$\begin{array}{ccc} & 1932. \\ \text{N E W} & \text{Z E A L A N D}. \end{array}$

PUBLIC SERVICE SUPERANNUATION FUND.

ACTUARIAL EXAMINATION AS AT 31st MARCH, 1930.

Laid before Parliament in pursuance of Section 49 (4) of the Public Service Superannuation Act, 1927.

REPORT

BY THE ACTUARY APPOINTED BY HIS EXCELLENCY THE GOVERNOR-GENERAL TO MAKE THE ACTUARIAL EXAMINATION OF THE PUBLIC SERVICE SUPERANNUATION FUND.

Government Actuary's Department, Wellington, 25th November, 1931.

- 1. I HAVE the honour to submit the following report on the Public Service Superannuation Fund as at the 31st March, 1930, as required by section 49 of the Public Service Superannuation Act, 1927
- 2. The scheme, which came into operation on the 1st January, 1908, embraces, with the few exceptions set out in section 54 of the Act, all permanent public servants outside the Government Railways Superannuation Fund and Teachers' Superannuation Fund.
- 3. The contributions and the benefits provided by the Act, together with the statements showing the progress of active membership, discontinuance of membership from various causes, and the progress of pensions for each year, will be found in Tables I to IV of the appendix to this report. The ages of the contributors at the date of the valuation, together with their contributions and other particulars are shown in Table V; and the pensions granted during the triennium, with the ages at which they were granted, in Table VI.
 - 4. The income and outgo of the fund since the previous valuation were as follow:—

Consolidated Revenue Account of the Public Service Superannuation Fund from the 1st April, 1927, to the 31st March, 1930.

	ALC:		, ,		,	
Income.		£	8.	d.	Outgo. \mathfrak{L} s.	d.
Funds at 1st April, 1927 .		2,493,790	7	11	Pensions to members 961,556-19	6
Members contributions .				6	1 Chalons to widows that children	5
Transfers from other funds .					Contributions returned	
			0	0	I mister to come remain	9
Subsidy from Cook Islands a	and Samos		10		Loss on realization of securities 3,902 11 Salaries 8,282 11	5
Administrations		3,129	19	1	Salaries	
Government subsidy under so	ection 114;	42,661	19	8	Travelling and office expenses 4,697 19	
Public Service Superannua		448 004		-	Tito on the same of the same o	
Interest on investments . Interest on arrears of contribu	itions	017		_		
TD:		0.70	4	6		
0.0		199	2	10		
S. S					P4 114 600 70	4
		£4,114,000	10	4	£4,114,000 10	4
					Williams 12 to 10 co. of the co.	

5. It will be noted that the funds shown herein differ from those shown in the annual report of the Superannuation Fund Board by £64,500, which sum the Board regard as unearned subsidy, and therefore treat as a liability. In this connection I would point out that the accounts of a superannuation fund are obviously not designed to show the annual profit or loss of the fund, nor does the balance-sheet make any pretensions to show the real contingent liabilities of the fund in connection with pensions or other benefits. Under the circumstances, no good purpose is served by so understating the funds, and the Board is recommended to bring its accounting methods into line with the world-wide practice of financial institutions controlling life-assurance and other funds whose liabilities involve contingencies which cannot be measured by ordinary accountancy standards.

6. Income.—On the income side the chief item requiring comment is the Government subsidy. Compared with the annual subsidies reported as necessary in the last actuarial report, the subsidies paid in during the triennium exhibit a shortage of approximately £500,000, apart from the loss of interest thereon.

The effective rates of interest credited to the fund during each year of the triennium are given

below together with those of the previous period for the purpose of comparison.

	Rate			Rate
Year.	per Cent.	Year.		per Cent.
	£ s. d.			£ s. d.
1924-25	 5 15 1	1927-28	 	5 18 6
1925-26	 5 17 11	1928-29	 	5 14 6
1926-27	 5 17 9	1929 - 30	 	5 14 2

The drop in the interest yield for the last two years appears to have been due to a reduction of the amount invested in mortgage securities, and increased investments in debentures and Government securities.

7. Outgo.—Retiring-allowances are increasing, and will continue to do so for many years to come. It will be noted that the outgo for benefits during the triennium exceeds the total of the contribution income and the Government subsidy, and is about 75 per cent. of the combined income from contributions, interest, and Government subsidy. As was pointed out in my last valuation report, these high percentages are somewhat disturbing, since the liabilities are essentially of a deferred nature, and consequently funds should be increasing rapidly while the fund is young and the membership is expanding.

DATA.

8. The preliminary particulars required for this examination have been obtained from cards supplied by the Secretary of the Superannuation Fund—a separate card being compiled for each member who was in the Service at the valuation date or who had died or withdrawn since the inception of the fund—and these particulars form the main basis of this investigation and valuation.

THE VALUATION.

- 9. The main object of an actuarial valuation is to ascertain whether the current funds, together with the present value of the future contributions, will be sufficient to meet the future liabilities. Before the valuation can be carried out it is necessary to make a careful estimate of the various factors on which the payment of the benefits and contributions is dependent. These factors may be briefly summarized as follow:—
 - (a) Rate of interest;
 - (b) Mortality-rates of pensioners;
 - (c) Average salary scales;
 - (d) Mortality-rates of contributors;
 - (e) Voluntary-withdrawal rates of contributors;
 - (f) Retirement-rates of contributors;
 - (y) Marriage-rates of contributors;
 - (h) Probability of a member leaving children under fourteen years of age, and the average number of such children;
 - number of such children;
 (i) Remarriage-rates of members' widows.
- 10. The rate of interest used in valuing benefits and contributions was $4\frac{1}{2}$ per cent., as the fund is State-guaranteed.
- 11. The mortality-rates adopted for pensioners were those used in the previous valuation, and were based on an investigation of the combined experience of the three Government Superannuation Funds (Public Service, Railways, and Teachers) for the period 1919–1927.
- 12. Average salary scales in respect of males and females separately were constructed for the year immediately following the valuation date, and the resulting ratios of increase from age to age were applied to the actual salary of each contributor as at the 1st April, 1930.
- 13. The rates of mortality, withdrawal, and retirement of male contributors used in the valuation were based on an examination of the fund's experience during the triennium under review, together with that of each of the two preceding triennia.

As regards mortality, the experience of the whole three triennia was employed as the larger total of deaths recorded could reasonably be expected to minimize the effect of fluctuations, and so yield more reliable averages for each age.

The rates of withdrawal adopted were based solely on the experience of the tricnnium under review, as it was found that they showed a progressive decline during the three valuation periods.

The retirements were again heavy between ages 50 and 59, and as attention has been called in the last two actuarial reports to this feature and to the serious financial effect on the fund of its continuance, the practice of retiring irrespective of age a considerable number of officers with from thirty-five to forty years' service must, for valuation purposes, be regarded as a permanent feature of the fund. The persistence of these heavy rates of retirement between ages 50 and 59 were, as might naturally have been anticipated, accompanied by a flattening of the rates at ages over 60, and this appears to suggest that in future the officers over age 60 retained in the Service will be largely composed of those with only short service to their credit.

Rates of mortality, withdrawal, and retirement in respect of female contributors were constructed

on similar principles.

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Details of the Experience Tables adopted and the Life and Service Tables deduced therefrom are given in Tables VII and VIII of the appendix.

14. The factors necessary for the valuation of widows' and children's benefits were built up from population statistics combined with the experience of the fund itself.

RESULTS OF VALUATION.

15. The Act (section 49 (2)) requires the actuarial report to be so prepared "as to show the state of the fund at the close of the period, having regard to the prospective liabilities and assets.' The valuation has accordingly been made and the results are shown in Table IX of the Appendix, but they may be shortly summarized as follow:—

	£	£
Present value of existing pensions and allowances	11,157,495	3,375,540
Less present value of members' contributions £3,208,114 And less present value of State subsidy under		
section 114 of the Act 570,978	3,779,092	
Total net liabilities Funds in hand		$ \begin{array}{r} \hline 10,753,943 \\ 2,882,504 \end{array} $
Present value of total liability of State		7,871,439 $1,911,111$
Value of future subsidies to be provided for by the State over are present subsidy of £86,000	ad above the	6% 0.00 900

16. The above statement shows a total State liability of £7,871,439, as compared with £6,659,770 at the last valuation, giving an increase of £1,211,669. This increase is mainly due to the accumulation at interest of that part of the State's liability which is unprovided for, and to the number of retirements of comparatively young officers with long service being in excess of the valuation assumptions.

17. As regards the first-mentioned source of valuation loss, it is scarcely necessary to point out that if a fund is in deficiency at one valuation, the amount of the deficiency at the succeeding valuation will, all other things being equal, increase at compound interest, since, in addition to the shortage in capital, the fund is deprived of the interest which that capital would have earned

during the valuation period.

Reference has been made in previous valuation reports to the serious drain on the fund due to early retirements from causes other than medical unfitness. While in the case of those officers who are retired at ages ranging from 55 to 60 after completing forty years' service, the additional liability is self-evident not only from the greater number of years during which the Superannuation Fund is called upon to pay pensions, but also from the loss of contribution income until age 65, there appears to be a popular and fairly prevalent impression in many quarters that in the case of officers retired after thirty-five years' service, the fund is fully compensated by the fact that the pension is based on thirty-five-sixtieths of salary instead of the maximum of forty-sixtieths. It may not be out of place therefore, for me to state that in spite of the smaller annual pension, the net liability to the Superannuation Fund in respect of the retirement of a physically fit officer with thirty-five years' service is on the average at least 30 per cent. in excess of the net liability in respect of the same officer for a full pension after completing forty years' service.

18. The importance of the ascertainment of the state of the fund in the form given in paragraph 15 lies in the fact that the shortage in the fund to be made good by the State—viz., £7,871,439 is equivalent to an annual interest income (at $4\frac{1}{2}$ per cent.) of £354,215. It follows that if any less annual sum than £354,215 is paid in by the State as subsidy the total deficiency will increase, and the subsidy must accordingly by way of compensation rise later on to a much higher figure than £354,215 per annum in respect of present contributors alone. If, however, any annual amount in excess of £354,215 is paid in, the fund would, in respect of present members, attain solvency within a definite period of time. It should be clearly understood that this amount of £354,215 is a perpetuity, and does not cease with the lifetime of the present members, nor does it include any subsidy to new

entrants.

ASCERTAINMENT OF STATE SUBSIDY.

19. The Act, however, does not provide that the subsidy should be determined from the foregoing actuarial ascertainment. It directs the Actuary to show in his report "the probable annual sums required by the fund to provide the retiring and other allowances falling due within the ensuing three years without affecting or having recourse to the actuarial reserve appertaining to the contributors' contributions." I take this to mean that as the contributions are insufficient to provide the full benefits for service after joining the fund, the principle underlying the section is that the State shall postpone till it emerges the liability for pensions arising out of service before joining the fund, and for such part of the pensions arising out of subsequent service as is not covered by the contributors' contributions.

I estimate the pensions falling due during the financial years 1930-31, 1931-32, and 1932-33, the amounts provided by the contributions, and the subsidies payable on the basis laid down by the Act, to be as follow:

	1930-31.	1931-32.	1932 - 33.
	£	£	£
Estimated pensions	385,447	394,189	406,900
	141,180	147,362	155,060
Amount due to be paid by the State in respect of	<u>.</u>		
the three years mentioned (but see also next	;		
paragraph)	244,267	246,827	251,840
Man Not also de			

20. The above figures would give for the years 1930-31, 1931-32, and 1932-33 an average subsidy of approximately £248,000 per annum, or £162,000 more per annum than is at present being paid. The following considerations, however, must be taken into account:

(a) The actuarial recommendations made in the past in pursuance of the Act have not been fully carried out, the actual payments into the fund to the 31st March, 1930, being short by £1,301,000 of the amounts recommended. From Table X of the Appendix it will be seen that this shortage, accumulated at $4\frac{1}{2}$ per cent. interest to the end of this year, amounts to £1,776,357, and I consider that at least £80,000 per annum will require to be added to the future subsidies on this account.

(b) The State subsidy should also provide year by year the amount charged to the super-annuation fund in administration expenses, less possibly the amount of commission due in connection with investments which might be regarded as a deduction from interest. The payment of expenses from the fund is a definite departure from the original scope of the superannuation scheme, and my interpretation of section 49 (2) of the Act is that expenses amounting to say £4,000 per annum should form part

21. I have therefore to report that in accordance with the system laid down by the Act the annual subsidy required for each year of the period ending 31st March, 1933, is as follows:-

Subsidy now being paid							£ 86,000
Further annual subsidy 1	required-			• •		£	,
Paragraph 20						162,000	
Paragraph 20 (a)						80,000	
Paragraph $20 (b)$						4,000	0.10 0.00
						,	246,000
A . T 1 1 1 1	f 41		A 91 105	91 99 an	J 1099	29 6	222 000
Annual subsidy required	for the	years 193	0-31, 193	31-32, and	d 1932-	-33 £	332,000

When making provision for this annual subsidy it is important to see that it is back-dated to 1930, and that interest at the rate of $4\frac{1}{2}$ per cent. per annum is added to any portion paid late.

22. In my last actuarial report I drew attention to the method laid down by the Act of arriving at the State's subsidy, and suggested in lieu thereof an automatic basis which, although requiring increased payments at the outset, would minimize the rate of increase in future subsidies.

It is not necessary to add anything further to the remarks made in that report, beyond pointing out that the suggested subsidy of 8 per cent. of the salary roll would now need to be increased by reason of the short-payment in subsidies during the intervening three years.

- 23. Should it be desired to go further than I have indicated so as to more rapidly redeem the deficiency, a higher subsidy could be fixed or alternatively, the fund could be strengthened by suitable amendments to the Superannuation Act. For example, the following alterations in the scheme would considerably lessen the liabilities of the fund without unduly prejudicing contributors:-
- (a) Modify the present right of members to retire by length of service by restricting it to those who have attained a specified age—e.g., age 60 in the case of males, and age 55 in the case of females and also increase by 5 years the minimum age or length of service at which a female contributor has the right to retire. To enable the matter to be more readily visualized I have set down side by side

the present position and that proposed:-Proposed Rights. Present Rights. Males.(i) After age 65. (i) After age 65. (ii) After age 60 if combined with forty years' (ii) After forty years' service. service. (iii) At any age if medically unfit. (iii) At any age if medically unfit. Females.

- (i) After age 55.
- (ii) After thirty years' service.
- (iii) At any age if medically unfit.
- (i) After age 60.
 - (ii) After age fifty-five if combined with thirtyfive years' service.
 - (iii) At any age if medically unfit.

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(b) Eliminate all existing powers of extending the provisions of the Act to provide for early retirements. Such powers appear in the past to have been wrongfully regarded by contributors as options to retire with the Minister's consent, but were clearly designed to cover only exceptional cases.

Some provision should, of course, be made to obviate possible hardship in the case of those compulsorily retired through no fault of their own, especially if such retirements are the result of a

general retrenchment policy.

Two methods of meeting this contingency suggest themselves—namely, to grant pensions based on service on the understanding that the Consolidated Fund pays the necessary retiring-allowances until the attainment of the earliest normal retiring-age set out in (a) above; or, secondly, to provide such actuarially calculated pensions as will throw no additional strain on the Superannuation Fund. It will be seen that the Superannuation Fund is safeguarded by either method, the only difference being that in the first case the extra liability is borne by the State and in the second case by the officer compulsorily retired.

(c) (i) Alter the basis of calculation of "final salary" to the average salary of the last seven

or ten years instead of three years as at present; or

(ii) Disregard for pension (and contribution) purposes any salary increases after a specified

age, say age 55.

Of these two the former has the merit of correlating to some extent the retiring-allowance and the average salary received in the years preceding retirement, while from the viewpoint of the fund the latter alternative has the advantage of being as effectual as the former in minimizing violent fluctuations in the pension liabilities due to salary increases immediately preceding retirement, and at the same time does not penalize those retiring medically unfit to the same extent as the former basis would. In making this suggestion I am fully conscious that it violates one of the canons of a good pension-fund scheme, but, having regard to the constitution of the Public Service Superannuation Fund, and its present parlous financial position, I feel compelled to recommend it for urgent consideration.

GENERAL REMARKS.

24. It is not my function to comment on policy matters, but I would be lacking in my responsibility if I did not enunciate the general principle that any additional financial strain on the Superannuation Fund due to policy measures of Government should be a charge on the Consolidated Fund by way of special subsidy.

Such a method, I may mention, is followed in the South African Public Service Superannuation Scheme, where, if an officer is forced to retire on pension due to a retrenchment scheme or other policy measures, all pension payments up to the date of his attaining the normal pension age are

paid out of public revenue, and not out of the Superannuation Fund.

The Commonwealth of Australia safeguards its Public Service Superannuation Fund by fixing age 65 as the normal pension age, with provision that if any officer is retired after age 60, either

compulsorily or of his own wish, he is granted a reduced pension actuarially calculated.

It is important to note that, although the problem is approached from different angles, both Governments agree in recognizing that the Superannuation Fund must be financially safeguarded in the event of any departure from what might be termed its fundamental obligations to the contributors.

25. In conclusion, I have to acknowledge the assistance of the small but efficient staff engaged in carrying out the heavy work of the valuation.

C. Gostelow,
Fellow of the Institute of Actuaries (London),
Government Actuary.

APPENDIX.

TABLE I.

THE BENEFITS AND CONTRIBUTIONS PROVIDED FOR BY THE ACT.

The contributions vary according to the age at the time when the first contribution becomes

Contributions

Benefits

" "	COLLUI C	COLO COLO I	.OILO H G .					
	Age	30 and	under		 	 	5 per cent. of pay	-
	Over	: 30 an	d not exec	eding 35	 	 • •	6,,	
	,,	35	9,9	40	 	 • • •	7,,	
	,,	40 .	,,	45	 	 	8 "	
	,,	45	,,	50	 	 • •	9 ,,	
	,,	50	• 6		 	 10	0 ,,	

- [I. On Attainment of Pension—Males at Age 65, or after Forty Years' Service; Females at Age 55, or after Thirty Years' Service.
- (1) A pension of one-sixtieth of yearly salary for each year's service, with a limit of forty-sixtieths (two-thirds) of salary. Maximum pension for entrants after 24th December 1909, £300.

(2) Or the option, in lieu thereof, of a return of total contributions.

(Note.—The Minister in charge of a Department may retire contributors on pension in the following cases:—

(a) Where the age of a male contributor is not less than 60, or of a female contributor

- not less than 50.
- (b) Where the age of a male contributor is not less than 55, if his length of service is not less than thirty years.
- (c) Where the length of service of a male contributor is not less than thirty-five years. In any such exceptional cases the Minister may impose upon the retiring contributor such terms and conditions as to payments into the fund or otherwise as he thinks fit.)
- II. On Retirement before Pension Age (on the Grounds of being Medically Unfit for Future Duty).
- At any time, on the certificate of two doctors approved by the Board, a pension of one sixtieth of yearly salary for each year's service, limited to forty-sixtieths.
 Or the option, in lieu thereof, of a return of total contributions.
 (Where officers of the Police Force are incapacitated by injuries received on duty the Board may increase the pension up to three-fifths of salary.)

III. On Retirement before Pension Age (on other Grounds than Medical Unfitness).

- On voluntary retirement or dismissal for misconduct, a return of total contributions.
 On compulsory retirement for any reason other than misconduct, after twenty years' service, a return of total contributions with 3½ per cent. interest.
 - IV. At Death, whether before or after becoming entitled to a Retiring-allowance.
- (1) Leaving no widow or children: A return of total contributions, less any sums received from the fund during lifetime.

the fund during litetime.

(2) Leaving a widow:—

(a) £31 yearly during widowhood; or

(b) A return of total contributions, together with such compensation (if any) as the contributor would have been entitled to receive from the Consolidated Fund on compulsory retirement, less any sums received from the fund during lifetime.

(If death occurs before retirement the compensation is paid from the Consolidated Fund; if after retirement, from the Superannuation Fund.)

(3) Leaving children: 10s. weekly to each child until age 14.

(Note.—The contributions and pensions are payable monthly, and the pensions are computed on the average salary for the last three years.)

TABLE II. STATEMENT OF PROGRESS OF ACTIVE MEMBERSHIP.*

		New Member	s.	Increase by	Promotion.		Discontinue	1.	Total in Force at End of Year.				
Year.	Number.	Salaries.	Annual Contribu- tions.	Salaries,	Annual Contribu- tions.	Number.	Salaries,	Annual Contribu- tions.	Number.	Salaries.	Annual Contribu- tions.		
		£	£	£	£		£	£		£	£		
1908-11	11,036	1,529,468	106,826	251,404	15,141	1,896	276,431	21,297		1,504,441			
1912-16	8,185	732,323				4,012	523,821			2,287,591			
1917-21	9,401	1,181,356		1,906,126		6,932	1,131,248	, ,		4,243,825			
1922-23†	1,200	152,922	8,362			1,993	658,874			3,780,965			
1923-24	1,219	159,496				1,187		16,003		3,822,368			
1924-25	1,921	278,898			12,140	1,160	248,856			4,080,881			
1925-26	1,682	231,794				1,136	254,497			4,262,836			
1926–27	1,518	193,451				932	204,675			4,409,361			
1927-28	1,000	150,212				912		12,4 96		4,499,046			
1928-29	1,046	164,175			8,427	871	204,057			4,621,795	, , , , ,		
1929-30	1,665	215,032	11,737	174,518	9,031	866	203,199	11,716	17,976	4,808,146	263,384		
Totals	39,873	4,989,127	303,822	3,989,497	223,142	21,897	4,170,478	263,580					

^{*} Compiled from Annual Reports.

† Fifteen months.

		TABLE I	II.		
PARTICULARS	OF	DISCONTINUANCE	OF	ACTIVE	Mемвекянір.*

	1			By Wi	thdrawal			By Pensi	ons.			By T	ransfer				
		B y Deat	h.		or nissal,	Old	Age or 1 of Servi		Me	dically	Unfit.	to other Funds.			Total discontinued.		
Year.	 Number.	Amount paid on Retire- ment.	Family Pension.	Number.	Amount paid on Retire- ment.		Amount paid on Retire- ment.	Pensions en- tered upon.	Number.	Amount paid on Retire- ment.	Pensions en- tered upon.	Number.	Amount paid on Transfer.	Number.	Amount paid on Retire- ment.	Pensions en- tered upon.	
1912-16 1917-21 1922-23† 1923-24 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29	 719 63 55 55 61 68 66 66	15,963 42,530 7,672 6,261 5,499 8,850	5,676 7,863 1,117 761 1,220 1,167 1,473 1,976 2,003	3,138 5,618 1,573 986 992 900 739 726 656	53,828 161,160 69,145 44,644 54,465 42,198 36,092 35,292 32,945	320 128 91 150 98 93 115	2,196 5,398 1,853 1,126	46,915 $86,769$ $69,620$	78 84 33 13 11 16 22 24	237	£ 6,211 4,341 6,353 2,405 1,380 1,085 1,418 1,865 2,617 2,805 3,011	$\begin{bmatrix} 24 \\ 4 \\ 5 \\ 11 \\ 9 \\ 5 \\ 3 \\ 6 \end{bmatrix}$	883 862 204 68 272	1,993 $1,187$ $1,160$ $1,136$ 932 912 871	73,107 209,950 78,874 52,099 60,236 51,233 44,616 49,985 43,535	56,932 100,985 73,142 34,400 22,391 43,378 24,939 23,327 30,434	
Totals	 1,723	133070	26,944	17,337	581,782	2,315	10,809	423,875	404	237	33,491	118	4,343	21897	730,241	484,310	

TABLE IV. STATEMENT OF PROGRESS OF PENSIONS.*

		A	ttainment o	f Pensior (Sec	Age or Le tion 26.)	ngth of S	ervice.		Retired	Medically	y Un ût. (S	ection 32.)
Year.		Gı	ranted.	Void	by Death.	In	Force.	Gi	ranted.	Void or	by Death Expiry.	In	Force.
		Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.	Num- ber	Pension.	Num- ber.	Pension.
			£		£		£	1	£		. €	:' . 	£
1908-11†		: 383	41.064	40	3,919	343	37,145	114	9.817	19	1.978	95	7,839
1912-16		370	46,916	122	12,836	591	71,225	74	4,341	50	$\frac{1,373}{3,062}$	119	9,118
1917-21		470	86,769	183	21,082	878	136,912	84	6,354	48	3,162	155	12,310
1922-23‡		322	69,640	63	9,516	1,137	197,036	33	2,405	30	$^{\perp}$ $^{3,102}_{2.087}$	158	12,628
1923-24		128	32,259	49	5,922	1,216	223,373	13	1,380	10	872	161	12,028 $13,136$
192425		91	20,086	54	8,811	1.253	234.648	11	1,084	10	895		
1925-26		150	44,279	57	1	1,346	271,340	16	1,084	17	1,425	162	13,32
1926-27		98	21,666	56	8.152	1.388	284,854	$\frac{10}{22}$				161	13,589
1927-28		93	18,733	48	7.969	, .	295,618	24	1,873	8	812	175	14,650
1928-29	٠.	115	25,625	70					2,618	10	813	189	16,45
1929-30		101		92	12,897		308,346	29	2,805		901	209	18,359
1929-50		101	24,997	92	15,757	1,487	317,586	23	3,012	13	948	219	20,423
Totals		2,321	432,034	834	114,448			443	37,378	224	16,955	••	
			Death of (or. Famil 1 42, &c.)	y Pensior	1.			Total	Pensions.	*2 2	
Year.		Gr	anted.		by Death Expiry.	Tn	Force.	Gr	anted.	,	Void.	In l	Force.
		Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.	Num- ber.	Pension.
			£		£		£		: £		£		£
1908-11†		157	2,466	21	313	136	$2,\overset{x}{1}53$	654	53,347	80	6,210	574	$\frac{x}{47,137}$
		481	7,258	94	1,362	523	8,049	925	58,515	266	17,260	1.233	88,392
1018 01		663	9,979	270	3,895	916	14,133	1.217^{\pm}	103,102	501	$\frac{17,200}{28,139}$	1,235 $1,949$	163,355
1000 001		132	2,001	85	1.200	963	14,934	487	74,046	178	12,803	$\frac{1,949}{2.258}$	
1000 04		93	1.464	71	1,013	985	15,385	234	35,103	130	7,807		224,598
	• •	134	$\frac{1.404}{2.032}$	88		1,031	16,173	$\frac{234}{236}$	23,202	150		2,362	251,894
100 - 00		80	15,718	96							10,950	$\frac{2,446}{500}$	264,146
		116	$\frac{10,718}{3,336}$	78	$2,000 \\ 2.123$	1.015 ± 1.053	29,285	$\frac{246}{236}$	61,686	170	11,618	2,522	314,214
	• •	106	3,046	101			30,498	$\begin{array}{c} 236 \\ 223 \end{array}$	26,875	142	11,087	2,616	330,002
0.000	٠.					1,058	30,808		24,397	159	11,518	2,680	342,881
	٠.	125	3,605	74 97		1,109	32,379	269	32,036	153	15,833	2,796	359,084
ロンニけー・ひひ		152	4,417	1 37	2,667	1,104	34,129	276	32,425	202	19,371	2,870	372,138
				1,075	21,193			5,003	524,734		i		

 $\begin{tabular}{ll} TABLE & V. \\ Present & Annual & Pay & and & Contributions & of & Officers & now in & Service. \\ \end{tabular}$

Age			Number as at	t 31st March, 30.	Present Annual 1st April		Present Annual of from 1st A		Age
	Age attained.		Males.	Females.	Males.	Females.	Males.	Females.	attaine
		1			£	£	£	£	
			1		86		4	.,	15
			36		2,842	382	142	19	16
				_	15,707	2,343	785	117	17
		• •	193	31	37,868	$\frac{2,340}{6,236}$	1,893	312	18
			440	72			3,215	382	19
			630	80	64,289	7,643		633	20
			745	123	89,788	12,670	4,489	822	21
		1	667	142	96,148	16,436	$\frac{4,807}{204}$		22
			596	134	104,072	17,503	5,204	875	
			525	112	109,114	15,968	5,456	798	25
			453	83	103,324	12,713	5,166	636	24
		1	431	107	108,206	17,518	5,410	876	25
			437	81	119,434	14.347	5,972	717	26
	• •		424	110	120, 126	20,510	6,006	1,025	2
	• •		449	88	130,220	16,354	6.511	818	28
		- •		82	130,048	16,892	6,502	845	29
	. •		445	57	153,554	11,383	7,683	571	30
		;	500			14,772	7,722	747	3
	• •		498	72	153,990		7,427	633	3
		- •	468	56	147,315	12,634		538	33
;			415	52	130,461	10,520	6,593	530	3
			418	52	132,395	10,313	6,728		3
,			369	54	118,029	11,206	6,054	578	
;			353	54	112,388	11,305	5,852	595	. 3
,			353	48	115,705	9,895	6,007	535	3
3			374	47	124,217	10,545	6,584	560	3
)			406	33	138,982	7,045	7,296	389	3
)	. •	• •	$\frac{100}{327}$	40	109,201	8,995	5,802	496	4
	• •	• •	$\frac{327}{326}$	37	111,551	8,713	6,131	485	4
		• • •		33	112,136	7,220	6,189	403	4
2		- • :	324		121,130	8,852	6,666	506	4
3			333	36			a	469	4
Ŀ			344	34	122,893	8,310		646	4
•		'	321	4.7	112,921	11,420	6,334		4
3			306	42	109,515	10,137	6,395	595	: 4
7			265	31	95,165	7,929	5,528	458	
3			265	29	99,910	7,120	5,869	419	: 4
)			275	26	104,411	6,932	5,955	426	4
)			248	27	95,181	7,312	5,572	462	. 5
ĺ			238	24	90,979	6,626	5,547	456	5
		• •	222	15	86,380	3,680	5,243	255	5
2	• •	• •		17	90,419	4,809	5,866	323	5
3			216			3,403	4,004	238	5
1			155	15	61,031	2,680	3,592	210	1 8
5			143	11	53,934		3,392	176	
6			127	11	49,790	2,549		77	Ę
7			92	4.	38,131	885	2,591		1
8			101	5	38,583	1,165	2,750	92	
9			94	5	39,985	1,625	2,878	118	
0			73	3	29,211	600	2,154	48	
ĺ			63	1	26,529	280	1,978	20	(
2		, ,	67	1	27,104	225	2,053	22	
3	• •		50	i î	18,807	200	1,502	20	
			52	•	20,117		1,672		
4	• •		$\frac{32}{32}$		14,040		1,172		(
5	• •			1	3,615	270	309	22	
6			8	• 1			190	(
7	a •		4	• •	2,037	•••	81	1	
8			2	• •	870	• •			1 1
9			1		900		81		
0			2		1,018		95	• •	
1							• • • • • • • • • • • • • • • • • • • •	. • •	
$\bar{2}$; ;	2		2,100		189		
$\bar{3}$, .					
4	• •	• •	1						
5	- •	• •	1		600		60		i
J	• •	• •							
	Totals		15,705	2,271	4,449,338	409,070	243,987	21,993	

TABLE VI.

Classification of Pensions granted, showing the Ages at which they were granted, for Period from 1st April, 1927, to 31st March, 1930 (inclusive).*

4		1.		or Len	nt of Pension Age gth of Service. ection 26.)			Medically Unfit. ns 32 and 61.)		dows and children. c. 42, &c.)			Tot	al.	
	e at whic on Grant		N	о.	Amount	N	Го.	Amount	No.	int of sion.		No.		Amoun	ıt
			М.	F.	of Pension.	M.	F.	of Pension.	100	Amount of Pension.	M.	F.	Total	of Pensio	on,
					£ s. d.			£ s. d.		£					s.
				· · ·	• • • • • • • • • • • • • • • • • • • •		::	• •	$\frac{1}{1}$	$\frac{31}{31}$::	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$	1 1		0
								• •	î	31	::	ī	î		ŏ
	• •	• •		• •		٠٠.		• •	2	62		2	2		0
					· · ·			• •	$\frac{1}{2}$	$\begin{array}{c} 31 \\ 62 \end{array}$	• •	$\frac{1}{2}$	$\begin{array}{c c} 1 \\ 2 \end{array}$		$\frac{0}{0}$
	••						::	• •	5	155	!	5	5		0
	• •		1	••	495 0 0				5	155	1	5	6	1	0
	• •	• •	• •		•••	• • •		• •	2	62		2	2	l .	0
				::		1 ::			5	$155 \\ 217$	•••	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	5	i	$\frac{0}{0}$
			2		756 4 0	::	1	••	10	310	2	10	12		4
	• •	٠.	2		367 18 0	٠.		• •	5	155	2	5	7	522 1	
	• •	• •	$\begin{vmatrix} 2\\11 \end{vmatrix}$	1	$\begin{bmatrix} 650 & 7 & 0 \\ 1 & 017 & 0 & 0 \end{bmatrix}$	• •	• •	• •	8	248	2	9	11		7
			51	·i	$\begin{bmatrix} 1,917 & 0 & 0 \\ 7,876 & 7 & 0 \end{bmatrix}$	· ·		• •	8 7	$ \begin{array}{c c} 248 \\ 217 \end{array} $	11 51	8	19 59		$\frac{0}{7}$
			22	î	4,598 9 0	i		• •	9	279	22	10	32		9
		٠.	4		864 6 0	1		76 13 0	9	279	5	9	14	1,219 1	
	• •	٠.	9	2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		198 19 0	8	248	10	10	20		0
			11 17	$\frac{2}{10}$	$\begin{bmatrix} 3,324 & 7 & 0 \\ 4,765 & 9 & 0 \end{bmatrix}$		• •	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	93	12	5	17	3,594 1	
		• •	8	10	$\frac{1}{3},762 \ 17 \ 0$	2		267 13 0	5	$\frac{93}{155}$	10	13 5	$\begin{array}{c c} 31 \\ 15 \end{array}$	5,056 4,185 10	4
		٠.	8	1	2,907 8 0	1		370 9 0	4	124	111	5	16	3,401 1	
		٠.	10	2	$\begin{bmatrix} 2,590 & 16 & 0 \\ 2,000 & 10 & 0 \end{bmatrix}$	2		262 6 0	2	62	12	4	16	/ -	2
	• •	• •	$\begin{array}{c} 14 \\ 23 \end{array}$	$\frac{1}{3}$	$\begin{bmatrix} 3,998 & 13 & 0 \\ 6,014 & 3 & 0 \end{bmatrix}$	7 4		$1,008 \ 14 \ 0$ $523 \ 11 \ 0$	$\begin{vmatrix} 6\\2 \end{vmatrix}$	186	21	7	28	, -,	7
			21	$\begin{vmatrix} 3 \\ 2 \end{vmatrix}$	6,135 3 0		1 ::	132 10 0	4	$\frac{62}{124}$	$\frac{27}{22}$	5	32 28	6,599 14 $6,391 13$	
			15	1	4,794 9 0			490 19 0	8	248	18	9	27		8
	• •	• •	21		5,380 14 0		٠.	153 16 0	1	31	22	1	23	5,565 10	
	• •	• •	$\frac{3}{12}$	$\frac{1}{3}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		٠.	1,079 9 0	5	155	9	6	15	1,985 1	
			5	1	1,118 14 0	3		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{124}{93}$	$\begin{array}{c c} 15 \\ 6 \end{array}$	7 4	22 10	$\begin{bmatrix} 3,561 & 15 \\ 1,358 & 6 \end{bmatrix}$	$\frac{2}{0}$
			2	2	671 9 0	2		277 19 0	5	155	4	7	11		8
	• •	• •		1	161 13 0	2		247 7 0	1	31	2	2	4		0
	• •	٠.		• •	••	1	1	141 16 0	2	62	1	3	4	203 10	
			::		• • •	3	1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{vmatrix} 8 \\ 2 \end{vmatrix}$	$\begin{array}{c c} 248 \\ 62 \end{array}$	3 4	$\frac{9}{2}$	12	$785 \ 431 \ 16$	$\frac{2}{e}$
							1	82 11 0	2	62		3	3	144 1	_
		٠.				1		85 2 0	11	341	1	11	12	(2
	• •	٠.			• •	• •	• •		1	31	•••	1	1		0
			::		• •		• •	• •	$\begin{vmatrix} 2\\3 \end{vmatrix}$	62	٠.	2	2		0
			::	``	• •	i	3	203 19 0	6	$\frac{93}{186}$	i	$\frac{3}{9}$	$\frac{3}{10}$	$\frac{93}{389}$	$\frac{0}{9}$
		٠.				1		87 2 0	3	93	ī	3	4		$\dot{2}$
	• •	• •			• •	1	1	96 0 0	7	217	1	8	9	313 (
	• •	• •		••	• •	$\frac{2}{2}$	i	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	3	93	2	3	5	$egin{array}{cccccccccccccccccccccccccccccccccccc$	
					• •				3	93 93	2	$\begin{vmatrix} 4 \\ 3 \end{vmatrix}$	$\begin{array}{c c} & 6 \\ & 3 \end{array}$	_	0
							1	34 0 0	3	93		4	4		ŏ
	• • *	• •			• •	1	ا ب	79 8 0	3	93	1	3	4	172 8	8
	• •	• •	• •	• •	• •	1	1	101 7 0			1		2		7
		• •		::	• • • • • • • • • • • • • • • • • • • •	i		57 13 0	2	$\frac{62}{\cdots}$	1	2	$\frac{2}{1}$	62 (57 13	0 3
							1	15 3 0	2	62		3	$\frac{1}{3}$		3
	• •							• •	2	62		2	2	62 (0
	• •	• •		• •	• •	'i	••	31 19 0	1	31	·;	1	1		0
						2	i	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1	31	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	1	$\frac{2}{3}$	62 19 43 9	
					••	1		$\begin{array}{cccccccccccccccccccccccccccccccccccc$::	• • • • • • • • • • • • • • • • • • • •	l ĩ		1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	7
				• • •	• •				3	78)					
	• •	• •	• •	• •	• •		••	• •	12	312	1				
		• •			••		::	• •	$\begin{array}{ c c }\hline 13\\14\\ \end{array}$	$\frac{338}{364}$					
					• • •			• •	8	208					
					• •			• •	11	286					
					• •				16	416					_
	• •	٠.		• •	• •			* *	15	390 >	93	68	161	4,186	J
		• •			• •	• • •		• •	$\begin{vmatrix} 16 \\ 8 \end{vmatrix}$	$\begin{array}{c}416\\208\end{array}$					
		• •			••	::	::	• •	15	390		İ			
	• •		١		• •				13	338					
		• •	• •	• •	••			• •	4	104					
					••		::	• •	8 5	$\frac{208}{130}$					
						-\		··							
	Γ otals		274	35	69,356 5 0	64	12	8,433 15 0	383	11,068	431	100=	768	88,858 0	^

^{*} Compiled from cards.

TABLE VII.

EXPERIENCE TABLE.

Probabilities per Cent. per Annum of Withdrawal, Death, and Retirement used in the Calculation of Valuation Factors for the Public Service Superannuation Fund.

	Contributing Members: Males.						Contributing Members: Females.				
	Age.		: Percentage	of the Numbe	Death, or Re- expressed as a er Existing in g of the Year).	Probabilities of Withdrawal, Death, or Retirement within a Year (expressed as a Percentage of the Number Existing in the Service at the Beginning of the Year).					
			Withdrawal.	Death.	Retirement.	Withdrawal.	Death.	Retirement.			
			Pow Court	Dan Cont	Don Cont	Per Cent.	Per Cent.	Per Cent.			
_			Per Cent.	Per Cent.	Per Cent.	4·00	0·13	1	15		
$\frac{5}{c}$		• •	5.50	$0.17 \\ 0.18$	••	4.80	0.13	••	16		
6	• •	• • •	5.48	0.18		6.20	0.13	••	17		
7	• •	• •	5.40	0.18	• • •	8.00	$0.13 \\ 0.13$	•	18		
8	• •	• •	5.20	$0.18 \\ 0.18$		10.00	$0.13 \\ 0.13$		19		
9	• •	• •	4.90		•• •	12.10	$0.13 \\ 0.13$	••	$\frac{10}{20}$		
0	• •	• •	4.50	0.18	• •		0.13	•••	$\frac{20}{21}$		
1	• •	• •	4.14	0.19		13·90 15·20		••	$\frac{21}{22}$		
2		• •	3.82	0.19	0.00	15.20	0.13	•••	$\frac{22}{23}$		
3	٠,	• •	3.54	0.19	0.08	15.90	0.13	•••			
4		• •	3.30	0.19	0.08	16.10	0.14		24		
5			$\frac{3\cdot 10}{3\cdot 10}$	0.20	0.09	16.10	0.15	•••	25		
6			2.94	0.20	0.09	15.90	0.16		$\frac{26}{27}$		
7			$2 \cdot 81$	0.20	0.09	15.50	0.17				
8	• •		$2 \cdot 70$	0.21	0.09	14.90	0.18	0.70	28		
9			$2 \cdot 60$	0.22	0.10	14.10	0.19	0.10	29		
0			$2 \cdot 51$	0.23	0.10	13.20	0.20	0.10	30		
1			$2 \cdot 43$	0.24	0.10	12.30	0.21	0.11	31		
2			$2 \cdot 35$	$0 \cdot 25$	0.10	11.40	0.22	0.12	32		
3			$2 \cdot 28$	0.26	0.10	10.50	0.23	0.13	33		
4	• •		$2 \cdot 22$	$0 \cdot 27$	0.10	9.60	0.24	0.14	34		
5	• •		$2 \cdot 16$	$0 \cdot 28$	0.10	8.70	0.25	0.15	35		
6			$2 \cdot 10$	$0 \cdot 29$	0.10	7.80	0.26	0.17	36		
7			$2 \cdot 04$	$0 \cdot 30$	0.10	6.90	0.27	0.19	37		
8			1.98	$0 \cdot 31$	0.10	$6 \cdot 10$	0.28	0.21	38		
9			1.92	$0 \cdot 32$	0.10	$5 \cdot 40$	0.29	0.23	39		
-0	• •		1.86	0.33	0.10	$4 \cdot 70$	0.30	0.25	40		
1			1.80	$0 \cdot 35$	0.10	4.10	0.31	0.28	41		
2		٠.	1 · 74	$0 \cdot 37$	$0 \cdot 10$	3.50	0.32	0.32	42		
3			$1 \cdot 67$	0.39	0.11	3.00	0.33	0.38	43		
4			$1 \cdot 60$	0.42	0.13	$2 \cdot 50$	0.34	0.48	44		
5			1.53	0.46	$0 \cdot 15$	$2 \cdot 00$	0.35	0.72	45		
16			1.46	0.51	$0 \cdot 19$	1.50	0.37	$1 \cdot 45$	46		
ŀ7			1.39	0.57	$0 \cdot 26$	1.10	0.39	$2 \cdot 30$	47		
18			$1 \cdot 32$	0.64	0.52	0.70	0.41	$3 \cdot 20$	48		
19			$1 \cdot 25$	$0 \cdot 72$	0.90	0.40	0.43	$4 \cdot 20$	49		
60			$1 \cdot 17$	0.81	$1 \cdot 46$	0.20	0.46	5.30	50		
61			1.09	0.90	$2 \cdot 10$	0.10	0.49	$6 \cdot 45$	51		
52			1.01	0.99	$2 \cdot 86$		0.52	$7 \cdot 65$	52		
3			0.93	1.08	$3 \cdot 60$		0.55	8.80	53		
64			0.85	$1 \cdot 17$	4.30		0.58	9.80	54		
5			0.76	$1 \cdot 26$	$4 \cdot 90$		0.61	10.60	55		
66			0.66	$1 \cdot 35$	$5 \cdot 46$		0.64	$11 \cdot 20$	56		
7	• •		0.55	1.45	6.00		0.67	11.70	57		
58			0.42	1.55	$6 \cdot 46$		0.71	12.10	58		
59			0.27	1.65	$6 \cdot 84$		0.75	$12 \cdot 50$	59		
30			0.10	1.75	$7 \cdot 14$		٠.	100.00	60		
31				1.85	$7 \cdot 34$						
32				1.95	7.58						
33				$2 \cdot 05$	$8 \cdot 30$						
34				$2 \cdot 15$	14.00						
35	•				100.00						

TABLE VIII.

LIFE AND SERVICE TABLE.

Based upon the Rates per Cent. per Annum of Withdrawals, Mortality, and Retirements given in Table VII, applied to $100,\!000$ Entrants at Age 15.

	Males.						Females.				
	Age.		Existing in Service.	With- drawals.	Deaths.	Retire- ments.	Existing in Service.	With- drawals.	Deaths.	Retire- ments.	Age.
.5			100,000	5,500	170		100,000	4,000	130		15
6			94,330	5,169	170		95,870	4,602	125		16
7			88,991	4,806	160		91,143	5,651	118	• • •	17
8	• • • • • • • • • • • • • • • • • • • •		84,025	4,369	151		85,374	6,830	111		18
9	• • •		79,505	3,896	143	• • •	78,433	7,843	102		19
0		• •	75,466	3,396	136		70,488	8,529	92	••	20
1	• •		71,934	2,978	137	• •	61,867	8,600	80	• •	$\frac{20}{21}$
2	• •		68,819	2,629	131	••	53,187	8,084	69	• •	
3	• •		56.059	$\frac{2,029}{2.338}$	126		45,034			• •	22
-	• •					53		7,160	59	• •	23
$\frac{4}{2}$		• •	63,542	2,097	121	51	37,815	6,088	53		24
5			61,273	1,899	123	55	31,674	5,100	48		25
6		- •	59,196	1,740	118	53	26,526	4,218	42		26
7			57,285	1,610	115	52	22,266	3,451	38		27
8			55,508	1,499	117	50	18,777	2,798	34		28
9			53,842	1,400	118	54	15,945	2,248	30	16	29
0			52,270	1,312	120	52	13,651	1,802	27	14	30
1			50,786	1,234	122	51	11,808	1,452	25	13	31
2			49,379	1,160	123	49	10,318	1,176	23	12	32
3			48,047	1.095	125	48	9,107	956	21	12	33
4			46,779	1,038	126	47	8,118	779	19	îī	34
5			45,568	984	128	46	7,309	636	18	11	35
6	• •		44,410	933	129	44	6,644	518	17	11	36
7	• •		43,304	883	130	43	6,098	$\frac{313}{421}$	16	$\frac{11}{12}$	37
8	• •	• •	42,248	837	131	42	5,649	$\frac{421}{345}$		$\frac{12}{12}$	
9	• •	• •	41,238	792	132	41	5,276		16		38
.0	• •		$\frac{41,236}{40,273}$			40		285	15	$\frac{12}{12}$	39
	• •			749	133		4,964	233	15	12	40
1	• •		39,351	708	138	39	4,704	193	15	13	4.1
2	• •		38,466	669	142	38	4,483	157	1.4	14	42
3	• •		37,617	628	147	41	4,298	129	14	16	43
4	• •		36,801	589	155	48	4,139	103	14	20	44
5			36,009	551	166	54	4,002	80	14	29	45
6			35,238	514	180	67	3,879	58	14	56	46
7			34,477	479	197	90	3,751	41	15	86	47
8			33,711	445	216	175	3,609	25	15	115	48
9			32,875	411	237	296	3,454	14	15	145	49
0			31,931	374	259	466	3,280	7	15	174	50
1			30,832	336	277	647	3,084	3	15	199	51
2			29,572	299	293	846	2,867		15	219	$\frac{51}{52}$
3			28,134	$\frac{262}{262}$	304	1,013	2,633	• • •	14	$\frac{219}{232}$	53
4			26,555	226	311	1,142	$\frac{2,333}{2,387}$		14	234	54 54
5			24,876	189	313	1,219	$\frac{2,337}{2.139}$	• •	13	$\frac{234}{227}$	55
6			23,155	153	313	1,264	1,899	• •			
7	• •		21,425		311	1,204 $1,286$		• •	12	213	56
8	• •	• •	19,710	118			1,674	• •	11	196	57
	• •	• •		83	306	1,273	1,467	• •	10	178	58
9	• •		18,048	49	298	1,234	1,279	• •	10	160	59
0	• •	• •	16,467	16	288	1,176	1,109	• •	••	1,109	60
1	· ·	٠.	14,987	• •	277	1,100	• •				
2		٠.	13,610		265	1,032					
3			12,313		252	1,022					
			11,039		237	1,545	l				
5			9,257			9,257					
$\frac{4}{5}$	••				,039	,039 237	,039 237 1,545	,039 237 1,545	,039 237 1,545	,039 237 1,545	0.039 0.037 0.039 0.000 0.000

TABLE IX.

SUMMARY OF PUBLIC SERVICE SUPERANNUATION RESULTS. VALUATION BALANCE-SHEET AS AT 31ST MARCH, 1930.

	Liabilit	ties.					
Males						£	£
Value of—							
1,503 pensions for £321,052 18s. per annua	m already s	granted				2,879,873	
773 pensions for £23,963 per annum grante	ed to widov	vs of conti	ributors o	r pension	ers	259,724	
391 pensions for £10,166 per annum gran	ted to chil	dren of d	eceased c	ontribute	ors or		
pensioners						36,772	
Prospective pensions for back service						4,803,315	
Prospective pensions for future service						3,878,383	
Prospective pensions to widows						843,480	
Prospective pensions to children						179,916	
Return of contributions on death						61,379	
Return of contributions on withdrawal						637,403	
Tooldin of confidence of the second							13,580,245
Females-							
Value of—							
203 pensions for £16,956 8s. 2d. per annur	n already s	granted				199,171	
Prospective pensions for back service		•••				366,316	
Prospective pensions for future service						295,252	
Return of contributions on death	• • •					8,990	
Return of contributions on withdrawal						83,061	
Leturn of contributions on withdrawar	• •	• •	• •				952,790
							£14,533,035
	Asse	t a					
	Asse	<i>ts.</i>					£
							2,882,504
Accumulated funds	• •	• •	• •	• •	• •	• •	2,882,904
Value of—							9 044 179
Future contributions from males		• •				• •	3,044,153
Future contributions from females			• •		• •	• •	163,961
Subsidy of £86,000 per annum now being paid						٧.	1,911,111
Subsidy under section 114, Public Service Sup-	erannuatio	${f n}$ Act				• •	570,978
Future increases in subsidy to be provided			• •				5,960,328
• -							014 500 005
							£14,533,035

TABLE X.

STATEMENT SHOWING SUBSIDIES PAID AS COMPARED WITH SUBSIDIES REQUIRED UNDER THE SYSTEM INDICATED IN THE ACT.

Year ei	ided.		Subsidy required.	Subsidy paid.	Shortage.	Shortage accumulated a 4½ per Cent. to 1931.	
	· · · ·		£	£	£	£	
31st December,	1908		(Say) 20,000	20,000			
	1909		,, 20,000	20,000			
,,	1910		,, 22,500	22,500		••	
**	1911		48,000	23,000	25,000	60,294	
"	1912		48,000	23,000	25,000	57,696	
,,	1913		48,000	48,000		••	
,,	1914		66,000	48,000	18,000	38,041	
,,	1915		66,000	48,000	18,000	36,403	
,,	1916		66,000	48,000	18,000	34,835	
**	1917		86,000	48,000	38,000	70,373	
,,	1918		86,000	48,000	38,000	67,345	
,,	1919		86,000	86,000			
,,	1920		125,000	86,000	39,000	63,291	
,,	1921		125,000	86,000	39,000	60,566	
5.7	1922		125,000	86,000	39,000	57,958	
,,	1923		172,000	86,000	86,000	122,300	
1st January to	1020	•••	1.2,000	,	,		
31st March.	1924*		43,000	34,000	9,000	12,661	
31st March,	1925	1	240,000	136,000	104,000	140,007	
	1926		240,000	86,000	154,000	198,391	
**	$1920 \\ 1927$	• • •	240,000	86,000	154,000	189,846	
,,	1928	• •	285,000	86,000	199,000	234,756	
,,	1929	• •	285,000	86,000	199,000	224,647	
22	$1929 \\ 1930$		285,000	186,000	99,000	106,947	
Totals	3		2,827,500	1,526,500	1,301,000	1,776,357	

^{*} Taken as one-fourth of a full year's factors.

Approximate Cost of Paper,—Preparation, not given; printing (2,050 copies), £22 10s.

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