1937. NEW ZEALAND.

DEPARTMENT OF LANDS AND SURVEY.

SWAMP DRAINAGE.

REPORT FOR THE YEAR ENDED 31st MARCH, 1937, TOGETHER WITH STATEMENTS OF ACCOUNTS...

Presented to both Houses of the General Assembly pursuant to Section 13 of the Šwamp Drainage Act, 1915.

Department of Lands and Survey,

SIR.-

Wellington, 1st August, 1937. In pursuance of section 13 of the Swamp Drainage Act, 1915, I have the honour to forward the report of the Chief Drainage Engineer covering operations on lands proclaimed under the Swamp Drainage Act and amendments. I have, &c., W. Robertson,

The Hon. Frank Langstone, Minister of Lands.

Under-Secretary for Lands.

REPORT OF CHIEF DRAINAGE ENGINEER.

SIR,-

I have the honour to submit my annual report on the areas proclaimed under the Swamp Drainage Act, 1915, and its amendments.

Kaitaia Drainage Area (61,430 Acres), Mangonui County.

The maintenance of completed works was the only work of importance undertaken during the year. As usual the contracts were called for in the late summer, and all this work was satisfactorily carried out by the contractors. In addition to the cleaning of drains in the autumn, it is found necessary to carry out minor cleaning at other times of the year. In the lower-lying areas it would be a decided benefit if the flat, gradient drains could be given an extra dragging in the spring, but consequent on the response from rates not being very satisfactory it is impossible to provide for extra work of this nature.

Rainfall and river-gauge readings were taken throughout the year as shown on schedule

RAINFALL AND RIVER-GAUGE READINGS AT KAITAIA FOR YEAR ENDING 31ST MARCH, 1937.

	Month.			Rainfall	Wet Days	Highest Rain- fall for Twenty-four	Kaitaia River-gauge, Wa kuriki Bridge.	
Month.			(Inches).	in Month.	Hours (Inches).	Highest.	Lowest.	
	1936.							
April				1.58	10	0.34	$53 \cdot 7$	52.6
May				$1 \cdot 40$	9	0.60	$58 \cdot 4$	$52 \cdot 5$
June				$3\!\cdot\!52$	18	1.15	$56 \cdot 6$	$52 \cdot 5$
July				$5 \cdot 26$	24	1.15	$59 \cdot 7$	$54 \cdot 0$
August				$5 \cdot 99$	17	1.73	$66 \cdot 3$	$53 \cdot 6$
September				$3 \cdot 09$	19	0.94	$58 \cdot 4$	$53 \cdot 6$
October				$3 \cdot 73$	12	1.54	$65 \cdot 4$	$52 \cdot 9$
November				$7 \cdot 87$	15	$2 \cdot 34$	$67 \cdot 8$	$53 \cdot 6$
December				$4 \cdot 24$	7	2.00	66.0	$52 \cdot 9$
	1937.				1			
January				$6 \cdot 84$	15	$1 \cdot 37$	$64 \cdot 5$	$54 \cdot 0$
February				$3 \cdot 10$	9	0.97	$55 \cdot 8$	$52 \cdot 7$
March		• •		$2 \cdot 12$	8	1.33	$55 \cdot 9$	$52 \cdot 7$
Tota	ls			48.74	163			

Stop-banks.—As stated in the previous year's report, a very high spring tide topped the stop-banks on the foreshore and did considerable damage to these banks and also to the settlers' land adjoining. The repairing of these banks was taken in hand immediately, and is now well on towards completion. These banks were constructed with a view to preventing only ordinary spring tides from overflowing the lands, and now the settlers affected have requested that the banks should be enlarged so as to safeguard their lands from the extraordinary high tides. This is being investigated, and from the data now available it is evident that a very large expenditure would be necessary to achieve that object.

Drains.—Some 65 miles of drains were cleaned during the year.

Whangatane Spillway.—The erosion at the spillway intake has not increased very much during the year, but shortly it will be necessary to erect some protective works in this locality. The construction of a breastwork on the western side of the channel would remove the source of danger, and with this object in view inquiries are being made as to the amount of steel-sheet piling that can be made available from other works.

There is no question that the construction of this overflow channel is the key to the solution of the drainage problem in the district, but it is not large enough to cope with the considerable volume of

water that is to be expected periodically.

Kaitaia River.—The river above the spillway intake is definitely enlarging its channel, and as a

result of this erosion the banks, in places, have slipped in to a considerable extent.

The contract mentioned in last year's report for the clearing of fallen timber from the channel was completed before last winter, and appreciably improved the carrying-capacity of the river.

Works Expenditure.—The total expenditure for the year was £1,820.

Drainage Rates.—The following schedule shows the position of the rates struck and collected in the two wards:

		Capi	ital.	Maintenance.		
	ppersonny = makkin	Struck.	Collected.	Struck.	Colle ct ed.	
Town Rural		 £ s. d. 411 8 8 3,136 18 9	£ s. d. 221 19 6 374 3 4	£ s. d. 201 1 3 1,357 12 11	£ s. d. 86 18 8 207 12 9	

HIKURANGI DRAINAGE AREA (50,000 ACRES), WHANGAREI COUNTY.

No work has been carried out on this area during the year under review, and all staff has been disbanded or transferred to other localities. The investigation made by the District Engineer and myself definitely showed that it was impossible to prevent flooding on the swamp area, and that if further major works were carried out between Lewis's Bridge and the falls at Ruatangata there was very grave danger of serious slips occurring in this narrow valley, whilst it was certain that the hastened discharge would detrimentally affect the low-lying lands farther down the Wairua River.

The stores at Apotu are being overhauled, and every endeavour is being made to utilize them on other works, but, unfortunately, there is a lot of plant that has been used on the

works for many years and is now practically worn out and unserviceable.

The works expenditure was—Capital, £346 8s. 4d.; maintenance, £115 19s.: total,

 $\pounds 462$ 7s. 4d.

Waihi Drainage Area (20,000 Acres), Tauranga County.

The drainage outlets, stop-banks, and flood-gates in this area were maintained by the Department, improvements and replacements being carried out when desirable. The total length of drains annually maintained is 37 m. 73 ch., the bulk of this work being done by contract. Two lengths of drain totalling 225 ch. were reconditioned during the year.

A gang was employed removing willows and other obstructions from the upper reaches of

the Kaikokopu Stream.

Two new steel flood-gate doors were installed to replace concrete doors, and the outlets of

these gates were protected with stone.

The Monighan dredge was employed for four months of the year removing accumulated silt from the upper reaches of the Wharere Canal. The distance covered during this period was 115 ch., a total of 30,438 cubic yards of spoil being removed. It will be necessary to consider in the near future the employment of a light walking-plant on maintenance dredging in the lower reaches of the Kaikokopu Canal.

Flax-milling was carried out throughout the season by the company which leases the major portion of the unsettled swamp area. Development was proceeded with by the Department on a swamp area west of the Wharere Canal, the total area grassed to date being 738 acres. This land is being prepared as dairy-farms, five farms being fully equipped for this purpose. Bullocks and sheep are being run on the balance of the area to assist consolidation and to control ragwort. A water-supply was provided for the area, and an electrically operated flood-pump will shortly be installed to maintain a lower average water-level in the low-lying areas.

Late in the year the Native Department commenced development operations in the

Waewaetutuki Block.

The expenditure during the year was £1,109 12s. 8d.

Drainage rates struck totalled—Capital £658 7s. 9d., maintenance £934 2s. 7d., whilst the amount collected was—Capital £322 19s. 5d., maintenance £812 1s. 11d.

Poukawa Drainage Area (15,567 Acres), Hawke's Bay.

Maintenance of completed work was carried out during the year, and I am indebted to the Commissioner of Crown Lands, Napier, for carrying out inspections of cleaning contracts.

The expenditure during the year was £94 1s. 9d.

Rates struck amounted to £1,121 1s. 5d., whilst £679 13s. 9d. was collected by the District Office at Napier.

I have, &c., R. G. Macmorran, Chief Drainage Engineer.

SWAMP LAND DRAINAGE SCHEMES.

RATE ACCOUNTS FOR YEAR ENDED 31ST MARCH, 1937.

KAITAIA DRAINAGE AREA.

KAITAIA DRAINAGE AREA.									
	R	ural Town	ccounts : Capital.	Rural Town					
Dr.	Subd £	$egin{array}{lll} ext{ivision.} & ext{Subdivision.} \ ext{s. d.} & ext{s. d.} \end{array}$		Subdivision. Subdivision.					
Transfer to Reserve Fund Interest charge	$\begin{array}{ccc} & 391 \\ & 2,248 \end{array}$	$egin{array}{cccccccccccccccccccccccccccccccccccc$. 1,077 15 2 45 10 4					
Remissions Balance at 31st March, 1937	188 1,208	8 0 0 15 9 0 6 68 14 2		- 2,733 10 9 411 8 8					
	£4,036	8 6 £479 9 11	Townsy, to per center unpute tares	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
		General Rate Acco	unts: Maintenance,						
		ural Town ivision. Subdivision.	1	Rural Town Subdivision. Subdivision.					
Dr. Cost of maintenance	£ 1,191 1	s. d. £ s. d.	Cr,	£ s. d. £ s. d.					
Remissions	37 1	12 4 0 4 11	Rates levied	. 1,344 12 4 201 1 3					
Balance at 31st March, 1937	£1,486 1			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					
	Suff								
Waihi Drainage Area. Special Rate Accounts: Capital.									
		ehina Kaikokopu ard. Ward.	-	Pukehina Kaikokopu Ward. Ward.					
Dr. Transfer to Reserve Fund	£	s. d. £ s. d. 2 6 51 3 9		£ s. d. £ s. d. 867 2 7 31 2 4					
Interest charges Remissions	215	17 6 323 16 3	Rates levied	000 0 7 405 0 4					
Balance at 31st March, 1937	990 j			. 55 16 11 22 15 9					
	£1,240 l	11 1 £461 4 5		£1,240 11 1 £461 4 5					
		General Rate Acc	ounts: Maintenance.						
Pukel Wa	rd. W	kokopu Central Vard. Ward.	Pukehin Ward.	Ward. Ward.					
Dr. £ s. Balance	d₁ £	s. d. £ s. d. 43 10 7							
Cost of maintenance 135 9 Remissions	6 812 I 18 I			4 314 19 0 399 15 7					
Balance at 31st March, 1937 832 11	6 170	2 8	paid rates 12 4 : Balance at 31st March,	5 14 12 9 21 3 7					
A ARRIVAN AND AND AND AND AND AND AND AND AND A			1937	37 11 7					
£968 1	0 £1,002	0 11 £458 10 9	£968 1	0 £1,002 0 11 £458 10 9					
	Poukawa Drainage Area. Special Rate Account: Capital.								
Dr.		£ s. d	\hat{Cr} .	£ s. d.					
Remissions		£ s. d 11 15 4 128 15 8	Cr. Balance Rates levied	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions	••	£ s. d 11 15 4	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates	280 0 5					
Remissions		£ s. d 11 15 4 128 15 5 948 14 9	Cr. Balance	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions		£ s. d 11 15 4 128 15 3 948 14 5 366 17 4 £1,456 2 8	Cr. Balance	280 0 5 1,121 1 5 55 0 10					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		£ s. d 11 15 4 128 15 5 948 14 6 366 17 4 £1,456 2 8 General Rate Ac £ s. d.	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions		£ s. d 11 15 4 128 15 5 948 14 5 366 17 4 £1,456 2 8 General Rate Ac	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions		£ s. d 11 15 4 128 15 5 948 14 5 366 17 4 £1,456 2 8 General Rate Ac £ s. d 55 13 1	Cr. Balance	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions		£ s. d 11 15 4 128 15 5 948 14 9 366 17 4 £1,456 2 8 General Rate Ac £ s. d 55 13 1 218 14 4	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions	AND PAYN	## s. d ## 11 15 4 ## 128 15 5 ## 948 14 9 ## 1456 2 8 ## General Rate Ac ## 5. d ## 55 13 1 ## 274 7 5 ## 274 7 5 ## MENTS ACCOUNT	Cr. Balance	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
Remissions	AND PAYN ts. Works t £ s.	£ s. d 11 15 4 128 15 5 948 14 6 366 17 4 £1,456 2 8 General Rate Ac £ s. d 55 13 1 218 14 4 £274 7 5 MENTS ACCOUNT file Consolidated Fund. Gustarian Fund. d. £ s. d.	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance FOR YEAR ENDED 31ST MARCH, Payments. Kaitaia Drainage Area: Mainten-	\$\begin{array}{cccccccccccccccccccccccccccccccccccc					
Remissions	AND PAYA ts. Works t £ s.	£ s. d 11 15 4 128 15 5 948 14 6 366 17 4 366 17 4 456 2 8 6 17 13 1 218 14 4 4274 7 5 6 10 10 10 10 10 10 10 10 10 10 10 10 10	Cr. Balance Rates levied	£1.456 2 8 £1.456 2 8 £1.456 2 8 £1.456 2 8 £274 7 5 £274 7 5 £274 7 5 £274 7 5 £274 7 5 £274 7 5					
Remissions	AND PAYN ts. Works t t £ s.	## S. d ## 11 15 4 ## 128 15 5 ## 948 14 9 ## 366 17 4 ## 1456 2 8 ## General Rate Ac ## \$\frac{\psi}{2}\$ s. d ## 55 13 1 ## 218 14 4 ## 274 7 5 ## MENTS ACCOUNT Gile Consolidated Fund. ## d. ## 5. d ## 454 11 1 ## 322 19 5	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance FOR YEAR ENDED 31ST MARCH, Payments. Kaitaia Drainage Area: Maintenance, completed works Waihi Drainage Area: Maintenance, completed works Poukawa Drainage Area.	\$\begin{array}{cccccccccccccccccccccccccccccccccccc					
Remissions	AND PAYM ts. Works t £ s.	£ s. d 11 15 4 128 15 5 948 14 6 366 17 4 456 2 8 6 17 4 218 14 4 218 14 4 274 7 5 218 14 4 274 7 5 218 14 4 454 11 1	Cr. Balance Rates levied	£1.456 2 8 £1.456 2 8 £1.456 2 8 £1.456 2 8 £274 7 5 £274 7 5 £274 7 5 £274 7 5 £274 7 5 £274 7 5					
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Remissions Transfer to Reserve Fund Interest charge Balance at 31st March, 1937 Dr. Maintenance, completed works Balance Receip Rents from national endowmen land in Waihi Drainage Area Special rate for interest and sinkin fund— Waihi Drainage Area Kaitaia Drainage Area General rate for administration an maintenance— Waihi Drainage Area Kaitaia Drainage Area Kaitaia Drainage Area Kaitaia Drainage Area	AND PAYA ts. Works t £ s. d	## s. d ## 128 15 5 ## 948 14 9 ## 948 14 9 ## 1,456 2 8 ## General Rate Ac ## s. d ## 55 13 1 ## 218 14 4 ## 274 7 5 ## MENTS ACCOUNT ## 616 Consolidated Fund. ## d. ## s. d. ## 54 11 1 ## 322 19 5 596 2 10 679 10 6 ## 812 1 11 ## 294 11 ##	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance FOR YEAR ENDED 31ST MARCH, Payments. Kaitaia Drainage Area: Maintenance, completed works Waihi Drainage Area: Maintenance, completed works Poukawa Drainage Area— Drainage works, &c. Maintenance, completed works Hikurangi Drainage Area— Drainage works, &c. Maintenance, completed works Refund of rates	1937. Public Works Fund. £ s. d. 274 7 5 2274 7 5 2274 7 5 2274 7 5 2274 7 5 24274 7 5					
Remissions Transfer to Reserve Fund Interest charge Balance at 31st March, 1937 Dr. Maintenance, completed works Balance RECEIPTS Receip Rents from national endowmen land in Waihi Drainage Area Special rate for interest and sinkin fund— Waihi Drainage Area Kaitaia Drainage Area Ceneral rate for administration an maintenance— Waihi Drainage Area Ceneral rate for administration an maintenance— Waihi Drainage Area Kaitaia Drainage Area Seas Seas Seas Seas Seas Seas Seas Seas	AND PAYN ts. Works t £ s. d	## s. d ## 11 15 4 ## 128 15 5 ## 948 14 6 ## 1456 2 8 ## General Rate Ac ## \$ s. d ## 55 13 1 ## 218 14 4 ## 274 7 5 ## 274 7 5 ## MENTS Account file Consolidated Fund. ## d. ## s. d. ## 454 11 1 ## 322 19 5 ## 596 2 10 ## 679 10 6 ## 1294 11 5 ## 0 3 5 ## 0 0 6	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count: Maintenance. Cr. Balance FOR YEAR ENDED 31ST MARCH, Payments. Kaitaia Drainage Area: Maintenance, completed works Waihi Drainage Area: Maintenance, completed works Drainage works, &c. Maintenance, completed works Hikurangi Drainage Area— Drainage works, &c. Maintenance, completed works Refund of rates Plant, &c. (general) Transfer, receipts to Treasury	\$\begin{array}{cccccccccccccccccccccccccccccccccccc					
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Remissions Transfer to Reserve Fund Interest charge Balance at 31st March, 1937 Dr. Maintenance, completed works Balance RECEIPTS Receip Rents from national endowmen land in Waihi Drainage Area Special rate for interest and sinkin fund— Waihi Drainage Area Kaitaia Drainage Area Poukawa Drainage Area Ceneral rate for administration an maintenance— Waihi Drainage Area Kaitaia Drainage Area Roukawa Drainage Area Kaitaia Drainage Area Kaitaia Drainage Area Raites paid in advance Thirds Sundry rents Miscellaneous Credits in reduction of expenditure	AND PAYM ts. Works t £ s. d	## s. d ## 128 15 2 ## 148 15 2 ## 148 15 2 ## 148 16 2 8 ## 366 17 4 ## 1456 2 8 ## 366 17 4 ## 1456 2 8 ## 366 17 4 ## 155 13 1 ## 155 1	Cr. Balance Rates levied Penalty, 10 per cent. unpaid rates count : Maintenance. Cr. Balance FOR YEAR ENDED 31ST MARCH, Payments. Kaitaia Drainage Area : Maintenance, completed works Waihi Drainage Area : Maintenance, completed works Poukawa Drainage Area— Drainage works, &c. Maintenance, completed works Hikurangi Drainage Area— Drainage works, &c. Maintenance, completed works Hikurangi Drainage Area— Drainage works, &c. Maintenance, completed works Hiransfer, receipts to Treasury Adjustment Account Transfer, receipts to Public Works	\$\begin{array}{cccccccccccccccccccccccccccccccccccc					
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BALANCE-SHEET AS AT 31ST MARCH, 1937.

	BALANCE-	SHEET AS AT	31st March, 1937.
${\it Liabilities.} \\ {\it Capital Account, Public Works Fund}$		£ s. d. \ 692.020 18 5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Reserve: Repayment capital costs—		,	Allocated cost of works on which rates are levied—
Kaitaia Drainage Area— £ s. d.	£ s. d.		Rural subdivision 60,000 0 0
Rural subdivision 2,423 15 5 Town subdivision 331 4 9		2	Town subdivision 8,200 0 0 68,200 0 0
Waihi Drainage	2,755 0 2		Excess cost of works not recoverable 155,944 14 2
Area— Pukehina Subdi-			Interest Account — Proportion chargeable to district 141,686 17 9
vision 236 16 7			chargeable to district 141,686 17 9 297,631 11 11 Waihi Drainage Area—
Kaikokopu Subdivision 355 4 11	~00 1 A		Allocated cost of works on which rates are levied—
Poukawa Drainage Area	$592 ext{ } 1 ext{ } 6$ $595 ext{ } 13 ext{ } 3$		Pukehina Subdivision 5,000 0 0
Rate Accounts—		3,942 14 11	Pukehina Subdivision . 5,000 0 0 Kaikokopu Subdivision . 7,500 0 0 Central Subdivision . 49,414 3 6 61 914 3 6
Special Rate Accounts : Capital— Kaitaia Drainage		:	Excess cost of works not recover-
Area— £ s. d.			able 24,526 1 6 Interest Account — Proportion
Rural subdivision 1,208 0 6 Town subdivision 68 14 2			chargeable to district 43,052 11 11 67,578 13 5
Waihi Drainage	1,276 14 8		Poukawa Drainage Area— Drainage works 16,013 19 9
Area— Pukehina Subdi-		,	Interest Account: Proportion
vision 990 11 1 Kaikokopu Sub-			chargeable to district $2,247$ 1 4
division 76 8 6	1,066 19 7		Hikurangi Drainage Area— Drainage works
Poukawa Drainage Area			Interest Account: Proportion
General Rate Accounts: Mainten-		2,710 11 7	382,462 9 4
ance— Kaitaia Drainage			Mangawai Drainage Area— Drainage works 1,877–19 3
$\begin{array}{cccc} {\rm Area-} & {\rm \pounds} & {\rm s.~d.} \\ {\rm Rural subdivision.} & 257 & 9 & 10 \end{array}$			Interest Account: Proportion chargeable to district . 1,411 5 0
Town subdivision 103 15 5	361 5 3		3,289 4 3
Waihi Drainage	001 0 0		Drainage works 4,355 2 11 Interest Account: Proportion
Area— Pukehina Subdivi-			chargeable to district 2,892 16 7 7,247 19 6
sion 832 II 6 Kaikokopu Subdi-			
	1,002 14 2		Plant and machinery
Poukawa Drainage Area	218 14 4	1,582 13 9	Loose tools
Sundry creditors—	18 8 9		Sundry debtors for rates— Drainage District. Capital. Maintenance.
Miscellaneous	0 15 4	19 4 1	f. s. d. £ s. d. £ s. d.
Rents charged in advance		$223 \ 18 \ 0$	Kaitaia 14,550 10 3 5,027 19 2 19,578 9 5 Waihi 5,229 10 0 6,331 7 4 11,560 17 4 Poukawa 2,506 6 10 169 4 0 2,675 10 10
Payments in advance— Rents	5 2 0		Sundry debtors—
Rates	4 18 4	10 0 4	Rent under section 4 (2), Swamp Land Drainage Amendment Act,
Suspense Account Writings-off in Suspense		0.7.0.7.0.0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
Treasury Adjustment Account		200 =04 34 5	Law-costs 679 6 1 Miscellaneous 48 3 0
			Departmental
			Rate Account—
			General Rate Account—Maintenance— Waihi Drainage District: Central Subdivision 37 11 7
			Maintenance-costs : Hikurangi
			Premiums on conversion
			Central Ward 9,829 5 6 Losses in Suspense 810 19 2
			Cash in transit from Post-office
		£990,118 0 10	£990,118 0 10
			W. RODERWSON, Under Secretary for Lands

W. Robertson, Under-Secretary for Lands. $W_{\rm M.}$ E. Shaw, Chief Accountant.

I hereby certify that the Rate Accounts and Balance-sheet have been duly examined and compared with the relative books and documents submitted for audit, and correctly state the position as disclosed thereby, subject to the explanatory notes dealing with Departmental Accounts generally as appearing at commencement of Parliamentary Return [B.-1. Pt. IV.]—J. H. FOWLER, Controller and Auditor-General.

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