A.	8
Davenport Loco. Works, Iowa, U.S.A.	13
Diamond Boiler Works Co., Minneapolis, Minn., U.S.A.	1
Doty Engine Works Co., Goderich, Ont.	5
Dutton Co., C. H., Kalamzoo, Mich., U.S.A.	8
Erie City Iron Works, Erie, Pa., U.S.A.	10
Farquhar Co., A. B., York, Penn., U.S.A.	2
Fodens, Limited, Sandbach, England	2
Frost Mfg. Co., Galesburg, Ill., U.S.A	22
Gaar Scott & Co., Richmond, Ind., U.S.A.	1
Gray, Andrew, Marine Iron Works, Victoria, B.C.	8
Georgian Bay Engine Works, Midland, Ont.	1
Gem City Boiler Works, Dayton, O., U.S.A.	1
Goldie McCullock Co., Ltd., Galt, Ont.	33
Grafton & Co., Ltd., Bedford, England	1
Grand Trunk Pacific Railway Co	1
Gurney Foundry Co., Ltd., Toronto, Ont.	5
Hamilton Mfg. Co., Wm., Peterborough, Ont.	1
Heisler Locomotive Works, Erie, Pa., U.S.A.	12
Howard, J. & F., Bedford, England	2
Holt Mfg. Co., Stockton, Pa., U.S.A.	2
Houston, Stanwood & Gamble, Cincinnati, O., U.S.A.	1
Ingles Co., Ltd., Jno., Toronto, Ont.	6
Industrial Works, Bay City, Mich., U.S.A.	1
Jenckes Machine Co., Ltd., St. Catharines, Ont.	74
Johnston Bros., Ferryburg, Mich., U.S.A.	12
Kelly-Springfield Road-Roller Co., Springfield, O., U.S.A.	1
Kewanee Boiler Co., Kewanee, Ill., U.S.A.	14
Leonard & Sons, E., London, Ont.	30
Leffel & Co., Jas., Springfield, O., U.S.A.	1

LIST OF REGISTERED DESIGNS.—*Concluded.*

Lima Locomotive & Machine Co., Lima, O., U.S.A.	19
Mann Patent Steam Cart & Wagon Co., Leeds, England	3
Manitowic Boiler Works, Manitowic, Wis., U.S.A.	2
Marine Iron Works, Victoria, B.C.	8
McDougall, Jno., Caledonian Iron Works Co., Ltd., Montreal	2
Mainland Iron Works, Vancouver, B.C	1
Marsh & Henthorn, Bellville, Ont	9
Marshall Sons & Co., Ltd., Gainsborough, England	1
Matheson & Co., Ltd., I., New Glasgow, N.S.	3
Marion Steam Shovel Co., Marion, O., U.S.A.	22
Marion Osgood Co., Marion, O., U.S.A	2
Montreal Loco. Works, Ltd., Montreal	2
Nagle Engine & Boiler Works, Erie, Pa., U.S.A	1
North Shore Iron Works, Ltd., North Vancouver, B.C	14
Oil City Boiler Works, Oil City, Pa., U.S.A.	1
Orr & Sembower, Reading, Pa., U.S.A.	6
Pennsylvania Boiler Works, Erie, Pa., U.S.A	3
Polson Iron Works, Ltd., Toronto, Ont	1
Porter, H. K. Porter Co., Pittsburg, Pa., U.S.A.	8
Puget Sound Iron & Steel Works, Tacoma, Wash	2
Risdon Iron & Loco. Works, San Francisco, Cal., U.S.A.	1
Robb Engineering Co., Ltd., Amherst, N.S.	26
Robey & Co., Lincoln, England	2
Ross & Howard Iron Works Co., Ltd., Vancouver, B.C	25
Ruston, Proctor & Company, Lincoln, England	7
Sawyer & Massey Co., Ltd., Hamilton, Ont	8
Stearns Company, Erie, Pa., U.S.A.	1
Sumner Iron Works, Everett, Wash., U.S.A	1
Swift & Co., Chicago, Ill., U.S.A	1
Standard Iron Works, Vancouver, B.C	1
Thew Automatic Shovel Co., Lorain, O., U.S.A	1
Toronto Iron Works, Ltd., Toronto, Ont	1
Twohy Bros. Co., Portland, Ore., U.S.A	1
Union Iron Works, Erie, Pa., U.S.A	27
Vancouver Engineering Works, Ltd., Vancouver, B.C	28
Victoria Machinery Depot Co., Ltd., Victoria, B.C	28
Vulcan Iron Works, New Westminster, B.C	22
Vulcan Iron Works, Seattle, Wash., U.S.A	1
Vulcan Iron Works, Wilkes Barre, Pa., U.S.A	1
Waterous Engine Works Co., Ltd., Brantford, Ont	48
Washington Iron Works, Seattle, Wash., U.S.A.	31
Wickes Boiler Co., Saginaw Mich	1
Williamette Iron & Steel Works, Portland, Ore., U.S.A.	1

LIST OF MAKERS WHO HAVE REGISTERED AND APPROVED SPRING POP SAFETY-VALVE DESIGNS.

	6 in.	5 in.	4½ in.	4 in.	3½ in.	3 in.	2½ in.	2 in.	1½ in.	1½ in.	1 in.	¾ in.	⅛ in.
American Steam Gauge & Valve Co.. Boston, U.S.A.	....	1	1	1	2	2	5	5	3	3	2	2	....
Ashton Valve Co., Boston, U.S.A.	....	....	....	3	....	....	....	....	....	....	....	....	....
Consolidated Safety Valve Co., New York, U.S.A.	....	....	....	....	....	....	....	1	....	....	....	....	....
Crane Company, Chicago, Ill., U.S.A.	1	1	1	1	1	1	1	2	2	2	3	2	2
Crosby Steam Gauge & Valve Co., Chicago, U.S.A.	....	....	....	....	....	2	3	1	1	....	....	....	....
E. Leonard & Sons, London, Ont	....	....	....	....	....	1	1	1	1	....	....	....	....
J. E. Lonergan Co., Philadelphia, U.S.A.	....	....	....	....	....	1	1	2	2	1	1	....	....
Lunkenheimer Co., Cincinnati, U.S.A.	....	1	1	1	1	3	3	3	1	1	1	1	1
James Morrison Brass Mfg. Co., Toronto	....	....	....	....	....	1	3	....	1	....	....	....	....
T. McAvity & Sons, St. John, N.B.	....	....	....	1	....	1	1	6	....	1	....	....	....
Rushton Proctor Co., Lincoln, England	....	....	....	....	....	....	....	....	1	....	....	....	....
Robb Engineering Works Co., Ltd., Amherst, N.S.	....	....	....	....	....	1	....	....	....	....	....	....	....
Waterous Engine Works Co., Ltd., Brantford, Ont	....	....	....	....	....	1	....	....	....	....	....	....	....

ENGINEERS WHO OBTAINED CERTIFICATES IN 1912.

First Class.

Boothman, Tom	7,312
Carruthers, J. A	6,831
Duckitt, Louis	6,849
Jones, A. E. Bazett	6,875
Smith, A. M	6,912
Tait, J. B	6,920
Watt, J. W	6,927
Walker, T. W	7,164
Worth, Herbert	6,931

Second Class.

Anderson, T. F	6,818
Barnard, T. A	6,737
Bell, A. P	7,352
Chapman, Harold	6,964
Dykes, R. H	6,585
Ekstein, V. A	5,751
Findlay, Goe	6,565
Greenhill, W. S	6,389
Hodgson, B. B	7,058
Hollins, Evelyn	7,370
Hynd, D. B	7,329
Jeffrey, A. E	7,246
Jones, F. S	6,711
Kilvert, J. J	6,667
Morton, J. F	6,414
McGregor, J. C	6,614
McLeod, Robert	7,146
Macmillan, C. C	6,676
Palmer, A. G	7,261
Petrie, R. F	7,388
Porteous, T. C	6,335
Roberts, S. R	6,908
Stirling, Jas	6,441
Thomson, Geo	6,808
Watt, J. F	6,534
Williamson, J. H	6,536
Worth, Herbert	6,642

Third Class.

Alexander, W. L	6,277
Arthur, David	6,358
Ayre, Jas	7,021
Baker, H. A	7,171
Bearpark, Frank	6,645
Bennett, Wm	6,824
Beeson, E. T	7,112
Bisset, Arthur	6,738
Blake, J. H	6,362
Bowden, James	7,234
Brill, George	6,740
Bristol, Harry	7,025
Buckton, H. J	7,314
Calder, Louis	6,367
Carlile, L. E	7,027
Calbick, F. W	7,029
Chandler, F. W	6,940
Clapperton, W. G	6,461
Comrod, S. A	6,369
Cockle, Hubert	6,462
Cowan, E. S	6,692
Cornwall, I. E	6,841
Cook, Jas	7,410
Cunningham, J. W	7,180
Daynor, T. L	6,844
Davis, Ernest	6,968
Dickson, Isiah	6,561
Domoney, H. E	6,584
Dunkley, T. L	7,183
Ellison, J. H	6,378
Evans, Geo	7,322
Fethcer, Elemer	7,043
Ford; A. W	6,299
Foot, H. H	6,971
Fraser, Chas	7,324
Gillis, J. E	7,327
Glen, S. J	6,702
Goodall, John	7,049
Graham, W. A	6,473
Gregory, A. B	6,705
Gray, Jas	6,704
Green, U. K	7,050
Green, John	7,241
Gray, W. R	7,365
Guswell, N. R	6,390
Gulstad, I. B	6,474
Harrop, Jno	6,391
Hardy, Thos	6,595
Halifax, John	6,707
Hart, Geo	6,861
Haddow, Andrew	6,976
Harrison, Oliver	7,192
Hamilton, Nathaniel	7,194
Harris, G. A	7,196
Hentschel, M.A	6,574
Heindel, C. L	6,864
Head, Walter	7,135
Hendrie, Jas	7,242
Helmers, E. V	7,414
Hoffmeister, August	7,199
Hulmes, Jas	6,977
Humphreys, R. V	7.371
Hyatt, W. S	6,762
Jackson, G. H	6,399
Jelly, Alfred	6,400
Jones, S. W	6,765
Johnson, D. A	6,766
Johnston, Jno	7,419
Kendal, H. S	6,403
Kemsley, E. J	6,487
Lambert, W. F	7,072
Liebenschel, E. P	6,405
Livingstone, Ewen	7,073
Littig, J. B	7,425
Low, Albert	6,315
Lobben, Jno	6,713
Maxwell, W. G	7,141
Mathison, A. A	7,203

THIRD CLASS—*Concluded.*

Marsball, E. H.	7,205	Rolston, Robt.	6,906
Mercer, C. H.	6,319	Reed, H. J	6,723
Miles, Walter	6,320	Reynolds, R. L.	7,000
Mitchell, Greenwood	7,298	Richardson, J. J.	6,625
Morrison, A. L.	6,410	Robson, Walter	7,338
Moulthrop, I. S.	6,415	Roberts, W. H.	6,436
Morley, Harry	6,497	Russell, L.L.	7,267
Morton, D. A.	6,780	Sarber, E. M.	6,342
Munroe, Jas	6,323	Schaefer, T. M.	6,515
Mewlock, J. I	6,608	Scott, T. S.	7,004
Murray, R. T. M.	6,610	Scott, Jas	7,268
Murphy, J. A.	6,672	Shawcross, C. G.	7,225
Mylroie, F. S.	6,417	Shaw, Jos	7,269
McCarthy, H. O	6,419	Simpson, C. W	6,803
McCallum, Ernest	6,612	Smith, Percival	6,344
McDougall, Jno	6,420	Smith, David	6,915
McEachern, Malcolm	7,078	Somerville, Alex	6,730
McKay, J. W.	6,991	Stevenson, T. L.	6,346
Macmillan, J. C.	6,785	Stumbles, H. S.	6,524
McMillan, Alexander	6,786	Stout, Oliver	6,805
MacNorton, W. N	6,425	Street, J. F.	7,098
McRae, Jno	7,431	Steele, Robt	7,443
North, Geo	6,792	Stobo, R. E.	7,444
Nyman, A. R.	6,330	Taylor, R. L.	6,631
O'Neill, Francis	6,899	Thompson, A. T	6,444
Parkyn, W. N	6,509	Tumilty, Jno	6,926
Parkhill, F. M	6,718	Wallace, Jno	6,928
Palmer, Robt	6,794	Weekman, Jos	6,448
Playmen, J. W	7,085	Whall, C. J.	6,449
Pleiman, A. H	7,086	Whitton, Wm	6,639
Potter, E. J	6,795	Whitehead, Martin	7,273
Pringle, R. W	6,621	Wilson, D. P.	6,353
Prendiville, Ed	6,720	Wilson, J. L.	6,354
Priestman, G. R	7.390	Woolcock, G. T.	7,343
Railton, G. E.	6,797		

FOURTH CLASS.

Abercrombie, J. L.	6,274	Bristol, Harry	6,742
Abernethy, Wm	7,108	Brown, Isaac	7,024
Adams, Wm	7,018	Bruce, Jno	7,114
Akerberg, S. B. F.	7,168	Bradley, Homer	7,235
Alcock, Albert	6,451	Briggs, Tom	7,236
Alton, Thos.	6,815	Bullock, C. R.	6,556
Alexander, Alex.	7,311	Burgess, Benjamin	6,647
Andre, Emilien	6,356	Bullock, W. G.	7,115
Anderson, Frank	6,357	Butterworth, Malcolm	7,354
Anderson, H. B.	6,817	Casserly, Jno	6,283
Anderson, Jas.	6,958	Carter, Jos.	6,284
App, Geo.	6,948	Cave, F. G.	6,285
Archibald, T. D.	6,452	Cassin, T. J.	6,286
Armstrong, A. H.	6,543	Camlin, Jos.	6,541
Augustson, Jno.	6,736	Carmichael, W. J.	6,553
Austin, D. P.	6,819	Campbell, R. D.	6,557
Ayre, Jas.	6,453	Carroll, Jno	6,833
Baker, Ed.	6,278	Calvert, Thos.	6,834
Barnes, Jos.	6,360	Caley, Frank	6,963
Barkley, W. H.	6,545	Chadwick, Archie	6,287
Balo, Ed.	6,821	Childs, G. W., Jr.	6,288
Bartle, J. E.	6,822	Chattell, Thos.	6,289
Bain, Jno.	6,830	Chapman, S. W.	7,177
Barrett, L. J.	7,278	Chisholm, J. H.	7,281
Benzie, Samuel	6,551	Clarke, E. L.	6,691
Becker, Frederick	7,022	Cloughly, Albert	6,745
Beck, Fred'k	7,111	Clark, Thos.	6,836
Bluett, E. K.	6,455	Clifford, Arthur	6,837
Bloom, Bennie	6,456	Corbett, Samuel	6,290
Bone, Geo.	6,280	Connelly, M. C.	6,478
Bouck, Henry	6,826	Corning, K. S.	6,546
Bostock, E. L.	7,173	Cole, G. C.	6,582
Brown, J. E.	6,281	Cook, S. G.	6,746
Brewer, W. C.	6,741	Cole, Thos.	6,840

Fourth Class.—*Continued.*

Cole, Jas.	7,031
Comstock, D. J.	7,032
Colauh, Angelo	7,033
Cornoch, Sidney	7,178
Crow, E. H.	6,291
Cronin, W. T.	6,465
Crader, Jacob	6,558
Craig, W. H.	7,034
Crowder, F. H. W.	7,317
Cronin, J. S.	7,356
Cunningham, Otto	6,542
Currie, H. W.	7,318
Cyphers, Chas.	6,466
Cyr, O. D.	6,966
Devers, Patrick	6,548
Delaney, Jno.	7,119
De La Rose, Chas.	7,285
Diggins, D. S.	6,272
Dinick, Percy	7,037
Dierksen, Wm.	7,120
Douglas, John	6,373
Donnelly, N. L.	6,468
Dowling, Harry	7,412
Driscoll, Jno.	6,375
Drake, F. J.	6,562
Dumaresq, S. J.	6,296
Dumar, W. H.	6,376
Duncanson, C. E.	6,848
Dwyer, Jno.	7,184
Egildson, Jos.	7,123
Edison, Ira	7,041
Ellicott, Thos.	6,697
Elliott, A. R.	6,752
Ellis, Ralph	6,753
Emery, Jesse	6,549
Emery, B. G.	6,754
England, A. E.	6,594
Epperson, J. J.	6,563
Esnouf, Fred	7,125
Evans, S. T.	6,380
Evans, E. J	6,850
Fairclough, Bernard	6,381
Faust, G. D	6,970
Ferguson, W. B.	7,044
Finch, N. F.	6,382
Floyd, Wm.	6,698
Fowler, Enoch	6,300
Fox, J. W	6,854
Forbes, Donald	7,045
Fournier, Louis	7,323
Frederick, Gordon	6,587
Frew, David	6,855
Gautheir, Paul	6,386
Gardner, F. J.	6,657
Ganter, E. J.	6,701
Gammon, P. F	6,973
Galbraith, J. A	7,326
Genge, Jno	6,388
Georgenson, Ander	6,567
Gilmour, Jas.	6,566
Gibbard, Walter	6,856
Goldsmith, Geo	6,304
Goss, Jas	7,189
Graham, J. A.	6,305
Graham, F. S.	6,306
Graves, O. W.	7,413
Hansen, H. L.	6,570
Hayes, Jno.	6,572
Hayes, J. B	6,706
Hayes, Thos	6,709
Hamilton, Jas.	6,757
Halford, A. J	6,862
Hays, M. L.	7,053
Harris, Geo.	7,132
Hattie, J. J	7,328
Handley, O. H	7,367
Herbert, W. H.	6,575
Helmers, E. V	6,661
Herriott, A. E	6,759
Heslop, Henry	6,865
Henry, W. M.	7,197
Hill, C. E	6,760
Hiscox, F. W.	7,289
Hines, S. C	7,369
Holding, Henry, Jr	6,394
Hoggard, Jno.	6,395
Holland, G. A	6,577
Howard, W. V	6,662
Holmstad, F. W	6,663
Howard, J. B	6,867
Hunt, L. G	6,579
Humphrey, F. E	6,596
Hulm, Albert.	6,665
Hyacinthe, Briant	7,060
Irwin, W. J	6,763
James, W. H	6,872
Jones, Jas	6,401
Jose, M. L	6,531
Johnston, Clinton	6,600
Johnston, R. A	6,978
Johns, Jos.	7,247
Johnson, W. G	7,373
Justice, Wm.	7,066
Keeler, C. A	6,876
Keighton, W. A	6,877
Keeping, A. C	6,979
King, Chas	6,311
Kirby, Percival	6,668
Kingsley, E. R.	6,768
Kirkpatrick, Samuel	7,067
Kukol, Franz	6,980
Laing, Alex.	6,491
Laird, Douglas	6,589
Lasley, Chas.	6,601
Laughlin, C. E.	6,882
Lachance, Henry	7,071
Levecque, Vital	6,404
Leven, W. L.	6,493
Leonard, F. M.	6,712
Leith, G. A.	6,772
Litt, Wm	7,424
Lloyd, C. P.	6,590
Lowerison, R. B	6,669
Lockead, C. D	6,982
Low, J. D	6,983
Lochead, H. C.	7,292
Luscombe, C. F	6,317
Lynch, Felix	6,408
Mair, W. H	6,602
Malcolm, Wm	7,074
Martin, W. T.	7,139
Marshall, Morrow	7,204
Mather, R. W	7,297
Metcalf, C. L	7,076
Mills, Geo	6,321
Mitchell, Alex	6,496
Miller, Jas	6,606
Mittlstadt, H. W	6,888
Milne, J. W	7,374
Morgan, Jno.	6,322
Morgan, R. O.	6,411
Morrison, K. J.	6,891
Murreell, Geo.	6,324
Munkwitz, H. W.	6,416

FOURTH CLASS—*Concluded.*

Murphy, Jos	6,989
Muir, Geo	7,427
McAskill, Angus	7,334
McCulloch, J. F	6,781
McDonald, J. D	6,893
Macdonald, Jno	6,990
McDonald, Alex	7,209
McDonald, J. P	7,252
McGowan, J. J	6,326
McQuire, Patrick	6,950
McIntosh, R. S	6,502
McIntosh, G. B	6,782
McKay, A. J	6,992
McLellan, J. A	6,327
MacLachlan, Hubert	6,423
McLean, A. D	6,503
McLean, W. J	6,715
McLaughlin, Thos	6,784
McMillan, J. H	7,212
McNerney, P. J	6,424
McNelly, Alfred	6,993
McNabb, Jos	7,377
MacPherson, John	7,378
McRae, Jno	6,328
Nelson, E. L	6,677
Netherton, Wm	6,789
Neale, Jos	6,790
Neal, F. R	7,383
Nixon, L. H	6,896
Nicholl, T. H	6,994
Nicholl, Jno	7,216
Nobles, E. B	6,506
Oddy, Jno	6,898
Olson, Abel	6,428
O'Leary, Daniel	6,793
Orme, Alexander	7,432
Osborn, E.A	6,995
Ovens, J. S	7,385
Palmer, Rolph	6,429
Park, Wm	6,431
Pattinson, G. C	6,508
Patterson, E. O	6,996
Parkerm, G. H	7,082
Payne, R. K	7,148
Penfold, Wm	6,620
Pearl, W. S	6,719
Pentinan, Edgar	7,083
Philpott, Wilfrid	6,998
Posey, Anthony	6,433
Poskitt, Frank	7,087
Publicover, W. S	6,905
Quissy, F. J	7,336
Raeburn, Robt	6,434
Radtke, C. A	6,623
Rattray, Wm	6,721
Rault, Mathurin	7,088
Renstrom, Ole	6,722
Rea, W. H	6,907
Restall, G. A	7,392
Reeve, Jno	7,437
Ritchie, Robt	6,337
Rippon, J. J	7,150
Richards, Ed	7,223
Ridgway, Fred	7,393
Roberts, D. A	6,339
Ross, E. D	7,002
Russell, Wm	6,801
Ryan, T. F	7,394
Ryley, T. H	7,438
Sayle, T. R	7,089
Salter, W. A	7,440
Scott, Jas	6,438
Scobie, Hervie	6,626
Scothorn, J. T	7,005
Scott, J. L	7,090
Scott, W. J	7,091
Scanlin, Ed	7,300
Scott, Thos	7,301
Schultz, Gustav	7,396
Seaton. Harry	7,153
Seaberg, Henry	7,441
Shoemaker, J. B	7,095
Shawyer, W. C	7,154
Shinek, Arthur	7,338
Silver, W. J	6,516
Singleton, T. A	7,006
Silver, J. I	7,008
Slater, W. F	6,519
Smith, L. E	6,345
Smith, A. W	6,440
Smith, P. N	6,728
Smith, Robt	6,729
Smith, C. T	6,914
Smith, J. F	7,009
Smith, W. J. R	7,096
Smith, Jno	7,155
Smith, Jno	7,442
Stokes, Wm	6,683
Stewart, E. R	6,630
Steele, H. W	6,804
Steadman, L. B	6,917
Stringfield, N. H	6,918
Statham, R. J	7,157
Stewart, E. O	7,226
Stapleton, Jno	7,445
Sutherland, Jno	6,349
Summerby, T. G	6,442
Sutherland, J. G	6,806
Swope, H. W	6,807
Taylor, Geo	7,339
Thompson, A. F	6,809
Thomson, J. G	6,921
Thomson, Alex	7,341
Thompson, Raymond	7,401
Tobey, L. C	6,527
Todd, J. E	7,101
Triplett, J. W	7,229
Tuyttens, Jerome	6,528
Vassur, Anthony	6,446
Vaughan, C. L	6,633
Vaton, Harry	6,732
Van Etton, C. W	6,811
Vickers, Geo	6,447
Vozza, Louis	6,351
Watt, G. J	6,533
Wallace, J. L	6,535
Walker, W. J	6,634
Walker, W. M	6,635
Walton, J. T	6,636
Warren, C. H	6,929
Wagner, W. T	7,016
Wallace, J. E	7,454
Webb, Edwin	7,272
White, Harry	6,638
Wheelhouse, Ernest	7,306
Williams, Thos	6,537
Wilson, J. D	6,641
Wilband, J. P	6,814
Williams, S. L	7,105
Wooton, G. F	6,643
Wood, R. H	6,930
Wood, J. A	7,017
Wohlander, Ernst	7,404
Wright, Irvin	6,644
Yarbrough, J. H	6,932
Young, E. W	6,933

Special Logging-donkey.

Adkins, Edmund	7,109
Anderson, Chas	6,257
Anderson, Albert	6,276
Appleby, Marshall	7,232
Baker, Ed	4,514
Bales, Jas	7,279
Baker, Oscar	4,988
Bergstrom, Alfred	6,646
Bell, W. S	6,823
Benson, Jno	6,937
Beauchene, A. J	7,353
Boyd, Robert	5,298
Bordman, G. B	6,364
Bradford, Henry	6,476
Brwein, E. W	6,959
Brown, M. H	7,280
Butterworth, Malcolm	6,486
Caswell, Jos	5,129
Carmichael, J. C	6,649
Cartwright, Albert	6,832
Carney, Thos	7,176
Calahan, W. W	7,315
Crossley, Mandrick	5,722
Davis, O. G	4,674
Deadman, G. J	5,657
Deroshia, A. J	6,653
Degross, Wm	5,845
Dillon, Robt	5,130
Dougan, J. B	4,638
Dolling, G. G. G	6,846
Freeman, Morris	6,676
Fuller, A. J	5,366
Gardineer, E. W	6,700
Gillihan, C. W	5,694
Good, J. R	4,530
Graves, O. W	7,288
Hall, Robt	4,575
Hale, P. O	5,784
Harmston, Toynby	6,480
Habol, Alex	6,975
Harrigan, W. J	7,455
Herriwig, H. F	4,825
Hermanson, Helmer	6,482
Helm, Eugene	6,945
Hindman, Roy	5,400
Hunt, F. E	6,761
Ironside, A. G	6,871
Jennings, G. F	5,715
Jellen, Frank	6,874
Kobler, Victor	5,370
Kobler, Arnold	6,489
Laviolette, Phillip	5,444
Lambert, Jos	6,313
Leacock, W. C	4,523
Liden, Eric	4,679
Linville, Lloyd	6,884
Linville, T. F	6,885
Loughead, Geo	4,680
Loughead, H. C	5,175
Matson, Hermon	7,202
Mercier, Alex	6,779
Miller, O. R	5,553
Mitchell, Julius	6,887
Morris, Arch	5,149
Monahon, M. N	6,413
Morton, Adam	6,499
Morrison, Fredk	6,500
Murphy, J. A	4,764
McCully, Archie	4,534
McDougall, Richard	5,762
McDonald, A. L	6,077
McEwen, Donald	4,605
McKenzie, R. V	5,871
McKenzie, Angus	6,160
MacKinnon, Jos	6,675
McLeod, R. J	4,669
McMillan, A. J	7,079
McQuin, J. G	5,767
Oleson, Oliver	7,080
Palmer, Michael	6,901
Perkins, Gladstone	6,333
Perrin, Louis	6,679
Phelps, Willie	4,992
Piper, H. E	7,221
Pratt, Ed	4,779
Roder, Stavro	4,879
Ross, J. S	6,725
Runely, P. H	4,661
Seeley, L. W	7,337
Shortall, J. W	5,897
Sinclair, C. E	5,457
Sikes, Wellington	7,007
Smith, B. E	4,785
Snowden, Jas	4,787
Spencer, C. W	7,303
Steigenberger, Harvey	4,989
Stephens, J. A	6,684
St. Denis, W. A	6,687
Steincamp, Felix	7,011
Stevenson, D. M	7,012
Taylor, Geo	5,817
Thibault, Louis	5,376
Tucker, T. J	7,014
Uber, Jno	6,688
Wagner, W. E	6,081
White, Harry	6,039
Williams, David	6,733
Withro, S. J	7,403

Special Logging-locomotive.

Arbean, F. W	4,704
Carroll, Jno	6,458
Cullen, Con	5,652
Henderson, Peter	7,368
Hinton, Robt	6,393
Metcalfe, J. E	6,671
McEune, David	6,949
Radtke, Otto	7,149
Richardson, Norman	6,681
Rogers, C. A	6,724
Smith, Chas	6,811
Sturdevent, Frank	6,686
Stroup, A. V	7,304
Wilson, T. J	7,308
Wiest, E. W	7,402

Special Threshing-engine.

Dougan, A. A	6,294
Kirkland, Franklyn	6,878
Tamboline, L. C	6,955
Trim, Jas	6,925

SPECIAL CREAMERY.

Carradice, F. W.	7,238	Hatter, W. J. S.	6,569
Drake, A. W.	6,295	Turner, C. H.	6,531
Enman, R. O.	7,363		

SPECIAL ROAD-ROLLER.

Green, Geo.	6,944	Stewart, D. D.	6,954
Sim, Wm.	6,518	Truax, C. O.	6,632

SPECIAL HEATING.

Benedette, August	6,279	McIntosh, J. C.	7,145
Butt, C. H.	6,385	McKay, C. C.	7,211
Cruttenden, J. H.	6,842	Newbold, Jno.	6,329
Fitch, Thos.	6,383	Nightingale, Jas.	6,895
Frey, Ernest	7,286	Ovens, T. J.	6,716
Harmston, Geo.	7,193	Porter, Thompson	7,389
Hamilton, Wm.	7,366	Roach, Geo.	6,513
Howes, C. M.	6,869	Savage, H. H.	7,395
Hunt, Geo.	6,397	Smith, Owen	7,302
Key, Jas.	7,291	Sterry, T. P.	7,227
Kimball, O. H.	6,880	Turner, Wm.	6,810
Marlow, W. G.	7,140	White, Jos.	7,307
Mercer, J. B.	6,605		

TEMPORARIES.

Alexander, W. A.	7,185	Grove, P. A.	7,162
Algood, Wm.	7,357	Harrison, Oswald	6,471
Anderson, W. H.	6,555	Haggen, O. S.	6,673
Anderson, J. N.	6,919	Hargraves, L. S.	7,186
Anderson, G. C.	7,276	Haslum, T. W.	7,218
Arnold, Charlie	6,858	Harding, H. J	7,345
Arnold, Thos.	7,254	Hampton, Geo	7,405
Astbury, T. E.	6,273	Heindel, C. L.	7,359
Balfour, E. J.	6,312	Hiscock, A. B	7,330
Benjamin, A. N.	7,386	Horth, H. G	6,530
Black, Robt.	6,956	Houson, L. A.	6,774
Boulger, H. D.	7,039	Holiday, C. L.	7,167
Boothroyd, Harold	7,160	How, J. H.	7,187
Bourne, F. H.	7,190	Horton, Maurice	7,231
Byrne, Francis	6,689	Howard, Samuel	7,346
Campbell, Thos.	7,214	Hume, J. P.	7,380
Chaney, Chas.	6,377	Jenkins, Arthur	7,257
Christensen, Anders	7,129	Jones, C. O.	6,599
Chesworth, Alfred	7,255	Johnston, L. A.	7,258
Clarke, H. L.	7,379	Johnson, H. H.	7,331
Cousens, E. S.	6,999	Johnston, Andrew	7,360
Colclough, W. H.	7,287	Kelly, E. J. J.	6,936
Coulter, W. J.	7,294	Knowles, Geo.	7,143
Crane, Walter	6,682	Lemon, J. G.	7,151
Crump, J. C.	6,717	Leisk, J. G.	7,219
Cunningham, Jno.	6,619	LeClair, Thos.	7,215
Dempsey, Michael	6,539	Limb, Alfred	6,678
Dennis, Jno.	7,282	Lindsay, L. H.	7,013
Deverell, Clarence	7,290	Lockner, Jno.	7,260
Dickenson, Chas	6,829	Mitchell, G. G.	7,069
Dunlop, R. J.	6,957	Morrison, Jno	7,347
Edwards, Geo.	7,068	McCauley, Alexander	7,062
English, Alex.	6,851	McCurdy, Jno	7,169
Fink, Morris	6,483	McKinnon, Hector	6,934
Fisk, Walter	6,734	McKay, G. M.	7,163
Fox, E. M.	6,699	McSorley, H J.	7,415
Fox, H. A.	7,256	New, Robt.	7,170
Fraser, David	6,564	North, C. H.	7,130
Frogatt, Willis	6,773	Oliver, W. A.	6,843
Gibbons, H. A.	6,568	Otesen, E. L.	6,935
Glass, Herbert	7,283	Phillips, G. H	7,215
Gore, S. M.	7,191	Pitman, Jos.	7,131
Godden, S. H.	7,344	Powers, O. T.	6,341
Grant, H. R.	6,694	Presby, C. A.	7,275
Grady, I. C.	7,161	Price, Jas.	7,309

Temporaries.—*Concluded.*

Redka, Nikolaus	6,365
Reid, C. H	6,710
Robinson, J. R	6,484
Robertson, W. C	6,695
Rothschild, Nickolas	6,775
Roberts, W. G	7,361
Rutledge, Ed	7,387
Seaton, W. R	7,348
Shuttleworth, Jas	7,343
Simms, C. D	7,277
Sidwell, Wesley	7,295
Singer, Porter	7,310
Sinclair, A. C	7,351
Skotynsky, Geo	7,237
Smith, G. O	7,349
Spencer, W. J	7,063
Stevenson, D. M	6,485
St. Clair, Jno	7,350
Tarry, Frank	6,297
Templeton, Chas	7,284
Thompson, A. J	7,064
Thielen, Oscar	7,070
Thompson, J. G. C	7,325
Underwood, A. E	6,776
Walton, J. T	6,418
Warden, J. G	7,381
Whebell, Creswick	7,220
Wilson, A. W	6,366
Wilson, H. F	6,559
Wingen, Thos	6,941
Wilson, E. V	7,321
Young, Michael	7,040

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