

1916.
NEW ZEALAND.

RAILWAYS STATEMENT

BY THE MINISTER OF RAILWAYS, THE HON. W. H. HERRIES.

MR. SPEAKER,—

In presenting the Railways Statement for the year ended 31st March, 1916, I have pleasure in announcing that, notwithstanding the exceptional circumstances existing throughout the whole year, the gross receipts amounted to £4,548,356, and exceeded the earnings for the previous year by £442,899. The following gives a summary of the results :—

	Year 1916.	Year 1915.
	£	£
Total earnings	4,548,356	4,105,457
Total expenditure	2,910,883	2,920,455
Net profit on working	£1,637,473	£1,185,002

The mileage of lines open for traffic on the 31st March was 2,970. The extensions opened during the year totalled 15 miles 36 chains. The capital cost of all lines open for traffic, including the steamers and plant on Lake Wakatipu, advanced from £34,133,825 to £34,857,882.

The net revenue amounted to £1,637,473, and is equal to a return of 4·72 on the capital invested on the lines open for traffic and 4·39 on the capital (£37,335,080) invested on the opened and unopened lines.

The gross revenue (£4,548,356) exceeded the earning for the previous year by £442,899 and the estimated revenue by £548,356.

The gross receipts per train-mile from the North Island main line and branches were 112·25d., against 96·75d. last year, an increase of 15·50d. The South Island main line and branches produced a gross revenue of 117·25d. per train-mile, against 110·50d. last year, an increase of 6·75d. per train-mile.

The gross earnings per train-mile from all lines amounted to 116·50d., against 104·75d. for the previous year, an advance of 11·75d.

The expenditure for the year (£2,910,883) was £9,572 less than the preceding year and £9,117 less than the estimated amount.

The percentage of expenses to earnings was 64 per cent., against 71·14 per cent. last year, a decrease of 7·14 per cent.

The sum of £389,995 was expended under the head of "Additions to open lines" in providing additional rolling-stock, workshops machinery, car-lighting, and Westinghouse brake, telegraph and telephone and tablet facilities, duplication of lines, purchase of land, &c.

During the year 35 new locomotives, 53 carriages, 28 brake-vans, 90 bogie and 653 four-wheeled wagons were completed and put into traffic, and 52 locomotives, 36 carriages, 3 brake-vans, 148 bogie and 643 four-wheeled wagons were on order on the 31st March.

RESULTS OF WORKING.

The following is a summary of results of working, for year ending the 31st March, 1916, as compared with 1915:—

PARTICULARS.	Year ended 31st March.	
	1915.	1916.
Total miles open for traffic	2,955	2,970
Average miles open for year	2,917	2,959
Capital cost of opened and unopened lines	£36,133,155	£37,335,080
Capital cost of open lines	£34,133,825	£34,857,882
Capital cost per mile of open lines	£11,551	£11,737
Gross earnings	£4,105,457	£4,548,356
Working-expenses	£2,920,455	£2,910,883
NET PROFIT ON WORKING	£1,185,002	£1,637,473
PERCENTAGE OF PROFIT TO CAPITAL INVESTED	3·53	4·72
PERCENTAGE OF WORKING-EXPENSES TO EARNINGS	71·14	64·00
Earnings per average mile open	£1,410	£1,540
Working-expenses per average mile open	£1,002	£985
NET EARNINGS PER AVERAGE MILE OPEN	£408	£555
Earnings per train-mile	d. 104·75	d. 116·50
Working-expenses per train-mile	74·54	74·50
NET EARNINGS PER TRAIN-MILE	30·21	42·00
Passengers, ordinary	13,565,772	14,201,506
Season tickets	302,912	330,622
Goods tonnage	6,075,282	5,960,562
Live-stock tonnage	378,190	410,383
Train-mileage	9,383,420	9,356,522
Locomotives	557	585
Passenger-cars	1,397	1,452
Wagons and brake-vans	21,226	21,994

In September last a war impost was made of 1d. in each shilling on ordinary passenger-fares, and 10 per cent. on the rates for parcels and goods traffic (except timber). It is estimated that the revenue from this source up to 31st March amounted to £220,000.

It appears quite evident that the development of the natural resources which have been going on in the country for some years must result in a continuation of increase of the productivity in respect to our staple products. The fact that the receipts from the railways during the two years of war are in advance of previous years gives ground for a feeling of the greatest confidence in regard to the future.

Looking back at the railway returns over a period of years I find the record of one year broken by that of the following year. Having regard to this and the resourcefulness of the country, I anticipate a very marked increase in the railway traffic in the near future, and in order to provide for it a commencement, and in a comprehensive way, should be made with the improvements outlined in the special report of the General Manager in 1914, otherwise great difficulties will inevitably arise in dealing with the traffic. Railway business cannot be handled economically and satisfactorily by the Department unless proper facilities are available.

I estimate the revenue for the year ending 31st March, 1917, at £4,450,000, and the expenditure at £3,045,000.

SUPERANNUATION FUND.

The amount standing to the credit of the Government Railways Superannuation Fund at the end of the financial year was £362,810, an increase of £16,654 on the balance to credit to the fund on the 31st March, 1915.

The total income for the year was £118,906, and the outgoing £102,252. Of the latter sum, £83,703 represented payments to 972 members of the service who have retired voluntarily or by reason of being medically unfit, 223 widows and 305 children dependants on deceased contributors to the fund who had not retired on superannuation at the time of their death. The income from actual contributions of members totalled £78,403, or £7,936 less than the actual liability on the 31st March. The receipts are, however, supplemented by the subsidy received from the Government, £25,000, and amounts accruing from interest on funds invested and fines imposed under the regulations: these amounted to £15,503.

ANNUAL REPORT OF THE GENERAL MANAGER OF THE NEW ZEALAND GOVERNMENT RAILWAYS.

New Zealand Government Railways,

Head Office, Wellington, 21st July, 1916.

SIR,—

I have the honour to report on the working of the New Zealand railways for the financial year ended 31st March, 1916.

The total mileage of line open for traffic is 2,970 miles, an increase of 15 miles on last year's total. This is comprised of the Huntly-Awaroa line of 7 miles 43 chains and the Ward-Wharanui Extension, Pictou Section, of 7 miles 73 chains.

The capital invested in the lines open for traffic, including the plant and steamers on Lake Wakatipu, on the 31st March was £34,857,882, an increase of £724,057 when compared with the previous year.

The gross receipts amounted to £4,548,356, against £4,105,457 for the year 1915, an increase of £442,899. The net revenue amounted to £1,637,473, equal to a return of 4·72 per cent. on the capital invested in the lines open for traffic and 4·39 per cent. on the total capital invested in the opened and unopened lines.

The train-mileage for the year (9,356,522 miles) was 26,898 miles less than the preceding year. The financial year just ended, however, included an additional working-day due to leap year. Allowing for this extra day, the decrease in train-mileage is approximately 57,000 miles, representing a saving of £17,130. The saving has been effected in goods-train mileage, and is due to some extent to the decrease in the tonnage handled, but is mainly the result of economies arising from grade improvements and the employment of a greater number of heavy and powerful locomotives, enabling trains to take increased tonnage over busy sections of the line. Further economy in operating will be effected as the projected grade easements are extended.

Heavy floods and extensive slips on various portions of the system caused disorganization and serious delays to trains in June, July, September, and November.

On the 19th June a slip near Puketutu caused four and a half hours' delay to the Auckland-Wellington express and two other trains. A work-train engaged in clearing the road ran into the slip and was derailed. On the 10th July slips near Konini caused derailment of engine and two cars of passenger-train and a delay of three hours and a half. A slip near Maharahara caused four hours' delay; washout near Cliff Road, three hours' delay. On same date slips blocked the Toko Branch, which was not cleared till the 12th July. On the 11th July slips near Te Kuiti stopped traffic for several hours, causing a delay of nine hours to express Auckland to Wellington, and three hours to Wellington-Auckland express. Slips on Toko Branch caused complete suspension of traffic from the 21st July till the 24th July, when train-running was resumed from Stratford to Douglas. The portion of the line between Douglas and Pohokura was not reopened till the 29th July, and communication with Whangamomona was not restored till the 7th August. On the 21st July slips occurred between Mangaroa and Summit. On the 22nd July slips between Taihape and Mataroa delayed traffic for eight hours. On the 22nd, 23rd, and 24th July floods and slips disorganized traffic between Taumarunui and Otorohanga: through traffic was restored on the 25th July. On the 17th September and 5th, 6th, and 7th November trains on the Wairarapa line were delayed by slips and floods. On the 11th and 12th November slips and washouts at Puketutu and Porootarao caused several hours' delay to the train services. On the 16th November Rakaia Bridge was damaged by floods, and passengers had to be transferred while repairs were being effected: these were completed by midday on the 18th November. The East and West Coast line was damaged by floods near Otira on the 16th November, and passengers had to be transferred by coaches up to the 23rd November. A washout at Cass necessitated transhipment of passengers from the 17th to the 30th November. Slips on the State Collieries line near Rewanui commenced on the 9th July, and continued intermittently until the 13th December.

The following figures, which give the record of the late arrival of the principal trains during the year, indicate that, despite the difficulties experienced in connection with slips and other unforeseen circumstances, the trains have as a whole kept good time:—

	Average Late Arrival.	
	Min.	Min.
Long-distance passenger-trains	2·13	1·40
Suburban trains	0·38	0·36
Long-distance mixed trains	2·73	2·09

The number of ordinary passengers carried during the year was 14,201,506, an increase of 635,734 on the previous year's business. Season tickets issued numbered 330,622, an increase of 27,710. Workers' twelve-trip tickets numbered 72,054, and workers' weekly tickets issued on suburban lines 192,339, an increase of 8,100 twelve-trip and 19,683 workers' weekly suburban over the preceding year.

Holiday excursion tickets totalled 900,091, as against 926,615 for the previous year. There was also a decrease of 16,690 in the schools, factory, and friendly-societies excursion tickets. Many annual excursions have been discontinued temporarily owing to the war, and several school excursions were abandoned this year owing to a prevailing epidemic.

The total traffic under the head of "Coaching," which includes parcels, horses, carriages, and dogs, was 1,488,806, an increase of 2,829 on the total for last year.

The total goods tonnage was 5,960,562, a decrease of 114,720 tons when compared with the previous year.

The increases were as follows:—

Drays	..	..	..	..	..	316
Cattle	..	..	..	..	..	57,310 head ;
Sheep	..	..	..	..	..	281,520 head ;
Pigs	..	..	..	..	..	19,288 head ;
Chaff, lime, &c.	..	..	..	..	..	72,712 tons ;
Timber	..	..	..	..	..	3,903 tons ;
Merchandise..	..	..	..	..	..	29,476 tons ;

and the decreases were—

Wool	..	..	..	..	..	7,369 tons ;
Firewood	..	..	..	..	..	16,008 tons ;
Grain	..	..	..	..	..	41,365 tons ;
Minerals	..	..	..	..	..	156,069 tons.

The increase in the cattle traffic is due to the movement of horses for military purposes, the transport of stock for depasturing owing to drought, and the increased demand for beef for export. The increase in the number of sheep carried, largely due to the movement of flocks for depasturing purposes owing to the drought and the long continuation of the dry season, resulted in considerable numbers of the sheep sent for depasturing being afterwards railed for slaughter and freezing instead of used for stocking farms. The erection of new freezing-works in various parts of the area served by railway has, on the other hand, caused a diversion of sheep from railway, considerable numbers of fat sheep being driven by road to local works, instead of being railed long distances to works as heretofore.

The goods tonnage decreased by 114,720 tons, due chiefly to the decline in export of coal from the West Coast ports and the reduction in quantity of road material carried for local bodies. Grain shows a falling-off, owing to lighter crops resulting from the dry season and the holding of stocks in anticipation of prices again advancing. The traffic was also affected by the difficulty experienced in obtaining manures. Chaff and lime gave a substantial increase, owing to a heavy demand for chaff in local and foreign markets at prices that were favourable to producers; and the merchandise traffic also shows an improvement.

The average number of men employed during the year was 14,968, against 14,614 for the year ended 31st March, 1915.

Twenty-four members of the Second Division were promoted to the First Division; 599 members of the permanent staff resigned, 89 retired on superannuation, 92 died, 104 were dismissed, and 1,420 engaged.

The sum of £12,565 was paid under the Workers' Compensation for Accidents Act during the year to members who sustained injuries in the execution of their duty.

The additions made to the rolling-stock during the year consisted of 28 new locomotives, 54 bogie cars, 1 petrol rail motor-carriage, 28 bogie brake-vans, 735 wagons.

Fourteen of the locomotives—viz., 4 simple superheated tender, Class AB, and 10 heavy tank, Class Ww, were built in the Government Railway Workshops; 12 simple superheated tender engines, Class Bb, by Messrs. Price (Limited), of Thames, under contract; and 10 simple superheated tender engines, Class Aa, were imported from the Baldwin Locomotive Works in America.

Eight obsolete tank engines were sold and written off and replaced by a corresponding number of the new up-to-date engines specified in the preceding paragraph. Two old cars, 2 four-wheeled brake-vans, and 43 old wagons have been sold or broken up and replaced by up-to-date stock, all of which has been paid for out of revenue. 566 tarpaulins worn out and condemned and 208 destroyed by fire have been replaced by new tarpaulins, charged against revenue.

During the year 198 modern steel axles were placed under cars, vans, and wagons in substitution for old iron axles, increasing the wagon-capacity by 2 tons each. The additional 28 locomotives taken in conjunction with boiler-renewals of locomotives in service have increased the tractive power by 9.30 per cent. The new carriages increase the seating-capacity by 2,941 passengers, or 5 per cent. The new wagons added to the stock give an increased capacity of 7,724 tons, equivalent to an addition of 1,287 ordinary 6-ton trucks, or 4.37 per cent. in carrying-capacity.

The rolling-stock actually on order and in hand on the 31st March comprised 52 locomotives—viz., 16 simple superheated tender engines, AB, 20 heavy tank type, Ww, 16 simple superheated tender engines, Bb, 37 carriages, 4 bogie brake-vans, 149 bogie and 660 four-wheeled wagons.

The rolling-stock on the Whangarei Section has been completely equipped with Westinghouse automatic air-brake, and the installation of the appliances on the Westland Section is now in hand.

The Thomas Transmission rail motor-car, to which reference was made last year, has now arrived and is to be placed in commission on the Wellington-Johnsonville line, where heavy gradients and numerous tunnels abound. When the men in charge of the operating of the car gain experience in handling it good results are anticipated.

The motor-cars on the Culverden-Hammer run continue to do good service.

The steamer service on Lake Wakatipu has been efficiently maintained. The appointment of an officer in charge who has had experience in shipping traffic has been beneficial, but notwithstanding this the traffic does not show any material advance. It will therefore be necessary to review the rates operating, with the object of obtaining a return more commensurate with the value of the services rendered and the capital invested in the plant employed in connection with the Lake services.

The whole of the permanent-way and structures have been maintained in a satisfactory condition. The mileage of track relaid during the year was 36½ miles of main line with 70 lb. material, 9 miles of branch line with new 55 lb. material in substitution for 40 lb. metals, and 12 miles branch line with second-hand metals removed from main lines: total, 57½ miles. This is considerably below the

standard of 100 miles per annum, but in view of the impossibility of obtaining materials from abroad owing to the war, and the necessity for husbanding the very limited stock of rails on hand, it was impracticable to do more. When normal conditions again prevail it will be prudent to raise the standard distance for a year or two until the arrears are overtaken. During the year 158,223 sleepers and 406,544 cubic yards of ballast have been placed in the track. The cost of relaying the track, including respacing and replacing sleepers, is being charged to revenue.

Difficulty has been experienced in obtaining the steel required for strengthening some of the bridges. This, although unavoidable, is unfortunate, as it will retard the work in hand and delay the removal of restrictions to the use of the heavier type of locomotive on certain portions of the main lines.

A considerable number of improvements have been made in the accommodation at various stations throughout the railway system. Interlocking and signalling appliances have been extended; water-services, engine-depots, goods-sheds, and sidings and station-yards enlarged or improved to suit requirements; grade easements have been carried out in the Auckland District and between Feilding and Marton as part of the general scheme of improvement. Fixed signals have been installed at 5 additional stations, and distant signals at 52 stations. Of the total number of officered stations, 285 are equipped with fixed signals, 92 are interlocked, and 118 have yet to be dealt with.

Special switch-locks which prevent signals from being lowered unless the facing-points to which the signal applies are correctly set have been fitted to 40 stations during the year—viz., 30 in the North Island and 10 in the South Island.

The interlocking of points and signals was brought into operation at Waikumete, New Lynn, Avondale, Khandallah, Sockburn Crossing, and Port Chalmers, and additions and rearrangement made at Kioreroa Bridge, Henderson, Linwood, and Sockburn. Flag stations and sidings have been interlocked with the tablet system. The electric tablet system is now operating at 367 stations, controlling 1,620 miles of single track, and the lock-and-block operates over 44 miles of double line.

The railway telegraph and telephone systems were extended during the year and now comprise 276 Morse sets, 1,535 telephones, 253 electric bells, 2,588 miles of poles, and 6,964 miles of wire.

Automatic warning-bells have been installed at 6 level crossings, and the work for 50 more crossings is in hand.

Electric lighting has been installed at a number of stations, railway dwellinghouses, offices, and yards. An electric traverser has been installed at the new locomotive depot, Linwood, and an overhead crane at Petone Workshops.

REVENUE.

The gross revenue for the year amounted to £4,548,356, and exceeded the earnings of the previous year by £412,899 and the estimated revenue by £548,356. The particulars are as follows:—

	1916.	1915.	Increase.
	£	£	£
Passengers	1,722,702	1,482,383	240,319
Parcels, luggage, and mails	236,705	227,521	9,184
Goods	2,423,493	2,249,399	174,094
Miscellaneous, rents, &c.	165,456	146,154	19,302
	<u>4,548,356</u>	<u>4,105,457</u>	<u>442,899</u>

On the North Island main line and branches the receipts per train-mile amounted to 112.25d., against 96.75d. for the preceding year. The net revenue per train-mile amounted to 43.62d., against 28.14d. last year.

The gross receipts per train-mile on the South Island main line and branches advanced from 110.50d. last year to 117.25d. for the current year, giving a net return of 35.73d. For all lines the gross earnings per train-mile advanced from 104.75d. for 1915 to 116.50d. for the current year, an increase of 11.75d. per train-mile. The net earnings per train-mile were 42.00d., against 30.21d. for last year. The gross earnings per average mile of railway increased by £130.

The earnings from the Lake Wakatipu steamers amounted to £7,243, an increase of £392 on the earnings of the previous year.

The net revenue, £1,637,473, was equal to 4.72 per cent. on the capital invested in the lines open for traffic (£34,857,882), and 4.39 per cent. on the capital invested in the open and unopened lines (£37,335,080).

In September, 1915, the rates and charges for the conveyance of parcels and goods traffic (except timber) were increased by 10 per cent., and ordinary passenger-fares by 8½ per cent. At the same time week-end excursion tickets available from Saturday to midnight Monday were brought into operation. The latter afford opportunity for cheap travel every week-end, and there are indications that the arrangement will become popular and induce traffic; it is desirable, however, to stress the fact that the restrictions as to the use of these cheap tickets are essential to protect the Department's ordinary passenger business, and they cannot be departed from.

It is estimated that approximately £220,000 of the increase in revenue may be ascribed to the additional rates, the balance, £222,899, representing the advance that would have accrued from the traffic in the ordinary course. In view of the abnormal conditions prevailing during the past two years I do not regard it as prudent to anticipate that normal pre-war conditions will reassert themselves in the immediate future. The tendency will, I consider, be in the direction of further enhancement of prices for all railroad commodities, and to provide for this the earning-power of the service must at least be maintained at its present standard.

EXPENDITURE.

The working expenditure for the year, including £6,377 representing the cost of working Lake Wakatipu steamers, amounted to £2,910,883, a decrease of £9,572 on last year's figures. The ratio of expenditure to earnings was 64·00 per cent., against 71·14 per cent. for the preceding year, a decrease of 7·14 per cent. :—

	Expenditure.		Per Cent. of Revenue.	
	1915-16. £	1914-15. £	1915-16.	1914-15.
Traffic	889,991	870,392	19·60	21·20
Locomotive	1,160,705	1,183,013	25·56	28·82
Maintenance	740,349	738,550	16·30	17·99
Management	113,461	122,415	2·50	2·98
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Lake Wakatipu steamers	6,377	6,085	0·04	0·15
	<hr/>	<hr/>	<hr/>	<hr/>
	2,910,883	2,920,455	64·00	71·14

The increased expenditure in the Traffic Branch, Head and Departmental Offices, resulted mainly from scale increases in salaries under the Classification Act.

There has been a decrease in the Locomotive expenditure resulting from a decrease in the train-mileage consequent on the use of larger engines and completion of grade easements on busy parts of the road where heavy grades ruled heretofore.

The gross expenditure in the Maintenance Branch is slightly in excess of last year, although the expenditure per mile of railway was £251, as against £254 for the preceding year. A considerable number of works of a miscellaneous nature, and representing additions to lines, structures, and rolling-stock, costing £11,129, which might reasonably have been charged to capital, having been carried out and debited to working-expenses.

The sum of £65,444 was expended in the Maintenance Branch and charged to Capital Account under the head "Additions to open lines." These comprise additions to station buildings, workshops, and dwellings, extension of station-yards, tablet installation, telegraph and telephone facilities duplication of line, purchase of land, water-services, stock-yards, &c.

In the Locomotive Branch £324,551 was expended in the provision of additional rolling-stock, Westinghouse brake, workshops machinery, steam-heating gear, and electric light for cars. The rolling-stock in respect to which the charges were incurred include 35 locomotives, 53 carriages, 31 brake-vans, 238 bogie and 1,296 four-wheeled wagons completed on the 31st March, and 52 locomotives, 36 carriages, 3 brake-vans, 148 bogie and 643 four-wheeled wagons in hand but incomplete on that date.

The expenditure was affected by the inability of the Department to obtain delivery of supplies of material from the United Kingdom. This militated against the operations of the Department and prevented the execution of works that had been authorized. The enlistment of a considerable number of railway men for service at the front is also responsible for some of the reduction in the expenditure.

DUPLICATIONS AND GRADE EASEMENTS.

The duplication of the Parnell Tunnel was completed early in the year, and has been of considerable advantage and materially assisted traffic operations during the busy periods. The grade easements between Auckland and Mercer are well advanced, and the work has been practically completed from Runciman to Mercer, a distance of about 23 miles. The alteration of the gradients between Otahuhu and Runciman is in hand. The Kakariki deviation between Feilding and Marton is also practically completed.

The expenditure incurred in connection with these works was £37,289.

RECLAMATION AT AUCKLAND.

The reclamation of land at St. George's Bay is well in hand, the new engine-shed is in an advanced state, and extensive sidings which form a part of the new station scheme have been laid.

The expenditure incurred in connection with this work was £73,424. Negotiations with the owners of land who have been or will be disturbed by the Department's working scheme are in progress, and a number of claims have been settled by mutual arrangement.

ADVERTISING.

The control of advertising on stations by the Department is proving satisfactory. A considerable improvement is gradually being brought about in the display of notices and advertisements at stations, and satisfactory results are accruing from the point of view of business and revenue.

RAILWAY IMPROVEMENTS.

Further experience impels me to again refer to the urgent necessity that exists for proceeding with the various works referred to in my special report of 1914 and Railway Report of 1915 without

any further delay. At the outset I stressed the point that the larger works would take five years to complete, and that before that time had elapsed the business under normal conditions will have attained a magnitude that will compel provision of additional accommodation. Much valuable time has already been lost in making a commencement with the scheme. Normal conditions have not prevailed, yet notwithstanding the disturbing elements created by the war the railway business has expanded considerably. The operations of the Department are already being carried on at the main centres with difficulty and under most disadvantageous circumstances. The time lost cannot be made up, but if further delay occurs in making a comprehensive start with the works there will be grave risk of the railway facilities proving unequal to the strain put upon them by the new business offering before the works are completed.

RAILWAY MEN AT THE FRONT.

During the year a considerable number of railway men have volunteered for service with the colours abroad. The total number who have enlisted to the 31st March was 1,728. Fifty-two members have fallen in defence of the Empire up to that date. Up to the present it has not been necessary to place any restriction on enlistment by members, although the reduction in numbers in certain grades is now creating a somewhat serious problem. The names of all who answered the Empire's call are included in the roll of honour list appended hereto.

MAINTENANCE.

Mr. F. W. MacLean, Chief Engineer, reports as follows:—

The track, buildings, structures, and appliances have been maintained during the year in good working order and repair.

Permanent-way.—Relaying has been carried out during the year as follows:—

	Miles.
Main and branch lines, 53–56 lb. relaid with 70 lb. material	36½
Branch lines, 40 lb. relaid with new 55 lb. material	9
Branch lines, 40 lb. relaid with second-hand material removed from main lines	12
Total relaying for the year	57½

The reduced amount of relaying this year is due partly to the late arrival of shipments of rails from England, partly to the necessity for keeping some stocks in hand for future requirements in view of the difficulty in obtaining further supplies during the war.

The amount of relaying is considerably below what is desirable, and to overtake arrears increased expenditure in this direction will be required when conditions are normal.

Sleepers.—158,223 new sleepers were put into the track during the year. This number is also considerably below the usual rate, owing principally to the reduced amount of relaying.

Slips and Floods.—In July, 1915, extensive floods and slips occurred on the North Island Main Trunk Railway between Taihape and Te Kuiti, on the Wellington–Wairarapa Railway, the Stratford–Whangamomona Branch, and other parts of the railway system, causing considerable delays to traffic. Traffic has also been delayed by slips and washouts in other localities.

Repairs were carried out promptly and every effort made to minimize inconvenience to the public.

Extensive protective works have been carried out where damage has occurred or is anticipated.

Ballasting.—406,544 cubic yards of ballast have been placed on the track during the year.

A new ballast-pit is being opened out near Wiri.

At Te Kuiti quarry the two stone-crushers have been kept fully at work. In addition to our own requirements, stone has been supplied from this quarry for the Public Works Department and for local bodies.

At the Egmont pits a Bishop ballast-loader has been used with success. A large quantity of ballast has been supplied from this pit for the Public Works Department.

About 12,500 cubic yards of earth and sand have been deposited on the Rukuhia Swamp, which is every year becoming more consolidated.

Bridges.—Bridge structures have been maintained in safe condition.

The difficulty of obtaining structural steel has delayed some of the work of strengthening bridges which is in hand.

The use of reinforced concrete in bridge structures is being developed.

Water-services.—These have been maintained in good order, and considerable improvements effected to meet increased demands.

Wharves.—The wharves belonging to the Department have been maintained in good repair.

At Helensville about 15,000 yards have been dredged to increase the berthage available. Training-works have been carried out with a view to maintaining the increased depth at the wharf.

At Port Chalmers extensive repairs have been carried out, and the George Street pier is at present being widened.

At Westport the work of demolishing the staiths is being continued.

Buildings.—Very extensive repairs and renewals have been effected to station buildings and to dwellings, and a number of new dwellings built.

Among the more important works carried out are: Auckland—New engine-shed, well advanced; Newmarket—new car and wagon shops, well advanced; renewals and additions workshops completed; Linwood (Christchurch)—new engine shed and depot completed; East Town—tarpaulin shop rebuilt; Napier—additions to workshops and engine-sheds.

Stations.—Considerable additions have been made to the siding accommodation at stations, and a number of stations have been rearranged completely. Among the latter are Swanson; Ngaruawahia, Horotiu, and Waipahi. The arrangement of the following stations is in hand: Ohakune, Johnsonville, Te Roti, and Ashburton.

Defence Department.—During the year branch lines to the military camps at Trentham and Featherston were constructed, and sidings laid to serve the military camp at Rangiotu. A large quantity of gravel was also supplied for the Trentham and Featherston camp-sites.

Railway Improvements.—Auckland Station: The reclamation of land at St. George's Bay is well in hand. The new engine-shed is in an advanced state, and extensive sidings—part of the complete scheme—have been laid.

Parnell tunnel duplication: This work was completed early in the year.

Auckland—Mercer grade easements: This work is well advanced, and the work has been practically completed from Runciman (23 miles) to Mercer. The alteration of the gradients between Otahuhu and Runciman is in hand. Expenditure on these works during the year was £28,183.

Feilding—Marton grade easements: The Kakariki deviation is practically completed. Expenditure on the work during the year amounted to £9,106.

Additions to Open Lines.—£69,616 was spent on these works and charged to Capital Account, the principal items being the following: Signalling, interlocking, block-working, &c.; additions to station buildings, yards, and sidings at Avondale, Auckland, Ngaruawahia (part), Waipahi, Johnsonville (part), Frankton Junction, Waipara, Arahura, Trentham, New Lynn (part), Woodlands, Fordell, Wanganui, Timaru, Lambton, Tahekerua, Henderson, Tahakopa, Waianakarua, Swanson (part), Waikumete (part), Silverstream, Mangaroa, Ashburton (part), Featherston (part), Ohakune (part), Makikihi, Dunsandel (part), Hinds (part), Dromore (part), Windermere, Ika-matua, Morrinsville, Matamata, Otorohanga, Lyttelton, One Tree Point (part); additions to water-services—Te Kuiti, Mercer, Kohatu and Belgrove (part), Marton (part), Huirua, Palmerston North (part), Hinds (part); new houses—Springfield, Ohakune, Penrose, Mokoia, Awatoto, Whakatu, Tariki, Taihape, Heriot, Paremata, Taumarunui, Mangaroa, Khandallah, Pukekohe (part), Waimiha, Greytown, Frankton Junction, Clinton, Otane; purchase of land—Takanini, Mangaroa, East Town, Christchurch, Otane, Wiri, Mill Road; removing house, East Town; goods-shed, Te Mawhai; goods-shed additions, Hamilton; good-shed over discharging-road, Wanganui; extensions to verandas—Greymouth, Arthur's Pass; veranda, Waipahi (part); extension of platforms—Balclutha, Green Lane; wagon-repair shed, Frankton Junction; office for Locomotive Engineer, Greymouth; engine-depot, Linwood; additions to workshops—Newmarket, Napier, Invercargill; electric-light installation, Sawyer's Bay; slipway, Lake Wakatipu; widening Mangere Bridge over railway at Onehunga Wharf; overbridge, Penrose; engine-shed addition, Napier; alterations to locomotive depot, Thorndon; tunnel duplication at Auckland (Parnell) (part); cranes, Otorohanga, Cambridge; approach road, Waipawa; widening George Street pier, Port Chalmers; extension of sidings on Holmes Wharf, Oamaru; flood-protection, Otautau; fencing, Napier to Farndon; dredging and breastwork, Helensville Wharf (part); deviation and duplication, Ravensbourne (part); drainage, Waimate (part); facilities for gassing dining-cars, Frankton Junction; barriers on platform, Ellerslie Raecourse (part); turntable tractor, Thorndon; shunting-line, Southdown—Westfield (part); cab-portico, Invercargill; stock-yard improvements, Taihape; portable huts—Ngahere, Dunollie, Runanga, Wanganui District; widening ramp approach to station, Ellerslie; alterations to telegraph gallery, Wellington; dining-car kitchen, Palmerston North.

Miscellaneous Works.—Additions and improvements were carried out during the year amounting to £6,030, which was charged to working-expenses. The principal works were: Additions and improvements, Walton (part), Levin; siding alterations and additions, Lambton; alterations to house, Ohakune; hot-water services at houses, Ohakune; shifting houses, Carterton, Waipawa, Mangamahoe; house, Waikari; additions to stockyards, Remuera, Kurov; goods-shed additions, Dunedin; lighting stations, &c., Taihape (part), Frankton Junction (part), Lambton, Thorndon, Dunedin, Invercargill; loading-accommodation Opahi; lighting workshops, Penrose, Hillside; rifle ranges, Christchurch, Dunedin; stores for equipment of Railway Battalions, Wellington, Christchurch, Dunedin; orderly-room, Invercargill; alterations to workshops, East Town; engine-turntable, Otira; doorways in wharf-shed, Wanganui; overhead traveller, Upper Hutt; conversion of hopper wagons to ballast wagons, Auckland District.

Expenditure.—The expenditure for the year was as follows:—

Maintenance, charged to working-expenses	£	740,349
New works, charged to capital		209,370
Other Government Departments, public bodies, and private parties..		50,366
Total expenditure		£1,000,085

The maintenance expenditure amounted to £251 per mile, as compared with £254 per mile during 1914–15 and £267 per mile the previous year, or a difference of £3 and £16 per mile respectively. As a sum of £23,517, or nearly £8 per mile, was debited to maintenance for

engine-power during this year, a charge not hitherto debited, the expenditure was really £11 per mile less than in 1914–15 and £24 per mile less than in 1913–14, notwithstanding a considerable increase in the cost of most materials.

Although it is no doubt advisable to curtail expenditure at the present time to the lowest possible limits, any decrease in expenditure now must entail increased expenditure later unless the standard of maintenance is to be lowered, which I think inadvisable.

Mileage.—The mileage open for traffic on the 31st March, 1916, was 2,969 miles 77 chains. During the year 15 miles 36 chains were opened.

Lands and Leases.—Number of leases registered during the year, 554; annual rental, £4,938. Leases current at 31st March, 1916, 5,167; annual rental, £35,843. Private-siding agreements registered during the year, 68; annual rental, £1,647. Private-siding agreements current at 31st March, 1916, 387; annual rental, £8,488. Proclamations taking or giving up land, 71. Total amount of compensation paid during the year for land, £15,203.

Staff.—Maintenance Branch working staff, 3,774; office staff, 151: total, 3,925.

SIGNAL AND ELECTRICAL.

Fixed Signals at Officered Stations.

During the year five stations have been equipped with fixed signals, viz: Waianakarua, Opaki, Woodside, Rangiotu, and Silverstream.

Fifty-two stations have been equipped with distant signals in addition to their previous equipment, viz.: Wiri, Takanini, Drury, Paerata, Pukekohe, Buckland, Tuakau, Whangarata, Whangamarino, Te Kauhata, Rangiriri, Ohinewai, Huntly, Taupiri, Ngaruawahia, Horotiu, Te Rapa, Ohapo, Te Awamutu, Te Kawa, Otorohanga, Hangatiki, Puketutu, Poro-o-tarao, Mangaonoho, Hunterville, Rata, Porewa, Greatford, Halcombe, Maewa, Feilding, Bunnythorpe, Linton, Tokomaru, Shannon, Koputaroa, Levin, Ohau, Manakau, Otaki, Te Horo, Waikanāe, Paraparaumu, Plimmerton, Paremata, Porirua, Pakipaki, Burnham, Selwyn, Dunsandel, and Purakanui.

The installation of seventy-two more stations is in hand.

Total number of officered stations (including tablet stations), 495; equipped with fixed signals, 285; interlocked, 92; unequipped, 118.

Interlocking of Points and Signals.

The electric pneumatic installation has again worked satisfactorily during the past year.

The following stations have been fully equipped with signalling and interlocking, viz.: Waikumete, New Lynn, Avondale, Khandallah, Sockburn Crossing, and Port Chalmers.

The interlocking has been added to and rearranged at Kioreroa Bridge, Henderson, Linwood, and Sockburn.

The following sidings and flag-stations have been interlocked with the tablet system, viz.: Service siding near Papatoetoe; service siding near Runciman; service siding near Karaka; Waikato Co-operative Dairy Company's siding at Te Rapa; Wilson's Portland Cement Company's siding at Te Kumi; Manson and Clarke's siding near Raurimu; H. Alexander's siding near Taihape; Otaihape Farmers' Meat and Produce Company's siding and public siding at Winiata; ballast-pit siding, Ohingaiti; Kaikarangi Station; Silverhope Station; Overton Station; Cliff Road Station; Oroua and West Coast Meat and Produce Company's siding at Aorangi; J. McGill's siding at Palmerston North; Defence siding near Trentham; Norwood Station; Fairfield Station; Windermere Station; Rangitata Island Station; Arowhenua Station; Seadown Station; North Otago Agricultural and Pastoral Association's Siding near Oamaru; Shag Point Station; Bushey Station; Tumai Station; Morton Station; Omimi Station; Evansdale Station; Mihiwaka Station; St. Leonard's Station; East Gore Station; Kew Station; Fleming and Co.'s siding near Invercargill.

Ten additional stations in the South Island and thirty in the North Island have been fitted with special switch-locks interlocking the facing points with home signals.

Two switch-out tablet stations have been equipped with special locking arrangements, and the work for sixty-eight more stations is in hand.

Total stations now interlocked, 92; tramway crossings, 7; sidings and flag-stations interlocked with tablet, 78.

The installation of interlocking at Johnsonville is in preparation.

Expenditure for the year was as follows: New works, £26,138 0s. 1d.; maintenance, £9,648 2s. 2d.

Block-working (Electric Tablet).

During the year ten additional tablet instruments and nineteen miles of line have been fitted and brought into use, embracing the Longburn–Foxton Section; and Swanson, Melling, and Waianakarua have been installed as tablet stations.

The equipment of the sections Rangiora–Waikari and Hornby–Lincoln is in progress.

The total mileage now equipped with Tablet apparatus is 1,620 miles of single lines out of 2,925 miles of single line open for traffic.

Number of electric-tablet instruments now in use is 884, at 367 stations.

Automatic tablet-exchanging apparatus has been installed at four additional stations. The total now in use is 334.

Lock and Block.

The electric lock-and-block system for double-line working has worked satisfactorily.

The total mileage equipped with lock-and-block is 44 miles of double line.

Electric lock-and-block instruments in use, eighty, at thirty-six stations.

Alterations and additions have been carried out at Parnell Tunnel, Newmarket, and Linwood.

Telegraph and Telephone Facilities.

Two hundred and forty-seven miles of wire and 59 miles of poles have been erected and brought into use, also various alterations and additions have been made to improve existing lines. Several local circuits have been converted to metallic-circuit installations.

Eighty-two telephone connections to railway-wires and eight connections and ten extensions to public-telephone exchanges have been made.

Twenty-three electric bells have been installed as extension or call bells.

Totals now in use: Morse sets, 276; telephones, 1,535; electric bells, 253; miles of wire, 6,964; miles of poles, 2,588.

Electric Lighting and Power.

During the year electric lighting has been installed at five additional stations, viz.: Frankton Junction, Taihape, Linwood, Mussel Bay, and Reefton.

Ten railway dwellings have been fitted with electric light at the following stations, viz.: Locomotive Foreman's and Depot Chargeman's houses at Frankton, Stationmaster's house at Te Kuiti, Nos. 60 and 61 at Khandallah, Stationmaster's and No. 269 at Addington, Stationmasters' houses at Burke's and Wingatui, and Locomotive Foreman's house at Linwood.

Electric light has also been installed in the following buildings, &c.: Auckland, drill-yard; Parnell, signal-box and tunnel; Hawera, social hall; new paint-shop, Petone; new Morse telegraph gallery, Wellington; locomotive stores, offices, and engine-depot at Linwood; and the engine-depot at Timaru.

Additional electric lighting has been provided in goods-yards at Auckland, Lambton, and Dunedin; goods-shed at Dunedin; New Zealand Railway Engineers' Battalion store at Wellington; and railway workshops at Hillside.

Special meters were installed at Lambton and Thorndon, and three electric fans were provided in the goods-offices at Auckland.

An electric engine-traverser was installed in the new engine-depot at Linwood, and the electrical work in connection with electric motors was carried out.

The electrification of 20-ton overhead crane in the boiler-shop at Petone was also carried out during the year.

The installation of electric motors and transformers for Newmarket Workshops is in hand.

Level-crossing Automatic Warning-bells.

Automatic warning-bells have been installed at six level crossings, and the work for fifty further crossings is in hand.

Expenditure.

Particulars of expenditure on electric block working, telegraph and telephone facilities, and electric lighting for the year are as follows:—

New work—		£	s.	d.
Electric tablet-working	...	3,759	2	4
Telephone and telegraph lines	...	4,928	19	10
Electric light	...	4,925	6	9
Electric motors, cranes, &c.	...	772	2	11
Level-crossing alarms	...	376	8	4
		£14,762	0	2
Maintenance—		£	s.	d.
Electric block working and telegraph and telephone lines	...	11,052	16	7
Lines, &c., maintained by Post and Telegraph Department	...	2,967	15	0
Electric light	...	1,836	14	10
		£15,857	6	5

TRAFFIC.

Mr. H. Buxton, Chief Traffic Manager, reports as follows:—

Whangarei Section.

Revenue, £51,150; increase, £1,917.

Passengers increased 10,072, caused by the growth of population and the attendance at various patriotic functions.

Live-stock increased 7,564, and continues to increase steadily.

Goods tonnage decreased 14,000 tons, the principal item of decrease being coal, owing to the flooding of the mine.

Timber and firewood also decreased 3,000 tons, but chaff, grain, and merchandise show a slight improvement.

Kaihu Section.

Revenue, £5,884; increase, £309.

Timber traffic decreased 2,000 tons, but other classes show small increases.

Gisborne Section.

Revenue, £28,778; increase, £5,921.

The working of the Matawai extension for the whole year as against five months of last year, and the establishment of freezing-works at Waipaoa, have added considerably to the traffic, the principal items of increase being 6,800 passengers, 2,300 parcels, 25,300 head of live-stock, 4,900 tons of timber, 1,850 tons of grain and merchandise, and 10,300 tons of minerals.

North Island Main Line and Branches.

Revenue, £2,503,217; increase, £336,548.

The principal items of traffic were,—

	Number.	Number.
Passengers	8,320,440; increase,	782,507
Season tickets	204,305; ..	11,828
Parcels, &c.	749,606; ..	45,911
Live-stock	3,801,894; decrease,	124,951
	Tons.	Tons.
Goods	1,925,469; increase,	68,791

The revenue per mile of railway increased from £1,972 9s. 2d. to £2,269 8s. 5d., and per train-mile from 8s. 0½d. to 9s. 4¼.

The variations of traffic in the individual districts were approximately as under:—

Auckland.—Revenue £866,517; increase, £104,463.

Passengers increased 7,914. The small general increase in numbers is accounted for by the competition of the tramway extension to Mount Albert district, in which the railway passengers decreased by 58,000.

Season tickets increased 4,554, parcels 37,655, due chiefly to the increase of cream traffic and its division into a larger number of consignments, owing to the use of home separators.

Cattle and calves increased 7,429, sheep 2,334, and pigs 11,830. Wool increased 307 tons, merchandise 4,459 tons, and minerals 44,850 tons.

Chaff, &c., decreased 2,964 tons, firewood 450 tons, timber 5,685 tons, and grain 2,269 tons. A new line of 7½ miles from Huntly to Pukemiro Colliery was opened in December last.

Ohakune.—Revenue, £322,332; increase, £42,329.

Passengers increased 24,754 and season tickets 339, parcels 4,574. Cattle increased 8,153 and pigs 2,257, but calves decreased 1,012 and sheep 25,904. The sheep traffic is affected by the opening of freezing-works in the vicinity of Taihape early in January.

Chaff, &c., increased 1,032 tons, wool 600 tons, timber 22,886 tons, grain 1,660 tons, and merchandise 1,601 tons. Firewood decreased 2,616 tons, and minerals (road-metal) 13,900 tons.

Wanganui.—Revenue, £477,806; increase, £67,209.

Passengers increased 132,870, and season tickets 222. The increase of passengers was chiefly due to the establishment of a military camp at Rangiotu.

Parcels decreased 3,541. Cattle increased 8,765, but calves decreased 3,874. Sheep increased 59,098, and pigs 3,558. Wool increased 114 tons, grain 3,012 tons, and merchandise 15,029 tons. Firewood decreased 270 tons, timber 1,407, and minerals 3,244 tons.

Wellington.—Revenue, £836,561; increase, £122,546.

Passengers increased 616,969, season tickets 6,100, and parcels 7,223. The traffic from and to the military camps has swelled the number of passengers.

Cattle increased 12,029, calves 441, and pigs 4,722, but sheep decreased 216,000. Last year considerable numbers of sheep were moved for pasturage in the East Coast districts, but there is also a shortage for export.

Chaff increased 696 tons, grain 8,530 tons, and merchandise 4,798 tons.

Wool decreased 1,569 tons, firewood 5,310 tons, timber 5,119 tons.

Picton Section.

Revenue, £28,224; decrease, £3,184.

Passenger and parcels revenue was about the same as for the previous year, but goods and miscellaneous revenue decreased £3,211. There were decreases of 11,000 tons of chaff and 6,700 tons of grain, due to the very dry weather of the previous season. There were also decreases of 1,549 tons of merchandise and 1,757 tons of minerals, owing to shipping arrangements.

Nelson Section.

Revenue, £33,933; increase, £2,455.

Passenger revenue increased £720, parcels £39, and goods and miscellaneous receipts £1,696.

There were increases of 5,000 sheep, 1,000 tons of chaff, and 1,300 tons of timber; but firewood, grain, merchandise, and minerals decreased to some extent.

Westport Section.

Revenue, £108,452; decrease, £8,666.

Passenger and parcels revenue increased £142.

Coal decreased 107,000 tons, and pit-props 1,130 tons.

The other variations were small.

Westland Section.

Revenue, £162,735; increase, £1,660.

Passenger revenue increased £907.

The increase of season tickets, chiefly workers' twelve-trip, was 983, but passengers other than season-ticket holders decreased considerably.

Live-stock increased 3,400, and green flax 1,242 tons. Coal decreased 21,000 tons, timber 183 tons, grain 985 tons, and merchandise 717 tons.

South Island Main Line and Branches.

Revenue, £1,618,740; increase, £105,548.

The principal items were,—

	Number.	Number.
Passengers	4,823,507; decrease,	120,859
Season tickets	114,403; increase	13,856
Parcels, &c.	642,942; decrease,	45,971
Live-stock	3,601,853; increase,	440,756
	Tons.	Tons.
Goods	2,335,625; decrease,	34,368

The annual revenue per mile of railway increased from £1,095 7s. 1d. to £1,152 19s. 10d., and per train-mile from 9s. 2½d. to 9s. 9½d.

The variations of traffic in the individual districts were approximately as under :—

Christchurch.—Revenue, £708,249; increase, £15,202.

Passengers decreased 56,053.

Sheep increased 180,776.

Chaff, &c., increased 27,192 tons.

Wool decreased 6,973 tons, timber 4,796 tons, grain 92,857 tons, merchandise 7,800 tons, and minerals 14,037 tons.

The dry season affected the grain traffic.

Dunedin.—Revenue, £550,394; increase, £45,958.

Passengers decreased 26,484, while season tickets increased 10,848.

Parcels decreased 16,446. A considerable proportion of the decrease was due to the shortage of cream consignments in North Otago in consequence of the dry season.

Cattle increased by 14,000, sheep 67,000, and pigs 870.

Chaff increased 22,650 tons, timber 1,300 tons, grain 3,554 tons, and merchandise 8,988 tons.

There was a large export of chaff to Australia at the beginning of the year.

Wool decreased 283 tons, firewood 1,416 tons, and minerals 29,302 tons.

Invercargill.—Revenue, £360,097; increase, £44,388.

Passengers decreased 38,322, while season tickets increased 543.

Cattle increased 1,272, and sheep 73,127.

Chaff, &c., increased 26,172 tons (shipments to Australia), wool 106 tons, grain 43,556 tons, and merchandise 4,325 tons.

Timber decreased 3,983 tons, and minerals, chiefly road-metal, 10,078 tons.

Lake Wakatipu Steamers.

Revenue, £7,243; increase, £392.

Passengers decreased 1,090 in numbers, but increased £171 in revenue.

Parcels revenue increased £65.

The variations in goods traffic were very small. There was an increase of 263 tons of minerals from operations at the scheelite-mines.

The train services have been maintained with punctuality, as will be seen from the following table :—

Average Late Arrival of Trains, Year ended 31st March, 1916.

Year ended	Period ended													Average for Year in Minutes.
	May 1.	May 30.	June 26.	July 24.	Aug. 21.	Sept. 18.	Oct. 16.	Nov. 13.	Dec. 11.	Jan. 8.	Feb. 5.	Mar. 4.	Mar. 31.	
<i>Express and Mail Trains.</i>														
March 31, 1916	3.72	1.89	1.84	1.58	1.74	0.67	0.70	1.46	1.74	3.61	2.35	3.22	3.17	2.13
March 31, 1915	1.12	1.52	2.37	0.65	0.69	0.45	0.24	0.80	0.79	3.76	1.61	2.15	1.95	1.40
<i>Long-distance Mixed Trains.</i>														
March 31, 1916	4.13	2.71	2.29	2.29	1.78	1.38	1.40	1.65	2.58	3.14	3.10	4.13	5.18	2.73
March 31, 1915	2.40	3.35	2.51	1.21	1.23	1.36	0.77	1.23	1.45	2.55	1.99	3.30	3.85	2.09
<i>Suburban Trains.</i>														
March 31, 1916	0.44	0.34	0.48	0.34	0.22	0.28	0.33	0.51	0.22	0.61	0.42	0.37	0.44	0.38
March 31, 1915	0.52	0.63	0.84	0.27	0.13	0.15	0.16	0.33	0.21	0.43	0.30	0.34	0.36	0.36

LOCOMOTIVE.

Mr. H. H. Jackson, Chief Mechanical Engineer, reports as follows:—

The engines, rolling-stock, plant, machinery, and appliances have been maintained in thoroughly efficient working-order, details of the work done being as follows:—

Locomotives.—On the 1st April, 1915, there were 557 engines in service, and on the 31st March, 1916, there were 585 engines. Eight second-hand tank engines were sold and written off. Thirty-six new engines were added to stock. Of the new engines added to stock fourteen were built in the Government railway workshops and comprised four "*Pacific type*" simple superheated tender engines, Class AB, and ten 4-6-4 ("*Baltic type*") heavy tank engines, Class Ww; twelve 4-8-0 simple superheated heavy tender engines, Class Bb, were completed under contract with Messrs. A. and G. Price (Limited), of Thames, and ten 4-6-2 ("*Pacific type*") simple superheated tender engines were imported from the Baldwin Locomotive Works in America.

In the Government railway workshops to date 155 engines have been built, and twenty-four old locomotives have been rebuilt to modern designs.

Seven hundred and forty-one locomotives passed through the workshops during the year, the details of work done being as follows:—

Particulars.	Number and Type.						Total.
	Four-cylinder "Balanced-compound" Tender Engines.	Tender Engines.	Tank Engines.	Fell Engines.	Fairlies.		
					Single.	Double.	
Number passed through shops ...	85	234	401	5	15	1	741
Built new ... ..	...	4	10	...	...	...	14
Erected ... ..	...	10	...	...	...	...	10
Re-erected ... ..	...	...	15	...	...	...	15
Thoroughly overhauled	12	37	40	...	1	...	90
Heavy repairs	29	53	91	5	9	1	188
Light repairs	44	130	245	...	5	...	424
Painted	32	59	56	4	3	...	154
Paint touched up	26	91	44	...	4	...	165

Included in above are six engines for private lines and one engine for the Public Works Department.

At the close of the year there were under construction in the railway workshops thirty-six engines, consisting of sixteen "*Pacific type*" simple superheated tender engines, Class AB, and twenty heavy tank engines, 4-6-4 type, Class Ww. Under contract with Messrs. A. and G. Price (Limited), of Thames, there were sixteen 4-8-0 type simple superheated tender engines to complete. An order for an additional ten of these engines was placed during the year with this firm, thus increasing the contract from twenty to thirty engines. Thus at the end of the year there were altogether in hand fifty-two locomotive engines.

The new locomotives added, together with boiler renewals, increased the total tractive power by 674,629 lb., or equal to 9.30 per cent. The new engines being built and the boilers under construction will, when completed, still further materially increase the tractive power.

Boilers.—The work on new boilers, renewals, and repairs has been kept well up to date. Twenty-three new locomotive boilers were constructed.

The following statement shows details of the boiler-work done:—

Description.	Number passed through Shops.	Built new.	Heavy Repairs.	Light Repairs.	New Tubes (Sets).	Tubes pieced and Second-hand (Sets).	New Fireboxes.	New Firebox Tube-plates.	Boilers patched.
Boilers	370	23	126	221	81	36	9	11	121

Thirty-five new boilers were under construction at close of year, and comprised thirteen Class AB, two Class F, and twenty Class Ww.

Carriages.—The stock on the 1st April, 1915, consisted of 1,397 cars, and on the 31st March, 1916, the number was 1,452 cars. Two cars were sold to the Public Works Department and written off. Fifty-six new bogie cars were built, and one petrol rail-motor-car was added to stock.

The following table shows details of car-work done during the year :—

Particulars.	Number and Type of Carriages.			Total.
	Bogie.	Six-wheel.	Four-wheel.	
Number passed through shops ...	1,992	127	37	2,156
Built new ...	56	...	...	56
Converted ...	6	...	...	6
Heavy repairs ...	996	6	...	1,002
Light repairs ...	934	121	37	1,092
Painted ...	576	23	6	605
Touched up ...	597	5	2	604

Thirty-seven cars were under construction in the railway workshops at close of the year.

Brake-vans.—The number of brake-vans on the line on the 1st April, 1915, was 410, and the number on the 31st March, 1916, was 440. Thirty new bogie vans were built and added to stock, twenty-eight being additional stock and two to replace second-hand four-wheel vans sold in previous years.

The following table shows the work done on brake-vans during the year :—

Description.	Number passed through Shops.	Built new.	Heavy Repairs.	Light Repairs.	Painted.	Paint touched up.
Brake-vans ...	790	30	303	457	171	206

Four new bogie vans are under construction.

Wagons.—The wagon stock on the 1st April, 1915, consisted of 20,816 vehicles, and the number on the 31st March, 1916, was 21,554. Thirty-one worn-out wagons were broken up and written off, eight wagons were sold to the Public Works Department, and four second-hand wagons were sold to a private company. Seven hundred and seventy-three new wagons were built and added to stock. Of this number, 735 were additional stock, and the balance, thirty-eight, was to replace wagons sold and wagons worn out and written off. Eight bogie frozen-meat wagons were purchased during the year and added to stock.

The carrying-capacity of wagon stock was increased by 7,724 tons, equal to 4·37 per cent., or an equivalent of 1,287 ordinary wagons.

The following table gives particulars of work done on wagons during the year :—

Description.	Number passed through Shops.	Built new.	Rebuilt.	Converted.	Heavy Repairs.	Light Repairs.	Painted.	Touched up.
Wagons ...	20,572	773	42	20	5,419	14,318	3,183	7,234

Eight hundred and nine wagons were under construction in the railway workshops at the close of the year, and comprised 149 bogie and 660 four-wheel wagons.

Tarpaulins.—The tarpaulin stock on the 1st April, 1915, was 17,074 tarpaulins, and on the 31st March, 1916, the number was 17,282.

Two hundred and eight tarpaulins which were destroyed by fire at East Town Workshops on the 18th February, 1915, were replaced with new tarpaulins. Six new tarpaulins were made for the Public Works Department, and 566 worn-out tarpaulins were condemned and written off and replaced with a similar number of new tarpaulins.

The following table gives details of the work on tarpaulins for the year :—

Description.	Number passed through Shops.	Manufactured new.	Condemned, and replaced with New Tarpaulins.	Repaired.
Tarpaulins ...	18,865	214	566	18,085

Stationary Engines and Cranes.—The repairs and renewals during the year were as follows:—

Description.	Number passed through Shops.	Heavy Repairs.	Light Repairs.	Painted.	Touched up.	Boiler-repairs.				
						Heavy Repairs.	Light Repairs.	New Tubes (Sets).	Tubes pieced (Sets).	Boilers patched.
Hand-cranes	17	6	11	3	3	...	...	...	...	...
Steam-cranes	18	6	12	3	6	...	...	...	...	3
Stationary engines	30	...	2	1	...	8	22	2	1	10
Pile-drivers and hoisting-engines	5	3	2	...	2	...	1	...	...	...
Pneumatic cranes	2	1	1	...	...	...	...	...	...	...

Axles.—During the year 198 car, van, and wagon axles were replaced with modern steel axles: this number, however, does not include axles for new rolling-stock. The steel axles increase the carrying-capacity of each wagon by 2 tons.

Westinghouse Brake.—The work of equipping engines and rolling-stock on the Whangarei Section with the automatic quick-acting Westinghouse air-brake was completed during the year. The work on the Westland Section has been taken in hand. Efficient arrangements are in force for the examination and upkeep of the Westinghouse brake. All new engines and rolling-stock built for sections upon which the air-brake is in operation are equipped with it before being put into service.

Car-lighting.—The oil-gas manufactured at the five separate Pintsch-gas works during the year amounted to 11,248,470 cubic feet, and cost to manufacture 2s. 2·31d. per 100 cubic feet, the reduction in cost of production being due to improvements in the plant and the use of a better gas-producing oil.

On sections not provided with Pintsch gas all cars are lighted with acetylene gas.

Motor-cars.—The motor-cars in use on the Culverden—Hanmer service have been kept in good and efficient working-order.

Rail Motor-cars.—The Westinghouse petrol-electric rail motor-car put into service last year has been kept in efficient working-order and employed on suburban services. An addition to this form of traction has been made by importing a Thomas transmission-rail motor-car. The erection of this car is now in hand in the railway workshops.

Steamers.—The Railway Department's steamers on Lake Wakatipu service have been maintained in good working-order.

Renewals and Replacements.—During the year eight second-hand tank engines, two cars, and twelve wagons were sold, and thirty-one worn-out wagons were broken up and written off; also 566 worn-out tarpaulins were condemned and written off. To replace the engines and rolling-stock sold or written off one heavy tank engine, three bogie carriages, two bogie brake-vans, and thirty-eight wagons were built, and 774 tarpaulins were made. Of this number of tarpaulins, 208 were to replace tarpaulins destroyed by the fire at East Town Workshops on the 18th February, 1915. To replace the remaining engines and wagons sold or written off new stock is under construction. In accordance with the practice of the Department, the cost of replacing engines and rolling-stock sold or worn-out and written off is debited to working-expenses.

Train Running and Mileage.—This year there has been a decrease in train-mileage amounting to 26,898 miles as compared with 1914–15. This has been due to the increased use of larger engines, which take heavier loads and thereby cut down the number of special trains and double-headed trains. As more of these heavy engines are built and put into service further reduction in train-mileage is to be expected.

There has been an increase in engine-mileage of 62,901 miles as compared with 1914–15. The increase is partly due to the larger number of work-trains supplied.

The following table shows particulars of the expenditure per train-mile:—

Year.	Train-mileage.	Engine-mileage.	Cost, in Pence, per Train-mile.		
			Locomotive Branch.	Car and Wagon Branch.	Total.
1915–16	9,356,522	12,719,488	24·55	5·80	30·35
1914–15	9,383,420	12,646,587	24·42	5·84	30·26

As the increased cost per train-mile is only 0·09d., it must be considered, when all the circumstances are taken into account, as a very satisfactory year's working.

STORES

Mr. H. Baxter, Comptroller of Stores, reports as follows:—

The value of stores, material, and plant (purchased under the Railway vote) on hand at the 31st March, 1916, at the various stores, depots, and sawmills amounted to £428,065 15s. 5d., as against £418,093 19s. 11d. on the 31st March, 1915.

The value of stores on hand on account of additions to open lines amounted to £25,945 5s. 6d., as against £13,688 18s. 10d. on the 31st March, 1915.

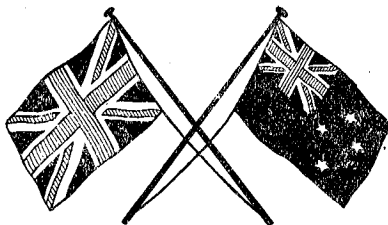
The whole of the stock is in good order, has been carefully and systematically inspected, and is valued for the amounts stated.

The conduct of the staff as a whole has been satisfactory.

The Hon. the Minister of Railways.

I have, &c.,
E. H. HILEY,
General Manager.

NEW ZEALAND GOVERNMENT RAILWAYS.



Roll of Honour.

Railway Employees who have fallen in Defence of the Empire.

Name.	Branch.	Military Unit.
Aldridge, A. G.	Traffic ..	Auckland Infantry Battalion.
Bannerman, E. I.	Locomotive ..	Wellington Infantry Battalion.
Bond, A.	Traffic ..	Auckland Infantry Battalion.
Brown, M. C.	Locomotive ..	Otago Infantry Battalion.
Bruce, H. S.	Locomotive ..	Otago Infantry Battalion.
Burke, D. P.	Traffic ..	Wellington Infantry Battalion.
Burns, A. C.	Traffic ..	Wellington Infantry Battalion.
Clark, S. G.	Traffic ..	Wellington Infantry Battalion.
Colley, W. L.	Locomotive ..	Canterbury Infantry Battalion.
Coote, P. S.	Locomotive ..	Canterbury Infantry Battalion.
Couperthwaite, P.	Maintenance ..	Otago Infantry Battalion.
Davidson, J. H.	Locomotive ..	Wellington Infantry Battalion.
Dick, H. J.	Traffic ..	N.Z. Field Engineers.
Downes, T. S.	Maintenance ..	Otago Infantry Battalion.
Findlay, J.	Maintenance ..	Otago Infantry Battalion.
Harding, L. C.	Locomotive ..	Otago Infantry Battalion.
Hastings, N. F.	Locomotive ..	Wellington Mounted Rifles.
Hayward, A. R.	Locomotive ..	Otago Infantry Battalion.
Hislop, R.	Traffic ..	Railway Engineers.
Hunter, H.	Traffic ..	Otago Infantry Battalion.
Jackson, J. G.	Traffic ..	Wellington Infantry Battalion.
Kelly, F. G.	Traffic ..	Otago Mounted Rifles.
Knowles, T. E.	Locomotive ..	West Riding Regiment.
Lambert, E.	Locomotive ..	Auckland Infantry Battalion.
Lockett, R. L. B.	Locomotive ..	Wellington Infantry Battalion.
McEachen, P. J.	Traffic ..	Otago Infantry Battalion.
McFarlane, D. S.	Locomotive ..	Wellington Mounted Rifles.
McKinstry, L. G.	Traffic ..	Seventh Reinforcements.
McMurtrie, D. A.	Traffic ..	Otago Infantry Battalion.
Mather, A. B. W.	Locomotive ..	Wellington Infantry Battalion.
Miles, I.	Traffic ..	Canterbury Infantry Battalion.
Murcott, S. G.	Traffic ..	Otago Infantry Battalion.
O'Donnell, D.	Maintenance ..	Otago Infantry Battalion.
O'Keefe, J.	Locomotive ..	Wellington Infantry Battalion.
Owens, J. D. H.	Locomotive ..	Otago Infantry Battalion.
Potts, J. K.	Maintenance ..	Wellington Infantry Battalion.
Pratt, A. M.	Head Office ..	No. 1 Stationary Hospital.
Quigley, R.	Traffic ..	Canterbury Infantry Battalion.
Reynolds, S.	Maintenance ..	Canterbury Infantry Battalion.
Selby, W. G.	Locomotive ..	Otago Infantry Battalion.
Shannon, E. A.	Locomotive ..	Otago Infantry Battalion.
Smith, E.	Traffic ..	N.Z. Field Engineers.
Stewart, W. D.	Locomotive ..	Otago Infantry Battalion.
Sutherland, T.	Traffic ..	Otago Infantry Battalion.
Tonkin, R. E.	Locomotive ..	Auckland Infantry Battalion.
Trewern, H. A.	Locomotive ..	Otago Infantry Battalion.
Walinck, J.	Locomotive ..	Imperial Reservist.
Ward, A. L.	Locomotive ..	Otago Infantry Battalion.
Whitaker, J. H.	Traffic ..	Wellington Infantry Battalion.
Williams, G.	Locomotive ..	Otago Infantry Battalion.
Williams, H. J. T.	Traffic ..	Canterbury Mounted Rifles.
Wilson, A.	Locomotive ..	Otago Infantry Battalion.

NEW ZEALAND EXPEDITIONARY FORCES.

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED.

Abernethy, G. C.	Ball, F. E.	Bonisch, E. J.	Burke, D. P.
Aekland, C. W.	Ballantine, D.	Booth, A. W.	Burnett, A.
Adams, E. R.	Ballantyne, A. S.	Borland, R. W.	Burnley, H. B.
Afleck, K. J.	Ballantyne, J. M.	Borlase, W. J.	Burns, A. C.
Agnew, M.	Banfield, W. H.	Boswell, R.	Burns, C. R.
Agnew, W.	Banks, C.	Boult, A. A. B.	Burns, D.
Ahern, R. J.	Bannerman, E. I.	Bowen, G. J. W.	Burns, T. R. L.
Aickin, F. W.	Barber, W. H.	Bower, J. M.	Burton, J. A.
Aickin, P. R.	Barber, W. S. J.	Bowles, P.	Burton, T. H.
Aickin, T. R.	Barclay, A. J.	Bowles, P. McL.	Bush, M. E.
Aitchison, P.	Barclay, G.	Bowles, W. B.	Butler, G. S.
Aitken, C.	Barker, C.	Bowman, A. J.	Butler, G. T. W.
Aitken, J. (casual labourer).	Barker, W. E.	Bowman, J.	Butler, W. M.
Aitken, J. (guard).	Barnard, C. V.	Boyce, F.	Butt, L.
Aldridge, A. G.	Barnes, H.	Boyd, J. W.	Cahill, S.
Allan, A. R. L.	Barnett, B. S.	Boyd, R. J.	Cain, J.
Allan, L. S.	Barrett, W.	Boyes, A. C.	Cains, J. N.
Allen, C.	Barrett, W. E.	Bradley, E. J.	Cairns, R. J.
Allen, W. S.	Barrowman, M. F.	Bradshaw, G. B.	Caldwell, R. T.
Allender, L. M.	Barry, C.	Brambley, P. R.	Callick, W. S.
Allison, G.	Barry, G.	Bray, A. P.	Calton, E. A.
Allright, R. S.	Bashford, R. H. P.	Bray, B. R.	Cameron, A. A.
Aloes, R.	Batchelor, H. J.	Brebner, R. B.	Cameron, C. W. M.
Ames, H.	Bateman, F. H.	Brennan, L. J.	Cameron, J.
Amodeo, L. M.	Bateman, H. O.	Breslin, E.	Cameron, J. R.
Ander, A. E.	Bayldon, T.	Bridges, A. G.	Cameron, L. D.
Ander, C. L.	Beaton, T.	Bright, L.	Cameron, R. L.
Ander, E. F.	Beattie, H. E.	Britton, E. A.	Campbell, D.
Anderson, C. E.	Beauchamp, E. G.	Brockliss, F. J.	Campbell, F. G.
Anderson, N.	Beaumont, H. W.	Brogan, W. A.	Campbell, G. M.
Andrew, L. W.	Beck, G.	Brooks, H. H.	Campbell, J. G.
Andrews, A. J.	Beck, W. C.	Brooks, T. E.	Campbell, L. H.
Andrews, E. W.	Beekman, A.	Broome, H. S.	Campbell, R.
Andrews, J.	Beer, A. A. G.	Broomhall, W. W.	Cardno, G. A.
Andrews, J. R. D.	Beetham, A. M.	Brophy, J.	Carroll, J. D. F.
Auglim, T.	Begbie, R. C.	Brosnahan, P. J.	Carroll, T. F.
Angove, T. J. W. F. G.	Begg, I. W. D.	Broughton, D. S.	Carruthers, A. K.
Angus, A. J. C.	Bell, G. J.	Brown, A. C.	Carruthers, R. A.
Angus, N.	Bell, J. C.	Brown, A. H.	Carruthers, W. T.
Angus, P. R.	Bell, J. S.	Brown, C. J.	Carson, M.
Angus, R.	Bennett, C. F.	Brown, C. S.	Casey, E. B.
Annan, S. F.	Bennett, J. W.	Brown, D. H.	Casey, T. J.
Arbuckle, E. A. B.	Berkett, H. F.	Brown, E.	Casey, W. P.
Armstrong, J.	Berry, J. S.	Brown, E. O.	Cassels, A. M.
Arnold, E. J.	Bicknell, F. G.	Brown, H.	Cassels, A. Mc.
Ashley, A. W.	Biggs, W. A.	Brown, J. E.	Cathcart, W.
Ashley, C. J.	Billesdon, A. E.	Brown, M. C.	Cattell, S.
Askew, E. J.	Billington, T. G.	Brown, N. E.	Cayford, B.
Atkinson, S.	Binsted, J.	Brown, R. J.	Chalmers, C. I. F.
Aubrey, W. H.	Bishop, S. A.	Brown, R. L. T.	Chambers, P. S. H.
Auld, W. R.	Blackburn, P.	Brown, W.	Chammen, H. F.
Austin, F. O.	Blackburn, R. E.	Brownlie, J. H.	Champ, C. N.
Austin, H.	Blackie, J.	Bruce, H. S.	Chapman, H. J. L.
Auton, S. M.	Blackie, J.	Bruce, L.	Charleston, A. A.
Avey, G. A.	Blaikie, A. J.	Brunton, W. G.	Charlton, A. R.
Bagnall, L. J.	Blaikie, S. J.	Bryant, T.	Chitty, W. W.
Bailey, A. G.	Blair, T. R.	Brydon, R. O.	Christie, A.
Baillie, F. W.	Blake, D. H.	Budge, J. A.	Christie, J.
Bainbridge, J. W.	Blaud, A. J.	Bullock, F. J.	Christie, W. C.
Baker, E. J.	Bold, C.	Bulman, J.	Christie, W. J.
Baker, J.	Bond, A.	Bulman, T. A. G.	Christopher, J. G.
Baker, L.	Bond, B.	Burdett, J.	Christophers, H. H.
	Bond, J. R.	Burge, P.	Church, A. E.
	Bond, V. R.	Burke, D.	
	Bond, W. C.		

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED—*continued.*

Church, F.	Crossen, M.	Dunbar, W. F.	Flynn, P.
Ciochetto, C. V.	Crosswell, A. J.	Duncan, G.	Flugge, A. F.
Clapham, H. A. G.	Crouch, F. B.	Duncan, J.	Foley, W.
Clark, F. G.	Culley, F. J.	Duncan, W. M.	Forbes, J. M.
Clark, G. K.	Culley, J. A.	Dunlop, W. T.	Ford, A. J.
Clark, H. G.	Culpitt, H. W.	Dunn, J.	Ford, S. R.
Clark, S. G.	Cummans, S. L.	Dunstan, G.	Forde, J. P.
Clark, W. J.	Cummings, J. S.	Duston, C.	Fordham, R. E. W.
Clarke, D. A.	Cundy, J. A. F.	Dwan, A. P.	Foreman, J. W.
Clay, J. O.	Cunneen, J. P.	Dyer, C. F.	Forrest, J. H.
Clayton, J.	Curran, T.	Dyer, N. T.	Forsyth, N. L.
Cleary, L.	Curtis, G. M.		Forsyth, R.
Clingberg, W. C.		Ede, A. J.	Forward, S. R.
Cloke, J.	Dale, Alfred E.	Edwards, A. M.	Foster, E. J.
Chunan, P. J.	Dale, Archie E.	Edwards, C. P.	Foster, J. V.
Cobden, L. L. B.	Daley, T. D.	Edwards, E.	Fotheringham, W. L.
Cochran, J. I. Y.	Dallard, S. D.	Edwards, G.	Fountain, N. C. M.
Cochran, R. D.	Dalley, C.	Edwards, J.	Fowler, R. G.
Cockburn, E.	Dalley, L. M. C.	Edwards, R.	Fox, W. M. G.
Cockburn, T.	Dalton, T. D.	Edwards, S. G.	Foy, J. M.
Cockerell, A. R.	Daniel, J.	Edwards, T. A.	Frame, F. S.
Cockerell, D. B.	Daniels, D. B.	Egan, J.	Frame, G. S.
Cocklin, J. E.	Darling, J. G.	Egan, J. M.	Francis, J. A. G.
Cockroft, A. G.	Darragh, J. A.	Elliott, J.	Frank, J. F.
Cockshott, G. A.	Dash, S. H.	Elliott, J. B.	Fraser, A. A.
Codd, R. E.	Dasler, A.	Elliott, R. K.	Fraser, G. F.
Codlin, P.	Davidson, A.	Ellis, L. M.	Fraser, J. C.
Cogle, J. F.	Davidson, J. E.	Elvy, H. L.	Fraser, W. A.
Coleman, J. W.	Davidson, J. H.	Emery, L. A. J.	Fray, J. L. H.
Colley, W. L.	Davidson, R. W.	English, C.	Freed, F. B.
Collie, D. R.	Davies, F.	Ennis, W. O.	Fruin, F. G.
Collier, H.	Davies, W. D.	Ettershank, L. R.	Fruin, F. L.
Collins, D. J.	Davis, E.	Evans, J. V.	Fry, F. L.
Collins, H. P.	Davis, L. H. M.	Evans, R. D. J.	Fulton, H. J.
Colston, G. W.	Davis, M.	Evans, W. D.	Furber, P.
Connell, E.	Day, W. H.	Evenden, A. H. W.	Furey, D. J.
Connell, J.	Dee, H. W. E.	Ewart, T.	
Connett, T. C. W.	De Fillipi, D.		Gaffney, T.
Connor, J.	Delahoyde, W.	Fahey, P. M.	Gall, W.
Connor, W. W.	Delaney, J.	Fahy, E. W.	Gallagher, A. W.
Connors, D. A.	Delaney, N. L.	Fairbairn, G.	Gallagher, C. A.
Cook, R. G.	De Lucca, F. L.	Falconer, A. D.	Gallagher, C. N.
Cook, R. J.	Dender, F. A.	Falla, L. M.	Galvin, G. B.
Cook, T.	Dent, C.	Fama, L. C.	Gambling, E. W.
Cooke, R. G.	Devine, J.	Fanselow, H. A.	Gardner, J. H.
Cooke, W. F.	Devine, T. E.	Fanselow, W. S.	Garlick, R. T.
Cooney, J.	Dick, H. J.	Farnsworth, E. E.	Garner, A.
Coote, P. S.	Dickson, A. F.	Farquharson, W.	Garrard, C. R. E.
Copping, W.	Dickson, H. A.	Farrow, W. J.	Garvey, P.
Corbett, R. S.	Dimmock, A. R.	Fearon, A. E.	Gatehouse, C. H.
Corcoran, J. P. A.	Dine, R. L.	Feasey, F. D.	Gawn, T. G.
Cornwall, J. H.	Dingle, E. J.	Fenton, J. N.	Gee, A.
Cotter, F. T. P.	Diver, F.	Ferguson, A. L. S.	Gibb, A.
Cottle, S. H.	Dobbyn, A. J.	Ferguson, R.	Gibbs, L. J.
Couperthwaite, P.	Dobson, W. J.	Ferguson, W. F.	Gibson, J. A.
Coutts, M.	Doherty, P.	Ferriday, J. M.	Gibson, T. A.
Cowens, B. J.	Don, J.	Field, D. J.	Gilbert, J. J.
Cowie, J. H.	Donald, E. J.	Findlay, J.	Gilbert, L. C.
Cowling, J.	Donaldson, A. A.	Finlayson, K. C.	Gilchrist, G.
Cox, A. J.	Donaldson, J. L.	Finlayson, P.	Gillon, J.
Craighead, L.	Donnelly, J.	Firth, M. J.	Gilmore, A. F.
Craw, G.	Dooley, J.	Fisher, J. T.	Gilmore, R. J.
Crawford, A. N.	Doran, W. J.	Fitch, J. F.	Gilmour, F. D.
Crawford, H.	Dormer, H. W.	Fitzgerald, J. G.	Ginnane, J.
Crawford, S.	Dowker, R. H.	Fitzpatrick, A. F.	Girven, A.
Crawford, T.	Downes, T. S.	Fitzpatrick, D.	Girven, E. A.
Crawley, J. A. M.	Douglass, J. R.	Fitzpatrick, J.	Glastonbury, A. G.
Crean, P. L.	Doyle, J. J.	Flett, J.	Godfrey, J. A.
Crisp, C. A. B.	Dreaver, R.	Florey, V. C.	Godfrey, W. A. D.
Critchfield, J. V.	Drewery, L. O.	Flynn, A. M.	Going, J.
Cronin, T.	Duffy, A. N.	Flynn, J. D. J.	Gooch, L. H. C.

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED—*continued.*

- Goodhue, C. N.
 Goodley, A.
 Gordon, J.
 Gordon, R. H.
 Gordon, W. D.
 Gordon, W. E.
 Govan, D. A.
 Gow, R. R.
 Graham, W.
 Grammer, W.
 Granfell, A. E.
 Grant, A. G.
 Gray, A. F.
 Gray, E. E.
 Gray, G. C.
 Gray, J. A.
 Greatbatch, J. H.
 Green, H. C.
 Green, T.
 Greenhalgh, E.
 Greenslade, J. G.
 Greenwood, E. P.
 Greenwood, S. I.
 Greer, H. A.
 Greig, A. M.
 Gribble, N. W.
 Grieve, J.
 Grigg, M. H.
 Guerin, W. B.
 Guinness, W. J. P.
 Gunn, G. W.
 Gunn, J.
 Guthrie, A. H.
 Guthrie, J.
 Guthrie, J. H.
 Guthrie, M.
 Guthrie, T. J.
 Gwilliam, G. W. A.
 Gvton, F. S.
 Haddock, O. H.
 Haire, G. W.
 Hales, A.
 Haley, J. L.
 Halkett, F. A.
 Hall, J. H.
 Hall, W. V.
 Hallett, N.
 Halley, W.
 Halpin, A.
 Hamblin, W. J.
 Hamblyn, H. E.
 Hamilton, A. R.
 Hamilton, A. S.
 Hamilton, J. E.
 Hamilton, W.
 Hammond, H.
 Hammond, J. C.
 Hammond, L. J. B.
 Hanan, J. A. N.
 Handcock, T.
 Hancock, A. A.
 Hancock, J.
 Hanlon, G. W.
 Hannah, J.
 Hannan, W. P.
 Hannigan, J. P.
 Hansen, H. R.
 Hansen, J. A.
 Hanson, W. P.
 Harbridge, W. H.
 Hareus, J.
 Hardbottle, W. J.
 Hardeastle, L.
 Hardham, W. J.
 Hardie, W. A.
 Harding, A. E.
 Harding, L. C.
 Hardy, C. L.
 Hardy, W. A.
 Hare, J.
 Harland, A. E. B.
 Harper, J.
 Harper, J. L. T.
 Harpur, W. P.
 Harrahan, E.
 Harris, A. C.
 Harris, E. A. H.
 Harris, T.
 Harrison, G.
 Harrison, T. A.
 Harvey, H. W.
 Harvey, L. G.
 Hastedt, K. G.
 Hastings, N.
 Hatwell, F. A. L.
 Hawke, H. G.
 Hawkey, T.
 Hawkins, F. J.
 Haxton, G. W.
 Hay, J. B.
 Hayes, A. P.
 Hayes, J.
 Hayles, A.
 Hayles, N. F.
 Hayward, A. R.
 Heap, E.
 Heard, G.
 Hebditch, W.
 Hedge, C. G.
 Heginbotham, G. R.
 Helm, A. M.
 Henderson, H. H.
 Henderson, H. S. L.
 Henderson, L. A.
 Henderson, R.
 Henderson, T. J. F.
 Henderson, T. W.
 Henley, J.
 Henry, L.
 Henson, J. H. H.
 Herbert, S.
 Herd, J. A.
 Herman, A.
 Hewett, M.
 Hewson, J. C.
 Hickey, E.
 Hickey, M.
 Hickman, A. C.
 Hiddlestone, J.
 Higginson, N. L.
 Hill, F.
 Hill, W. H. A.
 Hills, A. H.
 Hilton, J. P.
 Hintz, H. A. H.
 Hislop, A.
 Hobbs, R. H.
 Hodgman, G. F.
 Hoff, L. P.
 Hogarth, J. Y.
 Holland, A. E.
 Holland, E. J. L.
 Hollinger, A. J.
 Holmes, F. G.
 Hooper, G. S.
 Hopkins, W. A.
 Hopkirk, R. E. B.
 Horrobin, F. W.
 Horsnell, C.
 Hotere, J.
 Houston, W. H.
 Howden, R.
 Howell, I. J.
 Howie, J. A.
 Howie, S. G.
 Howie, W. J.
 Howlett, L. V.
 Hughes, W.
 Hughes, W. C.
 Hunt, A. E.
 Hunt, F.
 Hunter, A. J.
 Hunter, E. G.
 Hunter, H.
 Hunter, W. L.
 Hutchings, C. R.
 Hutchins, A. R.
 Ibbotson, H.
 Ingpen, F. G.
 Ingpen, H.
 Irving, R.
 Islip, E. E.
 Jackson, A. W.
 Jackson, C. P. M.
 Jackson, J. G.
 Jackson, J. T.
 Jackson, R.
 Jackson, W.
 Jacobs, H. D.
 Jacobson, E.
 James, C.
 Jamieson, G. W.
 Jamieson, R. L.
 Jamison, W. L.
 Jeffery, R.
 Jenner, F. T. R.
 Jessen, J.
 Jobberns, J.
 Johanson, H.
 Johnson, J. W.
 Johnson, N. W.
 Johnson, W.
 Johnston, C. G.
 Johnston, F. C.
 Johnston, G.
 Johnston, J. E.
 Johnston, T.
 Johnston, W. J.
 Jones, C.
 Jones, C. B.
 Jones, D. R. R.
 Jones, F. A. A.
 Jones, F. R.
 Jones, J. T.
 Josland, F. W.
 Joyce, J.
 Judd, E. R.
 Julian, D. M.
 Jull, A. E.
 Jull, J. A.
 Junge, C. R.
 Jury, S. D.
 Kane, P. J.
 Katene, F. B.
 Kay, H.
 Keane, J.
 Keat, L. I.
 Keats, C.
 Keble, G.
 Keegan, P. J.
 Keenan, P. St. J.
 Keith, W. H.
 Kelleher, H. W.
 Kellett, G. E.
 Kelly, M.
 Kemp, R.
 Kennedy, D. C.
 Kenny, D. J.
 Kenyan, B. D.
 Kernick, J.
 Kerr, C. J.
 Kilburn, D. A.
 Kilkenny, M. H.
 Kilner, F. T.
 Kilpatrick, D.
 Kimber, G.
 King, F. E.
 King, G. H. F.
 Kingi, I.
 Kippenberger, L. J.
 Kirby, F. W.
 Kirton, T.
 Kissell, E. N.
 Kissell, W. G.
 Knaggs, W. D.
 Knight, R. P.
 Knights, S.
 Knock, G. E.
 Knowles, T. E.
 Kunst, F. J. H.
 Kurnan, H. A. D.
 Laloli, J. H.
 Lambert, E.
 Lambeth, T. A.
 Lamont, P.
 Lang, C. H.
 Langford, J. G.
 Latimer, A.
 Latimer, F. G.
 Latimer, L. H.
 Lauder, O. S.
 Laverty, E.
 Lawless, T.
 Lawlor, D.
 Lawlor, J. W.
 Lawson, T. M.
 Lawton, M. R.
 Le Brun, A. W.
 Leckey, J. C.
 Le Comte, J. P. D.
 Le Comte, R. A.
 Ledingham, A. R.
 Lee, E.
 Leedon, A. G.
 Leigh, T. J.
 Leitch, R. E.
 Lepper, J. V. H.

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED—*continued.*

Lepper, L. H.	Maxwell, A. C.	McAnnally, H. J.‡	McLean, G. H.
Leslie, W.	May, Frank.	McArley, J. L.	McLean, J. U.
Leslie, W. E.	May, Frederick.	McArthur, A. A.	McLean, L. D.
Leslie, W. M.	Mays, C. E.	McArthur, J. N.	McLean, T. H.
Levick, W. A. P.	Meadowcroft, E. H.	McArtney, A.	McLear, A. J. W.
Lewin, H. A.	Meads, H. T.	McAuley, F. G.	McLennan, A.
Leydon, B. E. E.	Medlin, H. B.	McAuliffe, W.	McLennan, T. F.
Lilly, W. H. T.	Meehin, J.	McCallum, W. A.	McLeod, W. P.
Lindop, W. H.	Mellor, L. W.	McCarthy, D.	McMahon, E.
Lineen, J.	Menzies, F. W.	McCarthy, L. R. S.	McMahon, T. J.
Linehan, C. A.	Menzies, J. W. C.	McCauley, J.	McManus, B.
Lloyd, D. J. L.	Menzies, S.	McCloy, D. G.	McMillan, J. J. G.
Lloyd, E. L.	Metrick, J. H. D.	McCombe, J. S.	McMinn, W. E.
Lloyd, G. M.	Meyenberg, W. R.	McComish, J. D.	McMurtrie, D. A.
Lloyd, T. E. L.	Meynell, H. F.	McConnell, C. D.	McNeil, J. D.
Lock, B. G.	Middlemass, V. C.	McCormick, A. N.	McNulty, J. E.
Lockett, R. L. B.	Middlemiss, W. T.	McCormick, B.	McQuarrie, E. D.
Lockhart, R.	Middleton, W.	McCrae, A. R.	McRae, T. M. F.
Lockie, L. W.	Milburn, G. K.	McCready, R.	McVicar, W. R.
Lockie, N. J.	Milburn, R.	McCreamer, J.	
Logie, E. H.	Miles, I.	McCullough, L. F.	
Long, T.	Miles, M. F.	McCullough, H.	Nankivell, A.
Longstaff, T.	Millar, A. G. J.	McDonald, C.	Nash, F.
Lorimer, H. S.	Miller, W. R.	McDonald, D. A.	Neale, J.
Louden, J.	Milligan, P. E. O.	McDonald, E. J.	Needham, J. I.
Lough, J.	Millin, W. G.	McDonald, H.	Neill, C. H.
Lucas, E.	Mills, A. C.	McDonald, H. E.	Neilson, A. L.
Lucas, J.	Mills, F.	McDonald, J.	Neilson, C. S.
Lucy, T. M.	Mills, W. G.	McDonald, L. F.	Neilson, W.
Luscombe, C. E.	Milne, C.	McDougall, A.	Nelson, G. O.
Lyall, J. R.	Minifie, A.	McDougall, J. M.	Nelson, R.
Lynch, A. P.	Mintrom, F. H.	McDowell, W. G.	Nerheny, S.
	Mitchell, G.	McEachen, P. J.	Nesbit, A. O.
MacArthur, J. I.	Mitchell, J. B.	McEnirney, P. J.	Nevin, F. L.
Mace, W. H. C.	Mitchell, J. J.	McEwan, D.	Newman, A. V.
Mackay, A. J.	Mitchell, V.	McEwin, J. J.	Newsam, C. S.
Mackay, J. R.	Mole, H. P.	McFarlane, D. S.	Newsham, W. P.
Mackay, R. M.	Monro, W.	McFarlane, H.	Newton, A. W. H.
Mackay, W. M.	Monteith, W.	McFaull, J. E.	Newton, G.
Mackenzie, A.	Moody, F. H.	McGahan, C. W.	Nicholson, C. J. S.
Maclachlan, R.	Moody, L.	McGee, F. N.	Nicholson, E. C. E.
Magnusson, O.	Mooney, E. M. A.	McGill, A.	Nicholson, H. K.
Maher, J.	Mooney, T. N.	McGinn, J. H.	Noon, R. G.
Malcon, F. J.	Moore, G.	McGonagle, D. L.	Norman, J.
Male, W. H.	Moore, G. R.	McGrail, C. H.	Norton, W. J.
Maloney, W. J.	Moore, J. C.	McGrath, G.	
Mancey, C. H.	Moosman, L. J.	McGrath, P. W.	
Manly, E. G. P.	Morey, P. H.	McGrath, T. C.	O'Brien, A. M.
Mann, W.	Moroney, E. J.	McGregor, A. J.	O'Brien, E. A.
Manning, P. S.	Morris, E. G. M.	McIlroy, H.	O'Brien, W. J.
Marr, R. M.	Morris, R. M.	McInnes, A. H.	O'Brien, W. P.
Marriott, P. S.	Morrison, K.	McIntosh, W. L.	O'Callaghan, T. F.
Marris, B. A.	Morrison, W. H.	McIvor, J.	O'Connor, P. M.
Marsh, G.	Mosley, C. C.	McIwraith, R.	O'Connor, T.
Marsh, J. W.	Motion, W. A.	McKain, E. T.	O'Donnell, D.
Marshall, C. D.	Mouat, F.	McKearney, M. P.	O'Donnell, P. J.
Marshall, E. J.	Moynihan, D.	McKellar, A. D.	O'Donohue, D.
Marshall, L. L.	Muir, J. C.	McKellar, D. I.	O'Harlon, F. G.
Marquet, J. D.	Muir, R. M.	McKellar, P. A.	O'Keefe, J.
Martin, A. V.	Muirhead, J. W.	McKenzie, M.	Oldham, A. W.
Martin, F. O.	Mulholland, G.	McKinstry, L. G.	Olds, W. K.
Martin, J. H.	Mullany, C. L.	McKone, J.	O'Leary, D. A.
Martin, W. J.	Mullany, E. J.	McKone, M.	O'Leary, J. W.
Massicks, E. J.	Mulligan, E. J.	McKone, N.	Oliver, J. W.
Masters, A. R.	Munn, S. D.	McKubre, J. M.	Oliver, L. D.
Matches, W. T.	Munn, W. G.	McLaren, E.	O'Loughlin, W. A.
Mather, A. B. W.	Munro, H. A.	McLaren, P. A.	Olsen, A. J.
Matheson, N. M.	Munro, P. A.	McLaughlin, A. J.	Olsen, W. J.
Matheson, R. D.	Murch, H. C.	McLay, T. B.	O'Reilly, —
Mathews, J. V.	Murcott, S. G.	McLean, Felix A.	Osborne, L. K.
Matthewson, W. G.	Murray, A. J.	McLean, Francis A.	O'Sullivan, L. M.

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED—*continued.*

O'Sullivan, J. F.	Quinn, C.	Ryan, A.	Sirett, G. L.
Otto, W. E.	Quinn, E. J. F.	Ryan, E.	Sisley, H. C.
Owens, J. D. H.		Ryan, T. J.	Skilling, E. G.
	Radford, E. W.	Ryan, T. P.	Slatter, H. A.
Page, W. E.	Rae, F.	Ryan, W. H.	Slaughter, H. V. M.
Paget, A. W.	Rae, T. H.		Sloan, T. C.
Pallesen, N.	Raine, R. F.	Sage, A. H.	Slodden, J. E.
Parker, H. A. J.	Ralston, W. J.	Salt, C. H.	Smale, R. R.
Parker, W. E.	Ramsay, J. F.	Samson, W.	Small, C. R.
Parkes, G. W. M.	Ramsay, J. W.	Samuel, J. J.	Smith, A.
Parkin, G. I. H.	Ramsay, M. H.	Samuel, W.	Smith, A. L.
Parr, E. A.	Ramsay, R. G.	Sanderson, A. R.	Smith, B. A.
Parr, R. E.	Ramsden, C. E.	Sandford, H. W. H.	Smith, E.
Passman, J. W.	Rasmussen, C. L. M.	Sangster, W.	Smith, F. H.
Patterson, A. G.	Ravenwood, H. C.	Saunders, E.	Smith, F. J.
Patterson, G.	Rawson, R. C.	Saunders, F. G.	Smith, F. W.
Patterson, L.	Ray, F. C.	Savage, H. G.	Smith, L.
Patterson, W. S.	Rayner, J.	Saville, G. H.	Smith, N. R.
Patton, H. L.	Read, F. J.	Sawers, J.	Smith, S. E.
Pauling, W. W.	Redpath, C. A.	Scanlan, T.	Smith, W.
Payne, A. W.	Reed, J. A.	Scannell, M.	Smith, W. B.
Payne, J. P.	Reeve, B. L. R.	Schaw, A. H.	Smylie, A.
Pearce, J. G.	Reeve, E. J.	Schaw, H. J.	Smyrk, E. W.
Pearson, J. W.	Reid, J.	Schultz, W. T.	Southwell, R. H. L.
Pearson, L. R.	Reid, T. M.	Scott, A. M.	Speirs, J. L.
Peart, S.	Reid, W. M.	Scott, A. V.	Spencer, R. T.
Peden, J. D.	Reidy, D. B.	Scott, C.	Spillane, C.
Pedersen, H.	Reidy, P.	Scott, G.	Spowart, M. W.
Penberthy, B. J.	Revell, H. J.	Scott, J. A.	Stanley, B. T.
Pennell, J. J.	Reynolds, L. B.	Scott, J. C.	Stansell, L. B.
Pepper, S.	Reynolds, S.	Scott, J. J.	Stanton, A. R.
Perkins, C. A. R.	Rice, J.	Scoullar, J. S.	Starkey, L. E.
Perry, S.	Richards, S.	Scoullar, W. A.	Starnes, J.
Persson, A. E.	Richardson, J.	Scully, M.	Stead, R. M.
Peryer, C. N.	Richardson, W. R.	Scully, P.	Steer, G. S.
Peryer, S. M.	Richdale, H. T.	Seabourn, A. A.	Steers, H. A.
Petersen, J. D.	Rickman, J. G.	Seager, H. E.	Stevens, A. M.
Petersen, P. A.	Ricsop, C. R.	Seccombe, A. P.	Stevens, J.
Petersen, R. F.	Riggs, B.	Selby, W. G.	Stevens, R. B.
Phillips, H.	Robb, R. D.	Semple, J. N.	Stewart, A. G.
Phillips, J. H.	Roberts, P. G.	Setter, W. R.	Stewart, C.
Phillips, J. J.	Robertson, A.	Sexton, M. D.	Stewart, D. M. A.
Phillips, J. T.	Robertson, A. M.	Shannon, E. A.	Stewart, W. D.
Pilkington, J.	Robertson, D. C.	Sharman, J. I.	Stewart, W. E.
Piper, A. L.	Robertson, D. L. J.	Sharp, T.	Still, A. E.
Pointon, R. J.	Robertson, F. W.	Shaw, E. A.	Stimpson, A. M.
Pollard, T.	Robinson, F. J.	Shaw, G. E.	Stinson, J.
Poole, G. T.	Robinson, G. J.	Shea, J. H.	Stockdale, W.
Pope, H. A.	Robinson, H.	Shelley, J. M.	Stokes, A. J. S.
Poppleton, G. P.	Roche, J.	Shepherd, T.	Strachan, J. B.
Porter, S.	Rodgerson, R.	Sheppard, J. H.	Stringer, A. E.
Potts, J. K.	Rogers, J. L.	Sherlock, W.	Stuart, G. L.
Power, J. M.	Rogers, S. D.	Shirley, H. H. O.	Stuart, J.
Pratt, A. M.	Rogerson, A. W.	Shore, W. H.	Stuart, W. G.
Prenderville, E. C.	Rohloff, A. F. R.	Short, J.	Sullivan, B.
Prentice, L. K.	Rolland, A. F.	Simmonds, H.	Sullivan, F. J.
Prentice, W. R.	Rollo, C.	Simmonds, W. H.	Sullivan, J.
Prentis, V. E.	Rolls, A. C.	Simmonds, W. H. R.	Suters, C. G.
Price, H. R.	Rope, R. P.	Simons, A. S.	Sutherland, A.
Priest, A. C. W.	Ross, H. L.	Simpkins, H.	Sutherland, D. W.
Pritchard, A. T.	Ross, J.	Simpson, A.	Sutherland, F. N.
Procter, G.	Rouse, F. J.	Simpson, E. G.	Sutherland, H.
Pugh, F. G.	Rowland, C. K.	Simpson, F. W. (Inver-	Sutherland, J. B.
Pullan, J. H.	Rowland, J. B.	cargill).	Sutherland, T.
Pullin, W. F. G.	Ruane, A. T.	Simpson, F. W. (Petone)	Sutherland, W. A.
Pye, W. W.	Ruff, A. J.	Simpson, G.	Sutton, G. H.
	Ruscoe, H. L.	Simpson, G. R.	Swan, G.
Qualter, M. F.	Rush, D.	Simpson, H.	Swinney, R.
Quested, W. P.	Russell, L. E.	Simpson, S.	Sykes, J. W.
Quigley, R.	Russell, R. D.	Simpson, W. G.	Syme, R.
Quinlan, C. P.	Rustbatch, A.	Sired, P. C.	Syme, R. A.

MEMBERS OF RAILWAY SERVICE WHO HAVE ENLISTED—*continued.*

Symes, H. A.	Townsend, F. P.	Welsh, E. H.	Wilson, D. M.
Symonds, A. H.	Treaise, N. E.	Welsh, F. W. J.	Wilson, E. H.
Symonds, C. J.	Treweek, C. W.	West, H. C.	Wilson, F. C.
Symons, B.	Trewern, H. A.	West, J. B.	Wilson, F. W.
	Trim, F. E.	Westerholm, N. B. O.	Wilson, G. M.
Tangney, B.	Tritt, W. C.	Westfield, A.	Wilson, G. R.
Tapsell, R. R.	Trower, A. L.	Wheeler, E. R.	Wilson, J. A.
Tarrant, L. T.	Truman, T. H.	Whishaw, B. G.	Wilson, John.
Tassell, S. I.	Tucker, J. N.	Whitaker, G. C.	Wilson, Joseph.
Tatham, L. J.	Tullett, A. J.	Whitaker, J. H.	Wilson, J. O.
Taylor, H. A.	Turkington, W. M.	White, A. G. F.	Wilson, J. W.
Taylor, H. K.	Turner, W.	White, C. W. S.	Wilson, R.
Taylor, J. C.	Turnwald, B. J.	White, D. L.	Wilson, R. G. J.
Taylor, P. A.	Tyack, W. H.	White, J. L.	Wilson, T. H.
Taylor, S. A. R.		White, R. L.	Wilson, V. H. G.
Taylor, W. C.	Vaughan, R. P.	White, T. F.	Wilson, W. D.
Taylor, W. L.	Vernon, J. S. F.	White, T. G. O.	Wilson, W. E.
Tennett, A. W.	Veysey, E. W.	White, W. A.	Wilson, H. O.
Terras, R. M.	Veysey, R.	Whitehorn, S. H.	Winder, F. J.
Terry, J. H.	Vial, J. M.	Whiten, S.	Winter, R. G.
Teward, T.	Vile, F. C. R.	Whitfield, E. G.	Winter, W. G.
Thomas, A. R.	Vollemaere, A. J.	Whitfield, G. E.	Wisnofski, A. C.
Thomas, C. R.	Vosper, E. J. L.	Whiting, N. A.	Wood, O. J.
Thomas, F. V.		Whittlestone, C. T.	Woodhead, C. D.
Thomas, G. W.	Wakefield, E. W.	Wiggins, H. A.	Woodrow, T. M.
Thomas, J. H.	Wakelin, L. T.	Willecox, G. H. C.	Woodrow, W. W.
Thomas, R. P.	Walinck, J.	Williams, A. P.	Woods, N. G.
Thomas, S.	Walker, A.	Williams, A. V.	Woollett, W.
Thompson, B. J.	Walker, C. E. S.	Williams, C. F. T.	Woollett, W. H.
Thompson, C. W.	Wallace, G. N.	Williams, G.	Woolley, D. S.
Thompson, J. H.	Wallace, J. R.	Williams, H. J. T.	Wormald, G. H.
Thompson, M. W.	Wallace, K. J.	Williams, L.	Worsfold, J. H.
Thompson, W. R.	Waller, W. J.	Williams, N. P.	Wray, W. G.
Thorn, G. B.	Walters, C.	Williams, R. E.	Wren, T.
Thornton, W.	Wansbone, J.	Williams, T. L.	Wright, A. H. B.
Thorpe, H.	Ward, A. I.	Williams, W.	Wright, J. W.
Thrupp, G. E.	Ward, B.	Williams, W. A.	Wright, P. J.
Thwaites, T.	Warren, C. H.	Williams, W. E.	Wright, W.
Tierney, G. T.	Watt, J.	Williams, W. E.	Wyatt, A.
Timings, M. T.	Wattam, R. E.	Williams, W. H.	
Timmins, E.	Watts, E. F.	Williamson, H. M.	Yates, A. W.
Tims, F. S. V.	Webb, J. S.	Williamson, T. J.	Yorsten, T. E. M.
Titchener, W. H.	Webb, W.	Willis, E. J.	Young, C. H.
Todd, C. M.	Webb, W. W.	Willis, P. G.	Young, J. F. H.
Todd, J.	Weenink, C. B.	Wills, W. O.	Young, J. R.
Todd, W.	Weir, J. K.	Willsted, W. B.	Young, R. W. F.
Tomkies, W. E.	Weir, R.	Wilson, A.	Yule, A. A.
Toner, J.	Wellings, W.	Wilson, A.	
Tonge, C. H. A.	Wellman, G. C.	Wilson, A. G. H.	
Tonkin, R. E.	Wellstead, A. W.	Wilson, C. G.	Zellman, Otto.

INDEX OF RETURNS

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7. Expenditure under Vote "Additions to Open Lines" charged to Capital Account.
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RETURN NO. 1.

GENERAL REVENUE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 1916.

Dr.	£	s.	d.	Cr.	£	s.	d.
To Cash in hand, freights, &c., outstanding at stations, 1st April, 1915	93,471	2	9	By Gross payment to Public Account	4,715,377	5	2
Revenue from passenger, parcels, and goods traffic, as per Return No. 5	4,548,355	14	6	Less collections for refund	231,224	6	1
	<u>4,641,826</u>	<u>17</u>	<u>3</u>	Cash in hand, freights, &c., outstanding at stations, 31st March, 1916	4,484,152	19	1
					<u>157,673</u>	<u>18</u>	<u>2</u>
					<u>£4,641,826</u>	<u>17</u>	<u>3</u>
To Net payment to Public Account	4,484,152	19	1	By Working-expenses, as per Return No. 4	2,910,882	10	4
Less cash in hand, freights, &c., outstanding at stations, 1st April, 1915, as above	93,471	2	9	Balance—Net earnings, available for interest	1,637,473	4	2
	<u>4,390,681</u>	<u>16</u>	<u>4</u>	Receipts as per Treasury accounts	£4,484,337	0	0
				Balance, Refund Account, 31st March, 1915, as below	14,802	3	3
					4,499,139	3	3
				Balance, Refund Account, 31st March, 1916, as below	14,986	4	2
					<u>£4,484,152</u>	<u>19</u>	<u>1</u>
Cash in hand, freights, &c., outstanding at stations, 31st March, 1916, as above	157,673	18	2		<u>£4,548,355</u>	<u>14</u>	<u>6</u>
	<u>£4,548,355</u>	<u>14</u>	<u>6</u>				

COLLECTIONS FOR REFUND TO HARBOUR BOARDS, SHIPPING COMPANIES, CARRIERS, ETC., FOR THE YEAR ENDED 31ST MARCH, 1916.

Dr.	£	s.	d.	Cr.	£	s.	d.
To Balance brought forward, 1st April, 1915	14,802	3	3	By Treasury payments	231,040	5	2
Collections for refund	231,224	6	1	Balance, 31st March, 1916, carried forward	14,986	4	2
	<u>£246,026</u>	<u>9</u>	<u>4</u>		<u>£246,026</u>	<u>9</u>	<u>4</u>

J. MACDONALD, Chief Accountant.

RETURN NO. 2.

GENERAL EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 1916.

Dr.	£	s.	d.	Cr.	£	s.	d.
To Balance brought forward.—				By Liabilities outstanding at 31st March, 1915, brought forward	..	..	157,574 19 0
Accounts due to the Department outstanding at 1st April, 1915, for stores, work done, &c.	40,243 18 5	Classified expenditure, as per Return No. 4	..	..	2,910,882 10 4
Stock of stores at 1st April, 1915	418,093 19 11	Recoveries to credit of Vote 18, *—			
Payments.—				Other Government Departments, and personal accounts for stores, work done, &c.	..	..	423,964 13 5
Per Treasury Vote 18*	3,425,213 0 7	Miscellaneous recoveries	..	..	47,241 18 2
Consolidated Fund—Unauthorized expenditure	10,000 0 0				471,206 11 7
			3,435,213 0 7	Balance,—			
Liabilities outstanding at 31st March, 1916, carried forward.—				Accounts due to the Department outstanding at 31st March, 1916, for stores, work done, &c.	..	..	39,500 8 1
Wages and supplies for March paid from Treasury in April	113,679 5 6	Stock of stores at 31st March, 1916	..	..	428,065 15 5
* Payments per Treasury	£3,425,213 0 7				
Recoveries	471,206 11 7				
Net charge to Vote	£2,954,006 9 0				
			£4,007,230 4 5				£4,007,230 4 5

J. MACDONALD, Chief Accountant.

RETURN No. 3.
CLASSIFIED EXPENDITURE FOR THE YEAR ENDED 31ST MARCH, 1916.

Section.	-Maintenance of Way and Works.						Locomotive Power.						Carriages.	Wagons.	Traffic.	Head Office.	Departmental Offices.	Lake Wakatipu Steamers.	Totals.	
	Permanent-way.	Structures.	Buildings.	Miscellaneous.	General Charges.	Total.	Working Locomotive.	Fuel and Water.	Oil, Tallow, &c.	Renewals and Repairs.	General Charges.	Total.								
WAGES AND SERVICES.																				
Whangarei	£ 6,765 17 0	£ 1,802 16 6	£ 514 2 6	£ 33 2 11	£ ..	£ 9,115 18 11	£ 3,823 16 7	£ 321 17 1	£ ..	£ 1,505 13 8	£ ..	£ 5,651 7 4	£ 508 15 5	£ 1,179 4 5	£ 6,953 12 11	£ 366 16 10	£ 1,160 15 6	£ ..	£ 24,936 11 4	
Kaihu	1,254 8 11	194 1 11	282 4 9	4 6 0	..	1,735 1 7	498 0 7	27 11 1	..	369 11 2	..	895 2 10	177 9 1	171 0 10	1,322 14 11	42 6 0	32 7 3	..	4,378 2 6	
Gisborne	4,332 14 3	469 5 9	385 10 0	15 13 6	..	5,203 3 6	1,935 19 6	93 0 3	..	1,675 9 5	..	3,704 9 2	192 5 7	483 17 6	2,712 9 3	204 14 7	158 8 3	..	12,659 7 10	
North Island Main Lines and Branches	157,190 2 1	51,626 12 4	27,216 14 5	2,032 9 7	..	238,065 18 5	176,159 18 5	14,140 19 1	..	68,294 12 8	..	258,595 10 2	33,045 9 6	40,960 7 9	389,999 13 3	17,845 8 5	39,878 12 10	..	1,018,391 0 4	
South Island Main Lines and Branches	142,606 15 10	34,295 3 4	31,019 13 3	663 18 6	..	208,585 10 11	116,842 19 1	10,611 16 6	..	48,336 4 3	..	175,790 19 10	17,865 2 0	28,826 14 7	314,236 19 6	11,630 8 3	27,669 11 10	..	784,605 6 11	
Westland	18,065 18 0	3,612 13 7	1,926 2 4	28 0 3	..	23,632 14 2	10,639 14 7	198 9 4	..	4,371 3 2	..	15,209 7 1	1,379 16 10	3,356 18 1	24,186 16 11	1,178 17 10	3,967 13 1	..	72,912 4 0	
Westport	3,943 11 0	1,273 12 11	594 19 1	..	..	5,812 3 0	6,258 0 1	403 14 4	..	1,704 15 6	..	8,366 9 11	470 7 10	5,933 2 0	14,511 18 6	791 14 10	2,820 16 0	..	38,706 12 1
Nelson	4,329 12 11	1,432 12 4	529 10 11	20 11 1	..	6,312 7 3	2,027 19 3	111 0 8	..	698 11 2	..	2,837 11 1	364 6 0	324 5 9	8,578 14 2	245 4 9	186 8 6	..	18,848 17 6	
Pictou	4,595 13 6	1,224 19 6	117 12 7	3 7 11	..	5,941 13 6	2,721 19 11	99 12 6	..	1,145 1 9	..	3,966 14 2	240 2 1	371 7 2	5,739 6 2	199 17 10	148 11 1	..	16,607 12 0	
Lake Wakatipu Steamers	4,537 13 10
Totals	343,084 13 6	95,931 18 2	62,586 9 10	2,801 9 9	..	504,404 11 3	320,908 8 0	26,008 0 10	..	128,101 2 9	..	475,017 11 7	54,243 14 4	81,606 18 1	768,242 5 7	32,505 9 4	76,023 4 4	4,537 13 10	1,996,581 8 4	
STORES.																				
Whangarei	553 7 8	195 0 4	213 8 6	14 4 4	..	976 0 10	..	2,208 16 0	239 10 7	1,072 18 0	..	3,521 4 7	411 6 5	461 7 4	593 4 5	38 3 10	18 2 5	..	6,019 9 10	
Kaihu	211 5 8	62 2 2	129 11 10	..	..	402 19 8	..	272 18 11	15 1 7	142 17 4	..	430 17 10	87 3 9	66 11 4	96 0 4	4 6 10	2 0 11	..	38,706 12 1
Gisborne	112 7 8	196 18 1	217 11 8	38 2 0	..	564 19 5	..	2,353 13 3	114 3 11	737 4 0	..	3,205 1 2	246 2 2	240 15 1	205 7 3	21 0 9	9 16 10	..	4,493 2 8	
North Island Main Lines and Branches	72,598 9 7	17,486 16 10	17,194 16 6	1,972 7 0	..	109,252 9 11	..	205,699 11 3	10,903 15 9	35,246 19 7	..	251,850 6 7	16,674 5 9	17,906 6 6	31,819 5 0	1,851 16 10	860 0 1	..	430,214 10 8	
South Island Main Lines and Branches	57,370 6 9	10,632 16 1	18,057 6 3	605 9 9	..	86,665 18 10	..	121,158 4 6	5,074 11 11	20,986 5 0	..	147,219 1 5	4,872 3 1	10,008 12 3	20,601 13 0	1,202 2 11	558 3 5	..	271,127 14 11	
Westland	4,584 5 10	829 15 8	984 18 4	31 5 2	..	6,430 5 0	..	5,135 2 4	524 6 2	2,244 17 8	..	7,904 6 2	694 9 6	1,721 18 10	1,721 15 0	121 17 1	57 5 8	..	18,651 17 3	
Westport	Cr. 686 7 2	183 12 11	434 16 5	..	..	Cr. 67 17 10	..	2,685 1 3	292 17 2	725 8 1	..	3,703 6 6	189 6 11	3,945 14 10	1,087 12 7	82 0 1	38 12 11	..	8,978 16 0
Nelson	566 16 0	549 0 1	250 5 11	5 15 2	..	1,371 17 2	..	1,836 19 5	109 11 11	498 0 2	..	2,444 11 6	141 1 9	31 3 11	480 17 3	24 19 5	11 13 11	..	4,506 4 11	
Pictou	1,188 7 9	232 18 11	79 3 1	2 12 1	..	1,503 1 10	..	2,154 0 3	133 3 6	579 3 5	..	2,866 7 2	147 2 5	190 17 0	328 18 5	20 12 9	9 16 6	..	5,066 16 1	
Lake Wakatipu Steamers	1,709 3 0
Totals	136,498 19 9	30,369 1 1	37,561 18 6	2,669 15 6	..	207,099 14 10	..	343,504 7 2	17,407 2 6	62,233 13 3	..	423,145 2 11	23,463 1 9	34,573 7 1	56,934 13 3	3,367 0 6	1,565 12 8	1,709 3 0	751,857 16 0	
MISCELLANEOUS.																				
Whangarei	17 14 4	33 15 11	2 4 3	0 1 11	64 4 8	118 1 1	..	39 11 5	..	399 12 3	12 11 2	451 14 10	98 13 10	301 14 8	363 17 7	..	..	..	1,334 2 0
Kaihu	1 9 11	0 12 3	4 17 3	..	1 17 3	8 16 8	..	..	..	52 4 10	1 8 2	53 13 0	4 4 0	5 11 6	31 9 5	..	..	..	103 14 7
Gisborne	17 16 8	124 4 5	150 3 7	2 16 4	87 4 5	382 5 5	..	4 12 0	..	397 14 0	10 5 1	412 11 1	Cr. 54 2 6	34 12 0	300 6 4	..	..	..	1,075 12 4
North Island Main Lines and Branches	1,462 9 6	5,470 16 2	4,323 18 9	307 19 11	3,200 7 1	14,765 11 5	..	132 0 5	..	16,844 16 3	1,433 8 7	18,410 5 3	6,343 3 1	8,628 10 6	32,079 14 10	..	..	..	80,227 5 1
South Island Main Lines and Branches	1,181 8 1	4,324 4 0	4,730 8 2	228 2 5	954 16 2	11,418 18 10	..	113 8 4	..	14,084 10 7	1,356 3 8	15,534 2 7	5,899 3 3	8,834 15 2	25,470 5 11	..	..	..	67,177 5 9
Westland	226 1 8	385 12 3	278 6 3	12 19 0	182 8 0	1,085 7 2	..	12 12 10	..	865 10 3	59 3 11	937 7 0	Cr. 56 10 7	505 6 0	3,395 12 9	..	..	..	5,867 2 4
Westport	157 1 8	171 5 5	98 5 8	..	35 10 8	462 3 5	..	11 4 8	..	200 9 5	51 2 9	262 16 10	Cr. 135 19 6	1,450 9 0	2,457 18 7	..	..	..	4,497 8 4
Nelson	13 5 11	26 13 2	1 14 8	6 2 5	104 7 11	152 4 1	..	6 19 2	..	205 7 11	10 14 7	223 1 8	109 17 0	97 0 0	431 6 0	..	..	..	1,013 8 9
Pictou	33 3 2	267 9 11	140 4 0	0 17 1	9 13 8	451 7 10	..	..	..	262 3 0	6 14 10	268 17 10	Cr. 10 8 6	24 11 4	282 19 11	..	..	..	1,017 8 5
Lake Wakatipu Steamers	129 18 5
Totals	3,110 10 11	10,804 13 6	9,730 2 7	558 19 1	4,640 9 10	28,844 15 11	..	320 8 10	..	33,312 8 6	2,941 12 9	36,574 10 1	12,198 0 1	19,882 10 2	64,813 11 4	..	..	..	162,443 6 0
Grand Totals	482,694 4 2	137,105 12 9	109,878 10 11	6,030 4 4	4,640 9 10	740,349 2 0	320,908 8 0	369,832 16 10	17,407 2 6	223,647 4 6	2,941 12 9	934,737 4 7	89,904 16 2	136,062 15 4	889,990 10 2	35,872 9 10	77,588 17 0	6,376 15 3	2,910,882 10 4	

RETURN No. 5.

COMPARATIVE STATEMENT OF PASSENGER AND GOODS TRAFFIC FOR THE YEAR ENDED 31ST MARCH, 1916.

Main table showing passenger and goods traffic for 1915-16 and 1914-15. Columns include Sections, Length Open for Traffic, Passengers (First Class, Second Class, Total), Total Season Tickets, Total Parcels, &c., Drays, &c., Cattle, Calves, Sheep, Pigs, Total, Equivalent Tonnage for Live-stock, &c., Chaff, Lime, &c., Wool, Firewood, Timber, Grain, Merchandise, Minerals, Total, and Gross Total Tonnage.

Table showing Revenue and Mileage for 1915-16 and 1914-15. Columns include Sections, Ordinary Passengers, Season Tickets, Parcels, Luggage, and Mails, Total Coaching, Goods, Miscellaneous, Rents and Commission, Total Goods, Grand Total Revenue, Train, Shunting and Ballasting, and Total.

J. MACDONALD, Chief Accountant.

1. The first part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order and include the following: [Illegible names and addresses]

2. The second part of the document is a list of names and addresses of the members of the committee. The names are listed in alphabetical order and include the following: [Illegible names and addresses]

RETURN No. 6.

ESTIMATED AMOUNT OF EXPENDITURE ON CONSTRUCTION OF RAILWAYS, ROLLING-STOCK, ETC., TO 31ST MARCH, 1916; NET REVENUE, AND RATE OF INTEREST EARNED ON CAPITAL EXPENDED ON OPENED LINES FOR YEAR ENDED SAME DATE.

Section of Railway.	Cost of Construction.		Net Revenue.	Rate of Interest earned.
	Opened Lines.	Unopened Lines.		
	£	£	£	£ s. d.
Whangarei	760,095	..	18,860	2 9 8
Kaihu	99,962	124,909	314	0 6 3
Tauranga .. .. .	..	17,194	..	..
Gisborne	585,768	255,719	10,550	1 16 0
North Island Main Lines and Branches ..	15,049,532	231,245	974,384	6 10 2
South Island Main Lines and Branches ..	14,431,457	821,396	495,830	3 8 9
Westland	2,054,716	122,625	65,304	3 3 7
Westport	592,089	588,288	56,269	9 10 1
Nelson	542,171	95,672	9,564	1 15 3
Picton	672,439	35,189	5,532	0 17 11
Lake Wakatipu steamer service	43,708	14,981	866	1 19 8
<i>In suspense—</i>				
Surveys, North Island .. .. .	..	35,701	..	..
Miscellaneous, North Island .. .. .	..	5,169	..	..
Surveys, South Island .. .. .	..	5,752	..	..
Miscellaneous, South Island .. .. .	..	5,168	..	..
P.W.D. stock of permanent-way .. .. .	..	118,190	..	..
W.R.D. stock of A.O.L. stores	25,945	..	..	..
	£34,857,882	£2,477,198	£1,637,473	£4 14 4
Total cost of opened and unopened lines at 31st March, 1916	£37,335,080		£1,637,473	£4 7 9

NOTE.—The amount stated in this return as the cost of construction of opened lines includes the Provincial and General Government expenditure on railways. It also includes the Midland Railway and expenditure by the Greymouth and Westport Harbour Boards on railways and wharves under the provisions of section 7 of the Railways Authorization Act, 1885, the information regarding the last mentioned being furnished by the respective Boards. The rate of interest earned has been computed on cost proportionately to the time during which lines taken over by the Working Railways Department within the financial year were earning revenue, thus:—

North Island Main Lines and Branches—
 Huntly - Pukemiro Opened for traffic, 20th December, 1915.
 Picton Section—
 Ward - Wharanui Opened for traffic, 4th December, 1915.

J. MACDONALD, Chief Accountant.

RETURN NO. 7.

EXPENDITURE UNDER VOTE FOR ADDITIONS TO OPEN LINES, CHARGED TO CAPITAL ACCOUNT, FOR THE YEAR ENDED 31ST MARCH, 1916.

		Amount.	Total.
		£ s. d.	£ s. d.
Material on hand at 31st March, 1915		13,688 18 10	
Expenditure charged to Vote 91 by Treasury		402,251 14 11	
		415,940 13 9	
Less material on hand at 31st March, 1916		25,945 5 6	389,995 8 3
Expenditure on works, &c.—			
Way and Works Branch		65,443 18 5	
Locomotive Branch		324,551 9 10	389,995 8 3

WAY AND WORKS BRANCH: PARTICULARS OF WORKS, ETC.

Railway.	Work, &c.	Amount.	Total.
		£ s. d.	£ s. d.
Whangarei	Additions to station buildings	43 7 10	
	Telegraph and telephone facilities	45 4 6	
			88 12 4
Gisborne	Road approach, loading-bank, &c.	112 10 0	112 10 0
North Island Main Lines and Branches	Sidings, loading-banks, stockyards, crossings, &c.	6,208 13 10	
	Additions to station buildings, extension of station-yards, and other facilities	15,113 12 0	
	Additional works, water-services, &c., for Locomotive Branch	1,262 6 2	
	Additional dwellings	7,608 15 10	
	Purchase of land	3,650 19 9	
	Bridge-work and subways	603 5 7	
	Cranes, weighbridges, turntables, &c.	373 15 2	
	Additions to workshops	5,387 3 2	
	Engine-depot	162 17 5	
	Parnell Tunnel duplication	6,067 5 3	
	Dredging and breastwork, Helensville Wharf	907 11 9	
	Fencing	609 2 11	
	Tablet-installation	2,049 6 6	
	Telegraph and telephone facilities	422 19 3	
	Interlocking points at crossing-stations	301 3 9	
	Special locking at tablet switch-out stations	165 19 5	
		50,894 17 9	
	Less reduction of capital cost, Kakahi Sawmill	4,172 0 0	46,722 17 9
South Island Main Lines and Branches	Sidings, loading-banks, stockyards, crossings, &c.	1,961 16 4	
	Additions to station buildings, extension of station-yards, and other facilities	4,599 14 5	
	Additional works, water-services, &c., for Locomotive Branch	272 11 5	
	Additional dwellings	791 14 11	
	Purchase of land	550 15 11	
	Additions to workshops	188 13 4	
	Engine-depot	5,193 14 7	
	Widening George Street, Pier—Port Chalmers	1,061 12 10	
	Flood-protection	200 0 0	
	Tablet-installation	530 1 0	
	Telegraph and telephone facilities	1,615 14 10	
	Interlocking points at crossing-stations	186 2 0	
	Special locking at tablet switch-out stations	34 11 6	17,187 3 1
Lake Wakatipu	Slipway, Queenstown	47 1 0	47 1 0
Westland	Siding additions	294 9 0	
	Additions to dwellings and station buildings	250 15 0	
	Office for Locomotive Engineer	284 12 11	
	Tablet-installation	6 15 11	836 12 10
Nelson	Stockyards	10 4 8	
	Water-services for Locomotive Branch	293 3 1	
	Additions to dwellings	85 8 4	
	Tablet-installation	1 6 6	390 2 7
Picton	Water-services for Locomotive Branch	58 18 10	58 18 10
			£65,443 18 5

RETURN NO. 7- continued.

LOCOMOTIVE BRANCH: PARTICULARS OF ROLLING-STOCK, ETC.

Description of Stock ordered.	Order.	Number Incomplete on March 31, 1915.	Number Complete on 31st March, 1916.	Number Incomplete on 31st March, 1916.	Expenditure in Year ended 31st March, 1916.
					£ s. d.
Wagons, four-wheel, 1910-1911 programme ..	M-8	..	..	..	Cr. 402 12 8
Locomotives, Class Wg (fourth lot) ..	U-8	..	..	..	Cr. 2,622 15 1
Locomotives, Class X.. ..	V-8	..	..	..	253 16 2
Wagons, four-wheel, 1912-1913 programme ..	E-9	110	110	..	5,393 12 2
Fitting locomotives, cars, and brake-vans with steam-heating gear	M-9	..	..	..	357 19 6
Carriages, Class A, 1913-1914 programme ..	N-9	4	4	..	777 14 2
Wagons, bogie, 1913-1914 programme ..	P-9	..	..	..	87 14 9
Wagons, four-wheel, 1913-1914 programme ..	Q-9	180	180	..	11,317 1 0
Fitting Whangarei rolling-stock with Westinghouse brake	T-9	..	..	..	1,024 10 7
Locomotives, Class Ww (fifth lot) ..	V-9	9*	9	..	9,467 18 2
Locomotives, Class Bb (Price's contract) ..	W-9	23†	12	16	38,416 4 9
Carriages, Class A, 1914-1915 programme ..	X-9	21	21	..	11,677 3 0
Brake-vans, Class F, 1914-1915 programme ..	Y-9	13	13	..	4,359 5 11
Wagons, bogie, 1914-1915 programme ..	Z-9	27	27	..	7,170 9 9
Wagons, four-wheel, 1914-1915 programme ..	A-10	210	160	50	14,953 18 3
Carriages, Class A, 1915-1916 programme ..	B-10	50	28	22	31,596 17 2
Brake-vans, Class F, 1915-16 programme ..	C-10	15	15	..	5,847 12 5
Wagons, bogie, 1915-1916 programme ..	D-10	160‡	55	105	35,403 18 0
Wagons, four-wheel, 1915-1916 programme ..	E-10	780§	187	593	51,938 1 0
Locomotives, Class Aa ..	F-10	10	4	6	25,771 9 5
Fitting sleeping-cars with electric light ..	G-10	..	..	..	741 13 6
Locomotives, Class Ww (sixth lot) ..	H-10	10	..	10	13,477 2 0
Carriages, Classes A and Aa, 1916-1917 programme ..	I-10	13	..	13	2,210 1 3
Brake-vans, Class F, 1916-1917 programme ..	J-10	3	..	3	270 4 2
Wagons, bogie, 1916-1917 programme ..	K-10	43	..	43	4,448 12 4
Wagons, four-wheel, 1916-1917 programme ..	L-10	16	16	..	2,307 9 6
"Thomas" transmission car ..	M-10	1	..	1	3,538 10 11
Locomotives, Class Aa (second lot) ..	N-10	10	..	10	787 5 1
Locomotives, Class Aa (Baldwin contract) ..	O-10	10	10	..	34,654 0 8
Wagons, Class V, bought from Nelson Bros. ..	P-10	8	8	..	1,500 0 0
Locomotives, Class Ww (seventh lot) ..	Q-10	10	..	10	..
Workshop machinery.. ..	..	..	..	..	7,826 12 0
Total .. ..	..	..	..	..	£324,551 9 10
Total locomotives .. ..	..	87	35	52	..
.. carriages .. ..	..	89	53	36	..
.. brake-vans.. ..	..	31	28	3	..
.. wagons, bogie .. ..	..	238	90	148	..
.. wagons, four-wheel ..	..	1,296	653	643	..

* Order reduced by 1.

† Order increased by 10.

‡ Order increased by 85.

§ Order increased by 12.

THE HUTT RAILWAY AND ROAD IMPROVEMENT ACTS, 1903 AND 1905, FOR THE YEAR ENDED 31ST MARCH, 1916.

	£	s.	d.
New Hutt Road (including land for same)	142	6	0

EXPENDITURE UNDER THE RAILWAYS IMPROVEMENTS AUTHORIZATION ACT, 1904, CHARGED TO CAPITAL ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 1916.

	£	s.	d.
Dunedin-Mosgiel: Duplication and deviation of line	Net Cr.	329	16 2

EXPENDITURE UNDER THE RAILWAYS IMPROVEMENTS AUTHORIZATION ACT, 1914, CHARGED TO CAPITAL ACCOUNT FOR THE YEAR ENDED 31ST MARCH, 1916.

	£	s.	d.
New stations and station-yards, goods-sheds, and terminal facilities at Auckland, Hastings, and Wellington	64,595	14	2
Duplications—			
Horotiu - Frankton Junction }	2,085	2	7
Newmarket - New Lynn }			
Grade easements—			
Penrose-Mercer }	37,288	12	10
Palmerston North - Marton }			
New engine-depot and approach-lines, Auckland & F.	12,017	12	3
New line—Auckland-Westfield	820	18	7
Signalling, interlocking, and safety appliances	21,690	18	11
Bridge-strengthening, Waiteti Viaduct	1,254	8	4
Cost of raising loan		0	17 6
	£139,754	5	2

J. MACDONALD, Chief Accountant.

RETURN NO. 8.

STATEMENT SHOWING CLASSIFICATION OF EXPENDITURE ON MAINTENANCE OF WAY AND WORKS FOR THE YEAR ENDED 31ST MARCH, 1916.

Classification of Work.	SECTIONS.												Totals.							
	Whangarei.		Kaikū.		Gisborne.		North Island Main Lines and Branches.		South Island Main Lines and Branches.		Westland.		Westport.		Nelson.		Picton.			
	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.	£	s. d.		
Track-surfacing	5,631	19 8	1,114	13 10	3,673	2 0	119,391	3 2	119,503	0 8	13,433	14 8	3,222	19 11	4,051	4 3	3,793	16 8	273,815	14 10
Track-renewals	751	8 5	292	17 0	129	10 1	66,891	4 3	58,744	6 1	4,766	9 3	Cr. 620	7 7	524	8 6	1,155	15 10	132,635	11 10
Ballasting	463	7 3	35	14 1	403	14 1	28,750	7 7	14,297	19 1	1,582	4 5	566	0 2	100	9 5	462	0 10	46,663	16 11
Banks, cuttings, ditches, tunnels	490	3 8	23	19 7	254	12 5	16,218	6 2	8,613	4 10	3,093	17 2	245	13 0	233	12 8	405	11 1	29,579	0 7
Bridges, culverts, drains	934	18 2	155	8 5	282	15 3	33,287	13 7	21,302	9 4	2,019	10 6	318	19 0	619	5 6	1,117	10 4	60,038	10 1
Fences, gates, cattle-stops, hedges	368	1 1	30	8 3	113	2 2	11,164	3 10	9,593	3 8	832	3 7	108	15 7	582	11 5	230	4 11	23,022	14 6
Roads, approaches, &c.	66	1 2	4	12 7	102	14 6	6,945	17 3	2,413	12 1	109	12 7	112	14 2	105	10 4	11	13 10	9,872	8 6
Water-services, signals, cranes, appliances	445	16 4	31	16 7	291	16 4	22,728	11 4	14,240	6 8	890	4 7	579	7 10	147	0 8	339	12 11	39,694	13 3
Wharves	216	16 0	34	10 6	..	..	457	19 4	1,702	11 8	976	10 3	508	14 8	553	17 8	26	6 4	4,477	6 5
Buildings	729	15 3	416	13 10	753	5 3	48,735	9 8	53,807	7 8	3,189	6 11	1,128	1 2	781	11 6	336	19 8	109,878	10 11
Miscellaneous	47	9 2	4	6 0	56	11 10	4,312	16 6	1,497	10 8	72	4 5	..	..	32	8 8	6	17 1	6,030	4 4
General charges	64	4 8	1	17 3	87	4 5	3,200	7 1	954	16 2	182	8 0	35	10 8	104	7 11	9	13 8	4,640	9 10
Totals	10,210	0 10	2,146	17 11	6,150	8 4	362,083	19 9	306,670	8 7	31,148	6 4	6,206	8 7	7,836	8 6	7,896	3 2	740,349	2 0
Rate per average mile opened	137	19 5	107	7 0	139	15 7	328	5 5	218	8 5	198	8 0	172	8 0	128	9 2	156	0 0	251	0 0

J. MACDONALD, Chief Accountant.

RETURN No. 9.

STATEMENT OF SEASON TICKETS ISSUED FOR THE YEAR ENDED 31ST MARCH, 1916.

Description of Tickets.	Number.	Amount.		
		£	s.	d.
Travellers' Annual, all lines	4	291	17	6
Travellers' Annual, North Island	48	2,593	18	2
Travellers' Annual, South Island	41	2,166	8	0
Reporters' Annual	78	823	3	4
Sectional Annual, North Island	431	14,038	18	3
Sectional Annual, South Island	327	10,430	13	3
Tourists', all lines	704	8,350	15	0
Tourists', North Island	4,165	28,577	5	0
Tourists', South Island	260	1,838	0	0
Fifty-trip commutation (ordinary)	3,122	2,693	3	2
Fifty-trip commutation (family)	1,823	2,924	16	2
School	31,453	18,072	1	4
Twenty-trip commutation	1,447	1,060	14	2
Twelve-trip workmen's	72,054	10,700	0	10
Weekly workmen's	192,339	19,601	0	9
All other season	22,326	32,159	13	5
Totals	330,622	156,322	8	4

J. MACDONALD, Chief Accountant.

RETURN No. 10.

COMPARATIVE STATEMENT OF THE NUMBER OF EMPLOYEES FOR YEARS 1915-16 AND 1914-15.

Department.	Whangarei-Kawakawa.	Kaihu.	Gisborne.	North Island Main Line and Branches.	South Island Main Line and Branches.	Westland.	Westport.	Nelson.	Picton.	Stores.	Total.
1915-16.											
General	4	1	3	351	128	23	5	5	3	170	693
Traffic	41	6	16	2,610	2,071	134	83	50	30	..	5,041
Maintenance	59	11	34	2,124	1,425	147	36	43	52	..	3,931
Locomotive	47	6	18	2,707	2,211	151	120	21	22	..	5,303
Totals.. ..	151	24	71	7,792	5,835	455	244	119	107	170	14,968
1914-15.											
General .. ..	..	..	..	..	..	..	..	..	..	..	632
Traffic	40	6	17	2,467	1,929	135	81	48	30	..	4,753
Maintenance	72	12	34	2,169	1,484	151	50	42	51	..	4,065
Locomotive	38	7	18	2,678	2,120	139	115	23	26	..	5,164
Totals.. ..	150	25	69	7,314	5,533	425	246	113	107	..	14,614

STATEMENT SHOWING NUMBER OF PASSENGER TICKETS ISSUED AT CHEAP EXCURSION RATES FOR YEAR ENDED 31ST MARCH, 1916.

Sections.	SCHOOLS, FACTORIES, AND FRIENDLY SOCIETIES.					HOLIDAY EXCURSIONS.					GROSS TOTAL—SCHOOL AND HOLIDAY EXCURSIONS.				
	Schools, and Factories, Soc's. Children not exceeding 15 Years of Age.	Schools only. Senior Scholars over 15 but not exceeding 23 Years of Age, and Teachers.	Schools, and Friendly Societies. Adults.	Total.	Revenue.	1st Class.	2nd Class.	Total.	Revenue.	Number of Tickets.	Revenue.	Total.	Revenue.	Number of Tickets.	Revenue.
	No.	No.	No.	No.	£ s. d.	No.	No.	No.	£ s. d.	No.	£ s. d.	No.	£ s. d.	No.	£ s. d.
Whangarei	179	76	52	307	19 2 0	494	4,467	4,961	978 6 8	5,268	997 8 8	4,961	978 6 8	5,268	997 8 8
Kaiku	681	...	768	1,449	84 0 0	...	...	...	...	1,449	84 0 0	...	...	1,449	84 0 0
Auckland	2,573	724	1,353	4,650	309 11 4	7,949	175,666	183,615	46,257 8 2	188,265	46,566 19 6	183,615	46,257 8 2	188,265	46,566 19 6
Ohakune	860	162	434	1,456	75 8 1	1,767	22,984	24,751	12,768 19 10	26,207	12,844 7 11	24,751	12,768 19 10	26,207	12,844 7 11
Gisborne	586	16	120	722	27 4 0	330	5,899	6,229	680 3 7	6,951	707 7 7	6,229	680 3 7	6,951	707 7 7
Wanganui	5,087	1,605	4,160	10,852	729 5 3	9,712	84,255	98,967	33,429 2 9	104,819	34,158 8 0	98,967	33,429 2 9	104,819	34,158 8 0
Wellington	8,154	1,379	4,352	13,885	710 13 2	55,698	127,748	183,446	49,806 12 8	197,331	50,517 5 10	183,446	49,806 12 8	197,331	50,517 5 10
Pictou	949	112	490	1,551	67 9 0	1,278	6,517	7,795	891 11 3	9,346	959 0 3	7,795	891 11 3	9,346	959 0 3
Nelson	887	279	229	1,395	64 6 3	1,474	5,763	7,237	924 9 1	8,632	988 15 4	7,237	924 9 1	8,632	988 15 4
Westport	106	23	74	203	8 6 9	36	2,273	2,309	282 9 1	2,512	290 15 10	2,309	282 9 1	2,512	290 15 10
Westland	3,318	304	3,548	7,170	465 15 5	3,019	22,212	25,231	5,140 5 4	32,401	5,606 0 9	25,231	5,140 5 4	32,401	5,606 0 9
Christchurch	9,639	1,731	9,809	21,179	1,584 1 1	25,074	130,469	155,543	47,589 12 3	176,722	49,173 13 4	155,543	47,589 12 3	176,722	49,173 13 4
Dunedin	4,123	831	4,793	9,747	751 14 3	22,143	105,451	127,594	43,974 18 11	137,341	44,726 13 2	127,594	43,974 18 11	137,341	44,726 13 2
Invercargill	5,896	956	5,909	12,761	1,176 2 2	7,427	69,986	77,413	26,373 16 5	90,174	27,549 18 7	77,413	26,373 16 5	90,174	27,549 18 7
Totals (1916	43,038	8,198	36,091	87,327	6,072 18 9	136,401	763,690	900,091	269,097 16 0	987,418	275,170 14 9	900,091	269,097 16 0	987,418	275,170 14 9
(1915	47,846	7,974	48,197	104,017	7,919 1 9	144,260	782,355	926,615	259,547 10 6	1,030,632	267,466 12 3	926,615	259,547 10 6	1,030,632	267,466 12 3
Decrease	4,808	...	12,106	16,690	1,846 3 0	7,859	18,665	26,524	9,550 5 6	43,214	7,704 2 6	26,524	9,550 5 6	43,214	7,704 2 6
Increase	...	224	...	...	...	...	...	...	...	...	...	...	...	...	...
Total, year ending—	63,598	5,949	38,467	108,014	7,246 5 9	50,511	289,164	289,675	50,232 12 11	397,689	57,478 18 8	289,675	50,232 12 11	397,689	57,478 18 8
31st March, 1896	44,610	5,993	33,925	84,528	5,616 2 8	58,464	313,724	372,188	63,439 0 0	456,716	69,055 2 8	372,188	63,439 0 0	456,716	69,055 2 8
31st March, 1897	39,963	5,898	35,064	80,425	5,569 18 1	66,012	383,569	449,581	80,822 8 1	530,006	86,392 6 2	449,581	80,822 8 1	530,006	86,392 6 2
31st March, 1898	45,748	6,192	39,955	91,895	6,215 11 8	70,531	411,747	482,278	84,794 15 6	574,173	91,010 7 2	482,278	84,794 15 6	574,173	91,010 7 2
31st March, 1899	37,839	5,616	31,164	74,619	4,752 3 10	81,528	501,176	582,704	96,154 7 5	657,323	100,906 11 3	582,704	96,154 7 5	657,323	100,906 11 3
31st March, 1900	38,864	5,602	34,550	79,016	5,234 16 8	87,544	541,624	629,168	102,932 10 9	708,184	108,167 7 5	629,168	102,932 10 9	708,184	108,167 7 5
31st March, 1901	42,506	5,736	37,708	85,950	5,466 16 9	95,628	588,813	684,441	136,813 0 1	770,391	142,279 16 10	684,441	136,813 0 1	770,391	142,279 16 10
31st March, 1902	41,540	6,048	41,555	89,143	6,050 11 3	84,448	517,566	602,014	103,279 8 6	691,157	109,329 19 9	602,014	103,279 8 6	691,157	109,329 19 9
31st March, 1903	50,364	6,975	54,344	111,683	7,424 19 7	100,417	594,967	695,384	125,624 4 0	807,067	133,049 3 7	695,384	125,624 4 0	807,067	133,049 3 7
31st March, 1904	52,742	7,359	53,558	113,659	7,882 16 0	100,968	592,485	693,453	130,068 16 9	807,112	137,559 12 9	693,453	130,068 16 9	807,112	137,559 12 9
31st March, 1905	55,478	7,715	57,027	120,220	7,882 16 0	110,823	626,852	737,675	140,939 16 3	857,895	148,822 12 4	737,675	140,939 16 3	857,895	148,822 12 4
31st March, 1906	48,044	7,837	39,783	95,664	6,514 18 4	125,280	731,132	856,412	194,185 2 9	952,076	200,700 1 1	856,412	194,185 2 9	952,076	200,700 1 1
31st March, 1907	51,031	8,163	53,886	113,080	7,604 10 4	113,617	618,518	732,135	141,519 16 11	845,215	149,124 7 3	732,135	141,519 16 11	845,215	149,124 7 3
31st March, 1908	55,199	9,266	52,579	117,044	7,641 5 10	122,312	667,867	790,179	166,471 6 3	907,223	174,112 12 1	790,179	166,471 6 3	907,223	174,112 12 1
31st March, 1909	53,917	7,811	53,677	115,405	7,964 15 7	128,277	735,561	863,838	211,133 6 10	979,243	219,098 2 5	863,838	211,133 6 10	979,243	219,098 2 5
31st March, 1910	66,381	10,799	66,695	143,875	9,488 14 7	107,208	576,251	683,459	155,444 10 11	827,334	164,973 5 6	683,459	155,444 10 11	827,334	164,973 5 6
31st March, 1911	62,289	8,924	63,612	134,823	9,702 15 3	135,590	704,883	840,473	206,472 13 1	975,298	216,173 5 4	840,473	206,472 13 1	975,298	216,173 5 4
31st March, 1912	63,040	9,723	61,134	133,897	9,509 8 7	159,730	804,965	964,695	271,611 17 7	1,098,592	231,121 6 2	964,695	271,611 17 7	1,098,592	231,121 6 2
31st March, 1913	111,029	18,246	59,712	188,987	13,235 8 4	131,416	683,851	815,267	210,109 0 9	1,004,254	223,344 9 1	815,267	210,109 0 9	1,004,254	223,344 9 1
31st March, 1914	47,846	7,974	48,197	104,017	7,919 1 9	144,260	782,355	926,615	259,547 10 6	1,030,632	267,466 12 3	926,615	259,547 10 6	1,030,632	267,466 12 3
31st March, 1915	43,038	8,198	36,091	87,327	6,072 18 9	136,401	763,690	900,091	269,097 16 0	987,418	275,170 14 9	900,091	269,097 16 0	987,418	275,170 14 9

RETURN NO. 12—continued.

STATEMENT OF REVENUE FOR EACH STATION FOR THE YEAR ENDED 31ST MARCH, 1916—continued.

Table with columns for Stations, Ticket Types (First-class, Second-class, etc.), and various Goods (Cattle, Sheep, Pigs, etc.). It is divided into sections: NORTH ISLAND MAIN LINES AND BRANCHES, WHANGAREI SECTION, KAIHU SECTION, and GIBBORNE SECTION. Each section lists stations and their respective revenue and volume data.

RETURN No. 12—continued.

STATEMENT OF REVENUE FOR EACH STATION FOR THE YEAR ENDED 31st MARCH, 1916—continued.

OUTWARD.

INWARD.

Main data table with columns for Stations, Number of Tickets, Parcels, Drags, Trucks, and various revenue categories like Cattle, Calves, Sheep, Pigs, Hales of Wool, etc. The table is organized into 'OUTWARD' and 'INWARD' sections.

RETURN No. 12—continued. STATEMENT OF REVENUE FOR EACH STATION FOR THE YEAR ENDED 31st MARCH, 1916—continued.

Table with columns for Stations, Outward, and Inward. Includes sub-sections for South Island Main Lines & Branches, Westland Section, Westport Section, Nelson Section, and Lake Wakatipu Steamers. Columns list various goods, passengers, and revenue details.

RETURN No. 16.

RETURN SHOWING THE MILEAGE, CAPITAL COST, TRAFFIC, REVENUE, AND EXPENDITURE OF THE NEW ZEALAND GOVERNMENT RAILWAYS FROM 1883 TO 31ST MARCH, 1916.

MILEAGE, CAPITAL COST, TRAFFIC, AND REVENUE.

Main table with columns: Year, Miles, Capital Cost, Train-mileage, Passengers (No., Revenue), Season Tickets (No., Revenue), Coaching (Parcels, Horses, Carriages, Dogs, Revenue), Drays, Cattle, Sheep, Pige, Lime, Chaff, Wool, Firewood, Timber, Grain, Merchandise, Minerals, Total, Goods Revenue, Miscellaneous Revenue, Rents and Commission, Total Revenue, Revenue per Train-mile.

EXPENDITURE.

Table with columns: Year, Expenditure per Train-mile, Expenditure of Revenue, Maintenance of Way (Amount, Per Cent. of Revenue, Per Mile of Railway, Per Train-mile), Locomotive Power (Amount, Per Cent. of Revenue, Per Train-mile), Carriages and Wagons (Amount, Per Cent. of Revenue, Per Train-mile), Traffic (Amount, Per Cent. of Revenue, Per Train-mile), Head and Departmental Offices, General Charges and Sundries (Amount, Per Cent. of Revenue, Per Train-mile), Less Credit Recoveries (Amount, Per Cent. of Revenue, Per Train-mile), Total Expenditure.

* Monthly year 1900-1901 recoveries have been credited to the branch in which they relate.

RETURN No. 17.

STATEMENT OF RAILS RELAID DURING THE YEAR ENDING 31ST MARCH, 1916

Weight.	Whangarei-Kawakawa.	Kaihu.	Gisborne.	North Island Main Line and Branches.	South Island Main Line and Branches.	Westland.	Westport.	Nelson.	Picton.	Total.
RAILS RELAID :—										
55 lb. steel	2	..	..	..	2,635	..	..	..	..	2,637
70 "	16	..	..	5,586	2,591	514	..	..	..	8,707
Totals	18	..	..	5,586	5,226	514	..	..	..	11,844

RETURN No. 18.

STATEMENT OF SLEEPERS RELAID AND REMOVED DURING THE YEAR ENDING 31ST MARCH, 1916

Description.	Whangarei-Kawakawa.	Kaihu.	North Island Main Line and Branches.	Gisborne.	South Island Main Line and Branches.	Westland.	Westport.	Nelson.	Picton.	Total.
SLEEPERS RELAID :—										
Ironbark .. .. .	..	..	1,493	..	2,628	83	..	..	..	4,204
Jarra .. .. .	..	..	51,405	..	62,492	507	..	162	668	115,234
Silver-pine .. .. .	..	..	6,386	..	19,600	4,119	69	795	2,911	33,880
Grey-gum .. .. .	..	..	6	..	7	..	..	..	..	13
Totara	48	751	2,204	..	..	..	..	..	..	3,003
Puriri	978	52	60	..	..	..	..	..	..	1,090
Birch .. .. .	..	..	59	..	..	..	..	..	..	59
Douglas Fir .. .. .	..	..	45	..	..	..	..	..	..	45
Matai .. .. .	..	..	242	..	..	..	..	..	..	242
Powellized .. .. .	..	..	60	..	..	..	..	..	..	60
Rimu .. .. .	..	..	393	..	..	..	..	..	..	393
Totals	1,026	803	62,353	..	84,727	4,709	69	957	3,579	158,223
SLEEPERS REMOVED :—										
Totara	131	2	32,370	..	15,378	..	..	..	..	47,881
Jarra .. .. .	..	..	10,986	..	2,049	..	..	..	..	13,035
Silver-pine	295	..	7,052	..	37,428	4,778	47	62	94	49,756
Puriri	263	50	12,793	..	832	..	..	..	..	13,938
Ironbark .. .. .	..	..	661	..	1,685	..	..	..	..	2,346
Powellized .. .. .	..	..	287	..	506	..	..	..	..	793
Matai .. .. .	..	..	70	..	5,825	..	..	..	..	5,895
Birch .. .. .	..	..	317	..	6,971	40	..	745	3,485	11,558
Grey-gum .. .. .	..	..	49	..	60	..	..	..	..	109
Blue-gum .. .. .	..	..	..	..	678	..	..	..	..	678
Creosoted .. .. .	..	..	137	..	9,636	..	..	..	..	9,773
Yellow-pine .. .. .	..	..	114	..	6	..	..	..	..	120
Kauri	337	751	57	..	..	..	..	..	..	1,145
Rimu .. .. .	..	..	943	..	..	..	..	..	..	943
Totals	1,026	803	65,836	..	81,054	4,818	47	807	3,579	157,970

RETURN No. 19.

RETURN OF NUMBER OF STATIONS AND PRIVATE SIDINGS ON EACH SECTION FOR THE YEAR ENDING 31ST MARCH, 1916.

Sections.	Length.	Number of Stations and Stopping-places in the Time-tables.	Number of Private Sidings.		
			At Stations.	Out of Stations.	Total.
Whangarei	M. 74 ch. 28	30	6	4	10
Kaihu	19 41	12	1	2	3
Gisborne	44 28	16	2	4	6
North Island Main Line and Branches	1,116 75	393	116	30	146
South Island Main Line and Branches	1,405 9	521	170	24	194
Westland	157 26	71	23	4	27
Westport	35 78	17	1	1	2
Nelson	60 20	23	3	1	4
Picton	56 12	23	4	1	5
Totals	2,969 77	1,106	326	71	397

RETURN NO. 20.
COMPARATIVE STATEMENT OF MILEAGE OF RAILWAYS OPEN FOR TRAFFIC AND UNDER MAINTENANCE ON 31ST MARCH, 1916.

Section.	Mileage open for Traffic on 31st March, 1915.		Additional Lengths opened during Year.		Reduced Mileage equivalent to Maintenance for whole Period.		Length closed during Year.		Net Addition to Mileage open for Traffic.		Total Mileage open for Traffic on 31st March, 1916.		Equivalent Total Mileage maintained during Financial Year ended 31st March, 1916.			
	M. ch.		Line opened.	Date of Opening.	M. ch.		Line.	Length.	M. ch.		M. ch.		M. ch.			
Whangarei-Kawakawa ..	74	28	..	..	..	..	..	..	..	..	..	74	28	74	28
Kaihu ..	19	41	..	..	..	..	..	..	..	..	..	19	41	19	41
North Island Main Line and Branches	1,109	32	Huntly-Awaroa..	20th Dec., 1915..	7	43	7	43	2	8	1,116	75	1,111	40
Gisborne ..	44	28	..	..	..	..	..	..	..	..	..	44	28	44	28
South Island Main Line and Branches	1,402	65	..	..	..	..	..	..	..	..	..	1,402	65	1,402	65
Ditto, Private Line—Nightcaps Branch	2	24	..	..	..	..	..	..	..	..	..	2	24	2	24
Westland ..	157	26	..	..	..	..	..	..	..	..	..	157	26	157	26
Westport ..	35	78	..	..	..	..	..	..	..	..	..	35	78	35	78
Nelson ..	60	20	..	..	..	..	..	..	..	..	..	60	20	60	20
Picton ..	48	19	Ward-Wharanui ..	4th Dec., 1915 ..	7	73	7	73	2	45	56	12	50	64
Totals ..	2,954	41	15	36	15	36	4	53	2,969	77	2,959	14

RETURN NO. 21.

STATEMENT SHOWING WEIGHTS OF RAILS IN VARIOUS LINES ON 31ST MARCH, 1916.

Line.	40 lb. Iron.	40 lb. Steel.	45 lb. Steel.	52 lb. Iron.	52 lb. Steel.	53 lb. Steel.	55 lb. Steel.	56 lb. Iron.	56 lb. Steel.	65 lb. Steel.	70 lb. Iron.	70 lb. Steel.	100 lb. Steel.	Total.
	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.
Whangarei-Kawakawa Section--
Onerahi-Opua	24 44	28 12	0 50	4 46	..	..	..	..	57 72
Kaikohe Branch	16 36	..	..	..	..	..	..	16 36
Kaihu Section--	17 15	2 26	..	..	..	..	..	..	19 41
Dargaville-Kaihu
North Island Main Line and Branches--
Auckland-Wellington..	0 51	..	..	35 57	25 66	..	..	..	425 77
Newmarket-Otamatea	0 45	17 18	..	21 61	..	..	..	..	84 07
Penrose-Onehunga	2 23	..	..	..	..	..	..	..	2 59
Huntly-Awaroa Railway	7 43	..	..	..	..	..	..	7 43
Frankton-Thames	9 78	..	..	..	..	..	..	..	62 75
Paeroa-Waihi	6 75	2 36	..	..	..	..	..	..	12 24
Cambridge Branch	62 37	..	..	2 42	..	..	..	..	12 1
Morrinsville-Rotorua..	11 13	..	..	0 9	..	..	..	..	68 60
Marlon-New Plymouth	41 44	..	..	41 44	..	..	..	..	136 65
Waitara Branch	0 14	0 48	..	..	..	3 77	..	..	0 3	..	..	..	..	4 62
Stratford-Whangamomona	15 45	21 60	..	0 30	..	..	..	..	37 55
Mount Egmont Branch	6 2	..	..	..	..	6 2
Aranoho-Wanganui	0 7	..	..	..	..	1 79	..	..	..	..	3 20
Foxton Branch	2 77	..	11 13	..	..	5 23	..	..	..	..	19 33
Palmerston-Spit	1 44	..	..	36 3	..	..	..	..	113 72
Wellington-Woodville	..	0 75	..	0 3	..	19 1	..	..	15 54	..	..	..	..	114 43
Greytown Branch	3 7	..	..	..	..	..	..	..	..	..	3 7
Te Aro Branch	1 9	..	..	0 1	..	..	..	..	1 10
Gisborne Section--
Gisborne-Matawai	0 20	..	..	..	..	..	26 26	..	17 62	..	..	..	..	44 28
South Island Main Line and Branches--
Lyttelton-Bluff	0 55	..	..	2 15	..	..	..	1 50	392 1
Addington-Culverden..	29 36	..	..	..	..	..	..	..	67 57
Oxford Branch	..	11 46	..	..	..	18 37	..	..	3 36	..	1 4	..	..	38 45
Eyreton Branch	0 66	0 3	..	..	..	19 16	0 6	..	..	..	..	..	..	20 11
Waipara-Parnassus	12 52	..	31 29	..	..	..	..	44 01
Southbridge Branch	23 19	1 0	..	1 20	..	..	..	..	25 39
Little River Branch	1 59	..	0 32	0 3	1 41	4 24	..	..	..	..	22 48
Springfield Branch	..	8 22	6 27	..	..	4 57	4 60	..	30 17	..	..	..	..	72 26
White Cliffs Branch	11 46	..	..	..	..	..	..	..	11 46
Rakala Forks Branch..	22 20
Mount Somers Branch	3 33	24 3	..	..	..	..	..	..	..	..	..	..	..	27 36
Albury Branch	0 65	..	..	..	..	22 44	4 78	..	7 66	..	..	..	..	36 13
Waimate Branch	2 2	..	2 44	..	..	..	..	..	..	..	4 46
Waimate Gorge Branch	8 21	..	..	..	..	..	..	..	..	..	8 21
Duntroon Branch	1 16	..	..	4 34	..	28 18	..	..	3 53	..	..	..	..	37 41
Oamaru Breakwater Branch	0 23	..	..	..	..	0 40	..	..	..	..	..	..	..	0 63
Carried forward	6 77	45 47	6 27	20 48	24 22	349 54	145 56	2 11	304 33	25 66	1 4	1,147 26	1 50	2,081 46

RETURN NO. 21—continued.
STATEMENT SHOWING WEIGHTS OF RAILS IN VARIOUS LINES ON 31ST MARCH, 1916—continued.

Line.	40lb. Iron.	40lb. Steel.	45lb. Steel.	52lb. Iron.	52lb. Steel.	53lb. Steel.	53lb. Steel.	55lb. Steel.	56lb. Iron.	56lb. Steel.	65lb. Steel.	70lb. Iron.	70lb. Steel.	100 lb. Steel.	Total.
Brought forward ..	M. ch. 6 77	M. ch. 45 47	M. ch. 6 27	M. ch. 20 48	M. ch. 24 22	M. ch. 34 9 54	M. ch. 145 56	M. ch. 2 11	M. ch. 304 38	M. ch. 25 66	M. ch. 1 4	M. ch. 1,147 26	M. ch. 1 50	M. ch. 2,081 46	
South Island Main Line and Branches—continued.															
Ngapara Branch ..	6 75	7 5		0 59		11 44	3 41		3 45					15 9	
Livingstone Branch ..									1 39					11 75	
Waikato Branch ..						0 17			1 0					8 65	
Port Chalmers Branch ..	0 7					1 55			0 67					1 26	
Walton Park Branch ..						1 57								2 49	
Fernhill Branch ..						65 73	3 0		65 58					1 57	
Otago Central Railway ..						6 34	0 69		1 57					9 0	
Outram Branch ..	0 4			0 25		19 2	18 26		3 37					34 63	
Lawrence Branch ..						10 39	20 4		6 59					42 68	
Catlin's River Branch ..						9 3	12 55							26 21	
Tapanui Branch ..						9 1			0 2					12 57	
Waikato Branch ..						1 66	24 76		7 3					9 35	
Wyndham Branch ..						44 59			23 56					33 65	
Seaward Bush Branch ..						17 76	8 6		10 21					87 0	
Invercargill-Kingston ..														24 23	
Makarewa-Tuatapere ..		0 7												24 51	
Thorabury-Nightcaps ..														12 66	
Forest Hill Branch ..	12 63	10 16		9 72		0 24	0 3		0 1					10 41	
Mararoa Branch ..						4 22			0 72					36 41	
Waimea Plains Railway ..						1 77	11 69							13 67	
Riversdale-Switzers ..															
Westland Section—															
Greyhound-Otira ..						22 30			11 30					16 68	
Greyhound-Ross ..						18 26			17 43					2 40	
Stillwater-Inangahua ..						31 25	13 29		6 64					5 35	
Blackball-Ngahere ..							1 0		2 31					3 31	
Coal Creek Branch ..				0 16		10 70			4 62					3 8	
Westport-Mokihinui ..														30 17	
Westport-Te Kaha ..	0 2	0 1		1 1		24 41	5 61		16 75					5 61	
Nelson-Glenhope ..	0 10			0 1		17 2	22 48		16 29					60 20	
Pictou-Whararui ..														56 12	
Totals ..	26 78	62 76	6 27	32 62	24 22	672 59	318 46	2 11	522 16	25 66	11 54	1,261 70	1 50	2,969 77	

RETURN No. 22.

SOUTH ISLAND MAIN LINE AND BRANCHES.

SHOWING MILEAGE OF TRACK IN MAIN LINE AND SIDINGS OPEN FOR TRAFFIC ON 31ST MARCH, 1916, ON THE SOUTH ISLAND MAIN LINE AND BRANCHES.

Line of Railway.	Main Line.		Branches.	Total Railway.	Sidings.			Total Equivalent of Single Track.			
	Single.	Double.			Main Line.	Branches.	Total.				
CHRISTCHURCH DIVISION :—	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.	M. ch.			
Main Line	211 57	17 72	..	229 49	98 56	..	98 56	328 25			
Rangiora—Sheffield and Eyreton Junction—Bennett's	..	..	53 56	328 32	..	4 79	35 65	58 55	
Waipara—Parnassus .. .. .	..	..	44 1			4 45		48 46	
Southbridge and Little River Branches	..	..	48 7			6 74		55 1	
Springfield and White Cliffs Branches	..	..	83 72			8 16		92 8	
Rakaia and Ashburton Forks Branch	..	..	22 20			3 16		25 36	
Mount Somers Branch .. .. .	..	..	27 36			1 75		29 31	
Albury Branch .. .. .	..	..	36 13			3 11		39 24	
Waimate Branch .. .. .	..	..	12 67			2 69		15 56	
Totals, Christchurch Division	211 57	17 72	328 32			558 1		98 56	35 65	134 41	692 42
DUNEDIN DIVISION :—											
Main Line	165 40	11 24	..	176 64	73 2	..	73 2	249 66			
Dunroon Branch .. .. .	..	..	37 41	301 12	..	3 13	32 47	40 54	
Oamaru—Breakwater Branch ..	..	..	0 63			1 72		2 55	
Ngapara & Livingstone Branches	..	..	27 4			2 44		29 48	
Waihemo Branch .. .. .	..	..	8 65			0 63		9 48	
Port Chalmers Branch .. .. .	..	..	1 26			3 65		5 11	
Walton Park Branch .. .. .	..	..	2 49			0 79		3 48	
Fernhill Branch .. .. .	..	..	1 57			0 24		2 1	
Otago Central Railway .. .. .	..	..	134 51			10 40		145 11	
Outram Branch .. .. .	..	..	9 0			0 63		9 63	
Lawrence Branch .. .. .	..	..	34 68			3 13		38 1	
Catlin's River Branch .. .. .	..	..	42 68	4 51	47 39				
Totals, Dunedin Division	165 40	11 24	301 12	477 76	73 2	32 47	105 49	583 45			
INVERCARGILL DIVISION :—											
Main Line	82 41	..	..	82 41	35 8	..	35 8	117 49	
Tapanui Branch .. .. .	..	..	26 21	315 67	..	2 70	41 52	29 11	
Waimea Plains Branch .. .. .	..	..	36 41			3 29		39 70	
Switzer's Branch .. .. .	..	..	13 67			2 3		15 70	
Waikaka Branch .. .. .	..	..	12 57			1 76		14 53	
Wyndham Branch .. .. .	..	..	9 35			1 0		10 35	
Seaward Bush Branch .. .. .	..	..	33 65			3 5		36 70	
Kingston Branch .. .. .	..	..	87 0			11 35		98 35	
Makarewa—Orepuki Branch ..	..	..	48 23			9 49		57 72	
Thornbury—Wairio and Wairio—Nightcaps Branches	..	..	24 51			4 2		28 53	
Forest Hill Railway .. .. .	..	..	12 66			1 20		14 6	
Lumsden—Mararoa Branch .. ..	..	..	10 41	1 3	11 44				
Totals, Invercargill Division	82 41	..	315 67	398 28	35 8	41 52	76 60	475 8			
Grand Totals—Whole Line..	459 58	29 16	945 31	1,434 25	206 66	110 4	316 70	1,751 15			

RETURN No. 23.

STATEMENT SHOWING APPROXIMATELY SLEEPERS LAID AND REMOVED UP TO 31ST MARCH, 1916.

Year.	Approximate Length opened each Year.			Sleepers.	
	North Island.	Middle Island.	Total.	Laid during Construction. (2,100 per mile.)	Removed during Maintenance.*
	M. ch.	M. ch.	M. ch.		
1867 .. ..	..	45 70	45 70	96,338	..
1870-71 .. ..	..	18 58	18 58	39,323	..
1871-72 .. ..	..	11 68	11 68	24,885	..
1872-73 .. ..	..	27 62	27 62	58,327	..
1873-74	10 55	11 21	21 76	46,095	..
1874-75	61 19	126 78	188 17	395,246	..
1875-76	69 23	248 4	317 27	666,409	..
1876-77	64 24	152 39	216 63	455,254	..
1877-78	103 76	94 58	198 54	417,217	..
1878-79	27 19	56 46	83 65	176,006	..
1879-80†	26 33	40 73	67 26	141,382	..
1880-81	68 39	32 71	101 30	212,888	74,261
1881-82	22 67	40 16	63 3	132,379	73,947
1882-83	2 2	40 19	42 21	88,751	106,763
1883-84	22 19	22 50	44 69	94,211	125,632
1884-85	56 0	24 0	80 0	168,000	148,325
1885-86	43 26	47 52	90 78	191,048	137,993
1886-87	58 72	11 39	70 31	147,814	139,040
1887-88	11 47	17 32	28 79	60,874	122,027
1888-89	18 31	..	18 31	42,814	108,690
1889-90	11 57	20 68	32 45	68,381	129,634
1890-91	28 21	5 68	34 9	71,636	133,954
1891-92 .. ..	..	27 27	27 27	57,408	139,912
1892-93	17 26	..	17 26	36,382	132,569
1893-94	28 38	33 58	62 16	130,620	155,827
1894-95	16 62	27 24	44 6	92,558	170,681
1895-96	14 73	3 48	18 41	38,876	188,291
1896-97	3 64	1 11	4 75	10,370	210,588
1897-98	27 46	10 2	37 48	78,960	243,479
1898-99	22 46	11 13	33 59	70,848	282,326
1899-1900 .. ..	..	19 26	19 26	40,582	302,354
1900-1901	4 30	103 38	107 68	226,485	345,433
1901-1902	11 20	12 32	23 52	49,665	369,339
1902-1903	28 40	27 43	56 3	117,679	330,029
1903-1904	33 12	4 44	37 56	79,170	309,296
1904-1905	17 61	27 75	45 56	95,970	302,252
1905-1906	23 5	8 52	31 57	66,596	309,183
1906-1907 .. ..	..	50 7	50 7	105,184	283,293
1907-1908	10 38	4 61	15 19	31,999	331,678
1908-1909	186 21	23 21	209 42	440,003	279,190
1909-1910	3 60	31 43	35 23	74,104	236,390
1910-1911	14 64	29 76	44 60	93,975	282,682
1911-1912	23 30	23 1	46 31	97,414	273,586
1912-1913	25 37	26 77	52 34	110,092	235,378
1913-1914 .. ..	..	3 6	3 6	6,458	261,748
1914-1915	40 22	51 3	91 25	191,756	227,674
1915-1916	7 43	7 73	15 36	32,445	157,970
Totals .. ..	..	..	..	6,170,877	7,661,414

* Complete information not recorded until 1880-81.

† Nine months only.

LOCOMOTIVE RETURNS FOR THE YEAR ENDING 31ST MARCH, 1916—continued.

Type.	Number of Engines.	Engine-mileage.			Quantity of Stores.				Cost.				Cost per Engine-mile, in Pence.				Days in Steam.	Type.	
		Detail.		Total.	Coal.	Running.		Repairs.	Total.	Repairs.	Running.		Total.	Repairs.	Total.				
		Train.	Shunting and Empty.			Work-train.	Oil.				Tallow.	Waste.				Wages and Material.			Stores.	Fuel.	Wages.	Stores.	Fuel.	Wages.
A ..	25	1,425,695	83,236	9,074	1,518,005	678,383	64,278	3,180	24,930	2,486	38,607	23,413	89,081	3-89	0-39	6-10	3-70	14-08	11,447 A.
AA ..	10	167,614	14,269	432	182,315	118,080	7,664	435	3,606	314	7,355	3,667	13,108	2-33	0-41	9-68	4-83	17-25	1,769 A.A.
BB ..	14	192,146	22,666	341	215,153	121,803	7,557	361	2,656	290	7,590	4,341	13,997	1-98	0-32	8-48	4-84	15-62	1,995 B.B.
BC ..	1	1,460	1,460	..	16,418	9,828	742	40	336	28	604	362	1,364	5-42	0-40	8-83	5-29	19-94	193 B.C.
C ..	2	14,767	14,767	..	14,767	2,792	293	38	179	12	172	367	760	3-39	0-19	2-79	5-96	12-33	391 C.
D ..	5	11,158	46,005	49,353	106,516	14,634	1,535	131	822	60	762	1,464	2,628	0-77	0-13	1-72	3-29	5-91	1,881 D.
E (simple)	4	5,848	17,378	8	24,874	9,131	974	57	442	37	556	768	1,725	3-51	0-36	5-36	7-41	16-64	414 E (simple).
E (compound)	1	..	..	..	3,182	1,720	133	10	61	5	104	74	543	27-14	0-39	7-88	5-56	40-97	29 E (compound).
F and FA	28	33,423	398,017	54,165	485,605	149,630	13,438	797	4,817	7,265	14,891	30,969	30,969	4-09	0-26	3-59	7-36	15-30	6,368 F and FA.
H ..	6	29,178	17,653	139	46,970	47,900	2,695	224	1,555	418	2,990	2,212	9,336	20-55	0-57	15-28	11-30	47-70	1,326 H.
J ..	17	313,693	62,236	4,100	380,029	153,332	11,039	515	4,248	418	9,388	7,473	21,527	2-68	0-26	5-93	4-72	13-59	3,545 J.
K ..	2	17,024	3,478	..	20,502	7,195	477	45	312	22	458	482	1,055	0-97	0-26	5-36	5-76	12-35	301 K.
L ..	9	96,153	39,681	6,572	142,406	53,459	3,547	250	1,240	137	2,805	3,100	8,567	4-26	0-23	4-72	5-22	14-43	1,893 L.
M ..	4	49,038	16,010	1,559	66,607	21,997	1,484	109	683	57	1,318	1,231	3,385	2-80	0-20	4-75	4-43	12-18	639 M.
N (simple)	10	243,324	30,297	4,077	277,698	121,834	7,768	378	2,848	298	7,617	4,885	17,110	3-77	0-26	6-43	4-32	14-78	2,285 N (simple).
N (compound)	5	119,578	5,701	871	126,150	63,453	4,100	139	1,333	149	3,961	2,181	10,568	8-14	0-28	7-53	4-15	20-10	930 N (compound)
NA and NC	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	NA and NC.
O and OB	8	110,475	23,247	1,523	135,245	68,880	3,976	227	1,766	152	4,312	3,062	10,853	5-90	0-27	7-65	5-43	19-25	1,585 O and OB.
OA and Oc	2	27,911	8,427	320	36,658	24,157	1,670	78	615	63	1,520	927	3,554	6-80	0-41	9-95	6-07	23-23	469 OA and Oc.
P ..	4	37,310	12,297	25,762	75,369	39,639	2,467	142	997	98	2,222	1,692	4,889	2-79	0-31	7-08	5-40	15-58	916 P.
Q ..	6	159,871	18,266	3,883	182,020	117,806	6,325	241	2,028	247	5,897	3,590	12,084	3-09	0-32	7-78	4-76	15-95	1,494 Q.
R ..	10	64,157	100,850	10,245	175,252	63,139	5,579	340	2,142	207	3,960	4,843	11,470	3-37	0-28	5-42	6-64	15-71	2,293 R.
S ..	4	2,207	78,431	494	81,132	30,381	2,443	160	1,319	105	1,899	2,770	5,771	2-95	0-30	5-62	8-19	17-06	1,030 S.
T ..	2	3,340	36,279	31,221	40,818	16,608	1,016	68	402	41	985	814	2,393	3-66	0-27	6-32	5-39	15-84	410 T.
Ud	3	52,052	4,429	170	56,651	30,864	1,748	80	518	64	1,921	1,022	4,758	7-42	0-27	8-14	4-33	20-16	423 Ud.
V ..	2	34,857	19,267	375	54,499	23,867	1,688	101	696	63	1,466	1,247	3,824	5-05	0-28	6-46	5-49	17-28	600 V.
WA, WF, Wg, WH and Ww	76	1,441,564	310,573	131,879	1,884,016	891,501	63,372	2,852	20,910	2,407	49,789	38,969	117,690	3-38	0-31	6-34	4-96	14-99	18,679 WA, WF, Wg, WH and Ww.
WB, Wb, and Wj	16	287,365	55,936	87,822	431,123	223,635	14,528	588	4,501	518	14,013	8,762	32,217	4-98	0-28	7-80	4-87	17-93	3,872 WB, Wb, and Wj.
WE	1	15,707	5,955	194	21,856	14,809	1,209	40	344	44	932	583	2,060	5-50	0-48	10-24	6-39	22-61	255 WE.
X ..	18	383,614	31,060	48	414,722	314,571	36,183	1,078	8,312	1,208	19,658	8,601	37,592	4-70	0-69	11-37	4-99	21-75	3,827 X.
Y ..	1	6,838	1,494	..	8,332	3,827	589	..	178	22	315	133	576	3-05	0-64	9-07	3-83	16-59	234 Y.
Small tank\$	1	..	3,129	..	3,129	..	..	..	..	..	..	..	15	1-24	..	..	..	1-24	249 Small tank\$.
Totals ..	322	5,346,098	1,447,941	429,441	7,223,480	3,453,728	270,517	12,719	94,621	10,184	200,441	147,886	475,569	3-89	0-34	6-66	4-91	15-80	71,742
General charges	..	..	..	..	..	..	..	..	..	..	..	..	68,099	..	..	..	..	2-26	..
Totals	..	5,346,098	1,447,941	200,246	6,994,285	3,453,728	270,517	12,719	94,621	10,184	200,441	147,886	475,569	3-89	0-34	6-66	4-91	15-80	71,742

* Mileage run by engines performing work-train service for Maintenance Branch "working-expenses" classifications. † Credit for same received from Maintenance Branch. ‡ Gallons petrol. \$ Wages, fuel, &c., supplied by Stores Branch. 1 C sold in May. 2 D sold in February. 1 D sold in March. 1 WA transferred to Gisborne in July. 1 WF transferred to Picton in August. 1 FA transferred to Whangarei in December. 1 W transferred to Nelson in June.

RETURN NO. 25—continued.
LOCOMOTIVE RETURNS FOR THE YEAR ENDING 31ST MARCH, 1916—continued.

Type.	Number of Engines.		Engine-mileage.			Quantity of Stores.				Cost.				Cost per Engine-mile, in Pence.				Days in Steam.	Type.		
	Average Speed in Miles per Hour.		Detail.			Running.				Repairs.		Running.		Repairs.		Running.					
	Train.	Shunting and Empty.	Work-train.	Total.	Coal.	Oil.	Tallow.	Waste.	Material.	Stores.	Fuel.	Wages.	Total.	Material.	Wages.	Stores.	Fuel.			Wages.	Total.
A (compound)	194,394	7,103	1	201,498	89,637	7,176	338	2,466	7,725	£	£	£	£	9-20	0-32	6-42	3-35	19-29	1,275	A (compound).	
AB (simple) 409	25,797	1,188	..	26,985	11,666	753	47	323	701	29	378	1,804	6-23	0-26	6-19	3-36	16-04	176	AB (simple) 409.		
AB..	37,582	1,460	..	39,042	13,408	1,170	54	364	138	42	796	1,444	0-85	0-26	4-91	2-86	8-88	236	AB.		
B..	185,335	22,507	..	207,842	139,035	8,361	400	2,708	4,036	311	8,022	17,128	4-67	0-36	9-26	5-49	19-78	2,046	B.		
BA..	193,116	37,756	29.5	231,167	155,012	11,284	539	3,995	3,641	416	9,102	18,898	3-78	0-43	9-45	5-96	19-62	2,525	BA.		
D..	600	94,794	..	95,394	28,435	2,359	202	1,480	419	99	1,197	3,258	1-05	0-25	3-01	8-20	12-51	1,906	D.		
F and FA	122,315	522,309	31,399	676,023	251,597	20,022	1,323	7,479	10,286	702	10,019	22,010	3-67	0-25	3-56	7-81	15-29	9,736	F and FA.		
J..	290,875	41,640	4,179	336,694	157,201	8,926	767	4,374	5,228	355	7,049	19,762	3-73	0-25	5-02	5-09	14-09	3,691	J.		
K..	69,538	7,876	361	77,775	34,775	1,929	195	1,108	1,758	80	1,894	5,341	5-42	0-25	5-84	4-97	16-48	1,019	K.		
L..	5,990	2,961	102	9,053	3,060	303	25	151	558	14	187	275	14-79	0-37	4-96	7-29	27-41	170	L.		
P..	101,288	12,309	20,376	133,973	86,901	4,155	306	1,669	2,182	157	3,362	2,911	3-91	0-28	6-02	5-22	15-43	1,379	P.		
Q..	221,708	13,974	..	235,682	124,215	8,541	300	2,208	4,469	294	7,143	3,396	4-55	0-30	7-27	3-46	15-58	1,552	Q.		
R..	13,197	70,100	33,359	116,656	40,016	2,976	297	1,906	2,728	121	2,220	3,645	8-714	0-25	4-57	7-49	17-92	1,669	R.		
T..	48,539	5,743	1,266	55,548	28,820	1,699	143	1,033	800	70	1,766	1,498	3-46	0-30	7-63	6-47	17-86	867	T.		
U, UA, and Uc	604,007	42,442	8,308	654,757	344,128	18,614	1,184	7,229	10,292	731	19,333	12,075	42,431	3-77	0-27	7-09	4-43	15-56	6,075	U, UA, and Uc.	
UB..	599,901	39,915	266	640,082	335,200	20,243	851	6,852	12,706	746	20,116	11,143	44,711	4-76	0-28	7-54	4-18	16-76	5,225	UB.	
V..	256,113	16,289	1,080	273,482	174,556	6,745	560	3,179	2,641	258	4,636	5,215	12,750	2-32	-0-23	4-07	4-57	11-19	2,581	V.	
WD..	59,453	18,066	4,350	81,869	32,141	3,072	164	1,092	2,289	115	2,020	1,924	6,348	6-71	0-34	5-92	5-64	18-61	943	WD.	
WF..	276,099	86,790	29,109	391,998	184,654	12,403	728	4,797	7,358	494	11,276	9,316	28,444	4-50	0-30	6-90	5-70	17-40	4,199	WF.	
Totals	3,305,847	1,045,222	134,451	4,485,520	2,234,457	140,711	8,423	54,113	79,955	5,301	116,232	99,556	301,044	4-28	0-28	6-21	5-34	16-11	47,270		
General charges	42,931	2-30	..		
Totals	3,305,847	1,045,222	134,451	4,485,520	2,234,457	140,711	8,423	54,113	79,955	5,301	116,232	99,556	343,975	18-41	..		
	124,462*	6,746†	
Totals	9,989	4,361,058	337,229	

SOUTH ISLAND MAIN LINE AND BRANCHES.

* Mileage run by engines performing work-train services or Maintenance Branch "working-expenses" classifications. † Credit for same received from Maintenance Branch.

RETURN NO. 25—continued.
LOCOMOTIVE RETURNS FOR THE YEAR ENDING 31ST MARCH, 1916—continued.

Type.	Number of Engines.		Average Speed—Miles per Hour.		Engine-mileage.				Quantity of Stores.				Cost.				Cost per Engine-mile, in Pence.				Days in Steam.	Type.
	Detail.		Total.		Running.		Repairs.		Running.		Repairs.		Running.		Repairs.		Running.					
	Train.	Shunting and Empty.	Work-train.	Total.	Coal.	Oil.	Tallow.	Waste.	Wages and Material.	Stores.	Fuel.	Wages.	Total.	Wages and Material.	Stores.	Fuel.	Wages.	Total.				
																			Coal.	Oil.			Tallow.	Waste.	Wages and Material.	Stores.	Fuel.	Wages.	Total.

WESTLAND SECTION.

D ..	1	18	3,324	..	3,324	375,200	216	11	67	£	21	£	24	130	£	183	152	0.58	1.73	9.38	13.21	72	D.	
F and FA ..	6	20	54,152	618	114,543	32,563	4,316	224	4,230	1,089	2,759	151	1,089	3,189	5.77	7,188	3.17	0.33	2.28	6.68	15.06	1,401	F and FA.	
LA ..	5	20	9,309	20,006	78,712	27,915	3,667	197	1,111	934	1,037	131	934	1,905	3.17	4,907	3.40	0.40	2.85	5.80	12.22	1,111	LA.	
N ..	1	25	1,595	362	28,017	12,707	48	378	167	424	167	38	424	543	1.44	1,172	1.44	0.32	3.63	4.65	10.04	283	N.	
W and WA ..	5	18	26,060	749	121,002	58,881	4,564	230	1,750	1,974	2,675	170	1,974	2,867	5.33	7,686	5.33	0.34	3.90	5.67	15.24	1,263	W and WA.	
WB ..	1	20	2,380	74	13,399	7,035	697	33	250	235	836	26	235	350	14.97	1,447	14.97	0.46	4.21	6.27	25.91	160	WB.	
WE ..	1	15	4,343	574	16,203	9,921	933	47	360	334	314	35	334	583	4.65	1,266	4.65	0.52	4.95	8.64	18.76	244	WE.	
Totals ..	20	..	95,480	22,383	375,200	149,758	15,392	790	5,146	7,809	559	5,146	9,567	22,949	4.99	0.36	3.21	6.12	14.68	4,534
General charges	25,318	..	2,369	16.20
Totals	95,480	693	353,510	24,051

WESTPORT SECTION.

C ..	2	12	19,540	2	19,554	5,591	1,022	56	374	261	34	174	830	3.20	1,299	3.20	0.41	2.14	10.19	15.94	315	C.		
F and FA ..	4	15	32,197	3,072	54,985	16,357	1,823	141	900	933	76	514	1,781	4.14	3,304	4.14	0.34	2.28	7.90	14.66	833	F and FA.		
WB ..	5	20	25,909	10	105,469	57,769	4,584	233	1,690	1,394	169	1,793	2,643	3.17	5,999	3.17	0.38	4.08	6.02	13.65	1,178	WB.		
Totals ..	11	..	77,646	3,084	179,108	79,717	7,429	430	2,964	2,588	279	2,481	5,254	3.47	10,602	3.47	0.37	3.33	7.04	14.21	2,326	..	..	..
General charges ..	..	..	..	..	..	..	..	..	..	..	..	..	..	12,544	..	211†	..	..	..	16.81	..	..	..	..
Totals ..	..	..	77,646	10	176,034	..	..	..	..	..	..	..	..	..	12,333	..	..	..	..	..	..	..	..	..

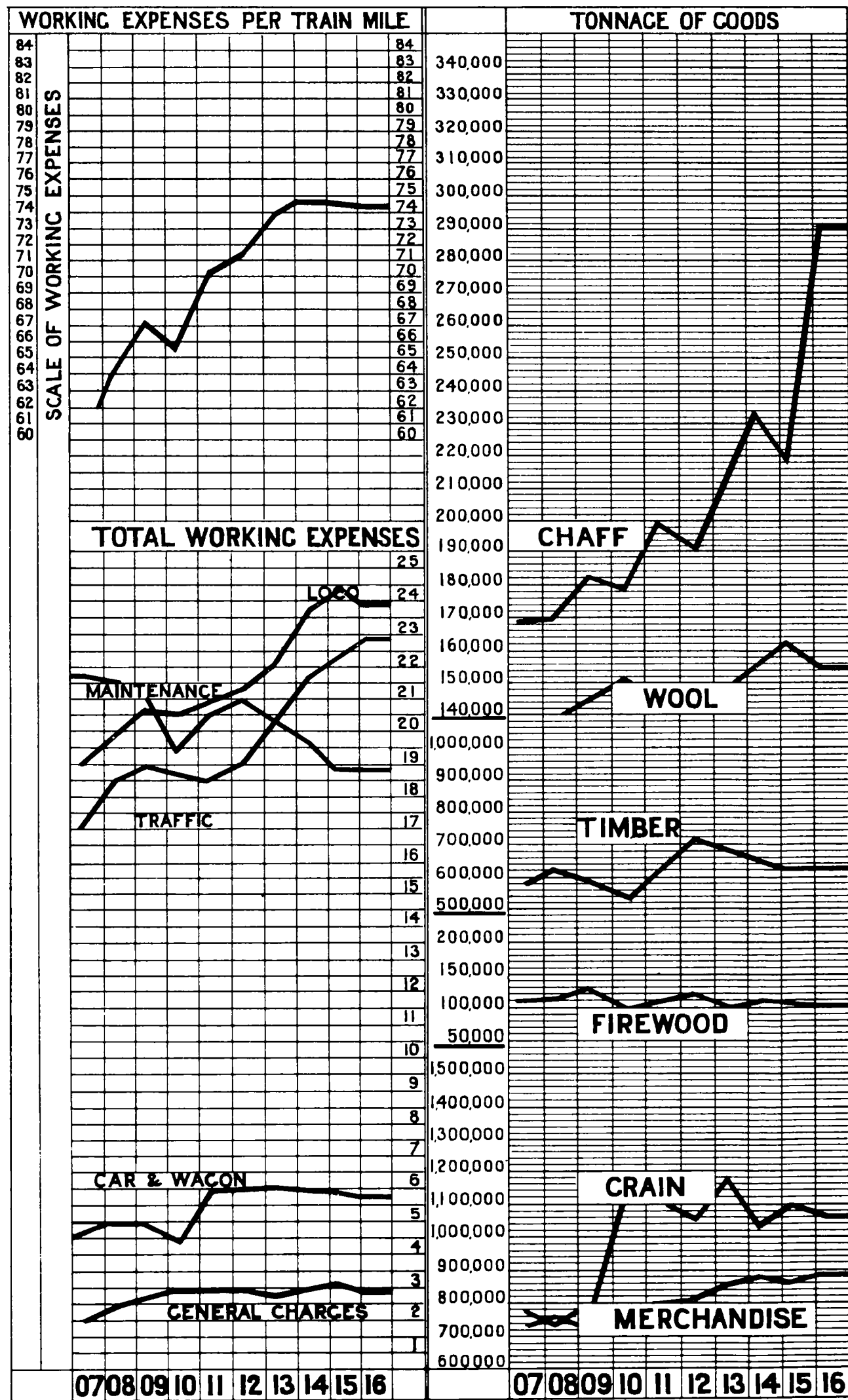
* Mileage run by engines performing work-train services for Maintenance Branch "working-expenses" classifications. † Credits for same from Maintenance Branch.

RETURN NO. 25—continued.
LOCOMOTIVE RETURNS FOR THE YEAR ENDING 31ST MARCH, 1916—continued.

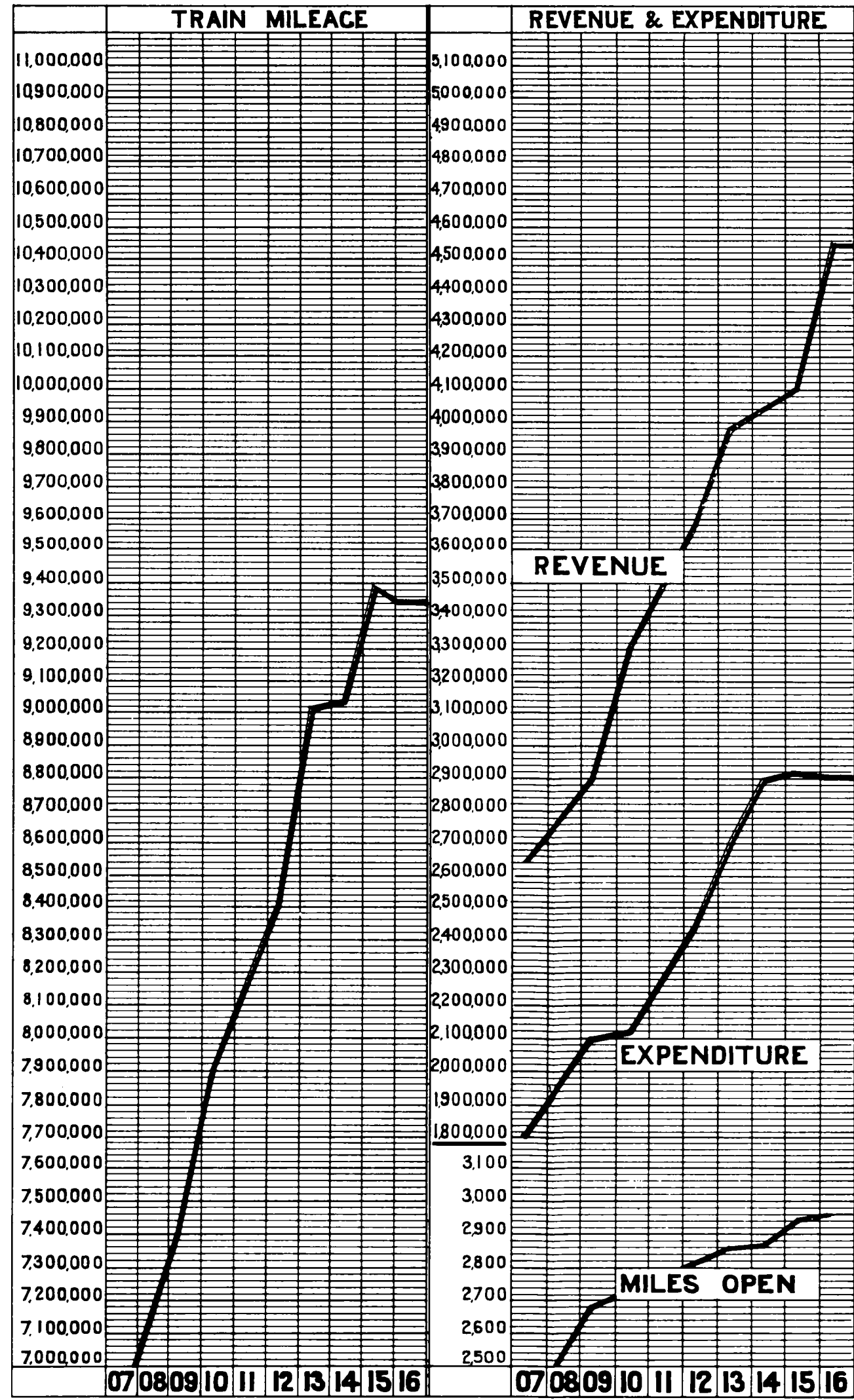
Type.	Number of Engines.		Engine-mileage.				Quantity of Stores.				Cost.				Cost per Engine-mile, in Pence.				Days in Steam.	Type.		
	Average Speed—Miles per Hour.		Detail.		Running.		Repairs.		Running.		Repairs.		Running.		Repairs.		Running.					
	Train.	Shunting and Empty.	Work-train.	Total.	Coal.	Oil.	Tallow.	Waste.	Wages and Material.	Stores.	Fuel.	Wages.	Total.	Wages and Material.	Stores.	Fuel.			Wages.	Total.
NELSON SECTION.																						
D*	..	..	337	415	68	820	216	7	17	17	1	13	20	51	4-98	0-29	3-80	5-85	14-92	28	D.
F and FA	..	..	61,462	12,513	230	74,205	20,907	2,268	895	85	85	1,329	1,452	3,614	2-41	0-28	4-30	4-70	11-69	971	F and FA.
WF..	..	..	17,515	1,379	..	18,894	7,265	571	232	21	21	466	337	959	1-72	0-27	5-86	4-28	12-13	177	WF.
Total General charges	..	..	79,314	14,307	298	93,919	28,388	2,846	147	1,144	107	1,808	1,809	4,624	2-30	0-27	4-63	4-62	11-82	1,176	
	..	..	..	..	..	..	..	..	..	..	..	..	..	894	..	..	..	..	2-28	..	
Totals	..	..	79,314	14,307	4	93,625	..	..	..	..	..	..	..	5,518	..	..	..	..	14-10	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	13†	..	..	..	..	..	..
	..	..	..	..	..	..	..	..	..	..	..	..	..	5,505	..	..	..	..	..	..
PICTON SECTION.																						
D ..	1	18	482	6,299	1,693	8,474	1,971	368	174	19	13	132	296	460	0-54	0-37	3-73	8-39	13-03	210	D.	
FA ..	2	18	35,394	5,116	12	40,522	14,935	1,387	365	45	45	1,003	773	3,000	6-98	0-27	5-94	4-58	17-77	401	FA.	
CS ..	3	18	20,590	9,025	11,219	40,834	30,334	1,428	64	385	50	692	958	2,085	2-26	0-29	4-07	5-63	12-25	589	G.	
WF..	1	25	13,258	3,710	..	16,968	5,347	610	17	162	22	361	366	860	1-57	0-31	5-11	5-18	12-17	172	WF.	
Totals	7	..	69,724	24,150	12,924	106,798	32,587	3,793	131	1,293	130	2,188	2,393	6,405	3-81	0-29	4-92	5-38	14-40	1,372		
General charges	..	..	..	..	..	..	..	..	..	..	..	..	..	840	..	..	..	..	1-88	..	
	..	..	..	..	..	..	..	..	..	..	..	..	..	7,245	..	..	..	..	16-28	..	
Totals	..	..	69,724	24,150	9,237	103,111	..	..	..	..	..	..	..	7,102	..	..	..	..	..	..

* 1 D sold in July. † Mileage run by engines performing work-train services for Maintenance Branch "Working-expenses" classifications. ‡ Credits for same from Maintenance Branch. § 1 G sold in July.

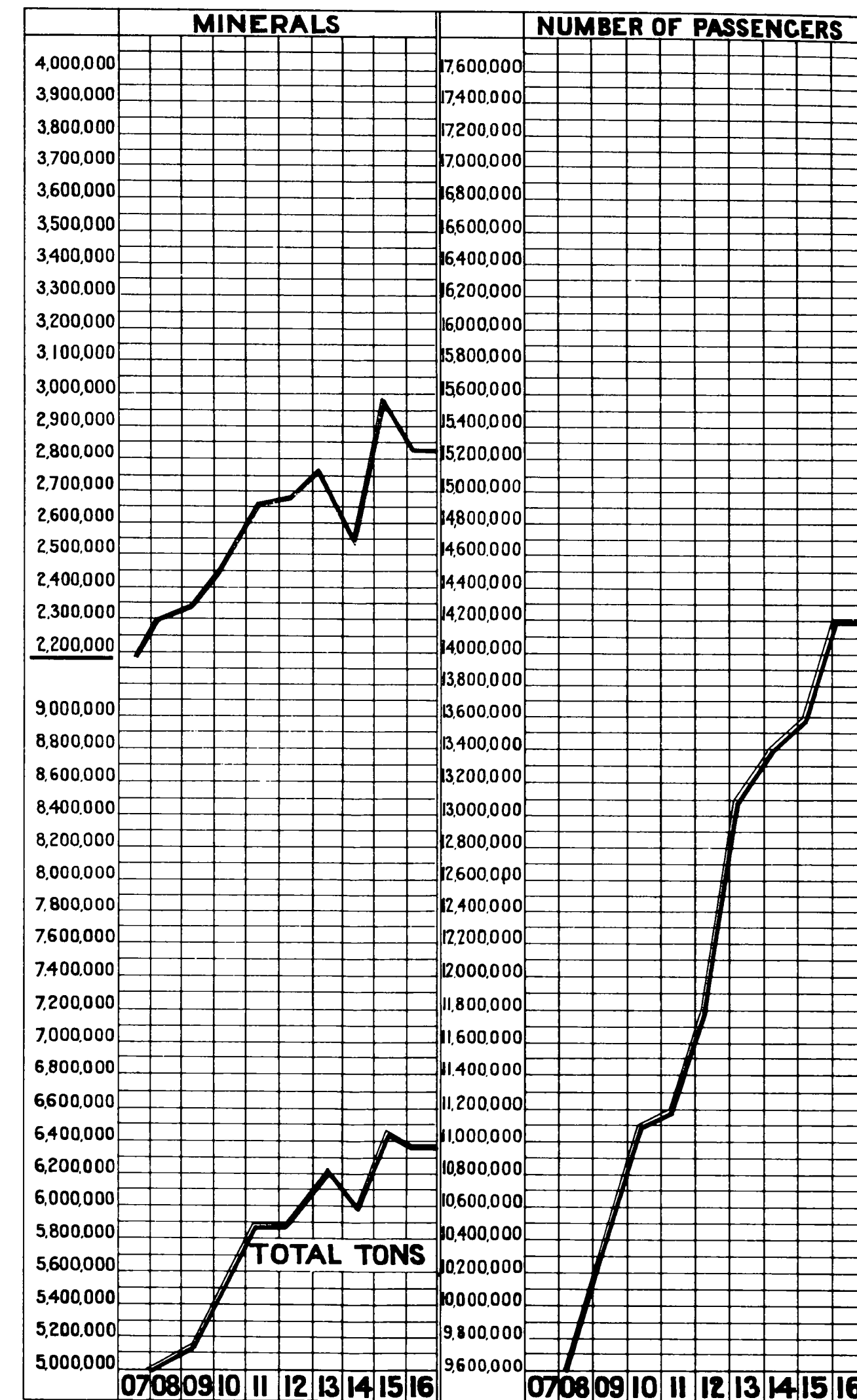
NEW ZEALAND GOVERNMENT RAILWAYS



NEW ZEALAND GOVERNMENT RAILWAYS



NEW ZEALAND GOVERNMENT RAILWAYS



BYAW IAN

BRIDGE

NEW ZEALAND

NEW ZEALAND

EXCHANGES

MERCHANDISE

STANDARD

STANDARD

STANDARD

STANDARD

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200000

300000

400000

500000

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