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ANNUAL REPORT

OF THE

# Department of Public Works

OF THE

NORTH-WEST TERRITORIES

1904

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PRINTED BY ORDER OF THE LEGISLATIVE ASSEMBLY

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REGINA :

JOHN A. REID, GOVERNMENT PRINTER

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DEPARTMENT OF PUBLIC WORKS,

REGINA, *March 1, 1905.*

*To His Honour,*

AMÉDÉE EMMANUEL FORGET,

*Lieutenant Governor of the North-West Territories of Canada.*

SIR,—

I have the honour to transmit herewith the Annual Report of the Department of Public Works for the year 1904.

I have the honour to be, Sir,

Your obedient servant,

G. H. V. BULYEA,

*Commissioner of Public Works.*





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DEPARTMENT OF PUBLIC WORKS,

REGINA, *March 1, 1905.*

G. H. V. BULYEA, ESQ., M.L.A.,

*Commissioner of Public Works.*

SIR,—I have the honour to submit the Annual Report of the Department of Public Works of the North-West Territories for the year 1904.

The increase and extension in the work of the department, referred to in the last annual report, has continued, which will be found from the detailed information in the following pages. This increase was to be expected from the rapid increase of settlement and extension of the areas within which the department has been called upon to perform public works during the season.

The damage to and destruction of bridges and roads in Eastern Assiniboia, owing to floods caused by melting snow in the latter part of April and May, which completely destroyed a very large number of the old structures, necessitated a very considerable expenditure for new bridges of a much more substantial class than heretofore constructed in the locality mentioned, and a generally favourable season for such works permitted of replacing practically all structures destroyed and completing a large number of other new structures necessitated by the extension of settlement and extension of railways, and while it was not possible to comply with all requests or meet all the requirements, it will be noted that a very much larger number of bridges were constructed or reconstructed than in previous years. The system of putting in steel superstructures as far as possible to meet the expenditure has been followed and an effort made to use concrete substructures in preference to piling and timber. The bridges over the Old Man river near Macleod and the Belly river near Lethbridge were both during the year completed on this class of substructures and the construction of bridge over Bow river near Morley was undertaken and well advanced at the end of the year on the same lines. The replacing of piling and timber substructures supporting some of the older steel bridges with concrete should be carried steadily along to avoid too much of this work coming on at one time, and where possible permanent concrete substructures should be placed in all streams to carry the steel superstructures. It has, however, been impossible, owing to the limited season for the performances of such work, limited means and the fact that bridges had to be provided without delay, to put in as much permanent work as we would like to have done, consequently piling has been used and concrete will be a later consideration. Where conditions are favourable concrete or tile pipe should be used for the smaller sized culverts in connection with road construction, its first cost not exceeding very much that of timber in many localities.

A large amount of road improvements was carried on both in large and small local improvement districts, but in the latter particularly an effort was made to concentrate the improvements on leading trails just as far as possible, it being evident that expenditures on such works, outside of what the local improvement districts are able to perform, should, as

far as possible, be made upon leading trails or roads, with a view of benefiting the largest number of settlers for the expenditure. Generally dry and favourable weather for road work in the latter part of the season, while improving the general condition of roads, also permitted of undertaking improvements where not possible to advantageously do so during the wet seasons, had funds been available for the purpose.

Agreements with the railway companies *re* fireguarding along their lines, entered into in 1902 and carried on for two seasons, were terminated at the end of 1903, the companies continuing the work of maintaining fireguards during 1904. Fireguards outside of these along railway lines were maintained as in previous seasons, and while these guards have not in all cases turned or stopped the fires, the protection given seems to amply warrant the expenditure.

Dry weather through the latter part of the season has again brought up strongly the question of shortage of water in several localities, and the six drilling machines owned by the department were operated steadily up to the end of the year with varied success, and while the percentage of wells in which from fair to good supplies of water were obtained is encouraging, admittedly, the number and class of machines owned by the department is entirely inadequate to meet the requirements, and in localities where supply of water can be obtained at a reasonable depth, the settlers will, undoubtedly, have to make more effort to supply themselves, as we have on hand at present applications that would keep all the machines fully employed during 1905. There are, however, certain areas where supply has rarely, if ever, been found by the tests made down to 400 or 500 feet, and I would be inclined to advise the purchase of a 2500 to 3000 foot machine for the purpose of making tests in such localities, such tests only to be undertaken in organised districts where the local authorities are willing to contribute largely to the expense outside of the first cost of the machine.

The areas organised under the new Local Improvement Ordinance up to the end of the year is very gratifying, and generally speaking the councils have shown a marked interest in looking after their own local affairs, which has resulted in a lot of good work being done, besides placing the department in a position to deal with the council as a body representing the district in preference to the confusion that generally arises when aiming to deal with public improvements on private requests and recommendations. Petitions for organisation now on hand point to a largely increased organisation of local improvement districts during 1905, and it is confidently hoped that this organisation will be the first step in a system of fuller local control of the many small questions, which it is practically impossible to deal satisfactorily with from one central point in view of the large area over which settlement is spreading.

The total expenditure incurred by the department during the year on public works and paid out of general revenue amounted to \$611,417.77, some \$239,197.77 more than was expended from this source in 1903, and while this sum includes payment for certain works completed in 1903, at least an equal amount will be paid in 1905 for works completed in 1904. For the purpose of comparison with the expenditure of former years and of showing the growth of the annual expenditure of the department, the following table, compiled from former reports, is appended.

Expenditure in 1899.....	\$146,403
“ “ 1900.....	175,960
“ “ 1901.....	236,574
“ “ 1902.....	298,238
“ “ 1903.....	372,220
“ “ 1904.....	611,417

Showing that in 1904 \$465,014 was expended over and above the amount expended in 1899. On a percentage basis the expenditure of 1900 was 20.19 per cent. above that of 1899 that of 1901 “ 34.45 “ “ “ 1900 “ 1902 “ 26.06 “ “ “ 1901 “ 1903 “ 31.51 “ “ “ 1902 “ 1904 “ 64.26 “ “ “ 1903 “ 1904 “ 317.62 “ “ “ 1899

For the sake of uniformity the system adopted in the preparation of former reports will be followed as nearly as possible throughout this report with the exception that since the small local improvement districts have been disorganised by the new ordinance which came into effect on the 1st of January, 1904, there will in consequence be no list of overseers of local improvement districts, but instead, a list of the districts organised during 1904 is appended, showing their area and the names of the secretary-treasurers.

CORRESPONDENCE BRANCH.

Staff.....	{ 1 chief clerk. 4 clerks. 1 messenger.
------------	---

The following statement will show the large amount of correspondence handled by this branch during the year, also a marked increase over former years:

Communications received, 1902.....	42,251
“ “ 1903.....	46,306
“ “ 1904.....	75,264
Communications sent, 1902.....	86,730
“ “ 1903.....	88,304
“ “ 1904.....	147,691
Irrigation Office, 1902.....	3,417
“ “ 1903.....	3,519
“ “ 1904.....	5,548
“ “ special circulars, 1904.....	3,500
Total, 1902.....	132,398
“ 1903.....	140,929
“ 1904.....	232,003
Average number dealt with daily, 1902.....	431
“ “ “ “ “ 1903.....	463
“ “ “ “ “ 1904.....	761
Entries of cash received, 1902.....	9,651
“ “ “ 1903.....	10,429
“ “ “ 1904.....	18,468

This shows an increase of communications received and sent over and above 1903 of 91,074, or a daily average of 761 communications handled by the department.

### THE COAL MINES REGULATIONS ORDINANCE.

Inside staff . . . . . 1 clerk and stenographer.  
Outside staff . . . . . 1 inspector.

Five new coal mines were opened up during the year of which the department has been notified and the following schedule shows the mines which have been operated in the Territories of which we have a record in the department:

#### *Output of Coal during the Year 1904.*

Bituminous and lignite coal . . . . .	759,568 tons
Anthracite coal. . . . .	23,363 "
Total . . . . .	782,931 "

It will be observed that the total output of bituminous and lignite coal exceeds that of 1903 by 141,814 tons, being an increase of about 22.95% on these two classes. The increase in the production of anthracite to 18,178 tons over last year's output is accounted for by the operation of Bankhead mines at Banff.

#### SCHEDULE of Accidents in Coal Mines in 1904.

LOCATION	Character of Accident			Total of accidents
	Resulting in death	Serious injury	Slight injury	
Blairmore . . . . .	.	1	..	1
Canmore . . . . .	.	1	.	1
Coalfields . . . . .	2	1	1	4
Coleman . . . . .	.	1	4	5
Edmonton. . . . .	1	..	1	2
Estevan . . . . .	..	1	..	1
Frank . . . . .	3	..	..	3
Lethbridge . . . . .	..	3	1	4
Lubreck . . . . .	..	2	..	2
<b>Total in Territories.</b>	<b>6</b>	<b>10</b>	<b>7</b>	<b>23</b>

#### MINES opened in 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
Stewart Coal Co., Nonsuch . . . . .	Edmonton. . . . .	Stewart Coal Co. . . . .	Bituminous
. . . . .	Clover Bar . . . . .	O. S. Radway . . . . .	"
. . . . .	" . . . . .	Phillip Ottewell . . . . .	"
Barnes Colliery . . . . .	Lethbridge . . . . .	Wm. Barnes . . . . .	"
. . . . .	Edmonton. . . . .	John Cameron . . . . .	"

## MINES in Operation which were Opened previous to 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
The H. W. McNeill Co., Ltd., Anthracite	Anthracite .....	The Canadian Anthracite Coal Co.....	Anthracite
The H. W. McNeill Co., Ltd., Canmore	Canmore.....	The Canadian Anthracite Coal Co.....	Bituminous
Alberta Railway and Irrigation Co., No. 3	Lethbridge .....	Alberta Railway and Irrigation Co.....	"
Clover Bar	Clover Bar .....	Messrs. Daly and Lindsay	"
Edmonton Coal Co., Ltd.	Edmonton.....	Edmonton Coal Co., Ltd...	"
Sturgeon river	Namao.....	Chas. G. Carnegie .....	"
Sturgeon	" .....	Robert Kelly .....	"
White Star.....	Strathcona .....	Messrs. Austin, Miller and McKenzie.....	"
Culley.....	Medicine Hat.....	Jos. Culley .....	"
Crockford .....	" .....	Messrs. Crockford Bros....	"
Souris Coal Mining Co., Ltd., Hassard Mine No. 1	Coalfields.....	Souris Coal Mining Co., Ltd. ....	"
Souris Coal Mining Co., Ltd., Farmers' Mine	" .....	Souris Coal Mining Co., Ltd. ....	"
Souris Coal Mining Co., Ltd., Roche Percee Mine No. 3	" .....	Souris Coal Mining Co., Ltd. ....	"
Raith.....	Edmonton.....	Wm. Humberstone...	"
Frank Collieries. ....	Frank .....	The Canadian - American Coal and Coke Co., Ltd..	"
Eureka Coal and Brick Co., Ltd	Estevan .....	Eureka Coal and Brick Co., Ltd. ....	"
Souris Coal Mining Co., Ltd., New Mine, No. 2	Coalfields .....	Souris Coal Mining Co., Ltd. ....	"
Pioneer.....	Lethbridge .....	Jas. Ashcroft .....	"
Galbraith.....	Cowley .....	R. J. Galbraith.....	"
Essar.....	Medicine Hat.....	M. Essar. ....	"
Hoover.....	" .....	T. Hoover .....	"
Lille, A .....	Blairmore .....	West Canadian Collieries, Ltd. ....	"
Coal Coulee.....	High River .....	Messrs. D. E. Riley and Thompson .....	"
Blackfoot.....	Gleichen.....	Blackfoot Indians .....	"
Bonner.....	Namao.....	Messrs. Dawkins and Speers	"
Breckenridge - Lund Coal Co., Ltd.	Lubreck .....	Breckenridge - Lund Coal Co., Ltd. ....	"
Bankhead .....	Bankhead.....	Pacific Coal Co.....	Anthracite
Bienfait .....	Bienfait .....	C.P.R. Mining and Metallurgical Department....	Bituminous
Sutherland .....	Coalfields .....	Roche Percee Coal Mining Co., Ltd. ....	"
Bellevue.....	Blairmore .....	West Canadian Collieries, Ltd. ....	"
Dennison .....	Coleman.....	International Coal & Coke Co. ....	"
Brandt .....	Edmonton.....	F. A. Brandt .....	"
" .....	" .....	W. J. Baldwin .....	"
Big Island.....	Strathcona .....	Messrs. Martin Bros. ....	"
" .....	Knee Hill.....	T. Hunt .....	"
Morinville .....	Morinville .....	Messrs. Chevigny & Steffas	"
Gillespie .....	Medicine Hat.....	Frank Gillespie.....	"
" .....	Edmonton.....	Edmonton Coal Co., Ltd...	"
Russell .....	Lethbridge .....	Geo. F. Russell .....	"
White Light. ....	Edmonton.....	Messrs. Evans & Robinson	"

MINES in Operation which were Opened previous to 1904—*Continued.*

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
Keith	Clover Bar	Messrs. Fowler, Keith and Fulton	Bituminous
	Edmonton	Messrs. Milner and Co.	"
	Cowley	Alberta Coal and Coke Co.	"
	Coalfields	Silas Griffiths	"
Clover	Clover Bar	O. S. Radway	"
	"	Phillip Ottewell	"
	Edmonton	John Cameron	"
	"	Jas. Milner	"
	Lineham	Messrs. Cooper & McPherson	"
	Edmonton	The Mays Coal Co.	"
	Pincher Creek	E. G. Ambrose	"

## MINES Abandoned during the Year 1904.

NAME	LOCATION	OPERATED BY	CHARACTER OF COAL
H. W. McNeill Co., Ltd	Anthracite	The Canadian Anthracite Coal Co.	Anthracite
Milner	Edmonton	Jas. Milner	Bituminous
Fourfoot	Estevan	Henry Yardley	"
	Edmonton	Edmonton Coal Co., Ltd.	"

Certificates issued to candidates who successfully passed examinations during the year 1904:

Wm. Price Williams	Blairmore, Alta.	Manager.
Caleb Cox Symons	Coalfields, Assa.	"
John Bastian	Banff, Alta.	"
Wm. Musgrove	Anthracite, Alta.	Pit Boss.
Raoul Green	Blairmore, Alta.	"
Samuel A. Jones	Lethbridge, Alta.	"
Robert George Duggan	Frank, Alta.	"
Charles Phillips	"	"
John Bastian	Bankhead, Alta.	"
Joseph Adelard Seguin	Estevan, Assa	"
Samuel McVicar	Frank, Alta.	"
John William McKean	Lethbridge, Alta.	"
George L. Fraser	Coleman, Alta	"
Oliver Hall	Bellevue, Alta.	"
Wm. J. Spencer	Anthracite, Alta.	Fire Boss.
Joseph James	Frank, Alta.	"
Harry Gate	Coleman, Alta.	"
Robert George Duggan	Frank, Alta.	"
Charles Chestnutt	"	"
Thomas Harrison	Banff, Alta.	"
Thomas Wm. Bastian	Bankhead, Alta	"
David Thomas	"	"
Robert Smith	Canmore, Alta	"
Evan Henry Griffiths	"	"
Matt Mattson	"	"
Hugh Smith	"	"
Hugh G. McKinnon	"	"
Thomas Haines	Coleman, Alta.	"
John Stott	Lethbridge, Alta.	"
Henry Fairhurst	"	"
Robert Harvie	"	"



Certificates issued under Section 17 of The Coal Mines Regulations Ordinance, during 1904.

*Manager Certificates.*

Arthur Rupert Wilson.....	Michel, B.C.
Robert G. Drinnan.....	Fernie, B.C.
James Finlayson.....	"
Robert Strachan.....	"
Wm. Henry Wall.....	Nanaimo, B.C.
Edward Everett Reynolds.....	Coleman, Alta.
Francis Henry Shepherd.....	Nanaimo, B.C.
Thomas Mills.....	"
Richard Nash Pearson.....	Frank, Alta.
Jas. Ambrose Richards.....	Nanaimo, B.C.
Herbert Bertrand Wright.....	Fernie, B.C.
Henry Lewis Manley.....	"
David Richard Llewellyn.....	Michel, B.C.
John John.....	Fernie, B.C.
Thomas Russell.....	Victoria, B.C.
George Herbert Broome.....	Frank, Alta.
Luke Raisbeck.....	Lethbridge, Alta.

Certificates of competency now held under The Coal Mines Regulations Ordinance.

*Manager Certificates.*

Dan Evans.....	Michel, B.C.
W. D. L. Hardie.....	Lethbridge, Alta.
James J. Morris.....	Canmore, Alta.
John Little.....	Coalfields, Assa.
Wm. Hamilton.....	"
O. E. S. Whitesides.....	Anthracite, Alta.
Frank B. Smith.....	Calgary, Alta.
Edwin P. White.....	Crow's Nest, B.C.
James Hargreaves.....	Fernie, B.C.
Thos. R. Stockett, Jr.....	"
Robinson Pearson.....	"
John B. Wyllie.....	Frank, Alta.
Cyrus Morris.....	"
Archibald Waite.....	Coalfields, Assa.
Robert Livingstone.....	Lethbridge, Alta.
James McEvoy.....	Fernie, B.C.
John Brown.....	Banff, Alta.
Wm. Addie.....	Frank, Alta.
Daniel Elliott.....	Blairmore, Alta.
Charles Simister.....	Morrissey, B.C.
David Wilson.....	"
Elijah Heathcote.....	"
W. F. Collins.....	Blairmore, Alta.
John Leitch Parker.....	North Star, B.C.
Charles Michael Henretta.....	Banff, Alta.
Alexander Kerr.....	Tonkin, B.C.
Arthur Rupert Wilson.....	Michel, B.C.
Robert G. Drinnan.....	Fernie, B.C.
James Finlayson.....	"
Robert Strachan.....	"
Wm. Henry Wall.....	Nanaimo, B.C.
Edward Everett Reynolds.....	Coleman, Alta.
Francis Henry Shepherd.....	Nanaimo, B.C.
Thomas Mills.....	"
Wm. Price Williams.....	Blairmore, Alta.
Caleb Cox Symons.....	Coalfields, Assa.
Richard Nash Pearson.....	Frank, Alta.
Jas. Ambrose Richards.....	Nanaimo, B.C.
Herbert Bertrand Wright.....	Fernie, B.C.
Henry Lewis Manley.....	"

David Richard Llewellyn.....	Michel, B.C.
John Bastian.....	Banff, Alta.
John John.....	Fernie, B.C.
Thomas Russell.....	Victoria, B.C.
George Herbert Broome.....	Frank, Alta.
Luke Raisbeck.....	Lethbridge, Alta.

*Pit Boss Certificates.*

Gus Ostheidt.....	Anthracite, Alta.
John Musgrove.....	Canmore, Alta.
Charles Emerson.....	"
Alfred Davis.....	Lethbridge, Alta.
J. C. Livingstone.....	"
Robert Livingstone.....	"
Hugh Scott.....	"
T. H. Williams.....	Canmore, Alta.
Archibald Waite.....	Estevan, Assa.
Cory Weatherby.....	Fernie, B.C.
Thos. Steele.....	Frank, Alta.
Thos. Corkill.....	"
H. R. Giffen.....	Coalfields, Assa.
W. G. Pearson.....	Frank, Alta.
W. G. Flint.....	Anthracite, Alta.
Wm. Musgrove.....	"
Raoul Green.....	Blairmore, Alta.
Samuel A. Jones.....	Lethbridge, Alta.
Robert George Duggan.....	Frank, Alta.
Charles Phillips.....	"
John Bastian.....	Bankhead, Alta.
Joseph Adelard Seguin.....	Estevan, Assa.
Samuel McVicar.....	Frank, Alta.
John William McKean.....	Lethbridge, Alta.
George L. Fraser.....	Coleman, Alta.
Oliver Hall.....	Bellvue, Alta.

*Fire Boss Certificates.*

W. E. Watkins.....	Anthracite, Alta.
John Wilson.....	Canmore, Alta.
J. W. Watkins.....	"
Wm. Cowan.....	"
John James McKay.....	Lethbridge, Alta.
Robert Scott.....	"
Robert Livingstone.....	"
Hugh Scott.....	"
Wm. Musgrove.....	Canmore, Alta.
Wm. Taylor.....	Lethbridge, Alta.
Archibald Waite.....	Estevan, Assa.
Evan Jones.....	"
John Anderson.....	Canmore, Alta.
Charles Phillips.....	Frank, Alta.
Geo. E. Holmes.....	Fernie, B.C.
Wm. John Davies.....	Canmore, Alta.
Samuel A. Jones.....	Lethbridge, Alta.
J. C. Livingstone.....	"
H. R. Giffen.....	Coalfields, Assa.
Andrew Hood.....	Frank, Alta.
S. H. Turner.....	Canmore, Alta.
Joseph Sedlock.....	"
John Hadfield.....	"
Thomas Downs.....	"
Wm. J. Spencer.....	Anthracite, Alta.
Joseph James.....	Frank, Alta.
Harry Gate.....	Coleman, Alta.
Robert George Duggan.....	Frank, Alta.
Charles Chestnut.....	"
Thomas Harrison.....	Banff, Alta.

Thomas Wm. Bastian	Bankhead, Alta.
David Thomas	"
Robert Smith	Canmore, Alta.
Evan Henry Griffiths	"
Matt Mattson	"
Hugh Smith	"
Hugh G. McKinnon	"
Thomas Haines	Coleman, Alta.
John Stott	Lethbridge, Alta.
Henry Fairhurst	"
Robert Harvie	"

CALGARY, *January 3, 1905.*

JNO. STOCKS, Esq.,

*Deputy Commissioner of Public Works,*  
Regina, Assa.

SIR,—I have the honour of presenting my report as Inspector of Coal Mines for the North-West Territories, for the year ending the 31st of December, 1904. Taking up the subjects as required by the Lieutenant Governor in Council in the appointment of an inspector under sections 34 and 35 of the Coal Mines Regulations Ordinance, No. 9, 1898.

The output of the coal mines in the Territories has considerably increased during the past year, and the number of mines added to the list is five. The total number of mines that have been opened since a tabulated list was compiled by the department is ninety-three (93). A short summary of the statistics for 1904 is as follows:

Number of Mines opened in the district	93
" " " known to be in operation	51
" " tons produced in 1904	782,931
" " persons employed in the mines	1,482
" " persons employed outside the mines	537
" " fatal accidents in the mines	5
" " fatal accidents outside the mines	1

The following companies have been the largest producers during the past year:

- The Alberta Railway & Irrigation Co.—Lethbridge, Alta. No. 3 shaft.
- The Canadian-American Coal and Coke Co.—Frank, Alta. No. 1 entry, No. 2 entry and No. 3 shaft.
- The West Canadian Colliers, Ltd.—Blairmore, Alta. Nos. 1, 2 and 3 entries at Little Colliery. No. 1, entry at Bellvue Colliery.
- The International Coal and Coke Co.—Coleman, Alta. No. 1 entry and No. 1 slope.
- The H. W. McNeill Co.—Canmore, Alta. No. 1 slope.
- The H. W. McNeill Co.—Anthracite, Alta. No. 1 slope (now abandoned).
- The Souris Coal Co.—Coalfields, Assa. Nos. 1, 2, 3 and 4 entries, and No. 1 slope.
- The C.P.R. Mining and Metallurgical Dept.—Bankhead, Alta. Nos. 1, 2 and 3 entries and No. 1 slope.
- The C.P.R. Mining and Metallurgical Dept.—Bienfait, Assa. No. 1 slope.
- The Breckenridge-Lund Coal Co.—Lubrek, Alta. No. 1 entry.
- The Eureka Brick & Coal Co.—Estevan, Assa. No. 2 entry.
- The Roche Percee Coal Mining Co., Ltd.—Roche Percee, Assa. No. 1 entry.
- The Edmonton Coal Co.—Edmonton, Alta. Nos. 1 and 2 entries.
- The Mays Coal Mining Co.—Edmonton, Alta. Nos. 1, 2 and 3 entries.
- The James R. Stewart Mining Co.—Edmonton, Alta. Nos. 1 and 2 entries.
- The Knee Hill Coal Co.—Knee Hill, Alta. No. 1 entry.

There are many other individual coal mine operators who have produced a fair output in the Edmonton, Estevan, High River, Crows Nest and Medicine Hat districts, which are all included in the total of the Territories for 1904. Quite a few small mines are in operation

in outlying districts that have not as yet been visited, and in some cases I think, no returns have been made; this I consider an oversight on the part of the operators, as the more publicity that is given to their districts, the more their resources the larger will be the community to eventually consume their product. The Alberta Railway and Irrigation Co. have changed their title during the past year, eliminating the word "Coal," but this far from being a sign of the company going out of the coal market, has seemingly given a new impetus to them, as their coal production this year exceeds any previous one.

The hoisting plant at this colliery, although a comparatively old one, will be hard to beat in any coal field; the record was reached this year when over 2,000 tons of material was hoisted in ten hours. The ventilating plant has been relieved to a certain extent by a connection being made to No. 4 shaft.

The endless rope haulage has been extended to suit the requirements of the colliery; a new box car loader was installed but did not prove suitable to handling the class of coal.

Other improvements have been made on the plant in proportion to the increased output.

The Canadian-American Coal & Coke Co. have within the past twelve months overcome the difficulties that beset them after the terrible landslide of April, 1903, which practically wiped out their whole plant. The old entry has now been thoroughly opened out with good connections to the surface; a new fan installed and now the company are busy putting in a main and tail rope haulage, also a box car loader to facilitate shipments. All the work at the new shaft has been completed and ready for hoisting coal.

No. 2 Adit Level on the north side of the railway, has for the present been stopped as they can supply their demands with the present workings.

The West Canadian Collieries, Ltd., have made an amalgamation of three properties, viz.—at Lille, Bellvue and Bryron Creek.

At Lille their work is now concentrated at No. 1 opening where a new tipple plant has recently been erected. The small coal from this colliery is all coked, the production of the ovens being over 100 tons per day.

At this company's Bellvue colliery development work has already progressed during the past year, that now they are capable of giving an output of 400 tons per day.

Bryron Creek Colliery has been closed for the present as all prospecting work has been completed.

The International Coal and Coke Co. has one of the model plants in the district. This mine although opened little more than a year ago is one of the large coal producers in the Pass. All their railway sidings have been completed, the tipple plant with hoisting arrangements, self-dumping cages and screening apparatus to place coal on the market for domestic, steam and coking use. Their ventilating fan with electric motive power is capable of producing 150,000 cubic feet of air per minute. A high pressure compound air plant has been completed by which their 7 ton air locomotive can be charged at three separate points and capable of drawing 30 loads on a  $\frac{1}{2}$  per cent. grade. This is the first air locomotive that has been introduced in the district and is proving a

great success. The main entry is in about 3,000 feet driven in a 14 foot seam and about 1,000 feet in this gangway the measures have been cross-cut to a 6 foot seam which is an excellent coking coal.

A slope has been driven on this 6 foot seam to attain greater depth of working.

The H. W. McNeill Co. at their Canmore mines have been working steadily all year and their output will exceed the production of any previous year. The development of the mine has been carried vigorously until the production for one day is over 600 tons.

Many new improvements have been made at this colliery during the past year so as to improve the quality of the coal put on the market, and also to facilitate quicker shipping.

A new Phillips tippie has been built with creeper chain to bring the cars back to the top of the slope. After the coal has been dumped it is passed over shaker screens, and the lump and small elevated separated over picking tables at the end of which they are dumped together into large hoppers or coal bins. The coal from this mine is nearly all used for steam purposes, and the loading from these large coal bins can be done much quicker than by the old method of straight dumping into the box cars. The company are now erecting a new fan capable of producing 100,000 cubic feet of air per minute, which will allow of the workings being extended to a much greater distance than they are at present.

The H. W. McNeill Co. at Anthracite closed down this mine in June last on account of litigation with the adjoining property.

The Souris Coal Co. have again increased their output to what it was in former years, and no doubt the way in which this coal is taking the market through Estevan, Assiniboia and Manitoba, the increase will come year by year. The Company have now taken a wise step and started to open up a slope about the centre of their property and so concentrate all their work at one point.

A modern hoisting and tippie plant is to be erected at these new works.

The C.P.R. Mining and Metallurgical Dept. have put in a modern plant at Bienfait, Assa. The work here, however, has only been development, but executed in such a manner that should the other collieries in the district not be able to supply the demand then rooms can be immediately opened out and the production made equal to the demand.

The C.R.R. Mining and Metallurgical Dept. at Bankhead Mine, five miles from Banff, has pushed ahead the development work of their mines, erected a very large and modern plant and for the comfort of their employees have built one of the most modern mining villages on the continent. The mine is situated at the base of Cascade Mts., the seams having a general strike north and south, with a pitch varying from 40° to 75° dipping to the west. No. 2 gangway is in over 2,000 feet with very little sign of faulting. The main tunnel, at which point the permanent tippie plant is to be erected has now been connected with No. 2 seam and started again to crosscut the measures to tap all the other seams. The ventilation at present is by exhaust fan, capable of handling the work for some time but new and more powerful fans have been ordered so that each seam as it is developed will be ventilated separately.

The Breckenridge Lund Coal Co. have done considerable development work during the past year, and are now preparing to put up a new scientific plant alongside of the railway tracks.

The Eureka Brick and Coal Co., also the Roche Percee Coal Mining Co. are fastly developing the lignite field of South Estevan.

The Edmonton Coal Co., The Mays Coal Mining Co. and the James R. Stewart Mining Co. all operating in the Edmonton district are the pioneers of what must soon be a larger company probably an amalgamation of interests.

The Knee Hills Coal Co. Knee Hill, Alta. These mines although worked for a few years past in a desultory manner to supply a few ranchers the country is now filling up so fast that the company have now taken the matter up seriously and will develop accordingly until a railroad reaches them which should be in the near future.

#### *Accidents.*

The record of accidents fatal and non-fatal is, I think, more complete as far as statistics are concerned than in any previous year.

The tonnage output of the Territories has largely increased during 1904 and consequently the number of men employed has proportionately increased; I am pleased to say that the accidents have not increased in the same proportion although more minor accidents have been reported, this is more on account of the different managements taking more cognisance to our mining regulations.

In this connection I would respectfully draw your attention to the introduction of some amendments in our Coal Mines Regulations Ordinance, especially with regard to ambulance work.

Appended is a tabulated statement of the accidents which have been reported in 1904.

NO.	DATE	MINE	NAME	OCCUPATION	REMARKS
1	Jan. 6	Souris No. 2	David Arnot	Labourer	Leg broken; crushed between mine car and post
2	Feb. 23	J. R. Stewart Mine	Fred Basista	Miner	Injured by fall from roof; died 3 days later
3	" 24	Souris No. 2	James Featherstone	Driver	Slightly injured falling in front of cars
4	" 26	Humberstone Mine	Steve Batute	Miner	Slightly injured by fall of rock
5	April 4	Outside Souris Mines	John Chuchnuck	Labourer	Fatally injured between railway cars
6	" 5	Canmore	John Gorek	Miner	Double fracture of right leg; fall of rock
7	" 12	Lethbridge	Paul Furechuck	"	Thigh fractured; fall of rock
8	May 18	Frank	M. Guidnor	"	Suffocated by fall in chute and covered with coal
9	" 21	Lille	Antonio Gerry	"	Eye blown out relighting a shot
10	June 15	Coleman	H. Grewcutt, Jr.	"	Slightly burned
11	July 13	Lundorek	Joe Thomas	"	Severely burned, face and neck
12	" 13	"	Sam Howard	"	Slightly burned
13	" 31	Frank	Sam Mclean	"	Suffocated by white damp after firing a shot
14	Aug. 1	"	G. Fauton	Trapper	Fatally injured between mine car and post
15	" 10	Coleman	M. Maestro	Miner	Slightly burned
16	" 10	Lethbridge	P. Botes	"	Face cut crowding on cage
17	Sept. 2	Coleman	J. Foulds	Driver	Burned on face and hands
18	" 4	Lethbridge	J. Jonostick	Driver	Leg broken between car and post
19	" 5	Souris	N. Gentner	Miner	Fatally injured by shot blowing into cross-cut
20	Oct. 8	Coleman	Steve Kuhan	Labourer	Slightly hurt between car and chute
21	Nov. 22	"	G. Garbhar	Miner	Burned face and neck slightly
22	Dec. 10	Lethbridge	P. Kardink	Labourer	Ankle broken; fall of rock
23	" 15	Estevan	J. Bailey	Miner	Hip dislocation; fall of coal

*Work of Inspection.*

The larger mines in the Territories have all been visited six times, and when necessary oftener during 1904.

The smaller mines inspected every three months. The large extent of territory and the number of mines to be visited now occupies much more time than it did during previous years, and on this account I find it more advantageous to visit the extensive collieries oftener and so keep in touch with their development.

On these occasions the plans are examined, certain districts, mapped out to go to but visiting the main intake and main returns always. Here again I would respectfully ask you if possible at the next session of the Legislature that amendments be introduced into the Ordinance which amendments would greatly facilitate my work of inspection. My reports of inspection have been made to the department after each visit to a colliery and then all details as to the workings have been gone into. This past year I have taken up the statistics of the different collieries with regard to ventilation, pumping, haulage, rails used, modes of working, lights used, machinery, etc., and have them tabulated for information of the department at any time; the quality of the coal in the different districts I also looked up, and the following is an approximate analysis of the same.

*Crows Nest District.*

	1.	2.	3.	4.	
Moisture.....	0·85	2·0	0·77	1·8	} All coking
Vol. com. matter.....	21·15	20·2	19·58	27·1	
Fixed carbon.....	68·46	69·2	73·62	63·8	
Ash.....	9·25	8·6	5·80	0·3	
Sulphur.....	0·31	Trace	0·23	1·0	

*Cowley District.*

	1.
Moisture.....	3·7
Vol. com. matter.....	53·6
Fixed carbon.....	31·8
Ash.....	10·9

*Lethbridge District.*

	1.
Moisture.....	7·42
Vol. com. matter.....	43·83
Fixed carbon.....	44·92
Ash.....	3·83

*Souris District.*

	1.
Moisture.....	16·92
Vol. com. matter.....	38·58
Fixed carbon.....	40·72
Ash.....	3·78

*Canmore and Bankhead.*

	1.	2.	1.
Moisture.....	·45	1·6	·41
Vol. com. matter.....	13·01	14·7	12·00
Fixed carbon.....	84·04	79·0	83·78
Ash.....	2·50	4·7	3·81



*Examinations.*

The work in connection with examinations was increasing so rapidly that it has been decided to hold them only twice a year, dividing the Territories into three separate districts, Canmore, Crows Nest and Coal-fields. The applicants for the different certificates in 1904 were so numerous that seven examinations had to be held, and of these 16 passed for fire boss, 10 for pit boss and 4 for mines manager's certificate.

During the year I had several complaints from mine managers with regard to the incompetency or lack of getting good officials, so that I have been compelled to entirely cancel all the old examination papers and each examination will now be different from the previous one. In the case of pit boss or fire boss the board of examiners reserve the right to give these candidates a thorough *viva voce* examination. It is pleasing to note the interest that is now taken by the miners to pass these examinations, each one seeming to strive with the other to see who will receive the largest percentage. Some of the papers examined this year by the various boards have surpassed anything that was ever before presented to them. Many of these certificated men have not the Ordinance and I think it would be wise to include this in the annual report sending a copy to each official on the department's list.

*Coal Mining Prospects.*

The prospecting and location of the new coal areas in the Territories is still vigorously carried on.

The eye of the public has been so favourably attracted by the bright prospects of the future Territories that there is no trouble in securing capital to develop any reliable company's holdings.

All the different coal districts show a remarkable increase in population and the companies operating in them are certainly keeping up their improvements to meet the increased demand.

I have the honour to be, sir,

Your obedient servant,

FRANK B. SMITH,

*Inspector of Coal Mines.*

## THE STEAM BOILERS ORDINANCE.

Inside staff .....	{ 1 clerk in charge 1 stenographer
Outside staff .....	4 inspectors

As in previous reports, it will be observed that this year there is an increase in all sections of work connected with The Steam Boilers Ordinance.

The staff of inspectors remains the same as last year with one exception, and in this instance a new appointment was made. Inspector W. M. Carment, appointed March 22nd, 1900, tendered his resignation on May 31st, 1904, but owing to the difficulty in obtaining another inspector, it was not possible to relieve him from duty until August 4th. Mr. Carment was in his fifth year of service as an inspector, and during the whole of this time performed his duties in an entirely satisfactory

manner. Between the first of the year and the date of his leaving the service Mr. Carment inspected 119 boilers, and held a number of examinations for engineers.

To fill the vacancy on the staff caused by Mr. Carment's resignation, Mr. David Fraser, of Strathcona, was appointed. He commenced his duties in the South-eastern Assiniboia District, but later returned to Strathcona, as owing to the large increase in the amount of work to be done in Alberta, his services were found necessary to take over the northern part of Inspector Buxton's district, and he has been permanently appointed to that portion of the Territories.

The following are the names and addresses of the Inspectors :

Wm. Waller .....	Whitewood
Wm. Mayhew .....	Whitewood
Jos. Buxton .....	Calgary
David Fraser .....	Strathcona

Some changes were made in allotting inspectors to different districts than they had previously covered. On this account the increase in the number of boilers inspected does not appear as marked as last year, although from data in the hands of the inspectors it is known that the number of boilers in the Territories is increasing very rapidly. There is still one district to which no inspector has been appointed to devote his whole time, but it is in the hands of Inspector Mayhew, who has the North-eastern Assiniboia District, until a new appointment can be made.

The schedule given below shows the ground covered during the past year in connection with the administration of this Ordinance. It also draws a comparison between the work of the year 1903 and 1904 :

	1903	1904	Increase
Number of boilers inspected.....	1125	1192	67
Number of examinations of engineers held.....	178	261	83
Number of first class engineer's certificates issued	5	5	
Number of second class engineer's certificates issued .....	39	58	19
Number of third class engineer's certificates issued.....	144	199	55
Number of provisional certificates of qualification issued .....	410	583	173
Number of permits for operation of steam boilers issued.....	42	49	7
Fees collected :			
For inspection of boilers.....	\$5,680.00	\$6,250.00	\$570.00
For final certificates under section 28 .....		87.00	
For examination of engineers .....	663.00	783.00	207.00
For provisional certificates.....	1,242.00	1,746.00	504.00
For permits for operation of steam boilers	126.00	147.00	21.00
Totals. ....	\$7,711.00	\$9,013.00	\$1,302.00

In addition to the certificates recorded in the above schedule as issued, some 28 second provisional certificates have been issued, under subsection 2 of Section 29, to engineers who failed to pass their examination for a final certificate.

It will be observed that the number of final certificates issued is small compared with the issue of provisional certificates.

There has been an increase of \$1,302.00 in the amount of revenue collected.

It is very gratifying to be able to report that no accident has occurred during the past year, for which the condition of a boiler is accountable, although there are nearly twelve hundred in operation.

The annual reports of the staff of inspectors, and a list of all Final Certificates issued to date, are submitted herewith :

WHITEWOOD, *December, 31st, 1904.*

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
Regina, Assa.

Sir,—I have the honour to submit my annual report as Inspector of Steam Boilers for the year 1904 in accordance with Section 19 of The Steam Boilers Ordinance.

The number of boilers inspected by me during the past year is 285, which may be classed as follows :

Locomotive traction.....	140
“ portable.....	65
Return tube, traction.....	32
“ “ portable.....	28
Stationary tubular.....	17
“ vertical.....	3
Total.....	—285

*Conditions of Boilers.*

Good.....	245
Very fair.....	21
Fair.....	17
Poor.....	1
Bad.....	1

The last one I condemned as unfit for further use. Repairs were ordered on 35 boilers; new steam gauges on 3 and new safety valves on 4. In all 71 boilers came in during the year of which 57 were new, and 14 had been in use before.

At the end of July I was transferred from the South-eastern to the North-eastern Assiniboia District through the resignation of Mr. W. M. Carment of Yorkton. Up to that time I had inspected 146 boilers, and since being transferred I have inspected 139.

I have held 22 advertised examinations, and others I have had to arrange as I was passing through my district to accommodate engineers living at a distance from the towns, as they say they do not know of the examinations being held until it is too late. I have held these examinations to assist in supplying the need of certificated engineers as owing to the large increase in the number of boilers every year the demand for certificated men is not kept up with.

I have no accidents or casualties to report in my district during the past year.

I have the honour to be, Sir,

Your obedient servant,

WM. MAYHEW,  
*Inspector of Steam Boilers,*

STRATHCONA, *December 31st, 1904.*

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
 Regina, Assa.

SIR,—I have the honour to submit to you my annual report as Inspector of Steam Boilers for the the year 1904 in accordance with Section 19 of the provisions of The Steam Boilers Ordinance.

I commenced my duties in North Alberta on the 27th of August, and on the 19th of September was assigned the South-eastern District of Assiniboia as my field of work. During the season I inspected 131 boilers. Of that number 49 were new and 5 had been brought into the district from other places.

The number of the different classes and their condition are as follows:

Locomotive fire box.....	102
Return tubular.....	15
Horizontal tubular.....	13
Upright tubular.....	1

Of this number 125 were in good condition, and six in fair condition. Various repairs were ordered in nine boilers, also three new safety valves, and two steam gauges.

Owing to the scarcity of engineers during the threshing season, I had to issue seven permits to people who could not get men with certificates. I received application for 44 provisional certificates. I held an examination in Strathcona and also at five different points in Assiniboia, where 44 candidates wrote for final certificates.

There have been no accidents or casualties reported to me during the season.

I have the honour to be, Sir,  
 Your obedient servant,  
 DAVID FRASER,  
*Inspector of Steam Boilers.*

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 WHITEWOOD, *December 31st, 1904.*

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
 Regina, Assa.

SIR,—I have the honour to submit to you my fifth annual report as Inspector of Steam Boilers.

As in previous years I was instructed to proceed to Battleford to overhaul the steam ferry and put the boat in the water, which was done successfully. Owing to the ice jam and the sudden rise of the water at the same time, the work of caulking the boat was delayed. The ferry was running on May 7th, after which I commenced the inspection of steam boilers in the Battleford district.

The number of boilers is increasing very rapidly. I have inspected 326 boilers during 1904. Of this number 50 had not been inspected before as far as I could find out. There are some eight or ten boilers which have not been inspected this year, but it will be seen by my returns that I made every effort to get around to them all before it froze up.

The following is a description of the boilers inspected:

Locomotive fire box, traction .....	160
“ “ “ portable .....	47
Return tubular “ .....	8
“ “ traction .....	45
“ “ stationary .....	8
Tubular stationary .....	30
Riveted tubular stationary .....	7
Locomotive fire box with return tubes, traction .....	8
“ “ “ portable .....	2
Upright tubular, portable .....	7
“ “ stationary .....	2
Water tubular .....	2
Total .....	—326

Inspected 274 in good condition ; 51 in fair condition and one in bad condition.

It is to be regretted that some firms are supplying very inferior steam gauges, the principal defect being that no hair spring is provided to hold the finger from indicating five or ten pounds more or less. Because of this the steam gauges are very difficult to set to indicate the same as the test gauge.

As in the lock pop safety valve, I think the department should do something to prevent the use of such steam gauges and protect the public against fraud in this respect, especially the threshers, for it is principally with them the unprincipled dealer tries to sell his trash.

I have the honour to be, Sir,

Your obedient servant,

WILLIAM WALLER,  
*Inspector of Steam Boilers.*

CALGARY, December 31st, 1904

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
Regina, Assa.

SIR,—I have the honour to submit my annual report for the year 1904 as Inspector of Steam Boilers in accordance with Section 19 of The Steam Boilers Ordinance.

During the past year I held examinations at various parts in the District.

Applicants for First Class Certificates .....	2
“ “ Second “ “ .....	20
“ “ Third “ “ .....	60 including
apprentices. Of this number who took the examination there graded as follows :	
1st Class .....	2
2nd “ .....	16
3rd “ .....	55
Failed, or recommended for Second Provisional Certificates. . . .	5

The number of boilers inspected by me during the past year was 332. The following is a description of boilers inspected :

Locomotive and portable fire box type .....	121
Horizontal tubular .....	93
Horizontal flue and furnace type .....	19
Return tubular .....	45
Water tube .....	6
Upright tubular .....	42
Upright cross sectional .....	6
Total .....	—332

I found these boilers in the following condition :

Good .....	253
Very fair.....	61
Fair .....	18

Repairs were ordered on six boilers this year, one boiler in particular was badly damaged, and a new crown sheet and retubing had to be ordered.

There are ten boilers not in use in this district, also eight new ones almost ready to operate.

There has been a steady improvement in the boilers in my district, which without doubt is largely due to the provisions of The Steam Boilers Ordinance. Many of the larger companies are ordering larger boilers built on modern principles to carry a high pressure of steam. I would advise all owners who contemplate installing large boilers to have them slung with a yoke or truss, and in this way strengthen and improve the condition of their plant. I know of several firms who have had to replace the walls of the plant as well as some of the brackets on the boilers where the necessity for this could have been prevented had the back end of the boiler been slung as stated. If this advice were carried out very little trouble would result in the way of failure of walls.

I have the honour to be, Sir,

Your obedient servant,

JOS. BUXTON.

*Inspector of Steam Boilers.*

#### SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance.

NAME	ADDRESS	DATE OF ISSUE
<i>First Class</i>		
Archibald, Harry P.....	Lethbridge .....	15 August, 1900
Allan, John S. B.....	Broadview.....	7 August, 1903
Brisette, Narcisse.....	Morinville.....	28 March, 1899
Bell, John.....	Prince Albert.....	"
Buxton, Joseph.....	Calgary.....	29 August, 1901
Cross, William.....	Calgary.....	28 March, 1899
Cook, George.....	Regina.....	"
Carment, William M.....	Kamsack.....	"
Collison, George.....	Coalfields.....	"
Codd, Ernest F.....	Calgary.....	5 June, 1900
Cadwell, Marcus D.....	Qu'Appelle Station .....	18 July, 1901
Caldwell, Robert.....	Edmonton.....	16 October, 1903
Cross, Isaac E.....	Ponoka.....	15 October, 1904
Evans, Daniel.....	Edmonton.....	28 March, 1899
Fraser, David .....	Strathcona .....	9 October, 1899
Fisher, Frank D.....	Fleming.....	11 April, 1901
Gale, Ernest A .....	Calgary.....	6 November, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>First Class—Continued</i>		
Holden, William J. ....	Indian Head.....	28 March, 1899
Hicks, Robert.....	Rossetti.....	24 December, 1900
Heist, William E. ....	Edmonton.....	18 December, 1901
Holden, Richard W.....	Hednesford.....	28 August, 1902
Hubbard, Sydney T.....	Edmonton.....	8 April, 1904
Hardy, Rowan F.....	Grenfell.....	18 March, 1904
Jackson, John A.....	Strathcona.....	23 October, 1900
Kirkland, Thomas.....	Yorkton.....	28 March, 1899
Kelly, John.....	Edmonton.....	1 December, 1903
Liston, Robert F.....	Battleford.....	29 March, 1899
LeCain, H. C.....	Hyde.....	29 January, 1903
Mayhew, William.....	Broadview.....	28 March, 1899
McNab, Franklin.....	Fort Qu'Appelle.....	28 March, 1899
McNaughton, Peter.....	Edmonton.....	9 October, 1899
McFee.....	Red Willow.....	22 November, 1904
Niven, Robert.....	Lethbridge.....	28 July, 1900
Roop, Warren E.....	Moose Jaw.....	15 November, 1900
Scott, John.....	Lethbridge.....	28 March, 1899
Smith, Percy Lewis.....	Prince Albert.....	4 April, 1899
Smith, John McKenzie.....	".....	"
Sutherland, J. A.....	Broadview.....	29 September, 1899
Stapley, Tobias B.....	Edmonton.....	18 April, 1904
Turgeon, Cleophas.....	Edmonton.....	28 March, 1899
Taylor, George R.....	Strathcona.....	"
Turner, Orlando H.....	Calgary.....	31 July, 1901
Waller, William.....	Whitewood.....	6 November, 1900
Wilcox, Wellington C.....	Moosomin.....	25 April, 1901
Yates, David.....	Banff.....	5 July, 1901
<i>Second Class</i>		
Amas, Frank.....	Qu'Appelle Station.....	29 September, 1899
Abbey, Oliver A.....	Moose Jaw.....	29 September, 1900
Abbott, James L.....	Moosomin.....	15 November, 1900
Anderson, C. J. B.....	Calgary.....	7 February, 1901
Arnold, Archie F.....	Yorkton.....	16 August, 1901
Angus, Robert.....	Angus Ridge.....	2 October, 1901
Anderson, Seymour A.....	Saltcoats.....	13 July, 1903
Askin, Michael D.....	Arcola.....	14 August, 1903
Adair, Thos F.....	Lippentott.....	3 November, 1904
Ballantyne, Robt.....	Calgary.....	14 March, 1904
Bourns, R. H.....	Whitewood.....	8 April, 1904
Boden, T. W.....	Weyburn.....	11 May, 1904
Barnhouse, Wm.....	Edmonton.....	26 May, 1904
Beare, W. J.....	Indian Head.....	14 September, 1904
Burkholder, H. J.....	Strathcona.....	15 October, 1904
Bawtinheimer, George H.....	Red Deer.....	4 September, 1899
Brayne, Joseph.....	Calgary.....	1 December, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Biery, Charles.....	Strathcona .....	7 March, 1900
Barley, George T.....	Prince Albert.....	28 May, 1900
Brydges, Alonzo H.....	Moosomin.....	30 May, 1900
Bierworth, Ernest.....	Carnduff.....	19 July, 1900
Burke, Fred.....	Gainsborough .....	7 August, 1900
Blachford, K. A.....	Edmonton .....	23 October, 1900
Boyes, Henry.....	Indian Head.....	30 October, 1900
Brown, John E.....	Spy Hill.....	24 December, 1900
Blain, J. W.....	Strathcona .....	31 December, 1900
Blair, Andrew.....	Lumsden .....	23 November, 1900
Bishop, Walter.....	Oxbow.....	20 April, 1901
Bennett, Joseph.....	Arcola.....	29 May, 1901
Bull, Francis W.....	Yorkton.....	16 August, 1901
Bannerman, James A.....	Red Deer.....	18 December, 1901
Brownlow, Henry A.....	Lacombe.....	23 December, 1901
Bell, Harry J.....	Sintaluta.....	19 February, 1903
Brewster, W. A.....	Edmonton.....	13 May, 1903
Bowden, H. S.....	Strathcona .....	"
Bull, Edmund W.....	Regina.....	28 August, 1903
Cope, Edmund G. M.....	Lethbridge .....	30 June, 1899
Clark, W. Harold.....	Edmonton .....	9 October, 1899
Cumming, Thomas C.....	Whitewood .....	15 November, 1899
Collopy, Alexander.....	Alameda.....	"
Conn, David.....	Lethbridge .....	23 March, 1900
Clow, Charles.....	Ellisboro.....	25 April, 1900
Chalmers, Walter N.....	Edmonton.....	28 May, 1900
Collopy, Thomas.....	Alameda.....	19 July, 1900
Cullen, James E.....	Calgary.....	21 February, 1901
Croft, J. Thomas.....	Carievale .....	15 April, 1901
Codd, Ernest.....	Wapella.....	23 January, 1902
Converse, Stephen J.....	Ponoka.....	6 March, 1903
Clifford, Robert A.....	Strathcona .....	13 May, 1903
Cooper, Thomas.....	Carievale .....	15 September, 1903
Cole, Henry.....	Halbrite.....	24 September, 1903
Chapman, A. B.....	Red Deer.....	18 April, 1904
Clark, Eldon.....	Carnduff.....	27 May, 1904
Clements, Lewis J.....	Arcola.....	19 July, 1904
Callery, Frederick.....	Calgary.....	12 September, 1904
Donaldson, Maxwell.....	Lethbridge .....	23 March, 1900
Dickson, William.....	Oxbow.....	19 July, 1900
Donald, J.....	Moosomin.....	29 September, 1900
Dyck, Abraham.....	Waldheim.....	20 November, 1900
Dimmick, W. J.....	Fleming.....	24 December, 1900
Darragh, Joseph.....	Oxbow.....	20 April, 1901
Drain, William.....	Prince Albert.....	30 May, 1901
Doughty, James.....	Calgary.....	25 July, 1901
Dash, Frederick J.....	Hillesden.....	29 August, 1901
Dagleish, Thomas.....	Wapella.....	"
Dresser, Bertram W.....	Wetaskiwin.....	18 October, 1904
Drees, Max L.....	Strathcona .....	"
Decker, W. H.....	Regina.....	10 November, 1904
Drader, J. A.....	Pincher Creek.....	30 December, 1904
Evans, Harry W.....	Anthracite .....	13 February, 1900
Eddy, Alexander.....	Medicine Hat.....	5 November, 1900
Emery, Ray E.....	Strathcona .....	15 October, 1904



SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—Continued.

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Flolliott, L. H.	Grenfell	29 September, 1899
Fitzgerald, Walter G	Belle Prairie	25 April, 1900
Ford, William H	Wideawake	24 January, 1901
Fothergill, Charles	Glen Adelaide	11 April, 1901
Foster, James	Glen Ewen	30 April, 1901
Fletcher, Thomas	Hillfarm	2 July, 1901
Freeman, Manfred	Lethbridge	18 August, 1902
Finch, Robert H.	Calgary	10 October, 1902
Finn, James E.	Fort Qu'Appelle	9 February, 1902
Frame, James F.	Lethbridge	6 October, 1903
Fleetwood, Howard A.	Edmonton	15 October, 1904
Fraser, Wm.	Strathcona	"
Fletcher, Alexander	Prince Albert	16 November, 1904
Friesen, A. B.	Winnipeg	23 November, 1904
Finlay, David M.	Moosomin	15 December, 1904
Green, George	Moose Jaw	29 September, 1899
Grant, George	Wolseley	25 April, 1900
Goodfellow, Willard R	Prince Albert	28 May, 1900
Goodman, J.	Moosomin	29 September, 1900
Gibson, Fred A.	"	"
Gamble, Alva H.	Moose Jaw	15 November, 1900
Green, Frederick W.	"	13 December, 1900
Grieve, David	Calgary	7 February, 1901
Gilchrist, Peter	Regina	14 September, 1901
Garratt, Lyle E.	Grenfell	25 August, 1902
Griffiths, Edward	Eastview	14 September, 1904
Garneau, Alexander	Strathcona	15 October, 1904
Grieve, Wm.	Calgary	28 October, 1904
Garner, Geo.	Prince Albert	16 November, 1904
Hubbard, Sydney T.	Edmonton	9 October, 1899
Hennigar, Edward J.	"	"
Hamill, Thomas T.	Whitewood	18 November, 1899
Haines, Alfred H.	Edmonton	7 March, 1900
Hillis, Henry	Medicine Hat	23 March, 1900
Humphrys, William	Cannington Manor	19 July, 1900
Holden, Albert	Indian Head	5 September, 1900
Hicklin, John William	Calgary	29 September, 1900
Hoyer, Richard	Hednesford	"
Hiscox, Thomas S.	Regina	"
Hunt, Arthur	Wapella	11 April, 1901
Hames, Alfred A.	Oxbow	20 April, 1901
Howell, Edward	Battleford	30 May, 1901
Honey, James	Maryfield	3 February, 1902
Hillis, Thomas	Lethbridge	18 August, 1902
Hammett, Richard	Wolseley	25 August, 1902
Hardy, Rowan F.	Grenfell	"
Hennig, Michael	Calgary	10 October, 1902
Hanson, Michael	Dundurn	15 May, 1903
Heimer, Frank A.	Moosomin	1 October, 1903
Henry, Chas.	Strathcona	18 April, 1904
Hobson, Francis W.	"	15 October, 1904
Heatley, Wm.	Beaumont	28 October, 1904
Irwin, Lester J.	Strathcona	15 October, 1904
Jones, Frederick W.	Strathcona	9 October, 1899
Judd, David H.	Calgary	5 October, 1901
Jones, William C.	Indian Head	4 October, 1902
Jarratt, Edward	Strathcona	15 October, 1904

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Keenan, James S.	Moosomin	21 March, 1900
Kerr, William.	Lethbridge	23 March, 1900
Kidd, Frederick	Calgary	14 June, 1900
Keith, John.	Fitzmaurice	14 August, 1900
Kowalcyck, Antoine	St. Paul des Metis	16 February, 1901
Kearns, William.	Qu'Appelle Station	26 August, 1901
Kohlruss, Johann.	Balgonie	30 August, 1901
Kennedy, Edwin R.	Portal, N.D.	27 August, 1903
Kaldec, J. J.	Wetaskiwin.	18 April, 1904
Lyon, William.	Moffat	5 September, 1900
Laidlaw, Robert.	Grenfell	24 December, 1900
Lapp, Charles T.	Alameda	20 April, 1901
Lacey, William R.	Calgary	10 October, 1902
Lamoureux, Alphonse.	Lamoureux	18 December, 1902
Lewis, William C.	Wapella	15 September, 1903
Livingston, John.	Carnduff	15 December, 1904
Macey, Charles R.	Oxbow	15 November, 1899
More, Robert.	Bredenburg	"
Moran, Austin.	Lethbridge	23 March, 1900
Morden, Phillip A.	Moosomin	11 April, 1901
Marshall, Charles H.	Carnduff.	"
Mitchell, George A.	Abernethy.	9 September, 1901
Mulberry, David.	Spy Hill	13 September, 1901
Moulding, Charles.	Broadview	24 September, 1901
Mitchell, James A.	Oxbow	3 October, 1901
Minty, Charles J.	Ferndale	19 February, 1903
Morrow, James W.	Grenfell	26 February, 1903
Marshall, Frederick J.	Kamloops, B.C.	14 August, 1903
Mitchell, Samuel D.	Percy	"
Moxon, Frederick I.	Sintaluta	22 August, 1903
Morrison, John S.	Gleichen	24 September, 1903
Mayhew, W. H.	Whitewood	8 April, 1904
Mortimer, Samuel M.	Strathcona	26 May, 1904
Munro, J. W.	Indian Head	10 October, 1904
Matheson, Daniel.	Brookside.	19 October, 1904
Marshall, Gilbert.	Regina	10 November, 1904
McKay, Daniel.	Lethbridge	30 June, 1899
McBeth, William M.	Prince Albert.	28 May, 1900
McGee, Thomas.	Whitefish Lake	14 June, 1900
McGuire, John.	Moosomin	19 July, 1900
McDougall, John.	Regina	28 July, 1900
McEwen, Duncan.	"	29 September, 1900
McBride, William L.	Prince Albert	20 May, 1901
McInnis, Neil B.	Regina	21 June, 1901
McKay, Finlay	"	"
McDonald, Allan	"	7 September, 1901
McCurdy, John A.	Moosomin	3 February, 1902
McKenzie, John D.	Oxbow.	29 April, 1902
McFayden, John.	Wapella	6 March, 1903
McConnell, William J.	Lethbridge	6 October, 1903
McClelland, W. E.	Grandview, Man.	15 March, 1904
McLaffin, W. G.	Ponoka	18 April, 1904
McEachern, D. V.	Battleford	20 May, 1904
McIntyre, John	Calgary	28 October, 1904
Nimmons, Robert.	Lethbridge	23 March, 1900
Nesbitt, John	Moose Jaw.	29 September, 1900
Neufeldt, Peter P.	Rosthern	20 November, 1900

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Osment, Walter J.	Indian Head	25 April, 1900
Omand, James.	Edmonton	13 May, 1903
Parcels, Timothy P.	Red Deer	4 September, 1899
Papzant, Ernest M.	Edmonton	9 October, 1899
Pratt, George	"	"
Pearce, Abram	"	28 May, 1900
Pajot, Jaques	Duck Lake	29 September, 1900
Pendygrasse, John S.	Halero	30 May, 1901
Porter, James	Wolseley	2 July, 1901
Partridge, Thomas E.	Sintaluta	24 September, 1901
Parke, John A.	Churchbridge	1 October, 1902
Powers, Thos. E.	Strathcona	26 May, 1904
Reed, R. W.	Lethbridge	30 June, 1899
Richards, Henry J.	Canmore	13 February, 1900
Ritchie, William J.	"	5 June, 1900
Rankin, Thomas H.	Banff	29 September, 1900
Rigby, William	Tregarva	"
Robb, David M.	Grenfell	9 May, 1901
Rice, John	Calgary	10 October, 1902
Ratray, Thomas	Edmonton	13 May, 1903
Rayner, Wm. J.	Indian Head	18 November, 1903
Roberts, W. B.	Ft. Saskatchewan	18 April, 1904
Stapley, Tobias B.	Edmonton	4 September, 1899
Schatz, William H.	Strathcona	9 October, 1899
Shaw, Maltman W. S.	Midnapore	1 December, 1899
Stafford, George	Lethbridge	23 March, 1900
Steven, James H.	Calgary	17 April, 1900
Shingler, Chas.	Grenfell	25 April, 1900
Shannon, John W.	Prince Albert	28 May, 1900
Stephenson, J. W.	Moose Jaw	13 December, 1900
Shirkie, Andrew S.	Grenfell	24 December, 1900
Stagg, George	Calgary	7 February, 1901
Steven, Alfred E.	"	"
Shelley, Henry J.	"	12 March, 1901
Scott, Wallace A.	Carlyle	29 May, 1901
Shea, Francis W.	Prince Albert	30 May, 1901
Sloan, William	Lethbridge	30 July, 1902
Sellars, Walter H.	Arcola	15 September, 1903
Symington, John F.	Willowbrook	30 September, 1903
Snelgrove, George L.	"	26 September, 1903
Shannon, James	Calgary	6 November, 1903
Shackleton, Thomas A.	Kamloops, B.C.	14 November, 1903
Springstein, Cecil B.	Regina	19 December, 1903
Smith, Ira	Indian Head	17 September, 1904
Starkey, Geo L.	Ponoka	15 October, 1904
Smith, G. A.	Churchbridge	21 October, 1904
Smyth, Barrows M.	Moose Jaw	10 November, 1904
Thompson, R. D.	Wolseley	13 November, 1899
Turner, Orneldo H.	Calgary	13 February, 1900
Toreson, Thomas	Wetaskiwin	7 March, 1900
Tompkins, Peter	Whitefish Lake	27 November, 1900
Topp, Edron	Carnduff	6 May, 1902
Thompson, John	Port Arthur, Ont.	30 August, 1902
Tulloch, A. J.	Broadview	6 March, 1903
Terry, William F.	Saskatoon	15 May, 1903
Thompson, Oliver H.	Estevan	10 June, 1904

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Second Class—Continued</i>		
Tripp, Jas. A. ....	Regina .....	14 September, 1904
Telford, J. W. ....	Prince Albert .....	16 November, 1904
Verey, George W. ....	Prince Albert .....	28 May, 1900
Vance, George W. ....	Moosomin .....	11 April, 1901
VonWendel, Carl .....	Calgary .....	6 November, 1903
VanHaast, Julius H. ....	Strathcona .....	5 November, 1904
Walker, J. B. ....	Lethbridge .....	30 June, 1899
Watson, Ernest P. ....	Strathcona .....	9 October, 1899
Walters, Bertrand .....	Grenfell .....	25 April, 1900
Winter, Robert S. ....	Wapella .....	"
Workman, Walter R. ....	Oxbow .....	19 July, 1900
Wood, Charles E. D. ....	Macleod .....	28 July, 1900
White, James .....	Canmore .....	5 September, 1900
Wiebe, William R. ....	Rosthern .....	20 November, 1900
White, William J. ....	Moose Jaw .....	13 December, 1900
Wright, Leslie .....	Gainsborough .....	15 April, 1901
Wiggins, James T. ....	Oxbow .....	20 April, 1901
Websdale, Francis C. ....	Edmonton .....	21 June, 1901
Watson, Hugh C. ....	Oxbow .....	3 September, 1901
Waldock, John G. ....	Medicine Hat .....	18 August, 1902
Waterfield, Thomas A. ....	Yorkton .....	1 October, 1902
Weeks, Albert G. ....	Regina .....	6 June, 1903
Wallace, William .....	North Portal .....	15 September, 1903
Wood, John A. ....	Weyburn .....	19 November, 1903
Watson, W. D. ....	Bankhead .....	19 December, 1904
<i>Third Class.</i>		
Aldous, Robert B. ....	Lorlie .....	29 September, 1899
Armstrong, Charles W. ....	Gainsborough .....	15 April, 1901
Adams, George A. ....	Carnduff .....	17 April, 1901
Albertson, Andrew O. ....	Strathcona .....	25 June, 1901
Aikman, George. ....	Calgary .....	11 September, 1902
Andres, Gerhard J. ....	Rosthern .....	26 September, 1902
Anderson, David .....	Elmore .....	14 October, 1902
Anderson, William .....	Indian Head .....	19 February, 1903
Allan, Albert .....	Edmonton .....	13 May, 1903
Alexander, Anthony .....	Duck Lake .....	13 June, 1903
Allison, Robert .....	Pasqua .....	22 August, 1903
Anderson, Henry C. ....	Regina .....	16 September, 1903
Alexander, Andrew W. ....	Yorkton .....	30 September, 1903
Allan, Arthur .....	Edmonton .....	18 April, 1904
Adams, W. J. ....	Balgonie .....	15 July, 1904
Ashworth, J. E. ....	Moose Jaw .....	"
Allcock, Nelson T. ....	Pasqua .....	"
Ashcroft, Joseph .....	Lethbridge .....	"
Black, Walter M. ....	Wolseley .....	29 September, 1899
Brown, Frank .....	Indian Head .....	"
Blatchford, Peter .....	Edmonton .....	28 November, 1899
Bergeron, Joseph .....	Fort Saskatchewan .....	28 May, 1900
Ballantyne, Archibald .....	Prince Albert .....	"
Brears, Edward .....	Clumber .....	24 August, 1900
Burkman, John A. ....	Whitewood .....	5 September, 1900
Beesley, John W. ....	Marlborough .....	13 December, 1900
Bonnycastle, Thomas .....	Katepwe .....	24 December, 1900
Barnes, Zechariah H. ....	Verna .....	5 March, 1901
Burman, George W. ....	Wapella .....	29 August, 1901

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Bushby, Joseph	Lumsden	7 September, 1901
Badley, James	Pense.	9 September, 1901
Barber, Samuel R.	Wolseley	24 September, 1901
Burke, Alfred H.	Elmore	3 October, 1901
Boyce, H. F.	Qu'Appelle Station	21 November, 1901
Burman, Charles D.	Qu'Appelle Station	"
Bawtinheimer, H. E.	Red Deer	18 December, 1901
Bannerman, William	Red Deer	"
Billo, Joseph	Edmonton	"
Bernier, Alexis	Lameureux	"
Bastien, Henry	Prosperity	23 January, 1902
Brook, James	Moosomin	3 February, 1902
Brook, Edward	Fairville	18 August, 1902
Berlinguette, Alfred	Whitford	"
Breckenridge, Robert S.	Rosthern	25 August, 1902
Blair, John	Indian Head	"
Bossard, Walter W.	Weyburn	21 November, 1902
Beard, William W.	Moosomin	6 March, 1903
Barber, Richard	Wolseley	9 March, 1903
Burwell, Arthur P.	Edmonton	24 April, 1903
Berg, John	Fort Saskatchewan	13 May, 1903
Bolduc, Joseph	Beaumont	"
Bowers, Richard J.	Strathcona	"
Briggs, Marshall R.	Red Deer	"
Beal, Alonzo	Davidson	3 July, 1903
Boyles, Geo. H.	Moosomin	7 August, 1903
Bateman, William R.	Eastview	14 September, 1903
Bonar, Alfred	Moose Jaw	"
Buell, Charles W.	Lumsden	"
Brown, William	Broadview	16 September, 1903
Bishop, William F.	Alameda	"
Beaton, Norman	Gordon	"
Bricker, Menno C.	Okotoks	6 November, 1903
Brown, Robert S.	Lamoureux	15 January, 1904
Burbank, Lyle A.	Calgary	10 February, 1904
Billo, Adolphe	Canmore	14 March, 1904
Boden, J. T.	Indian Head	15 March, 1904
Bierwirth, J. E.	Meridian	8 April, 1904
Bailey, R. B.	Edmonton	18 April, 1904
Brenton, J. R.	Edmonton	"
Bell, Arthur	Manor	28 June, 1904
Brown, J. A.	Hicksvale	8 July, 1904
Blair, John	Balgonie	15 July, 1904
Brown, John	Moose Jaw	"
Bateman, Ralph	Eastview	"
Barber, Wm.	Moose Jaw	23 August, 1904
Brown, W. J.	Regina	14 September, 1904
Bell, Thos.	Indian Head	24 September, 1904
Blair, W. H.	Indian Head	"
Balfour, David	Balcarres	"
Bettker, Christian	Lemberg	5 October, 1904
Bull, John T.	Regina	10 October, 1904
Bolduc, Peter	Beaumont	15 October, 1904
Bevington, G. E.	Strathcona	"
Boyce, John W.	Rossetti	19 October, 1904
Bell, Martin	Roganville	22 November, 1904
Currie, Laughlin	Strathcona	9 October, 1899
Cameron, John	Edmonton	"
Clement, Lewis J.	Carnduff	15 November, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Cross, William	Crescent Lake	15 November, 1899
Cooper, Watt	Canmore	13 February, 1900
Carscadden, F. W.	Strathcona	7 March, 1900
Clements, Charles H.	Fairmede	25 April, 1900
Chute, Clarence	Pasqua	15 October, 1900
Campbell, Thomas	Prince Albert	10 November, 1900
Clink, George J.	Lacombe	31 December, 1900
Campbell, Michael	Canmore	25 June, 1901
Campbell, John R.	Qu'Appelle Station	18 July, 1901
Christian, John E.	Prosperity	29 August, 1901
Chicard, Victor	Sintaluta	24 September, 1901
Cook, Thomas H.	Regina	23 November, 1901
Cruikshank, Charles	Red Deer	18 December, 1901
Clauson, John	Red Deer	23 April, 1902
Cudmore, Everard J.	Westview	7 August, 1902
Currie, William	Medicine Hat	18 August, 1902
Charvet, Eugene	Duck Lake	26 September, 1902
Currie, George D.	Regina	1 October, 1902
Chase, William	Wapella	10 October, 1902
Carefoot, William J.	Moosomin	"
Cameron, Malcolm G.	Dalesboro	13 May, 1903
Cameron, Alexander	Carlyle	14 August, 1903
Currie, Archibald	Medicine Hat	22 August, 1903
Cargo, Hugh L.	Fort Qu'Appelle	"
Clancy, Jacob W. W.	Regina	14 September, 1903
Crawford, Alvy	Saskatoon	30 September, 1903
Chandler, Frederick W.	Fleming	6 November, 1903
Collard, John A.	Moose Jaw	20 January, 1904
Calhoun, Culver	Calgary	14 March, 1904
Curtis, W. W.	Carstairs	18 April, 1904
Coulter, Frank	Edmonton	"
Cunningham, J. E.	Ellerslie	"
Clark, W. A.	Edmonton	"
Christoph, Godfrey	Strassburg	31 March, 1904
Coleman, A. J.	Manor	28 June, 1904
Cockwell, R. T.	Balgonie	15 July, 1904
Cross, Israel	Arcola	"
Crawford, Oscar D.	Regina	22 August, 1904
Callin, F. O.	Whitewood	5 October, 1904
Clearwater, Bert	Craik	10 October, 1904
Charette, Clifford	Beaumont	15 October, 1904
Cote, Joseph	Beaumont	"
Clark, John	Crescent Lake	21 October, 1904
Carruthers, J. A.	Calgary	28 October, 1904
Crichton, D. O.	Lethbridge	24 November, 1904
Coney, Thomas	Winlaw	15 December, 1904
Carpenter, David	Pincher Creek	4 December, 1904
Dash, Albert	Grenfell	29 September, 1899
Dixon, William	Sintaluta	"
Doan, John	Regina	5 September, 1900
Doman, Frederick	Moosomin	21 February, 1901
Dalrymple, Archy	Moose Jaw	8 August, 1901
Dargavel, A. M.	Wolseley	24 September, 1901
Downey, Jeremiah	Summerbury	27 August, 1902
Dyck, Francis G.	Hague	26 September, 1902
Delap, Thomas	Frank	30 September, 1902
Dagleish, Andrew	Moosomin	7 August, 1903
Donald, Alexander	Wolseley	22 August, 1903
Dorrell, Henry	Moose Jaw	"

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Demele, August	Qu'Appelle Station	3 September, 1903
DuBois, Roy C	Dundurn	5 September, 1903
Dozoy, Charles	Frank	30 September, 1903
Duncan, Thaddeus W.	Halbrite	10 October, 1903
Donnelly, J. M.	Indian Head	15 March, 1904
Dixon, F. L.	Oxbow	30 March, 1904
Dobbs, F. M.	Iowalta	18 April, 1904
Dilley, A. J.	Agricola	"
Druar, S. P.	Riviere Que Barre	"
Dubuc, Emile	Morinville	26 May, 1904
Dell, Ernest W	Eastview	15 July, 1904
Dash, Chas.	Hillesden	26 August, 1904
Dixon, Wm.	Balcarres	24 September, 1904
DeJong, Cornelius	Balcarres	"
Dalager, Peter	Bienfait	16 November, 1904
Demourest, Byron	Carnduff	15 December, 1904
Ellerman, Emil	Hyde	13 February, 1900
Embury, J. R.	Wapella	29 September, 1900
Erickson, John	Wetaskiwin	23 October, 1900
Engelland, Frederick C.	Edenwold	27 August, 1901
Ellis, John	Weldon	15 October, 1901
Edgington, Guy	Red Deer	18 December, 1901
Egaard, Anton F.	Oxbow	13 October, 1902
Eyre, William F.	Regina	13 May, 1903
Emberton, Julius	Prince Albert	23 June, 1903
Evarts, Lucius P	Calgary	14 August, 1903
Edberg, Elof O	Langenburg	4 November, 1903
Evarts, Philo	Banff	14 March, 1904
Erickson, David	Kennedy	14 September, 1904
Epp, P. C.	Lovell	16 November, 1904
Fotheringham, James	Grenfell	29 September, 1899
Fletcher, Alexander	Moose Jaw	"
Faulkner, Gilbert W	Grenfell	25 April, 1900
Fitzgerald, Gerald D.	Belle Prairie	"
Forsyth, George	Prince Albert	28 May, 1900
Ferguson, William	Moffat	5 September, 1900
Finn, James E.	Fort Qu'Appelle	23 November, 1900
Fowler, James Park	Moose Jaw	13 December, 1900
Flett, John	Flett's Springs	30 May, 1901
Friesen, Isaac P.	Rosthern	"
Fryn, Samuel	Coalfields	28 June, 1901
Fristad, George	Gainsborough	27 August, 1901
Fleming, Samuel	Wolseley	24 September, 1901
Flack, Samuel	Red Deer	18 December, 1901
Findlay, James F.	Leduc	"
Ferguson, William H.	Oxbow	28 April, 1902
Fair, Francis W.	Medicine Hat	18 August, 1902
Freed, Joseph H.	North Portal	30 August, 1902
Forge, James	Moose Jaw	30 September, 1902
Fergus, David M.	Yorkton	1 October, 1902
Fraser, William	Strathcona	13 May, 1903
Foster, William W.	Red Deer	"
Falkingham, Joseph	Hanley	14 August, 1903
Foster, John T.	Moose Jaw	1 September, 1903
Foulkard, Albert F.	Pense	14 September, 1903
Fieseler, William	Langenburg	6 October, 1903
Friesen, Jacob	Rosthern	16 October, 1903
Fraser, Charles	Okotoks	6 November, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued.</i>		
Fletcher, George C.	Pense	27 November, 1903
Fotheringham, David	Grenfell	15 March, 1904
Fallis, J. J.	Lumsden	31 March, 1904
Fluker, W. R.	Fort Saskatchewan	18 April, 1904
Flock, A. G.	Indian Head	14 September, 1904
Fisher, Carl	Drinkwater	15 September, 1904
Getty, Samuel	Moose Jaw	29 September, 1899
Gagnon, Alfred	St. Albert	28 May, 1900
Gray, William	Clumber	24 August, 1900
Godson, Charles	Fairville	29 September, 1900
Grue, Theodore S.	Bittern Lake	7 December, 1900
Gray, Joseph	Qu'Appelle Station	18 July, 1901
Gravy, John	Hyde	29 August, 1901
Gardiner, C. T.	Balgonie	30 September, 1901
Gedge, William J.	Moosomin	14 February, 1902
Gaetz, James F.	Red Deer	23 April, 1902
Gaddes, James	Grenfell	25 August, 1902
Giesbrecht, Jacob	Waldheim	26 September, 1902
Giles, William A.	Rosthern	"
Gray, William, Jr.	Clumber	30 September, 1902
Gillis, Murdoch	Whitewood	10 October, 1902
Gobel, Valentine	Hyde	24 October, 1902
Gougeon, Xavin	Saskatoon	29 October, 1902
Guess, Herbert	Saltoun	19 February, 1903
Grad, Adam	Balgonie	14 August, 1903
Gilmour, John G.	Moose Jaw	22 August, 1903
Gordon, Sandy	Caron	29 September, 1903
Gummow, John P.	Estevan	10 October, 1903
George, John	Kamloops, B.C.	13 January, 1904
Griffiths, W. H.	Anthracite	14 March, 1904
Giddings, Thos.	Calgary	"
Graham, D. M.	Indian Head	15 March, 1904
Grigat, John	Leduc	18 April, 1904
Goebel, H. C.	Edmonton	"
Galpin, Chas. W.	Regina	7 July, 1904
Hailey, William	Wolseley	29 September, 1899
Hewer, Jessey J.	Strathcona	9 October, 1899
Halflin, Mark	Wolseley	25 April, 1900
Harrold, David	Edmonton	28 May, 1900
Hawkes, A. G.	Broadview	5 September, 1900
Heffner, Frank	Bruederheim	15 November, 1900
Harms, Peter W.	Rosthern	20 November, 1900
Holden, J. A.	Strathcona	31 December, 1900
Hastings, James	Indian Head	24 January, 1901
Hargest, Richard	Edgeley	18 July, 1901
Holden, Samuel O.	Indian Head	26 August, 1901
Hubbs, Annet	Sintaluta	24 September, 1901
Hourie, James	Prince Albert	15 October, 1901
Hober, John W.	Ponoka	7 January, 1902
Hill, Edmund	Oxbow	28 April, 1902
Houghton, Charles N.	Carnduff	6 May, 1902
Hill, Alfred	Oxbow	"
Halliday, Ninian	Gainsborough	"
Hill, Albert C. M.	Grenfell	25 August, 1902
Hogg, Andrew G.	Carnoustie	10 October, 1902
Harris, Edward S.	Star	18 December, 1902
Hudson, Arthur C.	Edmonton	6 January, 1903
Hubbs, Charles	Sintaluta	19 February, 1903



SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued.</i>		
Hannah, George W. ....	Sintaluta .....	26 February, 1903
Havegaard, Rasmus T. ....	Whitewood.....	6 March, 1903
Hehsoerfer, Joseph .....	Edmonton.....	13 May, 1903
Heatley, William .....	Beaumont.....	"
Hopkins, James E. ....	Moose Jaw .....	22 August, 1903
Harrop, William.....	Indian Head .....	"
Henderson, George A. ....	Halbrite .....	27 August, 1903
Harold, Christopher .....	Caron .....	14 September, 1903
Hodgson, Robert C. ....	Battleford .....	"
Hodge, John.....	Carievale .....	16 September, 1903
Huck, Anton, Jr. ....	Qu'Appelle Station .....	17 October, 1903
Harrison, Frank H. O. ....	Pense .....	24 November, 1903
Haney, Sylvester.....	Lacombe.....	28 January, 1904
Hayter, Benjamin.....	Oxbow.....	13 February, 1904
Hurlburt, Wm.....	Arcola.....	30 March, 1904
Hilts, J. A. ....	Moosomin .....	"
Hine, A. J. ....	Glen Ewen.....	8 April, 1904
Hougestol, Anton .....	Wetaskiwin .....	18 April, 1904
Harrold, John .....	Edmonton.....	"
Hamilton, Geo. ....	Battleford .....	1 June, 1904
Honey, James, Jr. ....	Maryfield.....	28 June, 1904
Hutchison, John R. ....	Cannington Manor .....	"
Houston, R. W. ....	Prince Albert.....	15 July, 1904
Harrison, Jackson.....	St. Mary's.....	19 July, 1904
Hemmint, Herman .....	Stoughton.....	30 September, 1904
Hoyt, Ezra M. ....	Moosomin .....	7 October, 1904
Horsburgh, Andrew C. ....	Rouleau .....	10 October, 1904
Hutchings, H. E. ....	Edmonton.....	15 October, 1904
Hunter, Herman .....	Moosomin .....	19 October, 1904
Hardaker, John W. ....	Fairlight .....	"
Hewgill, F. M. ....	Moosomin .....	"
Ingram, Isaac .....	Strathcona .....	9 October, 1899
Ineson, George.....	Stony Plain .....	18 December, 1901
Ireton, Henry W. ....	Moosomin .....	19 February, 1903
Johnstone, Thomas .....	Qu'Appelle Station .....	29 September, 1899
James, William H. ....	Whitewood.....	15 November, 1899
Jackson, Charles .....	Calgary .....	19 July, 1900
James, Charles W. ....	Whitewood.....	11 April, 1901
Jones, Robert .....	Moose Jaw .....	8 August, 1901
Johnstone, Edward .....	Chickney .....	26 August, 1901
Joyner, Charles A. ....	Bentley .....	2 October, 1901
James, Dunham D. ....	Didsbury .....	1 November, 1902
Jevne, Ivan.....	Wetaskiwin .....	13 February, 1903
Jamerson, Johnston.....	Ponoka .....	24 April, 1903
Jones, Frank .....	Summerberry .....	22 August, 1903
Johnson, Conrid .....	Red Deer .....	29 August, 1903
Jones, Daniel E. ....	Alameda.....	16 September, 1903
Jarrat, Edward.....	Strathcona .....	18 April, 1904
Junker, Maxmillian .....	Balgonie .....	19 July, 1904
Jeavous, Harry J. ....	Whitewood.....	28 September, 1904
Jameson, Chas. W. ....	Ponoka .....	15 October, 1904
Krienke, C. F. ....	Wolseley .....	29 September, 1899
King, John .....	Regina .....	17 October, 1899
Krienke, Albert.....	Ellisboro.....	25 April, 1900
Kerr, William G. ....	Moosomin .....	29 September, 1900
Krause, Otto .....	Innisfail .....	1 October, 1901
Ketcheson Theodore .....	Moosomin .....	18 April, 1902

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Klippinstein Abraham	Rosthern	23 June, 1902
Klassen, John S.	Hague	26 September, 1902
Klaassen, Jacob C.	Rosthern	1 October, 1902
Kruppa, Jos.	Kaposvar	10 October, 1902
Klein, Oscar A.	Prince Albert	"
Kennedy, Daniel	Sintaluta	22 August, 1903
Kay, Edwin W.	Fairville	14 September, 1903
Koch, Carl	Balgonie	"
Kemp, Thomas D.	"	"
Kanggiesser, Simon	Lacombe	18 April, 1904
Kelsey, A. F.	Clover Bar	"
Kadles, J. J.	Wetaskiwin	"
Keil, Walter L.	Lumsden	15 July, 1904
Kennedy, Alex.	Indian Head	24 September, 1904
Krinke, Otto	Lemberg	5 October, 1904
Kirkpatrick, W. A.	Regina	15 October, 1904
Kuapp, Henry H.	Edmonton	"
Kawin, Johann	Langenburg	21 October, 1904
Lang, James	Okotoks	19 July, 1900
Lamoureux, Alcibiade	Lamoureux	15 November, 1900
Lewis, William H.	Innisfail	18 December, 1901
Lee, George	Edmonton	"
Loyal, Lawrence	Onion Lake	12 April, 1902
Louiselle, Jerry	Red Deer	23 April, 1902
Lundy, William T.	Innisfail	"
Leniczek, Adam	Neudorf	30 July, 1902
Lynch, Alexander W.	Blairmore	18 August, 1902
Loewen, Isaac C.	Rosthern	26 September, 1902
Livingstone, John N.	Indian Head	19 February, 1903
Lyseng, Knut K.	Bittern Lake	7 August, 1903
Linnell, Albert W.	Summerberry	22 August, 1903
Lindberg, Erick	Calmar	18 April, 1904
Langhausen, Jacob	Fort Saskatchewan	"
Langhausen, Peter	"	"
Lee, Andrew E.	Wetaskiwin	"
Lyll, Peter	North Portal	11 May, 1904
Lee, Wm. D.	Yorkton	2 August, 1904
Lehman, Harrison	Edmonton	15 October, 1904
Morkin, John	Dunbow	1 December, 1899
Martin, Magloire Z	Morinville	28 May, 1900
Merrill, Henry R.	Carnduff	19 June, 1900
Murray, James A.	Moosomin	29 September, 1900
Merchant, John	Lumsden	30 November, 1900
Mitchell, Timothy W.	Red Deer	7 February, 1901
Montgomery, James D.	Fleming	11 April, 1901
Melton, John W.	Prince Albert	30 May, 1901
Mather, E. M.	Calgary	6 June, 1901
Martin, F. H.	Moose Jaw	8 August, 1901
Macdonald, W. P. C.	Poplar Grove	29 August, 1901
Millham, Oliver C.	Hazelcliffe	"
Mackenzie, John D.	Dalesboro	2 October, 1901
Muth, John	Ebenezer	27 November, 1901
Morden, Jacob R.	Lacombe	18 December, 1901
Moore, John R.	Innisfail	"
Munier, Wilfred	Morinville	"
Miller, Phillip	Stony Plain	"
Meneely, William	Edmonton	"
Mikesthus, Michael	Leduc	"

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Morkeberg, D. ....	Innisfail.....	23 April, 1902
Moore, David .....	Gainsborough .....	6 May, 1902
Myllymaki, Jacob .....	New Finland .....	18 August, 1902
Mayhew, William H. ....	Broadview.....	25 August, 1902
Martens, Peter .....	Hague .....	26 September, 1902
Meilicke, Karle .....	Dundurn.....	30 September, 1902
Miller, William J. ....	Kirkpatrick .....	1 October, 1902
Marten, William A. ....	Broadview.....	4 October, 1902
Mortimer, Samuel.....	Strathcona .....	18 December, 1902
Mallery, William A. ....	Fleming.....	19 February, 1903
Moore, Homer S. ....	Dongola.....	"
Mitchell, David .....	Oxbow .....	13 May, 1903
MacCauley, James A. ....	Rabbit Hill .....	10 June, 1903
Morrison, James A. ....	Abernethy. ....	22 August, 1903
Martin, Henry E. ....	Regina.....	31 August, 1903
Munroe, John A. ....	Rouleau.....	3 September, 1903
Morris, George E. ....	Regina.....	17 September, 1903
Meilicke, Emil .....	Dundurn.....	24 September, 1903
Meilicke, Otto F. ....	Dundurn.....	"
Mik, Frank .....	Whitewood.....	30 September, 1903
Mitchell, Edward.....	Pasqua.....	24 November, 1903
Mooney, W. S. ....	Lacombe .....	18 April, 1904
Mayer, Ferdinand.....	Edmonton .....	"
Murray, A. A. ....	St. Albert .....	"
Meunier, J. H. ....	Morinville.....	"
Meredith, Wilbert.....	Edmonton .....	"
Mooney, G. K. ....	Regina.....	15 July, 1904
Matheson, Wm. A. ....	Moose Jaw.....	"
Millar, Alex D. ....	Regina.....	"
Murison, Wm.....	Carlyle .....	"
Meilicke, O. F. ....	Dundurn.....	14 September, 1904
Melton, Earl.....	Prince Albert.....	"
Mathews, Geo.....	Strathcona .....	15 October, 1904
Morgan, Oscar.....	" .....	"
Maifield, W. H. ....	Namao.....	"
Malpas, David .....	Churchbridge .....	21 October, 1904
Maserek, J. J. ....	Crescent Lake.....	"
Moerike, E. A. ....	Milestone.....	28 October, 1904
Mead, Francis A. ....	Pincher Creek.....	30 December, 1904
McKernan, James .....	Edmonton .....	9 October, 1899
McKen, James.....	Yorkton .....	15 October, 1900
McDonnell, Finley.....	The Sturgeon.....	23 October, 1900
McLellan, John .....	Fort Saskatchewan.....	15 November, 1900
McLeod, Millage J. ....	" .....	"
McKellar, John.....	" .....	"
McFadyen, Neil.....	Red Jacket.....	29 August, 1901
McKinlay, Murdoch.....	Stony Plain.....	18 December, 1901
McFadyen, John .....	Wapella.....	23 January, 1902
McLean, Archibald.....	Lethbridge .....	18 August, 1902
McDermaid, Malcolm.....	Indian Head.....	"
McLellan, John.....	Fort Qu'Appelle.....	25 August, 1902
McPhee, John.....	Lumsden.....	18 September, 1902
McDonald, Peter.....	Wapella.....	6 March, 1903
McKinnon, Donald .....	Earlswood .....	"
McLean, Alexander M. ....	Calgary .....	9 March, 1903
McLaren, John P. ....	Percy .....	30 March, 1903
McFarlane, Lewis.....	Carievale .....	24 April, 1903
McGarry, Fred.....	Lacombe.....	"
McDonald, William.....	Penhold.....	13 May, 1903

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
McConnell, James R.	Red Deer	13 May, 1903
McKen, John, Jr.	Yorkton.	6 June, 1903
McCartney, Claude	Indian Head	22 August, 1903
McGuire, Lee	Alameda	5 September, 1903
McElroy, Harmond H.	Arcola	16 September, 1903
McCartney, George R.	Moose Jaw	17 October, 1903
McIntyre, John	Calgary	6 November, 1903
McCorkindale, Harvey	Indian Head	15 March, 1904
McGregor, Samuel	Oxbow	30 March, 1904
McConnell, J. A.	Carnduff	8 April, 1904
McCauley, Alex.	Edmonton	18 April, 1904
McLean, J. A.	Star.	"
McDermid, A. D.	Edmonton.	"
McKim, Nelson W.	"	"
McArthur, Hector.	Oxbow	18 May, 1904
McFadyen, John R.	Strathcona.	3 June, 1904
McFarlane, Bernard.	Battleford.	30 June, 1904
McMillan, G. A.	Belle Paline.	15 July, 1904
McDonald, Malcolm	Mountain Mill.	14 September, 1904
McIvor, Geo.	Saskatoon.	"
McCann, Dennis.	"	"
McCann, Frank	"	"
McNabb, Alex.	Birch Hills.	"
McCall, Jas. F.	Coleman	24 September, 1904
McGillivray, Daniel.	Pense	10 October, 1904
McCarthy, J. R.	Saskatoon.	13 October, 1904
McLeod, D. J. W.	Strathcona.	15 October, 1904
McPherson, M. R. R.	Red Jacket	19 October, 1904
Nelson, Frank.	Wetaskiwin.	30 May, 1900
Nixon, T. H.	Wapella	29 September, 1900
Neufeldt, D. D.	Waldheim	20 November, 1900
Nixon, Kendal.	Wapella	24 December, 1900
Nichol, David.	Innisfail	18 December, 1901
Noyes, Daniel C.	St. Albert	"
Nilsson, Anders.	Ohlin	11 September, 1902
Neufeld, Hermon	Hague	26 September, 1902
Neufeld, D. P.	Rosthern	"
Neufeld, J. M.	"	"
Nichols, James J.	Edmonton	13 May, 1903
Niven, John.	Lethbridge	6 October, 1903
Neufeld, Abram J.	Rosthern	"
Nixon, John.	Wapella	19 October, 1904
Ottewell, Richard P.	Edmonton.	9 October, 1899
Olson, Edwin L.	Prince Albert.	4 October, 1902
Ovington, John	Moosomin	10 October, 1902
Oliver, Ernest H.	Calgary	6 November, 1903
Omand, John	Edmonton	18 April, 1904
Olson, H. B.	Ellerslie	"
Prince, Joseph A.	Battleford	11 July, 1899
Peirce, George J.	Red Deer	8 March, 1900
Pateman, George	Welwyn	30 May, 1900
Park, Richard P.	Maple Creek.	29 September, 1900
Pearce, James	Edmonton	23 October, 1900
Peters, Jacob	Osler	20 November, 1900
Perkins, William	Kenlis	24 December, 1900
Pinney, J. D.	Oxbow	24 September, 1901
Prentice, Charles W.	Wolseley	3 October, 1901

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Perry, M. Truman.....	Alameda.....	15 October, 1901
Putnam, Albert E.....	Edmonton.....	18 December, 1901
Powell, James A.....	".....	".....
Pearce, William.....	".....	23 April, 1902
Pugh, John.....	Calgary.....	".....
Pimm, John.....	Lethbridge.....	18 August, 1902
Peters, Frank A.....	Hague.....	26 September, 1902
Peterson, William.....	Yorkton.....	1 October, 1902
Pachal, Rudolph.....	Ebenezer.....	30 March, 1903
Powers, Thomas E.....	Strathcona.....	13 May, 1903
Pullshiy, William.....	Star.....	23 June, 1903
Peterson, Alfred T.....	Carnduff.....	5 September, 1903
Penner, Abraham.....	Rosthern.....	16 October, 1903
Porteous, W. M.....	Loon Creek.....	14 March, 1904
Pallesen, Peter.....	Calgary.....	".....
Piper, F. E.....	Red Deer.....	18 April, 1904
Parke, Norman G.....	Churchbridge.....	30 September, 1904
Plett, Isaac B.....	Lemberg.....	5 October, 1904
Parker, R. J.....	New Hastings.....	19 October, 1904
Peck, A. J.....	Crescent Lake.....	21 October, 1904
Ramsay, David.....	Winnipeg.....	1 August, 1899
Russell, Alexander B.....	Regina.....	29 September, 1899
Robinson, John.....	Edmonton.....	9 October, 1899
Ritchie, Charles.....	Cut Arm.....	15 November, 1899
Ritchie, James.....	Saltcoats.....	24 August, 1900
Rutherford, John.....	Medicine Hat.....	29 September, 1900
Ross, Thomas G.....	Edmonton.....	15 November, 1900
Rattray, Archie B.....	Edmonton.....	15 December, 1900
Roberts, William B.....	Beaver Hills.....	7 February, 1901
Reynolds, James J.....	Gainsborough.....	7 May, 1901
Rodgers, William L.....	Qu'Appelle Station.....	18 July, 1901
Rorison, Hugh H.....	Moose Jaw.....	8 August, 1901
Robertson, Alexander.....	Benbecula.....	29 August, 1901
Reed, James H.....	Yorkton.....	27 November, 1901
Reeve, Lewis H.....	Moosomin.....	18 April, 1902
Ross, William, A.....	Milestone.....	7 August, 1902
Rees, Ilted.....	Wolseley.....	25 August, 1902
Regier, Henry W.....	Rosthern.....	26 September, 1902
Rafie, Andrew.....	Bon Accord.....	2 October, 1902
Ryan, James.....	Wetaskiwin.....	22 October, 1902
Reynolds, John.....	Yellow Grass.....	18 November, 1902
Rose, Wallace.....	Prince Albert.....	6 June, 1903
Richards, Henry.....	Balcarres.....	22 August, 1903
Reimer, John F.....	Osler.....	30 September, 1903
Reddemann, Herman.....	Estevan.....	10 October, 1903
Rogers, F. A.....	Glen Ewen.....	30 March, 1904
Redeg, Valentine.....	Lacombe.....	18 April, 1904
Rivet, Arthur.....	Morinville.....	26 May, 1904
Rattray, Thos. A., Jr.....	Edmonton.....	".....
Robson, Robt.....	Estevan.....	7 July, 1904
Rogers, Geo.....	Yorkton.....	23 July, 1904
Ramsay, Jas.....	Coleman.....	7 October, 1904
Read, Nicholas R.....	Fairville.....	10 October, 1904
Rooke, J. M.....	Dalrymple.....	20 October, 1904
Smith, Gavin G.....	Battleford.....	11 July, 1899
Stadelbauer, Simon.....	Spruce Grove.....	18 September, 1899
Smith, N. T.....	Moose Jaw.....	29 September, 1899
Smith, James W.....	Moose Jaw.....	".....
Stewart, Thomas H.....	Strathcona.....	9 October, 1899

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Sanders, S. B.	Grenfell.	1 November, 1899
Smith, William F.	Athabasca Landing	28 November, 1899
Shaw, John Y.	Midnapore	1 December, 1899
Stine, Frank	Hyde	13 February, 1900
Stein, Andrew	Tiree	"
Saunders, Elias T.	Lethbridge	23 March, 1900
Steele, William L.	Oxbow	19 July, 1900
Snider, John B.	Okotoks	"
Steffes, Ferdinand.	Morinville.	15 November, 1900
Steffes, Joseph	Morinville.	"
Stine, Fred	Tiree	12 December, 1900
Stephens, Charles	Saltoun	24 December, 1900
Schlegel, Frank	Duhamel	26 January, 1901
Smith, Alfred A.	Prince Albert	30 May, 1901
Shaw, Ezra	Davin	29 August, 1901
Spooner, Francis W.	Red Deer Hill.	7 September, 1901
Stewart, Archie	Edmonton	"
Stulz, Frank	St. Albert.	18 December, 1901
Simpson, Robert N.	Edmonton	"
Sollitt, John H.	Strathcona	"
Siemens, Peter	Anthracite.	18 January, 1902
Sickavitch, Jah.	Grenfell.	15 March, 1902
Smith, Samuel W.	Leduc	23 April, 1902
Size, Francis W.	Whitewood.	28 June, 1902
Smith, George H.	Boharm.	7 August, 1902
Swartz, Jay	Tregarva	25 August, 1902
Strauss, Abram	Rosthern	11 September, 1902
Shantz, Jeremiah B	Didsbury	1 November, 1902
Stewart, John A.	Red Deer	24 November, 1902
Still, William	Vegreville.	18 December, 1902
Stewart, James A.	Beaver Hills	"
Strom, Theodore	Calgary	9 March, 1903
Shields, William K.	Strathcona	13 May, 1903
Simonson, Henry	Northern	6 June, 1903
Smith, Larnet E.	Ponoka	13 July, 1903
Smith, Henry T.	Kenlis	22 August, 1903
Soderlund, Oscar	Carnduff	16 September, 1903
Stradlund, Eric	Percival	"
Surgeson, Peter	Qu'Appelle Station.	23 October, 1903
Storey, John W.	Coalfields.	4 November, 1903
Springstein, Cecil B.	Regina	19 December, 1903
Sim, John	Grenfell.	15 March, 1904
Simonin, L. L.	Wolseley.	"
Scott, Robt.	Creelman	23 July, 1904
Shearer, F. B	Carlton	14 September, 1904
Smith, H. B.	Moose Jaw	15 October, 1904
Smith, J. W.	Moose Jaw	"
Schatz, Robert	Strathcona	"
Swift, W. T.	Edmonton	"
Stephenson, C. H.	Drinkwater.	28 October, 1904
Schiefner, F. L.	Milestone	"
Sturgill, Chas. E.	Puckahn	21 November, 1904
Thompson, Charles K.	Wolseley.	29 September, 1899
Thompson, Hugh	Moose Jaw	"
Trimble, H. W.	Red Deer.	18 December, 1901
Taylor, James A.	Iridian Head.	17 January, 1902
Thompson, Edmund H	Grenfell	25 August, 1902
Thurlby, Fred	Indian Head.	30 August, 1902
Townsend, Russell C.	Canmore	20 October, 1902

SCHEDULE of Holders of Certificates of Qualification under The Steam Boilers Ordinance—*Continued.*

NAME	ADDRESS	DATE OF ISSUE
<i>Third Class—Continued</i>		
Thomas, C. L. G.	Glen Ewen	13 May, 1903
Thompson, Luke D.	Alameda	14 August, 1903
Ternan, J. Henry	Boharin	22 August, 1903
Turner, Leonard J.	Gleichen	6 November, 1903
Terry, Peter	Okotoks	"
Trippel, Friedrich	Rosthern	13 January, 1904
Turnbull, Robt.	Strathcona	18 April, 1904
Townsend, Leon E.	Davidson	15 July, 1904
Tucker, G. H.	Balgonie	19 July, 1904
Trussler, A. E.	Highland Park	27 September, 1904
Taylor, Richard	Moosomin	19 October, 1904
Thomson, A. C.	Dunleath	21 October, 1904
Utas, Pete	Wetaskiwin	13 February, 1903
Umbach, William	Spruce Grove	13 May, 1903
Vogel, William	Strathcona	9 October, 1899
Van Meter, Charles E.	Millet	18 December, 1901
Vigar, William J.	Whitewood	25 August, 1902
Vanacker, Louis	St. Albert	13 May, 1903
Vidal, James A.	Katepwe	22 August, 1903
Witmer, Abram M.	Strathcona	9 October, 1899
Wilson, J. B.	Carnduff	19 July, 1900
Wilson, James E.	Calgary	"
Welk, D. A.	Rosthern	20 November, 1900
Wiebe, Heinrich P.	Hague	30 May, 1900
Wilson, William J.	Indian Head	26 August, 1901
Ward, William T.	Grenfell	29 August, 1901
Werner, Thomas J.	Carlyle	13 September, 1901
Wulff, Nick	Edmonton	18 December, 1901
Wilson, Richard F.	Carievale	6 May, 1902
Wiebe, Henry K.	Rosthern	23 June, 1902
Walker, Robert	Edmonton	18 August, 1902
Wyatt, William R.	Drinkwater	18 September, 1902
Woods, Thomas	Wapella	10 October, 1902
Walker, Thomas	Coalfields	21 October, 1902
Wilcott, Joseph F.	Manor	24 October, 1902
Wood, John J.	Gainsborough	10 November, 1902
Wickham, William S.	Brookside	6 March, 1903
Woolsey, William	Carnduff	5 June, 1903
Wagman, Wendelin	Qu'Appelle Station	3 July, 1903
Waddingham, John	Indian Head	18 September, 1903
Weder, Frank	Beaver Hills	28 October, 1903
White, William E.	Indian Head	7 December, 1903
Wells, Charley	Rosenroll	18 April, 1904
Winn, Wm. S.	Moose Jaw	15 July, 1904
Willock, Robt. G.	Willocks	"
Weaver, Lee	Redvers	28 July, 1904
Walker, W. J.	Broadview	13 October, 1904
Wardrop, John L.	East Clover Bar	15 October, 1904
Wilson, J. H.	Prince Albert	18 October, 1904
Wright, Geo. W.	Calgary	28 October, 1904
Westcott, Edward	Whitewood	17 January, 1904
Will Lewis	Bankhead	31 January, 1904
Young, Arthur	Banff	14 March, 1904
Young, Geo.	Brancepeth	14 September, 1904
Zuehlke, F. C.	Urquhart	18 December, 1901

## DEPARTMENT OF PUBLIC WORKS

## ACCOUNTANT'S BRANCH.

Staff .....	} 1 accountant. 1 assistant accountant. 1 clerk.
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In the former part of the report reference was made to the expenditure incurred by this department during the past six years from 1899 to 1904 inclusive. The following statement will help to illustrate the amount of work done by this branch of the department during the year:

Total amount voted for public works .....		\$611,500 00
Total amount expended .....		611,419 50
Number of accounts examined, certified and passed to Treasury Department for payment .....	5,677	
Amount collected as departmental revenue and paid to credit of general revenue .....		12,198 37
Amount received on account of Large Local Improvement Districts and deposited to trust accounts .....		141,112 71
Number of accounts for work in Large Local Improvement Districts examined and passed for payment.....	846	
	<hr/>	6,523
Number of cheques issued in payment of accounts in Large Local Improvement Districts .....	2,300	
Amount received in payment overdue taxes in Small Local Improvement Districts and paid through trusts account to proper districts .....		26,136 37
Number of cheques issued do .....	2,467	
Amount received in payment of taxes in school districts and forwarded to districts .....		13,618 05
Number of cheques issued.....	1,600	
Total cheques .....	<hr/>	6,367
Total amount dealt with through books of department during year .....		\$804,485 00

As already stated, the sum of \$239,197.77 more than last year was expended during 1904, the total amount dealt with through the books of the department being \$804,485.00, or an increase of \$398,085.00 over the amount of work handled in 1903.

By way of explanation it might be stated that the apparent decrease from \$14,148.13 to \$12,128.37 in the amount of departmental revenue is rather misleading, as in 1903, \$3,000.00 received from the Dominion Government on account of reimbursements for works performed by this department was included in departmental revenue. In view of this fact, the actual departmental revenue would increase during 1904 by something over \$1,000.00.

*Administration and Supervision.*

As in the previous reports under this heading, information was given to show the cost of supervision and inspection of public works. The cost of superintendance and inspection was 1.20% in 1903, and notwithstanding the increase in work and the additional assistance it had fallen to 1.02% this year. The cost of administration and supervision was 3.30% in 1903, and this year it was 4.49%. The increase is accounted for by the cost of local improvement administration being added to cost



of the regular staff, which was not done heretofore. Providing the local improvement staff expenditure was omitted the cost of administration and supervision would be 3.03%.

The subjoined statement will show the total amount dealt with cost of staff, percentage of cost of administration, amount expended on works requiring superintendence and inspection and percentage of cost of such inspection.

Total amount dealt with by the department during the year as shown by foregoing statement .....	\$804,485 00
Total expenditure for departmental staff.....	24,393 84
Percentage of cost of administration.....	3 03
Percentage of cost of administration including local improvement staff .....	4 59
Amount expended on dams, ferries, maintenance bridges roads and other public works requiring superintendence and inspection .....	338,527 17
Amount expended for superintendence and inspection ..	3,475 73
Percentage of cost for superintendence and inspection..	1 02

The low cost of administration and supervision, and for superintendence and inspection, has been due in a great measure to efficient administration of departmental affairs and not to any decrease in salaries of the staff, which on the contrary, have been increased.

#### SURVEYS BRANCH.

Staff.....	{ Directors of Surveys 3 clerks and stenographers 9 district surveyors and engineers
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REGINA, *January 31st, 1905.*

JOHN STOCKS, ESQ.,  
*Deputy Commissioner of Public Works,*  
Regina, Assa.

SIR,—I have the honour to report as follows regarding the work in the surveys branch during the past year.

The office work in connection with this branch consists largely of preparing instructions for the district surveyors and engineers, receiving and examining their returns, filing plans in the Land Titles office and the Department of the Interior at Ottawa, examining titles received for the roadways according to said plans and settling claims to compensation on account of lands required for right-of-way and damage to private property affected by the surveyed trails and drains.

The statement below will give an idea of the documents filed in the department and also show the nature of the work done during the year.

Surveys carried forward from 1903 .....	386
Surveys requisitioned for during 1904.....	465
Surveys for which instructions were issued.....	580
Surveys completed.....	382
Plans received and recorded .....	274
Field books received and recorded .....	28
Preliminary agreements for right of way received and recorded .....	466
Transfers received and recorded .....	169
Certificates of titles received and recorded.....	422
Amount paid for right of way.....	\$15,848.71

Average price per acre.....	\$5.00
Miles of road allowance for which applications to lease have been received.....	130
Number of applications.....	61
Miles leased, renewals 163, new leases 35, total.....	198
Number of payments made in settlement of claims to compensation for right of way on account of surveyed roads and drains.....	467
Number of owners written under Ordinance.....	233
Number of owners written under Ordinance, second time, (on reconsideration).....	35
Number of owners accepting second ruling.....	32
Number of these cases unsettled.....	10
Appeals to arbitration.....	1

After the amendment to The North-West Territories Act was passed in 1902, vesting the land required for surveyed roads in the Crown, on filing a copy of the plans in the Land Titles office, the practice of securing transfers from the owners was abandoned, it being thought that the land was vested in the Crown when the plans were deposited with the several registrars. On a closer investigation, however, it was found that in some of the Land Titles offices the plans were not even given a day book number and therefore could not be said to be *filed* in any sense of the word, and when action by the registrars was insisted upon, it was claimed by them that The Land Titles Act and The North-West Territories Act conflicted regarding road plans and further action was refused. When the matter was further followed, it was found that the real cause of delay was lack of assistance to do the necessary work in connection with the filing of these plans, which difficulty was overcome by placing a clerk paid by this department, in the Land Titles offices at Regina and Calgary, the Land Titles office at Battleford having very little of our work to do, while at Prince Albert and Edmonton it was taken hold of with a strong hand and brought up to date, or nearly so, with their own staffs early in the year, thus placing themselves in a position to deal with road plans as they are sent to them in future. In October the Department of the Interior agreed to pay the salary of our clerk in the Regina office, but we continued to retain the one in the Calgary office to the end of the year and it is to be hoped that their services in both offices will be continued at least until all back work is closed up. The clearing up of the old work has enabled us to settle many old claims to compensation and a decided improvement is noticeable in the tone of the correspondence reaching the department from owners of lands affected by road surveys, and it is expected that during the first six months of 1905 the greater part of the outstanding claims will be settled.

A word of explanation might be given regarding the amendment of The Public Works Ordinance in 1903, whereby owners dissatisfied with the Commissioner's ruling as to their claims can submit the matter to arbitration. If it is considered that the amount offered by the Commissioner is not sufficient the owner may ask for a reconsideration, and if still dissatisfied with the second offer, steps may be taken to submit the matter to arbitration. Where the claims of the owner are considered reasonable by the Commissioner payment is made in accordance therewith, otherwise an offer is made under the provisions of The Public Works Ordinance. You will notice in the statement above that 233 offers have been made, and it has been necessary to write only 35 of these a second time and of that 35 all but three have accepted the amount offered. In all ten cases

remain unsettled while only one has taken steps to submit the matter to arbitration. So it may be assumed that these cases have been settled very satisfactorily to the settlers.

At the beginning of the season the Commissioner ruled that no more trails should be opened across country, but instead traffic be confined to the statutory road allowances, making diversions around natural obstructions where the estimated cost of improvement would not exceed the amount necessary to pay for the land for right of way should a diversion survey be made. In some cases, however, the settlers have agitated for the opening of blind lines or centre section lines, especially where the towns on the several railways are situated midway between the statutory road allowances running east and west which are two miles apart, but in each case, before such roads are opened, it has been necessary for those interested to secure agreements from the different owners whereby they agree to give the land required for the right-of-way. This method has been found to be most satisfactory in every case.

Arrangements were made with the Department of the Interior, at Ottawa, early in the year by which they agreed to make reservation for the land required for our surveyed trails, which affected unpatented lands, if certified tracings of the surveyor's plans are filed with them for that purpose. This method of dealing with trails through homestead property avoids the usual delay which was invariably experienced under the old system of securing assignments from the entrants for the area required for roads through unpatented lands, such assignments to be deposited with the Department of the Interior, it being almost impossible in some cases to establish communication with them, especially if the homestead had been abandoned without notification to the Dominion Land office. These arrangements, while lessening the correspondence of the office, require additional assistance to prepare the necessary copies of the plans, but the advantage derived, from being able to acquire the title to the lands at once, can be readily understood.

An effort has also being made during the past year to arrive at an understanding regarding the old trails which were surveyed by the Department at Ottawa and transferred to the Lieutenant-Governor of the Territories for public use; for while The Land Titles Act provides for the right of way for these roads whether or not they are mentioned on the title of lands affected, it is found that a great deal of dissatisfaction exists throughout the Territories where lands were purchased without the knowledge of an existing trail therethrough. It is hoped, however, that steps will be taken at an early date to remove any misunderstanding in the future regarding this matter, when lands affected by trails are purchased or homesteaded.

Mention might also be made of the material assistance rendered to the department by most of the companies holding lands within the Territories they, realising no doubt, the advantage to adjacent lands when road improvements are undertaken, have been most courteous regarding right-of-way required from their lands, and in many cases have made provision for the road in sale of lands before being compensated for the area taken. The co-operation in this respect on the part of the different companies controlling lands throughout the Territories does much towards relieving any dissatisfaction which might otherwise arise and which if once generated in any locality is carried on interminably.

The local organisations will in time no doubt prove of great assistance to the department in determining the necessity of deviation surveys in preference to injudicious attempts to improve the statutory road allowances, but at the present it is regrettable that the councils are too apt to endorse applications for surveys without being fully apprised of their nature or necessity, such action will, however, diminish as the more efficient settlers are selected as representatives in the local councils.

In addition to the surveys made by the district surveyors and engineers it was found necessary to engage local surveyors in order to have the more urgent work completed before the hard weather rendered it necessary to close operations in the field. R. C. Laurie, D.L.S., made a survey to connect the bridge across the Battle river at Battleford with the Saskatoon-Battleford trail, also completed the survey of the old Battleford-Cut Knife trail for a great part of the way. H. H. Moore, D.L.S., Calgary, surveyed the new road from Calgary to Cochrane south of the Bow river, a portion of the Calgary-Knee Hill trail and a diversion to the old Calgary-Millarville trail to permit access to the new bridge site below the Weasel Head crossing of the Elbow river on the Sarcee Indian Reserve. Samuel Brodie, D.L.S., Fort Qu'Appelle, retraced the old Troy-Prince Albert trail between South Qu'Appelle and Fort Qu'Appelle, also some surveys for right-of-way for drains near Qu'Appelle.

Owing to the increased amount of work in the former district of East Assiniboia it was found necessary to divide the district into Qu'Appelle and East Assiniboia. W. T. Thompson, district surveyor and engineer of East Assiniboia retaining Qu'Appelle or the western part of his old district, while H. K. Moberly, D.L.S., formerly assistant to A. Driscoll, district surveyor and engineer for North Alberta, was engaged to take charge of East Assiniboia with headquarters at Moosomin.

C. H. Ellacott having resigned his appointment as drainage engineer in April, this work was turned over to T. H. Wiggins formerly assistant chief surveyor, who also took charge of the District of Centre Assiniboia with headquarters at the department.

A list of the surveys completed and examinations made in the various Public Works Districts will be found in the report of each surveyor and engineer.

Your obedient servant,

F. J. ROBINSON,

*Director of Surveys.*

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*Public Works District of North Alberta.*

EDMONTON, ALBERTA, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,*  
Regina.

SIR,—I have the honour to report on the work performed by this office during the past season, as follows:—

My first instructions arrived early in May and I started work on the 18th of the month, keeping my party in the field until the 24th of November and succeeded in completing about all the work for which instructions had been sent me, with the exception of the Victoria trail, which has again been laid over owing to pressure of other work.

From a weather point of view the work of 1904 has been more satisfactory than for some years past, the wet years of 1899-1903 seem to have given place to a dry term, as sloughs that last year were full of water are now dry, and roads that of late have been almost impassable on the same account are now again in good shape for travel. In this connection I have to say that much is due the various labour districts which seemed to realise that the dry years was the proper time for the repair of roads, and the result has been three times the amount of work as during any one of the last five years.

In the matter of drains, only requests for the drainage of permanent water areas seem to have been made this year, which considerably lessened the amount of work of that description we usually have to do during a season. It is realised, however, that the present dry seasons which have apparently begun will give place again to wet, and there is an evident desire to prepare for them in the shape of drains, so that we may look for an increase in that class of work next year.

Two important pieces of work have been completed this year, first, the bridging of the Borwick sloughs on the Battleford trail, which have been a source of much trouble for the last four years, and second, the drainage of Favels and intermediate lakes north of town. This last piece of work has been under construction for the last three years and to be appreciated must be seen. A third piece of work of this description is well under way, viz., the reclamation of the lake country between Strathcona and Ellerslie, six miles south of the former place. Ditcher No. 1 has been employed on this work during the past season and has completed over two miles of drain, the cuts of which are in places over twelve feet deep. It will probably take another season to complete this drain.

A great deal of work has been done generally this year by the department in the shape of grading and providing bridges, etc., but being under the supervision of others and requiring only an occasional inspection by this office, will not be detailed in this report.

In conclusion, I have to say that I have been fortunate in my assistants during the past season. A tactful staff is of great help in dealing with the class of work coming under this office, and I think there has been very little friction caused.

Following is a list showing the different surveys made.

Your obedient servant,

A. DRISCOLL,  
*District Engineer and Surveyor.*

#### DRAINS.

- Drainage of lake on north boundary of section 36 township 52 range 24 west of the fourth meridian.
- Drain No. 4 renewing grade and slope stakes.
- Drain No. 58 renewing grade and slope stakes.
- Drain No. 110 renewing grade and slope stakes.
- Drain between Two Creeks and Star, renewing grade and slope stakes.
- Drain along road allowance east of section 29 township 54 range 22 west of the fourth meridian.
- Drain along north boundary of section 32 township 52 range 27 west of the fourth meridian.
- Drain along east boundary of sections 5, 8, 17, 20 and 29 township 55 range 23 west of the fourth meridian.
- Restaking and extending drain in sections 13 and 23 township 56 range 24 west of the fourth meridian.

Restaking drain on north boundary of section 22 township 50 range 24 west of the fourth meridian.

Examination of drain between Two Creeks and Star for final payment.

Drain on the south boundary of section 3 township 51 range 14 west of the fourth meridian.

#### NEW ROADS and Trails.

Dowler hill road, Edmonton settlement.

Survey of road across Mounted Police Reserve, Fort Saskatchewan.

Road to bridge in N.W.  $\frac{1}{4}$  section 13 township 54 range 23 west of the fourth meridian.

Road along blind line north of sections 13, 14, 15 and 16 township 50 range 24 west of the fourth meridian.

Road between north and south halves of section 11 township 54 range 25 west of the fourth meridian.

Road across section 11 township 52 range 23 west of the fourth meridian.

Re-survey of part of St. Albert trail in section 29 township 53 range 25 west of the fourth meridian.

Survey of road across section 24 township 50 range 28 west of the fourth meridian.

Survey of road across section 26 township 50 range 27 west of the fourth meridian.

Survey of road across section 18 township 50 range 27 west of the fourth meridian.

Survey of road across section 7 township 50 range 27 west of the fourth meridian.

Survey of road along blind line east of section 26 and north of section 25 township 49 range 28 west of the fourth meridian.

Survey of Millett and Pigeon lake trail in township 47 ranges 24, 25, 26, 27 and 28 west of the fourth meridian, and ranges 1 and 2 west of the fifth meridian.

Survey of road around the Borwick slough in township 56 range 16 west of the fourth meridian.

Re-survey of Cooking lake trail.

#### ROAD Diversions.

Diversion on N.W.  $\frac{1}{4}$  section 9 township 53 range 25 west of the fourth meridian.

Survey through section 20 township 52 range 24 west of the fourth meridian, to connect Main street, Strathcona, with the Hay lake trail.

Road diversions in sections 19 and 20 township 51 range 23 west of the fourth meridian.

Road diversion north boundary section 23 township 52 range 1 west of the fifth meridian.

Road diversion in S.W.  $\frac{1}{4}$  section 24 township 51 range 24 west of the fourth meridian.

Road diversion along east boundary of section 26 township 50 range 24 west of the fourth meridian.

Road diversion in N.E.  $\frac{1}{4}$  section 16 township 50 range 24 west of the fourth meridian.

Road diversion in N.E.  $\frac{1}{4}$  section 7 township 56 range 23 west of the fourth meridian.

Road diversion through section 11 township 47 range 25 west of the fourth meridian.

Road diversion on road leading east from Leduc in sections 21, 22 and 23 township 49 range 24 west of the fourth meridian.

Road diversion in section 3 township 47 range 27 west of the fourth meridian.

Road diversion around Huard lake in section 4 township 47 range 23 west of the fourth meridian.

Road diversion between north and south halves of section 5 township 47 range 23 west of the fourth meridian.

Diversions along blind line road north of sections 16 and 17 township 47 range 23 west of the fourth meridian.

Road diversion in section 11 township 56 range 19 west of the fourth meridian.

Road diversion in section 22 township 56 range 19 west of the fourth meridian.

Road diversion in section 21 township 56 range 19 west of the fourth meridian.

Road diversions in sections 18 and 19 township 47 range 23 west of the fourth meridian.

Road diversions in sections 23, 24 and 26 township 56 range 19 west of the fourth meridian.

Road diversion in s.e.  $\frac{1}{4}$  section 30 township 53 range 21 west of the fourth meridian.

Road diversion across school section 29 township 55 range 23 west of the fourth meridian.

#### EXAMINATION and Inspection.

Inspection of road and location of bridge over Sturgeon river at St. Albert.

Inspection and location of bridge, Point-aux-Pins creek, east boundary section 14 township 54 range 23 west of the fourth meridian.

Examination of bridge over Beaver creek in n.e.  $\frac{1}{4}$  section 33 township 55 range 19 west of the fourth meridian.

Examination of road around Borwick slough.

Examination and levels for grade at Hardisty bridge, section 28 township 55 range 22 west of the fourth meridian.

Examination of road north boundary section 36 township 52 range 24 west of the fourth meridian.

Examination of Dowler's hill road.

Inspection of ditch and grading on 14th base line west of Edmonton.

Examination of road through Stoney Indian Reserve.

Inspection of grading along ditch No. 2.

Examination and inspection of work done on correction line north of township 54 ranges 21 and 22 west of the fourth meridian.

Examination and inspection of road work near bridge over Mill creek, section 28 township 52 range 24 west of the fourth meridian.

Examination of road through sections 18 and 19 township 50 range 27 west of the fourth meridian.

Examination for road in township 47 range 23 west of the fourth meridian.

Examination of Wetaskiwin and Pigeon lake trail from township 46 range 27 west of the fourth meridian, north.

Examination of road south of sections 6 and 5 township 47 range 24 west of the fourth meridian.

Examination of road along east boundary of section 21 township 56 range 19 west of the fourth meridian.

Examination of road allowance along north boundary of section 22 township 56 range 19 west of the fourth meridian.

Examination of road along east boundary of section 28 township 56 range 18 west of the fourth meridian.

Examination of road in section 30 township 56 range 15 west of the fourth meridian.

Examination of road along north boundary of section 8 township 53 range 21 west of the fourth meridian.

Examination of drain No. 1.

Examination of part of Victoria trail across sections 2 and 3 township 55 range 22 west of the fourth meridian.

#### *Lacombe Public Works District.*

RED DEER, ALBERTA, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,*

Regina, Assa.

DEAR SIR,—I have the honour to submit the following report in connection with the work performed by me in the Lacombe Public Works District for the season 1904, a classified schedule of which is hereto attached.

Owing to an unusually late spring with heavy rains, which rendered the roads impassable, I was unable to commence field operations until May 25th when I proceeded at once for the southern part of the district. From this point I intended working north and as far east and west of the

Calgary and Edmonton branch of the Canadian Pacific railway as my work extended, which in a number of cases exceeded fifty miles, and finally completing the season's operations in the vicinity of Dried Meat lake about sixty miles east of Wetaskiwin. I found no difficulty in handling the work for which instructions were issued under the system adopted by your department, that is, by issuing instructions in order along the route laid down by the district engineer and surveyor before commencing work in the spring. This is very necessary in the Lacombe district where the work is spread over a large and comparatively narrow area, and it can be readily understood that considerable time would be lost if it was found necessary to return over the same route in order to complete the work which has been overlooked. I am pleased to report having with one or two exceptions, completed all the work for which instructions were issued, this, however, was largely owing to an unusually favourable season and the excellent condition of the roads. I found a marked improvement in the condition of the roads throughout the whole of the district. Favoured by an unusually dry season and liberal grants from your department the officials of the several districts were enabled to perform a larger amount of permanent work than was possible in the last few years.

From what information I could gather this season the new districts formed earlier in the year seem to be accomplishing the work intended and the interest taken by the general public in the improvement of the roads is shown, in many cases by a voluntary increase of assessment over that levied under the old system and in all cases the money has been economically expended.

I found that owing to the change in conditions, that is from a wet to a dry season, a number of road surveys made some years ago and also some of which have been applied for, may be abandoned, the sloughs which were to be avoided having in the meantime become sufficiently dry to admit of their being graded. This is more noticeable in the cases of the old trails east of Wetaskiwin which a number of settlers have for some time urged the department to survey and establish. These, however, have been allowed to stand pending the final location of the branch lines of the Canadian Pacific railway and also with a view of avoiding, if possible, the irreparable damage done by the survey of these roads by cutting the lands thereby into several fractions. If the moderately dry seasons continue for a few years I am of the opinion that there will no necessity for establishing these trails, as the road allowance will be opened and improved in lieu of the same without any considerable difficulty.

I regret to say that the steam ditcher operating in the vicinity of Morningside encountered some very bad ground, and owing to this and the lateness in starting work (about the middle of August), the work was not what might be expected of a machine of this description. There was very little drainage work in the past season, all of which was undertaken by the districts, but, as they were constructed and the right of way arranged by mutual agreement, no report or assessment was necessary.

My party, throughout the whole season from May 25th to November 3rd, consisted of one assistant, four men and a cook. My transport, etc., included two teams and two waggons with the usual camp equipage for a party of this size.

Your obedient servant,

A. E. FARNCOMB,

*District Engineer and Surveyor.*



## ROAD Diversions.

- Change in Coal lake trail in sections 35 and 26 township 46 range 23 west of the fourth meridian.
- Change in Calgary and Edmonton trail in section 24 township 34 range 29 west of the fourth meridian.
- Change in road diversion in section 21 township 35 range 26 west of the fourth meridian.
- Road diversion in section 34 township 37 range 26 west of the fourth meridian.
- Road diversion in section 20 township 37 range 27 west of the fourth meridian.
- Road diversion in section 35 township 38 range 27 west of the fourth meridian.
- Road diversion to bridge over Blindman river between townships 39 and 40 range 1 west of the fifth meridian.
- Road diversion section 34 township 39 range 1 west of the fifth meridian.
- Road diversion section 33 township 39 range 1 west of the fifth meridian.
- Road diversion sections 4 and 5 township 40 range 1 west of the fifth meridian.
- Road diversions around bend of Blindman river in section 34 township 39 range 1 west of the fifth meridian.
- Change in Blackfalds and Buffalo lake trail section 17 township 39 range 26 west of the fourth meridian.
- Road diversion in sections 25 and 26 township 41 range 26 west of the fourth meridian.
- Road diversion in section 10 township 42 range 26 west of the fourth meridian.
- Road diversion in section 31 township 41 range 24 west of the fourth meridian.
- Road diversion in section 28 township 46 range 21 west of the fourth meridian.
- Road diversion in section 20 township 46 range 21 west of the fourth meridian.
- Road diversion in sections 5 and 32 township 45 range 22 west of the fourth meridian.
- Road diversion in sections 21 and 28 township 45 range 22 west of the fourth meridian.
- Road diversion in section 23 township 45 range 22 west of the fourth meridian.
- Road diversion in section 6 township 44 range 20 west of the fourth meridian.
- Road diversion in section 13 township 45 range 21 west of the fourth meridian.
- Road diversion in section 1 township 45 range 21 west of the fourth meridian.
- Road diversion in section 11 township 46 range 20 west of the fourth meridian.
- Road diversion in section 36 township 45 range 20 west of the fourth meridian.
- Road diversion in section 29 township 45 range 19 west of the fourth meridian.
- Road diversion in section 28 township 45 range 19 west of the fourth meridian.
- Road diversion in section 15 township 45 range 19 west of the fourth meridian.
- Road diversion in section 21 township 45 range 19 west of the fourth meridian.
- Road diversion in section 11 township 45 range 19 west of the fourth meridian.
- Road diversion in section 11 township 44 range 23 west of the fourth meridian.
- Road diversion in sections 25 and 36 township 40 range 27 west of the fourth meridian.
- Road diversion in section 29 township 37 range 27 west of the fourth meridian.
- Road diversion east of section 35 township 43 range 27 west of the fourth meridian.
- Road diversion to bridge over the Medicine river in section 7 township 38 range 2 west of the fifth meridian.

Change in road through the property of H. H. Gaetz, along the C. & E. Railway north of Red Deer.

Road diversion in section 10 township 39 range 24 west of the fourth meridian.

#### DRAINS,

Survey of drain in section 11 township 45 range 22 west of the fourth meridian.

Survey of drain sections 22 and 23 township 38 range 27 west of the fourth meridian.

Survey of right of way for drain to drain slough in sections 20 and 21, 28 and 29 township 39 range 24 west of the fourth meridian.

#### INSPECTIONS and Reports.

Report on road east of sections 27 and 34 township 41 range 25 west of the fourth meridian.

Report on road diversion in section 24 township 46 range 25 west of the fourth meridian

Report on road from Red Deer east.

Report on road from Bowden east.

Report on road in section 1 township 40 range 22 west of the fourth meridian.

Report on road east of section 19 township 44 range 25 west of the fourth meridian.

Report on road diversion east of section 22 township 44 range 23 west of the fourth meridian.

Report on continuation of survey along blind line north of sections 27, 28 and 29 township 43 range 25 west of the fourth meridian to the Calgary and Edmonton trail.

Road west from Blackfalds and Calgary and Edmonton trail in township 39 range 27 west of the fourth meridian.

Report on road diversion in sections 15 and 16 township 37 range 26 west of the fourth meridian

Report on old Hudson's Bay trail west to Rocky Mountain House.

Report on road in section 34 township 38 range 22 west of the fourth meridian.

Report on road to proposed ferry over Red Deer river at Tail creek section 34 townships 38 range 22 west of the fourth meridian.

Report on road from the north-east corner of section 34 township 46 range 21 west of the fourth meridian south to Battle river and necessary diversions to give access to Duhamel post office.

Report on road through sections 3, 10, 15 and 22 township 44 range 20 west of the fourth meridian.

Report re road westerly from Egans bridge south of the river across section 16 township 39 range 28 west of the fourth meridian.

Report re necessity of a road to give access to sections 28 and 34 township 38 range 27 west of the fourth meridian.

Report re road north of section 31 township 39 range 26 west of the fourth meridian.

Report re proposed road through townships 46 and 47 range 25 west of the fourth meridian.

Report re survey to connect with road running west to Blackfalds.

Report re road diversion north of section 7 township 44 range 25 west of the fourth meridian.

Report re road in townships 46 and 47 range 25 west of the fourth meridian.

Report re survey in sections 17 and 18 township 46 range 23 west of the fourth meridian.

Report re diversion from road allowance north of sections 31 and 32 township 46 range 22 west of the fourth meridian.

Report and partial survey of road north of sections 1, 2, 3 and 4 township 39 range 1 west of fifth meridian.

Report and partial survey of road north of sections 7, 8, 9, 10, 11 and 12 township 37 range 1 west of the fifth meridian.

Report re closing present trail across the Calgary and Edmonton railway track at Lacombe.

#### NEW Roads.

Road in townships 46 and 47 ranges 24 and 25 west of the fourth meridian.

Road from Bear lake to Pigeon lake.

Road north of sections 17 and 18 township 46 range 23 west of the fourth meridian,

Road west of Coal lake in sections 2 and 11 township 47 range 23 and sections 26 and 35 township 46 range 23 west of the fourth meridian.

Road along blind line north of section 13 township 44 range 19 and sections 18 and 19 township 44 range 18 west of the fourth meridian.

Road to Little Red Deer river in sections 19 and 30 township 35 range 1 west of the fifth meridian.

Road to Little Red Deer river in section 35 township 34 range 2 west of the fifth meridian.

Road across sections 26 and 27 township 34 range 2 west of the fifth meridian.

Completion of road from Penhold to Pine lake in sections 28 and 29 township 36 range 25 west of the fourth meridian.

Road south from Pine lake post office in section 22 township 36 range 25 west of the fourth meridian.

Road to Pine lake creek bridge in section 22 township 36 range 25 west of the fourth meridian.

Road south of Egan's bridge in section 15 township 39 range 28 west of the fourth meridian.

Road in sections 1, 2 and 6 township 42 ranges 25 and 26 west of the fourth meridian.

Road across sections 27, 28, 26, 35 and 36 township 43 range 22 west of the fourth meridian.

Road through township 39 ranges 23 and 24 west of the fourth meridian.

Road in section 19 township 36 range 1 west of the fifth meridian.

Road to Lacombe cemetery in section 31 township 40 range 26 west of the fourth meridian.

Road through section 29 township 46 range 21 west of the fourth meridian.

Completion of road from Burnt lake to Evatts post office, in township 38 range 2 west of the fifth meridian.

Road across section 22 township 44 range 21 west of the fourth meridian.

Road in sections 29 and 30 township 35 range 28 west of the fourth meridian.

Change in Calgary and Edmonton trail in sections 20, 28 and 29 township 41 range 26 west of the fourth meridian.

### *Public Works District of Calgary.*

CALGARY, *January 1st, 1905.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,*  
Regina, Assa.

SIR,— I have the honour to submit the following report of the work done by me in the Public Works District of Calgary during the year 1904.

Office work was somewhat behind at the first of the year, owing to my illness in October and November, 1903, and I was left alone to attend to it until the middle of March, when I secured a draughtsman for some time.

New instructions for urgent work were sent me as early as the 13th of February and some more in April and May. This together with some surveys and examinations left over from the previous season, gave me more than two months work in the field, which was done, the plans and reports being sent in before I organised the party for the regular season's work.

On the 1st of August I took the field with full party going south, making surveys east and west of the Macleod trail as far as Cayley, coming round by Pekisko, Tongue Creek, Lineham, Millarville and Pridis to Calgary, where I arrived on the 10th of October.

After two days spent at Calgary to attend to some urgent work near town, I left for the north, making surveys east and west of the Calgary and Edmonton trail as far as Olds, coming back by way of Beaver Dam

creek, Bradbourne, Cochrane and the Sarcee Indian Reserve. I arrived at Calgary on the 25th of November and discharged the party, keeping two men on hand to make a few examinations of proposed surveys and take levels for proposed drains.

Work for the season was completed on the 22nd of December. I am now preparing, with the help of a draughtsman, plans and reports of surveys which have not already been sent in.

#### SCHEDULE of surveys made during the year 1904.

##### OLD Trails.

Diversion of the Morleyville trail in sections 3, 10 and 11 township 26 range 4 west of the fifth meridian.

Diversion of the Morleyville trail in section 13 township 26 range 6 west of the fifth meridian.

Diversion of the Morleyville trail in section 17 township 26 range 5 west of the fifth meridian.

Diversion of the Morleyville trail in sections 11 and 12 township 26 range 4 west of the fifth meridian.

Diversion of the Macleod trail in sections 20 and 29 township 21 range 29 west of the fourth meridian.

Diversion of Patrick's trail in section 33 township 21 range 2 west of the fifth meridian.

Diversion of trail of Sarcee Indian Reserve.

##### NEW Roads.

Road on blind line north of sections 13, 14, 15, 16, 17 and 18 township 31 ranges 2 and 3 west of the fifth meridian.

Road through sections 17 and 20 township 20 range 29 west of the fourth meridian.

Road through sections 3, 4, 5, 7, 8 and 9 township 19 range 27 west of the fourth meridian.

Road to connect Pekisko with trail surveyed to High river township 18 range 1 west of the fifth meridian.

Road on west half of section 8 and diversion east of section 17 township 19 range 28 west of the fourth meridian.

Road on sections 6 and 8 township 20 range 2 west of the fifth meridian.

Road between the north and south forks of Sheep creek township 20 range 3 west of fifth meridian.

Road through sections 16, 21, 28, 33 and 34 township 21 range 3 west of the fifth meridian.

Road north of section 2 and part of section 1 township 22 range 1 west of the fifth meridian.

Re-survey of road on sections 16 and 21 township 24 range 1 west of the fifth meridian.

Road through sections 9, 10 and 11 township 27 range 1 west of the fifth meridian.

Road along blind line north of sections 18, 17, 16, 15, 14 and 13 township 30 range 2 west of the fifth meridian and north of section 18 township 30 range 1 west of the fifth meridian.

Road on sections 22, 27 and 32 township 32 range 2 west of the fifth meridian.

Road on sections 3 and 4 township 29 range 4 west of the fifth meridian.

Re-survey of Priddis road in section 22 township 22 range 3 west of the fifth meridian.

Re-survey of part of road from Cochrane steel bridge to Jumping Pound creek townships 25 and 26 range 4 west of the fifth meridian.

##### DIVERSIONS.

Diversion of road surveyed last year in section 5 township 25 range 1 west of the fifth meridian.

Diversion of road in section 11 township 24 range 2 west of the fifth meridian.

Diversion of road across the fifth meridian north of township 24.

Diversion east of section 27 township 25 range 4 west of the fifth meridian

Diversion north of section 9 township 19 range 29 west of the fourth meridian.

Diversion north of section 11 township 17 range 29 west of the fourth meridian.

Diversion east section 13 township 17 range 27 west of the fourth meridian.

Diversion south section 2 township 19 range 28 west of the fourth meridian.

Diversion north of section 23 township 17 range 29 west of the fourth meridian.

Diversion east section 14 township 19 range 1 west of the fifth meridian.

Diversion east section 16 township 19 range 1 west of the fifth meridian.

Diversion north section 11 township 19 range 1 west of the fifth meridian.

Diversion east of sections 20 and 30 township 16 range 28 west of the fourth meridian.

Diversion north section 25 township 29 range 29 west of the fourth meridian.

Diversion east section 12 township 31 range 2 west of the fifth meridian.

Diversion east section 4 township 32 range 2 west of the fifth meridian.

Diversion north section 28 township 32 range 1 west of the fifth meridian.

Diversion south section 5 township 27 range 4 west of the fifth meridian.

Diversion east section 21 township 26 range 5 west of the fifth meridian.

Diversion east section 5 township 24 range 4 west of the fifth meridian.

Completion of diversions sections 6 and 7 township 19 range 28 west of the fourth meridian.

#### DRAINS.

To drain slough in section 34 township 23 range 29 west of the fourth meridian; sketch and report.

To drain slough in sections 24 and 25 township 23 range 29 west of the fourth meridian; sketch and report.

To drain slough in sections 22 and 23 township 23 range 27 west of the fourth meridian; sketch and report.

To drain slough east section 17 township 19 range 28 west of the fourth meridian.

To drain sloughs north and west of section 10 township 20 range 2 west of the fifth meridian.

Taking levels to drain slough Blackfoot trail north section 12 township 24 range 29 west of the fourth meridian.

#### EXAMINATIONS and Inspections.

Examination and report about proposed road on section 9 township 24 range 29 west of the fourth meridian.

Examination and report about road north of township 24 ranges 28 and 29 west of the fourth meridian.

Examination and report about road as an outlet to section 25 township 23 range 1 west of the fifth meridian.

Examination and report about improvements required to roads in township 25 range 29 west of the fourth meridian.

Examination and report about Mission hill; repairs required.

Examination and report about Bow Marsh bridge.

Examination and report about trails on Sarcee Indian Reserve.

Examination and taking levels for grade on road to Jumping Pond creek, township 25 range 4 west of the fifth meridian.

Taking levels for grade on North Morleyville trail near Cochrane, township 26 range 4 west of the fifth meridian.

Examination, sketch and report about Knee Hill trail, townships 24 and 25 ranges 28 and 29 west of the fourth meridian.

Examination and report about road from north boundary of section 22 township 20 range 29 west of the fourth meridian, to intersect Macleod trail on Sheep creek.

Examination and report about proposed diversion east section 24 township 23 range 1 west of the fifth meridian.

Examination of proposed diversion east of sections 16 and 21 township 30 range 1 west of the fifth meridian.

Examination of proposed diversion east section 14 township 32 range 2 west of the fifth meridian.

Examination of proposed new road from North Morleyville trail, north through townships 25 and 26 range 3 west of the fifth meridian.

Examination of proposed change of new road in section 20 township 25 range 4 west of the fifth meridian.

Examination of roads east of sections 5 and 8, and north of sections 9, 10 and 11, establishing north east corner of section 11 township 24 range 4 west of the fifth meridian.

Examination in sections 33 and 34 and adjoining part of Sarcee Indian Reserve, about road across and bridge site over Fish creek; levels for grade and cross section of creek.

Examination of road north section 36 township 24 range 1 west of the fifth meridian, for ditch and improvements.

Examination of road east sections 4, 9, 16 and 21 township 23 range 29 west of the fourth meridian; draining and improvements.

Examination of road east sections 1 and 12 township 23 range 29 west of the fourth meridian; levels taken for drain, general improvements.

Examination of Nose creek trail, bush trail in sections 30 and 31 township 25, section 6 township 26 range 1 west of the fifth meridian, and section 1 township 26 range 2 west of the fifth meridian; for required changes and improvements.

Examination and report of road near Kennedy's bridge east section 17 township 26 range 1 west of the fifth meridian.

Examination of road from Cochrane south to Elbow river; report and estimate cost of improvements required.

Cross section of Elbow river at new site Weasel Head bridge, Sarcee Indian Reserve.

Examination of road north of section 20 and centre of section 23 township 32 range 2 west of the fifth meridian (for road overseer).

Building mounds of last year's survey section 2 township 30 range 3 west of the fifth meridian.

Remounding part of Macleod trail township 21 range 1 west of the fifth meridian.

The distance I have travelled this season is much in excess of that of the two previous; the number of surveys and examinations was large, as the instructions for the different surveys required in each part of the district could not, in many instances, be issued, at the same dates it necessitated my going twice over part of the district.

Travelling was made much easier this year; the roads were in general in fairly good condition after the first of July owing to the dryness of the season, and also on account of the large amount of improvement work done by your department on the main roads throughout the district.

Your obedient servant,

ALBERT CHAS. TALBOT,  
*District Engineer and Surveyor.*

*Public Works District of South Alberta.*

MACLEOD, December 31st, 1904.

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
Regina, N.W.T.

SIR,— I have the honour to submit my annual report, showing the work done in the Macleod Public Works District during the year 1904.

Between 1st January and 31st May I was generally occupied in preparing returns of surveys made during the season of 1903, but several special trips were made to outside points during these months to make inspections and to obtain cross-sections for bridges.

On the 1st of June I organised a party and prepared to take the field. The season's work was taken up in the following order:—Stand Off, Cardston, Lethbridge, Macleod, Cowley, Blairmore, Cowley, Livingstone, Mountain Mill, Pincher Creek, Drywood river, Mountain View, Cardston, Taylorville, Cardston and Macleod,

The season, as a whole, was very favourable for surveying operations and a few days were lost on account of bad weather.

Separate reports accompanied by sketches have been transmitted to the department on the completion of each survey made.

None.

OLD Trails.

NEW Roads.

New road from Stand Off in sw  $\frac{1}{4}$  section 21 township 6 range 25 west of the fourth meridian, south-west through townships 5 and 6 ranges 25 and 26 west of the fourth meridian.

New road from Cardston N.E.  $\frac{1}{4}$  section 9 township 3 range 25 west of the fourth meridian to St. Mary river bridge, s.w.  $\frac{1}{4}$  section 23 township 3 range 25 west of the fourth meridian across Blood Indian Reserve.

New road from bridge over Old Man river, near Macleod section 10 township 9 range 26 west of the fourth meridian, through sections 10, 15, east boundary 15, 23, east boundary 23 all in township 9 range 26 west of the fourth meridian.

New road from end of road (surveyed by F. W. Wilkins, D.L.S., from Pincher Creek to the Crow's Nest Pass) at the east boundary of section 12 township 7 range 3 west of the fifth meridian to a connection with road (surveyed by F. J. Robinson, D.L.S., from near Cowley to the Crow's Nest Pass) in the s.w.  $\frac{1}{4}$  section 13 township 7 range 3 west of the fifth meridian and a connection from above mentioned road at north boundary of section 12 township 7 range 3 west of the fifth meridian giving outlet to Messrs. Eddy and Bradshaw.

New road connecting surveyed roads *via* Government bridge on Todd creek in section 31 township 7 range 1 west of the fifth meridian, through sections 31 and 32 township 7 range 1 west of the fifth meridian.

New road over old ford of Middle Fork of Old Man river from surveyed road in the N.E.  $\frac{1}{4}$  section 29 township 7 range 1 west of the fifth meridian, through sections 29, 32, 33 and 28 township 7 range 1 west of the fifth meridian to road allowance on north boundary section 21 township 7 range 1 west of the fifth meridian.

New road from north boundary section 20 township 9 range 2 west of the fifth meridian near the north-east corner of the section through sections 21 and 22 and N.E.  $\frac{1}{4}$  of 15, all in township 9 range 2 west of the fifth meridian, to give outlet to Messrs M. S. and T. J. Wilson.

New road in section 4 township 7 range 29 west of the fourth meridian connecting with Macleod-Pincher Creek road to give outlet to Fred C. Austin, s.e.  $\frac{1}{4}$  section 4 township 7 range 29 west of the fourth meridian.

New road between north and south halves of section 25 township 5 range 30 west of the fourth meridian, and between north and south halves of section 30 township 5 range 29 west of the fourth meridian to give outlet to travellers from the east to the timber.

New road from coal mine in N.E.  $\frac{1}{4}$  section 8 township 5 range 30 west of the fourth meridian, through sections 12, 13 and 24 township 5 range 1 west of the fifth meridian, to connection with surveyed road from Pincher Creek to the mountains in s.w.  $\frac{1}{4}$  section 24 township 5 range 1 west of the fifth meridian.

New road to the timber from the north boundary of the N.E.  $\frac{1}{4}$  section 22 through sections 22, 21, 16 and 17 to the north boundary section 8, all in township 5 range 1 west of the fifth meridian.

New road between the north and south halves of section 24 township 3 range 25 west of the fourth meridian, to give more direct route to Cardston for settlers toward the east.

New road and road diversions between the south  $\frac{1}{2}$  of section 2 township 1 range 25 west of the fourth meridian, on the International boundary line, and the range line road allowance east of range 25 west of the fourth meridian, through sections 2, 11, 12, 13 township 1 range 25 west of the fourth meridian, to give thoroughfare for immigration from the United States to Kimball, Cardston and other points toward the north.

#### ROAD Diversions.

Road diversion from old Macleod-Lethbridge surveyed road, to connect with new bridge across Belly river near Lethbridge, N.W.  $\frac{1}{4}$  section 1 township 9 range 22 west of the fourth meridian.

Road diversions from surveyed road, to connect with bridges, on road between Frank and Blairmore, in sections 35 and 36 township 7 range 4 west of the fifth meridian,

Road diversions in N.W.  $\frac{1}{4}$  section 19 township 8 range 1 and S.E.  $\frac{1}{4}$  section 25 township 8 range 2 west of the fifth meridian, to avoid a hill and marshy ground.

Road diversion in N.E.  $\frac{1}{4}$  section 10 township 7 range 1 west of the fifth meridian, to secure better crossing of coulee.

Road diversions in N.E.  $\frac{1}{4}$  section 12 township 6 range 2 west of the fifth meridian, and S.W.  $\frac{1}{4}$  section 18 township 6 range 1 west of the fifth meridian, and N.W.  $\frac{1}{4}$  section 7 township 6 range 1 west of the fifth meridian, to obtain grade on hill and give approach to bridge site over Mill creek near north east corner section 12 township 6 range 2 west of the fifth meridian, connection on east end with surveyed road between Pincher Creek and Mountain Mill.

Road diversion in S.W.  $\frac{1}{4}$  section 27 township 5 range 30 west of the fourth meridian, to avoid marsh.

Road diversion in S.W.  $\frac{1}{4}$  section 7 township 5 range 29 west of the fourth meridian, to afford better crossing of coulee.

Road diversion in N.E.  $\frac{1}{4}$  section 23, S.E.  $\frac{1}{4}$  section 26, S.W.  $\frac{1}{4}$  section 25, all in township 5 range 1 west of the fifth meridian, to avoid marshy ground, connection on eastern end with surveyed road from Pincher Creek to the mountains.

Road diversion from surveyed road, Pincher Creek to the mountains in sections 25, 36 township 5 range 1 west of the fifth meridian, to bridge site over Pincher Creek in N.W.  $\frac{1}{4}$  section 25 township 5 range 1 west of the fifth meridian.

Road diversion in sections 17, 18 and 7, all in township 4 range 28 west of the fourth meridian, connecting at the west end with surveyed road to bridge across Drywood river in N.E.  $\frac{1}{4}$  section 12 township 4 range 29 west of the fourth meridian, made to avoid Drywood river and its cut banks.

Road diversion from surveyed trail in N.W.  $\frac{1}{4}$  section 31 township 2 range 25 west of the fourth meridian and N.E.  $\frac{1}{4}$  section 36 township 2 range 26 west of the fourth meridian, to connect with bridge over Lee's creek in N.E.  $\frac{1}{4}$  section 36 township 2 range 26 west of the fourth meridian.

Road diversion in N.W.  $\frac{1}{4}$  section 24 township 2 range 26 west of the fourth meridian to give outlet to Messrs Barnes and White.

Road diversion in sections 5, 6 township 1 range 25 west of the fourth meridian to obtain better grade on hill.

#### RE-SURVEYS.

Re-survey to obtain better grades of surveyed road leading to bridge over Middle Fork of Old Man river in N.E.  $\frac{1}{4}$  section 21 township 7 range 1 west of the fifth meridian.

Re-survey to obtain better grades of surveyed road through sections 4, 5, 8 all in township 8 range 2 west of the fifth meridian near Gillingham.

#### DRAINAGE Surveys.

Survey of government drain in S.W.  $\frac{1}{4}$  section 4 township 4 range 29 west of the fourth meridian and N.W.  $\frac{1}{4}$  section 33 township 3 range 29 west of the fourth meridian, to drain marshy portion of road allowances used in connection with main road between Pincher Creek and the Oil fields.

#### BRIDGE and Ferry sites.

Location of ferry site near ford across Old Man river at its junction with Pincher creek in S.E.  $\frac{1}{4}$  section 16 township 7 range 29 west of the fourth meridian.

Location of bridge site on Pincher creek in N.W.  $\frac{1}{4}$  section 25 township 5 range 1 west of the fifth meridian.

Location of bridge site on Pincher creek in N.E.  $\frac{1}{4}$  section 13 township 5 range 1 west of the fifth meridian.

Location of bridge site on Mill creek near north-east corner section 12 township 6 range 2 west of the fifth meridian.

#### IRRIGATION Inspections.

Inspection of irrigation scheme of W. R. Vaughn of Taylorville sections 3, 4 and 9 all in township 1 range 24 west of the fourth meridian.

Inspection of irrigation scheme of John N. West of Mountain View sections 3 and 4 township 2 range 28 west of the fourth meridian.

#### EXAMINATIONS and Reports.

Examination and report re abandonment of certain portions of surveyed roads in sections 26 and 35 township 5 range 1 west of the fifth meridian and



section 2 township 6 range 1 west of the fifth meridian, also survey of connection between two of the above named roads in s.e.  $\frac{1}{4}$  section 25 township 5 range 1 west of the fifth meridian.

Examination of road diversion near Bellevue in section 28 township 7 range 3 west of the fifth meridian, as laid out by J. E. Woods, D.L.S.

Examination and report on proposed road from Blairmore to Lille collieries around west side of Bluff mountain.

Examination and report on proposed road between east and west halves of sections 3 and 10 township 4 range 29 west of the fourth meridian.

Examination and report on surveyed road through N.W.  $\frac{1}{4}$  section 13 township 2 range 27 west of the fourth meridian.

Report on proposed acquisition by the department of road between Frank and Lille collieries.

Examination and report on proposed road across the slide at Frank in lieu of old road which is at present covered with debris.

Report on proposed road between Bellevue and East Slide siding in N.E.  $\frac{1}{4}$  section 20 township 7 range 3 west of the fifth meridian.

Plans and field notes for the above surveys are now in the course of preparation.

Your obedient servant,

A. W. PONTON,

*District Engineer and Surveyor.*

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*West Assiniboia Public Works District.*

MEDICINE HAT, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works.*

Regina, Assa.

SIR,—I have the honour to submit the following report on the work done in the district of West Assiniboia during the past season.

The early part of the year was occupied in preparing returns of surveys made during 1903. These being completed I organised my party and commenced field work on the 20th of May.

I began work in the western part of my district working gradually eastwards during the first part of the season and then westward again, finishing the season in the vicinity of Medicine Hat.

As in 1902 the greater part of the season's work consisted in the survey of old trails of considerable length or of roads to take the place of the old trails where changes therein seemed advisable. In addition to this a number of road allowances were examined and also old surveyed trails and the necessity for surveys reported on; bridge sites were located and diversions made to road allowances and surveyed trails.

A detailed report was sent in to your department on the completion of each piece of work.

The weather was exceptionally good during the greater part of the season and very little time was lost, a few days in June owing to rain and a few days in September through snow.

Field work was completed on November 30th, no surveys being left outstanding.

During the month of December I have been occupied preparing returns of the season's work, and one survey for which instructions were received after my party was disbanded, was examined and reported on.

I give below a list of surveys made and other work done.

## LIST OF SURVEYS.

Diversion from surveyed trail from Medicine Hat to Dunmore in section 28 township 12 range 5 west of the fourth meridian.

Diversion from surveyed trail from Maple Creek to the Gap in sections 21 and 29 township 29 range 26 west of the third meridian.

Diversion from road allowance section 8 township 10 range 25 west of the third meridian.

Diversion from road allowance section 22 township 12 range 8 west of the fourth meridian.

Diversion from surveyed trail from Medicine Hat to Josephsburg section 9 township 12 range 5 west of the fourth meridian.

Survey of old trail from Medicine Hat to Seven Persons tank.

Survey of old trail from Medicine Hat to Eagle Butte, from section 21 township 11 range 5 west of the fourth meridian, to section 30 township 8 range 4 west of the fourth meridian.

Survey of continuation of trail from Maple Creek to the Gap, from section 26 township 8 range 26 west of the third meridian, to section 25 township 7 range 26 west of the third meridian.

Survey of old trail from Maple Creek to east end from section 19 township 10 range 24 west of the third meridian through township 9 range 24 west of the third meridian, township 9 range 23 west of the third meridian, township 8 range 23 west of the third meridian, township 7 range 23 west of the third meridian, township 7 range 22 west of the third meridian and township 7 range 21 west of the third meridian to section 31 township 6 range 21 west of the third meridian.

Survey of old trail south from section 33 township 9 range 27 west of the third meridian to section 6 township 8 range 27 west of the third meridian.

Survey of old trail south from section 15 township 12 range 6 west of the fourth meridian to section 2 township 12 range 6 west of the fourth meridian.

Survey of road across sections 20 and 29 township 11 range 26 west of the third meridian to give access to bridge over Gap creek.

Survey of road east from Maple creek from section 8 township 11 range 24 west of the third meridian to section 12 township 11 range 21 west of the third meridian.

Survey of road north-west from Medicine Hat from section 34 township 12 range 5 west of the fourth meridian to section 15 township 13 range 5 west of the fourth meridian.

## EXAMINATIONS.

Examination of road allowance north of section 31 township 12 range 5 west of the fourth meridian.

Report on proposed road through section 4 township 13 range 5 west of the fourth meridian.

Examination and report on proposed road in N.E.  $\frac{1}{4}$  section 30 township 12 range 5 west of the fourth meridian.

Examination and report on proposed road in section 18 township 10 range 5 west of the fourth meridian.

Examination and report on proposed change in road from Medicine Hat to cemetery section 31 township 12 range 5 west of the fourth meridian.

Examination and report on proposed change in trail from Irvine to Josephsburg in section 31 township 11 range 2 west of the fourth meridian.

Examination and report re proposed road in section 27 township 13 range 26 west of the third meridian.

Examination and report on road allowance east of section 28 township 11 range 26 west of the third meridian.

Examination and report on bridge site at Irvine and road to give access thereto section 36 township 11 range 3 west of the fourth meridian.

Examination and report on part of old Fort Walsh trail in section 2 township 8 range 29 west of third meridian and section 35 township 7 range 29 west of the third meridian.

Examination and report on part of surveyed trail in section 36 township 12 range 6 west of the fourth meridian.

Examination and report on proposed road across section 34 township 9 range 25 west of the third meridian.

Examination and report on old trail from Medicine Hat to Josephsburg from section 29 township 12 range 5 west of the fourth meridian to section 30 township 11 range 4 west of the fourth meridian.

Examination and report on trails from Moose Jaw to Willow Bunch and Wood Mountain.

Cross sections for bridges were taken wherever streams were crossed in the course of surveys.

Your obedient servant,  
L. C. CHARLESWORTH,  
*District Engineer and Surveyor.*

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*Public Works District of Centre Assiniboia.*

REGINA, December 31st, 1904.

JOHN STOCKS, Esq.,  
*Deputy Commissioner of Public Works,*  
Regina, N.W.T.

SIR,—I have the honour to submit the following report of the work performed by this office in the public works district of Centre Assiniboia and on government drain No. 60, near the city of Prince Albert and No. 141 near the town of Duck Lake, during the season 1904.

I was appointed district surveyor and engineer by Order-in-Council dated the 16th of May last.

During the months of May, June, July, August and September my time was mostly devoted to government drainage works. The balance of the season I was engaged on surveys of new roads, road diversions, etc., in the district of Centre Assiniboia and owing to the fine weather was enabled to continue field work up to the 23rd of December.

As detailed reports of all surveys and inspections performed have been given, a general summary in the order of instructions received will be found attached in schedule form. The work is divided into six classes, viz., drains, cross sections for bridges, new roads, road diversions, changes in surveyed roads and dams.

Your obedient servant,  
T. H. WIGGINS,  
*District Surveyor and Engineer.*

DRAINS.

Government drain No. 96 for the drainage of the large marshes lying to the north and east of Yellowgrass.

Government drain No. 141 for lowering the waters of Duck Lake by a drain through the Kamasis or Beardy Indian reserve to improve roads and lands.

Government drain No. 60 for improving MacFarlane or Red Deer creek by dredging or ditching through township 48 ranges 25, 26, 27 and 28 west of the second meridian.

A series of levels for proposed drain to drain a slough on the road allowance north of sections 33 and 34 township 17 and east of section 33 township 17 and section 4 township 18 range 27 west of the second meridian and lands adjoining.

CROSS SECTIONS FOR BRIDGES.

Across Long-creek east of section 10 township 9 range 15 west of the second meridian.

Across Long creek north of section 20 township 8 range 14 west of the second meridian.

Across Wascana creek north of section 19 township 16 range 18 west of the second meridian.

Across branch of Wascana creek east of section 31 township 16 range 18 west of the second meridian.

Across Wascana creek in section 36 township 17 range 21 west of the second meridian.

Across Moose Jaw creek in section 29 township 16 range 26 west of the second meridian.

Across Moose Jaw creek in section 31 township 18 range 24 west of the second meridian.

Across Moose Jaw creek in s.e.  $\frac{1}{4}$  section 9 township 16 range 26 west of the second meridian.

Across gully east of the village of Drinkwater in n.e.  $\frac{1}{4}$  section 29 township 15 range 23 west of the second meridian.

Across Beaver creek on road allowance north of section 31 township 30 range 4 west of the third meridian.

Across coulee north of section 21 township 17 range 26 west of the second meridian.

Across Rough Bark creek north of section 36 township 9 range 18 west of the second meridian.

Across Moose Jaw creek in section 29 township 16 range 26 west of the second meridian.

Road across Black Strap coulee through section 31 township 32 range 3 west of the third meridian, section 6 township 33 range 3 west of the third meridian and section 36 township 32 range 4 west of the third meridian.

Road through sections 36 and 31 township 30 range 4 west of the third meridian and sections 5 and 6 township 31 range 4 west of the third meridian.

Road through sections 26 and 35 township 13 range 22 west of the second meridian to bridge site over Moose Jaw creek.

Road across the Qu'Appelle valley through sections 30, 31 and 32 township 18 range 24 west of the second meridian and sections 4, 10, 14, 15 and 23 township 19 range 24 west of the second meridian.

Road through east  $\frac{1}{2}$  section 18 township 9 range 16 west of the second meridian to cross Yellowgrass marsh.

Road through section 35 township 18 range 25 west of the second meridian, section 6 township 19 range 24 west of the second meridian and section 1 township 19 range 25 west of the second meridian, across the Qu'Appelle valley.

Road east and west of the village of Drinkwater through the n.e.  $\frac{1}{4}$  section 29 and the s.w.  $\frac{1}{4}$  section 32 township 15 range 23 west of the second meridian.

Road through sections 28, 29 and 33 township 19 range 21 west of the second meridian.

Road through section 5 township 10 range 17 west of the second meridian.

#### ROAD Diversions.

Diversion in s.w.  $\frac{1}{4}$  section 13 township 20 range 21 west of the second meridian.

Diversion to bridge site in s.e.  $\frac{1}{4}$  section 9 township 16 range 26 west of the second meridian.

Diversion to avoid crossing Moose Jaw creek in n.w.  $\frac{1}{4}$  section 10 township 16 range 26 west of the second meridian.

Diversion in section 29 township 18 range 21 west of the second meridian.

Diversion in east  $\frac{1}{2}$  section 36 township 17 range 21 west of the second meridian.

Diversion in n.e.  $\frac{1}{4}$  section 36 township 9 range 18 west of the second meridian.

Diversion in section 19 township 16 range 18 west of the second meridian.

Diversion in section 19 township 14 range 22 west of the second meridian.

Diversion in section 29 township 14 range 22 west of the second meridian.

Diversion in section 35 township 11 range 19 west of the second meridian.

Diversion in section 29 township 16 range 26 west of the second meridian.

Diversion in section 11 township 18 range 21 west of the second meridian to bridge site.

#### CHANGES in Surveyed Road.

Road through south  $\frac{1}{2}$  section 9 township 33 range 4 west of the third meridian.

Road through section 20 township 8 range 14 west of the second meridian.

Road through s.w.  $\frac{1}{4}$  section 18 township 20 range 20 west of the second meridian.

Road in section 6 township 17 range 25 west of the second meridian and section 1 township 17 range 26 west of the second meridian.

Road in section 33 township 19 range 21 west of the second meridian, (inspection and report no change advisable).

## DAMS.

Report and sketch plan of dam in S.E.  $\frac{1}{4}$  section 11 township 15 range 26 west of the second meridian and lands affected in reference to road thereto.

Cross sections and report of proposed dam at the outlet of Long lake for relief of hay meadows in valley below.

In addition to the foregoing I have examined and reported upon the improvement of the road allowances across the alkali beds north and east of Caron station, and have furnished the department with several profiles of roads where heavy grades are met with in reference to their improvement. I also made report of a suitable place for crossing of the Q.L.L. & S.R. & S. Co. at Hanley.

*Qu'Appelle Public Works District.*

SOUTH QU'APPELLE, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,*

Regina, Assa.

SIR,—I beg to submit the following report on surveys and inspections made in Qu'Appelle Public Works District during the past season.

The heavy snowfall of last winter resulted in unusually high water when spring opened, the Qu'Appelle lakes and river reaching a higher level than at any previous time within the recollection of the oldest settler. In consequence of this many bridges were seriously damaged.

High water prevailed generally throughout the district and a large number of diversion surveys, to avoid ponds and sloughs on the road allowances were rendered necessary in order to provide roads which would be available at all seasons; before making these surveys examinations were generally made to ascertain the feasibility of drainage but in many cases it was found that the cost of such work would be altogether out of proportion to the cost of the land required for right of way to avoid these obstructions and where usually a high and dry roadway could be constructed at small expense. The appended schedules give the location of the various surveys and other particulars relating to them.

## DRAINAGE.

The schedule under this heading gives locations of the drains laid cut for construction with other particulars also a list of examinations made to determine the feasibility of drainage in certain cases.

The most important drain staked out and constructed during the past season is one connecting Leech lake with the Little White Sand river in township 24 range 4 west of the second meridian.

The total length of excavation one mile, bottom width six feet and side slope  $1\frac{1}{2}$  to 1. The excavation was completed to Leech lake in November last when the water commenced flowing out. The lake being very shallow it is necessary to extend the excavation into its bed for some distance in order to obtain a depth of  $2\frac{1}{2}$  feet of water, which is the estimated reduction in level that will be effected by the construction of this drain.

The work of excavating in the lake bed was found rather difficult but by the use of rubber boots the men were able to extend the excavation until a depth of 18 inches of water was reached and after the ice had set it was intended to complete the work.

Leech lake is connected with Crescent lake to the south and Rousays lake to the north, the latter being also connected with Pebble lake by means of a drain laid out by me in 1899.

The water in all these lakes appears to stand at the same level at the present time, there being no perceptible current in the connecting channels so that in the course of a year or two the drain which is now in operation should effect a general lowering of the water level about  $2\frac{1}{2}$  feet and thereby reclaim a vast area of fine hay meadow which for several years has been flooded.

It may be mentioned that a few years ago all these lakes were nearly dry and to bring water into them a drain was laid out and constructed under the supervision of Mr. Child, C.E., in 1898, to divert water from Insinger creek to Rousays lake from that source, but owing to the unusually wet seasons of recent years more water had been brought down than is required and with your permission I have had this water shut off for the present by the construction of a small earth dam, so that all the water from Insinger creek will now follow its old channel.

#### SCHEDULE of New Roads Surveyed.

Along division line between east and west halves of sections 2 and 11 township 19a range 10 west of the second meridian.

In sections 22, 27 and 28 township 18 range 9 west of the second meridian being right of way for graded road on north side of Qu'Appelle valley known as McLean hill.

Along south side of C.P.R. between Grenfell and Summerberry in sections 7, 12, 10 and 11 township 17 ranges 7 and 8 west of the second meridian.

Along centre line between east and west halves of section 3 township 16 range 7 west of the second meridian leading to Skilliter's crossing of Pipestone creek.

Along north boundary of sections 17 and 18 township 16 range 6 west of the second meridian leading towards Grenfell.

In sections 16 and 21 township 28 range 4 west of the second meridian leading to bridge site on Little White Sand river.

In sections 6, 7 and 8 township 19a range 10 and in s.w.  $\frac{1}{4}$  section 4 township 19 range 10 west of the second meridian right of way for graded road known as Campbell hill on north side of Qu'Appelle valley.

In s.e.  $\frac{1}{4}$  section 26 township 20 range 11 west of the second meridian leading to Abernethy.

In sections 19 and 30 township 22 range 14 west of the second meridian being across the valley of Jumping creek.

Along north side of sections 16 and 17 township 16 range 7 west of the second meridian leading from Skilliter's crossing to Grenfell.

In s.e.  $\frac{1}{4}$  section 26 township 26 range 5 west of the second meridian along north side of right of way of Manitoba and N.W. railway leading to Orcadia.

In section 14 township 28 range 16 west of the second meridian being right of way for graded road leading to Kutawa.

In section 31 township 12 range 11 west of the second meridian along south limit leading to Tiran.

Along east limit of west  $\frac{1}{2}$  of section 10 township 11 range 11 leading to Filmore.

From Proctor's bridge to White Sand river between sections 1 and 2 township 25 range 5 west of the second meridian to east limit of section 13 township 25 range 5 west of the second meridian connecting with ford on White Sand river in section 17 township 28 range 4 west of the second meridian.

#### SCHEDULE of Road Allowance Diversions.

From Qu'Appelle and Wood Mountain trail in sections 28 and 33 township 17 range 15 west of the second meridian and in sections 7 and 17 township 18 range 14 west of the second meridian to avoid ponds and sloughs.

In section 22 township 16 range 16 west of the second meridian right of way across dam near Ezra Shaw's.

In section 33 township 17 range 16 west of the second meridian to avoid marsh on road allowance to north.

In sections 28 and 33 township 17 range 16 west of the second meridian to avoid ponds on road allowance to east of sections 29 and 32.

In sections 4 and 5 township 18 range 16 west of the second meridian to avoid marshes on road allowance between these sections.

In section 6 township 18 range 16 west of the second meridian to avoid pond on road allowance to east of section 1 range 17.

In section 31 township 17 range 16 west of the second meridian to avoid marsh on road allowance to the north.

In section 21 township 17 range 16 west of the second meridian to avoid marsh on road allowance to the north.

In section 24 township 19 range 16 west of the second meridian right of way for graded road to avoid marsh.

In section 10 township 20 range 16 west of the second meridian to avoid marsh on road allowance to east.

In section 7 township 16 range 14 west of the second meridian and in sections 12, 19 and 25 township 16 range 15 west of the second meridian to avoid ponds and marshes on road allowances between ranges 14 and 15.

In section 2 township 18 range 14 west of the second meridian and section 35 township 17 range 14 west of the second meridian to avoid ponds on road allowances between these sections.

In section 7 township 18 range 14 west of the second meridian to avoid marshes on road allowances to the east.

In section 19 township 19 range 14 west of the second meridian to avoid creek on road allowance to east of section 24 range 15.

In west  $\frac{1}{2}$  section 9 township 19a range 10 west of the second meridian to avoid pond on road allowance to north.

In section 1 township 19 range 10 west of the second meridian to avoid lake on road allowance to east of section 2.

In section 24 township 20 range 12 west of the second meridian to avoid marsh on road allowance to east.

In section 5 township 20 range 10 west of the second meridian to avoid marsh on road allowance to north of section 32 township 19.

In section 15 township 18 range 9 west of the second meridian leading to bridge over Qu'Appelle river at Pipher's.

In section 33 township 20 range 9 west of the second meridian to avoid ravine on road allowance to east of section 32.

In s.e.  $\frac{1}{4}$  section 5 township 21 range 9 west of the second meridian to provide suitable crossing of valley of Pheasant creek.

In s.e.  $\frac{1}{4}$  section 21 township 20 range 8 west of the second meridian to avoid pond on road allowance to east.

In section 9 township 20 range 8 west of the second meridian to avoid pond and marsh on road allowance to north.

In sections 13 and 14 township 20 range 8 west of the second meridian to avoid a marsh on road allowance between these sections.

In sections 2, 11, 15, 22 and 26 township 20 range 8 west of the second meridian to avoid ponds and marshes on road leading to Neudorf.

In section 4 township 20 range 8 west of the second meridian to avoid pond on road allowance to north.

In section 3 township 20 range 8 west of the second meridian to avoid pond on road allowance to north.

In n.e.  $\frac{1}{4}$  section 3 and s.w.  $\frac{1}{4}$  section 10 township 20 range 8 west of the second meridian to avoid ponds and marshes on road allowance between these sections.

In sections 14, 15 and 23 township 19 range 8 west of the second meridian to avoid ponds and marshes on road allowance between sections 14 and 15 and east of 22.

In sections 14 and 23 township 17 range 8 west of the second meridian to avoid hay marsh on road allowance to east of sections 22 and 15.

In section 36 township 14 range 8 west of the second meridian to avoid marshes on road allowances to north and east.

In section 24 township 16 range 7 west of the second meridian to avoid marsh on road allowance to east.

In section 15 township 16 range 7 west of the second meridian to avoid marsh on road allowance to east of section 16.

In section 27 township 16 range 7 west of the second meridian to avoid marsh on road allowance to north of section 22.

In n.e.  $\frac{1}{4}$  section 20 township 16 range 7 west of the second meridian to avoid pond on road allowance to the east.

In sections 5, 6, 7, 18 and 19 township 5 range 7 west of the second meridian to avoid ponds and marshes on road leading to Grenfell.

In sections 19 and 31 township 14 range 7 west of the second meridian to avoid marshes on road allowances to east of sections 24 and 36 township 14 range 8 west of the second meridian.

In section 5 township 17 range 16 west of the second meridian to avoid marsh on road allowance to north of section 32 township 16 range 16 west of the second meridian.

In section 30 township 16 range 6 west of the second meridian to avoid marsh on road allowance to east of section 25 township 16 range 7 west of the second meridian.

In section 31 township 16 range 6 west of the second meridian to avoid pond on road allowance to north.

In sections 15, 21, 22 and 27 township 16 range 6 west of the second meridian to avoid lake and pond on road leading to Oakshela.

In sections 34 and 36 township 25 range 6 west of the second meridian to avoid marshes on road allowance to north.

In s.e.  $\frac{1}{4}$  section 4 township 26 range 5 west of the second meridian to avoid marsh on road allowance to north of section 33 township 25 range 5 west of the second meridian.

In section 23 township 16 range 5 west of the second meridian to avoid muskeg on road allowance to north.

In section 15 township 16 range 5 west of the second meridian to avoid marsh on road allowance to east of section 16.

In section 27 township 25 range 4 west of the second meridian to avoid marsh on road allowance to north.

In sections 28 and 29 township 25 range 4 west of the second meridian to avoid marshes on road allowance between these sections.

In section 33 township 25 range 4 west of the second meridian to avoid pond on road allowance to north of section 28.

#### SCHEDULE of Re-surveys.

In west  $\frac{1}{2}$  section 8 township 19 range 7 west of the second meridian to change location of valley road at Johann Armbruster's.

In section 32 township 15 range 7 west of the second meridian to secure right of way for road as graded.

In N.E.  $\frac{1}{4}$  section 24 township 15 range 6 west of the second meridian to re-mark survey of road leading to bridge over Pipestone creek at John Taylor's.

In section 25 township 19 range 7 west of the second meridian in Qu'Appelle valley at Simpkinson's.

In N.E.  $\frac{1}{4}$  section 8 township 17 range 7 west of the second meridian for right of way to Grenfell dam.

#### SCHEDULE of Reports on Examinations of Roads.

Regarding change of location of Qu'Appelle valley road at Johann Armbruster's.

Regarding surveyed road in s.w.  $\frac{1}{4}$  section 17 township 16 range 7 west of the second meridian.

Regarding proposed survey of Fort Pelly-Qu'Appelle trail.

Regarding proposed survey to connect Yorkton-Touchwood road on north boundary of section 23 township 25 range 6 west of the second meridian.

Regarding proposed survey from Yorkton-Touchwood road north of section 31 township 25 range 5 west of the second meridian to Insinger creek.

Regarding surveyed road in section 11 township 26 range 4 west of the second meridian.

Regarding proposed change of location of surveyed road in N.E.  $\frac{1}{4}$  section 16 township 25 range 4 west of the second meridian. An examination for bridge site over Qu'Appelle river at Fort Qu'Appelle with cross section of channel.

Regarding survey of diversion across C.P.R. track at McLean station in township 18 range 14 west of the second meridian.

#### SCHEDULES of Drains laid out, etc.

Location and right-of-way survey for drain in section 23 township 16 range 5 west of the second meridian to drain muskeg in section 26 into Weed lake so as to permit construction of road in section 23.

Location drain in section 9 township 17 range 10 west of the second meridian to permit construction of road on road allowance to north of section 4.

Location of drain in section 2 township 20 range 8 west of the second meridian to permit construction of road allowance to east of section 3.

Location and right of way survey for drain in sections 23 and 26 township 24 range 4 west of the second meridian for drainage of Leech lake into the Little White Sand river.

Examination and report on proposed drainage in section 26 township 20 range 11 west of the second meridian.

Examination and report on proposed drainage in section 24 township 20 range 12 west of the second meridian.

#### SCHEDULE of Reservoirs surveyed.

Grenfell reservoir in N.E.  $\frac{1}{4}$  section 8 township 17 range 7 west of the second meridian.

In s.w.  $\frac{1}{4}$  section 11 township 19 range 11 west of the second meridian.

In north  $\frac{1}{2}$  section 29 township 19 range 14 west of the second meridian.



In consequence of recent railway extensions through the district the outlying portions are becoming rapidly settled and to provide satisfactory roads a large number of diversion and drainage surveys will be required, particulars as to more important of these will be sent you at an early date.

Your obedient servant,

WM. T. THOMPSON,  
*District Engineer and Surveyor.*

*Public Works District of East Assiniboia.*

MOOSOMIN, December 31st, 1904.

JOHN STOCKS, Esq.,

*Deputy Commissioner of Public Works,*  
Regina, N.W.T.

SIR,—I beg to submit the following report of work completed in the Public Works District of East Assiniboia during the season of 1904.

My appointment to the surveys branch was made the 1st of April of this year, and during that month I was in the department at Regina. Owing to the late spring and poor roads it was the middle of June before my party took the field, but from that time until the middle of November only a few days were lost on account of rain. My time has been taken up with diversions around sloughs, crossings of valleys, draining examinations and assisting the councillors wherever help was needed.

All surveys that were important with the exception of three have been completed and reported, though there are quite a number still on hand. The surveys required for this district were very much behind as my list included some from 1902 and 1903 besides the current work for 1904. I have not had time this season to go thoroughly into the bridges as my time was taken up more particularly with surveys, though next season I shall devote more time to that part of my work.

NEW Roads and Diversions surveyed during 1904.

Section 34 township 1 range 6 west of the second meridian new road to allow access to bridge over Souris river.

S. w.  $\frac{1}{4}$  section 15 township 3 range 1 west of the second meridian diversion around head of ravine.

N. E.  $\frac{1}{4}$  section 33 township 7 range 1 west of the second meridian new road, road allowance very wet.

Sections 9 and 10 township 9 range 1 west of of the second meridian diversion to avoid sloughs on road allowance.

Sections 35 and 2 townships 10 and 11 range 1 west of the second meridian diversion to avoid sloughs on road allowance.

Sections 25 and 36 township 10 range 2 west new road to open a road from High View to Manor.

West  $\frac{1}{2}$  section 27 township 11 range 30 west new road to allow crossing of Pipestone creek.

Sections 28 and 33 township 11 range 31 west diversion to avoid sloughs on road allowance.

Sections 24 and 13 township 11 range 3 west of the second meridian diversion to avoid sloughs on road allowance.

Sections 5 and 8 township 13 range 31 west diversion to avoid sloughs on road allowance.

Sections 9 and 16 township 13 range 31 west diversion to avoid sloughs on road allowance.

Sections 21 and 28 township 13 range 31 west diversion to avoid slough on road allowance.

S.E.  $\frac{1}{4}$  section 12 township 13 range 30 west diversion to avoid sloughs on road allowance.

Sections 14, 15, 22 and 23 township 13 range 1 west of the second meridian diversion to afford crossing of creek.

N.W.  $\frac{1}{4}$  section 4 township 14 range 1 west of the second meridian diversion to allow access to bridge on Pipestone.

Section 33 township 14 range 3 west of the second meridian new road to allow access to road to Whitewood.

Section 3 township 15 range 3 west of the second meridian new road to allow access to bridge over Pipestone.

Sections 4 and 9 township 15 range 4 west of the second meridian, new road, road allowance in muskeg.

East  $\frac{1}{2}$  section 33 township 15 range 33 west diversion to avoid slough on road allowance.

N.W.  $\frac{1}{4}$  section 10 township 16 range 33 west diversion to avoid slough on road allowance.

North  $\frac{1}{2}$  section 19 township 17 range 1 west of the second meridian diversion to avoid slough on road allowance.

S.W.  $\frac{1}{4}$  section 14 township 17 range 2 west of the second meridian diversion to avoid slough on road allowance.

Sections 16 and 17 township 17 range 2 west of the second meridian diversion to allow crossing of Squaw Head creek.

Section 7 township 18 range 2 west of the second meridian new road to allow crossing of Qu'Appelle river.

N.W.  $\frac{1}{4}$  section 20 township 18 range 4 west of the second meridian diversion to allow access to Cotham bridge.

Sections 9 and 16 township 18 range 32 west new road crossing Qu'Appelle valley.

Sections 34 and 27 township 18 range 33 west diversion crossing of Little Cut Arm at Hazelcliffe.

In sections 3 and 4 township 19 and section 9 township 19a range 3 west of the second meridian diversion to afford a feasible crossing of creek.

N.E.  $\frac{1}{4}$  sections 4 and 9 township 19 range 2 west of the second meridian diversion to avoid sloughs on road allowance.

N.W.  $\frac{1}{4}$  section 16 township 19 range 1 west of the second meridian diversion to avoid sloughs on road allowance.

Between N.W.  $\frac{1}{4}$  and S.W.  $\frac{1}{4}$  section 28 township 19 range 1 west of the second meridian new road to afford access to town of Esterhazy.

In sections 25, 26, 35 and 36 township 19 range 32 west new road crossing of Big Cut Arm creek.

In sections 25 and 24 township 21 range 1 west of the second meridian new road crossing of the Big Cut Arm creek at Kinbrae.

In north  $\frac{1}{2}$  section 1 township 23 range 2 west of the second meridian diversion to avoid slough on road allowance.

N.W.  $\frac{1}{4}$  section 17 township 23 range 1 west of the second meridian diversion to give better crossing of slough on road allowance.

West  $\frac{1}{2}$  section 24 township 24 range 2 west of the second meridian diversion to avoid slough on road allowance.

In east  $\frac{1}{2}$  section 24 township 25 range 2 west of the second meridian diversion to avoid slough on road allowance.

In N.E.  $\frac{1}{4}$  section 9 township 9 range 1 west of the second meridian diversion to avoid slough on road allowance.

In S.W.  $\frac{1}{4}$  section 29 township 17 range 2 west of the second meridian diversion to avoid slough on road allowance.

#### EXAMINATIONS.

In north  $\frac{1}{2}$  section 2 township 23 range 1 west of the second meridian examination to find possibility of straightening road.

On north boundary section 8 township 14 range 3 west of the second meridian examination and report.

In S.W.  $\frac{1}{4}$  section 16 township 10 range 1 west of the second meridian examination and report.

In section 13 township 30 range 3 west examination and report.

In east boundary section 23 township 1 range 18 west of the second meridian examination and report.

In N.W.  $\frac{1}{4}$  section 9 township 18 range 32 west examination and report creamery site.

#### DRAINS Surveyed during Season of 1904.

In S.E.  $\frac{1}{4}$  section 16 township 9 range 1 west of the second meridian to drain slough on road allowance.

In s. e.  $\frac{1}{4}$  section 9 township 9 range 1 west of the second meridian to drain slough on road allowance.

In n. e.  $\frac{1}{4}$  section 9 township 12 range 1 west of second meridian to drain slough on road allowance government drain No. 190.

N. w.  $\frac{1}{4}$  section 26 township 12 range 1 west of the second meridian to drain slough on road allowance government drain No. 189.

In s. w.  $\frac{1}{4}$  section 27 township 13 range 2 west of the second meridian to drain slough on road allowance.

In north  $\frac{1}{2}$  section 20 township 13 range 31 west to drain slough on road allowance and adjoining sections.

In sections 4 and 32 townships 13 and 12 range 21 west to drain slough on road allowance and adjoining sections.

In n. e.  $\frac{1}{4}$  section 6 and n. w.  $\frac{1}{4}$  section 5 township 19 range 1 west of the second meridian to drain lake on road allowance.

In n. w.  $\frac{1}{4}$  section 8 township 22 range 32 west to drain slough on road allowance.

In s. w.  $\frac{1}{4}$  section 19 township 24 range 1 west of the second meridian to drain slough on road allowance.

#### EXAMINATIONS and Levels Run.

In section 10 township 10 range 1 west of the second meridian levels given to councillor re drainage of sloughs on road allowance.

In s. w.  $\frac{1}{4}$  section 28 township 19 range 1 west of the second meridian examination of culvert under C.P.R. track and levels taken.

On north boundary section 1 township 23 range 2 west of the second meridian levels taken to show outlet of Saltcoats lake through culvert under C.P.R. track.

In section 36 township 23 range 2 and section 19 township 23 range 1 west of the second meridian levels run for drainage of several sloughs along road allowance.

#### RESERVOIRS Surveyed during Season 1904.

In section 35 township 13 range 31 west profile and plan of dam and sluiceway.

In section 29 township 23 range  $\frac{1}{4}$  west survey of reservoir and ditch in connection.

In section 28 township 21 range 31 west examination and report.

#### CROSS SECTIONS.

In section 12 township 12 range 31 west cross section for lengthening bridge.

On n. w.  $\frac{1}{4}$  section 31 township 13 range 32 west cross section for new bridge.

In section 10 township 18 range 33 west sketch plan for extension and raising.

In section 9 township 18 range 32 west cross section of Qu'Appelle river.

In section 20 township 18 range 4 west of the second meridian cross section of Qu'Appelle river.

In section 26 township 19 range 32 west cross section of Big Cut Arm creek.

In section 27 township 18 range 33 west cross section of Little Cut Arm creek

Your obedient servant,

H. K. MOBERLY,

*District Engineer and Surveyor.*

*Saskatchewan Public Works District.*

PRINCE ALBERT, *December 31st, 1904.*

JOHN STOCKS, Esq.,

*District Commissioner of Public Works,*

Regina, N.W.T.

SIR,—During the season I have performed all the surveys and investigations ordered except two, one of which came too late, and the other I had to report on before performing the survey. In addition to these I have made such other surveys and investigations as I found were required while on the ground, and going from one locality to another. On the whole the season has been very favourable, not much rain and less winds than usual.

The survey of part of the trail from Prince Albert towards Montreal lake, some 30 miles, was my largest work. Next in extent was retracing 10 miles of the trail from Saskatoon towards Battleford. New roads leading into Melfort required over seven miles of survey. These were urgently required, as the road allowances were singularly unsuitable. Most of the right of way will be given free of cost. The public for some years have been using these routes in anticipation of the survey. The survey to connect leading roads with Isbister's ferry, about six miles, assures an uninterrupted route from Prince Albert easterly to Coxby-Fort a La Corne, etc. About four miles of survey of roads at the town of Tisdale section 30 township 4½ range 14 west of the second meridian, is for substitutes for road allowances, which were scarcely practicable. The right of way for nearly all of which will be given free. All of the foregoing are in the schedule annexed.

No engineering difficulties were encountered but the ever increasing difficulty of finding monuments of the original surveys and the growth of timber and scrub makes the survey work more arduous and slower every year. Indeed there is but little of the true prairie left.

Several ditches were laid out. Plans, profiles, estimates, etc., were made and some reports sent in while on the route. On every hand I find more drainage being done than formerly. It is being recognised by the people that it is a vital part of road making.

With the increased number of settlers, the statute labour of each year is doing much to improve the roads, more especially the worst places. The department has taken means to promptly repair small bad breaks where such are on leading roads. This is giving great satisfaction.

#### *Ferries.*

The unexpected and unprecedented sudden breaking up of the rivers with much higher water did some damage, as might be expected, to some of the ferries, notably the Ibister ferry and Adams ferry. These were reported on and so promptly repaired that there was scarcely any interruption of the public travel.

I am now working at the plans and field notes of my season's work. These will be completed in good time as per regulations. Reports will also be sent in during the winter on drains with profiles, estimates, etc.

When the Canadian Northern is completed to Battleford (it is about completed now to the North Saskatchewan river), new roads or improvements on road allowances to reach the new stations may be required. The same results will follow the completion of said railway from Melfort to Prince Albert (75 miles). The general effect of such railways cannot at present be fully anticipated.

All of which is respectfully submitted.

Your obedient servant,

CYRUS CARROLL, D.L.S.,  
*District Engineer and Surveyor.*

#### SCHEDULE of Surveys performed in District of Saskatchewan, 1904.

##### ROAD Diversions.

On the east side of section 30 township 47 range 26 west of the second meridian, to avoid a slough and two crossings of McFarlane's creek.

On east side of section 21 township 47 range 27 west of the second meridian, to avoid a slough.

On N.E.  $\frac{1}{4}$  section 19 and N.W.  $\frac{1}{4}$  section 20 township 42 range 5 west of the third meridian, to avoid a lake.

East of section 35 township 43 range 5 west of the third meridian and section 2 township 44 range 5 west of the third meridian, to avoid a slough.

On east side of sections 3 and 10 township 47 range 26 west of the second meridian, to avoid a slough.

On north side of section 22 township 42 range 3 west of the third meridian, to avoid sloughs.

On east side of section 19 township 36 range 6 west of the third meridian, to avoid a slough.

On east side of river lot No. 25, Prince Albert settlement, to avoid a slough.

#### NEW ROADS.

On north side section 16 township 46 range 23 west of the second meridian, to connect trail with road allowances.

Through sections 16, 15, 14, 13 and 12 township 48 range 24 west of the second meridian and section 25 township 48 range 24a west of the second meridian, to connect roads and Isbister's ferry.

Extension of road on east side of the Q. L. L. and S. R. and S. Co.'s Ry. with connection to streets in the town of Rosthern s.w.  $\frac{1}{4}$  section 35 township 42 range 3 west of the third meridian.

Between the north and south halves of section 30 township 44 range 14 west of the second meridian, between the N.E. and S.E. quarters section 25, also between N.E. and N.W. quarters section 25 and east and west halves section 36 township 44 range 15 west of the second meridian, to connect with townsite of Tisdale on section 1 township 45 range 15 west of the second meridian (right of way given).

Through sections 6 and 7 township 45 range 21 west of the second meridian, to avoid a slough.

Along east side of railway section 33 township 36 range 5 west of the third meridian, to connect roads with the town of Saskatoon.

North side of sections 1, 2, 3 and 4 township 45 range 19 west of the second meridian, substituted for bad road allowances, also new road on north side of sections 5 and 4 and 6 township 45 range 18 west of the second meridian, substituted for inconvenient road allowances and to avoid crossing of creek (right of way mostly given for the whole of this survey).

North  $\frac{1}{2}$  section 11 township 45 range 4 west of the third meridian, to connect trail from Duck lake with Carleton trail.

#### OLD TRAILS.

From Prince Albert, towards Montreal lake, through townships 49, 50, 51 and 52 to the 14th base line, total distance about 30 miles.

From Saskatoon towards Battleford; this was retracing old surveyed trail, 10 miles.

#### INVESTIGATIONS.

Investigation and retracing east side of section 13 township 49 range 24 west of the second meridian, diversion not recommended.

Investigation and retracing road allowance on east side section 33 township 44 range 20 west of the second meridian, and as to surveying road through said section.

Investigation and retracing Carleton trail through section 21 township 47 range 27 west of the second meridian.

Investigation as to advisability of survey of a trail near the river north of Saskatoon, not recommended.

Investigation as to need of a road surveyed in section 12 township 45 range 22 west of the second meridian, reported adversely.

Investigation as to making road on east side of river lot No. 25, Prince Albert settlement, estimate and report made.

#### DRAINS.

Drain No. 192 section 14 township 45 range 17 west of the second meridian, survey levels, profile and report, as to drainage of big slough on road allowances.

Survey on section 24 township 48 range 25 west of the second meridian, outlet drain, levels, profile and report; drain made.

Levels, profile and report for drainage of big slough section 36 township 44 range 18 west of the second meridian, township boundary.

Levels, profile and estimate for drain section 16 township 45 range 21 west of the second meridian, to remove water from roads leading into Kinistino.

Survey, level, profiles, etc., drain section 23 township 49 range 23 west of the second meridian; drain is now made.

### ENGINEERING BRANCH.

Staff .....	}	Assistant chief engineer. 1 draughtsman. 1 clerk in charge of bridge records. 1 stenographer. 1 clerk and stenographer in charge of road improvement. 1 clerk and stenographer charge of fireguard records and ferries.
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During the season 247 bridges were constructed, 23 rebuilt and 94 repaired, making a total of 364 bridges dealt with, as against 207 in 1903 and 280 in 1902.

Owing to the severe spring floods in Eastern Assiniboia, several of the older structures were destroyed, thus necessitating the construction of a great number of new bridges.

The office work of this branch shows that 63 plans, 81 contracts, and 360 bills of quantities were prepared and recorded. As stated in our 1903 report a series of standard bridge plans were prepared and they are still being maintained except in cases of larger structures requiring special designs. The increase in the work of this branch during the year will be clearly illustrated by the list of roads, bridges, fireguards, etc.

#### *Construction of Bridges.*

Of the 364 bridges dealt with during the season, 247 were new structures, as compared with 127 in 1903. These bridges were constructed according to designs prepared to meet the difficulties existing in different portions of the Territories. Concrete substructures where used have proved very satisfactory, and will undoubtedly as far as possible in future be substituted for timber. The expenditure in connection with the handling of bridges was \$330,615.73 compared with \$191,917.10, last year. An explanation regarding the increase is, that in addition to other bridges, this amount includes the expenditure incurred during the year on the Belly and Old Man river bridges, a sum of which amounting to \$84,235.92, has been reimbursed by the Dominion Government. The usual schedule of bridges constructed, reconstructed and repaired, together with a list of steel bridges is shown below.

#### SCHEDULE OF Bridges constructed, rebuilt and repaired.

- Arm river, section 13 township 24 range 28w2. Grading approaches.
- Arm river, sections 10/15 township 23 range 27w2. Grading approaches.
- Arm river, section 23 township 24 range 28w2. Construction four 20 ft. spans on pile bents.
- Arm river, sections 23/24 township 24 range 28w2. Grading hills leading to bridge.

Arm river, sections 8/9 township 22 range 26w2. Construction three 20 ft. spans on piles.

Assiniboine river, sections 31/32 township 33 ranges 3/4w2. Construction 60 ft. wooden truss with one 20 ft. approach at each end.

Assiniboine river, one mile south-west of Fort Pelly, repairs.

Antler creek, sections 5/6 township 3 range 32w1. Repairs, also one 18 ft. span on pile bents 100 ft. south of main structure.

Amisk creek, sections 19/30 township 49 range 18w4. Grading and filling up approaches.

Bigstone river, section 2 township 47 range 24w4. Construction 44 ft. truss.

Battle river section 33/34 township 44 range 23w4. Grading approaches.

Borwick sloughs, section 32 township 56 range 16w4. Construction.

Beaver creek, sections 4/33 townships 55/56 range 19w4. Repairing approaches.

Beaver creek, sections 12/13 township 55 range 19w4. Repairs.

Beaver creek, sections 5/6 township 56 range 19w4. Repairs.

Beaver creek, sections 11/12 township 56 range 20w4. Construction of 40 ft. truss, 20 ft. span at each end.

Black Mud creek, sections 36/1 townships 50/51 range 24w4. Construction of pile trestle, three 20 ft. spans.

Black Mud creek, sections 7/18 township 50 range 24w4. Construction of 30 ft. truss with 20 ft. span at each end.

Boggy creek, sections 16/17 township 27 range 2w2. Construction of two 18 ft. spans on piles.

Boggy creek, sections 30/25 township 27 ranges 2/3w2. Repairs.

Boggy creek, sections 16/21 township 28 range 3w2. Repairs.

Beaver creek, sections 4/32 townships 30/31 ranges 4w3. Construction of a 16 ft. span on frame bents and sills.

Beaver creek, sections 6/31 township 30/31 range 4w3. Repairs, adding 20 ft. span to each end and moving bridge.

Beaver creek, sections 2/3 township 16 range 30w1. Construction two 20 ft. spans on pile bents.

Big river, township 52 range 8w3. Grading approaches.

Burnt lake trail, sections 9/16 township 38 range 28w4. Construction of two 20 ft. spans.

Blindman river, sections 21/28 township 40 range 1w5. Reconstruction.

Branch Pipestone river, sections 29/32 township 47 range 24w4. Construction three 20 ft spans on pile bents,

Blindman river, sections 19/30 township 42 range 2w5. Construction 60 ft. steel Warren truss. 20 ft. pile approach to one end two 20 ft. spans at other end.

Battle river, sections 36/1 townships 44/45 range 23w4. Construction 80 ft. steel truss with 20 ft. pile approach at each end.

Bennet's creek, sections 12/13 township 8 range 5w2. Removing bridge to this location, put in on same bent adding 16 ft. bent making length 32 ft.

Bow river, sections 34/35 township 25 range 4w5. Raising bridge 2 ft.

Bow river, Morley. Repairs.

Blackstrap coulee, section 6 township 33 range 3w3. Construction one 20 ft. span on piles.

Blackstrap coulee, section 36 township 32 range 4w3. Construction one 20 ft. span on piles.

Crooked creek, sections 1/2 township 30 range 4w5. Construction 20 ft. span on pile bents.

Coulee north of Morley, section 1 township 25 range 4w5. Reconstruction 20 ft. span on pile bents.

Cook's creek, sections 27/22 township 7 range 1w2. Construction 16 ft. pile bent on sills.

Cook's creek, sections 21/22 township 7 range 1w2. Repaired; 14 ft. span added to each end.

Crooked creek, sections 4/5 township 8 range 4w2. Construction three 20 ft. spans pile bridge.

Crooked creek, sections 9/16 township 8 range 4w2. Construction two 18 ft. spans pile bridge.

Creek, sections 28/33 township 2 range 26w4. Construction 20 ft. span pile bridge.

Creek, sections 2/35 townships 19/20 range 3w5. Reconstruction.

Coulee, sections 23/14 township 20 range 1w5. Repaired.

Creek, section 5 township 35 range 28w4. Construction 20 ft. pile span.

Creek, section 8 township 35 range 28w4. Construction 20 ft. pile span.

Creek, townships 32/33 range 27w4. Construction two 20 ft. pile spans.

- Carrot river, sections 7/8 township 45 range 21w2. Grading approaches.
- Creek, sections 2/3 township 26 range 36w2. \$25.00 expended in repairs.
- Creek, sections 35/2 townships 45/46 range 21w2. Construction. To be graded L.I.D. in spring.
- Creek, sections 4/5 township 6 range 20w4. Construction of trestle bridge (4 bents).
- Creek, sections 21/28 township 6 range 20w4. Construction of trestle bridge (4 bents).
- Creek, section 14 township 9 range 28w3. Construction 20 ft. pile span.
- Creek, sections 15/22 township 9 range 30w3. Construction three 14 ft. spans.
- Cypress trail, section 1 township 8 range 4w4. Repairs.
- Creek, sections 2/3 township 27 range 29w2. Construction 20 ft. span on frame bents.
- Creek, section 35 township 42 range 3w3. Construction 30 ft. truss on pile substructure.
- Creek, sections 25/30 township 42 ranges 2/3w3. Construction one 20 ft. span on piles.
- Creek, sections 19/30 township 42 range 2w3. Construction one 20 ft. span on piles.
- Creek, sections 25/30 township 20 ranges 26/27w2. Repairs.
- Creek, sections 2/34 townships 26/27 range 28w2. Construction of two 20 ft. pile spans.
- Coulee, sections 14/15 township 17 range 28w2. Construction one 20 ft. pile span.
- Coulee, one mile north of Davison. Construction of one 20 ft. pile span.
- Creek, section 1 township 21 range 13w2. Repairs.
- Creek, section 10 township 19 range 12w2. Construction of 20 ft. span on piles. 16 ft. span at each end on piles.
- Creek, sections 29/30 township 10 range 16w2. Construction of 20 ft. span on piles.
- Creek, section 17 township 9 range 16w2. Construction of 20 ft. span on piles.
- Creek, sections 4/32 townships 10/11 range 16w2. Construction of 20 ft. span on piles.
- Creek, section 20 township 51 range 24w4. Construction of 20 ft. span on piles.
- Creek, sections 29/30 township 54 range 13w4. Construction of two 20 ft. spans on piles.
- Creek, sections 34/35 township 45 range 24w4. Construction of small bridge.
- Creek, sections 25/30 township 13 range 2w2. Construction two 20 ft. pile spans on pile bents.
- Creek, sections 7/8 township 17 range 2w2. Construction one 20 ft. span.
- Creek, sections 1/6 township 13 ranges 32/33w1. Grading approaches.
- Coulee, section 21 township 47 range 24w4. Construction small bridge; additional grading required.
- Creek, sections 13/14 township 12 range 4w2. Construction two 20 ft. spans on pile bents.
- Creek, sections 7/8 township 17 range 2w2. Construction one 20 ft. span on pile bents.
- Creek, sections 19/30 township 13 range 1w2. Construction one 20 ft. span on pile bents.
- Creek, sections 12/13 township 14 range 4w2. Construction one 20 ft. span on pile bents.
- Creek, south of section 5 township 12 range 1w2. Construction one 20 ft. span on pile bents.
- Creek, sections 25/26 township 17 range 9w2. Construction one 16-ft. span on pile bents.
- Creek, sections 9/10 township 30 range 9w2. Construction one 16 ft. span on frame bents.
- Cussed creek, sections 34/3 townships 25/26 range 5w2. Repairs.
- Cussed creek, sections 1/6 township 27 ranges 7/6w2. Construction 20 ft. span on piles.
- Cussed creek, sections 25/30 township 27 ranges 4/5w2. Repairs.
- Coulee, section 36 township 32 range 4w5. Construction four 20 ft. spans on pile bents.
- Creek, section 5 township 26 range 1w5. Construction 20 ft span on pile bents.
- Cottonwood creek, sections 1/36 townships 16/17 range 22w2. Construction two 20 ft. spans on pile bents.
- Creek, sections 14/15 township 13 range 1w2. Construction two 20 ft. spans on pile bents.
- Cottonwood creek, sections 24/25 township 17 range 22w2. Construction three 20 ft. spans on pile bents.



Cussed creek, sections 11/12 township 27 range 6w2. Construction two 20 ft. spans on pile bents.

Cussed creek, section 1 townships 26/27 ranges 6/7w2. Repairs.

Cussed creek, sections 33/34 townships 26/27 ranges 5/2w2. Repairs.

Coulee (Bull Horn), sections 28/33 township 2 range 26w4. Construction one 20 ft. span on pile bents.

Creek, sections 4/9 township 46 range 21w4. Construction three spans, two of 16 ft. each and one of 18 ft. all on pile bents.

Creek, sections 14/15 township 13 range 1w2. Construction two 20 ft. spans on pile bents.

Cut Arm creek, sections 24/25 township 21 range 2w2. Repairs.

Coulee, sections 31/5 townships 2/3 range 26w4. Construction one 20 ft. span on piles.

Cussed creek, sections 30/31 township 27 range 4w2. Repairs.

Crow's Nest river, N.W.  $\frac{1}{4}$  section 36 township 7 range 4w5. Construction 80 ft. steel truss, 20 ft. span at each end on pile bents.

Crow's Nest river, S.W.  $\frac{1}{4}$  section 36 township 7 range 4w5. Construction 80 ft. steel span, 20 ft. span at one end, two 20 ft. at other.

Crow's Nest river, N.W.  $\frac{1}{4}$  section 36 township 7 range 4w5. Construction 80 ft. steel truss 20 ft. span at one end and two 20 ft. at other.

Dog Pound creek, section 14 township 31 range 3w5. Construction 50 ft. wooden truss, 2-20 ft. and 1-16 ft. approach.

Dog Pound creek, section 2 township 29 range 4w5. Repairs.

Drain No. 4, section 9 township 53 range 24w4. Grading.

Drain No. 4, sections 28/29 township 53 range 24w4. Construction one 16 ft. span on pile bents.

Drain No. 4, section 28 township 53 range 24w4. Construction one 16 ft. span on pile bents.

Dry Wood river, section 17 township 4 range 29w4. Construction 50ft wooden truss with two 20 ft. approaches at one end and one at other.

Devil's creek, section 18 township 28 range 25w2. Construction one 20 ft. span on pile bents.

Drain No. 56, sections 10/15 township 9 range 15w2. Construction three 20 ft. spans on pile bents.

Drain No. 56, N.E.  $\frac{1}{4}$  section 10 township 19 range 15w2. Construction one 24 ft. span on pile bents.

Dried Meat creek, sections 15/16 township 45 range 19w4. Construction 30 ft. wooden truss on pile substructures.

Drain No. 141, Carleton trail. Construction one 20 ft. span and spillway.

Dried Meat creek, sections 16/17 township 45 range 18w4. Repairs; grading approaches.

Dry Wood river, sections 17/18 township 4 range 28w4. Construction one 100 ft. steel span and two 20 ft. pile approaches at one end, one 20 foot at other.

Duck creek, sections 7/12 township 33 ranges 10/11w2. Repairs.

Elbow river, sections 4/5 township 24 range 2w5. Construction two 80 ft. steel trusses with one 20 ft. pile approach at the south end and two 20 ft. at north end, and short distance further north structure of 60 ft. wooden truss with 20 ft. pile approach at one end, and four 20 ft. approaches at other end.

Eagle creek, sections 5/32 townships 34/35 range 10w3. Construction three 20 ft. spans on pile bents.

Egg lake, sections 27/28 township 56 range 25w4. Construction two 20 ft. spans on pile bents.

Eight Mile creek, sections 28/33 township 49 range 26w4. Construction three 20 ft. spans on pile bents.

Ebel lake, section 9 township 30 range 9w2. Construction three 20 ft. spans on pile bents.

Fulton's creek, sections 52/53 east side of R.L. 43. Repaired.

Fulton's creek, sections 52/53 east side of R.L. 43. Construction two 16 ft. spans, on pile bents.

Goss creek, sections 26/27 township 24 range 4w5. Construction two 16 ft. spans on pile bents.

Goodridge creek, sections 34/35 township 52 range 25w4. Construction one 20 ft. span on pile bents.

Gap creek, section 32 township 9 range 27w3. Construction two 20 ft. spans on pile bents.

Horse lake creek, sections 22/27 township 29 range 11w2. Construction two 20 ft. spans on pile bents.

Hislop creek, sections 10/15 township 8 range 4w2. Construction two 20 ft. spans on pile bents.

Haynes creek, sections 2/3 township 30 range 24w4. Construction two 20 ft. spans on frame bents.

Insinger creek, sections 26/27 township 28 range 7w2. Construction two 20 ft. spans on pile bents.

Jackfish creek, section 22 township 48 range 17w3. Construction eight 20 ft. spans on piles.

Jamieson coulee, section 15 township 38 range 27w4. Repairs to crossing and cutting down hill.

Jones' creek, sections 4/32 townships 38/39 range 25w4. Construction 20 ft. span on frame bents.

Judd Bray creek, sections 24/19 township 31 ranges 11/12w2. Construction two 20 ft. spans on pile bents.

Knee Hill creek, sections 6/31 townships 33/34 range 26w4. Construction 20 ft. span on pile bents.

Knee Hill creek, sections 5/32 townships 32-33 range 26w4. Construction 20 ft. span on pile bents.

Knee Hill creek, sections 32/5 townships 32/33 range 26w4. Construction 30 ft. wooden truss on pile bents.

Long creek, sections 7/18 township 2 range 12w2. Construction 20 ft. span on pile bents.

Long creek, sections 20/21 township 8 range 14w2. Repairs to approaches.

Lone Pine creek, sections 20/29 township 32 range 28w4. Construction two 20 ft. spans on pile bents.

Lee creek, in the village of Cardston. Construction 100 ft. truss.

Lee creek, section 31 township 2 range 25w4. Construction 50 ft. wooden truss, and four 20 ft. pile approaches.

Branch of Lee creek, section 33 township 2 range 26w4. Construction 20 ft. span on pile bents.

Lightning creek, sections 24/19 townships 7 ranges 31/32w1. Construction three 20 ft. spans on pile bents.

Lightning creek, sections 8/17 township 7 range 31w1. Construction three 20 ft. spans on pile bents.

Lone Pine creek, sections 5/32 townships 32/33 range 28w4. Repairs.

Long creek, sections 19/30 township 13 range 22w2. Construction one 20 ft. span on pile bents.

Lee creek, section 17 township 2 range 26w4. Construction one 16 ft. span on pile bents.

Little Bow river, sections 1/6 township 17 ranges 26/27w4. Construction three 20 ft. spans on pile bents.

Little Cut Arm creek, sections 23/26 township 19 range 1w2. Grading approaches.

Little Bow river, section 5 township 15 range 21w4. Construction 80 ft. steel span on pile substructure.

Little Cut Arm creek, sections 1/6 township 20 ranges 1/2w2. Construction two 20 ft. spans on piles.

Little Cut Arm creek, sections 33/34 township 19 range 1w2. Construction three 20 ft. spans on main creek and one 20 ft. span on south branch, all on pile bents.

Moose Mountain creek, sections 23/24 township 7 range 4w2. Construction 40 ft. truss with three 20 ft. spans at one end and one 20 ft. span at the other.

Moose Mountain creek, sections 28/29 township 7 range 4w2. Repairs.

Moose Mountain creek, sections 2/3 township 7 range 2w2. Construction one 50 ft. truss with four 20 ft. spans on piles.

Moose Mountain creek, sections 9/10 township 11 range 8w2. Construction two 20 ft. spans on piles.

Moose Mountain creek, sections 1/6 township 13 ranges 8/9w2. Construction one 20 ft. span on frame bents, approaches graded.

Mosquito creek, section 30 township 16 range 28w4. Construction 50ft. wooden truss, one 14 ft. span at north end and two 20 ft. spans at south end.

- Medicine river, near Tindastoll Creamery. Repairs, tightening truss rods, etc.
- Melfort creek, sections 11/14 township 44 range 16w2. Construction two 20 ft. spans on pile bents.
- Maple creek, sections 1/2 township 44 range 20w2. Construction one 20 ft. span on pile bents.
- Maple creek, sections 15/16 township 45 range 20w2. Construction.
- Melfort creek, sections 19/30 township 45 range 18w2. Repairs.
- Meeting creek, sections 21/22 township 43 range 20w4. Construction.
- Maple creek, section 10 township 9 range 26w3. Construction one 24 ft. span on pile bents.
- Maple creek, section 22 township 9 range 26w3. Construction one 20 ft. span on pile bents.
- Medicine Lodge coulee, section 12 township 8 range 4w4. Repairs.
- Muskeg creek, on trail from Aldina P.O. to Jack Fish lake on Indian Reserve. Repairs.
- Muskeg creek, section 5 township 45 range 6w3. Construction six 20 ft. spans on pile bents.
- McFarlane creek, sections 12/13 township 46 range 1w2. Construction one 30 ft. truss bridge.
- Moose Jaw creek, sections 14/15 township 15 range 25w2. Repairs.
- Moose Jaw creek, sections 20/29 township 15 range 24w2. Reconstruction, replacing washed out 30 ft. truss with two 20 ft. spans at each end.
- Moose Jaw creek, section 30 township 18 range 24w2. Reconstruction.
- Moose Jaw creek, section 13 township 17 range 25w2. Reconstruction.
- Moose Jaw creek, sections 4/5 township 17 range 25w2. Repairs and additional pile bent of 20 ft.
- Moose Jaw creek, sections 9/10 township 16 range 26w2. Reconstruction.
- Moose Jaw creek, sections 35/36 township 15 range 26w2. Repairs.
- Moose Jaw creek, section 9 township 10 range 17w2. Grading.
- Moose Jaw creek, sections 19/20 township 14 range 22w2. Construction 50 ft. truss and three 20 ft. spans.
- Moose Jaw creek, Wood Mountain trail. Construction eight small bridges.
- Moose Jaw creek, section 26 township 13 range 22w2. Temporary repairs pending reconstruction.
- Moose Jaw creek, sections 3/4 township 12 range 19w2. Repairs.
- Moose Jaw creek, sections 3/4 township 15 range 23w2. Repairs.
- Moose Jaw creek, sections 29/30 township 15 range 23w2. Repairs to south approach.
- Moose Jaw creek, section 20 township 14 range 22w2. Construction 50 ft. wooden truss with three 20 ft. spans.
- Moose Jaw creek, sections 33/34 townships 3/4 range 2w2. Construction one 80 ft. steel span on pile piers one 20 ft. approach at each end.
- Moose Jaw creek, sections 29/30 township 12 range 20w2. Construction of four 20 ft. spans on pile bents.
- Moose Jaw creek, sections 29/30 township 15 range 23w2. Repairs.
- Moose Jaw creek, section 31 township 5 range 1w2. Repairs, replacing old 50 ft. truss and additional span of 20 ft.
- Moose Mountain creek, sections 14/15 township 14 range 10w2. Grading.
- Moose Mountain creek, sections 32/33 township 13 range 9w2. Construction one 20 ft. span.
- Mill creek, sections 35/36 township 51 range 23w2. Construction one 20 ft. span on pile bents.
- Mill creek, sections 32/33 township 51 range 23w2. Construction one 20 ft. span on pile bents.
- Montgomery creek, sections 20/29 township 13 range 3w2. Construction one 20 ft. span on pile bents.
- Many Bones creek, sections 15/16 township 15 range 14w2. Construction one 20 ft. span on pile bents.
- Many Bones creek, sections 1/6 township 13 ranges 12/13w2. Construction two 20 ft. spans on pile bents.
- Many Bones creek, sections 25/30 township 15 ranges 14/15w2. Construction one 20 ft. span on pile bents.
- Many Bones creek, sections 3/4 township 16 range 15w2. Construction one 16 ft. span on frame bents.
- Nose creek, sections 1/12 township 27 range 1w5. Construction three 20 ft. spans on pile bents.
- Nanton creek, sections 20/21 township 16 range 28w4. Construction two 20 ft. spans on pile bents.
- North Antler creek, sections 36/6 townships 6/7 ranges 30/31w1. Repairs.

Outlet Gull creek, sections 34/35 township 40 range 1w5. Construction two 20 ft. spans on pile bents.

Old Fort creek, six miles west of Morley. Construction.

Pipestone creek, sections 1/6 township 16 ranges 6/7w2. Construction two 20 foot spans on pile bents.

Pearl creek, section 25 township 10 range 7w2. Repairs.

Pearl creek, sections 4/33 townships 22/21 range 7w2. Construction one 16 ft. span on frame bents.

Pine creek, sections 1/2 township 22 range 1w5. Construction two 20 ft. spans on pile bents.

Pine creek, section 4 township 22 range 1w5. Construction two 20 ft. spans on pile bents.

Pine creek, sections 5/6 township 22 range 1w5. Reconstruction two 20 ft. spans on pile bents.

Phanaon creek, sections 7/8 township 47 range 21w2. Reconstruction one 24 ft. round timber.

Pincher creek, near village of Pincher. Repairs to floor.

Piapot creek, section 24 township 10 range 25w3. Construction 20 ft. span on pile bents.

Pipestone creek, sections 11/12 township 12 range 31w1. Repaired.

Pipestone creek, sections 27/28 township 11 range 30w1. Repairs to approaches.

Pipestone creek, sections 33/34 township 12 range 32w1. Construction two 20 ft. spans on pile bents.

Pipestone creek, sections 2/3 township 16 range 30w1. Construction two 20 ft. spans on pile bents.

Pipestone creek, sections 9/8 township 15 range 4w2. Construction.

Pipestone creek, section 3 township 15 range 3w2. Construction one 16 ft. span on pile bents.

Pipestone creek, section 6 township 15 range 3w2. Construction two 20 ft. spans on pile bents.

Pipestone creek, section 35 township 13 range 1w2. Grading approaches.

Pipestone creek, sections 2/3 township 47 range 23w4. Construction 50 ft. wooden truss.

Pipestone creek, sections 19/24 township 47 ranges 24/25w4. Construction 30 ft. wooden truss, additional grading required in spring.

Porter's dam, sections 23/26 township 17 range 28w2. Construction of bridge and spillway.

Pearl creek, section 25 township 19 range 7w2. Reconstruction of a pile bridge of two 18 ft. spans.

Point aux Pins, sections 13/14 township 54 range 23w4. Construction of three 20 ft. spans on pile bents.

Pot Hole creek, sections 6/7 township 4 range 23w4. Construction one 20 ft. span on pile bents.

Pheasant creek, sections 14/15 township 22 range 9w2. Construction three 24 ft. spans on pile bents.

Pheasant creek, sections 4/5 township 21 range 9w2. Construction two 18 ft. spans on pile bents.

Qu'Appelle river, sections 16/17 township 18 range 33w1. Extension and repairs.

Qu'Appelle river, section 11 township 18 range 33w1. Repairs and reflooring.

Qu'Appelle river, section 6 township 19 range 24w2. Construction four 20 ft. spans on pile bents.

Qu'Appelle river, sections 13/18 township 19 ranges 23/24w2. Construction four 20 ft. spans on pile bents.

Qu'Appelle river, Lebret. Temporary repairs.

Qu'Appelle river, sections 7/8 township 21 range 13w2. Repairs to approaches.

Qu'Appelle river, sections 13/14 township 19 range 23w2. Repairs.

Qu'Appelle river, section 14 township 19 range 22w2. Repairs.

Qu'Appelle river, section 12 township 18 range 3w2. Repairs.

Qu'Appelle river, section 7 township 18 range 2w2. Repairs.

Qu'Appelle river, sections 21/22 township 19 range 7w2. Repairs, temporary.

Qu'Appelle river, sections 10/11 township 19a range 8w2. Repairs to approaches.

Qu'Appelle river, section 19 township 18 range 19w2. Additional 20 ft. span to south end of Ellisboro bridge.

Qu'Appelle river, N.W.  $\frac{1}{4}$  section 9 township 18 range 32w1. Construction 80 ft. steel span and approaches.

Qu'Appelle river, sections 22/27 township 19 range 12w2. Construction 80 ft. steel truss and one 20 ft. span at one end.

Qu'Appelle river, section 20 township 18 range 4w2. Construction 80 ft. steel span, two 20 ft. spans at one end.

Qu'Appelle river, section 6 township 19a range 11w2. Construction 18 ft. span on pile bents.

Qu'Appelle river, section 22 township 18 range 9w2. Addition of 20 ft. span to south end.

Ross creek, sections 35/36 township 11 range 3w4. Construction three 20 ft. spans on pile bents.

Road allowance, sections 11/14 township 45 range 23w4. Construction two 20 ft. spans on pile bents.

Ravine, sections 25/30 township 13 range 2w2. Grading approaches.

Rivierre qui Barre, sections 23/26 township 55 range 27w4. Construction 20 ft. span on pile bents.

Ross creek, sections 21/28 township 53 range 21w4. Construction 20 ft. span on pile bents.

Road allowance, sections 19/30 township 17 range 28w2. Construction 20 ft. span on pile bents.

Road allowance, sections 25/30 township 17 ranges 28/29w2. Construction two 20 ft. spans on pile bents.

Ravine, sections 3/34 townships 16/17 range 28w2. Construction one 20 ft. span on pile bents.

Rush lake, Wood Mountain trail. Construction one 16 ft. frame bent.

Little Red Deer river, sections 9/16 township 33 range 3w5. Construction 100 ft. wooden span with two 20 ft. pile approaches.

Second Rat creek, sections 14/15 township 53 range 24w4. Construction 18 ft. span on pile bents.

Little Red Deer river, section 33 township 32 range 4w5. Construction 100 ft. timber truss with pile approaches.

Ross creek, section 5 township 54 range 21w4. Repairs.

Ross creek (branch), sections 4/33 townships 53/54 range 21w4. Construction two small bridges 18 ft. and 20 ft. span on pile bents.

Ross creek, between R.L. 9 and 35 township 54 range 22w4. Reconstruction 40 ft. span on three pile bents.

Road allowance, sections 31/32 township 28 range 4w5. 150 yards grading completed.

Ravine, sections 14/15 township 13 range 1w2. Grading approaches.

Ravine, sections 20/21 township 14 range 15w2. Construction 20 ft. span on frame bents.

Rough Bark creek, sections 35/36 township 9 range 18w2. Construction 20 ft. span on pile bents.

Rose Bud creek, section 15 township 31 range 2w5. Construction 20 ft. span on pile bents.

Sturgeon river, sections 28/29 township 55 range 22w4. Repairs.

Sturgeon river, village of St. Albert. Flooring and other repairs.

Sturgeon river, section 36 township 54 range 25w4. Construction 50 ft. truss with two 20 ft. spans at each end.

South Antler creek, sections 14/15 township 10 range 1w2. Construction two 20 ft. spans on pile bents.

South Antler creek, sections 13/24 township 7 range 33w1. Two 20 ft. spans on pile bents.

South Antler creek, section 2 township 3 range 32w1. Repairs.

South Antler creek, sections 13/18 township 2 ranges 31/32w1. Repairs.

South Antler creek, sections 21/22, township 1 range 31w1. Construction 40 ft. truss south of 60 ft. steel span.

Squaw creek, sections 22/27 township 25 range 29w2. Reconstruction.

Squaw creek, section 23 township 23 range 29w2. Construction two 20 ft. spans on pile bents.

Squaw creek, sections 16/17 township 17 range 2w2. Construction one 20 ft. span on pile bents.

Squaw creek, section 22 township 25 range 29w2. Construction two 20 ft. spans on pile bents.

Squaw creek, sections 23/26 township 17 range 29w4. Construction one 20 ft. span on pile bents.

Spring coulee, townships 3/4, range 23w4. Construction one 20 ft. span on pile bents.

Squaw coulee, sections 11/14, township 17 range 29w4. Construction 20 ft. span on pile bents.

Six Mile coulee, about eight miles from Battleford. Construction 18 ft. span on frame bents.

Small creek, sections 6/31 townships 7/8 range 3w2. Construction two 16 ft. spans on pile bents.

Swift creek, sections 23/26 township 8 range 3w2. Construction one 20 ft. span on pile bents.

Snake creek, sections 23/26 township 21 range 29w4. Repairs.

Slough, sections 5/8 township 19 range 27w4. Construction four 20 ft. spans on pile bents.

Sweetwater creek, sections 12/14 township 45 range 17w2. Grading.

Six Mile coulee, section 10 township 8 range 21w4. Construction one 26 ft. span on pile bents.

Standoff creek, section 17 township 8 range 25w4. Construction one 36 ft. span on pile bents.

Snake Plain creek, township 49 range 6w3. Repairs.

Spring creek, sections 26/27 township 16 range 27w2. Construction 16 ft. span on pile bents.

Snake creek, sections 5/32 townships 33/34 range 32w1. Construction round timber bridge.

Souris river, sections 31/36 township 1 ranges 3/4w2. Repairs.

Stony creek, sections 4/5 township 51 range 24w4. Grading completed.

Stony creek, sections 12/13 township 48 range 21w4. Construction small bridge.

Stony creek, sections 12/13 township 33 range 3w2. Reconstruction 16 ft. span and corduroying approaches.

Big Stone creek, section 2 township 47 range 24w4. Construction 44 ft. truss.

Sorefoot or Wilds creek, sections 28/33 township 26 range 6w2. Construction one 20 ft. span on pile bents.

Spring creek, sections 4/5 township 17 range 26w2. Construction one 20 ft. span on pile bents.

Branch (St. Mary's) river, section 26 township 1 range 25w4. Reconstruction one 16 ft. span bridge.

Stone's coulee, sections 15/16 township 43 range 3w3. Reconstruction.

Stony creek, section 4 township 48 range 20w4. Construction 19 ft. and 18 ft. spans on pile bents.

Souris river, sections 22/23 township 3 range 2w2. Construction 125 ft. steel span, five 20 ft. spans at one end and one at the other.

Souris river, sections 33/34 township 1 range 6w2. Construction 80 ft. steel span with 20 ft. span approach at either end.

Theodore creek, sections 33/34 township 27 range 7w2. Construction two 20 ft. spans on pile bents.

Thunder creek, section 31 township 16 range 26w2. Repairs.

Trail (Old Fort Walsh), section 14 township 9 range 28w3. Construction 20 ft. span on pile bents.

Trail from Macleod to Porcupine Hills. Construction 6 bridges and improvement to trail.

Trail, Fishburn, sections 3/4 township 8 range 26w4. Construction 36 ft. span on pile bents.

Thatch creek, sections 26/27 township 45 range 19w2. Construction 20 ft. span on pile bents.

Three Hill creek, section 36 township 34 range 26w4. Construction 20 ft. span on pile bents.

Tongue creek, sections 16/17 township 19 range 1w5. Construction three 16 ft. spans on pile bents.

Tongue creek, sections 11/14 township 19 range 2w5. Construction two 16 ft. spans on pile bents.

Tongue creek, section 13 township 9 range 29w4. Repairs, refflooring.

Trail from Barr colony east. Construction small bridges and improvement to road.

Trail, Battleford and Saskatoon, section 20 township 42 range 15w3. Construction two 20 ft. spans on pile bents.

Trail, Battleford and Saskatoon, section 36 township 41 range 16w3. Construction one 18 ft. span on pile bents.

Trail, Battleford and Saskatoon, section 16 township 43 range 16w3. Construction two 15 ft. spans on pile bents.

Trail, Cardston to Boundary line, section 16 township 2 range 25w4. Construction one 20 ft. span on pile bents.

Trail, Battleford and Saskatoon, section east of Eight Mile creek. Construction two 15 ft. spans on pile bents.

- Wolf creek, sections 10/15 township 42 range 26w4. Construction small bridge.
- Wascana creek, sections 5/6 township 14 range 15w2. Construction one 20 ft. span on pile bents.
- Wascana creek, sections 9/10 township 14 range 16w2. Construction two 16 ft. spans on pile bents.
- Wascana creek, sections 8/9 township 13 range 14w2. Construction one 20 ft. span on pile bents.
- Wascana creek, sections 5/6 township 14 range 15w2. Repairs.
- Wascana creek, sections 24/25 township 13 range 15w2. Grading approaches.
- Wascana creek, sections 31/32 township 17 range 20w2. Repairs.
- Wascana creek, sections 7/18 township 19 range 21w2. Temporary bridge.
- Wascana creek, section 11 township 18 range 21w2. Construction five 20 ft. spans on pile bents.
- Wascana creek, sections 7/18 township 21 range 21w2. Construction 4 20 ft. spans on pile bents.
- Wascana creek, sections 27/28 township 17 range 20w2. Construction five 20 ft. spans on pile bents.
- Wascana creek branch, sections 27/28 township 15 range 17w2. Repairs.
- Wascana creek, sections 19/30 township 16 range 18w2. Construction four 20 ft. spans on pile bents.
- Wascana creek, sections 31/32 township 16 range 18w2. Construction two 20 ft. spans on pile bents.
- Whitemud creek, sections 20/29 township 50 range 25w4. Graded.
- Little Whitemud creek, sections 30/31 township 49 range 25w4. Construction one 19 ft. span on pile bents, one 14 ft. approach at each end.
- Little Whitesand river, sections 31/32 township 25 range 3w2. Construction two 20 ft. spans on pile bents.
- Wetaskiwin creek, section 16 township 46 range 24w4. Construction one 20 ft. span on pile bents.
- Wetaskiwin creek, sections 4/9 township 46 range 24w4. Construction on 18 ft. span on pile bents.
- Whitesand river, sections 23/24 township 29 range 4w2. Reconstruction.
- Whitesand river (branch), sections 21/22 township 29 range 8w2. Construction two 20 ft. spans on pile bents.
- Whitesand river (little), sections 11/12 township 27 range 4w2. Repairs.
- Whitesand river (little), sections 1/6 township 26 range 3w2. Reconstruction 38 ft. Queen truss on piles.
- Whitesand river (little), sections 29/32 township 25 range 3w2. Construction two 20 ft. spans on pile bents.
- Yarrow creek, section 8 township 4 range 29w4. Construction small bridge.
- York lake, sections 20/21 township 25 range 4w2. Construction three 20 ft. spans.

*List of Steel Bridges Constructed During the Year 1904.*

- Blindman river, sections 19/30 township 42 range 2w5
- Battle river, sections 36/1 townships 44/45 range 23w4.
- Crow's Nest river, n. w.  $\frac{1}{4}$  section 36 township 7 range 4w5.
- Crow's Nest river, s. w.  $\frac{1}{4}$  section 36 township 7 range 4w5.
- Crow's Nest river, n. w.  $\frac{1}{4}$  section 36 township 7 range 4w5.
- Dry Wood river, sections 17/18 township 4 range 28w4.
- Elbow river, sections 4/5 township 24 range 2w5.
- Little Bow river, section 5 township 15 range 21w4.
- Moose Mountain creek, sections 33/34 townships 3/4 range 2w2.
- Qu'Appelle river, n. w.  $\frac{1}{4}$  section 9 township 18 range 32w1.
- Qu'Appelle river, sections 22/27 township 19 range 12w2.
- Qu'Appelle river, section 20 township 18 range 4w2.
- Souris river, sections 22/23 township 3 range 2w2.
- Souris river, sections 33/34 township 1 range 6w2.

In addition to the above list of bridges, the construction of bridges over Belly river and Old Man river which were delegated to the Government of the North-West Territories have been completed, and description of these bridges will appear elsewhere in this report. The following bridges are worthy of special mention.

*Bridge over Blindman river, Sections 19/30-42-2 5.*

This is a new structure consisting of a 60 foot steel span, and 60 foot timber approach, and serves as an outlet to Morningside and Lacombe for the settlers in the Medicine Lodge settlement west of Gull lake. This together with the bridge constructed last season over the outlet of Gull lake seems to satisfactorily meet the requirements.

*Bridge over Battle river Sections 31/1 Townships 44/55-23-4.*

This structure consists of an 80 ft. steel span and 40 ft. of pile approach which makes a good substantial crossing, and enables the settlers east of the river to reach their market town, Wetaskiwin.

*Three Bridges over Crow's Nest river between Frank and Blairmore.*

The residents of Frank and Blairmore have for some years been making requests for the bridging of the Crow's Nest river at this point. Careful inspection was made, and the whole situation fully reported upon. To meet the requirements it was found that three bridges would be required; two on the n.w.  $\frac{1}{4}$  of section 36, and one on the s.w.  $\frac{1}{4}$  of 36, all in township 7-4-5, each structure to consist of an 80 ft. span with necessary pile approach.

*Bridge over Drywood river, Sections 17/18-4-28-4.*

The construction of this bridge has been held in abeyance. About two years ago it was decided to construct a 50 ft. wooden truss with sufficient pile approach, but the floods of 1902 so changed the condition that the construction was postponed until this season, when a 100 ft. steel span with necessary approaches was erected. This makes a very substantial structure, and with the other bridge constructed on this stream in range 29 and bridge over Yarrow creek serve as important outlets to the Crow's Nest Railway for the settlers living in the foot-hill country south of these streams over what is known as the trail from Pincher to the oil fields.

*Bridge over Elbow river at Sprucevale.*

For some years past the old bridge at this point has not been giving satisfaction, and each season we have had more or less trouble and expense in repairing it. Owing to the very unsatisfactory condition of the river channel at this point a very careful examination was made with a view to constructing a bridge that would meet the requirements. In order to do this it was found necessary to construct two 80 ft. steel spans with 60 ft. of approach over the main new channel, and a 60 ft. timber truss with 100 ft. of approach over an old overflow channel, and a 40 ft. pile bridge on the overflow channel between the channels mentioned above. The construction was completed early in 1904. This makes a very substantial structure and ought to meet the flood conditions at that point, which are by no means an easy matter to overcome.



*Bridge over Little Bow river, Section 5-15-21-4.*

This bridge consists of an 80 ft. steel span with a 20 ft. approach to one end and affords a good crossing for the settlers residing between the Bow and Little Bow rivers. After crossing this bridge settlers have a clear way to the Calgary and Edmonton Railway, and by means of the new bridges constructed over the Old Man and Belly rivers settlers are enabled to reach Macleod or Lethbridge if necessary.

*Bridge over Qu'Appelle river at Katepwe, Sections 22/27-19-12-2.*

The old Katepwe bridge located at the mouth of the Katepwe lakes, has not, owing to its unsatisfactory location, been giving satisfaction for some few years, and last spring it was almost completely destroyed by floods. After a careful examination by our inspector, it was decided to change the location to road allowance something over a mile down the river, at a point known as Peltier's Crossing. An entire new bridge consisting of an 80 ft. steel span and necessary approaches was constructed, which seems to satisfactorily meet the requirements.

*Bridge over Qu'Appelle river at Tantallon, Section 9-18-32-1.*

Owing to the rapid growth of this town and the great number of settlers in the vicinity adjacent to the town, the department has on several occasions been requested to construct a bridge over the river at this point. A bridge consisting of an 80 ft. steel span and the necessary approaches was constructed: this makes a total of 19 steel bridges on this stream. In former years bridges of almost any design were constructed on this stream, but the floods of 1902 and last spring have illustrated very clearly that something of a more permanent nature must be provided.

*Bridge over Souris river near Coalfields, Sections 33/34-1-6-2.*

The old bridge at this point has been in bad shape for some years and although repaired last year, the floods of the past spring destroyed it completely. This year a structure consisting of an 80 ft. steel span and necessary approaches was constructed and makes a very serviceable crossing.

*Bridge over Souris river near Oxbow, Sections 22/23-3-2-2.*

Owing to the unusual floods which prevailed in this part of the country last spring, the old timber truss bridge was completely washed away and it was found necessary to construct an entire new bridge. The bridge which was open for traffic early in the fall, consists of a 125 ft. steel span with 100 ft. of approach on one end and 20 ft. on the other, which makes a good substantial crossing and meets the requirements of the settlers south of the river.

*Bridge over Qu'Appelle river at Fort Qu'Appelle.*

This bridge which has heretofore been known as the Hudson Bay bridge was constructed several years ago by that company. For the last

few years the department has been called upon to maintain it and the expense in connection with this work each season was considerable and at the same time the bridge was not giving entire satisfaction. This year, the old structure was taken down and a substantial bridge was constructed, consisting of an 80 ft. steel span with necessary approaches. As this bridge serves the general public, the east bridge was dispensed with, not being in a safe condition for traffic. The bridge over same stream at Lebret some miles east of the fort was also repaired.

#### CONSTRUCTION AND MAINTENANCE OF ROADS.

On account of the increase and extension of settlement and consequent fencing up of the old unsurveyed trails, thus forcing the use of road allowances, at least until really necessary deviation surveys are made, a large amount of road improvement is necessitated each season and the amount of road making and improvements from this cause alone is a large item each year. In addition to this the nature of the soil (generally clay loam) in the most fertile sections of the country over which the heaviest haulage of grain has usually to pass makes the maintenance of such roads in wet seasons an exceedingly difficult undertaking and in many places entirely beyond the means of the Department or local organisations. More attention to drainage of road bed to prevent damage and destruction by water would, in many cases, help the unfavourable conditions that have to be contended with, but the fact must be borne in mind that clay and earth roads always go to pieces under heavy traffic during wet weather and the scarcity of rock and gravel to use as a top dressing in many localities will be a serious drawback to even passable roads for many years to come. During 1904, \$95,064.00 was expended on road improvements directly by the Department, in addition to that done by the Local Improvement Districts, a good many of the most thickly settled districts have organised and placed themselves in a position to spend the Local Improvement Taxes upon the roads under the direction of the council. The recent wet years have been an object lesson and demonstrated pretty clearly that in many localities dry seasons are when improvements should be done, it being too expensive to grade up roads through sloughs and on wet ground during the wet seasons, while if the road had been raised and ditched during the dry seasons, it would have been possible to use it.

The importance of using brush and small timber to corduroy roads in wet places has been in many parts of the country entirely lost sight of, and many roads constructed without corduroy bottom simply lost, while the material available for such work is generally plentiful in the localities were required.

#### SCHEDULE of Road Improvements undertaken during the year 1904.

Between sections 33/34, 15/16, 3/4-12-30w1.  
 Moosomin to Fleming.  
 Moose Mountain trail, south from Moosomin.  
 Moosomin west.  
 Fleming north, between sections 3/4, 9/10, 15/16-13-30w1.  
 Between sections 7/18-14-30w1.  
 Between sections 12/13-14-30w1.  
 Between sections 2/3-16-30w1.  
 Assiniboine hill, section 36-22-30w1.

Moosomin south, between sections 28/29, 16/17, 8/9-13-31w1.  
 Langenberg to Landshutt, between sections 34/35-21-31w1.  
 Between sections 14/15-23-31w1.  
 Ditch west of 19-23-31w1, to improve road between sections 24/25-23-32w1.  
 Red Jacket to Hillburn.  
 Red Jacket south, between sections 8/9-14-32w1.  
 Rocanville west, between sections 13/24-16-32w1.  
 Tantallon hill and south to Qu'Appelle river.  
 Riddall's ravine, section 18-2-32w1.  
 Between sections 27/34-21-32w1.  
 Churchbridge north and south.  
 Churchbridge east, between sections 16/21-22-32w1.  
 Approaches to bridge on section 24/29-32w1.  
 Kamsack creek hill, between sections 14/15-29-32w1.  
 Between sections 19/20-1-33w1.  
 Carnduff to Redvers, east of section 36-3-33w1.  
 Wapella to St. Andrea.  
 Hazelcliffe hill, between sections 27/34-18-33w1.  
 Blake road, across sections 11 and 13-24-33w1.  
 Between sections 32/33, 33/34-7-1w2.  
 Approaches to bridge, between sections 34/35-13-1w2.  
 Between sections 14/15, 22/23-13-1w2.  
 Approaches to bridge, west of section 30-13-1w2.  
 Brookside trail township 14-1w2.  
 North of township 14-1w2.  
 Between sections 9/16, 8/9, 8/17-16-1w2.  
 Between sections 16/17, 20/21-17-1w2.  
 Forest Farm to Whitewood, north of sections 7, 11 and 12-17-1w2.  
 Between sections 15/16-19-1w2.  
 Kaposvar to Esterhazy, between sections 27/28-19-1w2.  
 Between sections 33/34, 21/28-19-1w2.  
 Between sections 14/15-13-1w2.  
 Ross' crossing of the Cut Arm, between sections 3/10-22-1w2.  
 Clumber crossing of the Cut Arm between sections 10/15-22-1w2.  
 Between sections 20/29-22-1w2.  
 West boundary of township 23-1w2.  
 Metcalfe crossing of the Cut Arm s.w. of 6-23-1w2.  
 Between sections 6/7-24-1w2.  
 Between sections 1/2-25-1w2.  
 Between sections 8/9, 16/17-27-1w2.  
 Between sections 4/5-9-2w2.  
 Between sections 19/20-14-2w2.  
 Whitewood to Sunnymede, between sections 29/30-15-2w2.  
 Between sections 19/24-15-2w2.  
 Between sections 17/18-16-2w2.  
 East of section 25-16-3w2.  
 North of section 32-16-2w2.  
 Between sections 5/6-16-2w2.  
 Between sections 27/28-17-2w2.  
 N.E. of section 36-17-2w2.  
 Between sections 4/5-17-2w2.  
 Approaches to bridge, between sections 8/9-18-2w2.  
 North of section 33-18-2w2.  
 East of sections 13, 24 and 25-19-3w2.  
 Between sections 18/19, 7/18-18-2w2.  
 Stockholm to Esterhazy, north of section 35-19-2w2.  
 East of section 36-22-3w2.  
 Between sections 27/34, 27/28-22-2w2.  
 Saltcoats to Crofter Colony east of section 36-24-2w2.  
 Between sections 10/11-24-2w2.  
 Blake road.  
 Between sections 5/6-29-2w2.  
 Between sections 23/26, 25/26-2-3w2.  
 Between sections 27/28-12-3w2.  
 Whitewood to Fletewode, between sections 15/16-14-3w2.  
 Whitewood to Moose Mountain.  
 Between sections 13/24-16-3w2.  
 East of section 25-16-3w2.  
 Between sections 26/27-16-3w2.  
 Between sections 19/30-16-3w2.  
 Between sections 1/2-19-3w2, north.

East of range 3-18-2.  
 Ohlen to Stockholm.  
 Between sections 7/8, 8/17-20-3w2.  
 Approaches to bridge between sections 16/21-28-3w2.  
 Across sections 20 and 29-15-4w2.  
 Approaches to bridge between sections 8/9-15-4w2.  
 Broadview to Whitewood, between section 24/25, 23/26-16-4w2.  
 Dubuc to Cotham, between sections 5/6-19a-4w2.  
 North of section 35-19-4w2.  
 Between sections 33/34-16-4w2.  
 On section 11-23-4w2.  
 Yorkton-Broadview road at Cemetery slough, between sections 35/36-25-4w2.  
 Yorkton-Otthon road, between sections 22/27-25-4w2.  
 Yorkton-Reaman road, between sections 25/26-26-4w2.  
 Yorkton-Touchwood road, north of sections 33 and 34-25-6w2.  
 Between sections 11/12-27-4w2.  
 Yorkton-Devil's lake trail, between sections 30/31-27-4w2.  
 Between sections 14/16, 21/22-27-4w2.  
 Between sections 9/10-3-5w2.  
 Between sections 21/22-16-5w2.  
 East of section 1-16-7w2.  
 Through section 11-26-6w2.  
 East of sections 4, 9 and 16-14-7w2.  
 Between sections 19/20, 29/30-15-7w2.  
 North of section 31-14-7w2.  
 Between sections 5/6-15-7w2.  
 Between sections 17/18-16-7w2.  
 Grenfell-Hyde road.  
 Hyde Hill.  
 Road over Pearl creek, north of township 19-7w2.  
 Approaches to bridge, between sections 21/22-19-7w2.  
 On section 14-29-7w2.  
 Between sections 33/34-14-8w2.  
 East of sections 13 and 24-16-8w2.  
 Between sections 7/8, 17-18-16-8w2.  
 Grenfell-Tiree road.  
 On section 19-18-8w2.  
 Ellisboro to the Reserve.  
 Between sections 10/11-19a-8w2.  
 On section 2-19a-8w2  
 Neudorf east, west and north.  
 Between sections 3/4-15-9w2.  
 North of section 34-16-9w2.  
 Wolseley to Summerberry.  
 Approaches to bridge, between sections 25/26-17-9w2.  
 Wolseley to Ellisboro.  
 Approaches to bridge, between sections 18/19-18-9w2.  
 Approaches to bridge, between sections 15/16-18-9w2.  
 Between sections 13/14-18-9w2.  
 Hill Farm to Lemberg, east of sections 1, 12, 13, 24-19-10w2.  
 Lemberg west, between sections 18/19, 17/20-20-9w2.  
 Lemberg north.  
 Wolseley to Lemberg between sections 9/10-20-9w2.  
 Between sections 4/5-22-9w2.  
 Between sections 24/25-4-10-2.  
 Between sections 21/23-4-9w2.  
 Approaches to bridge on section 15-14-10w2.  
 Between sections 14/15-14-10w2.  
 Moffat west, between sections 14/15-16-10w2.  
 East Moffat road.  
 Wolseley west.  
 Wolseley to Montmartre.  
 Between sections 14/15-18-10w2.  
 North of sections 34, 35 and 36-20-10w2.  
 Between sections 35/36-3-11w2.  
 Between sections 1/2-4-11w2.  
 Wolseley to Fairview.  
 North of sections 33 and 34-14-11w2.  
 North of 7, 8 and 9-17-11w2.  
 Approaches to bridge on section 6-19a-11w2.  
 Kenlis to Sinaluta.

North of 21, 22, 23 and 24-30-11w2  
 East of section 25-17-13w2  
 Between sections 20/29-19-12w2  
 Between sections 34/35-17-13w2, south.  
 Between sections 2/3, 10/11-19-13w2.  
 Fort Qu'Appelle to Wideawake  
 Fort Qu'Appelle to Loon creek.  
 Fort Qu'Appelle to the Sioux Reserve.  
 Approaches to bridge between sections 32/33-7-14w2  
 Approaches to bridge between sections 20/21-8-14w2  
 Ditch through section 28 to improve road between 28/29-8-14w2  
 North of section 31-8-14w2.  
 Between sections 4/5-9-14w2  
 Between sections 22/23-17-14w2  
 Through sections 14 and 15-21-14w2  
 Through sections 19 and 30-22-14w2  
 Grand rapids to Cross Lake.  
 Cross lake to Omhapewin portage.  
 North of section 31-9-15w2.  
 Approaches to bridge between sections 28/29-9-15w2  
 Between sections 24/25-13-15w2, west 5 miles, north 4 miles.  
 Between sections 24/25-18-15w2.  
 MacLean north.  
 Between sections 35/36-19-15w2.  
 North of section 36-19-15w2.  
 Fort Qu'Appelle to Touchwood hills.  
 Touchwood hills to Fishing lake.  
 Between sections 12/13-29-15w2.  
 North of township 10-16w2.  
 Between sections 29/30-10-16w2.  
 Between sections 26/27-16-16w2.  
 Between sections 7/8-16-16w2.  
 Between sections 11/12, 13/14-18-16w2.  
 East of sections 13 and 24-19-16w2.  
 Kutawa to Wishart,  
 Lang east and north.  
 Approaches to bridge between sections 26/27-11-17w2.  
 Between sections 23/24-13-17w2, north 9 miles.  
 Between sections 23/26, 26/27-17-17w2.  
 Balgonie to St Joseph's.  
 Between sections 33/34-18-17w2, south 3 miles.  
 Between sections 2/3-19-17w2.  
 Approaches to bridge north of section 32-21-17w2.  
 Approaches to bridge on section 16-21-17w2.  
 Approaches to bridge between sections 35/36-15-18w2.  
 Between sections 23/26-15-18w2.  
 North of township 21-18w2.  
 Between sections 20/29-44-18w2.  
 Between sections 3/4-12-19w2.  
 Between sections 33/34-15-19w2.  
 Regina to Arat.  
 Between sections 25/26-17-19w2, east one mile.  
 Approaches to bridge between sections 36/26-17-19w2.  
 Approaches to bridge between sections 22/27-17-19w2.  
 Road at reservoir section 2-17-19w2.  
 North of section 32-17-19w2.  
 Craven to Pie-a-pot's Reserve.  
 East of sections 24, 25 and 36-43-20w2.  
 Between sections 12/13-44-19w2, west 3 miles.  
 Between sections 23/26-17-20w2.  
 Approaches to bridge between sections 31/32-17-20w2.  
 Approaches to bridge between sections 22/27-17-20w2.  
 Roads in L.I.D. 109.  
 Approaches to bridge in section 33-19-21w2.  
 Approaches to bridge between sections 23/24-20-21w2.  
 North of section 32-20-21w2.  
 Craven to Strassburg.  
 Between sections 23/24-21-21w2, south 2 miles, east 1 mile.  
 Between sections 32/33-21-21w2, south to Wright's ravine.  
 Approaches to bridge between sections 27/34-26-21w2.  
 Between sections 15/16-27-21w2, north 4 miles,

Between sections 3/4, 9/10-28-21w2.  
 Between sections 4/5-17-22w2.  
 Roads in L.I.D. 95.  
 Between sections 12/13, 11/14-44-22w2.  
 Between sections 3/4, 9/10-15-23w2.  
 Between sections 29/30-15-23w2.  
 Between sections 19/30-16-23w2.  
 East of sections 24 and 25-16-24w2.  
 Between sections 24/25-16-24w2.  
 Between sections 24/25-17-23w2, west.  
 Dewdney street.  
 Marieton to Silton.  
 Pengarth to Marieton.  
 Adam's crossing to Birch hills.  
 Markley's crossing.  
 Prince Albert to Steep creek.  
 Prince Albert to Markley's crossing.  
 Approaches to bridge between sections 14/15-15-25w2.  
 Between sections 8/9-22-26w2.  
 Rosthern to St. Peter's colony.  
 On section 4-47-26w2.  
 Red Deer hill to Prince Albert.  
 Between sections 19/30-16-27w2, east 2 miles then north 1 mile.  
 Between sections 22/27-11-27w2.  
 Roads in L.I.D. 203.  
 Between sections 7/18-19-27w2, east 6 miles.  
 East of 30, 31, 32, 33 and south of 28, 29 and 30-24-27w2.  
 Roads in Willow Bunch District.  
 Approaches to bridge on section 13-24-28w2.  
 Between sections 23/24-24-28w2.  
 Approaches to bridge north of 34-25-28w2.  
 Approaches to bridge between sections 22/27-25-28w2.  
 Road to bridge north of section 34-26-28w2.  
 On section 25-40-28w2.  
 On section 26-40-28w2.  
 Road north of Caron between sections 25/36, 26/35-17-29w2.  
 Roads in L.I.D. 215.  
 Approaches to bridge between sections 22/27-25-29w2.  
 Between sections 24/25-5-1w3.  
 Between sections 4/5-41-1w3, north 5 miles.  
 Approaches to Batoche ferry.  
 Prince Albert-Shellbrook trail.  
 East of Range 3-39w3.  
 Batoche to Fish creek.  
 Blackstrap coulee north of section 31-32-3w3.  
 French to Nutana.  
 Hague west.  
 Rosthern west.  
 Rosthern east.  
 Snake plain to Duck lake between sections 10/11, 14/15-46-3w3.  
 From section 6-48-3w3 south to Saskatchewan river.  
 Between sections 5/6-37-4w3 north 2 miles then east 2 miles.  
 Duck lake to Carlton.  
 Roads in L.I.D. 393.  
 East of range 6-36w3.  
 Saskatoon-Battleford trail.  
 Between sections 20/29, 21/28-27-5w3.  
 Between sections 4/5-27-5w3.  
 Roads in L.I.D. 280.  
 Between sections 21/22-38-6w3, south 5 miles.  
 Between sections 12/13-43-6w3, west 3 miles.  
 Between sections 19/30-39-8w3.  
 Approaches to bridge on section 5-39-10w3.  
 Swift Current to Saskatchewan river, west of sections 18/19-19-11w3.  
 On section 7-43-12w3.  
 On section 31-15-13w3.  
 Road south of Swift Current leading to C.P.R. crossing.  
 Approaches to bridge east of Swift Current.  
 On section 21-16-14w3.  
 Road from Swift Current to Battleford in township 16-14w3.  
 On section 8-17-14w3.

- In sections 5, 8 and 17-17-14w3.  
 Approaches to ferry at Saskatchewan Landing.  
 Bresaylor to Battleford.  
 On section 19-10-22w3.  
 Battleford-Lloydminster trail.  
 On section 30-10-23w3.  
 Maple creek to Skull creek, between sections 23/26-10-24w3.  
 On section 25-10-24w3.  
 Between sections 19/30 and on 29-10-24w3.  
 Between sections 9/16-11-25w3,  
 S.E. of section 6-11-25w3.  
 North of section 33-10-25w3.  
 Maple creek to The Gap.  
 Between sections 10/11-13-36w3.  
 On section 23-14-26w3.  
 Battleford to Jack Fish lake.  
 Maple creek to Battle creek on section 14-9-28w3.  
 Lloydminster to Fort Pitt.  
 On section 2-8-29w3.  
 Josephsburg-Elkwater trail in township 8-2w4.  
 Josephsburg-Sawmill trail in township 8-3w4.  
 Josephsburg to Irvine.  
 The Dunmore hill on the Medicine Hat-Josephsburg trail.  
 Cypress hills trail.  
 Between sections 15/16-11-3w4.  
 Approaches to bridge on section 1-8-4w4.  
 Approaches to bridge over Medicine Hat coulee on section 12-8-4w4.  
 Approaches to bridge between sections 32/33-11-5w4.  
 Porter's hill between sections 29/32-12-5w4.  
 Between sections 29/30 and in 30-12-5w4.  
 Culley coal mine trail.  
 Vegreville to Beaver lake, north of 32-51-15w4, and between sections  
 10/15-52-17w4.  
 Between sections 30/31-56-15w4, east 6 miles.  
 Edmonton to Vegreville, between sections 10/11, 21/22-52-17w4.  
 Pakan ferry landing and roads thereto.  
 Victoria to Boyne lake.  
 Approaches to bridge between sections 19/30-49-18w4.  
 Approaches to bridge east of section 24-51-18w4.  
 On sections 8 and 18-54-18w4.  
 Between sections 19/30-6-19w4.  
 Lethbridge-Stirling trail.  
 Between sections 15/16-49-19w4.  
 Between sections 11/12, 13/14-54-19w4.  
 Roads in L.I.D. 43.  
 Stoney creek hill on section 28-46-20w4.  
 North of section 31-55-20w4  
 Between sections 11/12-8-21w4.  
 Rosenroll to Stoney creek.  
 Between sections 17/18-53-21w4, north 4 miles.  
 North of township 54-21-22w4.  
 Roads in L.I.D. 17.  
 On section 36-5-22w4.  
 Between sections 23/24-5-22w4.  
 On section 16-5-22w4.  
 Between sections 24/25-5-22w4.  
 Hill west of Belly river bridge.  
 Hill east of Belly river bridge.  
 Between sections 7/18 22-22w4.  
 Roads in L.I.D. 430.  
 Rosenroll west.  
 Wetaskiwin to Gould's crossing, north of township 45-22w4.  
 Beaver lake to Edmonton.  
 Between sections 12/13, 11/14, 10/15-53-22w4.  
 Between sections 32/33-53-22w4.  
 Between sections 28/29, 20/21-54-22w4.  
 Easterly boundary of township 54-22w4.  
 Roads in L.I.D. 31.  
 Approaches to bridge on section 29-40-23w4.  
 Between sections 24/25-40-23w4, west 4 miles.  
 Between sections 15/16-44-23w4, north 4 miles.

Westaskiwin to Red Deer lake.  
 Approaches to bridge, north of section 36-44-23w4.  
 Slough on section 34-45-23w4.  
 On section 27-26-23w4.  
 On section 36-51-23w4.  
 Between sections 21/28-52-23w4.  
 Roads in L.I.D. 32.  
 Strathcona to Clover Bar.  
 Between sections 21/28-1-24-w4.  
 On section 22-1-24w4.  
 Between sections 17/18-1-24w4.  
 North of township 1-24w4.  
 Between sections 17/18, 8/17-3-24w4.  
 Between sections 24/25-3-24w4.  
 Lacombe east.  
 Ponoka to Asker north of township 42-24w4.  
 Wetaskiwin to Millett on C. & E. trail.  
 North of sections 32/33-48-24w4.  
 Roads in L.I.D. 159.  
 Between sections 1/2-51-24w4.  
 Between sections 21/22-51-24w4, north 3 miles.  
 Between sections 11/12-51-24w4.  
 Between sections 21/28-52-24w4.  
 Edmonton to Fort Saskatchewan.  
 Roads in L.I.D. 68.  
 Levelling earth along Favel's lake drain.  
 Between River Lots and township 52 west of Fulton's creek.  
 Edmonton-Athabasca Landing trail.  
 The road between Stoney plain and St. Albert trails.  
 Between sections 24/25-1-25w4.  
 Between sections 34/25-1-25w4.  
 North of section 24-2-25w4.  
 North of section 31-1-25w4.  
 Between sections 10/15-2-25w4.  
 Between sections 22/23-2-25w4.  
 Between sections 21/28-2-25w4.  
 Between sections 14/15-2-25w4.  
 Between sections 11/12-2-25w4.  
 Between sections 23/24 and on section 23-3-25w4.  
 From St. Mary's river bridge into Cardston.  
 Between sections 4/5-3-25w4.  
 Between sections 25/26-3-25w4.  
 East of section 25-8-25w4.  
 Lacombe to Lamberton, between sections 21/28, 20/21-4-25w4.  
 Morningside east, north of section 34-41-25w4.  
 Between sections 10/15, 11/14, 12/13-51-25w4.  
 Between sections 22/23-51-25w4, north 3 miles.  
 Fourteenth base line east from Edmonton.  
 Edmonton-St. Albert trail.  
 Roads in L.I.D. 52.  
 Morinville to St. Albert.  
 East of section 36-2-27w4.  
 Between sections 7/18-2-26w4.  
 Cardston to Leavitt.  
 Between sections 4/5-3-26w4.  
 North of section 33-2-26w4.  
 Between sections 13/14, 25/26-8-26w4.  
 Macleod to Porcupine hills.  
 North of township 19-26w4.  
 Ponoka to Pigeon lake in township 43-4w5.  
 Ponoka to Fairybank in township 43-26w4.  
 Easterly boundary of township 49-26w4.  
 Between sections 25/36-49-25w4, west 12 miles.  
 Easterly boundary of township 5-26w4.  
 Between sections 24/25-55-26w4, east two miles.  
 East of section 1-56-27w4.  
 Approaches to bridge on section 11-2-27w4.  
 Between sections 17/20-2-27w4.  
 Between sections 16/21-2-27w4.  
 Between sections 20/29-2-27w4.  
 Between sections 15/22, 16/17-2-27w4,



Between sections 19/20-2-27w4.  
 On sections 19 and 28-2-27w4.  
 Approaches to bridge, between sections 27/34-2-27w4.  
 Between sections 27/28-2-27w4.  
 On sections 24 and 13-2-27w4.  
 Mountain View trail on sections 19/20 and 35-2-27w4.  
 Cardston-Caldwell trail, north of township 2-27w4.  
 Approaches to bridge, between sections 32/34-2-27w4.  
 Between sections 35/36-2-27w4.  
 East of section 13-17-27w4.  
 On section 8-19-27w4.  
 North of township 19-27w4.  
 Between sections 20/29-20-27w4.  
 Between sections 22/33-23-27w4.  
 Innisfail east.  
 Penhold to Pine lake.  
 Red Deer east in township 38-27w4.  
 Roads in L.I.D. 467.  
 Blackfalds west.  
 Morningside west.  
 Between sections 13/14-2-28w4.  
 North of township 18-28w4.  
 Between sections 16/17-19-28-4, north five miles.  
 North of township 38-28w4.  
 Lacombe-Gull lake road.  
 Between sections 26/27-9-29w4.  
 Between sections 21/28-18-29w4.  
 North of section 34-17-29w4.  
 Sawyer's hill, N.E. section 22-20-29w4.  
 Between sections 4/5, 8/9-21-29w4.  
 Between sections 24/25-23-29w4.  
 North of sections 34-23-29w4.  
 Calgary-Knee Hill trail.  
 Pincher Creek-Oil Fields trail.  
 Between sections 32/33-19-1w5.  
 Between sections 21/28-19-1w5.  
 Between sections 1/12-19-1w5.  
 Between sections 22/27-19-1w5.  
 Between sections 16/17-19-1w5.  
 Okotoks-Lineham trail in township 20 ranges 1 and 2w5.  
 On section 36-21-1w5.  
 Calgary-Macleod trail south to Okotoks.  
 Mission hill near Calgary.  
 North Blackfoot trail.  
 Boulevard hill.  
 Millett to Leduc on Calgary and Edmonton trail.  
 Wetaskiwin south on C. and E. trail.  
 Approaches to Nose creek bridge on section 3-25-1w5  
 Calgary-Beaver dam trail.  
 Bowden east.  
 Bowden west.  
 Innisfail to Tindastoll.  
 Red Deer to Burnt lake.  
 Approaches to bridge between sections 34/35-40-1w5.  
 High river to Ings.  
 Road leading to Weasel Head bridge.  
 Calgary-Morley trail, north of Bow river.  
 Calgary-Nose creek trail.  
 Dog Pond creek to Olds on section 31-32-2w5.  
 Olds west and north to Red Lodge.  
 Berrydale school house to Red Lodge.  
 North of township 49-2w5.  
 Lac Ste. Anne to Edmonton.  
 Rivierre Qui Barre to Lac la Nonne.  
 Calgary-Millarville trail.  
 Calgary-Morley trail south of Bow river.  
 Between sections 11/14-25-4w5.  
 New surveyed trail from Calgary to Cochrane.  
 Between sections 20/21, 27/28-25-4w5.  
 Jumping Pond creek bridge to top of hill in township 25-4w5.  
 Cochrane south to the Elbow.

On section 27-26-4w5.

On section 3-28-4w5.

Olds west.

North of section 34-26-5w5.

Hills at Ghost river bridge, sections 14-26-6w5.

### *Ferries.*

The following ferries were operated and installed during the year:

Bow river at Blackfoot reserve.

Old Man river at Summerview.

Red Deer river at Steerford.

Saskatchewan river (north) at Battleford (steam ferry).

“ at Carlton.

“ at Elbow near Henrietta.

“ at Fort Pitt.

“ at West of Rosthern.

“ at Wingard.

“ at Victoria.

Saskatchewan river (south) at Adams.

“ at Batoche.

“ at Fish creek.

“ at Hague.

“ at Isbister's.

“ at North of Maple Creek.

“ at Medicine Hat.

“ at Saskatoon.

“ at St. Laurent.

“ at St. Louis.

“ at Saskatchewan Landing.

“ at Osler.

“ at Hanley.

The severe floods of last spring causing such high water and ice jams resulted in considerable damage to some of the ferries. New ferries were built at Clark's Crossing, Wingard and Osler. Owing to the large influx of population to the district west of Hanley, a new ferry was installed on the South Saskatchewan river about twenty-six miles west of that point. The new bridge over Old Man river at Macleod having been completed early in the season the ferry there was moved up the river to a point near Pincher creek and was a source of relief to the settlers on the north side of the river. It will be noted from the list that twenty-three ferries were operated during the season.

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### FIREGUARDS.

During 1903, 1884.54 miles of fireguard were ploughed along the Canadian Pacific Railway and branches, the Alberta Railway and Coal Company and the St Mary's River Railway. This in addition to 1119 miles of other fireguard constructed or maintained made a total of 3003.54 miles. Contracts with the railway companies were cancelled the latter part of 1903, and railway fireguarding consequently discontinued. In addition to reploughing the existing country fireguards, several miles of new guard were ploughed, the total mileage for the season of 1904 amounting to 1460.01. The ploughing of these guards was generally up to the standard specifications, viz: 16 feet in width, though in some localities two 8 foot guards were provided and grass

burned between them, this, where the nature of the country will permit, being undoubtedly a more effective guard than the one 16 foot guard, though the difficulty in getting grass burned between guards has always been a drawback. The following schedule will show the location and mileage of guards constructed and maintained during 1904:

## FIREGUARDS, 1904.

	Miles.
South of Swift Current in tps. 14/15-13/14w3 .....	15
Gull Lake fireguard .....	16.50
From Rush Lake tp. 17-10w3, to Saskatchewan river tp. 19-12w3.....	19
From Creek sec. 1-13-19w3, to Swift Current Creek sec. 4-12-18w3.....	7
From Swift Current creek sec. 30-10-20w3, to sec. 6-12-22w3 .....	18
From Swift Current creek tp. 18-12w3, to tp. 18-11w3.....	10
From C.P.R. south to line between res. 15/16w3, to Swift Current creek...	35
Crane lake fireguard .....	23
Swift Current creek to Peltiers' lake .....	41
From Crane lake in sec. 22-13-24w3, to lake in sec. 22-13-26w3 .....	12
From Swift Current creek 21-19-13w3, to re. 15w3 .....	33
From Bittern lake tp. 13-28w3, south to Maple Creek coulee trail, secs. 10/11-9-28w3. ....	18
From C.P.R. between tps. 13/14-14w3, to fireguard between Swift Current and Peltier's lake.....	28.75
From tps. 18/19-11w3, north easterly to sec. 2-21-7w3 .....	34
From Purple Springs, on line between res. 14/15, to west boundary of tp. 5	22
On north boundary of tp. 14 from Bow river to Little Bow .....	33.9
From Old Man river to Belly river tp. 9-22w4 .....	60
From C.N.P.R. to Belly river tp. 9-18w4.....	7.50
From C.N.P.R. to Belly river, res. 20/21w4.....	8
From C.N.P.R. to Belly river, res. 19/20w4.....	3.50
From C.N.P.R. to A.R.R. & C. Co. on line between res. 18/19w4.....	21
From C.N.P.R. to Belly river along west boundary of range 14.....	7
From Old Man river to Little Bow, between res. 24/25w4.....	69.30
On north boundary township 5, following line between res. 14/15w4 to Milk river .....	24
From C.N.P.R. to Belly river on the east boundary of Piegan Indian Reserve, tp. 8-26w4 to tp. 6-26w4, south to Belly river.....	25
On north boundary of tp. 12, across res. 25/26/27w4.....	14
On north boundary of tp. 9, from re. 28w3 to re. 6w4.....	48
From Irvin tp. 11-2w4 south to tp. 10-2w4.....	12
From Howell station N.E., to Saskatchewan river at north boundary tp. 14-5w4 .....	18
From Howell station to South Saskatchewan river between res. 7/8w4 .....	11
From Saskatchewan river tp. 12-9w4, to coulee 10-8w4.....	24
On west boundary of re. 2w5, from Sheep creek to High river .....	14.50
From C. & E. to Little Bow river on north boundary of tp. 14, across res. 26/27/28w4 .....	3.30
On north boundary tp. 16, across res. 28/27/26/25w4.....	22
On line between res. 24/25 from north tp. line of 14, to fireguard on north line of tp. 20-w4 .....	42
On north-east and south of township 20-27w4.....	18
From Gleichen north on the line between ranges 22/23w4 to north boundary of township 24 .....	17
On north boundary of township 26, across ranges 25/26/27/28w4.....	24
From C.P.R. to Crow Foot guard township 24-27/28w4.....	9
On line between ranges 3/4 in township 13w2.....	12.50
From section 30-20-26w2 to section 8-21-27w2.....	8
On four sides township 29-15w2.....	24
From Shepard north on line between ranges 28/29 to north of township 26 and west of C. & E. railway.....	30
From north township 26 on line between ranges 28/29w4 to Rose Bud river	60
From C. & E. to east boundary of range 20w4 near Dead Horse lake fol- lowing north boundary of township 24.....	60
From South Saskatchewan river to Many Island lake townships 13/14-2/3w4	21
From east of range 25w4 to one mile west of C. & E. following boundary of township 10-25/26/27w4.....	13
From section 9-26-2w5 to Beaver dam creek .....	15.50
On north boundary of township 23-28w4.....	60

	Miles.
From north boundary of township 24, following ranges 25/26 to Knee Hill creek in township 30.....	31
On township 22-26/27/28w4.....	19
From C.P.R. south to Bow river following line between ranges 12/13w4..	22.25
From Swift Current creek, N.E. corner section 21-19-13w3, west of fireguard on boundary of township 19-15w3.....	15
From Four Mile coulee to Battle creek and from Battle creek, in section 31-7-29w3, west to 4th meridian, to section 19-4-28w3.....	6
From line between ranges 2/3w3, following line between townships 27/28, west of sections 33/27w4.....	30
From C.P. Ry. sections 16/17-13-21w3, thence north to township line between townships 15/16, thence west to line between ranges 21/22, thence north to sand hills, say 36-16-22w3.....	24
From the South Saskatchewan river on line between townships 17/18 to the line between ranges 1/2w4, thence south to meet guard on south boundary township 13.....	36
From South Saskatchewan river to lake Enokimi following line between ranges 10/11w4 south to lake Enokimi.....	28
On line between ranges 2/3w4, from the C.P.R. north to south boundary of township 14.....	12
From Belly river to Bow river.....	17
From Big Stick lake township 8-15-28w3 to Many Island lake section 12-14-30-8.....	34
From section 35-6-29w3 to N.E. corner of township 6-29w3, thence south between ranges 28/29 to south-west corner of section 30-4-28w3.....	17
Stair fireguard section 12-13-7w4 to section 13-36-6w4.....	11

#### LOCAL IMPROVEMENT BRANCH.

Staff.....	}	1 clerk in charge. 1 cashier. 1 assistant cashier. 1 accountant 9 permanent clerks. 6 temporary clerks. 3 stenographers.
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The work of this branch in 1904 grew in a manner corresponding to the influx of population. At times when the work had become almost congested it was found necessary to engage temporary clerks in order that the various parts of the work should be completed before the end of the year.

#### SMALL DISTRICTS.

Many areas which have heretofore been in large districts were organised under the provisions of The Local Improvement Ordinance passed in November, 1903.

Following is a complete list of small districts which were formed in 1904 and the opening months of the present year.

1-A-1—Townships 1 and 2 in ranges 30 and 31 and east halves of townships 1 and 2 in range 32 all west of the first meridian. Secretary-treasurer: Wm. McBrien, Elmore, Assa.

2-A-1—Townships 3 and 4 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: Alex. McClung, Gainsboro.

3-A-1—Townships 5 and 6 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: James Akeroyd, Antler.

4-A-1—Townships 7 and 8 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: Edgar Haight, Antler.

5-A-1—Townships 9 and 10 in ranges 30 and 31 west of the second meridian. Secretary-treasurer: Kate Stableford, Lippentott.

6-A-1—Townships 11 and 12 in ranges 30 and 31 west of the first meridian. Secretary-treasurer: M. McPhee, Fleming.

7-A-1—Townships 13 and 14 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer: R. J. Phin, Moosomin, Assa.

8-A-1—Townships 15 and 16 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer: Richard Cail, Cailmount, Assa.

9-A-1—Townships 17 and 18 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer: John A. Brown, Spy Hill, Assa.

10-A-1—Townships 19 and 20 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer: C. H. Blucke, Bavelow, Assa.

11-A-1—Townships 21 and 22 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer: Henry J. Veal, Langenburg.

12-A-1—Townships 23 and 24 in ranges 30, 31 and 32 west of the first meridian.  
Secretary-treasurer: Gisli Egilson, Logberg, Assa.

13-A-1—Townships 25 and 26 in ranges 30, 31 and 32 west of the first meridian.  
Secretary-treasurer, J. L. Anderson, Castle Avery.

14-A-1—Portions east of Assiniboine river in township 27 ranges 30 and 31, township 28 range 30 and portion east of river in township 28 range 31, township 29 range 30 and portions east of river and Indian reserve in township 29 range 31 all west of the first meridian. Secretary-treasurer:

17-A-1—Townships 33 and 34 in ranges 30, 31 and 32 and portions not included in Indian reserve of township 32 range 32 all west of the first meridian. Secretary-treasurer:

18-A-1—Townships 35 and 36 in ranges 30 and 31 west of the first meridian.  
Secretary-treasurer:

1-B-1—West halves of townships 1 and 2 in range 32; township 1 and 2 in range 33 and fractions of townships 1 and 2 range 34 all west of the first meridian.  
Secretary-treasurer: P. E. Ross, Carnduff, Assa.

2-B-1—Townships 3 and 4 in ranges 32 and 33 and fractions of townships 3 and 4 in range 34 west of the first meridian. Secretary-treasurer: George Melton, Carnduff, Assa.

3-B-1—Townships 5 and 6 in ranges 32, 33 and 34 west of the first meridian.  
Secretary-treasurer: T. G. Ellis, Redvers, Assa.

4-B-1—Townships 7 and 8 in ranges 32, 33 and 34 west of the first meridian.  
Secretary-treasurer: T. W. Montgomery, Redvers, Assa.

5-B-1—Townships 9 and 10 in ranges 32, 33 and 34 west of the first meridian.  
Secretary-treasurer: Isaiah Bricker, Glen Adelaide.

6-B-1—Townships 11 and 12 in ranges 32 and 33 and fractions of townships 11 and 12 in range 34 west of the first meridian. Secretary-treasurer: A. H. Salmon, Riga, Assa.

7-B-1—Townships 13 and 14 in ranges 32 and 33 and fractions of townships 13 and 14 in range 34 west of the first meridian. Secretary-treasurer: K. Price, Moosomin, Assa.

8-B-1—Townships 15 and 16 in ranges 32 and 33 west of the first meridian.  
Secretary-treasurer: Thos. F. Terry, Wapella, Assa.

9-B-1—Townships 17 and 18 in ranges 32 and 33 west of the first meridian.  
Secretary-treasurer: Thos. Moore, Dongola, Assa.

10-B-1—Townships 19 and 20 in ranges 32 and 33 west of the first meridian.  
Secretary-treasurer: J. H. Riddall, Redpath, Assa.

11-B-1—Townships 21 and 22 in ranges 32 and 33 west of the first meridian.  
Secretary-treasurer: John Riglin, Riversdale, Assa.

14-B-1—Portions west of Assiniboine river of townships 27 ranges 30 and 31 and townships 28 and 29 in ranges 31 and 32 and township 27 in range 32 west of the first meridian, also fraction of townships 27, 28, 29 and 30 in range 33 west of the first meridian. Secretary-treasurer:

1-A-2—Townships 1 and 2 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: Wm. M. V. Carpendale, Oxbow, Assa.

2-A-2—Townships 3 and 4 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: W. Staples, Oxbow, Assa.

3-A-2—Townships 5 and 6 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: C. A. Chase, Oxbow, Assa.

4-A-2—Townships 7 and 8 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: C. N. Maltby, Manor, Assa.

5-A-2—Townships 9 and 10 in ranges 1 and 2, portions not included in Indian Reserve, west of the second meridian. Secretary-treasurer: S. E. Howarth, Glen Adelaide.

6-A-2—Townships 11 and 12 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: Geo. Avery, Kissina, Assa.

7-A-2—Townships 13 and 14 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: Donald McDiarmid, Benbecula.

8-A-2—Townships 15 and 16 in ranges 1 and 2 west of the second meridian.  
Secretary-treasurer: W. A. Mann, Sunnymead, Assa.

- 9-A-2—Township 17 in ranges 1 and 2 and portions south of Qu'Appelle river of township 18 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : S. A. Petchell, Forest Farm, Assa.
- 10-A-2—Portions north of Qu'Appelle river of township 18 in ranges 1 and 2 and townships 19a, 19 and 20 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : J. Donohue, Esterhazy, Assa.
- 11-A-2—Townships 21 and 22 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : M. D. Barker, Clumber, Assa.
- 12-A-2—Townships 23 and 24 in range 33 west of the first meridian and townships 23 and 24 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : Gilbert Hughes, Saltcoats.
- 13-A-2—Townships 25 and 26 in range 33 west of the first meridian and townships 25 and 26 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : M. Matheson, Stornoway, Assa.
- 14-A-2—Townships 27 and 28 in ranges 1 and 2 west of the second meridian. Secretary-treasurer : Wm. Lang, Stornoway, Assa.
- 15-A-2—Township 29 in ranges 1 and 2 township 30 in ranges 1 and 2 and township 31 in range 2 west of the second meridian and portions west of Assiniboine river of townships 30, 31 and 32 in range 32 west of the first meridian and of townships 31 and 32 in range 1 and township 32 in range 2 west of second meridian. Secretary-treasurer :
- 1-B-2—Townships 1 and 2 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : A. Mackenzie, North Portal.
- 2-B-2—Townships 3 and 4 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : D. McKnight, Frobisher, Assa.
- 3-B-2—Townships 5 and 6 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Samuel Martin, Douglaston.
- 4-B-2—Townships 7 and 8 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : A. A. Campbell, Carlyle, Assa.
- 6-B-2—Townships 11 and 12 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : J. P. Connell, Fletwode, Assa.
- 7-B-2—Townships 13 and 14 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : W. J. White, Fitzmaurice, Assa.
- 8-B-2—Townships 15 and 16 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Jos. Cope, Broadview, Assa.
- 10-B-2—Portions not included in Indian Reserve of townships 18 and 19a in ranges 3 and 4 and townships 19 and 20 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Wm. Granville, Dubuc, Assa.
- 11-B-2—Townships 21 and 22 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Gwilym Lewis, Llewelyn, Assa.
- 12-B-2—Townships 23 and 24 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : H. H. Watts, Crescent Lake.
- 13-B-2—Townships 25 and 26 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Thos. A. Waterfield, Yorkton.
- 14-B-2—Townships 27 and 28 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : G. Gabert, Ebenezer, Assa.
- 15-B-2—Townships 29 and 30 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : M. Gabora, Yorkton, Assa.
- 16-B-2—Townships 31 and 32 in ranges 3 and 4 west of the second meridian. Secretary-treasurer :
- 17-B-2—Townships 33 and 34 in ranges 3 and 4 west of the second meridian. Secretary-treasurer : Wm. Jones, Plateau, Assa.
- 1-C-2—Townships 1 and 2 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : Robert Dunbar, North Portal.
- 2-C-2—Townships 3 and 4 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : H. W. Breeze, Roseview, Assa.
- 3-C-2—Townships 5 and 6 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : A. C. Moynes, Roseview, Assa.
- 4-C-2—Townships 7 and 8 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : Wm. F. Tait, Kisby, Assa.
- 5-C-2—Townships 9 and 10 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : John A. Hall, Percy, Assa.
- 6-C-2—Townships 11 and 12 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : Ayton Safford, Hazelwood.
- 7-C-2—Townships 13 and 14 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : Robert Brown, Crystal Springs.
- 8-C-2—Townships 15 and 16 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : M. S. Deacon, Grenfell, Assa.
- 10-C-2—Townships 18 and 19a in Range 5 and townships 19 and 20 in ranges 5 and 6 west of the second meridian. Secretary-treasurer : David Palmer, Grayson, Assa.

- 11-C-2--Townships 21 and 22 in ranges 5 and 6 west of the second meridian.  
Secretary-treasurer :
- 12-C-2--Townships 23 and 24 in ranges 5 and 6 west of the second meridian.  
Secretary-treasurer : F. J. Stowers, Otthon, Assa.
- 13-C-2--Townships 25 and 26 in ranges 5 and 6 west of the second meridian.  
Secretary-treasurer : James B. Swallow, Willowbrook.
- 14-C-2--Townships 27 and 28 in ranges 5 and 6 west of the second meridian.  
Secretary-treasurer : Geo. Fernie, Beaverdale, Assa.
- 1-D-2--Townships 1 and 2 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : W. J. Hobbs, Estevan, Assa.
- 2-D-2--Townships 3 and 4 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : Henry Yardley, Estevan, Assa.
- 3-D-2--Townships 5 and 6 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : James Cremer, Estevan, Assa.
- 4-D-2--Townships 7 and 8 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : R. McKenzie, Stoughton, Assa.
- 5-D-2--Townships 9 and 10 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : W. F. Carefoot, Stoughton.
- 6-D-2--Townships 11 and 12 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : Archie McIndoe, Graytown, Assa.
- 7-D-2--Townships 13 and 14 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer :
- 8-D-2--Townships 15 and 16 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : J. H. Brierly, Grenfell.
- 9-D-2--Township 17 in range 6 and townships 17, 18 and 19a in ranges 7 and 8 west of the second meridian. Secretary-treasurer : G. D. Fitzgerald, Grenfell.
- 10-D-2--Townships 19 and 20 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : J. W. Redgwick, Neudorf.
- 11-D-2--Townships 21 and 22 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : Edward Sargeant, Rosemount.
- 12-D-2--Townships 23 and 24 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : John J. Ellingson, Plainville.
- 13-D-2--Townships 25 and 26 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : P. Duff, Beaverdale, Assa.
- 14-D-2--Townships 27 and 28 in ranges 7 and 8 west of the second meridian.  
Secretary-treasurer : A. C. Tracy, Theodore, Assa.
- 1-E-2--Townships 1 and 2 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : Wm. Stoll, Estevan, Assa.
- 2-E-2--Townships 3 and 4 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : M. J. Breen, Macoun, Assa.
- 3-E-2--Townships 5 and 6 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : E. Rollins, Macoun, Assa.
- 4-E-2--Townships 7 and 8 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : C. M. Gohn, Hudmore, Assa.
- 5-E-2--Townships 9 and 10 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : W. C. Carrothers, Creelman.
- 6-E-2--Townships 11 and 12 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : H. J. McDiarmid, Fillmore.
- 7-E-2--Townships 13 and 14 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : N. W. McLeod, Charing, Assa.
- 8-E-2--Township 15 in ranges 9, 10 and 11 and township 16 in ranges 9 and 10 west of the second meridian. Secretary-treasurer : Wm. Green, Wolseley, Assa.
- 9-E-2--Townships 17, 18 and 19a in ranges 9 and 10 west of the second meridian. Secretary-treasurer : W. P. Osler, Wolseley, Assa.
- 10-E-2--Townships 19 and 20 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : Wm. Jolly, Lemberg, Assa.
- 11-E-2--Townships 21 and 22 in range 9, township 21 in range 10, and portions not included in Indian Reserve of township 22 in range 10 west of the second meridian. Secretary-treasurer : John Teece, Lorlie.
- 15-E-2--Townships 29 and 30 in ranges 9 and 10 west of the second meridian.  
Secretary-treasurer : J. F. Odell, Sheho.
- 2-H-2--Townships 3 and 4 in ranges 11 and 12 west of the second meridian.  
Secretary-treasurer : J. H. Holmes, Macoun.
- 3-H-2--Townships 5 and 6 in ranges 11 and 12 west of the second meridian.  
Secretary-treasurer : W. H. Smith, Halbrite.
- 4-H-2--Townships 7 and 8 in ranges 11 and 12 west of the second meridian.  
Secretary-treasurer : F. A. Hunter, Halbrite.
- 5-H-2--Townships 9 and 10 in ranges 11 and 12 west of the second meridian.  
Secretary-treasurer : Walter Stewart, Fillmore.

6-H-2—Townships 11 and 12 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: J. E. Keeler, Osage.

7-H-2—Townships 13 and 14 in ranges 11 and 12 and township 14 in range 13 west of the second meridian. Secretary-treasurer: J. H. Huffman, Osage.

11-H-2—Townships 20 and 21 in range 11, townships 21 and 22 in range 12, and portions not included in Indian Reserve of township 22 in range 11, portions north and east of Qu'Appelle river and lakes of township 20 in range 12 west of the second meridian and portions north of Qu'Appelle river of townships 19 and 19a in range 11. Secretary-treasurer: J. A. Balfour, Balcarres, Assa.

14-H-2—Townships 27 and 28 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: T. G. Gates, Maltby, Assa.

15-H-2—Townships 29 and 30 in range 11 and 12 west of the second meridian. Secretary-treasurer: Leeson Kidd, Foam lake, Assa.

16-H-2—Townships 31 and 32 in ranges 11 and 12 west of the second meridian. Secretary-treasurer: R. E. Coupland, Foam Lake, Assa.

3-J-2—Townships 5 and 6 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Wm. Pepper, Weyburn, Assa.

4-J-2—Townships 7 and 8 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: J. McTaggart, Weyburn, Assa.

5-J-2—Townships 9 and 10 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: J. W. Smith, box 20, Weyburn, Assa.

6-J-2—Townships 11, 12 and 13 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: John Simpson, Tyvan, Assa.

11-J-2—Portion south of Qu'Appelle river of township 20 in range 12 and townships 20, 21 and 22 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: W. M. Thomson, Fort Qu'Appelle, Assa.

12-J-2—Townships 23 and 24 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Jos. A. Atkinson, Lipton, Assa.

16-J-2—Townships 33 and 34 in ranges 13 and 14 west of the second meridian. Secretary-treasurer: Wm. Bole, Wadena Lake, Assa.

4-M-2—Townships 7 and 8 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: R. F. May, Weyburn, Assa.

5-M-2—Townships 9 and 10 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: James Smith, Yellow Grass, Assa.

6-M-2—Townships 11, 12 and 13 in ranges 15 and 16 west of the second meridian. Secretary-treasurer: John J. Nicol, Yellow Grass, Assa.

11-M-2—Portions not in Indian Reserve of township 21 in ranges 15, 16 and 17 and township 22 in ranges 15, 16 and 17 west of the second meridian. Secretary-treasurer: F. S. Proctor, Loon Creek, Assa.

21-M-2—Townships 43 and 44 in ranges 15 and 16, west of the second meridian. Secretary-treasurer: C. J. Lutes, Tisdale, Sask.

5-N-2—Townships 9 and 10 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. Murray, Yellow Grass, Assa.

6-N-2—Townships 11 and 12 in ranges 17 and 18 west of the second meridian. Secretary-treasurer:—S. C. Wright, Lang, Assa.

7-N-2—Townships 13 and 14 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: J. J. McDonough, Milestone, Assa.

8-N-2—Townships 15 and 16 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. F. McGregor, Regina, Assa.

9-N-2—Townships 17 and 18 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Thos. D. Kemp, Balgonie, Assa.

10-N-2—Townships 19 and 20 ranges 17 and 19 and township 19 in range 18 west of the second meridian. Secretary-treasurer: W. H. Davis, Foxleigh, Assa.

21-N-2—Townships 43 and 44 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Jos. A. Grainger, Melfort, Sask.

22-N-2—Townships 45 and 46 in ranges 17 and 18 west of the second meridian. Secretary-treasurer: Walter Starkey, Star City, Sask.

6-P-2—Townships 11 and 12 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: G. A. Sylte, Milestone, Assa.

7-P-2—Townships 13 and 14 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: John A. Weir, Wilcox, Assa.

8-P-2—Townships 15 and 16 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: J. C. Moore, Regina, Assa.

9-P-2—Townships 17 and 18 in ranges 19 and 20 west of the second meridian. Secretary-treasurer: S. Chivers-Wilson, Regina, Assa.

10-P-2—Townships 19 and 20 in ranges 20 and 21 west of the second meridian. Secretary-treasurer: Jas. Russell, Craven, Assa.

12-P-2—Townships 23 and 24 in ranges 19 and 20 west of the second meridian. Secretary-treasurer:

13-P-2—Townships 25 and 26 in ranges 19 and 20 west of the second meridian. Secretary-Treasurer: Hugh Holmes, Strassburg, Assa.



- 21-P-2--Townships 43 and 44 in ranges 19 and 20 west of the second meridian.  
Secretary-treasurer: J. N. Irvine, Pleasant Valley, Sask.
- 22-P-2--Townships 45 and 46 in ranges 19 and 20 west of the second meridian.  
Secretary-treasurer: John Kerr, Melfort, Sask.
- 7-R-2--Townships 13 and 14 in ranges 21 and 22 west of the second meridian.  
Secretary-treasurer: G. L. McKee, Rouleau, Assa.
- 8-R-2--Townships 15 and 16 in ranges 21 and 22 west of the second meridian.  
Secretary-treasurer: C. B. Hastings, Rouleau, Assa.
- 9-R-2--Townships 17 and 18 in ranges 21, 22 and 23 west of the second meridian.  
Secretary-treasurer: Ed. Oliver, Pense, Assa.
- 10-R-2--Townships 19 and 20 in ranges 22 and 23 west of the second meridian.  
Secretary-treasurer: John Martin, Glen Valley, Assa.
- 12-R-2--Townships 23 and 24 in ranges 21 and 22, township 24 in range 23 and portions east of Last Mountain lake of township 23 in range 23 and township 24 in range 24 all west of the second meridian. Secretary-treasurer, J. A. House, Strassburg, Assa.
- 18-R-2--Townships 37 and 38 in ranges 21 and 22 west of the second meridian.  
Secretary-treasurer: John J. Ecker, Muenster, Sask.
- 19-R-2--Townships 39 and 40 in ranges 21 and 22 west of the second meridian.  
Secretary-treasurer: F. X. Strueby, Dead Moose Lake, Sask.
- 22-R-2--North half of township 44 in range 21, township 45 in ranges 21 and 22, fractions of township 46 in ranges 21 and 22, township 45 in range 21a and township 45a in range 22 west of the second meridian. Secretary-treasurer: J. S. Forsyth, Kinistino, Sask.
- 23-R-2--Townships 47 and 48 in range 21, portion south of river of township 49 in range 21, east half of township 47 in range 22 and portion south and east of river of east halves of townships 48 and 49 in range 22 west of the second meridian. Secretary-treasurer: Geo. Manson, Weldon, Sask.
- 24-R-2--Portions south of Saskatchewan river of west halves of townships 47 and 48 in range 22, township 47 in range 23, portion south of river of township 48 in range 23, portions south and east of river not included in Indian Reserve of townships 47 and 48 in range 24 and township 48 in range 24a, township 47a in ranges 24 and 25 all west of the second meridian. Secretary-treasurer: R. B. Atkinson, Kyle, Sask.
- 6-S-2--Townships 11 and 12 in ranges 23 and 24 west of the second meridian.  
Secretary-treasurer:
- 7-S-2--Townships 13 and 14 in ranges 23 and 24 west of the second meridian.  
Secretary-treasurer: Wm. L. McRorie, New Warren, Assa.
- 8-S-2--Townships 15 and 16 in ranges 23, 24 and 25 west of the second meridian. Secretary-treasurer: C. A. Mills, Pasqua, Assa.
- 9-S-2--Townships 17 and 18 in ranges 24 and 25 west of the second meridian.  
Secretary-treasurer: R. M. Johnson, Eastview, Assa.
- 12-S-2--Portions west of lake in township 23 in ranges 23 and 24, township 24 in range 24 and townships 23 and 24 in range 25 west of the second meridian.  
Secretary-treasurer:
- 18-S-2--Townships 37 and 38 in ranges 23 and 24 west of the second meridian.  
Secretary-treasurer:
- 20-S-2--Townships 41 and 42 in ranges 24 and 25 west of the second meridian.  
Secretary-treasurer: Rev. Th. Schmid, Bonne Madonne, Sask.
- 22-S-2--Townships 45 and 46 in ranges 23 and 24 west of the second meridian.  
Secretary-treasurer: George Taylor, Jr., Brancepeth, Sask.
- 23-S-2--Portions between north and south branches of Saskatchewan river of townships 48 and 49 in ranges 22 and 23, township 48 in range 24a, township 49 in range 24 and townships 47 and 48 in ranges 24 and 25 west of the second meridian. Secretary-treasurer: G. S. Reid, Cecil, Sask.
- 8-T-2--Townships 15 and 16 in ranges 26 and 27 and township 16 in range 28 west of the second meridian. Secretary-treasurer: W. T. Cunningham, Box 412, Moose Jaw, Assa.
- 9-T-2--Townships 17 and 18 in ranges 26 and 27 west of the second meridian.  
Secretary-treasurer: W. H. Smith, Moose Jaw, Assa.
- 10-T-2--Townships 19 and 20 in ranges 26 and 27 west of the second meridian.  
Secretary-treasurer: G. H. Logan, Moose Jaw, Assa.
- 12-T-2--Townships 23 and 24 in ranges 26 and 27 west of the second meridian.  
Secretary-treasurer: George Patton, Aylesbury, Assa.
- 19-T-2--Townships 39 and 40 in ranges 25 and 26 west of the second meridian.  
Secretary-treasurer: Peter Arnoldy, Alvena, Sask.
- 21-T-2--Townships 43 and 44 in ranges 25 and 26 west of the second meridian.  
Secretary-treasurer: G. R. B. Green, Domremy, Sask.
- 22-T-2--Township 46 in ranges 25 and 26, township 45 in ranges 26 and 27 including river lots, township 46 in range 27 and townships 45 and 46 in range 28

west of the second meridian. Secretary-treasurer: W. H. S. Gange, Box 96, Prince Albert, Sask.

23-T-2—Townships 47 and 48 in ranges 26 and 27 and township 47 in range 28 west of the second meridian. Secretary-treasurer: R. J. M. Sutherland, Prince Albert.

24-T-2—Townships 45 and 46a in range 25 and townships 45a and 46a in range 26 west of the second meridian. Secretary-treasurer: Ben Cook, Deer Lodge, Sask.

9-W-2—Townships 17 and 18 in ranges 28 and 29 west of the second meridian. Secretary-treasurer: James Gilmour, Caron, Assa.

10-W-2—Townships 19 and 20 in range 28 and townships 19 and 20 in ranges 29 and 30 west of the second meridian. Secretary-treasurer: A. E. Sturgeon, Caron, Assa.

12-W-2—Townships 23 and 24 in ranges 28 and 29 west of the second meridian. Secretary-treasurer: A. H. Birch, Craik, Assa.

21-W-2—Townships 43, 44, 45a and part south of Saskatchewan river of township 46a range 27 and fractions of townships 43, 44 and 45a including river lots and portion south of river and river lots of township 45 in range 28 west of the second meridian. Secretary-treasurer: Louis Schmidt, St. Louis, Sask.

17-A-3—Townships 33 and 34 in ranges 1 and 2 west of the third meridian. Secretary-treasurer: Henry Rodwell, Curzon, Assa.

21-A-3—Portions west of Saskatchewan river of township 42 in ranges 1 and 2 and township 41 in ranges 2 and 3 township 42 in range 3 and townships 41 and 42 in range 4 west of the third meridian. Secretary-treasurer: J. H. Klassen, Rosthern, Sask.

22-A-3—Portions west of the Saskatchewan river of townships 43a, 43 and 44 in range 1, townships 43a, 43 and 44 in range 2, township 43a and portion not in Indian Reserve of township 43 in range 3 all west of the third meridian. Secretary-treasurer: Seager Wheeler, Rosthern, Sask.

23-A-3—Townships 45 and south half of 46 in range 1, township 45 in ranges 2 and 3, township 46 in range 2 and portion east of Saskatchewan river of township 46 in range 3 all west of the third meridian. Secretary-treasurer: Wray Peterson, Wingard, Sask.

24-A-3—North half of township 46 and township 47 in range 1, portion south of Saskatchewan river of township 48 in range 1, township 47 and portions east of Saskatchewan river of township 48 in range 2, and portions east of Saskatchewan river of township 47 in range 3 all west of the third meridian. Secretary-treasurer: Dennis Duffy, Lily Plain, Sask.

17-B-3—Townships 32, 33 and 34 in ranges 3 and 4 west of the third meridian. Secretary-treasurer: L. Carson, Dundurn, Assa.

18-B-3—Townships 35 and 36 in ranges 3 and 4, portions east of South Saskatchewan river of townships 35 and 36 in range 5 and portions south of South Saskatchewan river of township 35 in range 6 all west of the third meridian. Secretary-treasurer: R. Maule, Nutana, Sask.

22-B-3—Portions not in Indian reserve of township 44 in range 3; township 43, portions east of Saskatchewan river of township 45 and township 44 including river lots in range 4, portions not in Indian Reserve of township 43 and portion east of Indian Reserve including river lots of township 44 and portion east of Saskatchewan river of township 43 in range 6 all west of the third meridian. Secretary-treasurer: George Nickel, Rosthern, Sask.

24-B-3—Townships 49 and 50 in ranges 3 and 4 west of the third meridian. Secretary-treasurer: M. Wurster, Shellbrooke, Sask.

13-C-3—Portions north and east of South Saskatchewan river of township 25 in ranges 5 and 6, township 26 in range 5, portion east of Saskatchewan river of township 26 in range 6 and township 26 in range 7 all west of the third meridian. Secretary-treasurer: Fred Weller, Davidson, Assa.

18-C-3—Fraction of township 36 in range 5 and portions west of Saskatchewan river of townships 35 and 36 in ranges 6 and 7 west of the third meridian. Secretary-treasurer: J. H. C. Willoughby, Saskatoon, Sask.

19-C-3—Townships 37 and 38 in ranges 5, 6 and 7 west of the third meridian. Secretary-treasurer: Paul Dekker, Saskatoon, Sask.

20-C-3—Townships 39 and 40 in ranges 5 and 6, portions south and east of Saskatchewan river of township 39 and portion east of Saskatchewan river of township 40 in range 7 west of the third meridian. Secretary-treasurer: George Schultz, Osler, Sask.

21-C-3—Townships 41 and 42 in range 5, township 41 in range 6 and portions east of Saskatchewan river of township 41 in range 7, township 42 in ranges 6 and 7 west of the third meridian. Secretary-treasurer: Jacob D. Neufeld, Waldheim, Sask.

23-C-3—Townships 45 and 46 in ranges 5 and 6 west of the third meridian. Secretary-treasurer: James Moffatt, Marcellin, Sask.

18-E-3—Townships 35 and 36 in ranges 10 and 11 west of the third meridian. Secretary-treasurer: S. Caswell, Saskatoon, Sask.

20-E-3—Portions north and east of Saskatchewan river of township 39 in ranges 10 and 11, townships 40 and 41 in ranges 10 and 11 west of the third meridian. Secretary-treasurer: E. Hingley, Great Bend, Sask.

8-J-3—Townships 15 and 16 in ranges 13 and 14 west of the third meridian. Secretary-treasurer:

21-J-3—Portions north and east of Saskatchewan river of township 40 in range 12 and township 41 in ranges 12 and 13, townships 42 and 43 in ranges 12 and 13 west of the third meridian. Secretary-treasurer: David Mitchell, Richard, Sask.

23-N-3—Townships 46 and 47 in ranges 17 and 18 west of the third meridian. Secretary-treasurer: Neil Morrison, Meota, Sask.

23-P-3—Portions south of Saskatchewan river and west of Indian Reserve of township 45 in ranges 18 and 19 and township 46 in range 18, portions not in Indian Reserve of township 45 in ranges 20 and 21 and township 46 in ranges 21, and portions south of Saskatchewan river of township 46 in range 19 and portions south and west of river of township 46 in range 20 west of the third meridian. Secretary-treasurer: Walter Tebbs, Bresaylor, Sask.

24-T-3—Townships 47 and 48 in ranges 25 and 26 west of the third meridian. Secretary-treasurer: C. S. Hall, Wirral, Sask.

5-B-4—Townships 9 and 10 in ranges 2, 3 and 4 west of the fourth meridian. Secretary-treasurer: J. Robinson, Josephsburg, Assa.

26-B-4—Townships 51 and 52 in ranges 3 and 4 west of the fourth meridian. Secretary-treasurer: Wm. Ashworth, Lloydminster, Sask.

24-H-4.—Townships 47 and 48 in ranges 11 and 12 west of the fourth meridian. Secretary-treasurer:

25-H-4—Townships 49 and 50 in ranges 11 and 12 west of the fourth meridian. Secretary-treasurer:

25-J-4—Townships 49 and 50 in ranges 13 and 14 west of the fourth meridian. Secretary-treasurer:

26-J-4—Townships 51 and 52 in ranges 12, 13 and 14 west of the fourth meridian. Secretary-treasurer: Hugh A. Glaspell, Vegreville, Alta.

27-J-4—Townships 53 and 54 in ranges 13 and 14 west of the fourth meridian. Secretary-treasurer: E. H. Wynn-McKenzie, Warwick, Alta.

28-J-4—Portions south and west of Saskatchewan river of townships 56 and 57 in range 12, townships 55 and 56 and portion south of Saskatchewan river of township 57 in range 13, township 55 and portions south of river of townships 56 and 57 in range 14 all west of the fourth meridian. Secretary-treasurer: A. M. Boutillier, Soda Lake, Alta.

21-M-4—Portions north of Battle river of townships 40 and 41 in range 15, township 42 in ranges 15 and 16, portion north and east of Battle river of township 41 in ranges 16 and 17 and portion east of river of township 42 in range 17 west of the fourth meridian. Secretary-treasurer:

22-M-4—Townships 43 and 44 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Fred Byrinten, Spring Lake, Alta.

25-M-4—Townships 49 and 50 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Chas. N. Brisbin, Vermilion Valley, Alta.

26-M-4—Townships 51 and 52 in ranges 15 and 16 and portions east of Beaver lake of townships 51 and 52 in range 17 west of the fourth meridian. Secretary-treasurer: G. W. Abbott, Vegreville, Alta.

27-M-4—Townships 53 and 54 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Peter Svorich, Kolomea, Alta.

28-M-4—Townships 55 and 56 in ranges 15 and 16 west of the fourth meridian. Secretary-treasurer: Thos. Hall, Whitford, Alta.

29-M-4—Portions south and west of Saskatchewan river of township 57 in range 15 and township 58 in ranges 15 and 16, township 57 in range 16 west of the fourth meridian. Secretary-treasurer: R. H. Mennie, Whitford, Alta.

20-N-4—Townships 39 and 40 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: T. C. Barrett, Red Willow, Alta.

21-N-4—Townships 42 in range 18, portions south and west of Battle river of township 41 in ranges 16, 17 and 18 and township 42 in range 17, portions west of Battle river of township 43 in ranges 17 and 18 all west of the fourth meridian. Secretary-treasurer: D. J. Ellsworth, Red Willow, Alta.

22-N-4—Portions north of Battle river and Dried Meat lake of townships 43 and 44 in ranges 17 and 18 and township 44 in range 19 west of the fourth meridian. Secretary-treasurer: G. W. Sawyer, Ferry Point, Alta.

23-N-4—Townships 45 and 46 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: L. H. Lewis, Heather Brae, Alta.

24-N-4—Townships 47 and 48 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: P. Iverson, Earling, Alta.

- 25-N-4—Townships 49 and 50 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: B. P. Anderson, Bardo, Alta.
- 28-N-4—Townships 55 and 56 in ranges 17 and 18 west of the fourth meridian. Secretary-treasurer: H. Belcher, Wostok, Alta.
- 29-N-4—Portions south of Saskatchewan river of townships 57 and 58 in ranges 17, 18 and 19 and township 57 in range 20 west of the fourth meridian. Secretary-treasurer: Theo. Nemirsky, Wostok, Alta.
- 30-N-4—Township 59 in ranges 16, 17 and 18, portions north of Saskatchewan river and including river lots of township 58 in ranges 16, 17 and 18 west of the fourth meridian. Secretary-treasurer: G. H. Harper, Pakan, Alta.
- 22-P-4—Township 43 in ranges 19 and 20, township 44 in range 20 and portions west of Battle river of township 44 in range 19 west of the fourth meridian. Secretary-treasurer: C. J. Hanson, Edberg, Alta.
- 23-P-4—Townships 45 and 46 in range 19 and portions north and east of Battle river of township 45 in range 20 and township 46 in ranges 20, 21 and 22 west of the fourth meridian. Secretary-treasurer: J. W. Hay, Skafse, Alta.
- 24-P-4—Townships 47 and 48 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Neele Nelson, Lake-de-May, Alta.
- 25-P-4—Townships 49 and 50 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Robt. J. Stirrett, Bardo, Alta.
- 27-P-4—Townships 53 and 54 in ranges 19 and 20 west of the fourth meridian. Secretary-treasurer: Elmer Hallberg, Ross Creek, Alta.
- 28-P-4—Townships 55 and 56 in ranges 19 and 20 and portions east of Saskatchewan river of township 55 in ranges 21 and 22 and township 56 in range 21 west of the fourth meridian. Secretary-treasurer: D. E. McLean, Star, Alta.
- 20-R-4—Townships 39 and 40 in ranges 21 and 22 west of the fourth meridian. Secretary-treasurer:
- 21-R-4—Townships 41 and 42 in ranges 21 and 22 west of the fourth meridian. Secretary-treasurer: A. W. McCullough, Whitebrush, Alta.
- 22-R-4—Townships 43 and 44 in ranges 21 and 22 and portions not in Indian Reserve of township 44 in range 23 west of the fourth meridian. Secretary-treasurer: John G. Wilcher, Lewisville, Alta.
- 23-R-4—Township 45 in range 21 and portions south and west of Battle river of township 45 in ranges 20 and 22 and township 46 in ranges 20, 21 and 22 west of the fourth meridian. Secretary-treasurer: A. E. Trussler, Highland Park, Alta.
- 24-R-4—Townships 47 and 48 in ranges 21 and 22 and portions east of Coal lake of townships 47 and 48 in range 23 west of the fourth meridian. Secretary-treasurer: E. Coleridge-Roper, Bittern Lake.
- 27-R-4—Townships 53 and 54 in range 21, township 53 in range 22, portions east of Saskatchewan river of township 54 in range 22 and portions south and east of Saskatchewan river of townships 53 and 54 in range 23 west of the fourth meridian. Secretary-treasurer: R. Harrison, Agricola, Alta.
- 28-R-4—Township 56 in range 22, townships 55 and 56 in range 23, portions west of Saskatchewan river of township 55 in range 22 and portions north and west of Saskatchewan river of township 56 in range 21 west of the fourth meridian. Secretary-treasurer: C. S. Godbout, Lamoureaux, Alta.
- 19-S-4—Township 37 in ranges 23, 24 and 25, portions south and east of Red Deer river of township 38 in range 23 and portions south of Red Deer river of township 38 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: W. J. H. Hampton, Coalbanks, Alta.
- 20-S-4—Townships 38, 39 and 40 in ranges 23 and 24 west of the fourth meridian. Secretary-treasurer: P. Russel, Bullocksville, Alta.
- 21-S-4—Townships 41 and 42 in ranges 23 and 24 west of the fourth meridian. Secretary-treasurer: Geo. De Graff, Earlville, Alta.
- 22-S-4—Townships 43 and 44 in range 26 and portions not included in Indian Reserve of township 43 in ranges 23 and 24 and townships 43 and 44 in range 25 west of the fourth meridian. Secretary-treasurer: Dr. W. Pulleyblank, Ponoka, Alta.
- 23-S-4—Townships 45 and 46 in range 23, township 46 in ranges 24 and 25, east half of township 45 in range 24 and portions west of Battle river of townships 45 and 46 in range 23 west of the fourth meridian. Secretary-treasurer: H. D. Farris, Wetaskiwin, Alta.
- 24-S-4—Townships 47 and 48 in ranges 24 and 25 and portions west of Coal lake of townships 47 and 48 in range 23 west of the fourth meridian. Secretary-treasurer: P. J. Mullen, Millet, Alta.
- 25-S-4—Townships 49 and 50 in ranges 23, 24 and 25 west of the fourth meridian. Secretary-treasurer: Wm. Douglas, Leduc, Alta.
- 26-S-4—Townships 51 and 52 in range 23, township 51 in range 24 and portions south and east of Saskatchewan river of township 52 in range 24 and townships 51 and 52 in range 25 west of the fourth meridian. Secretary-treasurer: James Grove, Strathcona, Alta.

27-S-4—Townships 53 and 54 in range 24, portions north and west of Saskatchewan river of townships 53 and 54 of range 23, portions south and east of Sturgeon river of townships 53 and 54 in range 25, portion north and west of Saskatchewan river of township 52 in range 25 and portion north and west of Sturgeon river of township 54 in range 25 west of the fourth meridian. Secretary-treasurer: Francis C. Clare, Edmonton, Alta.

28-S-4—Townships 55 and 56 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: C. McLaughlin, Namao, Alta.

29-S-4—Townships 57 and 58 in ranges 24 and 25 west of the fourth meridian. Secretary-treasurer: Ronald Morin, Legal, Alta.

10-T-4—Townships 19 and 20 in ranges 25 and 26 and portions south of Bow river of townships 21 and 22 in range 25 and to township 21 in range 26 west of the fourth meridian. Secretary-treasurer: E. A. Daggett, Dinton Alta.

15-T-4—Townships 29 and 30 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer:

16-T-4—Townships 31 and 32 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: John McAlpine, Sunny Slope, Alta.

17-T-4—Townships 33 and 34 ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: J. H. McArthur, Knee Hill Valley, Alta.

18-T-4—Townships 35 and 36 in ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: J. S. Sparks, Milverton, Alta.

19-T-4—Township 37 ranges 26 and 27, portions south of Red Deer river of townships 38 and 39 range 26, portions east of Red Deer river township 37 in range 28 and portions south and east of Red Deer river of township 38 ranges 27 and 28 and township 39 in range 27 west of the fourth meridian. Secretary-treasurer: John J. Gaetz, Red Deer, Alta.

20-T-4—Townships 39 and 40 range 25, township 40 range 26, portions north of Red Deer river of township 38 ranges 25 and 26 and township 39 range 26 west of the fourth meridian. Secretary-treasurer: James L. Storey, Laconbe, Alta.

21-T-4—Townships 41 and 42 ranges 25 and 26 west of the fourth meridian. Secretary-treasurer: W. H. Johnson, Morningside, Alta.

23-T-4—Townships 45 and 46 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: L. P. Larson, Wetaskiwin, Alta.

24-T-4—Townships 47 and 48 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: R. Sheppard, Patience, Alta.

25-T-4—Township 49 range 26, 27 and 28 and portions south of river of township 50 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: C. J. Blomquist, Calmar, Alta.

26-T-4—Townships 51 and 52 range 26, fractions of townships 51 and 52 ranges 27 and 28, and portions north of Saskatchewan river in township 50 ranges 26, 27 and 28 west of the fourth meridian. Secretary-treasurer: Geo. Sutherland, Spruce Grove, Alta.

27-T-4—Townships 53 and 54 range 26 and portions not in Indian Reserve of townships 53 and 54 range 27 west of the fourth meridian. Secretary-treasurer: William Bristow, Spruce Grove, Alta.

28-T-4—Townships 55 and 56 range 26 and portions not in Indian Reserve of townships 55 and 56 range 27 west of the fourth meridian. Secretary-treasurer: Nestor Noel, Riviere qui Barre, Alta.

29-T-4—Townships 57 and 58 ranges 26 and 27 west of the fourth meridian. Secretary-treasurer: Wm. A. Elliott, Independence, Alta.

8-W-4—Townships 15 and 16 ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Jas. T. Cooper, Nanton, Alta.

9-W-4—Townships 17 and 18 ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: H. G. Wright, Cayley, Alta.

10-W-4—Townships 19 and 20 and portion south of Bow river of township 21 in range 27, portions south and east of Bow river of townships 19, 20 and 21 in range 28 west of the fourth meridian. Secretary-treasurer: H. H. Wilson, Davisburg.

12-W-4—Townships 22 and 23 in ranges 26 and 27, south half of township 24 in ranges 26 and 27 and portion north of Bow river in township 21 ranges 26 and 27 west of the fourth meridian. Secretary-treasurer: Sanford Whitney, Langdon, Alta.

15-W-4—Townships 29 and 30 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Charles Carlin, Carstairs, Alta.

16-W-4—Townships 31 and 32 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: Wm. L. Fischer, Olds, Alta.

17-W-4—Townships 33 and 34 in ranges 27, 28 and 29 west of the fourth meridian. Secretary-treasurer: C. E. Kenny, Olds, Alta.

18-W-4—Townships 35 and 36 in range 27, township 35 and portion east of Red Deer river of township 36 in range 28 west of the fourth meridian, and

townships 35 and 36 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Ed. J. Fream, Innisfail, Alta.

20-W-4—Township 40 in ranges 27 and 28, portion west of Red Deer river of township 39 in range 27 and portions north and west of Red Deer river of township 39 in range 28 west of the fourth meridian. Secretary-treasurer: Percy B. Gregson, Blackfalds, Alta.

21-W-4—Townships 41 and 42 in ranges 27 and 28 west of the fourth meridian. Secretary-treasurer: T. C. King, Iowalta, Alta.

22-W-4—Townships 43 and 44 in ranges 27 and 28 west of the fourth meridian. Secretary-treasurer:

2-Z-4—Townships 3 and 4 in ranges 29 and 30 and township 4 in range 28 west of the fourth meridian. Secretary-treasurer: E. H. Hillier, Yarrow, Alta.

3-Z-4—Townships 5 and 6 in ranges 28, 29 and 30 west of the fourth meridian. Secretary-treasurer: A. E. Cox, Pincher Creek, Alta.

10-Z-4—Portions west of Highwood river of township 20 in ranges 28 and 29, portion south and west of Highwood river of township 21 in range 28, portion south of Bow river of township 22 in range 28 and townships 21 and 22 in range 29 west of the fourth meridian; township 20 in ranges 1, 2 and 3 west of the fifth meridian. Secretary-treasurer: E. A. Hayes, Okotoks, Alta.

12-Z-4—Townships 22 and 23 in range 28, portions north of Bow river of township 21 in range 28, portions north and east of Bow river of township 21 in range 29, portion east of Bow river of townships 22 and 23 in range 29, south halves of township 24 in ranges 28 and 29 all west of the fourth meridian; portions east of Bow river of townships 23 and 24 in range 1 west of the fifth meridian. Secretary-treasurer: P. Rochon, Shepard, Alta.

3-A-5—Townships 5 and 6 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: A. E. Cox, Pincher Creek, Alta.

4-A-5—Townships 7 and 8 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: R. H. Burn, Gillingham, Alta.

9-A-5—Township 17 ranges 2 and 3, portions south of Highwood river of townships 17 and 18 in range 1 and township 18 in ranges 2 and 3 west of the fifth meridian. Secretary-treasurer:

10-A-5—Portions west of Highwood river of township 19 in ranges 28 and 29 west of the fourth meridian; township 19 in ranges 1, 2 and 3 and portions north of Highwood river of township 18 in ranges 1, 2 and 3 west of the fifth meridian. Secretary-treasurer:

11-A-5—Townships 21 and 22 in ranges 1 and 2 and portions between Bow and Elbow rivers of township 23 in range 1 west of the fifth meridian. Secretary-treasurer: Wm. Birney, Box 233, Calgary, Alta.

12-A-5—Portion north and west of Elbow river of township 23 in range 1, portion south of Bow river of township 24 in range 1, portions south and west of Bow river of townships 24 and 25 in range 2 and township 25 in range 3, township 24 in range 3 and east half of township 24 in range 4 all west of the fifth meridian. Secretary-treasurer: Chas. Jackson, Box 690, Calgary, Alta.

13-A-5—North half of townships 24 in range 1 and portions north and east of Bow river of townships 25 and 26 range 1, townships 24, 25 and 26 in range 2 west of the fifth meridian. Secretary-treasurer: C. W. Perry, Box 422, Calgary, Alta.

14-A-5—Townships 27 and 28 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: R. L. Boyle, Crossfield, Alta.

15-A-5—Townships 29 and 30 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: M. B. Clemens, Carstairs, Alta.

16-A-5—Townships 31 and 32 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: George Price, Olds, Alta.

17-A-5—Townships 33 and 34 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: Colin Thomson, Red Lodge, Alta.

18-A-5—Portion west of Red Deer river of township 36 in range 28 west of the fourth meridian; portions north of Red Deer river of township 36 ranges 1, 2, 3 and 4 and township 35 in ranges 2, 3 and 4 west of the fifth meridian. Secretary-treasurer: M. Sweeney, Markerville, Alta.

19-A-5—Portion west of Red Deer river of township 38 in ranges 27 and 28 and township 37 in range 28 west of the fourth meridian; townships 37 and 38 in ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: L. Martin, Red Deer, Alta.

20-A-5—Townships 39 and 40 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: J. W. Shirkey, Bentley, Alta.

21-A-5—Townships 41 and 42 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer: C. H. Whitworth, Lacombe, Alta.

22-A-5—Townships 43 and 44 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer:

- 26-A-5—Townships 51 and 52 ranges 1 and 2 west of the fifth meridian.  
Secretary-treasurer : Chas. Mills, Inga, Alta.
- 27-A-5—Townships 53 and 54 in range 28 west of the fourth meridian and townships 53 and 54 ranges 1 and 2 west of the fifth meridian. Secretary-treasurer : Ed. Steffler, Spruce Grove, Alta.
- 11-B-5—Townships 21 and 22 ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : Wm. H. King, Millarville, Alta.
- 15-B-5—Townships 29 and 30 in ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : G. B. Hunter, Dog Pound, Alta.
- 16-B-5—Townships 31 and 32 ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : Walter B. Smith, Didsbury, Alta.
- 17-B-5—Townships 33 and 34 range 3, township 33 range 4, portion south of Red Deer river of township 35 in range 3, portion south and east of river of township 34 in range 4 and portion east of river of township 33 range 5 west of the fifth meridian. Secretary-treasurer : Nicholas Moor, Eagle Hill, Alta.
- 19-B-5—Townships 37 and 38 ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : J. M. Craig, Markerville, Alta.
- 20-B-5—Townships 39 and 40 in ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : A. Douglas, Evarts, Alta.
- 27-B-5—Townships 53 and 54 ranges 3 and 4 west of the fifth meridian.  
Secretary-treasurer : C. H. Dunn, Mewassin, Alta.
- 13-C-5—Township 27 ranges 5 and 6 and portions north of Bow river of township 26 ranges 5 and 6 west of the fifth meridian. Secretary-treasurer : H. Payn LeSueur, Cochrane, Alta.

Evidence of the popularity of small district organisation is shown by the large number of petitions which have been received, these petitions being, as a rule, the preparatory steps to such organisation.

At the beginning of the year the large districts were reorganised, their boundaries being made to correspond with those of the electoral districts. On account of the increased assessable area and the heavy immigration of the last few years, it was nearing the close of 1904 before all the large districts were assessed.

From large local improvement districts in 1904, local improvement taxes to the amount of \$132,643.96 were collected and the number of receipts issued 16,646.

The sum of \$25,927.69 for arrears of taxes in small districts was collected by this branch and forwarded to secretary-treasurers.

Arrears of taxes in school districts amounting to \$13,987.53 were collected and sent to school treasurers.

These amounts were paid by cheque, the number issued to small local improvement district secretary-treasurers being 2,467 and to school treasurers 1,600.

The work of correspondence in connection with these arrears, (both school and local improvement) has grown to such an extent that it comprises a large part of the duties of the branch. The failure of some secretary-treasurers to promptly forward returns from school and small local improvement districts and to notify this branch of all payments of arrears made, has entailed considerable work that otherwise would not have been necessary.

An idea of the general correspondence of the branch may be gathered from the fact that in 1904 the amount of mail matter received was 46,232 items. The amounts sent out was 124,924 items, which was composed of 21,418 letters, 22,180 receipts, 79,478 notices and circulars and 3,048 cheques.

The assessment of large districts for 1904 was as follows ;

No.	District	Amount of Assessment		Amount Collected		Amount Expended	
		\$	c.	\$	c.	\$	c.
550	Banff . . . . .	4,245	89	1,434	45	1,279	16
551	Battleford . . . . .	19,015	69	5,511	52	1,099	83
552	Batoche . . . . .	4,671	25	2,043	35	1,240	33
553	Cardston . . . . .	14,191	92	10,168	49	8,719	18
554	Cannington . . . . .	4,712	10	3,510	67	972	45
555	Calgary, East . . . . .	7,437	73	1,817	26	789	99
556	Calgary, West . . . . .	7,472	24	2,317	37	1,805	88
557	Edmonton . . . . .	760	82	190	26	583	61
558	Grenfell . . . . .	2,090	90	1,456	71	1,133	95
559	High River . . . . .	6,431	32	996	47	6,311	75
560	Innisfail . . . . .	3,721	74	1,269	37	418	21
561	Kinistino . . . . .	5,197	76	2,586	66	1,516	03
562	Lacombe . . . . .	8,981	52	3,062	22	957	50
563	Lethbridge . . . . .	21,416	97	6,237	69	4,905	59
564	Macleod . . . . .	15,193	15	2,183	77	478	13
565	Maple Creek . . . . .	19,230	09	15,668	42	7,136	55
566	Medicine Hat . . . . .	12,992	40	4,571	14	3,822	56
567	Mitchell . . . . .	2,260	34	377	64	573	65
568	Moosomin . . . . .	All small dist's.		48	00	400	62
569	Moose Jaw . . . . .	26,089	94	11,810	93	4,774	37
570	Prince Albert . . . . .	717	53	336	23	518	18
571	Qu'Appelle, South . . . . .	8,653	57	8,387	40	2,625	22
572	Qu'Appelle, North . . . . .	9,118	94	5,120	86	1,853	37
573	Regina, North . . . . .	7,655	80	2,896	24	719	82
574	Regina, South . . . . .	5,306	23	5,340	61	2,814	72
575	Saltcoats . . . . .	6,552	39	2,552	12	715	05
576	Saskatoon . . . . .	11,800	36	7,375	17	2,970	32
577	Souris . . . . .	7,300	46	10,830	92	950	33
578	Strathcona . . . . .	5,384	93	2,434	69	1,015	79
579	St. Albert . . . . .	2,135	67	317	89	665	75
580	Victoria . . . . .	2,702	23	627	13	2,230	30
581	Wetaskiwin . . . . .	7,439	49	2,858	87	1,241	68
582	Whitewood . . . . .	All small dist's.		485	59	407	63
583	Wolseley . . . . .	530	88	382	09	1,377	01
584	Yorkton . . . . .	8,235	60	5,441	76	1,030	56
Totals . . . . .		269,647	85	132,643	96	70,030	07

## VILLAGES.

Indicative of the growth in population, as well as the common desire for self government, is the number of villages which have been formed and also the towns which have been established. The latter are as follows: Oxbow, Qu'Appelle, Battleford, Fort Saskatchewan, St. Albert, Ponoka, Okotoks. A complete list of the villages established up to the end of 1904 is given below:—

NAME OF VILLAGE	NAME OF OVERSEER	DATE OF ESTABLISHMENT
Abernethy . . . . .	Joseph Tully . . . . .	June 22, 1904
Alameda . . . . .	J. J. Heaslip . . . . .	December 29, 1896
Balgonie . . . . .	George Hutton . . . . .	April 20, 1903
Balcarres . . . . .	John H. Murphy . . . . .	November 18, 1904
Blackfalds . . . . .	James McNicol . . . . .	June 17, 1904
Blairinore . . . . .	William A. Beebe . . . . .	September 3, 1901
Bowden . . . . .	James I. Brewster . . . . .	June 17, 1904
Broadview . . . . .	Richard Robinson . . . . .	December 23, 1898
Carievale . . . . .	M. O. Hedley . . . . .	March 11, 1903
Carlyle . . . . .	H. H. Rendall . . . . .	March 13, 1902
Carnduff . . . . .	Thomas W. Campaign . . . . .	March 29, 1899
Caron . . . . .	R. R. Campbell . . . . .	January 11, 1904



NAME OF VILLAGE	NAME OF OVERSEER	DATE OF ESTABLISHMENT
Carstairs	Robert Scott	May 15, 1903
Cayley	G. W. Wickens	August 5, 1904
Churchbridge	James Heasman	September 17, 1903
Claresholm	William Moffat	May 30, 1903
Cochrane	Dan J. Bruce	June 11, 1903
Coleman	H. N. Galer	January 7, 1904
Craik	James Parks	October 20, 1903
Davidson	Robert H. Blackmore	March 7, 1904
Didsbury	Geo. B. Sexsmith	September 24, 1901
Drinkwater	William Ansley	June 7, 1904
Duck Lake	Thomas A. Bird	December 23, 1898
Esterhazy	Geo. Wrightson	December 3, 1903
Estevan	L. A. Duncan	November 2, 1899
Fleming	W. Lemon	July 2, 1896
Forget	Adolph Huel	November 16, 1904
Francis	Jarvis T. Westgate	October 24, 1904
Frank	J. H. Farmer	September 3, 1901
Frobisher	David McKnight	July 4, 1904
Gainsboro	J. J. Sadler	May 23, 1894
Gleichen	V. I. Beaupre	January 24, 1899
Glen Ewen	David Dowkes	March 23, 1904
Grenfell	Reginald Gwynne	April 12, 1894
Hague	C. P. Unruh	August 25, 1903
Halbrite	William Scramlin	February 26, 1904
Heward	L. R. Adams	November 18, 1904
High River	W. E. G. Holmes	December 5, 1901
Innisfail	August Kremer	December 15, 1899
Irvine	Henry Vockeroth	September 17, 1905
Langenburg	James Nixon	March 27, 1903
Leavings	R. Walker Jell	July 12, 1904
Leduc	William Mogg	December 15, 1899
Lemberg	Amel Fiedelick	July 12, 1904
Lille	J. P. Guimond	February 22, 1904
Lloydminster	R. N. Blackburn	November 24, 1903
Magrath	John Lye Gibb	August 20, 1901
Macoun	E. Rollins	October 14, 1903
Manor	Philip Cooke	April 15, 1902
Melfort	Thomas Clarke	November 4, 1903
Milestone	R. B. Jones	March 11, 1903
Millet	W. F. Blades	June 11, 1903
Morinville	Philias Gaudette	August 24, 1901
Mountain View	John F. Parrish	February 13, 1902
Nanton	W. A. Chisholm	June 22, 1903
North Portal	E. R. MacPhee	November 16, 1903
Nutana	William P. Bate	October 16, 1903
Olds	W. J. Brumpton	May 26, 1896
Osler	Jacob Kliever	April 9, 1904
Penhold	N. Stewart	May 4, 1904
Pense	Dr. G. M. Ramsey	March 7, 1904
Pincher Creek	A. R. Dempster	August 18, 1898
Fort Qu'Appelle	William M. Thomson	June 2, 1898
Redvers	R. Douglas	July 9, 1904
Riverside	J. M. Lowndes	July 6, 1903
Rocanville	A. H. R. Bastien	March 23, 1904
Rosenroll	William Altvater	November 16, 1904
Rouleau	A. E. Westbrook	July 22, 1903
Rouleauville	W. R. Winter	November 2, 1899
Saltcoats	A. B. Lander	April 4, 1894
Stafford	Peter Jones	May 7, 1901
Stavely	Sydney Cooper	October 16, 1903
Stirling	Robert J. Withers	September 3, 1901
Stoughton	David Donnelly	February 4, 1904
Swift Current	Fred Jones	February 4, 1904
Tantallon	Joseph E. Paynter	June 17, 1904
Yellow Grass	Joseph W. Sprott	July 22, 1903

DRAINAGE.

During the season of 1904 four of the steam ditching machines have been in operation and a total of 45,146 ft. of drainage has been completed.

The following schedule will show where the machines have been operated and the work accomplished by each.

STEAM Ditching Machines.

- No. 1—Completed 10,900 ft. on Drain No. 110 between Strathcona and Ellerslie
- No. 2—Completed 14,850 ft. on Drain No. 4 known as Favel lake drain.
- No. 3—Completed 8,175 ft. on Drain No. 30 east of Lacombe to drain into Wolf creek.
- No. 4—Completed 11,221 ft. on Drain No. 96 east of Yellow Grass.
- No. 5—At Prince Albert (not in operation).

IRRIGATION OFFICE.

Staff.....	{	1 assistant engineer. 1 draughtsman. 1 clerk of records and correspondence clerk. 1 stenographer (temporary).
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The work of the Irrigation Office is embodied in the following schedule:

Number of letters received.....	2,310
Number of letters sent out.....	3,221
Number of forms and circulars prepared and mailed.....	2,000
Number of applications for water rights, with necessary memorials, plans and notices, examined and recorded (in duplicate) .....	85
Number of licences received and recorded (in triplicate) .....	13
Number of transfers and agreements for use of water received and recorded (in triplicate).....	179
Number of licences of occupation for right of way for irrigation works over Crown lands received and recorded .....	15
Number of returns, etc., received and recorded and placed on file respecting hydrographic records.....	610

During the past year many enquiries regarding irrigation in the Territories have been received, especially from settlers from the United States who have farmed lands under irrigation, and in consequence a large number of applications for water rights were filed and dealt with.

The Canadian Pacific Railway Company have proceeded with the construction of their scheme to divert water from the Bow river near Calgary. Substantial headworks have been constructed, and several contracts for excavation of the main irrigation canal completed.

The Alberta Railway and Irrigation Company (successors of the Canadian North West Irrigation Company) have also made extensive additions and improvements to their scheme for the diversion of water from St. Mary river, to provide for the reclamation of a large tract of land in the south-eastern portion of Alberta.

Settlement in the Territories during the past year has vastly increased, and is particularly noticeable in what is known as the semi-arid region, so sparsely settled heretofore, and the work of the Irrigation Office has increased proportionately.

Your obedient servant,  
JOHN STOCKS,

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