PERS /Achiaria Valuation PB+6



ARR - 3 1972

ONU LECTRE FRE STUDY COLUMNISMON

ANNUAL ACTUARIAL VALUATION
RETIRANTS AND BENEFICIARIES
June 30, 1971
OHIO
PUBLIC EMPLOYEES RETIREMENT SYSTEM

GABRIEL. ROEDER, SMITH & COMPANY CONSULTING ACTUARIES

TABLE OF CONTENTS

	Pages
Introduction	1
Comment on Valuation Results	2
Annuity and Pension Reserve Fund:	•
Summary	. 3
Detail	4-11
Survivor Benefit Fund:	
State Division: Summary	12
Detail	13-18
Local Government: Summary	19
Detail	20-25
Appendix	26-27
•	

March 10, 1972

The Retirement Board

State of Ohio

Public Employees Retirement System

Columbus, Ohio

Ladies and Gentlemen:

Submitted in this report are the results of the annual actuarial valuation of the Retirement System's liabilities for retirement allowances being paid retirants and beneficiaries as of June 30, 1971.

The extensive statistical data required to make the valuation was furnished by your Executive Director and his Staff in February, using computer equipment.

The interest rate used in making the valuation was 4.5% per annum, compounded annually. This is an increase over last year's 4.0%.

The mortality table used in making the valuation was the 1960 Group Annuity Mortality Table, set back no years for men and set back 5 years for women (please see Appendix Schedule 17). This assumption is unchanged from a year ago.

COMMENT

Based upon the results of the June 30, 1971 valuation, the mortality table in use appears to be a reasonable measure of mortality being experienced among retirants and beneficiaries. There follows the computed changes in the "Ratio of Ledger Balance to Liabilities" in each retired life fund.

	Ratio of Ledger Balance to Liabilities Report				
	1971	1970	Change	Schedule	
Annuity and Pension Reserve	104.5%	103.7%	+0.8%	1	
Survivor Benefit: State : Local Government	100.7	105.4 105.5	-4.7 -3.6	5 11	

The recommended reserve transfers, as of July 1, 1971, on page 27 will fully adjust the retired life reserves for (i) the new interest rate and (ii) the 1.5% escalator provision.

Respectfully submitted,

GABRIEL, ROEDER, SMITH & COMPANY

Richard G. Roeder

RG Roeder

KS:mu

ANNUITY AND PENSION RESERVE FUND

Retirants and beneficiaries receiving benefits from the Annuity and Pension Reserve Fund as of June 30, 1971 totaled 33,714, involving monthly retirement allowances of \$5,101,389.

Included in this number were 133 retirants now reemployed whose monthly retirement allowances of \$18,432 have been suspended for their periods of reemployment.

Cost of living pension increments being paid to present retirants and beneficiaries totaled \$410,338 monthly.

The ledger balance in the Annuity and Pension Reserve Fund was reported to be \$602,029,238.47 (including unexpended cost of living balance of \$562,145.38).

The computed liabilities of the Annuity and Pension Reserve Fund totaled \$615,660,278, which amount represents the lump sum present value of future retirement allowance payments from this fund to present retirants and beneficiaries.

Schedule 1.

Annuity and Pension Reserve Fund Ledger Balances and Computed Liabilities

Comparative Statement

	June 30	Ledger Balance	Computed Liabilities	Ratio of Ledger Balance to Liabilities
AFTER- SUPPECTED	1967 1968 1969 1970 1971	\$404,203,452 422,204,031 504,861,398 531,887,158 602,029,238	\$395,769,176 418,204,284@ 495,545,808@ 512,846,088@ 576,225,932*	102.1% 101.0 101.9 103.7 104.5
TRLUSFERS	1971	641, 413, 584	615,660,278	104.5

[@] Includes liabilities for '57 and '59 COLA that were not included prior to 1968.

^{*} Based on 4% rate of interest and level benefits.

Schedule 2.

Annuity and Pension Reserve Fund

Retirants and Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid and Monthly Amount

Group	Number	Normal <u>Annuities</u>	Initial <u>Pensions</u>	Post-Retire.	Current Total %	Current Total \$
		su	PERANNUATION	RETIREMENT		
	Stra	ight Life Λ11	owance - Ben	efit Terminating	at Death	
Men Women Totals	10,849 10,785 21,634	26.1% 20.3	65.3% 71.0	8.6% 8.7	100.0%	\$1,666,133 1,437,526 3,103,659
8	. = 315	Option 1 Allo	wance - Join	t and Survivor B	enefit	
Men Women Totals	2,044 150 2,194	25.0 19.5	68.7 71.2	6.3 9.3	100.0	253,480 15,607 269,087
	Option	n 2 Allowance	- Modified	Joint and Survivo	or Benefit	
Men Women Totals	3,226 115 3,341	23.2	71.6 74.2	5.2 7.5	100.0	. 744,134 19,554 763,688
Opt	ion 3 Allo	wance - Life	Benefit Wit	h Guaranteed Peri	iods O to 5	Years
Men Women Totals	494 78 572	24.7 16.2	67.8 71.1	7.5 12.7	100.0	90,666 11,377 102,043
Opt	ion 3 Allo	wance - Life	Benefit With	h Guaranteed Peri	iods 6 to 1	0 Years
Men Women Totals	852 90 942	23.7 17.3	69.1 72.9	7.2 9.8	100.0	151,883 12,810 164,693

(Schedule 2 continued on Page 5)

Schedule 2. - continued

Annuity and Pension Reserve Fund

Retirants and Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid and Monthly Amount

Group	Number	Normal Annuities	Initial Pensions	Post-Retire. Increases	Current Total %	Current Total \$
Opt	ion 3 Allo	wance - Life	Benefit With	Guaranteed Peri	ods 11 to 1	5 Years
Men Women Totals	414 37 451	22.8% 17.8	73.0% 73.6	4.2% 8.6	100.0%	\$ 87,302 5,108 92,410
×		39				
Opt	ion 3 Allo	wance - Life	Benefit With	Guaranteed Peri	ods 16 to 2	l Years
Men Women	24	15.2	78.2	6.6	100.0	7,098
Totals	24			•		7,098
V I			E a			
	Optio	on 3 Allowand	e - Special	Joint and Surviv	or Benefit	
Men Women	21	16.6	76.7	6.7	100.0	9,651
Totals	21					9,651
A 1:	lowance to	Survivor Ben Who Elected	eficiary of 1 Option 1, 2	Deccased Superan or 3 - Life Bene	nuation Reti fit	rant
Men Women	27	16.0	66.9	17.1	100.0	2,302
Totals	2,465 2,492	20.7	63.9	15.4	100.0	243,532 245,834
				*		
. A11	lowance to W	Survivor Ben Tho Elected O	eficiary of] ption 3 - Gua	Deceased Superant aranteed Period (nuation Reti Only	rant
M-W	405	23.6	. 68.2	8.2	100.0	67,882

(Schedule 2 concluded on Page 6)

Schedule 2. - concluded

Annuity and Pension Reserve Fund

Retirants and Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid and Monthly Amount

Group	Number	Normal Annuities	Initial Pensions	Post-RetireIncreases	Current Total %	Current Total \$
		Total for Sup	erannuation	Allowances Being	; Paid	
Men Women M-W Totals	17,951 13,720 405 32,076	25.0% 20.3 23.6	67.7% 70.1 68.2	7.3% 9.6 8.2	100.0% 100.0 100.0	\$3,012,649 1,745,514 67,882 4,826,045
			DISABILITY R			
	Stra	ight Life All	owance - Ben	efit Terminating	at Death	
Men Women Totals	1,028 610 1,638	14.4 12.5	80.2 80.6	5.4 6.9	100.0 100.0	188,408 86,936 275,344
	TOTAL BEI	NEFITS BEING	PAID FROM AN	NUITY AND PENSIO	n reserve f	UND
Men Women M-W Totals	18,979 14,330 405 33,714	24.4 19.9 23.6	68.4 70.6 68.2	7.2 9.5 8.2	100.0 100.0 100.0	3,201,057 1,832,450 67,882 \$5,101,389

Schedule 3.

Annuity and Pension Reserve Fund
Retirants and Beneficiaries June 30, 1971
Current Monthly Total \$ By Attained Ages

	Superan	nuation	Dis	ability	T	otals
Attained Ages	No.	Monthly Total \$	No.	Monthly Total \$	No.	Monthly Total \$
30-34 35-39	1 :	\$ 83	5 18	\$ 1,483 4,746	6 18	\$ 1,566 4,746
40	*	\$100 m	12	3,577	12	3,577
41			7	1,746	7	1,746
42	1	41	9	2,219	10	2,260
43	1	148	13	2,554	14	2,702
44		8	16	3,948	16	3,948
45	1	61	19	4,122	20	4,183
46	2	225	18	4,389	20	4,614
47	4	297	25	5,683	29	5,980
48			31	7,148	31	7,148
49	5	267	28	6,305	33	6,572
50	2	119	40	7,707	42	7,826
51	1	35	51	10,670	52	10,705
52	5	508	34	6,687	39	7,195
53	, 6	308	67	13,989	73	14,297
54	12	1,455	63	12,774	75	14,229
55	13	2,137	70	12,914	83	15,051
56	19	3,784	64	10,872	83	14,656
57	38	6,857	71	12,772	109	19,629
- 58	58	12,161	106	17,780	164	29,941
59	91	21,095	121	18,764	212	39,859
60	139	25,329	122	19,149	261	44,478
61	407	62,876	116	16,101	523	78,977
62.	544	94,999	96	13,357	640	108,356
63	- 8 37	134,789	- 68	8,910	905	143,699
64	994	156,294	70	8,900	1,064	165,194

(Schedule 3 continued on Page 8)

Schedule 3. - continued

Annuity and Pension Reserve Fund
Retirants and Beneficiaries June 30, 1971
Current Monthly Total \$ By Attained Ages

	Super	annuation	Dis	ability	. То	otals
Attained		Monthly		Monthly		Monthly
Λges	No.	Total \$	No.	Total \$	No.	Total \$
65	1,160	\$ 182,902	68	\$ 8,733	1,228	\$ 191,635
66	1,443	232,891	68	8,954	1,511	241,845
67	1,555	240,215	36	4,131	1,591	244,346
68	1,673	260,801	36	4,817	1,709	265,618
69	1,657	255,320	28	3,476	1,685	258,796
70	1,681	260,342	24	2,880	1,705	263,222
71	1,906	286,169	10	1,702	1,916	287,871
72	1,650	265,473	5	849	1,655	266,322
73	1,847	284,025	1	180	1,848	284,205
74	1,621	243,110	1	185	1,622	243,295
75	1,641	240,295			1,641	240,295
76	1,495	220,266	1	171	1,496	220,437
77	1,368	197,843			1,368	197,843
78	1,196	172,693		.00	1,196	172,693
79	1,113	156,732			1,113	156,732
80	995	145,217			995	145,217
81	817			W y	817	114,601
82	698	95,331			698	95,331
83	622	78,900			622	78,900
84	518	67,202		•	518	67,202
85	465	60,472			465	60,472
86	338	41,342			338	41,342
87	298	36,568			298	36,568
88	220	29,819			220	29,819
89	142	18,962			142	18,962
90	132	17,158			132	17,158
91	76	9,355			76	9,355
92	66	10,143			66	10,143
93	45	4,398			45	
94	23	3,334	9 *		23	4,398 3,334

(Schedule 3 concluded on Page 9)

Schedulc 3. - concluded

Annuity and Pension Reserve Fund
Retirants and Beneficiaries June 30, 1971
Current Monthly Total \$ By Attained Ages

	Super	annuation	Dis	ability	т	Totals	
Attained Ages	No.	Monthly Total \$	No.	Monthly Total \$	No.	Monthly Total \$	
95 96 97 98 99	16 4 6 2 1	\$ 1,588 357 350 63 58		\$	16 4 6 2	\$ 1,588 357 350 63 58	
Period Certain	405	67,882		2	405	67,882	
Totals	32,076	\$4,826,045	1,638	\$275,344	33,714	\$5,101,389	

Schedule 4.

Annuity and Pension Reserve Fund

Liabilities for Retirants and Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid

	· -	Liabiliti			
0	Normal	Initial	Post-Retire.	Current	Current
Group	Annuities	Pensions	Increases	Total %	Total \$
		SUPERANI	NUATION RETIREME	ENT	
Men	24.4%	61.1%	14.5%	100.0%	\$160,904,640
Homen	18.7	64.9	16.4	100.0	181,840,488
Totals		w w		200.0	342,745,128
3"					
			Option 1		
Men	22.4	72.1	5 .5	100.0	40,991,282
Women	17.8	74.9	7.3	100.0	2,456,524
Totals .					43,447,806
25			Option 2		
Men	20.9	75.1	4.0	100.0	98,796,650
Women	16.5	77.4	6.1	100.0	2,888,568
Totals		, and an a			101,685,218
	Option	3 - Life Ber	nefit With Guara	nteed Perio	đ
Men	21.9	73.3	4.8	100.0	38,987,558
Women	8.8	76.1	15.1	100.0	3,889,611
Totals				200.0	42,877,169
	Option	n 3 - Special	. Joint and Surv	ivor Benefi	t
Men	15.1	79.8	5.1	100.0	1,165,193
Vomen					
Totals					

(Schedule 4 concluded on Page 11)

Schedule 4. - concluded

Annuity and Pension Reserve Fund

Liabilities for Retirants and Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid

		Liabili	ties for		
	Normal	Initial	Post-Retire.	Current	Current
Group	Annuities	Pensions	Increases	Total %	Total \$
4 - 5" - 40	Survivor	Beneficiary o	f Deceased Super fe Benefit	annuation	Retirant
Men	14.1%	69.9%	16.0%	100.0%	\$ 289,253
Women Totals	19.3	68.4	12.3	100.0	29,594,460 29,883,713
	Survivor	Beneficiary o	f Deceased Super eed Period Only	annuation	Retirant .
M-W	25.7	67.6	6.7	100.0	3,422,119
8	Total	for Superannu	ation Allowances	Being Pai	đ
Men	22.8	68.0	9.2	100.0	341,134,576
Women	18.7	65.8	15.5	100.0	220,669,651
M-W	25.7	67.6	6.7	100.0	3,442,119
Totals			.,	100.0	565,226,346
	×	DISABI	LITY RETIREMENT		
		St	raight Life		
Men	12.0	83.7	4.3	100.0	33,694,292
Women Totals	10.5	84.0	5.5	100.0	16,739,640 50,433,932
	TOTAL LIA	BILITIES FOR A	ANNUITY AND PENS	ION RESERV	E FUND
Men	21.9	69.5	8.6	100.0	374,828,868
Women	18.1	67.1	14.8	100.0	237,409,291
M-W	25.7	67.6	6.7	100.0	
Totals			•••	100.0	$\frac{3,422,119}{$615,660,278}$

Schedule 5.

STATE DIVISION

Survivor Benefit Fund

Ledger Balances and Computed Liabilities

Comparative Statement

		June 30	
	1971	1970	1969
S-1 (Joint and Survivor) Benefits Being Paid:			
Ledger Balance Computed Liabilities Ratio of Ledger Balance	\$12,681,941* 14,069,880#	\$10,958,206 11,794,548#	\$10,954,204 11,307,552#
to Liabilities	90.1%	92.9%	96.9%
S-2 (Fixed Amount) Benefits Being Paid - Exclusive of Deferred Cases Where No Monthly Payment Has Been Made:			
Ledger Balance	\$26,041,361*	\$22,161,705	\$21,120,894
Computed Liabilities	24,391,164#	19,639,092#	19,009,692#
Ratio of Ledger Balance			54
to Liabilities	106.8%	112.8%	111.1%
S-1 & S-2 Combined Benefits Being Paid:			
Ledger Balance	\$38,723,302	\$33,119,911	\$32,075,098
Computed Liabilities	38,461,044#	31,433,640#	30,317,244#
Ratio of Ledger Balance			
to Liabilities	100.7%	105.4%	105.8%
Total Survivor Benefit Fund:			
Ledger Balance	\$50,223,261*	\$44,228,152	\$41,444,578
Computed Liabilities Incurred:	Q30,223,201	944,220,132	341,444,576
Benefits Being Paid	38,461,044	31,433,640	30,317,244
Deferred Cases	4,411,536	4,191,972	4,069,872
Total	\$42,872,580#	\$35,625,612#	\$34,387,116#
	,,,	700,020,022	Ψ3-1,301,110 <i>1</i>
Ratio of Balance to Liabilities	117.1%	124.1%	120.5%
Reserve for Active Members	\$ 7,350,681	\$ 8,602,540	\$ 7,057,462
			, ,

[#] Includes 1965 and 1968 Increases.

^{*} After recommended transfers.

Schedule 6.

STATE DIVISION

Survivor Benefit Fund

Survivor Benefit Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid and Monthly Amount

Group	Number	Normal Annuities	Initial Pensions	Post-Retire. Increases	Current Total %	Current Total \$
Sur	vivor Benef Join	it to Benef t and Survi	iciary of vor Comput	Deceased Membe ation	r	
Men Women Totals	21 590 611	13.8%	77.9%	8.3% 7.8	100.0%	\$ 2,816 91,512 94,328
Sur	vivor Benef	it to Benef Fixed Bene	iciary of fit Amount	Deceased Membe	ŕ	
Widower - no child Parent - male Sub-totals - male	38 1 39		93.8 100.0	6.2	100.0 100.0	3,840 96 3,936
Widow - no child Widow - child Parent - female Sub-totals - fema	939 338 $\frac{11}{1,288}$		91.9 96.1 90.7	8.1 3.9 9.3	100.0 100.0 100.0	97,159 74,175 1,087 172,421
Child only	115	ie i	93.1	6.9	100.0	17,469
Totals	1,442					\$193,826
Tota	l Benefits	Being Paid	from Survi	vor Benefit Fu	nd.	
Men Women Children	60 1,878 115					\$ 6,752 263,933 <u>17,469</u>
Totals	2,053					\$288,154

Schedule 7.

STATE DIVISION

Survivor Benefit Fund

Deferred Survivor Benefit Beneficiaries June 30, 1971
Tabulated by Type of Benefit to be Paid and Monthly Amount

Grou	<u>N</u>	umber	Deferred Allowances	
	Fixed	Benefit	Amounts	
Widowers				
Deferred	to age	65	25	\$ 2,405
Widows				
Deferred	to age	50	9	960
Deferred	to age	62	300	28,399
Deferred	to age		39	2,583
Totals		,	348	31,942
Totals			373	\$34,347

Schedule 8.

STATE DIVISION

Survivor Benefit Fund

Beneficiaries June 30, 1971

Tabulated by Attained Ages

Attained Ages	No.	Monthly Allowances	Attained Ages	No.	Monthly Allowances
1	1	\$ 96	₃ 40	10	\$ 2,268
2 4	2	256	41	9	2,135
4	1	216	42	13	3,115
			43	10	2,229
5	1	162	44	10	2,064
6	3	546		, _ 0	2,004
7	3	533	45	14	3,048
8	6	1,156	46	. 15	4,367
9	9	1,805	47	19	3,934
1.0			48	24	5,117
10 11	3 9	548	49	. 17	3,562
12	6	1,881 802	50		
13	15	2,860	50	23	4,926
14	8	1,217	51	27	5,193
-	· ·	1,217	52	26	3,844
15	13	1,742	53 54	26	4,641
16	9	1,084	54	25	3,545
17	- 8	796	55	28	4,557
18	9	890	56	45	7,050
19	3 .	296	57	45	6,733
			58	42	6,604
20	2	190	59	32	4,812
21	2	160			.,022
24	2	472	60	48	7,451
			61	45	6,864
26	1	186	62	62	8,366
28	2	266	63	100	13,094
29	1	234	64	100	12,301
30	1	100	65	0.1	71 0/0
31	1	236	66	91	11,240
32	3	678	67	100 87	14,390
33	2	481	68	92	10,328
34	5	893	69	92	9,741 12,522
35	5	1,224	70	(0	
36	4	618	70 71	68 81	7,760
37	1	236	72		10,062
38	5	1,250	72 73	60 5 7	7,436
39	8	1,899	73 74	5 7	6,616
V	•	2,000	74	35	3,806

(Schedule 8 concluded on Page 16)

Schedule 8. - concluded

STATE DIVISION

Survivor Benefit Fund
Beneficiaries June 30, 1971

Tabulated by Attained Ages

Attained Ages	No.	Monthly Allowances
75	53	\$ 7,114
76	44	5,221
77	34	3,959
78	37	3,317
79	28	4,263
80	25	2,518
81	18	1,898
82	16	1,701
83	13	1,532
84	11	915
85	11	1,074
86	10	1,072
87	6	529
88	3	297
89	6	489
90 91 92	1 1	321 102 102
Totals	2,053	\$288,154

Schedule 9.

STATE DIVISION

Survivor Benefit Fund

Deferred Beneficiaries June 30, 1971

Tabulated by Attained Ages and Deferment Ages

ttained		Monthly		Monthly		red to age 65 Monthly	·	Totals Monthly
Ages	No.	Allowances	No.	Allowances	No.	Allowances	No.	Allowance
26					0.0			
26		\$		\$	1	\$ 96	1	\$ 96
27					1	100	1	100
33				*	1	96	1	96
40			1	96	1	96	K 1	100
41			î	90	1	90	2	192
43			1	96			1	90
44	1	106	5	476			1	96
		200		. 470			6	582
45			1	. 91	1	76	2	167
46	2	206	4	3.74	1	76	7	656
47	1 1	106	÷ 6	566		, ,	7	672
48	3	318	5	460	1	51	9	829
49	2	224	4	369	2	172	8	765
50		-3 - 4	9	859	1	0.6		
51			9	'. 866	4	96	10	955
52	. 0		12	1,141	3	404	13	1,270
53			7	652	2	247	15	1,388
54			16	1,528	3	172	9	824
	W.		10	1,520		243	19	1,771
55			14	1,322			14	1,322
56			26	2,446	5	419	31	2,865
57	in in	·	24	2,254	3	178	27	2,432
58			30	2,864	6	446	36	3,310
59			34 .	3,200	3	270	37	3,470
60			38	3,612	2	1.51	./ 0	0.740
61	9.0		37	3,518	9.	151	40	3,763
62		15 (40)	15	1,429	4	602	46	4,120
63			1	90		279	19	1,708
64			1	90	3	153	4	243
					2	125	2	125
65		×.		· · · · · · · · · · · · · · · · · · ·	_5	440	5	440
otals	9	960	300	\$28,399	64	\$4,988	373	\$34,347

Schedule 10.

STATE DIVISION

Survivor Benefit Fund

Liabilities for Beneficiaries June 30, 1971
Tabulated by Type of Benefit Being Paid and To Be Paid

	-	or			
Group	Normal Annuities	Initial Pensions	Post-Retire. Increases	Current Total %	Current Total \$
LIABILIT	ES FOR SURV	IVOR BENER	ITS BEING PAI	0	31
(Including Cases	Previously	Paid But N	ow in Blackou	t Period)	
	int and Sur				
Men	12.2%	72.0%	15.8%	100 00	A
Women	19.5	62.9	17.6	100.0% 100.0	\$ 287,208
Total Liabilities for Joint			27.0	100.0	13,782,672
and Survivor Benefits Being	•				
Paid		16			14,069,880
					14,000,000
	Fixed Be	nefit Amou	nt		
Widower - no child		87.7	12.3	100 0	040 000
Parent - male		94.6	5.4	100.0 100.0	363,300
Sub-totals - male			J. T	100.0	7,164
Widow - no child		82.7	17.3	100.0	370,464
Widow - with children		85.8	14.2	100.0	14,201,184
Parents - female		84.2	15.8	100.0	8,744,160 87,216
Sub-totals - female				200.0	23,032,560
Child only		92.9	7.1	100.0	
Total Liabilities for Fixed			7.1	100.0	988,140
Benefits					
7					24,391,164
Total Liabilities for					
Survivor Benefits Being Paid					20 / 61 0/ /
					38,461,044
LIABILITI (No Monthly F	ES FOR DEFE	RRED SURVI	VOR BENEFITS Previously Pa	: 48	
19		efit Amoun		<u>1a)</u>	
Hidoron J. C.	rixed Ben	erit Amoun	t		
Widower - deferred to age 65		91.9	8.1	100.0	178,308
Widow - deferred to age 50		86.3	13.7	100.0	
- deferred to age 62		89.0	11.0	100.0	189,000
- deferred to age 65		87.5	12.5	100.0	3,750,840
- Sub-totals		07.5	12.5	100.0	293,388
Total Tichilini - C					4,233,228
Total Liabilities for Deferred Benefits			29		
Deterred benefits		88.9	11.1	100.0	4,411,536
TOTAL LIABILITIES FOR					-,
SURVIVOR BENEFIT FUND					~~~~~~~
					42,872,580

Schedule 11.

LOCAL GOVERNMENT

Survivor Benefit Fund

Ledger Balances and Computed Liabilities

Comparative Statement

•		June 30	
	1971	1970	1969
S-1 (Joint and Survivor) Benefits Being Paid:			
Ledger Balance .	\$21,241,606*	\$18,373,432	\$18,168,010
Computed Liabilities Ratio of Ledger Balance	23,212,224#	20,056,992#	18,886,488#
to Liabilities	91.5%	91.6%	96.2%
S-2 (Fixed Amount) Benefits Being Paid - Exclusive of Deferred Cases Where No Monthly Payment Has Been Made:			
Ledger Balance	\$46,803,192*	\$40,272,786	\$38,389,164
Computed Liabilities Ratio of Ledger Balance	43,560,132#	35,528,460#	35,189,940#
to Liabilities	107.4%	113.4%	109.1%
S-1 & S-2 Combined Benefits Being Paid:			•
Ledger Balance	\$68,044,798	\$58,646,218	\$56,557,174
Computed Liabilities	66,772,356#	55,585,452#	54,076,428#
Ratio of Ledger Balance to Liabilities	101.9%	105.5%	104.6%
Total Survivor Benefit Fund:			
Ledger Balance Computed Liabilities Incurred:	\$84,939,429*	\$73,929,685	\$68,547,947
Benefits Being Paid	66,772,356	55,585,452	54,076,428
Deferred Cases	6,888,552	6,627,636	6,692,172
Total	\$73,660,908#	\$62,213,088#	\$60,768,600#
Ratio of Balance to Liabilities	115.3%	118.8%	112.8%
Reserve for Active Members	\$11,278,521	\$11,716,597	\$ 7,779,347
# Includes 1965 and 1968 Increases.			

^{*} After recommended transfers.

Schedule 12.

LOCAL GOVERNMENT

Survivor Benefit Fund

Survivor Benefit Beneficiaries June 30, 1971

Tabulated by Type of Benefit Being Paid and Monthly Amount

Group	Number	Normal Annuities	Initial Pensions	Post-Retire. Increases	Current Total %	Current Total \$
Surv	ivor Benef Joi	it to Benefi nt and Surv	iciary of vivor Compu	Deceased Membertation	r	
Men Women Totals	26 1,019 1,045	19.2% 22.9	71.6% 69.6	9.2% 7.5	100.0%	\$ 2,967 157,471 \$160,438
Surv	ivor Benef	it to Benefi Fixed Bene	iciary of	Deceased Membe	r	
Widower - no child Parent - male Sub-totals - male	52 1 53		93.8% 82.4	6.2%	100.0% 100.0	5,610 182 5,192
Widow - no child Widow - child Parents - female Sub-totals - female	1,711 631 20 2,362		92.0 96.3 92.6	8.0 3.7 7.4	100.0 100.0 100.0	173,934 140,749 1,995 316,678
Child only	218		93.6	6.4	100.0	32,819
Totals	2,633					\$354,689
Total	Benefits	Being Paid	from Survi	vor Benefit Fu	nd	
Men Women Children Totals	79 3,381 218 3,678					\$ 8,159 474,149 32,819 \$515,127

Schedule 13.

LOCAL GOVERNMENT

Survivor Benefit Fund

Deferred Survivor Benefit Beneficiaries June 30, 1971 Tabulated by Type of Benefit to be Paid and Monthly Amount

Grou	ıp .		Number	Deferred Allowances
	Fixed	Benef	it Amounts	
Widowers				
Deferred	to age	65	43	\$ 4,185
Widows				
Deferred	to age	50	8	836
Deferred			455	42,784
Deferred	to age	65	93	6,154
Totals			93 556	49,774
			-	
Totals			599	\$53,959

Schedule 14.

LOCAL GOVERNMENT

Survivor Benefit Fund

Beneficiaries June 30, 1971

Tabulated by Attained Ages

Attained Ages	No.	Monthly Allowances	Attained Ages	No.	Monthly Allowances
4	1	\$ 96	35	7	\$ 1,626
			36	7	1,726
5	12	2,102	37	17	4,145
6	8	1,287	38	9	2,257
7	10	1,799	39	14	2,957
8	4.	648			_,,
9	8	1,554	40	17	4,223
			41	17	4,610
10	12	2,321	42	18	4,536
11	17	3,229	43	21	4,543
12	18	3,134	44	20	4,766
13	20	3,181			,,,,,,
14	18	2,706	45	32	7,137
160	- e		46	28	5,909
15	13	1,692	47	36	8,210
16	18	2,497	48	36	7,975
17	23	2,465	49	38	7,933
18	13	1,254			.,,,,,
19	6	759	50	41	8,255
			51	43	8,233
20	5	706	52	52	9,113
21	22	203	53	46	8,858
23	11	323	54	44	6,522
24	3	413			-,
4			55	52	8,537
26	2	347	56	51	8,516
27	3	652	57	67	9,931
28	4	834	58	6 6	9,699
29	4	870	59	77	10,127
30	3	608	60	78	9,745
31	7	1,782	61	79	11,705
32	4	933	62	109	13,846
33	7	1,847	63	143	17,118
34	6	1,425	64	139	17,515
No. of the last of					

(Schedule 14 concluded on Page 23)

Schedule 14. - concluded

LOCAL GOVERNMENT

Survivor Benefit Fund

Beneficiaries June 30, 1971

Tabulated by Attained Ages

Attained Ages	No.	Monthly Allowances
65	153	\$ 17,955
66	148	17,552
67	163	21,213
68	148	17,629
69	132	16,197
70	127	14,849
71	132	17,300
72	124	15,774
73	123	15,134
74	110	13,337
75	100	12,644
76	82	9,501
77	84	9,495
78	83	10,358
79	68	7,847
80	52	4,919
81	39	4,381
82	31	3,419
83	23	2,594
84	27	2,882
85	20	2,263
86	15	1,446
87	13	1,476
88	10	1,247
89	10	900
90	3	257
91	2	183
92	1	117
93	2	187
94	2	131
Totals	3,678	\$515,127

Schedule 15.

LOCAL GOVERNMENT

Survivor Benefit Fund

Deferred Beneficiaries June 30, 1971

Tabulated by Attained Ages and Deferment Ages

Attained		Monthly	Deret	red to Age 62 Monthly	Detel.	red to age 65 Monthly	<u>-</u>	Totals
Ages	No.	Allowances	No.	. Allowances	Νīα		37 -	Monthly
		11220Walleeb	110.	Allowances	No.	Allowances	No.	Allowances
31		\$	***	\$	1	\$ 96	1	\$ 96
38		in the process, the			1	96	1	96
39	*		. 1	91	1	96	2	187
41					2	192	2	192
42	· 11	and the first of	1	96	1	96	2	192
43				71	2	172	2	172
44			3.	272	3	288	6	560
45	Kara,		5	458			5	458
46	1	106	5	464	1	96	7	666
47	4	2 - H	6	553	ī	76	7	629
48	2	212	5	460	_	70	7	672
49	5	518	10	897	4 .	319	19	1,734
50			16	1,515	2	172	18	1,687
51			9	831	9	698	18	1,529
52			15	1,385	5	370	20	1,755
53		to	22	2,054	3	223	25	2,277
. 54			25	2,326	4	253	29	2,579
55			30	2,834	5	349	35	3,183
56			41	3,856	6	491	47	4,347
57			30	2,885	9	673	39	3,558
58			48	4,538	11	750	59	5,288
59			51	4,851	9	637	60	5,488
60			48	4,496	6	431	54	4,927
61			44	4,183	11	847	55	5,030
62			37	3,451	9	609	46	4,060
63			2	192	9	718	11	910
64			1	96	12	832	13	928
65					9	759	_ 9	759
Totals	8	\$836	455	\$42,784	136	\$10,339	599	\$53,959

Schedule 16.

LOCAL GOVERNMENT

Survivor Benefit Fund

Liabilities for Beneficiaries June 30, 1971
Tabulated by Type of Benefit Being Paid and To Be Paid

	Liabilities for						
	Group	Normal Annuities	Initial Pensions	Post-Retire. Increases	Current Total %	Current L Total \$	
	LIABILI	TIES FOR SU	RVIVOR BEN	EFITS BEING PA	ID		
	(Including Cases	Previously	Paid But	Now in Blackou	t Period)		
		oint and Su	rvivor Com	nputation			
	Men	18.2%	64.2%	17.6%	100.0%	\$ 352,080	
	Women	20.6	62.2	17.2	100.0	22,860,14	
	Total Liabilities for Joint and Survivor Benefits Being	-x 11 **					
	Paid Paid					00 010 00	
						23,212,22	
		Fixed B	enefit Amo	unt			
	Widower - no child		87.4	12.6	100.0	479,064	
	Parent - male	1	77.9	22.1	100.0	11,136	
J	Sub-totals - male					490,200	
	Widow - no child		00.0	157 1			
	Widow - child		82.9 84.0	¹ 17.1	100.0	24,421,044	
	Parents - female		86.5	16.0 13.5	100.0	16,519,188	
	Sub-totals - female		00.5	13.5	100.0	$\frac{168,108}{41,108,340}$	
						41,100,540	
	Child only		91.9	8.1	100.0	1,961,592	
	Total Liabilities for						
	Fixed Benefits					43,560,132	
				8		13,500,152	
	Total Liabilities for						
	Survivor Benefits Being Paid					66,772,356	
	LIABILI	TIES FOR DE	PERRED SUR	VIVOR BENEFITS			
	(No Monthly	Payment Be	ing Paid o	r Previously P	aid)		
		Fixed Bo	enefit Amo	unt			
	Widower - Deferred to age 65		91.9	8.1	100.0	339,372	
	Widow - deferred to age 50		86.3	13.7	100.0	• 173,016	
	- deferred to age 62		89.0	11.0	100.0	5,675,268	
	- deferred to age 65		87.4	12.6	100.0	700,896	
-	- Sub-totals	9				6,549,180	
1	Total Liabilities for						
j	Deferred Benefits		88.9	11.1	100.0	6,888,552	
	TOTAL LIABILITIES FOR					- , ,	
	SURVIVOR BENEFIT FUND					\$73,660,908	
						7/3,000,300	

APPENDIX

Schedule 17.

Single Life Retirement Values

Sample Attained	Present Va Monthly Increasing J (lst Increase	Future Life Expectancy (Years)		
Ages	Men	Women	Men	Women
40	\$241.17	\$258.21	35.48	40.21
45	221.89	241.17	30.85	35.48
50	201.07	221.89	26.44	30.85
5 5	179.14	201.07	22.30	26.44
60	156.06	179.14	18.43	22.30
65	131.91	156.06	14.80	18.43
70	108.22	131.91	11.58	14.80
75	85.81	108.22	8.79	11.58
. 80	66.21	85.81	6.54	8.79
85	51.11	66.21	4.89	6.54

Recommended Transfers From Employer Accumulation Fund To Cover Change In Assumed Interest Rate and 1.5% Escalator Provision

	Amounts to Be Transferred AS OF JULY 1, 1971			
muovo 6 vv. m	Change In Interest	1.5% Escalator Provision	Totals	
Transfer To	Assumption			
STATE DIVISION				
Annuity & Pension Reserve Fund				
SR SERVICE	\$(6,734,335)	\$19,632,968	\$12,898,633	
DR DISABILITY	(965,858)	2,796,350	1,830,492	
Total A & PR	(7,700,193)	22,429,318	14,729,125	
Survivor Benefit Fund				
Employer	(285,564)	478,656	193,092	
S-1	(544,980)	1,595,004		
S-2			1,050,024	
	(1,033,188)	2,535,636	1,502,448	
Total SBF	(1,863,732)	4,609,296	2,745,564	
	4			
Totals	(9,563,925)	27,038,614	17,474,689	
LOCAL GOVERNMENT DIVISION	7			
Annuity & Pension Reserve Fund				
SR	(11,598,881)	33,808,726	22,209,845	
DR	(1,316,686)	3,812,062		
	(-1,510,000)	3,012,002	2,495,376	
Total A & PR	(12,915,567)	37,620,788	24,705,221	
Survivor Benefit Fund				
Employer	(/// 1 90/)	7// 07/	200 1570	
	(441,804)	744,276	302,472	
S-1	(877,784)	2,569,392	1,691,608	
S-2	(1,813,260)	4,348,788	2,535,528	
Total SBF	(3,132,848)	7,662,456	4,529,608	
Totals	(16,048,415)	45,283,244	29,234,829	
	(10,040,415)	75,205,244	49,434,029	
TOTAL TRANSFER FROM				
EMPLOYER ACCUMULATION FUND	\$(25,612,340)	\$72,321,858	\$46,709,518	

June-39, 271-13al = 602,029, 288

Transporto for 5: 145 429, 125

Employer 7.F 5: 24, 705, 121

Tothe-A&P. Resource = 641, 463,584

Liability = 615, 660, 278

Swephers oner 10090

Resource Requirements or 104,276

12 of Interest assumption Pays 35.4% of 12% Escalator.
Benefit Cost of 12% Escalator.