

TRANSACTIONS OF SOCIETY OF ACTUARIES 1979 REPORTS

IV. MORTALITY UNDER INDIVIDUAL IMMEDIATE ANNUITIES, LIFE INCOME SETTLEMENTS, AND MATURED DEFERRED ANNUITIES BETWEEN 1971 AND 1976 ANNIVERSARIES

ABSTRACT

This report presents the 1971-76 mortality experience of fifteen large life insurance companies under (1) individual immediate annuities; (2) life income settlements arising out of death claims, subdivided into payee and nonpayee elections; (3) life income settlements arising out of maturities and surrenders; and (4) matured deferred annuity contracts issued in the United States and Canada during the years 1931-75, inclusive.

INDIVIDUAL IMMEDIATE ANNUITIES

As in earlier studies, the ratios of actual to expected mortality are generally lower (*a*) in the first five contract years than later, (*b*) at the older attained ages than at the younger, (*c*) at annual incomes of \$2,500 and over than at annual incomes of under \$2,500, and (*d*) by amounts of annual income than by number of contracts.

Compared with 1967-71, reductions in mortality ratios were observed for all male business and nonrefund female business. Ratios under female refund annuities remained approximately the same. Females exhibited generally lower mortality ratios than males. Ratios under nonrefund annuities were generally lower than those under refund annuities.

The current study includes for the first time a division of immediate annuity experience into pension trust issues and other than pension trust issues. In general, pension trust mortality ratios substantially exceed those for other than pension trust.

LIFE INCOME SETTLEMENTS AND MATURED DEFERRED ANNUITIES

Under life income settlements arising from death claims, the relative proportions of exposure under payee and nonpayee elections remained approximately the same as in the previous study. Under refund life income settlements arising from maturities and surrenders, the portion of experience under pension trust issues has declined from that of the previous study.

Mortality ratios under life income settlements have, in general, decreased since the previous study. Male ratios exceed female ratios, and the ratios decrease with advance in age. Under refund settlements arising from death claims, mortality ratios under payee elections are generally lower than those under nonpayee elections. Under settlements arising from maturities and surrenders, ratios for other than pension trust issues were lower than those under pension trust issues among male lives. For females, the overall ratios under pension

trust issues are at about the same level as those under other than pension trust issues.

Under matured deferred annuities, the ratios at the early durations (1-5) have decreased, while those at the later durations (6 and over) have increased since the previous study. In general, female ratios are lower than male ratios, ratios by amounts of annual income are lower than those by number of contracts, and ratios under other than pension trust issues are lower than those under pension trust issues.

The current study continues the analysis by size of annuity begun in the previous study. The experience has been separated into contracts with amounts of annual income of less than \$2,500 and those with annual incomes of \$2,500 or greater. Under both life income settlements and matured deferred annuities, the ratios at annual incomes of \$2,500 and over are higher.

The current study includes, for the first time, an analysis by issue-year group: issues of 1960 and later were separated from issues of 1959 and prior. The analysis is by amount of annual income. Among the older issues, the level of mortality for amounts of annual income over \$2,500 is quite close to the overall level. Among later issues, the higher-income group exhibited higher mortality ratios.

INDEX OF TABLES

INDIVIDUAL IMMEDIATE ANNUITIES

Table	Description
1-2	<i>Nonrefund Annuities</i> by Attained Age, Contract-Year Groups, and Sex, Based on (1) <i>a</i> -1949 Ultimate Table and (2) 1971 IAM Table
3-4	<i>Refund Annuities</i> by Attained Age, Contract-Year Groups, and Sex, Based on (3) <i>a</i> -1949 Ultimate Table and (4) 1971 IAM Table
5-6	<i>Nonrefund Annuities</i> by Income Groups, Contract-Year Groups, and Sex, Based on (5) <i>a</i> -1949 Ultimate Table and (6) 1971 IAM Table
7-8	<i>Refund Annuities</i> by Income Groups, Contract-Year Groups, and Sex, Based on (7) <i>a</i> -1949 Ultimate Table and (8) 1971 IAM Table
9	<i>Refund and Nonrefund Annuities</i> by Attained Ages and Sex, Pension Trust and Other than Pension Trust Issues, Based on 1971 IAM Table
10	<i>Refund and Nonrefund Annuities</i> by Income Groups and Sex, Pension Trust and Other than Pension Trust Issues, Based on 1971 IAM Table
11-14	<i>Trends</i> by Attained Age and Contract-Year Groups, Based on <i>a</i> -1949 Ultimate Table and 1971 IAM Table, for (11) <i>Nonrefund Annuities—Male Lives</i> , (12) <i>Nonrefund Annuities—Female Lives</i> , (13) <i>Refund Annuities—Male Lives</i> , and (14) <i>Refund Annuities—Female Lives</i>
15	<i>Issues of 1960-65 and Issues of 1931-59</i> , by Income Groups and Sex, Based on <i>a</i> -1949 Ultimate Table and 1971 IAM Table

LIFE INCOME SETTLEMENTS

Table	Description
16-17	<i>Refund Life Income Settlements from Death Claims</i> , by Attained-Age and Duration Groups, Payee and Nonpayee Elections, for (16) Male Lives and (17) Female Lives, Based on 1971 IAM Table
18	<i>Refund and Nonrefund Life Income Settlements from Death Claims</i> , Payee and Nonpayee Elections, by Sex, Based on 1971 IAM Table
19-20	<i>Refund Life Income Settlements from Maturities and Surrenders</i> , Pension Trust and Other Issues, by Attained-Age and Duration Groups, for (19) Male Lives and (20) Female Lives, Based on 1971 IAM Table
21	<i>Refund and Nonrefund Life Income Settlements from Maturities and Surrenders</i> , Pension Trust and Other, by Sex, Based on 1971 IAM Table
22-25	<i>Trends under Refund Life Income Settlements</i> , excluding Maturities and Surrenders under Pension Trust Issues, by Attained-Age and Duration Groups, Based on <i>a</i> -1949 Ultimate Table for (22) Male Payee Elections, (23) Female Payee Elections, (24) Male Nonpayee Elections, and (25) Female Nonpayee Elections
26	<i>Refund Life Income Settlements</i> , Payee Elections, excluding Maturities and Surrenders under Pension Trust Issues, <i>Issues of 1960-65 and Issues of 1931-59</i> , by Income Groups and Sex, Based on 1971 IAM Table
27	<i>Refund and Nonrefund Life Income Settlements from Death Claims</i> , Payee and Nonpayee Elections, by Size of Annuity and Sex, Based on 1971 IAM Table
28	<i>Refund and Nonrefund Life Income Settlements from Maturities and Surrenders</i> , Pension Trust and Other Issues, by Size of Annuity and Sex, Based on 1971 IAM Table

MATURED DEFERRED ANNUITIES

Table	Description
29-30	<i>Matured Deferred Annuities</i> , Refund Pension Trust and Other Issues and Nonrefund Other Issues, by Age and Duration Groups, for (29) Male Lives and (30) Female Lives, Based on 1971 IAM Table
31	<i>Refund and Nonrefund Matured Deferred Annuities</i> , Pension Trust and Other Issues, by Sex, Based on 1971 IAM Table
32-35	<i>Trends under Matured Deferred Annuities</i> , Other than Pension Trust Issues, by Attained-Age and Duration Groups, Based on <i>a</i> -1949 Ultimate Table for (32) Nonrefund Annuities—Male Lives, (33) Nonrefund Annuities—Female Lives, (34) Refund Annuities—Male Lives, and (35) Refund Annuities—Female Lives
36	<i>Refund Matured Deferred Annuities</i> , Issues of 1960-65 and Issues of 1931-59, by Income Groups and Sex, Based on 1971 IAM Table
37	<i>Refund and Nonrefund Matured Deferred Annuities</i> , Pension Trust and Other Issues, by Size of Annuity and Sex, Based on 1971 IAM Table

COMPARISONS

Table	Description
38	<i>Comparison of Contracts with Guaranteed Period or Refund Provision, by Attained Age, Duration Groups, and Sex, Based on 1971 IAM Table, of: (A) Payee Elections from Death Claims, (B) Life Income Settlements from Maturities and Surrenders (Other than Pension Trust), (C) Matured Deferred Annuities (Other than Pension Trust), and (D) Individual Immediate Annuities (Other than Pension Trust)</i>
39	<i>Comparison of Pension Trust Issues with Guaranteed Period or Refund Provision, by Attained Age, Duration Groups, and Sex, Based on 1971 IAM Table, of: (A) Life Income Settlements from Maturities and Surrenders, (B) Matured Deferred Annuities, and (C) Individual Immediate Annuities</i>
40	<i>Comparison of Pension Trust, Qualified Non-Pension Trust, and Non-qualified Annuities under Life Income Settlements from Maturities and Surrenders and Matured Deferred Annuities, Based on 1971 IAM Table</i>

Appendix
Table

A	<i>List of Contributing Companies with Proportions of Exposure Contributed by Each Company</i>
B	<i>Exposures and Deaths under Immediate Annuities: Number of Contracts and Amount of Annual Income, by Sex, Contract-Year Groups, and Type of Annuity</i>
C	<i>Distribution of Companies' Aggregate Mortality Ratios, by Number of Companies</i>
D	<i>Refund and Nonrefund Immediate Annuities, Pension Trust and Other Issues: Exposures, Actual and Expected Deaths, and Mortality Ratios, by Attained-Age Groups, Contract Years, and Sex</i>
E	<i>Refund Life Income Settlements from Death Claims, Payee and Nonpayee Elections: Exposures, Actual and Expected Deaths, and Mortality Ratios, by Attained-Age Groups, Duration, and Sex</i>
F	<i>Refund Life Income Settlements from Maturities and Surrenders, Pension Trust and Other Issues: Exposures, Actual and Expected Deaths, and Mortality Ratios, by Attained-Age Groups, Duration, and Sex</i>
G	<i>Refund and Nonrefund Matured Deferred Annuities, Pension Trust and Other Issues: Exposures, Actual and Expected Deaths, and Mortality Ratios, by Attained-Age Groups, Duration, and Sex</i>
H	<i>Nonrefund Life Income Settlements; Settlements from Death Claims, Payee and Nonpayee Elections; Settlements from Maturities and Surrenders, Pension Trust and Other Issues: Exposures, Actual and Expected Deaths, and Mortality Ratios, by Attained-Age Groups, Duration, and Sex</i>

A. INDIVIDUAL IMMEDIATE ANNUITIES

Introduction

THIS section of the report examines mortality between 1971 and 1976 contract anniversaries under individual immediate annuities issued in 1931-75. The previous report (*TSA, 1973 Reports*, p. 59) covered mortality experience from 1967 to 1971 contract anniversaries. Both refund and nonrefund annuities are included. Contracts providing for either cash or installment refund payments and annuities with a period certain are classified as refund annuities. The types of annuities excluded are the same as those in earlier studies (variable annuities as well as those listed in *TSA, 1964 Reports*, p. 80).

The study is on an attained-age basis, with attained age defined as age at issue plus contract year minus one. Age at issue is taken as the age nearest birthday on the issue date of the contract, or some reasonable approximation to that age.

Experience is reported by the use of ratios of actual to expected deaths. Expected deaths are based on the Annuity Table for 1949 Ultimate without projection and on the 1971 Individual Annuity Mortality Table. For each of these tables, separate expected death rates are used for males and females. The *a*-1949 Ultimate Table with Projection B, which had been used in previous studies, was not used in the calculation of expected deaths.

Previous studies are listed below:

- 1948-53 anniversaries—*TSA, 1954 Reports*, pp. 36-61
- 1953-58 anniversaries—*TSA, 1959 Reports*, pp. 67-102
- 1958-63 anniversaries—*TSA, 1964 Reports*, pp. 80-99
- 1963-67 anniversaries—*TSA, 1969 Reports*, pp. 5-62
- 1967-71 anniversaries—*TSA, 1973 Reports*, pp. 59-126

Table A of the Appendix contains the names of the fifteen contributing companies and their proportionate contributions to the experience based on amounts of annual income. Six past contributors did not provide data for the current study. For the most part, there does not appear to be any distortion in the overall results because of the changes in contributors. Table C of the Appendix shows the distribution of the contributing companies' aggregate mortality ratios by number of companies.

The present study is based on exposures of 612,356 contract years and \$547,003,974 annual income years; 35,000 contracts involving \$25,598,318 of annual income were terminated by death. Compared with the previous four-year study, the current five-year study shows an increase of 29

percent in the exposure by contract years and an increase of 58 percent in the exposures by amounts of annual income. The larger increase by amounts of annual income largely reflects the effect of monetary inflation.

An analysis of the exposures and deaths by sex, type of annuity, and contract-year group is given in Table B of the Appendix. Refund annuities accounted for 74 percent of the total exposures by amounts of annual income (as opposed to 63 percent in the previous study). Annuities on females accounted for about 60 percent of the total exposures by amount of annual income, compared with 63 percent in the previous study.

The accompanying table presents average amounts of annual income

AVERAGE AMOUNT OF ANNUAL INCOME UNDER
INDIVIDUAL IMMEDIATE ANNUITIES
DERIVED FROM FIRST-CONTRACT-YEAR EXPOSURES
IN LAST FIVE INTERCOMPANY STUDIES

EXPERIENCE	NONREFUND		REFUND	
	Male	Female	Male	Female
1953-58	\$ 760	\$ 507	\$ 529	\$ 427
1958-63	903	849	779	659
1963-67	1,403	1,150	1,126	967
1967-71	1,600	1,247	1,278	1,020
1971-76	1,674	1,577	1,593	1,289

derived from first-contract-year exposures in the five most recent inter-company studies. In the current study, as in prior studies, there has been an increase in this average amount in all four refund-sex categories, although the increase in male nonrefund annuities was modest. In comparing the 1967-71 and 1971-76 studies, it is important to note that the current study includes the experience under refund annuities of a large company that the previous study did not. For this company, the portion of its total exposure under refund annuities and the average amount of annual income among first-year exposures both exceed the "all companies" average.

Details of the current study concerning exposures, actual deaths, and expected deaths (1971 IAM) are contained in Table D of the Appendix.

*Experience in Relation to a-1949 Ultimate Table
and 1971 IAM Table*

Tables 1-4 present attained-age mortality ratios, for nonrefund and refund annuities separately, based on the a-1949 Ultimate Table and

TABLE 1
 INDIVIDUAL IMMEDIATE NONREFUND ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Male										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	<i>227%</i>	<i>144%</i>	*	*	*	*	<i>139%</i>
60-69	<i>83%</i>	<i>76%</i>	<i>96%</i>	<i>118</i>	<i>91</i>	<i>71%</i>	<i>105%</i>	<i>107%</i>	<i>117</i>	<i>97</i>
70-79	<i>71</i>	<i>90</i>	<i>91</i>	<i>90</i>	<i>89</i>	<i>69</i>	<i>96</i>	<i>90</i>	<i>98</i>	<i>90</i>
80-89	<i>65</i>	<i>69</i>	<i>82</i>	<i>81</i>	<i>79</i>	<i>52</i>	<i>54</i>	<i>72</i>	<i>83</i>	<i>71</i>
90 and over	*	*	<i>90</i>	<i>74</i>	<i>76</i>	*	<i>54</i>	<i>71</i>	<i>78</i>	<i>74</i>
All	<i>72%</i>	<i>79%</i>	<i>87%</i>	<i>82%</i>	<i>82%</i>	<i>63%</i>	<i>75%</i>	<i>79%</i>	<i>84%</i>	<i>78%</i>
Female										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	<i>566%</i>	<i>354%</i>	*	*	*	*	<i>685%</i>
60-69	<i>55%</i>	<i>80%</i>	<i>123%</i>	<i>289</i>	<i>132</i>	<i>53%</i>	<i>69%</i>	<i>86%</i>	<i>176</i>	<i>85</i>
70-79	<i>42</i>	<i>61</i>	<i>77</i>	<i>108</i>	<i>82</i>	<i>35</i>	<i>61</i>	<i>74</i>	<i>109</i>	<i>73</i>
80-89	<i>40</i>	<i>57</i>	<i>73</i>	<i>85</i>	<i>78</i>	<i>38</i>	<i>53</i>	<i>72</i>	<i>82</i>	<i>70</i>
90 and over	<i>75</i>	<i>50</i>	<i>61</i>	<i>72</i>	<i>71</i>	<i>136</i>	<i>49</i>	<i>67</i>	<i>73</i>	<i>72</i>
All	<i>44%</i>	<i>60%</i>	<i>74%</i>	<i>84%</i>	<i>78%</i>	<i>42%</i>	<i>57%</i>	<i>72%</i>	<i>83%</i>	<i>72%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
 * Fewer than 10 contracts terminated by death.

TABLE 2
 INDIVIDUAL IMMEDIATE NONREFUND ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Male										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	<i>287%</i>	<i>181%</i>	*	*	*	*	<i>177%</i>
60-69	<i>110%</i>	<i>102%</i>	<i>128%</i>	<i>157</i>	<i>121</i>	<i>95%</i>	<i>140%</i>	<i>143%</i>	<i>156</i>	<i>129</i>
70-79	<i>95</i>	<i>121</i>	<i>123</i>	<i>121</i>	<i>119</i>	<i>93</i>	<i>129</i>	<i>121</i>	<i>131</i>	<i>121</i>
80-89	<i>86</i>	<i>91</i>	<i>107</i>	<i>105</i>	<i>103</i>	<i>69</i>	<i>71</i>	<i>94</i>	<i>108</i>	<i>93</i>
90 and over	*	*	<i>107</i>	<i>84</i>	<i>88</i>	*	*	<i>85</i>	<i>89</i>	<i>86</i>
All	<i>96%</i>	<i>104%</i>	<i>114%</i>	<i>103%</i>	<i>105%</i>	<i>83%</i>	<i>99%</i>	<i>103%</i>	<i>105%</i>	<i>101%</i>
Female										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	<i>684%</i>	<i>425%</i>	*	*	*	*	<i>826%</i>
60-69	<i>76%</i>	<i>112%</i>	<i>173%</i>	<i>399</i>	<i>184</i>	<i>73%</i>	<i>97%</i>	<i>121%</i>	<i>247</i>	<i>118</i>
70-79	<i>59</i>	<i>86</i>	<i>108</i>	<i>151</i>	<i>116</i>	<i>49</i>	<i>86</i>	<i>104</i>	<i>152</i>	<i>102</i>
80-89	<i>49</i>	<i>71</i>	<i>90</i>	<i>104</i>	<i>96</i>	<i>48</i>	<i>66</i>	<i>89</i>	<i>100</i>	<i>86</i>
90 and over	<i>88</i>	<i>59</i>	<i>74</i>	<i>93</i>	<i>91</i>	<i>161</i>	<i>59</i>	<i>80</i>	<i>93</i>	<i>90</i>
All	<i>59%</i>	<i>79%</i>	<i>95%</i>	<i>106%</i>	<i>100%</i>	<i>56%</i>	<i>74%</i>	<i>92%</i>	<i>105%</i>	<i>92%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
 * Fewer than 10 contracts terminated by death.

TABLE 3

INDIVIDUAL IMMEDIATE REFUND ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Male										
Under 50	*	*	*	<i>313%</i>	<i>221%</i>	*	*	*	<i>1,020%</i>	<i>306%</i>
50-59	<i>93%</i>	<i>139%</i>	<i>156%</i>	<i>215%</i>	149	<i>93%</i>	<i>115%</i>	<i>182%</i>	<i>185</i>	123
60-69	77	84	94	121	87	73	76	100	159	82
70-79	74	82	88	107	92	85	79	88	96	86
80-89	67	78	83	89	85	78	86	79	92	85
90 and over	*	57	81	86	82	*	66	81	86	78
All	<i>72%</i>	<i>81%</i>	<i>87%</i>	<i>94%</i>	<i>87%</i>	<i>78%</i>	<i>80%</i>	<i>85%</i>	<i>95%</i>	<i>85%</i>
Female										
Under 50	*	*	*	*	<i>273%</i>	*	*	*	*	<i>296%</i>
50-59	<i>141%</i>	<i>139%</i>	<i>208%</i>	<i>185%</i>	169	<i>240%</i>	<i>103%</i>	<i>234%</i>	<i>174%</i>	191
60-69	76	91	87	106	89	79	124	98	112	103
70-79	54	82	79	92	82	51	85	72	87	75
80-89	47	70	74	92	86	51	81	72	91	80
90 and over	65	77	78	85	84	67	76	87	78	79
All	<i>58%</i>	<i>78%</i>	<i>78%</i>	<i>89%</i>	<i>85%</i>	<i>60%</i>	<i>87%</i>	<i>76%</i>	<i>86%</i>	<i>81%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 4

INDIVIDUAL IMMEDIATE REFUND ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Male										
Under 50	*	*	*	<i>389%</i>	<i>274%</i>	*	*	*	<i>1,273%</i>	<i>380%</i>
50-59	<i>118%</i>	<i>176%</i>	<i>197%</i>	<i>270</i>	189	<i>117%</i>	<i>146%</i>	<i>230%</i>	<i>233</i>	156
60-69	102	112	125	161	116	97	101	133	212	110
70-79	100	110	119	143	123	114	106	118	128	116
80-89	88	102	109	116	111	103	113	103	121	111
90 and over	*	67	97	100	96	*	78	96	101	92
All	<i>96%</i>	<i>108%</i>	<i>114%</i>	<i>120%</i>	<i>114%</i>	<i>102%</i>	<i>106%</i>	<i>112%</i>	<i>122%</i>	<i>111%</i>
Female										
Under 50	*	*	*	*	<i>302%</i>	*	*	*	*	<i>435%</i>
50-59	<i>168%</i>	<i>166%</i>	<i>249%</i>	<i>234%</i>	203	<i>289%</i>	<i>124%</i>	<i>281%</i>	<i>210%</i>	229
60-69	102	127	122	146	123	107	172	136	155	141
70-79	76	116	111	129	116	73	120	101	122	107
80-89	58	86	91	112	105	64	100	89	111	98
90 and over	78	92	93	108	107	80	90	103	99	99
All	<i>77%</i>	<i>103%</i>	<i>101%</i>	<i>113%</i>	<i>108%</i>	<i>80%</i>	<i>114%</i>	<i>98%</i>	<i>109%</i>	<i>104%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

the 1971 Individual Annuity Mortality Table. The main features of the 1971-76 experience are the following:

1. As in the previous study, the mortality ratios on the a -1949 Ultimate at attained ages 60 and over for all contract years combined are generally less than 100 percent. The ratios tend to be level or decreasing with advance in age, the sharpest drop occurring between the attained-age groups 50-59 and 60-69. Male ratios are generally higher than female ratios.
Aggregate mortality ratios on the 1971 IAM are generally over 100 percent except at attained ages 90 and over. All overall ratios for contract years 1 and 2 combined are less than 100 percent (except for male refund by amounts of annual income).
2. In general, the ratios for all ages combined increase with contract year. Self-selection appears to be greater for females than for males and greater in the case of nonrefund annuities than refund annuities. This is most apparent in the early contract years, where female ratios are particularly low. The previous study noted a select period of three to five years for males and of at least ten years for females. The mortality ratios of the current study indicate a select period of at least ten years for females and at least five years for males.
3. Ratios by amounts of annual income are generally lower than those by number of contracts.
4. Ratios under nonrefund annuities are generally lower than those under refund annuities.

Experience by Size of Annuity

Tables 5-8 present mortality ratios for nonrefund and refund annuities separately, analyzed by amounts of annual income. In each table, the overall mortality ratios for annual incomes of \$2,500 and over are lower than the ratios for all income levels combined. There does not appear to be any significant variation in the ratios by annual income group.

Pension Trust Experience

Tables 9 and 10 present, for the first time, an analysis of pension trust experience under immediate annuities. There was not sufficient experience to include an analysis by contract year, and, hence, the tables were prepared on an aggregate basis. Table 9 shows ratios by attained age and sex and Table 10 by income group and sex.

The ratios for pension trust issues are, in general, significantly higher than for other than pension trust issues.

Comparison with Previous Studies

A comparison of experience under individual immediate annuities for successive periods between 1948 and 1976 anniversaries is presented in

TABLE 5
INDIVIDUAL IMMEDIATE NONREFUND ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Contract Years			All Contract Years	Contract Years			All Contract Years
	1-5	6-10	11 and Over		1-5	6-10	11 and Over	
Male								
Under \$1,000 . . .	83%	86%	80%	82%	82%	82%	84%	83%
\$1,000-\$1,499 . . .	69	88	87	82	71	87	89	83
\$1,500-\$2,499 . . .	65	72	85	74	67	75	86	76
\$2,500-\$4,999 . . .	83	80	83	82	84	80	85	83
\$5,000-\$7,499 . . .	87	88	105	93	91	88	103	94
\$7,500 and over . . .	*	69	76	62	*	53	76	54
Unknown	79	104	82	88	75	96	73	83
\$2,500 and over . . .	77	79	86	81	67	70	86	74
All	76%	87%	82%	82%	70%	79%	84%	78%
Female								
Under \$1,000 . . .	53%	72%	84%	80%	53%	70%	84%	77%
\$1,000-\$1,499 . . .	57	79	84	76	57	79	84	75
\$1,500-\$2,499 . . .	51	67	84	68	51	65	82	66
\$2,500-\$4,999 . . .	48	69	86	68	50	71	85	68
\$5,000-\$7,499 . . .	55	112	102	88	54	105	102	86
\$7,500 and over . . .	*	*	*	48	*	*	*	40
Unknown	70	76	80	78	61	74	90	77
\$2,500 and over . . .	48	75	86	69	46	72	75	64
All	55%	74%	84%	78%	51%	72%	83%	72%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
* Fewer than 10 contracts terminated by death.

TABLE 6
INDIVIDUAL IMMEDIATE NONREFUND ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Contract Years			All Contract Years	Contract Years			All Contract Years
	1-5	6-10	11 and Over		1-5	6-10	11 and Over	
Male								
Under \$1,000	110%	113%	101%	104%	108%	107%	105%	106%
\$1,000-\$1,499	92	115	111	107	94	114	113	108
\$1,500-\$2,499	86	94	104	95	89	97	106	98
\$2,500-\$4,999	110	104	104	106	111	105	106	107
\$5,000-\$7,499	115	114	125	118	120	114	123	119
\$7,500 and over	*	89	97	81	*	69	97	69
Unknown	104	136	103	113	98	125	92	107
\$2,500 and over	102	103	107	104	89	92	107	95
All	101%	114%	103%	105%	93%	103%	105%	101%
Female								
Under \$1,000	70%	93%	107%	102%	69%	91%	107%	99%
\$1,000-\$1,499	76	101	106	97	76	101	105	96
\$1,500-\$2,499	67	85	107	87	67	83	104	85
\$2,500-\$4,999	63	87	109	86	64	89	107	87
\$5,000-\$7,499	71	139	128	112	69	131	127	108
\$7,500 and over	*	*	*	60	*	*	*	51
Unknown	93	98	102	100	79	94	114	98
\$2,500 and over	62	95	108	88	60	91	93	81
All	72%	95%	106%	100%	67%	92%	105%	92%

NOTE.—Number of contracts terminated by death shown in parentheses.
* Fewer than 10 contracts terminated by death.

TABLE 7
 INDIVIDUAL IMMEDIATE REFUND ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Contract Years			All Contract Years	Contract Years			All Contract Years
	1-5	6-10	11 and Over		1-5	6-10	11 and Over	
Male								
Under \$1,000	<i>76%</i>	<i>86%</i>	<i>92%</i>	<i>88%</i>	<i>77%</i>	<i>85%</i>	<i>95%</i>	<i>87%</i>
\$1,000-\$1,499	69	81	104	81	69	80	105	81
\$1,500-\$2,499	80	83	100	85	80	81	99	84
\$2,500-\$4,999	75	76	107	82	75	76	103	81
\$5,000-\$7,499	<i>71</i>	<i>86</i>	<i>67</i>	<i>75</i>	<i>70</i>	<i>88</i>	<i>63</i>	<i>74</i>
\$7,500 and over	<i>100</i>	<i>100</i>	*	<i>97</i>	<i>93</i>	<i>89</i>	*	<i>89</i>
Unknown	92	100	96	96	88	97	98	93
\$2,500 and over	78	80	97	82	80	82	87	82
All	78%	87%	94%	87%	79%	85%	95%	85%
Female								
Under \$1,000	<i>65%</i>	<i>77%</i>	<i>90%</i>	<i>87%</i>	<i>67%</i>	<i>76%</i>	<i>89%</i>	<i>83%</i>
\$1,000-\$1,499	64	72	84	74	63	72	84	73
\$1,500-\$2,499	82	71	84	79	82	70	82	78
\$2,500-\$4,999	76	75	71	74	77	73	70	74
\$5,000-\$7,499	<i>82</i>	<i>62</i>	<i>94</i>	<i>80</i>	<i>80</i>	<i>62</i>	<i>93</i>	<i>79</i>
\$7,500 and over	<i>64</i>	<i>75</i>	<i>83</i>	<i>73</i>	<i>67</i>	<i>64</i>	<i>88</i>	<i>70</i>
Unknown	90	88	83	86	106	96	88	97
\$2,500 and over	76	73	76	75	75	69	79	74
All	71%	78%	89%	85%	77%	76%	86%	81%

Note.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 8
 INDIVIDUAL IMMEDIATE REFUND ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Contract Years			All Contract Years	Contract Years			All Contract Years
	1-5	6-10	11 and Over		1-5	6-10	11 and Over	
Male								
Under \$1,000	100%	114%	117%	114%	103%	113%	121%	114%
\$1,000-\$1,499	91	106	135	107	91	105	136	106
\$1,500-\$2,499	106	109	129	112	106	107	129	111
\$2,500-\$4,999	99	100	138	107	99	100	132	106
\$5,000-\$7,499	<i>95</i>	<i>112</i>	<i>86</i>	99	<i>94</i>	<i>115</i>	<i>81</i>	97
\$7,500 and over	<i>133</i>	<i>132</i>	*	129	<i>123</i>	<i>118</i>	*	118
Unknown	121	132	122	125	116	127	126	122
\$2,500 and over	103	105	125	108	106	108	112	108
All	103%	114%	120%	114%	105%	112%	122%	111%
Female								
Under \$1,000	87%	102%	114%	110%	90%	100%	112%	106%
\$1,000-\$1,499	83	92	107	94	83	92	107	94
\$1,500-\$2,499	108	92	106	103	107	91	104	101
\$2,500-\$4,999	98	95	91	95	100	93	91	95
\$5,000-\$7,499	<i>105</i>	<i>79</i>	<i>120</i>	102	<i>104</i>	<i>79</i>	<i>120</i>	101
\$7,500 and over	<i>83</i>	<i>94</i>	<i>106</i>	93	<i>87</i>	<i>80</i>	<i>112</i>	90
Unknown	119	114	105	110	138	124	112	125
\$2,500 and over	98	93	98	96	98	87	102	95
All	94%	101%	113%	108%	101%	98%	109%	104%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
 * Fewer than 10 contracts terminated by death.

TABLE 9
 INDIVIDUAL IMMEDIATE ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 ALL CONTRACT YEARS COMBINED
 MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
 (A) PENSION TRUST ISSUES
 (B) OTHER THAN PENSION TRUST ISSUES

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
Nonrefund Annuities								
Under 50.....	*	*	*	*	*	*	*	*
50-59.....	*	<i>211%</i>	*	<i>505%</i>	*	<i>68%</i>	*	<i>345%</i>
60-69.....	<i>189%</i>	158	*	208	<i>101%</i>	171	*	123
70-79.....	215	126	<i>90%</i>	118	219	133	<i>174%</i>	102
80-89.....	<i>138</i>	99	<i>187</i>	98	25	93	<i>113</i>	85
90 and over.....	*	85	*	94	*	81	*	90
All.....	<i>166%</i>	<i>106%</i>	<i>133%</i>	<i>103%</i>	<i>90%</i>	<i>105%</i>	<i>139%</i>	<i>91%</i>
Refund Annuities								
Under 50.....	*	<i>215%</i>	*	*	*	<i>316%</i>	*	*
50-59.....	*	213	*	<i>190%</i>	*	183	*	<i>180%</i>
60-69.....	<i>128%</i>	112	<i>124%</i>	121	<i>113%</i>	108	<i>114%</i>	135
70-79.....	122	120	<i>101</i>	117	142	110	<i>117</i>	105
80-89.....	<i>120</i>	105	<i>174</i>	104	223	105	<i>234</i>	95
90 and over.....	*	97	*	108	*	92	*	103
All.....	<i>123%</i>	<i>109%</i>	<i>125%</i>	<i>108%</i>	<i>139%</i>	<i>106%</i>	<i>110%</i>	<i>102%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 10
 INDIVIDUAL IMMEDIATE REFUND ANNUITIES
 ISSUES OF 1931-75
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 ALL CONTRACT YEARS COMBINED
 MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
 (A) PENSION TRUST ISSUES
 (B) OTHER THAN PENSION TRUST ISSUES

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(B)
Under \$1,000 . . .	120%	112%	133%	111%	121%	113%	139%	106%
\$1,000-\$1,499 . . .	134	101	*	92	129	101	*	92
\$1,500-\$2,499 . . .	109	106	*	103	106	107	*	102
\$2,500-\$4,999 . . .	127	103	*	94	122	103	*	95
\$5,000-\$7,499 . . .	120	96	*	91	116	96	*	91
\$7,500 and over	147	122	*	89	182	103	*	80
Unknown	*	112	*	100	*	118	*	160
\$2,500 and over	130	104	157	93	148	102	174	90
All	123%	109%	125%	108%	139%	106%	140%	102%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
 * Fewer than 10 contracts terminated by death.

Tables 11-14. The tables show mortality ratios based on the *a*-1949 Ultimate Table for all years of issue and on the 1971 IAM Table for issues of 1967 and later.

Previous studies have computed "all-ages adjusted" mortality ratios to compensate for changes in the distribution of exposures by attained age and duration from the earlier to the later periods. These adjustments have been continued in the current study, but their impact on the all-ages mortality ratio is slight, and we expect to omit these adjustments in future studies.

The following comments are based on Tables 11-14, using the *a*-1949 Ultimate Table:

Male nonrefund.—The all-ages ratios in each contract-year group decreased from those in the 1967-71 study. The ratios based on amounts of annual income decreased considerably both for contract years 1-5 and for years 6 and over, while ratios based on number of contracts decreased significantly only for years 6 and over.

The overall ratio is lower, by number and by amount, than in any previous study. The greatest reductions occurred at ages 70 and over.

Female nonrefund.—Mortality ratios have decreased substantially since the 1967-71 period, following a modest decline from the 1963-67 period to the 1967-71 period. Most of the reduction in mortality was at ages 80 and over.

Male refund.—Overall mortality ratios have decreased substantially both by number of contracts and amounts of annual income, with significant decreases occurring for most ages and durations.

Female refund.—There was little difference from the previous study in the overall mortality ratios. However, for contract years 1-5, ratios generally decreased by number of contracts and increased by amounts of annual income. For years 6 and over, the ratios have not changed much between the two periods.

Experience on Issues of 1960-65 and Issues of 1931-59

In the previous study, a separation of the experience into two issue-year groups—1959 and prior, and 1960 and later—was made to permit a monitoring of experience on issues of 1960 and later in response to the rise in average amounts of annual income purchased during the later 1950s and the early 1960s. Table 15 presents a comparison of the two issue-year groups for refund and nonrefund experience. The table shows *ultimate* experience only, so that the results will be more comparable.

Under nonrefund annuities, the mortality ratios by amounts of annual income exceed those by number of contracts for issues of 1931-59 (Group 1) for both males and females. For issues of 1960-65 (Group 2), the ratios by number of contracts exceed those by amounts of annual income for

TABLE 11
 COMPARISON OF MORTALITY RATIOS ON INDIVIDUAL IMMEDIATE
 NONREFUND ANNUITIES—MALE LIVES
 EXPERIENCE BETWEEN 1948 AND 1976 ANNIVERSARIES
 EXPECTED DEATHS BASED ON ANNUITY TABLE FOR 1949 ULTIMATE AND
 1971 INDIVIDUAL IMMEDIATE ANNUITY TABLE
 BASED ON NUMBER OF CONTRACTS

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60.....	<i>89%</i>	<i>134%</i>	*	<i>106%</i>	*	*	*	*
60-69.....	92	113	54%	73	82%	79%	110%	105%
70-79.....	88	98	72	74	81	83	109	111
80 and over.....	64	81	53	79	73	68	96	89
All ages.....	80%	95%	59%	76%	77%	76%	103%	101%
All ages adjusted.....	78%	94%	60%	76%	77%	76%	102%	101%
Contract Years 6 and Over								
Under 60.....	103%	131%	<i>231%</i>	<i>134%</i>	*	<i>235%</i>	*	<i>296%</i>
60-69.....	89	91	97	67	116%	105	154	140
70-79.....	113	106	101	92	105	91	140	122
80 and over.....	93	98	104	90	92	79	115	99
All ages.....	101%	100%	103%	90%	95%	83%	121%	106%
All ages adjusted.....	98%	100%	103%	90%	96%	83%	122%	106%
All Contract Years								
Under 60.....	99%	132%	<i>169%</i>	<i>119%</i>	74%	263%	N.A.	232%
60-69.....	90	97	83	70	96	91	128%	121
70-79.....	109	105	96	86	96	89	130	119
80 and over.....	90	97	100	89	89	78	112	98
All ages.....	97%	100%	98%	87%	91%	82%	117%	105%
All ages adjusted.....	95%	99%	98%	87%	91%	82%	117%	105%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.
 * Fewer than 10 contracts terminated by death.

TABLE 11—Continued
 BASED ON AMOUNTS OF ANNUAL INCOME

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60	<i>127%</i>	<i>211%</i>	*	<i>101%</i>	*	*	*	*
60-69	123	90	66%	72	88%	90%	117%	119%
70-79	83	78	71	75	96	86	129	115
80 and over	76	96	49	77	65	53	87	70
All ages	86%	89%	58%	76%	78%	70%	104%	93%
All ages adjusted	85%	89%	59%	76%	80%	70%	106%	93%
Contract Years 6 and Over								
Under 60	<i>95%</i>	<i>168%</i>	<i>334%</i>	<i>98%</i>	*	<i>91%</i>	*	<i>116%</i>
60-69	101	127	116	92	115%	110	153%	147
70-79	128	97	101	81	108	93	145	125
80 and over	93	107	98	87	82	77	103	96
All ages	105%	106%	100%	86%	88%	82%	111%	104%
All ages adjusted	102%	105%	100%	86%	89%	82%	114%	104%
All Contract Years								
Under 60	<i>106%</i>	<i>180%</i>	<i>189%</i>	<i>101%</i>	<i>145%</i>	<i>70%</i>	<i>N.A.</i>	<i>88%</i>
60-69	108	115	93	77	95	97	126%	129
70-79	118	93	92	78	102	90	136	121
80 and over	91	106	90	84	77	72	97	91
All ages	102%	103%	91%	82%	84%	78%	108%	101%
All ages adjusted	100%	103%	91%	82%	85%	78%	109%	101%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.
 * Fewer than 10 contracts terminated by death.

TABLE 12
 COMPARISON OF MORTALITY RATIOS ON INDIVIDUAL IMMEDIATE
 NONREFUND ANNUITIES — FEMALE LIVES
 EXPERIENCE BETWEEN 1948 AND 1976 ANNIVERSARIES
 EXPECTED DEATHS BASED ON ANNUITY TABLE FOR 1949 ULTIMATE AND
 1971 INDIVIDUAL IMMEDIATE ANNUITY TABLE
 BASED ON NUMBER OF CONTRACTS

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60.....	<i>98%</i>	<i>247%</i>	<i>214%</i>	<i>214%</i>	<i>351%</i>	*	N.A.	*
60-69.....	83	93	81	84	86	70%	118%	97%
70-79.....	75	90	81	68	61	54	86	77
80 and over.....	61	66	77	64	64	53	80	65
All ages.....	73%	83%	80%	69%	66%	55%	86%	72%
All ages adjusted.....	69%	78%	79%	68%	66%	55%	85%	72%
Contract Years 6 and Over								
Under 60.....	121%	<i>146%</i>	<i>134%</i>	<i>142%</i>	<i>267%</i>	<i>520%</i>	N.A.	<i>642%</i>
60-69.....	109	97	122	102	125	198	175%	277
70-79.....	109	101	105	97	98	93	137	131
80 and over.....	101	96	102	91	91	77	113	96
All ages.....	104%	97%	103%	92%	92%	81%	116%	103%
All ages adjusted.....	102%	97%	103%	92%	93%	81%	117%	103%
All Contract Years								
Under 60.....	114%	165%	<i>154%</i>	<i>176%</i>	<i>308%</i>	<i>397%</i>	N.A.	<i>487%</i>
60-69.....	102	96	112	93	103	132	143%	184
70-79.....	105	100	103	90	86	82	121	116
80 and over.....	99	95	102	90	89	75	110	94
All ages.....	101%	97%	102%	90%	89%	78%	113%	100%
All ages adjusted.....	100%	96%	102%	90%	89%	78%	113%	100%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.
 * Fewer than 10 contracts terminated by death.

TABLE 12—Continued
 BASED ON AMOUNTS OF ANNUAL INCOME

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60	<i>94%</i>	<i>111%</i>	<i>207%</i>	<i>382%</i>	<i>257%</i>	*	N.A.	*
60-69	93	85	59	55	74	62%	102%	86%
70-79	75	86	71	63	46	51	65	72
80 and over	63	65	75	68	65	51	82	63
All ages	73%	77%	73%	67%	59%	51%	77%	67%
All ages adjusted	70%	74%	73%	66%	59%	51%	77%	67%
Contract Years 6 and Over								
Under 60	<i>112%</i>	<i>101%</i>	<i>132%</i>	<i>119%</i>	<i>168%</i>	<i>503%</i>	N.A.	<i>613%</i>
60-69	109	87	127	80	115	116	160%	163
70-79	112	100	111	88	93	87	131	122
80 and over	101	97	99	93	90	75	112	93
All ages	105%	97%	102%	92%	91%	78%	115%	99%
All ages adjusted	103%	97%	102%	92%	91%	78%	116%	99%
All Contract Years								
Under 60	<i>106%</i>	<i>103%</i>	<i>169%</i>	<i>301%</i>	<i>227%</i>	<i>278%</i>	N.A.	<i>337%</i>
60-69	104	87	102	63	88	85	121%	118
70-79	106	98	102	77	69	73	98	102
80 and over	98	95	98	89	85	71	106	87
All ages	101%	96%	99%	86%	82%	72%	105%	92%
All ages adjusted	100%	95%	99%	86%	82%	72%	105%	92%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.
 * Fewer than 10 contracts terminated by death.

TABLE 13
 COMPARISON OF MORTALITY RATIOS ON INDIVIDUAL IMMEDIATE
 REFUND ANNUITIES—MALE LIVES
 EXPERIENCE BETWEEN 1948 AND 1976 ANNIVERSARIES
 EXPECTED DEATHS BASED ON ANNUITY TABLE FOR 1949 ULTIMATE AND
 1971 INDIVIDUAL IMMEDIATE ANNUITY TABLE
 BASED ON NUMBER OF CONTRACTS

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60.....	<i>136%</i>	<i>185%</i>	<i>170%</i>	<i>174%</i>	<i>181%</i>	<i>123%</i>	N.A.	<i>155%</i>
60-69.....	121	112	102	104	95	81	126%	107
70-79.....	110	117	90	86	90	79	121	106
80 and over.....	94	75	83	74	75	70	101	91
All ages.....	110%	105%	93%	91%	88%	78%	118%	103%
All ages adjusted....	109%	104%	93%	90%	89%	78%	118%	103%
Contract Years 6 and Over								
Under 60.....	<i>128%</i>	<i>134%</i>	<i>102%</i>	<i>120%</i>	<i>97%</i>	<i>194%</i>	N.A.	<i>244%</i>
60-69.....	128	140	119	105	107	105	142%	140
70-79.....	122	120	110	104	101	97	136	131
80 and over.....	97	101	100	104	93	87	117	109
All ages.....	111%	111%	104%	104%	96%	91%	123%	118%
All ages adjusted....	106%	109%	104%	104%	96%	91%	124%	118%
All Contract Years								
Under 60.....	<i>130%</i>	<i>142%</i>	<i>115%</i>	<i>140%</i>	<i>132%</i>	<i>158%</i>	N.A.	<i>198%</i>
60-69.....	126	134	113	104	99	87	131%	116
70-79.....	120	119	108	99	97	92	131	123
80 and over.....	97	100	99	102	90	84	114	106
All ages.....	111%	111%	103%	102%	94%	87%	122%	114%
All ages adjusted....	108%	111%	104%	102%	94%	87%	122%	114%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.

TABLE 13—Continued
 BASED ON AMOUNTS OF ANNUAL INCOME

ATTAINED AGES	a. 1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60.....	215%	<i>241%</i>	<i>127%</i>	117%	235%	109%	N.A.	138%
60-69.....	140	114	102	91	98	74	130%	99
70-79.....	110	110	98	85	91	81	122	109
80 and over.....	109	92	86	75	70	79	97	103
All ages.....	122%	108%	96%	84%	87%	79%	117%	105%
All ages adjusted.....	120%	107%	96%	84%	89%	79%	118%	105%
Contract Years 6 and Over								
Under 60.....	154%	178%	125%	167%	<i>86%</i>	218%	N.A.	274%
60-69.....	138	134	138	124	99	115	132%	153
70-79.....	128	117	115	102	106	91	142	122
80 and over.....	100	107	103	103	103	85	130	109
All ages.....	116%	114%	109%	105%	104%	90%	134%	117%
All ages adjusted.....	113%	113%	110%	104%	104%	90%	134%	117%
All Contract Years								
Under 60.....	171%	189%	126%	135%	182%	139%	N.A.	176%
60-69.....	139	129	121	98	98	82	131%	110
70-79.....	124	116	111	94	99	86	132	116
80 and over.....	101	105	101	96	91	83	117	107
All ages.....	117%	113%	107%	96%	96%	85%	125%	111%
All ages adjusted.....	116%	114%	108%	96%	96%	85%	125%	111%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.

TABLE 14
 COMPARISON OF MORTALITY RATIOS ON INDIVIDUAL IMMEDIATE
 REFUND ANNUITIES—FEMALE LIVES
 EXPERIENCE BETWEEN 1948 AND 1976 ANNIVERSARIES
 EXPECTED DEATHS BASED ON ANNUITY TABLE FOR 1949 ULTIMATE AND
 1971 INDIVIDUAL IMMEDIATE ANNUITY TABLE
 BASED ON NUMBER OF CONTRACTS

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60.....	93%	<i>104%</i>	<i>119%</i>	<i>119%</i>	169%	158%	N.A.	191%
60-69.....	125	100	82	79	80	84	108%	116
70-79.....	95	82	91	73	76	72	108	102
80 and over.....	96	72	98	77	67	64	83	79
All ages.....	102%	82%	93%	77%	75%	71%	99%	94%
All ages adjusted.....	101%	81%	93%	76%	74%	71%	97%	94%
Contract Years 6 and Over								
Under 60.....	172%	160%	171%	140%	190%	195%	236%	238%
60-69.....	125	113	120	103	93	95	128	132
70-79.....	114	110	104	96	87	86	123	121
80 and over.....	107	101	102	99	87	87	108	108
All ages.....	112%	105%	103%	99%	87%	87%	112%	110%
All ages adjusted.....	109%	103%	103%	99%	87%	87%	111%	110%
All Contract Years								
Under 60.....	152%	151%	166%	131%	180%	178%	222%	217%
60-69.....	125	111	112	93	86	89	117	123
70-79.....	111	108	103	92	84	82	118	116
80 and over.....	106	100	102	98	85	85	106	105
All ages.....	111%	104%	103%	97%	86%	85%	109%	108%
All ages adjusted.....	108%	102%	103%	97%	85%	85%	109%	108%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.

TABLE 14—Continued
 BASED ON AMOUNTS OF ANNUAL INCOME

ATTAINED AGES	a-1949 ULTIMATE						1971 IAM	
	1948-53	1953-58	1958-63	1963-67	1967-71	1971-76	1967-71	1971-76
Contract Years 1-5								
Under 60	92%	92%	113%	72%	137%	192%	N.A.	235%
60-69	135	106	83	107	87	104	118%	141
70-79	93	117	103	73	76	72	108	102
80 and over	99	82	92	71	63	71	79	88
All ages	103%	101%	96%	78%	73%	77%	96%	101%
All ages adjusted	102%	97%	95%	77%	72%	77%	94%	101%
Contract Years 6 and Over								
Under 60	186%	183%	179%	138%	202%	210%	247%	257%
60-69	119	118	118	109	80	102	109	142
70-79	120	112	107	91	86	78	122	110
80 and over	106	104	105	98	81	82	101	101
All ages	113%	108%	106%	97%	83%	82%	106%	105%
All ages adjusted	110%	107%	106%	97%	82%	82%	106%	105%
All Contract Years								
Under 60	160%	164%	157%	96%	162%	199%	199%	244%
60-69	122	115	108	108	84	103	115	141
70-79	116	113	107	84	82	75	115	107
80 and over	106	103	104	94	77	80	95	98
All ages	112%	107%	105%	92%	80%	81%	103%	104%
All ages adjusted	110%	107%	105%	92%	79%	81%	101%	104%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death. N.A. = not available.

TABLE 15
 INDIVIDUAL IMMEDIATE ANNUITIES
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 CONTRACT YEARS 11 AND OVER
 MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE
 (1) ISSUES OF 1931-59
 (2) ISSUES OF 1960-65

INCOME GROUPS	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Nonrefund								
Under \$1,000 . . .	73%	106%	83%	90%	77%	101%	84%	86%
\$1,000-\$1,499 . . .	91	84	88	79	92	85	87	80
\$1,500-\$2,499 . . .	88	82	80	89	89	84	77	87
\$2,500-\$4,999 . . .	81	85	83	88	86	83	84	86
\$5,000-\$7,499 . . .	*	169	*	107	*	168	*	103
\$7,500 and over	*	*	*	*	*	*	*	*
Unknown	81	86	81	76	79	63	93	86
\$2,500 and over	80	93	83	88	80	93	78	73
All	76%	97%	83%	87%	81%	88%	84%	81%
Refund								
Under \$1,000 . . .	93%	89%	92%	76%	97%	89%	91%	75%
\$1,000-\$1,499 . . .	111	97	85	84	111	97	85	83
\$1,500-\$2,499 . . .	100	100	82	88	98	100	80	86
\$2,500-\$4,999 . . .	115	100	63	87	113	95	60	90
\$5,000-\$7,499 . . .	*	77	93	95	*	71	90	97
\$7,500 and over	*	*	*	*	*	*	*	*
Unknown	96	94	82	86	104	90	91	81
\$2,500 and over	105	92	70	85	97	81	72	87
All	94%	92%	91%	79%	100%	89%	88%	82%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
 * Fewer than 10 contracts terminated by death.

TABLE 15—Continued

MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

INCOME GROUPS	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Nonrefund								
Under \$1,000	92 ^c _t	137 ^c _t	105 ^c _t	114 ^c _t	96 ^c _t	131 ^c _t	106 ^c _t	109 ^c _t
\$1,000-\$1,499	113	110	111	99	115	112	110	100
\$1,500-\$2,499	106	102	102	111	107	105	99	109
\$2,500-\$4,999	101	108	106	111	107	106	106	108
\$5,000-\$7,499	*	215	*	134	*	214	*	128
\$7,500 and over	*	*	*	*	*	*	*	*
Unknown	101	112	103	96	98	81	118	107
\$2,500 and over	98	118	105	110	97	118	97	91
All	95 ^c _t	125 ^c _t	105 ^c _t	110 ^c _t	100 ^c _t	113 ^c _t	107 ^c _t	102 ^c _t
Refund								
Under \$1,000	118 ^c _t	117 ^c _t	115 ^c _t	98 ^c _t	122 ^c _t	117 ^c _t	115 ^c _t	97 ^c _t
\$1,000-\$1,499	142	128	107	107	142	127	108	106
\$1,500-\$2,499	128	131	102	114	126	132	101	111
\$2,500-\$4,999	146	130	81	112	144	123	77	115
\$5,000-\$7,499	*	98	121	120	*	91	118	123
\$7,500 and over	*	*	*	*	*	*	*	*
Unknown	122	122	104	110	133	116	114	103
\$2,500 and over	134	119	90	109	124	105	93	110
All	119 ^c _t	120 ^c _t	114 ^c _t	101 ^c _t	127 ^c _t	117 ^c _t	111 ^c _t	104 ^c _t

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

both sexes. It seems that self-selection by healthy lives is more prevalent among recent issues than among older ones. However, the level of mortality for Group 1 is generally lower than that for Group 2 and is considerably lower than that reported in the previous study for the same issue years. Perhaps there has been a distortion in the analysis resulting from a change in the number of contributors to the current study from the previous one. For Group 2, the highest ratio occurred in the income group \$5,000-\$7,499 for both males and females. The data for this income group are, however, rather limited.

Under refund annuities, the ratios for Group 2 are, in general, lower than those for Group 1 for both sexes. In each income group, where there was a significant amount of data, the male ratios are higher than the female ratios, in both issue-year periods.

B. LIFE INCOME SETTLEMENTS AND MATURED DEFERRED ANNUITIES

Introduction

This section of the report covers the intercompany experience under the following three major categories of contracts between 1971 and 1976 anniversaries:

1. Life income settlements arising out of death claims, subdivided into
 - a) Payee elections
 - b) Nonpayee elections.
 Experience arising from unknown elections has been excluded.
2. Life income settlements arising out of (a) the maturity of endowment or retirement income policies or (b) the cash surrender of insurance or annuity contracts.
3. Maturities of deferred annuity contracts, including maturities at optional retirement dates, with a death benefit prior to maturity and a cash value at maturity substantially equal to the reserve.

Categories 1 and 2 include settlements that are regarded as supplementary contracts, even though they may have a rate basis applicable to new annuity issues. In the past, single-life settlements arising from the maturity or surrender of the original contract by the person insured were included in the study only if the insured had the option of electing a single-sum settlement equal to the full present value of the life income. This has been changed, and, in the current study, the settlement has been included even if the insured did not have such an option, provided that the policy was issued under a pension trust contract.

The limited data on nonrefund contracts precluded making the more extensive analyses made on refund contracts. Accordingly, only brief summaries are shown, comparing nonrefund and refund settlements in the aggregate.

Previous studies are listed below:

- 1945-50 anniversaries—*TSA, 1951 Reports*, pp. 19-71
- 1950-55 anniversaries—*TSA, 1956 Reports*, pp. 37-109
- 1955-60 anniversaries—*TSA, 1961 Reports*, pp. 40-82
- 1960-65 anniversaries—*TSA, 1966 Reports*, pp. 191-247 (supplement)
- 1965-70 anniversaries—*TSA, 1972 Reports*, pp. 57-161

Table A of the Appendix shows the names of the fifteen contributing companies and their proportionate contributions. Table C of the Ap-

pendix shows the distribution of the contributing companies' aggregate mortality ratios by number of companies.

Life Income Settlements Arising from Death Claims

The exposures, actual deaths, and expected deaths are shown in Table E of the Appendix for refund settlements and in Table H for nonrefund settlements.

Tables 16 and 17 present mortality ratios on the 1971 IAM Table under refund settlements by attained-age and duration groups for males and females, respectively; payee and nonpayee elections are shown separately. For male lives, 36 percent of the total exposure (by amounts of annual income) is under payee elections and 64 percent is under nonpayee elections (as opposed to 35 percent and 65 percent in the previous study).

Table 16 shows that, in general: (i) the ratios under payee elections are lower than those under nonpayee elections, (ii) under payee elections

TABLE 16
REFUND LIFE INCOME SETTLEMENTS
ARISING FROM DEATH CLAIMS—MALE LIVES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Durations				All Durations	Durations				All Durations
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Payee Elections										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	<i>201%</i>	<i>173%</i>	*	*	*	<i>124%</i>	<i>199%</i>
60-69	*	*	*	<i>120</i>	<i>114</i>	*	*	*	<i>80</i>	<i>90</i>
70-79	*	*	<i>135%</i>	<i>127</i>	<i>127</i>	*	*	<i>102%</i>	<i>130</i>	<i>117</i>
80-89	*	*	*	<i>90</i>	<i>96</i>	*	*	*	<i>66</i>	<i>82</i>
90 and over	*	*	*	<i>104</i>	<i>104</i>	*	*	*	<i>93</i>	<i>93</i>
All	*	<i>92%</i>	<i>156%</i>	<i>113%</i>	<i>116%</i>	*	<i>100%</i>	<i>149%</i>	<i>95%</i>	<i>103%</i>
Nonpayee Elections										
Under 50	*	*	*	*	<i>162%</i>	*	*	*	*	<i>163%</i>
50-59	*	*	*	<i>187%</i>	<i>148</i>	*	*	*	<i>203%</i>	<i>164</i>
60-69	*	*	*	<i>153</i>	<i>134</i>	*	*	*	<i>158</i>	<i>135</i>
70-79	*	*	<i>179%</i>	<i>155</i>	<i>158</i>	*	*	<i>321%</i>	<i>167</i>	<i>175</i>
80-89	*	*	*	<i>133</i>	<i>123</i>	*	*	*	<i>137</i>	<i>122</i>
90 and over	*	*	*	*	*	*	*	*	*	*
All	*	<i>113%</i>	<i>113%</i>	<i>149%</i>	<i>138%</i>	*	<i>73%</i>	<i>169%</i>	<i>153%</i>	<i>141%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

the ratios by amounts of annual income are lower than those by number of contracts, and (iii) under nonpayee elections the ratios by amounts of annual income are higher than those by number of contracts. These relationships were observed also in the previous study.

For female lives, 42 percent of the exposure by amounts of annual income is under payee elections and 58 percent is under nonpayee elections (as opposed to 43 percent and 57 percent, respectively, in the previous study). In Table 17 the ratios under payee elections are generally lower than those under nonpayee elections, except at ages 90 and over. Payee elections show considerable self-selection by amounts of annual income (i.e., lower mortality ratios by amounts of annual income than by number of contracts) at the early durations. Apart from duration group 1-2, however, the ratios by number of contracts and by amounts of annual income are fairly close under both types of elections.

Table 18 shows that the volume of experience under nonrefund settle-

TABLE 17
REFUND LIFE INCOME SETTLEMENTS
ARISING FROM DEATH CLAIMS—FEMALE LIVES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Durations				All Durations	Durations				All Durations
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Payee Elections										
Under 50.....	*	*	*	*	*	*	*	*	*	*
50-59.....	<i>236%</i>	<i>*</i>	<i>195%</i>	<i>165%</i>	<i>178%</i>	<i>273%</i>	<i>*</i>	<i>198%</i>	<i>162%</i>	<i>169%</i>
60-69.....	<i>137</i>	<i>115%</i>	109	126	121	<i>132</i>	<i>152</i>	103	129	125
70-79.....	<i>80</i>	103	105	111	109	67	87	117	109	107
80-89.....	<i>59</i>	105	91	101	100	62	104	87	102	100
90 and over.....	<i>*</i>	<i>*</i>	83	101	101	<i>*</i>	<i>*</i>	74	102	101
All.....	96%	107%	100%	104%	104%	87%	104%	101%	104%	104%
Nonpayee Elections										
Under 50.....	*	*	*	<i>550%</i>	<i>346%</i>	*	*	*	<i>650%</i>	<i>403%</i>
50-59.....	<i>130%</i>	<i>210%</i>	<i>137%</i>	193	175	<i>189%</i>	<i>296%</i>	<i>146%</i>	191	200
60-69.....	123	135	142	135	136	117	138	149	145	142
70-79.....	92	110	119	125	121	96	111	122	123	120
80-89.....	84	107	95	103	102	112	101	100	103	103
90 and over.....	<i>*</i>	90	69	98	94	<i>*</i>	92	90	94	93
All.....	93%	115%	108%	112%	111%	105%	114%	112%	109%	110%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
* Fewer than 10 contracts terminated by death.

ments is small relative to that under refund settlements. The overall ratios for nonrefund settlements are generally lower than those under refund settlements, as expected. However, under nonrefund settlements, nonpayee elections exhibit ratios that are lower than those under payee elections. The ratio by amounts of annual income under male nonrefund nonpayee elections is particularly low.

Life Income Settlements Arising from Maturities and Surrenders

The exposures, actual deaths, and expected deaths are shown in Table F of the Appendix for refund settlements and in Table H for nonrefund settlements.

The portion of total exposure by amounts of annual income under pension trust issues has declined since the most recent study. Under refund settlements, they are 18 percent of the total, down from 20 percent, while under nonrefund settlements, they are 7 percent of the total, down from 22 percent.

Tables 19 and 20 present mortality ratios on the 1971 IAM Table for refund settlements, on pension trust and other than pension trust issues, respectively, by sex. The overall ratios (all ages and durations combined) were each over 100 percent, male ratios significantly exceeding female ratios.

Table 19 shows that, for male lives, the general level of mortality under other than pension trust issues is much lower than that under pension

TABLE 18
LIFE INCOME SETTLEMENTS ARISING FROM DEATH CLAIMS
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(All Ages and Durations Combined)

	BY NUMBER OF CONTRACTS		BY AMOUNT OF ANNUAL INCOME	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Payee elections.....	116% (222)	104% (7,380)	103%	104%
Nonpayee elections.....	138 (307)	111 (7,816)	141	110
Without a guaranteed period or refund provision:				
Payee elections.....	109 (48)	94 (525)	127	97
Nonpayee elections.....	89 (27)	82 (503)	64	84

NOTE.—Number of contracts terminated by death shown in parentheses.

trust issues. The overall ratios by age and duration are generally over 100 percent for both pension trust and other than pension trust issues. However, the relatively low mortality ratios for durations 1-2 indicate considerable self-selection. Under pension trust issues, ratios by number generally exceed those by amount; for other than pension trust issues, those by number are lower.

Table 20 shows that the pattern of female mortality is somewhat different. For females there is very little difference in the overall ratios (i) between pension trust and other than pension trust issues and (ii) between those by number of contracts and those by amounts of annual income. However, as for males but even more significantly so, female mortality ratios for durations 1-2 indicate considerable self-selection.

Table 21 presents a summary of male and female experience comparing refund and nonrefund settlements under maturities and surrenders. Under other than pension trust issues, the level of mortality on nonrefund

TABLE 19
REFUND LIFE INCOME SETTLEMENTS
ARISING FROM MATURITIES AND SURRENDERS—MALE LIVES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Durations				All Durations	Durations				All Durations
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Other than Pension Trust Issues										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	<i>151%</i>	<i>166%</i>	*	*	<i>148%</i>	<i>122%</i>	<i>208%</i>	*	*	<i>166%</i>
60-69	84	105	114%	121%	103	96	99	114%	126%	103
70-79	85	130	126	120	122	111	144	123	118	122
80-89	<i>83</i>	137	126	119	119	<i>68</i>	186	129	125	127
90 and over	*	*	<i>128</i>	89	90	*	*	<i>154</i>	98	100
All	86%	114%	124%	116%	116%	98%	123%	123%	120%	119%
Pension Trust Issues										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	<i>215%</i>	*	*	*	*	<i>215%</i>
60-69	<i>104%</i>	<i>122%</i>	<i>167%</i>	<i>257%</i>	128	<i>100%</i>	<i>124%</i>	<i>158%</i>	<i>358%</i>	121
70-79	<i>138</i>	118	143	154	149	<i>107%</i>	121	148	146	143
80-89	*	*	<i>84</i>	142	140	*	*	<i>101</i>	127	122
90 and over	*	*	*	<i>90</i>	<i>88</i>	*	*	*	<i>95</i>	<i>94</i>
All	113%	120%	142%	147%	143%	102%	118%	144%	135%	132%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 20
REFUND LIFE INCOME SETTLEMENTS
ARISING FROM MATURITIES AND SURRENDERS—FEMALE LIVES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Durations				All Durations	Durations				All Durations
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
Other than Pension Trust Issues										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	<i>103%</i>	<i>216%</i>	<i>151%</i>	<i>140%</i>	*	<i>70%</i>	<i>135%</i>	<i>151%</i>	<i>109%</i>
60-69	<i>73%</i>	108	108	131	105	<i>74%</i>	99	110	138	101
70-79	<i>63</i>	89	105	104	103	<i>64</i>	98	111	109	107
80-89	*	<i>79</i>	103	102	102	*	<i>83</i>	138	101	102
90 and over	*	*	<i>82</i>	104	103	*	*	<i>66</i>	102	102
All	<i>71%</i>	<i>101%</i>	<i>106%</i>	<i>104%</i>	<i>103%</i>	<i>70%</i>	<i>96%</i>	<i>115%</i>	<i>104%</i>	<i>103%</i>
Pension Trust Issues										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	<i>51%</i>	<i>118%</i>	<i>123%</i>	<i>432%</i>	<i>113%</i>	<i>43%</i>	<i>173%</i>	<i>115%</i>	<i>265%</i>	<i>116%</i>
70-79	*	<i>90</i>	95	110	104	*	<i>63</i>	105	109	104
80-89	*	*	*	103	104	*	*	*	91	84
90 and over	*	*	*	*	*	*	*	*	*	*
All	<i>63%</i>	<i>108%</i>	<i>97%</i>	<i>112%</i>	<i>105%</i>	<i>60%</i>	<i>128%</i>	<i>103%</i>	<i>103%</i>	<i>102%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.
* Fewer than 10 contracts terminated by death.

TABLE 21
LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

	BY NUMBER OF CONTRACTS		BY AMOUNT OF ANNUAL INCOME	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Other than pension trust	<i>116%</i> (10,072)	<i>103%</i> (7,688)	<i>119%</i>	<i>103%</i>
Pension trust	143 (4,621)	105 (544)	132	102
Without a guaranteed period or refund provision:				
Other than pension trust	108 (1,202)	106 (1,298)	116	101
Pension trust	177 (187)	131 (53)	149	106

NOTE.—Number of contracts terminated by death shown in parentheses.

settlements is close to that under refund settlements for both males and females. Under pension trust settlements the level under nonrefund settlements is higher than that under refund settlements.

Tables 22-25 summarize mortality ratios under refund settlements in broad age and duration groups for each of the last six study periods. Pension trust issues were excluded from the experience after 1950; the increasing importance of these issues and the different pattern of mortality experienced under them would obscure the trends. It was not possible to exclude the experience prior to 1950 under pension trust issues, but the experience was so small that its effect is negligible. Payee and nonpayee elections are shown separately; the experience on payee elections combines settlements arising from death claims and maturities and surrenders.

Under male payee elections (Table 22), the overall mortality ratios at durations 1-5 have decreased since the previous study, while those at durations 6 and over have remained nearly level. In fact, the overall mortality ratios for durations 6 and over have remained nearly level since the 1960-65 period, both by number and amount. For durations 1-5, the ratio by number has decreased steadily since 1960-65, but that by amount is now at the same level as in 1960-65.

Overall mortality ratios under female payee elections (Table 23) have decreased for both duration groups by number of contracts and by amounts of annual income. This has been the pattern for all studies presented in the table. By attained age, the trend has been definitely downward for ages 60 and over both by number and amount, while for ages under 60 the sequence is rather irregular.

Substantial decreases in the overall male nonpayee election mortality ratios have occurred since the previous study (Table 24). At durations 6 and over, the decrease has been dramatic at ages 60-69, both by number of contracts and by amounts of annual income.

There has been a slight decrease in the overall mortality ratios under female nonpayee elections since the previous study (Table 25). However, the mortality ratios for ages under 60, both by number and amount, in this and the previous study have generally been greater than those in prior studies.

Analysis by Issue-Year Group

Table 26 presents a division of the ultimate experience into two issue-year groups, 1931-59 (Group 1) and 1960-65 (Group 2), similar to that for immediate annuities (Table 15, in Sec. A on immediate annuities). The table presents mortality ratios by income groups under refund settle-

TABLE 22

TREND OF MORTALITY UNDER REFUND LIFE INCOME SETTLEMENTS
EXCLUDING MATURITIES AND SURRENDERS UNDER PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE
MALE PAYEE ELECTIONS ARISING FROM MATURITIES, SURRENDERS, AND DEATH CLAIMS

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	87%	90%	84%	126%	89%	125%	78%	89%	90%	118%	88%	129%
60-69.....	102	87	90	86	86	72	111	87	91	84	86	73
70 and over..	87	96	99	81	78	88	82	98	95	80	94	99
All.....	96%	90%	92%	88%	84%	78%	101%	90%	92%	85%	89%	85%
Durations 6 and Over												
Under 60....	117%	98%	104%	108%	98%	128%	89%	111%	111%	105%	166%	158%
60-69.....	105	98	100	87	86	88	104	98	102	84	84	87
70 and over..	108	101	100	93	91	90	112	100	101	90	90	92
All.....	108%	101%	100%	92%	90%	90%	110%	100%	102%	89%	90%	91%
All Durations												
Under 60....	93%	92%	90%	122%	92%	126%	79%	94%	95%	115%	107%	139%
60-69.....	102	90	93	86	86	77	110	90	94	84	86	77
70 and over..	102	100	100	92	90	90	103	100	100	89	90	92
All.....	102%	96%	97%	91%	89%	88%	105%	95%	98%	88%	89%	90%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

TABLE 23

TREND OF MORTALITY UNDER REFUND LIFE INCOME SETTLEMENTS
EXCLUDING MATURITIES AND SURRENDERS UNDER PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE
FEMALE PAYEE ELECTIONS ARISING FROM MATURITIES, SURRENDERS, AND DEATH CLAIMS

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	119%	96%	88%	115%	128%	122%	112%	107%	79%	128%	125%	97%
60-69.....	101	87	79	71	75	71	104	87	83	73	76	71
70 and over..	89	83	82	77	66	63	90	85	87	74	69	62
All.....	101%	87%	81%	77%	74%	69%	101%	89%	85%	77%	74%	67%
Durations 6 and Over												
Under 60....	145%	132%	119%	143%	130%	147%	150%	143%	131%	159%	205%	137%
60-69.....	109	96	93	89	89	86	114	101	95	95	94	87
70 and over..	110	100	94	94	85	80	106	101	96	94	88	81
All.....	112%	100%	95%	94%	86%	80%	111%	102%	97%	95%	89%	81%
All Durations												
Under 60....	129%	113%	104%	130%	129%	137%	126%	123%	105%	145%	165%	119%
60-69.....	105	92	88	83	84	80	109	94	90	88	87	80
70 and over..	105	98	93	93	85	79	102	98	95	93	87	80
All.....	108%	97%	92%	92%	85%	80%	107%	98%	94%	93%	88%	80%

NORE.—Mortality ratio in italics where 10-49 contracts terminated by death.

TABLE 24

TREND OF MORTALITY UNDER REFUND LIFE INCOME SETTLEMENTS
EXCLUDING MATURITIES AND SURRENDERS UNDER PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

MALE NONPAYEE ELECTIONS ARISING FROM MATURITIES, SURRENDERS, AND DEATH CLAIMS

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	<i>209%</i> 137	<i>203%</i> 180	<i>221%</i> 161	<i>147%</i> 226	<i>178%</i> *	*	<i>118%</i> 121	<i>241%</i> 169	<i>336%</i> 194	<i>147%</i> 231	<i>152%</i> *	*
60-69.....	<i>136</i>	<i>191</i>	<i>106</i>	<i>98</i>	*	<i>81%</i>	<i>269</i>	<i>169</i>	<i>109</i>	<i>60</i>	<i>*</i>	<i>69%</i>
70 and over..	<i>186</i>	<i>191</i>	<i>106</i>	<i>98</i>	*	<i>81%</i>	<i>269</i>	<i>169</i>	<i>109</i>	<i>60</i>	<i>*</i>	<i>69%</i>
All.....	<i>171%</i>	<i>192%</i>	<i>156%</i>	<i>155%</i>	<i>118%</i>	<i>73%</i>	<i>205%</i>	<i>183%</i>	<i>197%</i>	<i>136%</i>	<i>79%</i>	<i>60%</i>
Durations 6 and Over												
Under 60....	<i>280%</i>	<i>209%</i>	<i>213%</i>	<i>154%</i>	<i>149%</i>	<i>134%</i>	<i>237%</i>	<i>240%</i>	<i>233%</i>	<i>181%</i>	<i>163%</i>	<i>161%</i>
60-69.....	<i>201</i>	<i>134</i>	<i>127</i>	<i>134</i>	<i>150</i>	<i>106</i>	<i>215</i>	<i>77</i>	<i>136</i>	<i>126</i>	<i>174</i>	<i>110</i>
70 and over..	<i>86</i>	<i>133</i>	<i>113</i>	<i>116</i>	<i>107</i>	<i>106</i>	<i>117</i>	<i>170</i>	<i>132</i>	<i>104</i>	<i>127</i>	<i>112</i>
All.....	<i>154%</i>	<i>153%</i>	<i>145%</i>	<i>130%</i>	<i>128%</i>	<i>110%</i>	<i>162%</i>	<i>159%</i>	<i>162%</i>	<i>126%</i>	<i>147%</i>	<i>119%</i>
All Durations												
Under 60....	<i>253%</i>	<i>207%</i>	<i>215%</i>	<i>152%</i>	<i>154%</i>	<i>120%</i>	<i>185%</i>	<i>240%</i>	<i>265%</i>	<i>172%</i>	<i>161%</i>	<i>130%</i>
60-69.....	<i>168</i>	<i>144</i>	<i>135</i>	<i>150</i>	<i>141</i>	<i>101</i>	<i>209</i>	<i>88</i>	<i>151</i>	<i>143</i>	<i>159</i>	<i>102</i>
70 and over..	<i>111</i>	<i>145</i>	<i>111</i>	<i>114</i>	<i>105</i>	<i>103</i>	<i>159</i>	<i>169</i>	<i>125</i>	<i>99</i>	<i>114</i>	<i>105</i>
All.....	<i>160%</i>	<i>162%</i>	<i>148%</i>	<i>133%</i>	<i>127%</i>	<i>106%</i>	<i>180%</i>	<i>166%</i>	<i>172%</i>	<i>128%</i>	<i>135%</i>	<i>108%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 25

TREND OF MORTALITY UNDER REFUND LIFE INCOME SETTLEMENTS
EXCLUDING MATURITIES AND SURRENDERS UNDER PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE
FEMALE NONPAYEE ELECTIONS ARISING FROM MATURITIES, SURRENDERS AND DEATH CLAIMS

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	121%	144%	135%	134%	138%	148%	128%	148%	138%	145%	153%	199%
60-69.....	111	102	98	99	87	97	116	101	108	99	110	96
70 and over..	113	112	120	97	84	76	111	115	102	89	77	78
All.....	114%	114%	105%	101%	88%	82%	116%	115%	107%	95%	86%	84%
Durations 6 and Over												
Under 60....	140%	162%	151%	141%	164%	158%	159%	159%	155%	135%	177%	165%
60-69.....	127	116	113	106	103	101	124	119	112	118	107	107
70 and over..	129	110	114	103	85	83	126	112	114	106	86	83
All.....	129%	115%	116%	105%	88%	85%	129%	116%	116%	109%	89%	85%
All Durations												
Under 60....	130%	154%	144%	139%	156%	155%	142%	153%	148%	139%	169%	176%
60-69.....	121	111	108	104	100	100	121	111	110	112	108	105
70 and over..	125	110	111	102	85	82	122	113	111	103	85	82
All.....	124%	115%	113%	104%	88%	85%	124%	116%	113%	106%	89%	85%

ments only, for payee elections arising from death claims and for maturities and surrenders (excluding pension trust issues) combined. The experience under nonrefund settlements was too limited to permit such an analysis. The table shows that, for issues of 1931-59, the ratios at annual incomes of \$2,500 and over are generally less than overall ratios. For issues of 1960-65, the ratios for annual incomes of \$2,500 and over are substantially greater than the overall ratios.

Mortality by Size of Annuity

Tables 27 and 28 present an analysis of the experience by income group. The tables present mortality ratios for all ages and durations combined, separated into annual income groups of less than \$2,500, and \$2,500 and over. The number of deaths in each cell appears in parentheses next to the mortality ratio.

Under life income settlements arising from death claims (Table 27), the male experience at annual incomes of \$2,500 and over is too limited

TABLE 26
REFUND LIFE INCOME SETTLEMENTS ON PAYEE ELECTIONS ARISING FROM
DEATH CLAIMS AND ON MATURITIES AND SURRENDERS EXCLUDING
PENSION TRUST ISSUES
COMBINED EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
DURATIONS 11 AND OVER
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(1) ISSUES OF 1931-59
(2) ISSUES OF 1960-65

INCOME GROUP	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Under \$1,000	113%	117%	104%	99%	113%	117%	105%	101%
\$1,000-\$1,499	117	128	98	88	117	126	99	88
\$1,500-\$2,499	125	123	105	88	123	121	105	90
\$2,500-\$4,999	114	<i>128</i>	98	<i>112</i>	114	<i>131</i>	96	<i>108</i>
\$5,000-\$7,499	*	*	84	*	*	*	82	*
\$7,500 and over	<i>161</i>	*	*	*	<i>141</i>	*	*	*
Unknown	126	139	114	112	153	159	119	107
\$2,500 and over	115	132	98	<i>115</i>	116	135	101	<i>115</i>
All	115%	120%	105%	99%	118%	124%	105%	100%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 27

LIFE INCOME SETTLEMENTS ARISING FROM DEATH CLAIMS
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS BY AMOUNT OF ANNUAL INCOME
ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(All Ages and Durations Combined)

	ANNUAL INCOME OF LESS THAN \$2,500		ANNUAL INCOME OF \$2,500 OR MORE	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Payee elections.....	102% (191)	102% (5,997)	83% (4)	99% (189)
Nonpayee elections..	129 (242)	109 (6,225)	166 (6)	110 (249)
Without a guaranteed period or refund provision:				
Payee elections.....	113 (45)	95 (506)	285 (2)	109 (9)
Nonpayee elections..	69 (25)	83 (483)	0 (0)	80 (11)

NOTE.—Number of contracts terminated by death shown in parentheses.

TABLE 28

LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS BY AMOUNT OF ANNUAL INCOME
ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(All Ages and Durations Combined)

	ANNUAL INCOME OF LESS THAN \$2,500		ANNUAL INCOME OF \$2,500 OR MORE	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Other than pension trust.....	116% (9,011)	102% (6,883)	127% (308)	112% (80)
Pension trust.....	140 (4,375)	98 (532)	118 (235)	122 (11)
Without a guaranteed period or refund provision:				
Other than pension trust.....	114 (1,162)	103 (1,248)	142 (30)	96 (35)
Pension trust.....	149 (179)	118 (52)	148 (8)	57 (1)

NOTE.—Number of contracts terminated by death shown in parentheses.

to afford any meaningful comparison with the lower-income group. For females the two income groups are not significantly different except in the case of nonrefund payee elections, where the higher-income group exhibits a higher mortality ratio.

Under maturities and surrenders (Table 28), the male ratios for other than pension trust issues are greater for incomes of \$2,500 and over than for \$2,500 and under. For females under refund settlements the \$2,500 and over income group exhibits higher ratios than the under \$2,500 group, for both pension trust and other than pension trust issues; the reverse is true for females under nonrefund settlements.

Matured Deferred Annuities

Exposures, actual deaths, and expected deaths are shown in Table G of the Appendix. The primary features of the exposure are as follows: males accounted for 46 percent of the exposure by amounts of annual income (up from 44 percent in the previous study). For male lives, 23 percent of the exposure is under pension trust issues and 88 percent of the exposure is under refund annuities. For female lives, 3 percent of the exposure is under pension trust issues and 73 percent is under refund annuities.

Table 29 presents mortality ratios on the 1971 IAM Table for male lives under refund annuities, both pension trust and other than pension trust issues, and under nonrefund other than pension trust issues. By number of contracts, the sequences of mortality ratios for refund annuities indicate a select period of perhaps two years. The level of pension trust mortality is higher than for other than pension trust issues as expected, but the overall pattern by duration is rather similar. The volume of data for nonrefund other than pension trust issues is too limited to permit an analysis by duration. However, the ultimate mortality ratios and aggregate ratios are quite close to those exhibited by refund other than pension trust issues. Generally, the lowest aggregate ratios occur at ages 90 and over.

Table 30 presents mortality ratios for females that are comparable to those of Table 29. Under refund other than pension trust issues, the sequence of ratios by contracts (all ages combined) indicates a select period of about five years. Under pension trust, mortality ratios generally decrease with duration; also, the aggregate ratios decrease substantially with advance in age—suggesting that the health of the annuitants at retirement was impaired. As is true for males, the overall level of mortality

for females under other than pension trust issues is approximately the same for refund as it is for nonrefund settlements.

Table 31 compares the overall ratios of refund and nonrefund matured deferred annuities under pension trust and other than pension trust issues for male and female lives. For refund and nonrefund issues, the level of mortality on pension trust is generally higher than that under other than pension trust. Ratios by number of contracts are similar to those by

TABLE 29
MATURED DEFERRED ANNUITIES—MALE LIVES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
OTHER THAN PENSION TRUST ISSUES—Refund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	94%	119%	117%	122%	113%	75%	135%	119%	128%	114%
70-79	102	117	117	119	118	90	127	99	120	112
80-89	*	*	125	125	125	*	*	172	119	122
90 and over	*	*	*	111	111	*	*	*	103	103
All	95%	118%	118%	121%	120%	81%	136%	110%	117%	116%
OTHER THAN PENSION TRUST ISSUES—Nonrefund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	211%	98%	184%	*	131%	92%	89%	107%	*	90%
70-79	*	*	93	116%	104	*	*	130	123%	120
80-89	*	*	*	128	128	*	*	*	119	119
90 and over	*	*	*	97	97	*	*	*	102	102
All	152%	78%	99%	119%	115%	65%	76%	129%	117%	116%
PENSION TRUST ISSUES—Refund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	110%	171%	240%	141%	163%	72%	197%	117%	93%	144%
70-79	*	239	179	169	171	*	291	188	172	179
80-89	*	*	161	148	148	*	*	161	138	138
90 and over	*	*	*	118	117	*	*	*	127	129
All	116%	179%	182%	156%	159%	85%	212%	181%	151%	157%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

amounts of annual income, except for nonrefund pension trust issues, where the ratios by contract substantially exceed those by amount.

Trend of Mortality under Matured Deferred Annuities

Tables 32-35 present summaries of the mortality ratios based on the *a*-1949 Ultimate Table in broad age and duration groups for each of the last six study periods. Pension trust issues were excluded from the experience after 1950 anniversaries. It was not possible to exclude the experi-

TABLE 30
MATURED DEFERRED ANNUITIES - FEMALE LIVES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS					BASED ON AMOUNTS OF ANNUAL INCOME				
	Contract Years				All Contract Years	Contract Years				All Contract Years
	1-2	3-5	6-10	11 and Over		1-2	3-5	6-10	11 and Over	
OTHER THAN PENSION TRUST ISSUES—Refund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	99%	105%	115%	134%	113%	123%	103%	125%	109%	116%
70-79	63	79	110	116	114	35	80	113	109	107
80-89	*	*	82	108	108	*	*	84	105	105
90 and over	*	*	*	106	106	*	*	*	101	101
All	89%	96%	110%	109%	109%	105%	95%	111%	105%	106%
OTHER THAN PENSION TRUST ISSUES—Nonrefund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	*	116%	103%	117%	104%	*	106%	109%	202%	108%
70-79	*	97	102	117	115	*	133	121	114	117
80-89	*	*	*	106	106	*	*	*	108	107
90 and over	*	*	*	111	111	*	*	*	108	108
All	*	110%	102%	110%	109%	*	118%	114%	110%	110%
PENSION TRUST ISSUES—Refund										
Under 50	*	*	*	*	*	*	*	*	*	*
50-59	*	*	*	*	*	*	*	*	*	*
60-69	*	170%	300%	*	199%	*	208%	135%	*	149%
70-79	*	*	165	144%	146	*	*	189	142%	149
80-89	*	*	*	104	105	*	*	*	106	124
90 and over	*	*	*	108	107	*	*	*	89	88
All	*	198%	169%	123%	132%	*	276%	172%	119%	139%

NOTE.—Mortality ratio in italics were 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 31
MATURED DEFERRED ANNUITIES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(All Ages and Durations Combined)

	BY NUMBER OF CONTRACTS		BY AMOUNT OF ANNUAL INCOME	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Other than pension trust . . .	120% (5,690)	109% (11,018)	116%	106%
Pension trust	159 (4,517)	132 (458)	157	139
Without a guaranteed period or refund provision:				
Other than pension trust . . .	115 (1,177)	109 (4,842)	116	110
Pension trust	185 (146)	128 (48)	109	116

NOTE.—Number of contracts terminated by death shown in parentheses.

ence prior to 1950 under pension trust issues, but the effect of their inclusion is minimal.

Male nonrefund (Table 32).—The overall ratios have increased since the previous study, except for durations 1-5 by amounts of annual income. In this category the decrease was substantial and the ratio is rather low (54 percent). The overall ratios, all ages and durations combined, are at the same level as in 1955-60 and 1960-65, by number and amount, of about 90 percent.

Female nonrefund (Table 33).—The all-ages ratios have increased in all categories since the previous study. As for males, the increases in aggregate ratios by amounts of annual income reflect increases at ages 70 and over; the ratios by amount generally decreased at ages 60-69.

Male refund (Table 34).—The overall ratios by amounts of annual income decreased slightly. By contracts, there was a decrease at durations 1-5 (due to a large reduction at ages 60-69) but an increase at durations 6 and over.

Female refund (Table 35).—At durations 1-5, the ratios by contract and by amounts of annual income decreased—rather substantially at ages 70 and over. At durations 6 and over, the ratios increased. The net overall effect was a small increase by amount and a somewhat larger increase by number of contracts.

Analysis by Issue-Year Group

Table 36 presents an analysis of the ultimate experience by issue-year groups, analogous to that presented for immediate annuities and life income settlements. The analysis separates issues of 1931-59 (Group 1) from those of 1960-65 (Group 2). The table presents ratios only for refund

TABLE 32

TREND OF MORTALITY UNDER NONREFUND MATURED DEFERRED ANNUITIES - MALE LIVES
 OTHER THAN PENSION TRUST ISSUES
 EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
 MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	89%	79%	77%	69%	64%	94%	83%	57%	67%	88%	66%	67%
70 and over..	115	62	96	106	58	*	84	48	90	118	61	*
All.....	96%	74%	82%	75%	65%	71%	83%	54%	78%	95%	64%	54%
Durations 6 and Over												
Under 60....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	222%	75%	95%	86%	116%	105%	213%	46%	94%	102%	122%	70%
70 and over..	104	104	93	94	76	89	103	99	92	86	78	92
All.....	123%	100%	93%	93%	77%	89%	120%	91%	92%	87%	80%	91%
All Durations												
Under 60....	*	*	83%	*	*	*	*	*	173%	*	*	*
60-69.....	115%	78%	82	73%	76%	98%	110%	55%	75	91%	76%	68%
70 and over..	107	99	93	94	75	88	98	91	92	88	78	90
All.....	109%	91%	90%	90%	76%	88%	102%	78%	88%	89%	77%	88%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 33
TREND OF MORTALITY UNDER NONREFUND MATURED DEFERRED ANNUITIES—FEMALE LIVES
OTHER THAN PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-60
Durations 1-5												
Under 60....	<i>152%</i>	<i>216%</i>	<i>116%</i>	<i>113%</i>	*	*	<i>116%</i>	<i>128%</i>	<i>98%</i>	<i>151%</i>	*	*
60-69.....	89	75	69	70	<i>75%</i>	<i>75%</i>	80	70	59	65	<i>78%</i>	<i>67%</i>
70 and over..	91	98	66	71	40	72	75	112	69	65	36	99
All.....	<i>91%</i>	<i>85%</i>	<i>70%</i>	<i>71%</i>	<i>65%</i>	<i>74%</i>	<i>80%</i>	<i>82%</i>	<i>62%</i>	<i>67%</i>	<i>63%</i>	<i>80%</i>
Durations 6 and Over												
Under 60....	*	*	<i>330%</i>	*	*	*	*	*	<i>243%</i>	*	*	*
60-69.....	<i>98%</i>	<i>95%</i>	79	<i>91%</i>	<i>80%</i>	<i>73%</i>	<i>101%</i>	<i>90%</i>	77	<i>97%</i>	<i>81%</i>	<i>82%</i>
70 and over..	105	100	90	95	74	86	100	94	89	93	73	86
All.....	<i>103%</i>	<i>99%</i>	<i>89%</i>	<i>95%</i>	<i>75%</i>	<i>86%</i>	<i>100%</i>	<i>94%</i>	<i>87%</i>	<i>94%</i>	<i>73%</i>	<i>86%</i>
All Durations												
Under 60....	<i>150%</i>	<i>223%</i>	<i>168%</i>	<i>104%</i>	*	*	<i>118%</i>	<i>135%</i>	<i>127%</i>	<i>134%</i>	*	*
60-69.....	92	84	74	82	<i>78%</i>	<i>74%</i>	86	78	68	82	<i>80%</i>	<i>77%</i>
70 and over..	103	100	90	95	74	86	95	96	88	92	72	86
All.....	<i>99%</i>	<i>96%</i>	<i>87%</i>	<i>93%</i>	<i>74%</i>	<i>86%</i>	<i>92%</i>	<i>91%</i>	<i>83%</i>	<i>91%</i>	<i>73%</i>	<i>85%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 34

TREND OF MORTALITY UNDER REFUND MATURED DEFERRED ANNUITIES—MALE LIVES
OTHER THAN PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
	Durations 1-5											
Under 60.....	157%	147%	144%	144%	96%	*	172%	123%	111%	135%	75%	*
60-69.....	132	115	117	105	101	82%	133	122	111	94	102	83%
70 and over..	122	103	87	98	71	85	100	95	87	111	73	91
All.....	130%	113%	109%	105%	91%	82%	123%	112%	101%	101%	87%	86%
	Durations 6 and Over											
Under 60.....	211%	70%	97%	71%	*	*	167%	128%	121%	62%	*	*
60-69.....	168	104	111	118	89%	89%	137	107	109	115	77%	92%
70 and over..	111	103	105	103	87	93	115	100	108	103	91	89
All.....	121%	103%	105%	104%	87%	93%	119%	101%	108%	103%	90%	89%
	All Durations											
Under 60.....	166%	130%	131%	119%	88%	*	171%	124%	113%	111%	87%	*
60-69.....	138	112	115	110	97	85%	134	118	111	101	94	86%
70 and over..	114	103	103	103	87	93	109	99	104	103	89	89
All.....	126%	107%	106%	104%	88%	92%	121%	106%	106%	103%	90%	88%

Note.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 35
TREND OF MORTALITY UNDER REFUND MATURED DEFERRED ANNUITIES--FEMALE LIVES
OTHER THAN PENSION TRUST ISSUES
EXPERIENCE BETWEEN ANNIVERSARIES IN INDICATED YEARS
MORTALITY RATIOS ON ANNUITY TABLE FOR 1949 ULTIMATE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76	1945-50	1950-55	1955-60	1960-65	1965-70	1971-76
Durations 1-5												
Under 60....	194%	127%	123%	136%	126%	*	149%	128%	131%	176%	170%	*
60-69.....	117	116	97	84	83	74%	112	113	88	87	81	80%
70 and over..	107	93	73	73	70	52	113	125	80	72	79	53
All.....	118%	111%	93%	84%	79%	67%	114%	117%	87%	86%	82%	70%
Durations 6 and Over												
Under 60....	201%	110%	110%	111%	*	*	172%	199%	100%	130%	*	*
60-69.....	115	108	100	89	85%	85%	119	98	108	86	77%	85%
70 and over..	113	102	98	90	80	86	109	97	94	92	80	82
All.....	114%	103%	98%	90%	80%	86%	112%	98%	96%	91%	80%	83%
All Durations												
Under 60....	195%	124%	120%	128%	115%	*	153%	143%	123%	162%	140%	*
60-69.....	116	112	99	87	84	80%	114	107	97	86	79	83%
70 and over..	112	101	96	90	79	85	110	101	93	91	80	82
All.....	116%	105%	97%	90%	80%	85%	113%	104%	94%	91%	80%	82%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

other than pension trust issues, because (i) the mortality of pension trust issues is significantly different from that of other than pension trust issues, hence combining them would be inappropriate, and (ii) the pension trust experience is largely at amounts of annual income under \$2,500, making an analysis by income group of limited value.

For male lives, the overall Group 2 ratios are lower by number of contracts and higher by amounts of annual income than the Group 1 ratios. Also, the Group 2 ratios at annual incomes of \$2,500 and over are significantly higher than the Group 1 ratios, both by number of contracts and by amounts of annual income. For females, the experience is largely at annual incomes of under \$2,500, where, in each income group except "unknown," the Group 2 ratios are higher than the Group 1 ratios. For Group 2 the male and female overall ratios by contract are the same, but the male ratio by amount significantly exceeds the female ratio.

TABLE 36
REFUND MATURED DEFERRED ANNUITIES
OTHER THAN PENSION TRUST ISSUES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
DURATIONS 11 AND OVER
MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(1) ISSUES OF 1931-59
(2) ISSUES OF 1960-65

INCOME GROUPS	BASED ON NUMBER OF CONTRACTS				BASED ON AMOUNTS OF ANNUAL INCOME			
	Male Lives		Female Lives		Male Lives		Female Lives	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
Under \$1,000 . . .	126%	109%	109%	116%	125%	111%	106%	112%
\$1,000-\$1,499 . . .	120	120	86	110	120	122	85	112
\$1,500-\$2,499 . . .	98	149	108	116	98	151	110	117
\$2,500-\$4,999 . . .	109	159	93	*	104	156	93	*
\$5,000-\$7,499 . . .	61	*	*	*	62	*	*	*
\$7,500 and over	168	*	*	*	172	*	*	*
Unknown	118	109	113	110	95	113	108	117
\$2,500 and over	108	155	97	*	111	145	104	*
All	123%	116%	109%	116%	114%	129%	104%	115%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

Analysis by Size of Annuity

Table 37 analyzes mortality ratios by size of annuity, based on amounts of annual income. The format is the same as that of Tables 27 and 28 under life income settlements. The volume of data is too limited in most categories to permit the drawing of any firm conclusions. In general, the ratios at annual incomes of \$2,500 and over are greater than those at under \$2,500.

Comparison of Life Income Settlements, Matured Deferred Annuities, and Immediate Annuities

Table 38 compares the experience of (A) life income settlements arising from death claims (payee elections), (B) life income settlements arising from maturities and surrenders, (C) matured deferred annuities, and (D) immediate annuities. Experience under pension trust issues has been excluded from the table. Only annuities with a guaranteed period or refund provision have been included.

The aggregate ratios for females vary relatively little among the various types of annuities. Within the various duration groups, there is variation among the different types of annuities, but the relationships change with

TABLE 37
MATURED DEFERRED ANNUITIES
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
MORTALITY RATIOS BY AMOUNT OF ANNUAL INCOME
ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
(All Ages and Durations Combined)

	ANNUAL INCOME OF LESS THAN \$2,500		ANNUAL INCOME OF \$2,500 OR MORE	
	Males	Females	Males	Females
With a guaranteed period or refund provision:				
Other than pension trust.....	116% (4,932)	105% (10,311)	117% (285)	114% (54)
Pension trust.....	158 (4,453)	139 (455)	151 (62)	158 (3)
Without a guaranteed period or refund provision:				
Other than pension trust.....	111 (1,129)	109 (4,788)	136 (38)	141 (10)
Pension trust.....	162 (145)	124 (48)	29 (1)	0 (0)

NOTE.—Number of contracts terminated by death shown in parentheses.

TABLE 38—COMPARISON OF CONTRACTS WITH GUARANTEED PERIOD OR REFUND PROVISION
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES

- (A) PAYEE ELECTION LIFE INCOME SETTLEMENTS ARISING FROM DEATH CLAIMS
(B) LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS—OTHER THAN PENSION TRUST ISSUES
(C) MATURED DEFERRED ANNUITIES—OTHER THAN PENSION TRUST ISSUES
(D) INDIVIDUAL IMMEDIATE REFUND ANNUITIES—OTHER THAN PENSION TRUST ISSUES

MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS								BASED ON AMOUNTS OF ANNUAL INCOME							
	Male				Female				Male				Female			
	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)
<i>Durations 1-5</i>																
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	<i>160%</i>	*	<i>147%</i>	<i>181%</i>	<i>112%</i>	*	<i>143%</i>	*	<i>168%</i>	*	<i>130%</i>	<i>151%</i>	<i>82%</i>	*	<i>145%</i>
60-69.....	*	97	<i>109%</i>	98	123	94	<i>103%</i>	110	*	97	<i>110%</i>	95	144	88	<i>111%</i>	135
70-79.....	*	116	112	103	96	82	75	103	*	132	115	108	80	87	66	102
80-89.....	*	119	*	91	93	<i>67</i>	*	72	*	141	*	96	91	<i>73</i>	*	80
90 and over.....	*	<i>112</i>	*	<i>47</i>	*	*	*	90	*	<i>63</i>	*	<i>45</i>	*	*	*	95
All.....	<i>96%</i>	<i>104%</i>	<i>110%</i>	<i>97%</i>	<i>104%</i>	<i>90%</i>	<i>94%</i>	<i>90%</i>	<i>105%</i>	<i>113%</i>	<i>116%</i>	<i>98%</i>	<i>99%</i>	<i>85%</i>	<i>99%</i>	<i>95%</i>
<i>Durations 6-10</i>																
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	*	*	<i>234%</i>	<i>195%</i>	<i>216%</i>	*	<i>188%</i>	*	*	*	<i>336%</i>	<i>198%</i>	<i>135%</i>	*	<i>206%</i>
60-69.....	*	<i>114%</i>	<i>117%</i>	116	109	108	<i>115%</i>	121	*	<i>114%</i>	<i>119%</i>	129	103	110	<i>125%</i>	124
70-79.....	<i>135%</i>	126	117	109	105	105	110	108	<i>102%</i>	123	99	100	117	111	113	97
80-89.....	*	126	<i>125</i>	101	91	103	82	87	*	129	<i>172</i>	100	87	138	<i>84</i>	86
90 and over.....	*	<i>128</i>	*	97	83	82	*	90	*	<i>154</i>	*	92	<i>74</i>	<i>66</i>	*	106
All.....	<i>156%</i>	<i>124%</i>	<i>118%</i>	<i>106%</i>	<i>100%</i>	<i>106%</i>	<i>110%</i>	<i>96%</i>	<i>119%</i>	<i>123%</i>	<i>110%</i>	<i>102%</i>	<i>101%</i>	<i>115%</i>	<i>111%</i>	<i>94%</i>

Note.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 38—Continued

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS								BASED ON AMOUNTS OF ANNUAL INCOME							
	Male				Female				Male				Female			
	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)
Durations 1-10																
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	<i>104%</i>	<i>151%</i>	<i>111%</i>	<i>171%</i>	<i>188%</i>	<i>135%</i>	<i>157%</i>	<i>104%</i>	<i>165%</i>	<i>112%</i>	<i>168%</i>	<i>172%</i>	<i>94%</i>	<i>117%</i>	<i>162%</i>	
60-69.....	130	101	116	101	114	98	113	85	101	103	100	122	94	103	132	
70-79.....	*	124	128	96	91	92	82	80	*	134	178	88	111	100	83	
80-89.....	*	123	*	80	80	84	*	90	*	117	*	97	79	73	103	
90 and over.....																
All.....	<i>127%</i>	<i>115%</i>	<i>116%</i>	<i>101%</i>	<i>101%</i>	<i>99%</i>	<i>105%</i>	<i>93%</i>	<i>127%</i>	<i>118%</i>	<i>112%</i>	<i>99%</i>	<i>100%</i>	<i>100%</i>	<i>107%</i>	<i>95%</i>
Durations 11 and Over																
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
50-59.....	<i>201%</i>	*	*	<i>283%</i>	<i>165%</i>	<i>151%</i>	*	<i>248%</i>	<i>124%</i>	*	*	<i>277%</i>	<i>162%</i>	<i>151%</i>	*	<i>278%</i>
60-69.....	120	121%	122%	173	126	131	134%	150	80	126%	128%	227	129	138	109%	158
70-79.....	127	120	119	145	111	104	116	132	130	118	120	136	109	109	109	120
80-89.....	90	119	125	112	101	102	108	113	66	125	119	123	102	101	105	112
90 and over.....	104	89	111	100	101	104	106	109	93	98	103	106	102	102	101	104
All.....	<i>113%</i>	<i>116%</i>	<i>121%</i>	<i>117%</i>	<i>104%</i>	<i>104%</i>	<i>109%</i>	<i>113%</i>	<i>95%</i>	<i>120%</i>	<i>117%</i>	<i>126%</i>	<i>104%</i>	<i>104%</i>	<i>105%</i>	<i>111%</i>

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 38 *Continued*

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS								BASED ON AMOUNTS OF ANNUAL INCOME							
	Male				Female				Male				Female			
	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)	(A)	(B)	(C)	(D)
	Durations 6 and Over															
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	<i>197%</i>	<i>119%</i>	*	<i>267%</i>	<i>176%</i>	<i>173%</i>	*	<i>227%</i>	<i>230%</i>	<i>159%</i>	*	<i>308%</i>	<i>178%</i>	<i>145%</i>	*	<i>236%</i>
60-69.....	<i>129</i>	<i>116</i>	<i>119%</i>	<i>145</i>	<i>120</i>	<i>118</i>	<i>121%</i>	<i>135</i>	<i>90</i>	<i>117</i>	<i>123%</i>	<i>160</i>	<i>120</i>	<i>122</i>	<i>110</i>	<i>136</i>
70-79.....	<i>128</i>	<i>122</i>	<i>119</i>	<i>128</i>	<i>110</i>	<i>104</i>	<i>115</i>	<i>122</i>	<i>125</i>	<i>120</i>	<i>112</i>	<i>112</i>	<i>110</i>	<i>110</i>	<i>110</i>	<i>107</i>
80-89.....	<i>94</i>	<i>119</i>	<i>125</i>	<i>109</i>	<i>100</i>	<i>102</i>	<i>108</i>	<i>108</i>	<i>71</i>	<i>126</i>	<i>121</i>	<i>111</i>	<i>101</i>	<i>103</i>	<i>105</i>	<i>101</i>
90 and over.....	<i>104</i>	<i>90</i>	<i>111</i>	<i>100</i>	<i>101</i>	<i>103</i>	<i>106</i>	<i>108</i>	<i>93</i>	<i>101</i>	<i>103</i>	<i>102</i>	<i>101</i>	<i>102</i>	<i>101</i>	<i>104</i>
All.....	<i>118%</i>	<i>118%</i>	<i>121%</i>	<i>114%</i>	<i>104%</i>	<i>104%</i>	<i>109%</i>	<i>111%</i>	<i>103%</i>	<i>121%</i>	<i>116%</i>	<i>113%</i>	<i>104%</i>	<i>106%</i>	<i>106%</i>	<i>104%</i>
	All Durations															
Under 50.....	*	*	*	<i>215%</i>	*	*	*	*	*	*	*	<i>316%</i>	*	*	*	*
50-59.....	<i>173%</i>	<i>148%</i>	*	<i>213</i>	<i>178%</i>	<i>140%</i>	*	<i>190%</i>	<i>199%</i>	<i>166%</i>	*	<i>183</i>	<i>169%</i>	<i>109%</i>	*	<i>180%</i>
60-69.....	<i>114</i>	<i>103</i>	<i>113%</i>	<i>112</i>	<i>121</i>	<i>105</i>	<i>113%</i>	<i>121</i>	<i>90</i>	<i>103</i>	<i>114%</i>	<i>108</i>	<i>125</i>	<i>101</i>	<i>116%</i>	<i>135</i>
70-79.....	<i>127</i>	<i>122</i>	<i>118</i>	<i>120</i>	<i>109</i>	<i>103</i>	<i>114</i>	<i>117</i>	<i>117</i>	<i>122</i>	<i>112</i>	<i>110</i>	<i>107</i>	<i>107</i>	<i>107</i>	<i>105</i>
80-89.....	<i>96</i>	<i>119</i>	<i>125</i>	<i>105</i>	<i>100</i>	<i>102</i>	<i>108</i>	<i>104</i>	<i>82</i>	<i>127</i>	<i>122</i>	<i>105</i>	<i>100</i>	<i>102</i>	<i>105</i>	<i>95</i>
90 and over.....	<i>104</i>	<i>90</i>	<i>111</i>	<i>97</i>	<i>101</i>	<i>103</i>	<i>106</i>	<i>108</i>	<i>93</i>	<i>100</i>	<i>103</i>	<i>92</i>	<i>101</i>	<i>102</i>	<i>101</i>	<i>103</i>
All.....	<i>116%</i>	<i>116%</i>	<i>120%</i>	<i>109%</i>	<i>104%</i>	<i>103%</i>	<i>109%</i>	<i>108%</i>	<i>103%</i>	<i>119%</i>	<i>116%</i>	<i>106%</i>	<i>104%</i>	<i>103%</i>	<i>106%</i>	<i>102%</i>

NOTE. —Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 39

COMPARISON OF CONTRACTS WITH GUARANTEED PERIOD OR REFUND PROVISION
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES

(A) LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS—PENSION TRUST ISSUES

(B) MATURED DEFERRED ANNUITIES—PENSION TRUST ISSUES

(C) INDIVIDUAL IMMEDIATE REFUND ANNUITIES—PENSION TRUST ISSUES

MORTALITY RATIOS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	Male			Female			Male			Female		
	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)
	Durations 1-5											
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	115%	150%	132%	90%	152%	128%	114%	150%	116%	112%	153%	125%
70-79.....	123	210	126	102	*	138	117	231	142	86	*	209
80-89.....	*	*	*	*	*	*	*	*	*	*	*	*
90 and over..	*	*	*	*	*	*	*	*	*	*	*	*
All.....	118%	158%	125%	91%	172%	153%	112%	164%	145%	99%	201%	182%
	Durations 6-10											
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	167%	240%	*	123%	300%	*	158%	117%	*	115%	135%	*
70-79.....	143	179	121%	95	165	71%	148	188	165%	105	189	63%
80-89.....	84	161	*	*	*	*	101	161	*	*	*	*
90 and over..	*	*	*	*	*	*	*	*	*	*	*	*
All.....	142%	182%	120%	97%	169%	86%	144%	181%	138%	103%	172%	73%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 39 *Continued*

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	Male			Female			Male			Female		
	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)
Durations 1-10												
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	253%	*	*	*	*	*	225%	*	*	*	*	*
60-69.....	122	167%	129%	97%	186%	119%	118	146%	113%	112%	150%	107%
70-79.....	140	181	123	96	152	94	140	193	152	100	157	125
80-89.....	82	144	*	*	*	219	86	135	*	*	*	172
90 and over..	*	*	*	*	*	*	*	*	*	*	*	*
All.....	132%	175%	123%	94%	170%	123%	130%	175%	143%	101%	184%	136%
Durations 11 and Over												
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	257%	141%	*	432%	*	*	358%	93%	*	265%	*	*
70-79.....	154	169	120%	110	144%	120%	146	172	79%	109	142%	67%
80-89.....	142	148	142	103	104	*	127	138	160	91	106	*
90 and over..	90	118	*	*	108	*	95	127	*	*	89	*
All.....	142%	156%	125%	112%	123%	133%	135%	151%	108%	103%	119%	163%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

TABLE 39—Continued

ATTAINED AGES	BASED ON NUMBER OF CONTRACTS						BASED ON AMOUNTS OF ANNUAL INCOME					
	Male			Female			Male			Female		
	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)	(A)	(B)	(C)
Durations 6 and Over												
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	*	*	*	*	*	*	*	*	*	*	*	*
60-69.....	189%	190%	*	186%	301%	*	177%	112%	*	135%	132%	*
70-79.....	150	171	121%	104	149	89%	147	177	142%	107	160	64%
80-89.....	140	148	132	101	103	136	124	139	120	88	103	177
90 and over..	88	117	*	*	107	*	94	129	*	*	88	*
All.....	146%	159%	122%	107%	129%	105%	138%	156%	129%	103%	130%	97%
All Durations												
Under 50.....	*	*	*	*	*	*	*	*	*	*	*	*
50-59.....	215%	*	*	*	*	*	215%	*	*	*	*	*
60-69.....	128	163%	128%	113%	199%	124%	121	144%	113%	116%	149%	114%
70-79.....	149	171	122	104	146	101	143	179	142	104	149	114
80-89.....	140	148	120	101	105	174	122	138	223	84	124	234
90 and over..	88	117	*	*	107	*	94	129	*	*	88	*
All.....	143%	159%	123%	105%	132%	125%	132%	157%	139%	102%	139%	140%

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

* Fewer than 10 contracts terminated by death.

change in duration group and tend to offset each other. For males the aggregate immediate annuity ratios at the earlier durations (durations 1–10) are significantly lower than those for life income settlements and matured deferred annuities, both by number and amount. (Payee election data for males are somewhat limited.) The lowest female ratios in the early durations also occur under immediate annuities. In the ultimate period (durations 11 and over), the lowest ratios occur under payee election life income settlements.

Table 39 compares the mortality ratios of pension trust issues under (A) life income settlements arising from maturities and surrenders, (B) matured deferred annuities, and (C) immediate annuities, all with a guaranteed period or refund provision. The following comments pertain to both males and females. In general, the highest ratios occur under matured deferred annuities. At durations 1–5 the lowest ratio occurs under life income settlements, and at durations 6–10 it occurs under immediate annuities. At durations 11 and over, immediate annuities exhibit the lowest ratios for male lives, while life income settlements are lowest for females.

Analysis by Tax-qualified Status

The current study includes a more refined analysis of the category “other than pension trust issues” than has been included in previous studies. The Committee’s instructions called for this category to be broken down into *four* components in the case of immediate and matured deferred annuities and *five* components in the case of life income settlements. These categories are as follows: (i) nonqualified annuities, (ii) H.R. 10 annuities, (iii) tax-sheltered annuities, (iv) individual retirement annuities, and, under life income settlements, (v) vested-registered contracts. There was insufficient experience in categories ii–iv under immediate annuities for this type of analysis. For life income settlements and matured deferred annuities, the extent of the data permits an analysis of refund issues only, with durations grouped and all ages combined.

Accordingly, Table 40 presents mortality ratios under life income settlements and matured deferred annuities for the following categories: pension trust issues, nonqualified annuities, and qualified non-pension trust annuities. Under matured deferred annuities, qualified non-pension trust includes categories ii–iv listed above, and under life income settlements, categories ii–v.

Nonqualified annuities represent the greater part of other than pension trust issues. Thus, a direct comparison of pension trust issues with non-qualified annuities essentially would duplicate the comparisons of pen-

sion trust issues with other than pension trust issues of Tables 19-20 and 29-30. Also, the vast majority of deaths and exposures under qualified non-pension trust issues occur at durations 1-10. Therefore, all ratios in Table 40 are based solely on the experience of durations 1-10. The table shows that the level of mortality among male and female lives under qualified non-pension trust issues is substantially lower than that under the other types of annuities.

TABLE 40
 COMPARISON OF TAX-QUALIFIED AND NONQUALIFIED ANNUITIES
 CONTRACT YEARS 1-10
 EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
 (A) REFUND LIFE INCOME SETTLEMENTS ARISING FROM
 MATURITIES AND SURRENDERS
 (B) REFUND MATURED DEFERRED ANNUITIES

	PENSION TRUST ISSUES		NONQUALIFIED ANNUITIES		QUALIFIED NON-PENSION TRUST	
	Contracts	Amounts	Contracts	Amounts	Contracts	Amounts
(A) Male lives.....	<i>132%</i>	<i>130%</i>	<i>116%</i>	<i>119%</i>	<i>91%</i>	<i>84%</i>
Female lives.....	94	101	102	104	59	60
(B) Male lives.....	175	175	118	112	79	92
Female lives.....	170	184	107	108	78	95

NOTE.—Mortality ratio in italics where 10-49 contracts terminated by death.

APPENDIX

TABLE A

CONTRIBUTING COMPANIES
 PROPORTION OF TOTAL EXPOSURES CONTRIBUTED BY EACH
 BY AMOUNT OF ANNUAL INCOME

COMPANY	NONREFUND		REFUND	
	Male	Female	Male	Female
Immediate Annuities				
Equitable, N.Y.	24.2%	24.0%	19.0%	26.5%
Manufacturers	16.1	12.5	19.6	12.0
Metropolitan	14.5	14.8	13.7	16.7
Prudential	12.4	11.7	14.8	11.9
New York Life	12.0	14.1	15.1	15.5
Phoenix Mutual	3.7	3.9	1.4	1.5
Mutual Life, N.Y.	3.5	2.7	3.1	2.5
Massachusetts Mutual	2.8	3.8	3.8	4.4
Connecticut Mutual	2.6	2.8	0.9	0.8
John Hancock	2.3	2.7	1.8	2.4
Sun Life	1.9	1.8	3.3	1.8
Provident Mutual	1.3	1.4	1.0	0.9
New England Mutual	1.1	1.6	1.4	1.2
Northwestern Mutual	1.0	1.5	0.9	1.4
Mutual Benefit	0.6	0.7	0.2	0.5
Total	100.0%	100.0%	100.0%	100.0%
Life Income Settlements				
New York Life	35.5%	55.2%	3.2%	5.5%
Connecticut Mutual	15.3	10.2	2.6	1.4
Equitable, N.Y.	9.9	6.2	11.4	15.3
New England Mutual	8.8	4.7	16.3	8.5
Massachusetts Mutual	8.3	8.3	8.6	7.9
Sun Life	7.2	4.9	4.0	3.6
Metropolitan	4.5	1.9	11.4	11.6
John Hancock	3.9	2.4	6.0	3.5
Northwestern Mutual	2.6	2.1	19.2	15.4
Prudential	2.4	2.6	4.8	10.6
Mutual Life, N.Y.	1.3	1.0	3.4	7.3
Provident Mutual	0.3	0.4	3.4	3.1
Mutual Benefit	0.0	0.1	5.7	6.3
Total	100.0%	100.0%	100.0%	100.0%

TABLE A—Continued

COMPANY	NONREFUND		REFUND	
	Male	Females	Male	Female
Matured Deferred Annuities				
Equitable, N.Y.	52.7%	66.9%	35.2%	45.9%
New York Life	18.4	14.8	8.6	8.2
Prudential	10.9	4.5	7.1	6.1
John Hancock	8.3	6.1	21.9	10.2
New England Mutual	7.8	5.1	8.0	8.4
Mutual Life, N.Y.	0.8	0.6	5.5	5.6
Massachusetts Mutual	0.5	1.7	0.4	6.6
Northwestern Mutual	0.5	0.2	7.9	2.2
Metropolitan	0.1	*	1.6	1.9
Provident Mutual	*	0.1	1.7	4.2
Mutual Benefit	*	*	2.1	0.7
Connecticut Mutual	*	*	*	*
Total	100.0%	100.0%	100.0%	100.0%

* Less than 0.05%.

TABLE B
EXPOSURES AND DEATHS UNDER INDIVIDUAL IMMEDIATE ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES

CONTRACT YEARS	NONREFUND ANNUITIES		REFUND ANNUITIES	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Exposures				
Males:				
1-5	13,333	\$20,962,549	66,303	\$ 98,143,779
6 and over	32,753	31,188,558	86,163	70,256,968
All	46,086	\$52,151,107	152,466	\$168,400,747
Females:				
1-5	22,521	\$31,957,886	86,921	\$102,074,584
6 and over	75,134	56,097,016	229,228	136,322,634
All	97,655	\$88,054,902	316,149	\$238,397,218
Deaths				
Males:				
1-5	552	\$ 884,406	2,117	\$ 3,314,766
6 and over	2,571	2,454,553	6,191	4,564,693
All	3,123	\$ 3,338,959	8,308	\$ 7,879,459
Females:				
1-5	527	\$ 751,803	2,022	\$ 2,822,348
6 and over	5,527	3,533,199	15,993	7,272,550
All	6,054	\$ 4,285,002	18,015	\$ 10,094,898

TABLE C

DISTRIBUTION OF COMPANIES' AGGREGATE MORTALITY RATIOS
BY NUMBER OF CONTRACTS

LINE A: NUMBER OF COMPANIES

LINE B: PROPORTION OF CONTRACTS TERMINATED BY DEATH

	ALL COMPANIES MORTALITY RATIO*	PERCENTAGE POINTS BELOW ALL COMPANIES RATIO				PERCENTAGE POINTS ABOVE ALL COMPANIES RATIO			
		Over 20	11-20	6-10	0-5	0-5	6-10	11-20	Over 20
REFUND IMMEDIATE ANNUITIES									
Male Lives									
Other than pension trust issues	109% A	1	3	2	1	2	1	1	1
	(5,474) B	0.4%	8.8%	20.6%	10.2%	10.9%	42.8%	5.6%	0.7%
Pension trust issues	123% A	3	2	2	0	0	0	1	3
	(222) B	0.5%	33.3%	8.1%	0%	0%	0%	33.3%	24.8%
Female Lives									
Other than pension trust issues	108% A	1	2	3	1	2	1	2	0
	(15,143) B	0.3%	3.4%	19.2%	8.0%	57.6%	0.8%	10.7%	0%
Pension trust issues	125% A	3	1	2	1	0	0	2	2
	(79) B	1.3%	1.3%	37.8%	30.4%	0%	0%	20.3%	8.9%
NONREFUND IMMEDIATE ANNUITIES									
Male Lives									
Other than pension trust issues	106% A	2	1	2	1	1	1	2	2
	(2,073) B	21.9%	2.5%	8.4%	16.8%	5.4%	1.2%	31.3%	12.5%
Pension trust issues	166% A	3	0	1	0	0	0	2	3
	(61) B	19.7%	0%	23.0%	0%	0%	0%	14.8%	42.5%
Female Lives									
Other than pension trust issues	103% A	1	1	2	3	2	0	2	1
	(4,385) B	0.5%	6.0%	30.8%	28.2%	16.1%	0%	11.5%	6.9%
Pension trust issues	135% A	4	2	1	0	0	0	1	3
	(41) B	24.4%	12.2%	4.9%	0%	0%	0%	39.0%	19.5%
REFUND LIFE INCOME SETTLEMENTS ARISING FROM DEATH CLAIMS									
Male Lives									
Payee elections	121% A	2	2	2	0	1	0	2	4
	(241) B	0%	37.3%	17.4%	0%	2.1%	0%	8.3%	34.9%
Nonpayee elections	138% A	2	0	1	1	1	3	3	2
	(307) B	15.6%	0%	17.9%	2.6%	7.8%	16.9%	27.8%	11.4%
Female Lives									
Payee elections	104% A	1	2	2	2	1	2	1	2
	(7,443) B	3.0%	16.5%	2.8%	36.5%	0.5%	20.9%	12.5%	7.3%
Nonpayee elections	111% A	2	1	0	4	4	0	1	1
	(7,816) B	7.2%	0.4%	0%	33.6%	47.5%	0%	1.5%	9.8%
NONREFUND LIFE INCOME SETTLEMENTS ARISING FROM DEATH CLAIMS									
Male Lives									
Payee elections	108% A	4	1	0	0	1	0	1	3
	(48) B	0%	2.1%	0%	0%	18.8%	0%	68.7%	10.4%
Nonpayee elections	89% A	8	0	0	0	0	0	0	4
	(27) B	44.4%	0%	0%	0%	0%	0%	0%	55.6%
Female Lives									
Payee elections	97% A	0	2	0	1	2	1	0	6
	(548) B	0%	63.2%	0%	5.8%	3.8%	0.4%	0%	26.8%
Nonpayee elections	82% A	3	2	1	1	0	0	0	5
	(503) B	1.6%	5.6%	73.1%	0.4%	0%	0%	0%	19.3%

* Mortality ratios on the 1971 IAM Table. Number of contracts terminated by death shown in parentheses.

TABLE C—Continued

	ALL COMPANIES MORTALITY RATIO*	PERCENTAGE POINTS BELOW ALL COMPANIES RATIO				PERCENTAGE POINTS ABOVE ALL COMPANIES RATIO			
		Over 20	11-20	6-10	0-5	0-5	6-10	11-20	Over 20
		REFUND LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS							
Male Lives									
Other than pension trust issues	116% A (10,072) B	1 1.1%	1 6.4%	2 29.3%	0 0%	4 41.1%	1 5.8%	1 7.5%	2 8.8%
Pension trust issues	143% A (4,621) B	3 0.5%	2 1.4%	1 13.9%	1 6.5%	2 77.5%	0 0%	0 0%	1 0.2%
Female Lives									
Other than pension trust issues	103% A (7,688) B	1 0%	2 15.6%	1 5.1%	2 9.6%	2 15.8%	4 53.9%	0 0%	0 0%
Pension trust issues	105% A (544) B	2 6.4%	1 0.2%	1 3.1%	0 0%	2 34.4%	1 54.6%	0 0%	2 1.3%
NONREFUND LIFE INCOME SETTLEMENTS ARISING FROM MATURITIES AND SURRENDERS									
Male Lives									
Other than pension trust issues	108% A (1,202) B	3 1.4%	1 44.0%	0 0%	1 11.0%	1 9.1%	0 0%	2 5.3%	3 29.2%
Pension trust issues	177% A (187) B	5 18.2%	0 0%	0 0%	0 0%	0 0%	0 0%	0 0%	3 81.8%
Female Lives									
Other than pension trust issues	106% A (1,298) B	2 0.8%	4 44.3%	2 9.6%	1 21.6%	0 0%	0 0%	1 0.7%	2 23.0%
Pension trust issues	131% A (53) B	5 22.6%	0 0%	1 9.4%	0 0%	0 0%	1 30.2%	0 0%	3 37.8%
REFUND MATURED DEFERRED ANNUITIES									
Male Lives									
Other than pension trust issues	120% A (5,690) B	1 0.6%	1 6.5%	1 0.6%	2 18.7%	2 61.0%	1 12.1%	0 0%	3 0.5%
Pension trust issues	159% A (4,517) B	4 0.1%	1 7.2%	0 0%	1 28.2%	1 64.5%	0 0%	0 0%	1 0%
Female Lives									
Other than pension trust issues	109% A (11,018) B	3 0.3%	1 6.1%	2 6.3%	1 3.3%	3 76.5%	0 0%	1 7.5%	0 0%
Pension trust issues	132% A (458) B	3 0%	0 0%	0 0%	2 31.4%	1 56.3%	1 11.6%	0 0%	1 0.7%
NONREFUND MATURED DEFERRED ANNUITIES									
Male Lives									
Other than pension trust issues	115% A (1,177) B	4 5.7%	1 0.8%	0 0%	1 62.1%	1 4.1%	0 0%	2 27.3%	0 0%
Pension trust issues	185% A (146) B	2 4.8%	0 0%	0 0%	0 0%	1 89.7%	0 0%	0 0%	1 5.5%
Female Lives									
Other than pension trust issues	109% A (4,842) B	3 0%	0 0%	0 0%	3 22.4%	2 75.7%	0 0%	1 0.9%	1 0%
Pension trust issues	128% A (48) B	1 0%	0 0%	1 87.5%	0 0%	0 0%	0 0%	0 0%	3 12.5%

* Mortality ratios on the 1971 IAM Table. Number of contracts terminated by death shown in parentheses.

TABLE D
INDIVIDUAL IMMEDIATE ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
EXPECTED DEATHS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
REFUND PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	8	\$ 10,460	0	\$ 0	0.02	\$ 25	0	0
50-59.....	53	123,996	0	0	0.51	1,235	0	0
60-69.....	682	1,926,095	14	22,654	11.77	33,306	1.19	0.68
70-79.....	169	563,880	10	34,769	5.61	20,665	1.78	1.68
80-89.....	7	30,583	0	0	0.67	3,981	0	0
90 and over.....	1	103	0	0	0.21	21	0	0
All.....	920	\$ 2,655,117	24	\$ 57,423	18.79	\$ 59,233	1.28	0.97
Year 2:								
Under 50.....	7	\$ 10,415	0	\$ 0	0.02	\$ 29	0	0
50-59.....	38	93,456	0	0	0.36	939	0	0
60-69.....	644	1,865,515	19	59,341	11.76	33,869	1.62	1.73
70-79.....	171	541,828	6	36,156	5.90	20,307	1.02	1.78
80-89.....	11	40,654	2	27,529	0.99	5,065	2.03	5.44
90 and over.....	1	103	0	0	0.23	24	0	0
All.....	872	\$ 2,551,971	27	\$123,026	19.26	\$ 60,233	1.40	2.04
Year 3:								
Under 50.....	2	\$ 3,641	0	\$ 0	0.01	\$ 14	0	0
50-59.....	21	39,210	0	0	0.20	390	0	0
60-69.....	580	1,690,524	13	42,874	11.27	32,613	1.15	1.31
70-79.....	168	453,820	6	13,412	5.75	16,073	1.04	0.83
80-89.....	12	72,806	0	0	0.93	4,812	0	0
90 and over.....	1	103	0	0	0.26	26	0	0
All.....	784	\$ 2,260,104	19	\$ 56,286	18.42	\$ 53,928	1.03	1.04
Year 4:								
Under 50.....	2	\$ 9,740	0	\$ 0	0.01	\$ 44	0	0
50-59.....	12	13,641	1	701	0.11	137	9.33	5.12
60-69.....	478	1,380,287	15	23,233	9.80	27,888	1.53	0.83
70-79.....	180	447,155	9	32,019	6.21	15,722	1.45	2.04
80-89.....	13	75,824	1	51,938	1.12	5,472	0.90	9.49
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	685	\$ 1,926,647	26	\$107,891	17.25	\$ 49,263	1.51	2.19
Year 5:								
Under 50.....	4	\$ 3,991	0	\$ 0	0.01	\$ 16	0	0
50-59.....	10	14,688	0	0	0.09	118	0	0
60-69.....	289	830,247	6	19,624	6.13	17,115	0.98	1.15
70-79.....	196	430,269	7	8,109	6.63	14,579	1.06	0.56
80-89.....	10	32,739	0	0	0.78	2,548	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	509	\$ 1,311,934	13	\$ 27,733	13.64	\$ 34,376	0.95	0.81
Year 6:								
Under 50.....	3	\$ 1,051	0	\$ 0	0.01	\$ 3	0	0
50-59.....	8	10,845	1	768	0.07	77	14.84	9.97
60-69.....	105	281,876	3	7,092	2.06	5,565	1.46	1.27
70-79.....	251	460,662	9	24,714	8.20	15,262	1.10	1.62
80-89.....	11	16,686	0	0	0.93	1,697	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	378	\$ 771,120	13	\$ 32,574	11.27	\$ 22,604	1.15	1.44

TABLE D—Continued
 REFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	6	\$ 2,905	0	\$ 0	0.02	\$ 12	0	0
50-59.....	7	10,077	0	0	0.06	78	0	0
60-69.....	89	245,310	2	1,783	1.79	4,985	1.12	0.36
70-79.....	248	391,805	5	3,971	8.63	13,958	0.58	0.28
80-89.....	18	31,728	2	3,902	1.41	2,755	1.42	1.42
90 and over	0	0	0	0	0.00	0	0	0
All.....	368	\$ 681,825	9	\$ 9,656	11.91	\$ 21,788	0.76	0.44
Year 8:								
Under 50...	5	\$ 1,345	0	\$ 0	0.02	\$ 6	0	0
50-59.....	12	17,264	0	0	0.10	151	0	0
60-69.....	78	207,585	2	4,674	1.54	4,095	1.30	1.14
70-79.....	243	425,407	12	19,778	8.79	15,457	1.36	1.28
80-89.....	14	33,468	1	969	1.07	2,933	0.94	0.33
90 and over	1	883	1	883	0.17	148	5.95	5.97
All.....	353	\$ 685,952	16	\$ 26,304	11.69	\$ 22,790	1.37	1.15
Year 9:								
Under 50...	5	\$ 1,345	0	\$ 0	0.02	\$ 6	0	0
50-59.....	8	3,430	0	0	0.07	28	0	0
60-69.....	58	160,467	1	6,000	1.09	3,016	0.91	1.99
70-79.....	215	378,585	12	54,618	7.92	13,880	1.52	3.94
80-89.....	15	36,705	2	3,174	1.04	2,667	1.92	1.19
90 and over	1	7,108	0	0	0.17	1,194	0	0
All.....	302	\$ 587,640	15	\$ 63,792	10.31	\$ 20,791	1.45	3.07
Year 10:								
Under 50...	1	\$ 153	0	\$ 0	0.00	\$ 1	0	0
50-59.....	8	3,269	0	0	0.07	28	0	0
60-69.....	51	134,713	0	0	1.01	2,696	0	0
70-79.....	177	259,184	11	10,618	6.90	10,357	1.59	1.03
80-89.....	18	40,455	1	572	1.23	2,786	0.81	0.21
90 and over	0	0	0	0	0.00	0	0	0
All.....	255	\$ 437,774	12	\$ 11,190	9.21	\$ 15,868	1.30	0.71
Years 1-2:								
Under 50...	15	\$ 20,875	0	\$ 0	0.04	\$ 54	0	0
50-59.....	91	217,452	0	0	0.87	2,174	0	0
60-69.....	1,326	3,791,610	33	81,995	23.53	67,175	1.40	1.22
70-79.....	340	1,105,708	16	70,925	11.51	40,972	1.39	1.73
80-89.....	18	71,237	2	27,529	1.66	9,046	1.20	3.04
90 and over	2	206	0	0	0.44	45	0	0
All.....	1,792	\$ 5,207,088	51	\$180,449	38.05	\$119,466	1.34	1.51
Years 3-5:								
Under 50...	8	\$ 17,372	0	\$ 0	0.03	\$ 74	0	0
50-59.....	43	67,539	1	701	0.40	645	2.50	1.09
60-69.....	1,347	3,901,058	34	85,731	27.20	77,616	1.25	1.10
70-79.....	544	1,331,244	22	53,540	18.59	46,374	1.18	1.15
80-89.....	35	181,369	1	51,938	2.83	12,832	0.35	4.05
90 and over	1	103	0	0	0.26	26	0	0
All.....	1,978	\$ 5,498,685	58	\$191,910	49.31	\$137,567	1.18	1.40

TABLE D—Continued
 REFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	23	\$ 38,247	0	\$ 0	0 07	\$ 128	0	0
50-59.....	134	284,991	1	701	1 27	2,819	0 79	0 25
60-69.....	2,673	7,692,668	67	167,726	50 73	144,791	1 32	1 16
70-79.....	884	2,436,952	38	124,465	30 10	87,346	1 26	1 42
80-89.....	53	252,606	3	79,467	4 49	21,878	0 67	3 63
90 and over.....	3	309	0	0	0 70	71	0	0
All.....	3,770	\$10,705,773	109	\$372,359	87 36	\$257,033	1 25	1 45
Years 6-10:								
Under 50.....	20	\$ 6,799	0	\$ 0	0 07	\$ 28	0	0
50-59.....	43	44,885	1	768	0 37	362	2 70	2 12
60-69.....	381	1,029,951	8	19,549	7 49	20,357	1 07	0 96
70-79.....	1,134	1,915,643	49	113,699	40 44	68,914	1 21	1 65
80-89.....	76	159,042	6	8,617	5 68	12,838	1 06	0 67
90 and over.....	2	7,991	1	883	0 34	1,342	2 94	0 66
All.....	1,656	\$ 3,164,311	65	\$143,516	54 39	\$103,841	1 20	1 38
Years 11-15:								
Under 50.....	43	\$ 45,046	0	\$ 0	0 14	\$ 156	0	0
50-59.....	177	329,876	2	1,469	1 64	3,181	1 22	0 46
60-69.....	3,054	8,722,619	75	187,275	58 22	165,148	1 29	1 13
70-79.....	2,018	4,352,595	87	238,164	70 54	156,260	1 23	1 52
80-89.....	129	411,648	9	88,084	10 17	34,716	0 88	2 54
90 and over.....	5	8,300	1	883	1 04	1,413	0 96	0 62
All.....	5,426	\$13,870,084	174	\$515,875	141 75	\$360,874	1 23	1 43
Years 16 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59.....	13	4,413	0	0	0 11	37	0	0
60-69.....	55	128,228	1	2,000	1 13	2,668	0 89	0 75
70-79.....	481	579,530	26	20,230	21 75	25,514	1 20	0 79
80-89.....	181	218,365	20	27,305	14 06	17,034	1 42	1 60
90 and over.....	6	4,087	1	200	1 46	777	0 68	0 26
All.....	736	\$ 934,623	48	\$ 49,735	38 51	\$ 46,030	1 25	1 08
Years 6 and over:								
Under 50.....	20	\$ 6,799	0	\$ 0	0 07	\$ 28	0	0
50-59.....	56	49,298	1	768	0 48	399	2 08	1 92
60-69.....	436	1,158,179	9	21,549	8 62	23,025	1 04	0 94
70-79.....	1,615	2,495,173	75	133,929	62 19	94,428	1 21	1 42
80-89.....	257	377,407	26	35,922	19 74	29,872	1 32	1 20
90 and over.....	8	12,078	2	1,083	1 80	2,119	1 11	0 51
All.....	2,392	\$ 4,098,934	113	\$193,251	92 90	\$149,871	1 22	1 29
All years:								
Under 50.....	43	\$ 45,046	0	\$ 0	0 14	\$ 156	0	0
50-59.....	190	334,289	2	1,469	1 75	3,218	1 14	0 46
60-69.....	3,109	8,850,847	76	189,275	59 35	167,816	1 28	1 13
70-79.....	2,499	4,932,125	113	258,394	92 29	181,774	1 22	1 42
80-89.....	310	630,013	29	115,389	24 23	51,750	1 20	2 23
90 and over.....	11	12,387	2	1,083	2 50	2,190	0 80	0 49
All.....	6,162	\$14,804,707	222	\$565,610	180 26	\$406,904	1 23	1 39

TABLE D—Continued
REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50..	138	\$ 302,646	0	\$ 0	0.32	\$ 574	0	0
50-59.....	588	1,058,911	4	5,276	5.51	10,060	0.73	0.52
60-69.....	6,034	8,004,917	87	100,851	104.99	140,244	0.83	0.72
70-79.....	2,492	4,006,670	79	138,956	93.83	152,089	0.84	0.91
80-89.....	914	1,592,656	50	126,454	80.60	143,455	0.62	0.88
90 and over	51	84,153	3	4,274	11.10	18,331	0.27	0.23
All.....	10,217	\$15,049,953	223	\$ 375,811	296.35	\$ 464,753	0.75	0.81
Year 2:								
Under 50..	116	\$ 261,763	0	\$ 0	0.28	\$ 530	0	0
50-59.....	441	747,510	10	18,808	4.17	7,075	2.40	2.66
60-69.....	5,176	6,532,519	101	140,383	94.60	119,665	1.07	1.17
70-79.....	2,428	3,708,350	106	202,438	92.60	142,236	1.14	1.42
80-89.....	960	1,591,111	93	142,416	86.24	144,656	1.08	0.98
90 and over	39	60,479	0	0	8.53	13,140	0	0
All.....	9,160	\$12,901,732	310	\$ 504,045	286.42	\$ 427,302	1.08	1.18
Year 3:								
Under 50..	103	\$ 243,988	0	\$ 0	0.26	\$ 542	0	0
50-59.....	316	561,888	7	8,642	2.99	5,436	2.34	1.59
60-69.....	4,265	5,224,617	82	73,542	81.70	99,975	1.00	0.74
70-79.....	2,427	3,486,977	97	117,465	93.63	135,562	1.04	0.87
80-89.....	991	1,645,704	67	97,728	90.64	149,811	0.74	0.65
90 and over	40	89,060	3	2,221	8.41	17,251	0.36	0.13
All.....	8,142	\$11,252,234	256	\$ 299,598	277.63	\$ 408,577	0.92	0.73
Year 4:								
Under 50..	84	\$ 171,128	4	\$ 4,539	0.20	\$ 415	19.85	10.94
50-59.....	226	309,941	2	2,065	2.07	2,910	0.97	0.71
60-69.....	3,263	3,818,182	63	97,217	65.45	75,830	0.96	1.28
70-79.....	2,332	3,223,871	92	151,623	89.98	126,175	1.02	1.20
80-89.....	983	1,613,512	102	160,941	91.15	151,616	1.12	1.06
90 and over	60	123,947	7	10,902	12.05	24,291	0.58	0.45
All.....	6,948	\$ 9,260,581	270	\$ 427,287	260.90	\$ 381,237	1.03	1.12
Year 5:								
Under 50..	78	\$ 113,412	0	\$ 0	0.21	\$ 288	0	0
50-59.....	176	222,267	1	1,200	1.60	2,111	0.62	0.57
60-69.....	2,208	2,379,732	53	47,410	45.53	48,760	1.16	0.97
70-79.....	2,295	2,875,759	99	113,440	87.49	112,999	1.13	1.00
80-89.....	945	1,549,356	86	177,842	89.07	147,250	0.97	1.21
90 and over	52	89,536	11	23,496	11.11	18,797	0.99	1.25
All.....	5,754	\$ 7,230,062	250	\$ 363,388	235.01	\$ 330,205	1.06	1.10
Year 6:								
Under 50..	57	\$ 73,132	0	\$ 0	0.15	\$ 188	0	0
50-59.....	147	157,313	3	8,054	1.29	1,378	2.33	5.84
60-69.....	1,090	1,070,506	26	24,584	21.22	20,770	1.23	1.18
70-79.....	2,510	2,838,252	100	109,523	89.63	103,646	1.12	1.06
80-89.....	861	1,268,154	68	102,186	78.83	117,586	0.86	0.87
90 and over	108	161,858	25	37,998	20.34	30,809	1.23	1.23
All.....	4,773	\$ 5,569,215	222	\$ 282,345	211.46	\$ 274,377	1.05	1.03

TABLE D—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	65	\$ 65,942	0	\$ 0	0.15	\$ 159	0	0
50-59.....	163	163,759	3	3,852	1.42	1,429	2.12	2.70
60-69.....	916	932,453	20	24,445	17.99	18,371	1.11	1.33
70-79.....	2,541	2,770,271	104	101,524	93.53	104,855	1.11	0.97
80-89.....	917	1,275,819	79	111,470	84.89	118,889	0.93	0.94
90 and over	105	154,738	22	25,282	20.43	30,949	1.08	0.82
All.....	4,707	\$ 5,362,982	228	\$ 266,573	218.41	\$ 274,652	1.04	0.97
Year 8:								
Under 50...	70	\$ 61,868	0	\$ 0	0.16	\$ 116	0	0
50-59.....	147	138,581	3	4,612	1.27	1,239	2.36	3.72
60-69.....	785	782,426	19	22,150	15.33	15,346	1.24	1.44
70-79.....	2,344	2,481,630	95	106,604	89.20	96,605	1.07	1.10
80-89.....	865	1,199,181	88	115,000	79.53	110,877	1.11	1.04
90 and over	105	160,885	19	31,108	21.01	33,325	0.90	0.93
All.....	4,316	\$ 4,824,571	224	\$ 279,474	206.50	\$ 257,508	1.08	1.09
Year 9:								
Under 50...	74	\$ 56,409	0	\$ 0	0.16	\$ 109	0	0
50-59.....	149	115,595	6	3,899	1.30	1,046	4.63	3.73
60-69.....	670	667,617	15	10,734	13.04	12,882	1.15	0.83
70-79.....	2,151	2,197,339	87	77,763	84.00	86,818	1.04	0.90
80-89.....	808	1,054,584	75	95,792	73.59	95,914	1.02	1.00
90 and over	87	112,640	12	18,875	17.85	23,850	0.67	0.79
All.....	3,939	\$ 4,204,184	195	\$ 207,063	189.94	\$ 220,619	1.03	0.94
Year 10:								
Under 50...	70	\$ 52,368	0	\$ 0	0.16	\$ 107	0	0
50-59.....	131	107,311	0	0	1.14	987	0	0
60-69.....	549	575,243	11	19,715	10.68	11,393	1.03	1.73
70-79.....	1,919	1,935,240	87	75,058	77.61	79,332	1.12	0.95
80-89.....	752	873,893	79	97,902	68.80	81,530	1.15	1.20
90 and over	87	116,226	17	18,895	18.29	24,525	0.93	0.77
All.....	3,508	\$ 3,660,281	194	\$ 211,570	176.68	\$ 197,874	1.10	1.07
Years 1-2:								
Under 50...	254	\$ 564,409	0	\$ 0	0.60	\$ 1,104	0	0
50-59.....	1,029	1,806,421	14	24,084	9.68	17,135	1.45	1.41
60-69.....	11,210	14,537,436	188	241,234	199.59	259,909	0.94	0.93
70-79.....	4,920	7,715,020	185	341,394	186.43	294,325	0.99	1.16
80-89.....	1,874	3,183,767	143	268,870	166.84	288,111	0.86	0.93
90 and over	90	144,632	3	4,274	19.63	31,471	0.15	0.14
All.....	19,377	\$27,951,685	533	\$ 879,856	582.77	\$ 892,055	0.91	0.90
Years 3-5:								
Under 50...	265	\$ 528,528	4	\$ 4,539	0.67	\$ 1,245	5.97	3.65
50-59.....	718	1,094,096	10	11,907	6.66	10,457	1.50	1.14
60-69.....	9,736	11,422,531	198	218,169	192.68	224,565	1.03	0.97
70-79.....	7,054	9,586,607	288	382,528	271.10	374,736	1.06	1.02
80-89.....	2,919	4,808,572	255	436,511	270.86	448,677	0.94	0.97
90 and over	152	302,543	21	36,619	31.57	60,339	0.67	0.61
All.....	20,844	\$27,742,877	776	\$1,090,273	773.54	\$1,120,019	1.00	0.97

TABLE D—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	519	\$ 1,092,937	4	\$ 4,539	1.27	\$ 2,349	3.15	1.93
50-59.....	1,747	2,900,517	24	35,991	16.34	27,592	1.47	1.30
60-69.....	20,946	25,959,967	386	459,403	392.27	484,474	0.98	0.95
70-79.....	11,974	17,301,627	473	723,922	457.53	669,061	1.03	1.08
80-89.....	4,793	7,992,339	398	705,381	437.70	736,788	0.91	0.96
90 and over	242	447,175	24	40,893	51.20	91,810	0.47	0.45
All.....	40,221	\$55,694,562	1,309	\$1,970,129	1,356.31	\$2,012,074	0.97	0.98
Years 6-10:								
Under 50...	336	\$ 309,719	0	\$ 0	0.78	\$ 679	0	0
50-59.....	737	682,559	15	20,417	6.42	6,079	2.34	3.36
60-69.....	4,010	4,028,245	91	101,628	78.26	78,762	1.16	1.29
70-79.....	11,465	12,222,732	473	470,472	433.97	471,256	1.09	1.00
80-89.....	4,203	5,671,631	389	522,350	385.64	524,796	1.01	1.00
90 and over	492	706,347	95	132,158	97.92	143,458	0.97	0.92
All.....	21,243	\$23,621,233	1,063	\$1,247,025	1,002.99	\$1,225,030	1.06	1.02
Years 11-10:								
Under 50...	855	\$ 1,402,656	4	\$ 4,539	2.05	\$ 3,028	1.95	1.50
50-59.....	2,484	3,583,076	39	56,408	22.76	33,671	1.71	1.68
60-69.....	24,956	29,988,212	477	561,031	470.53	563,236	1.01	1.00
70-79.....	23,439	29,524,359	946	1,194,394	891.50	1,140,317	1.06	1.05
80-89.....	8,996	13,663,970	787	1,227,731	823.34	1,261,584	0.96	0.97
90 and over	734	1,153,522	119	173,051	149.12	235,268	0.80	0.74
All.....	61,464	\$79,315,795	2,372	\$3,217,154	2,359.30	\$3,237,104	1.01	0.99
Years 11 and over:								
Under 50...	967	\$ 285,019	6	\$ 7,358	2.61	\$ 742	2.30	9.92
50-59.....	1,576	611,184	38	14,890	13.43	5,379	2.83	2.77
60-69.....	4,410	2,025,777	142	84,886	82.21	37,469	1.73	2.27
70-79.....	11,673	5,640,217	718	327,923	493.67	241,618	1.45	1.36
80-89.....	12,430	5,612,586	1,363	668,955	1,216.93	544,842	1.12	1.23
90 and over	3,609	1,349,301	835	319,767	833.97	301,314	1.00	1.06
All.....	34,665	\$15,524,084	3,102	\$1,423,779	2,642.82	\$1,131,364	1.17	1.26
Years 6 and over:								
Under 50...	1,303	\$ 594,738	6	\$ 7,358	3.39	\$ 1,421	1.77	5.18
50-59.....	2,313	1,293,743	53	35,307	19.85	11,458	2.67	3.08
60-69.....	8,420	6,054,022	233	186,514	160.47	116,231	1.45	1.60
70-79.....	23,138	17,862,949	1,191	798,395	927.64	712,874	1.28	1.12
80-89.....	16,633	11,284,217	1,752	1,191,305	1,602.57	1,069,638	1.09	1.11
90 and over	4,101	2,055,648	930	451,925	931.89	444,772	1.00	1.02
All.....	55,908	\$39,145,317	4,165	\$2,670,804	3,645.81	\$2,356,394	1.14	1.13
All years:								
Under 50...	1,822	\$ 1,687,675	10	\$ 11,897	4.66	\$ 3,770	2.15	3.16
50-59.....	4,060	4,194,260	77	71,298	36.19	39,050	2.13	1.83
60-69.....	29,366	32,013,989	619	645,917	552.74	600,705	1.12	1.08
70-79.....	35,112	35,164,576	1,664	1,522,317	1,385.17	1,381,935	1.20	1.10
80-89.....	21,426	19,276,556	2,150	1,896,686	2,040.27	1,806,426	1.05	1.05
90 and over	4,343	2,502,823	954	492,818	983.09	536,582	0.97	0.92
All.....	96,129	\$94,839,879	5,474	\$4,640,933	5,002.12	\$4,368,468	1.09	1.06

TABLE D—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	6	\$ 16,654	0	\$ 0	0.01	\$ 23	0	0
50-59.....	48	111,812	1	558	0.22	528	4.48	1.06
60-69.....	411	626,302	5	4,315	3.76	5,644	1.33	0.76
70-79.....	52	102,070	0	0	1.01	1,932	0	0
80-89.....	3	3,065	0	0	0.15	150	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	520	\$ 859,903	6	\$ 4,873	5.15	\$ 8,277	1.17	0.59
Year 2:								
Under 50.....	6	\$ 16,654	0	\$ 0	0.01	\$ 24	0	0
50-59.....	37	85,195	1	4,720	0.17	407	5.78	11.60
60-69.....	389	630,322	6	8,988	3.69	5,879	1.63	1.53
70-79.....	66	132,403	2	2,022	1.31	2,404	1.53	0.84
80-89.....	5	7,147	2	989	0.26	359	7.55	2.75
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	503	\$ 871,721	11	\$ 16,719	5.44	\$ 9,073	2.02	1.84
Year 3:								
Under 50.....	5	\$ 13,476	0	\$ 0	0.01	\$ 22	0	0
50-59.....	26	48,536	1	4,133	0.13	237	7.87	17.44
60-69.....	356	588,762	7	15,570	3.55	5,690	1.97	2.74
70-79.....	74	143,916	0	0	1.54	2,860	0	0
80-89.....	7	10,358	1	3,949	0.41	594	2.42	6.65
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	468	\$ 805,048	9	\$ 23,652	5.64	\$ 9,403	1.60	2.52
Year 4:								
Under 50.....	3	\$ 951	0	\$ 0	0.00	\$ 2	0	0
50-59.....	18	38,654	0	0	0.08	169	0	0
60-69.....	289	447,219	2	2,276	2.99	4,493	0.67	0.51
70-79.....	80	137,289	6	23,085	1.71	3,042	3.52	7.59
80-89.....	12	12,788	1	321	0.82	925	1.23	0.35
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	402	\$ 636,901	9	\$ 25,682	5.60	\$ 8,631	1.61	2.98
Year 5:								
Under 50.....	1	\$ 520	0	\$ 0	0.00	\$ 1	0	0
50-59.....	14	30,548	0	0	0.06	129	0	0
60-69.....	224	339,180	1	473	2.39	3,525	0.42	0.13
70-79.....	83	112,549	2	1,246	1.70	2,386	1.18	0.52
80-89.....	10	9,204	3	4,350	0.80	788	3.77	5.52
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	332	\$ 492,001	6	\$ 6,069	4.95	\$ 6,829	1.21	0.89
Year 6:								
Under 50.....	3	\$ 194	0	\$ 0	0.00	\$ 0	0	0
50-59.....	9	13,940	0	0	0.04	54	0	0
60-69.....	122	217,589	0	0	1.27	2,283	0	0
70-79.....	120	155,803	1	124	2.22	3,071	0.45	0.04
80-89.....	8	4,630	1	266	0.56	308	1.78	0.86
90 and over.....	1	2,099	0	0	0.15	320	0	0
All.....	263	\$ 394,255	2	\$ 390	4.24	\$ 6,036	0.47	0.06

TABLE D—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	2	\$ 93	0	\$ 0	0.00	\$ 0	0	0
50-59	13	19,727	0	0	0.05	85	0	0
60-69	116	219,041	2	1,227	1.23	2,319	1.63	0.53
70-79	136	150,523	2	2,516	2.63	2,880	0.76	0.87
80-89	7	10,354	1	258	0.41	582	2.45	0.44
90 and over	2	2,650	0	0	0.32	435	0	0
All	276	\$ 402,388	5	\$ 4,001	4.64	\$ 6,301	1.08	0.63
Year 8:								
Under 50	2	\$ 93	0	\$ 0	0.00	\$ 0	0	0
50-59	11	15,902	1	5,929	0.05	67	21.79	88.49
60-69	87	143,886	0	0	0.93	1,482	0	0
70-79	154	208,987	3	4,100	3.00	3,808	1.00	1.08
80-89	9	13,573	2	251	0.54	803	3.69	0.31
90 and over	1	2,099	0	0	0.18	382	0	0
All	264	\$ 384,540	6	\$ 10,280	4.70	\$ 6,542	1.28	1.57
Year 9:								
Under 50	3	\$ 135	0	\$ 0	0.00	\$ 0	0	0
50-59	10	10,307	0	0	0.04	45	0	0
60-69	63	144,012	1	310	0.65	1,471	1.54	0.21
70-79	166	203,324	3	3,780	3.36	4,035	0.89	0.94
80-89	9	11,204	0	0	0.57	776	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	251	\$ 368,982	4	\$ 4,090	4.62	\$ 6,327	0.87	0.65
Year 10:								
Under 50	3	\$ 135	0	\$ 0	0.00	\$ 0	0	0
50-59	8	9,085	0	0	0.04	41	0	0
60-69	48	118,392	1	3,093	0.40	1,203	2.04	2.57
70-79	133	168,068	1	439	2.87	3,527	0.35	0.12
80-89	9	10,925	0	0	0.50	754	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	201	\$ 306,605	2	\$ 3,532	3.90	\$ 5,525	0.51	0.64
Years 1-2:								
Under 50	12	\$ 33,308	0	\$ 0	0.02	\$ 47	0	0
50-59	85	197,007	2	5,278	0.39	935	5.13	5.64
60-69	800	1,256,624	11	13,303	7.45	11,523	1.48	1.15
70-79	118	234,473	2	2,022	2.32	4,336	0.86	0.47
80-89	8	10,212	2	989	0.41	509	4.88	1.94
90 and over	0	0	0	0	0.00	0	0	0
All	1,023	\$1,731,624	17	\$ 21,592	10.59	\$17,350	1.61	1.24
Years 3-5:								
Under 50	9	\$ 14,947	0	\$ 0	0.01	\$ 25	0	0
50-59	58	117,738	1	4,133	0.27	535	3.70	7.73
60-69	869	1,375,161	10	18,319	8.93	13,708	1.12	1.34
70-79	237	393,754	8	24,331	4.95	8,288	1.62	2.94
80-89	29	32,350	5	8,620	2.03	2,307	2.46	3.74
90 and over	0	0	0	0	0.00	0	0	0
All	1,202	\$1,933,950	24	\$ 55,403	16.19	\$24,863	1.48	2.23

TABLE D—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	21	\$ 48,255	0	\$ 0	0.03	\$ 72	0	0
50-59.....	143	314,745	3	9,411	0.66	1,470	4.55	6.40
60-69.....	1,669	2,631,785	21	31,622	16.38	25,231	1.28	1.25
70-79.....	355	628,227	10	26,353	7.27	12,624	1.38	2.09
80-89.....	37	42,562	7	9,609	2.44	2,816	2.87	3.41
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,225	\$3,665,574	41	\$ 76,995	26.78	\$42,213	1.53	1.82
Years 6-10:								
Under 50...	13	\$ 650	0	\$ 0	0.00	\$ 0	0	0
50-59.....	51	68,961	1	5,929	0.22	292	4.55	20.30
60-69.....	436	842,920	4	4,630	4.57	8,758	0.88	0.53
70-79.....	709	886,705	10	10,959	14.08	17,321	0.71	0.63
80-89.....	42	50,686	4	775	2.58	3,223	1.55	0.24
90 and over	4	6,848	0	0	0.65	1,137	0	0
All.....	1,255	\$1,856,770	19	\$ 22,293	22.10	\$30,731	0.86	0.73
Years 1-10:								
Under 50...	34	\$ 48,905	0	\$ 0	0.03	\$ 72	0	0
50-59.....	194	383,706	4	15,340	0.88	1,762	4.55	8.71
60-69.....	2,105	3,474,705	25	36,252	20.95	33,989	1.19	1.07
70-79.....	1,064	1,514,932	20	37,312	21.35	29,945	0.94	1.25
80-89.....	79	93,248	11	10,384	5.02	6,039	2.19	1.72
90 and over	4	6,848	0	0	0.65	1,137	0	0
All.....	3,480	\$5,522,344	60	\$ 99,288	48.88	\$72,944	1.23	1.36
Years 11 and over:								
Under 50...	8	\$ 626	0	\$ 0	0.01	\$ 0	0	0
50-59.....	11	10,546	0	0	0.05	54	0	0
60-69.....	77	175,366	2	4,570	0.80	1,867	2.51	2.45
70-79.....	323	298,203	10	4,693	8.31	7,019	1.20	0.67
80-89.....	78	34,393	6	8,663	4.76	2,106	1.26	4.11
90 and over	2	352	1	176	0.32	56	3.13	3.14
All.....	499	\$ 519,486	19	\$ 18,102	14.25	\$11,102	1.33	1.63
Years 6 and over:								
Under 50...	21	\$ 1,276	0	\$ 0	0.01	\$ 0	0	0
50-59.....	62	79,507	1	5,929	0.27	346	3.70	17.14
60-69.....	513	1,018,286	6	9,200	5.37	10,625	1.12	0.87
70-79.....	1,032	1,184,908	20	15,652	22.39	24,340	0.89	0.64
80-89.....	120	85,079	10	9,438	7.34	5,329	1.36	1.77
90 and over	6	7,200	1	176	0.97	1,193	1.03	0.15
All.....	1,754	\$2,376,256	38	\$ 40,395	36.35	\$41,833	1.05	0.97
All years:								
Under 50...	42	\$ 49,531	0	\$ 0	0.04	\$ 72	0	0
50-59.....	205	394,252	4	15,340	0.93	1,816	4.30	8.45
60-69.....	2,182	3,650,071	27	40,822	21.75	35,856	1.24	1.14
70-79.....	1,387	1,813,135	30	42,005	29.66	36,964	1.01	1.14
80-89.....	157	127,641	17	19,047	9.78	8,145	1.74	2.34
90 and over	6	7,200	1	176	0.97	1,193	1.03	0.15
All.....	3,979	\$6,041,830	79	\$117,390	63.13	\$84,046	1.25	1.40

TABLE D—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	230	\$ 416,008	0	\$ 0	0.28	\$ 548	0	0
50-59	1,040	1,536,571	6	14,187	4.64	6,561	1.29	2.16
60-69	6,509	6,948,984	35	27,845	60.63	65,605	0.58	0.42
70-79	4,082	5,684,341	72	90,657	98.81	141,481	0.73	0.64
80-89	1,648	2,587,203	49	78,385	112.36	177,777	0.44	0.44
90 and over	55	102,693	5	11,928	9.65	18,413	0.52	0.65
All	13,564	\$ 17,275,800	167	\$ 223,002	286.37	\$ 410,385	0.58	0.54
Year 2:								
Under 50	195	\$ 328,557	2	\$ 9,288	0.24	\$ 435	8.40	21.35
50-59	852	1,266,225	6	6,939	3.83	5,284	1.57	1.31
60-69	6,101	6,260,334	76	90,471	58.71	60,388	1.29	1.50
70-79	4,234	5,737,792	83	118,058	103.17	143,324	0.80	0.82
80-89	1,895	2,683,940	85	130,509	133.05	190,392	0.64	0.69
90 and over	62	114,319	11	23,055	10.86	19,985	1.01	1.15
All	13,339	\$ 16,391,167	263	\$ 378,320	309.86	\$ 419,808	0.85	0.90
Year 3:								
Under 50	183	\$ 265,761	0	\$ 0	0.23	\$ 340	0	0
50-59	672	980,273	2	699	3.04	4,197	0.66	0.17
60-69	5,403	5,292,487	56	59,756	53.79	52,303	1.04	1.14
70-79	4,516	5,666,022	127	155,225	110.30	142,768	1.15	1.09
80-89	2,224	3,076,033	125	202,106	161.73	226,481	0.77	0.89
90 and over	73	147,240	9	13,223	12.74	25,714	0.71	0.51
All	13,071	\$ 15,427,816	319	\$ 431,009	341.83	\$ 451,803	0.93	0.95
Year 4:								
Under 50	145	\$ 204,509	1	\$ 600	0.19	\$ 278	5.24	2.16
50-59	568	832,225	6	8,736	2.56	3,502	2.34	2.49
60-69	4,618	4,271,745	62	82,638	47.41	43,279	1.31	1.91
70-79	4,800	5,482,149	135	179,374	117.04	137,827	1.15	1.30
80-89	2,466	3,276,143	141	204,896	186.21	249,371	0.76	0.82
90 and over	80	152,468	15	24,892	13.87	26,885	1.08	0.93
All	12,677	\$ 14,219,239	360	\$ 501,136	367.28	\$ 461,142	0.98	1.09
Year 5:								
Under 50	114	\$ 123,404	3	\$ 748	0.15	\$ 143	20.68	5.23
50-59	446	581,891	3	1,361	1.96	2,422	1.53	0.56
60-69	3,650	3,145,684	55	81,008	38.21	32,445	1.44	2.50
70-79	4,922	5,140,356	149	163,923	119.01	129,110	1.25	1.27
80-89	2,642	3,314,154	178	272,697	205.33	260,479	0.87	1.05
90 and over	76	130,476	14	34,915	12.89	22,899	1.09	1.52
All	11,850	\$ 12,435,965	402	\$ 554,652	377.55	\$ 447,498	1.06	1.24
Year 6:								
Under 50	82	\$ 116,492	0	\$ 0	0.11	\$ 150	0	0
50-59	358	441,580	3	6,990	1.57	1,889	1.91	3.70
60-69	2,644	2,275,899	36	29,276	26.86	22,948	1.34	1.28
70-79	5,277	4,832,716	128	100,305	124.68	119,471	1.03	0.84
80-89	2,556	3,073,310	143	197,640	192.63	231,554	0.74	0.85
90 and over	236	325,741	41	49,366	37.55	51,822	1.09	0.95
All	11,153	\$ 11,065,738	351	\$ 383,577	383.40	\$ 427,834	0.92	0.90

TABLE D—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	78	\$ 109,562	0	\$ 0	0 09	\$ 145	0	0
50-59.....	361	418,610	3	2,040	1 58	1,832	1 90	1 11
60-69.....	2,501	2,224,618	26	19,394	25 60	22,579	1 02	0 86
70-79.....	5,479	4,896,343	140	118,498	131 59	122,279	1 06	0 97
80-89.....	2,813	3,265,961	162	237,427	211 38	249,641	0 77	0 95
90 and over	268	377,798	42	61,722	44 67	63,510	0 94	0 97
All.....	11,500	\$ 11,292,892	373	\$ 439,081	414 91	\$ 459,986	0 90	0 95
Year 8:								
Under 50...	80	\$ 106,671	0	\$ 0	0 09	\$ 126	0	0
50-59.....	329	395,923	3	4,992	1 45	1,708	2 07	2 92
60-69.....	2,207	1,964,729	34	30,118	22 64	19,908	1 50	1 51
70-79.....	5,227	4,598,171	121	105,321	128 23	116,758	0 94	0 90
80-89.....	2,743	3,069,307	161	150,445	207 56	240,279	0 78	0 63
90 and over	280	378,817	30	53,221	47 53	65,263	0 63	0 82
All.....	10,866	\$ 10,513,618	349	\$ 344,097	407 51	\$ 444,042	0 86	0 77
Year 9:								
Under 50...	80	\$ 90,072	0	\$ 0	0 09	\$ 102	0	0
50-59.....	291	334,626	3	2,459	1 31	1,474	2 29	1 67
60-69.....	1,964	1,715,742	25	29,932	20 26	17,429	1 23	1 72
70-79.....	4,928	4,185,113	146	110,336	124 00	107,717	1 18	1 02
80-89.....	2,624	2,819,077	207	209,374	199 89	220,972	1 04	0 95
90 and over	300	379,011	51	92,243	52 72	66,637	0 97	1 38
All.....	10,187	\$ 9,523,641	432	\$ 444,344	398 27	\$ 414,331	1 08	1 07
Year 10:								
Under 50...	82	\$ 91,221	0	\$ 0	0 09	\$ 107	0	0
50-59.....	223	253,484	1	100	0 99	1,131	1 01	0 09
60-69.....	1,568	1,403,222	14	12,049	16 33	14,383	0 86	0 84
70-79.....	4,398	3,585,668	132	109,234	111 83	92,636	1 18	1 18
80-89.....	2,408	2,355,070	190	174,344	181 63	183,137	1 05	0 95
90 and over	286	346,937	47	70,327	50 81	60,966	0 93	1 15
All.....	8,965	\$ 8,035,602	384	\$ 366,054	361 68	\$ 352,360	1 06	1 04
Years 1-2:								
Under 50...	425	\$ 744,565	2	\$ 9,288	0 52	\$ 983	3 85	9 45
50-59.....	1,892	2,802,796	12	21,126	8 47	11,845	1 42	1 78
60-69.....	12,610	13,209,318	110	118,316	119 34	125,993	0 93	0 94
70-79.....	8,316	11,422,133	155	208,715	201 98	284,805	0 77	0 73
80-89.....	3,543	5,271,143	134	208,894	245 41	368,169	0 55	0 57
90 and over	117	217,012	16	34,983	20 51	38,398	0 78	0 91
All.....	26,903	\$ 33,666,967	430	\$ 601,322	596 23	\$ 830,193	0 72	0 72
Years 3-5:								
Under 50...	442	\$ 593,674	4	\$ 1,348	0 57	\$ 761	7 02	1 77
50-59.....	1,686	2,394,389	11	10,796	7 56	10,121	1 46	1 07
60-69.....	13,671	12,709,916	173	223,402	139 41	128,027	1 24	1 74
70-79.....	14,238	16,288,527	411	498,522	346 35	409,705	1 19	1 22
80-89.....	7,332	9,666,330	444	679,699	553 27	736,331	0 80	0 92
90 and over	229	430,184	38	73,030	39 50	75,498	0 96	0 97
All.....	37,598	\$ 42,083,020	1,081	\$ 1,486,797	1,086 66	\$ 1,360,443	0 99	1 09

TABLE D—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	867	\$ 1,338,239	6	\$ 10,636	1.09	\$ 1,744	5.50	6.10
50-59	3,578	5,197,185	23	31,922	16.03	21,966	1.43	1.45
60-69	26,281	25,919,234	284	341,718	258.75	254,020	1.10	1.35
70-79	22,354	27,710,660	566	707,237	548.33	694,510	1.03	1.02
80-89	10,875	14,937,473	578	888,593	798.68	1,104,500	0.72	0.80
90 and over	346	647,196	54	108,013	60.01	113,896	0.90	0.95
All	64,501	\$ 75,749,987	1,511	\$ 2,088,119	1,682.89	\$ 2,190,636	0.90	0.95
Years 6-10:								
Under 50	402	\$ 514,018	0	\$ 0	0.47	\$ 630	0	0
50-59	1,562	1,844,223	13	16,581	6.90	8,034	1.88	2.06
60-69	10,884	9,584,210	135	120,769	111.69	97,247	1.21	1.24
70-79	25,309	22,098,011	667	543,694	620.34	558,861	1.08	0.97
80-89	13,144	14,582,725	863	969,230	993.09	1,125,583	0.87	0.86
90 and over	1,370	1,808,304	211	326,879	233.28	308,198	0.90	1.06
All	52,671	\$ 50,431,491	1,889	\$ 1,977,153	1,965.77	\$ 2,098,553	0.96	0.94
Years 1-10:								
Under 50	1,269	\$ 1,852,257	6	\$ 10,636	1.56	\$ 2,374	3.85	4.48
50-59	5,140	7,041,408	36	48,503	22.93	30,000	1.57	1.62
60-69	37,165	35,503,444	419	462,487	370.44	351,267	1.13	1.32
70-79	47,863	49,808,671	1,233	1,250,931	1,168.67	1,253,371	1.06	1.00
80-89	24,019	29,520,198	1,441	1,857,823	1,791.77	2,230,083	0.80	0.83
90 and over	1,716	2,455,500	265	434,892	293.29	422,094	0.90	1.03
All	117,172	\$ 126,181,478	3,400	\$ 4,065,272	3,648.66	\$ 4,289,189	0.93	0.95
Years 11 and over:								
Under 50	1,073	\$ 514,510	3	\$ 3,803	1.40	\$ 657	2.15	5.79
50-59	3,220	1,292,393	33	15,449	13.32	5,566	2.48	2.78
60-69	10,023	5,005,686	150	79,323	100.09	50,092	1.50	1.58
70-79	33,478	13,924,915	1,236	456,835	933.93	379,514	1.32	1.20
80-89	58,380	18,973,956	5,536	1,739,124	4,920.23	1,557,097	1.13	1.12
90 and over	22,499	6,421,620	4,785	1,294,872	4,379.99	1,250,845	1.09	1.04
All	128,673	\$ 46,133,080	11,743	\$ 3,589,406	10,348.96	\$ 3,243,771	1.13	1.11
Years 6 and over:								
Under 50	1,475	\$ 1,028,528	3	\$ 3,803	1.87	\$ 1,287	1.60	2.95
50-59	4,782	3,136,616	46	32,030	20.22	13,600	2.27	2.36
60-69	20,907	14,589,896	285	200,092	211.78	147,339	1.35	1.36
70-79	58,787	36,022,926	1,903	1,000,529	1,554.27	938,375	1.22	1.07
80-89	71,524	33,556,681	6,399	2,708,354	5,913.32	2,682,680	1.08	1.01
90 and over	23,869	8,229,924	4,996	1,621,751	4,613.27	1,559,043	1.08	1.04
All	181,344	\$ 96,564,571	13,632	\$ 5,566,559	12,314.73	\$ 5,342,324	1.11	1.04
All years:								
Under 50	2,342	\$ 2,366,767	9	\$ 14,439	2.96	\$ 3,031	3.04	4.76
50-59	8,360	8,333,801	69	63,952	36.25	35,566	1.90	1.80
60-69	47,188	40,509,130	569	541,810	470.53	401,359	1.21	1.35
70-79	81,341	63,733,586	2,469	1,707,766	2,102.60	1,632,885	1.17	1.05
80-89	82,399	48,494,154	6,977	3,596,947	6,712.00	3,787,180	1.04	0.95
90 and over	24,215	8,877,120	5,050	1,729,764	4,673.28	1,673,939	1.08	1.03
All	245,845	\$ 172,314,558	15,143	\$ 7,654,678	13,997.62	\$ 7,532,960	1.08	1.02

TABLE D—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	1	\$ 1,712	0	\$ 0	0.00	\$ 7	0	0
50-59	10	10,913	0	0	0.09	105	0	0
60-69	96	117,147	3	1,611	1.73	2,068	1.74	0.78
70-79	21	18,953	1	1,284	0.80	603	1.26	2.13
80-89	5	1,647	1	220	0.45	138	2.20	1.59
90 and over	1	156	0	0	0.19	29	0	0
All	134	\$ 150,528	5	\$ 3,115	3.26	\$ 2,950	1.53	1.06
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	7	7,751	0	0	0.07	75	0	0
60-69	75	115,294	1	60	1.41	2,125	0.71	0.03
70-79	24	46,764	3	\$ 2,483	0.93	1,642	3.22	1.50
80-89	3	420	0	0	0.23	35	0	0
90 and over	1	156	0	0	0.21	33	0	0
All	110	\$ 170,385	4	\$ 2,543	2.85	\$ 3,910	1.40	0.65
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	5	5,788	0	0	0.05	58	0	0
60-69	53	83,837	3	1,358	1.04	1,660	2.88	0.82
70-79	29	51,710	2	13,291	1.04	1,869	1.92	7.11
80-89	5	3,441	0	0	0.40	260	0	0
90 and over	1	156	0	0	0.23	36	0	0
All	93	\$ 144,932	5	\$14,649	2.76	\$ 3,883	1.81	3.77
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	5	5,987	0	0	0.05	62	0	0
60-69	44	55,913	1	2,891	0.87	1,156	1.14	2.50
70-79	44	49,219	4	1,746	1.59	1,721	2.51	1.01
80-89	8	45,792	1	72	0.66	3,572	1.52	0.02
90 and over	1	156	0	0	0.26	40	0	0
All	102	\$ 157,067	6	\$ 4,709	3.43	\$ 6,551	1.75	0.72
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	3,096	0	0	0.03	35	0	0
60-69	35	38,736	1	592	0.75	832	1.34	0.71
70-79	28	43,855	2	550	1.04	1,540	1.92	0.36
80-89	5	45,600	0	0	0.45	3,888	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	71	\$ 131,287	3	\$ 1,142	2.27	\$ 6,295	1.32	0.18
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	512	0	0	0.01	5	0	0
60-69	11	18,496	0	0	0.21	398	0	0
70-79	35	52,431	2	6,252	1.15	1,855	1.74	3.37
80-89	8	54,841	1	1,061	0.75	5,325	1.34	0.20
90 and over	0	0	0	0	0.00	0	0	0
All	55	\$ 126,280	3	\$ 7,313	2.12	\$ 7,583	1.42	0.96

TABLE D—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	1	512	0	0	0.01	6	0	0
60-69.....	7	7,903	3	2,261	0.13	154	22.37	14.68
70-79.....	33	44,221	2	757	1.10	1,499	1.82	0.51
80-89.....	7	53,852	0	0	0.66	5,727	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	48	\$ 106,488	5	\$ 3,018	1.90	\$ 7,386	2.63	0.41
Year 8:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	2	4,267	0	0	0.03	82	0	0
70-79.....	28	31,291	2	3,333	1.00	1,161	2.00	2.87
80-89.....	8	55,653	2	2,100	0.74	6,332	2.69	0.33
90 and over	0	0	0	0	0.00	0	0	0
All.....	38	\$ 91,211	4	\$ 5,433	1.77	\$ 7,575	2.26	0.72
Year 9:								
Under 50...	3	\$ 5,027	0	\$ 0	0.00	\$ 2	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	2	4,037	0	0	0.04	88	0	0
70-79.....	14	15,082	1	522	0.50	626	1.98	0.83
80-89.....	5	5,839	0	0	0.40	474	0	0
90 and over	1	8,126	0	0	0.17	1,365	0	0
All.....	25	\$ 38,111	1	\$ 522	1.11	\$ 2,555	0.90	0.20
Year 10:								
Under 50...	3	\$ 5,027	0	\$ 0	0.00	\$ 3	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	2	4,037	0	0	0.04	96	0	0
70-79.....	13	16,210	1	144	0.53	733	1.89	0.20
80-89.....	3	3,555	1	292	0.27	310	3.74	0.94
90 and over	1	8,126	0	0	0.19	1,521	0	0
All.....	22	\$ 36,955	2	\$ 436	1.03	\$ 2,663	1.94	0.16
Years 1-2:								
Under 50...	1	\$ 1,712	0	\$ 0	0.00	\$ 7	0	0
50-59.....	17	18,664	0	0	0.16	180	0	0
60-69.....	171	232,441	4	1,671	3.14	4,193	1.27	0.40
70-79.....	45	65,717	4	3,767	1.73	2,245	2.31	1.68
80-89.....	8	2,067	1	220	0.68	173	1.47	1.27
90 and over	2	312	0	0	0.40	62	0	0
All.....	244	\$ 320,913	9	\$ 5,658	6.11	\$ 6,860	1.47	0.82
Years 3-5:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	13	14,871	0	0	0.13	155	0	0
60-69.....	132	178,486	5	4,841	2.66	3,648	1.88	1.33
70-79.....	101	144,784	8	15,587	3.67	5,130	2.18	3.04
80-89.....	18	94,833	1	72	1.51	7,720	0.66	0.01
90 and over	2	312	0	0	0.49	76	0	0
All.....	266	\$ 433,286	14	\$20,500	8.46	\$16,729	1.65	1.23

TABLE D—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	1	\$ 1,712	0	\$ 0	0 00	\$ 7	0	0
50-59.....	30	33,535	0	0	0 29	335	0	0
60-69.....	303	410,927	9	6,512	5 80	7,841	1 55	0 83
70-79.....	146	210,501	12	19,354	5 40	7,375	2 22	2 62
80-89.....	26	96,900	2	292	2 19	7,893	0 91	0 04
90 and over.....	4	624	0	0	0 89	138	0	0
All.....	510	\$ 754,199	23	\$26,158	14 57	\$23,589	1 58	1 11
Years 6-10:								
Under 50.....	6	\$ 10,054	0	\$ 0	0 00	\$ 5	0	0
50-59.....	2	1,024	0	0	0 02	11	0	0
60-69.....	24	38,740	3	2,261	0 45	818	6 67	2 76
70-79.....	123	159,235	8	11,008	4 28	5,874	1 87	1 87
80-89.....	31	173,740	4	3,453	2 82	18,168	1 42	0 19
90 and over.....	2	16,252	0	0	0 36	2,886	0	0
All.....	188	\$ 399,045	15	\$16,722	7 93	\$27,762	1 89	0 60
Years 1-10:								
Under 50.....	7	\$ 11,766	0	\$ 0	0 00	\$ 12	0	0
50-59.....	32	34,559	0	0	0 31	340	0	0
60-69.....	327	449,667	12	8,773	6 25	8,659	1 92	1 01
70-79.....	269	369,736	20	30,362	9 68	13,249	2 07	2 29
80-89.....	57	270,640	6	3,745	5 01	26,061	1 20	0 14
90 and over.....	6	16,876	0	0	1 25	3,024	0	0
All.....	698	\$1,153,244	38	\$42,880	22 50	\$51,351	1 69	0 84
Years 11 and over:								
Under 50.....	9	\$ 15,081	0	\$ 0	0 01	\$ 9	0	0
50-59.....	5	1,995	0	0	0 03	13	0	0
60-69.....	5	1,824	0	0	0 10	38	0	0
70-79.....	118	93,031	12	7,992	5 20	4,228	2 31	1 89
80-89.....	70	41,989	10	3,906	6 55	3,950	1 53	0 99
90 and over.....	11	6,496	1	395	2 42	1,396	0 41	0 28
All.....	218	\$ 160,416	23	\$12,293	14 31	\$ 9,634	1 61	1 28
Years 6 and over:								
Under 50.....	15	\$ 25,135	0	\$ 0	0 01	\$ 14	0	0
50-59.....	7	3,019	0	0	0 05	24	0	0
60-69.....	29	40,564	3	2,261	0 55	856	5 45	2 64
70-79.....	241	252,266	20	19,000	9 48	10,102	2 11	1 88
80-89.....	101	215,729	14	7,359	9 37	22,118	1 49	0 33
90 and over.....	13	22,748	1	395	2 78	4,282	0 36	0 09
All.....	406	\$ 559,461	38	\$29,015	22 24	\$37,396	1 71	0 78
All years:								
Under 50.....	16	\$ 26,847	0	\$ 0	0 01	\$ 21	0	0
50-59.....	37	36,554	0	0	0 34	359	0	0
60-69.....	332	451,491	12	8,773	6 35	8,697	1 89	1 01
70-79.....	387	462,767	32	38,354	14 88	17,477	2 15	2 19
80-89.....	127	312,629	16	7,651	11 56	30,011	1 38	0 25
90 and over.....	17	23,372	1	395	3 67	4,420	0 27	0 09
All.....	916	\$1,313,660	61	\$55,173	36 81	\$60,985	1 66	0 90

TABLE D--Continued
NONREFUND TOTAL NON-PENSION TRUST ISSUES--MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	31	\$ 28,110	0	\$ 0	0.09	\$ 66	0	0
50-59	102	149,069	0	0	0.90	1,302	0	0
60-69	723	1,099,428	16	12,499	13.03	20,045	1.23	0.62
70-79	775	1,481,444	25	48,419	30.12	57,490	0.83	0.84
80-89	309	620,985	24	43,808	26.89	53,954	0.89	0.81
90 and over	8	8,062	2	1,628	1.53	1,567	1.30	1.04
All	1,948	\$ 3,387,098	67	\$ 106,354	72.56	\$ 134,424	0.92	0.79
Year 2:								
Under 50	32	\$ 30,612	0	\$ 0	0.09	\$ 61	0	0
50-59	90	124,551	1	455	0.77	1,097	1.29	0.41
60-69	669	1,010,558	17	27,377	12.40	18,641	1.37	1.47
70-79	759	1,370,350	32	66,799	30.20	54,163	1.06	1.23
80-89	351	702,920	27	34,505	31.97	64,032	0.84	0.54
90 and over	5	13,509	1	1,200	0.96	2,758	1.04	0.44
All	1,906	\$ 3,252,500	78	\$ 130,336	76.39	\$ 140,752	1.02	0.93
Year 3:								
Under 50	29	\$ 26,613	0	\$ 0	0.08	\$ 55	0	0
50-59	86	93,295	1	72	0.74	835	1.35	0.09
60-69	570	845,051	18	19,132	11.03	16,371	1.63	1.17
70-79	748	1,281,548	46	92,327	30.38	52,222	1.51	1.77
80-89	403	794,988	28	44,794	37.22	73,262	0.75	0.61
90 and over	6	16,593	0	0	1.20	3,574	0	0
All	1,842	\$ 3,058,088	93	\$ 156,325	80.65	\$ 146,319	1.15	1.07
Year 4:								
Under 50	22	\$ 23,090	0	\$ 0	0.06	\$ 53	0	0
50-59	63	56,217	2	420	0.53	522	3.78	0.80
60-69	473	605,359	9	32,740	9.39	12,057	0.96	2.72
70-79	743	1,182,644	39	70,303	30.22	49,088	1.29	1.43
80-89	434	815,846	39	63,943	41.02	78,445	0.95	0.82
90 and over	9	24,434	2	4,559	1.88	5,155	1.06	0.88
All	1,744	\$ 2,707,590	91	\$ 171,965	83.10	\$ 145,320	1.10	1.18
Year 5:								
Under 50	21	\$ 11,417	0	\$ 0	0.05	\$ 29	0	0
50-59	62	62,942	1	291	0.51	591	1.97	0.49
60-69	382	484,769	12	26,033	7.63	9,822	1.57	2.65
70-79	732	1,107,090	36	54,133	29.09	45,196	1.24	1.20
80-89	464	786,891	39	46,877	44.99	76,928	0.87	0.61
90 and over	11	43,037	1	2,206	2.28	9,287	0.44	0.24
All	1,672	\$ 2,496,146	89	\$ 129,540	84.55	\$ 141,853	1.05	0.91
Year 6:								
Under 50	20	\$ 19,647	0	\$ 0	0.04	\$ 52	0	0
50-59	51	45,860	1	566	0.42	405	2.38	1.40
60-69	261	310,467	10	11,735	5.05	6,072	1.98	1.93
70-79	697	938,320	37	62,197	26.70	36,509	1.39	1.70
80-89	462	774,762	46	82,983	43.25	73,501	1.06	1.13
90 and over	54	99,529	10	15,862	9.73	18,951	1.03	0.84
All	1,545	\$ 2,188,585	104	\$ 173,343	85.19	\$ 135,490	1.22	1.28

TABLE D—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	16	\$ 12,861	0	\$ 0	0.03	\$ 21	0	0
50-59.....	48	48,025	0	0	0.39	410	0	0
60-69.....	242	289,182	6	9,934	4.66	5,670	1.29	1.75
70-79.....	744	965,567	34	42,545	29.06	38,670	1.17	1.10
80-89.....	474	741,539	41	65,849	44.24	71,514	0.93	0.92
90 and over.....	65	119,367	11	16,850	12.10	21,939	0.91	0.77
All.....	1,589	\$ 2,176,541	92	\$ 135,178	90.48	\$ 138,224	1.02	0.98
Year 8:								
Under 50.....	20	\$ 14,365	0	\$ 0	0.02	\$ 17	0	0
50-59.....	42	38,179	0	0	0.36	328	0	0
60-69.....	239	269,276	6	12,960	4.66	5,329	1.29	2.43
70-79.....	790	988,727	36	32,493	31.13	39,375	1.16	0.83
80-89.....	496	755,562	52	73,465	46.31	72,478	1.12	1.01
90 and over.....	82	158,830	13	20,820	16.32	30,846	0.80	0.67
All.....	1,669	\$ 2,224,939	107	\$ 139,738	98.80	\$ 148,373	1.08	0.94
Year 9:								
Under 50.....	25	\$ 15,292	0	\$ 0	0.03	\$ 19	0	0
50-59.....	36	31,635	0	0	0.33	284	0	0
60-69.....	244	273,923	8	7,733	4.73	5,438	1.69	1.42
70-79.....	805	954,745	52	70,014	32.47	38,477	1.60	1.82
80-89.....	467	663,301	49	58,472	45.01	64,323	1.09	0.91
90 and over.....	92	191,998	20	38,523	18.91	38,295	1.06	1.01
All.....	1,669	\$ 2,130,894	129	\$ 174,742	101.48	\$ 146,837	1.27	1.19
Year 10:								
Under 50.....	17	\$ 14,114	0	\$ 0	0.01	\$ 17	0	0
50-59.....	24	24,223	0	0	0.22	214	0	0
60-69.....	201	219,354	6	7,266	3.76	4,300	1.60	1.69
70-79.....	761	813,280	41	51,003	31.46	34,011	1.30	1.50
80-89.....	426	618,773	47	56,722	40.63	59,161	1.16	0.96
90 and over.....	98	181,628	25	34,704	21.15	39,395	1.18	0.88
All.....	1,527	\$ 1,871,372	119	\$ 149,695	97.23	\$ 137,098	1.22	1.09
Years 1-2:								
Under 50.....	63	\$ 58,722	0	\$ 0	0.18	\$ 127	0	0
50-59.....	192	273,620	1	455	1.67	2,399	0.60	0.19
60-69.....	1,392	2,109,986	33	39,876	25.43	38,686	1.30	1.03
70-79.....	1,534	2,851,794	57	115,218	60.32	111,653	0.94	1.03
80-89.....	660	1,323,905	51	78,313	58.86	117,986	0.87	0.66
90 and over.....	13	21,571	3	2,828	2.49	4,325	1.20	0.65
All.....	3,854	\$ 6,630,508	145	\$ 236,690	148.95	\$ 275,176	0.97	0.86
Years 3-5:								
Under 50.....	72	\$ 61,120	0	\$ 0	0.19	\$ 137	0	0
50-59.....	211	212,454	4	783	1.78	1,948	2.25	0.40
60-69.....	1,425	1,935,179	39	77,905	28.05	38,250	1.39	2.04
70-79.....	2,223	3,571,282	121	216,763	89.69	146,506	1.35	1.48
80-89.....	1,301	2,397,725	106	155,614	123.23	228,635	0.86	0.68
90 and over.....	26	84,064	3	6,765	5.36	18,016	0.56	0.38
All.....	5,258	\$ 8,261,824	273	\$ 457,830	248.30	\$ 433,492	1.10	1.06

TABLE D—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	135	\$ 119,842	0	\$ 0	0.37	\$ 264	0	0
50-59.....	403	486,074	5	1,238	3.45	4,347	1.45	0.28
60-69.....	2,817	4,045,165	72	117,781	53.48	76,936	1.35	1.53
70-79.....	3,757	6,423,076	178	331,981	150.01	258,159	1.19	1.29
80-89.....	1,961	3,721,630	157	233,927	182.09	346,621	0.86	0.67
90 and over	39	105,635	6	9,593	7.85	22,341	0.76	0.43
All.....	9,112	\$14,901,422	418	\$ 694,520	397.25	\$ 708,668	1.05	0.98
Years 6-10:								
Under 50...	98	\$ 76,279	0	\$ 0	0.13	\$ 126	0	0
50-59.....	201	187,922	1	566	1.72	1,641	0.58	0.34
60-69.....	1,187	1,362,202	36	49,628	22.86	26,809	1.57	1.85
70-79.....	3,797	4,660,639	200	258,252	150.82	187,042	1.33	1.38
80-89.....	2,325	3,553,937	235	337,491	219.44	340,977	1.07	0.99
90 and over	391	751,352	79	126,739	78.21	149,427	1.01	0.85
All.....	7,999	\$10,592,331	551	\$ 772,696	473.18	\$ 706,022	1.16	1.09
Years 1-10:								
Under 50...	233	\$ 196,121	0	\$ 0	0.50	\$ 390	0	0
50-59.....	604	673,996	6	1,804	5.17	5,988	1.16	0.30
60-69.....	4,004	5,407,367	108	167,409	76.34	103,745	1.41	1.61
70-79.....	7,554	11,083,715	378	590,233	300.83	445,201	1.26	1.33
80-89.....	4,286	7,275,567	392	571,418	401.53	687,598	0.98	0.83
90 and over	430	856,987	85	136,352	86.06	171,768	0.99	0.79
All.....	17,111	\$25,493,753	969	\$1,467,216	870.43	\$1,414,690	1.11	1.04
Years 11 and over:								
Under 50...	254	\$ 50,197	9	\$ 1,280	0.62	\$ 106	14.49	12.08
50-59.....	393	156,697	12	3,280	3.37	1,485	3.56	2.21
60-69.....	1,063	642,663	43	31,129	19.18	12,031	2.24	2.59
70-79.....	4,367	2,624,126	238	156,256	189.41	118,161	1.26	1.32
80-89.....	4,768	3,436,311	454	382,793	452.34	333,813	1.00	1.15
90 and over	1,624	1,273,559	348	264,450	422.15	322,230	0.82	0.82
All.....	12,469	\$ 8,183,553	1,104	\$ 839,188	1,087.07	\$ 787,826	1.02	1.07
Years 6 and over:								
Under 50...	352	\$ 126,476	9	\$ 1,280	0.75	\$ 232	12.00	5.52
50-59.....	594	344,619	13	3,846	5.09	3,126	2.55	1.23
60-69.....	2,250	2,004,865	79	80,757	42.04	38,840	1.88	2.08
70-79.....	8,164	7,284,765	438	414,508	340.23	305,203	1.29	1.36
80-89.....	7,093	6,990,248	689	720,284	671.78	674,790	1.03	1.07
90 and over	2,015	2,024,911	427	391,209	500.36	471,657	0.85	0.83
All.....	20,468	\$18,775,884	1,655	\$1,611,884	1,560.25	\$1,493,848	1.06	1.08
All years:								
Under 50...	487	\$ 246,318	9	\$ 1,280	1.12	\$ 496	8.04	2.58
50-59.....	997	830,693	18	5,084	8.54	7,473	2.11	0.68
60-69.....	5,067	6,050,030	151	198,538	95.52	115,776	1.58	1.71
70-79.....	11,921	13,707,841	616	746,489	490.24	563,362	1.26	1.33
80-89.....	9,054	10,711,878	846	954,211	853.87	1,021,411	0.99	0.93
90 and over	2,054	2,130,546	433	400,802	508.21	493,998	0.85	0.81
All.....	29,580	\$33,677,306	2,073	\$2,306,404	1,957.50	\$2,202,516	1.06	1.05

TABLE D—Continued
NONREFUND PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	11,942	0	0	0.02	51	0	0
60-69.....	84	101,559	0	0	0.80	939	0	0
70-79.....	29	37,705	1	525	0.61	794	1.63	0.66
80-89.....	9	4,680	1	120	0.57	256	1.75	0.47
90 and over	1	360	0	0	0.18	65	0	0
All.....	127	\$ 156,246	2	\$ 645	2.18	\$ 2,105	0.92	0.31
Year 2:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	11,942	0	0	0.02	57	0	0
60-69.....	81	98,165	2	1,315	0.81	961	2.46	1.37
70-79.....	30	49,286	1	2,461	0.64	1,072	1.57	2.30
80-89.....	7	10,943	1	120	0.50	564	1.98	0.21
90 and over	1	360	0	0	0.20	70	0	0
All.....	123	\$ 170,696	4	\$ 3,896	2.17	\$ 2,724	1.84	1.43
Year 3:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	3	4,740	0	0	0.01	15	0	0
60-69.....	72	94,467	0	0	0.77	999	0	0
70-79.....	34	53,153	0	0	0.77	1,291	0	0
80-89.....	5	3,828	0	0	0.36	252	0	0
90 and over	1	360	0	0	0.21	75	0	0
All.....	115	\$ 156,548	0	\$ 0	2.12	\$ 2,632	0	0
Year 4:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	2	2,760	0	0	0.01	9	0	0
60-69.....	55	64,232	0	0	0.60	688	0	0
70-79.....	43	63,849	0	0	0.91	1,429	0	0
80-89.....	6	3,856	1	28	0.46	287	2.19	0.10
90 and over	1	360	0	0	0.22	79	0	0
All.....	107	\$ 135,057	1	\$ 28	2.20	\$ 2,492	0.45	0.01
Year 5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	35	40,341	1	592	0.39	453	2.58	1.31
70-79.....	47	64,020	1	3,723	0.95	1,409	1.06	2.64
80-89.....	3	7,256	0	0	0.18	454	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	85	\$ 111,617	2	\$ 4,315	1.52	\$ 2,316	1.32	1.86
Year 6:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	14	13,076	1	449	0.14	141	7.20	3.18
70-79.....	57	60,742	2	5,899	1.13	1,312	1.77	4.50
80-89.....	2	4,256	0	0	0.10	224	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	73	\$ 78,074	3	\$ 6,348	1.37	\$ 1,677	2.19	3.79

TABLE D—Continued
 NONREFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	12	8,352	1	1,192	0.12	89	8.18	13.39
70-79	49	41,551	0	0	1.10	956	0	0
80-89	3	5,216	0	0	0.23	358	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	64	\$ 55,119	1	\$ 1,192	1.45	\$ 1,403	0.69	0.85
Year 8:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	10	5,838	1	190	0.11	63	9.12	3.02
70-79	50	36,569	0	0	1.22	913	0	0
80-89	4	5,336	0	0	0.33	413	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	64	\$ 47,743	1	\$ 190	1.66	\$ 1,389	0.60	0.14
Year 9:								
Under 50	3	\$ 6,888	0	\$ 0	0.00	\$ 3	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	6	3,451	0	0	0.07	41	0	0
70-79	46	32,414	1	541	1.16	808	0.87	0.67
80-89	9	5,938	2	1,755	0.58	397	3.43	4.42
90 and over	0	0	0	0	0.00	0	0	0
All	64	\$ 48,691	3	\$ 2,296	1.81	\$ 1,249	1.66	1.84
Year 10:								
Under 50	3	\$ 6,888	0	\$ 0	0.00	\$ 3	0	0
50-59	1	48	0	0	0.01	0	0	0
60-69	4	1,199	0	0	0.04	12	0	0
70-79	43	23,446	0	0	1.12	570	0	0
80-89	10	6,676	2	483	0.56	329	3.57	1.47
90 and over	1	960	0	0	0.15	146	0	0
All	62	\$ 39,217	2	\$ 483	1.88	\$ 1,060	1.06	0.46
Years 1-2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	8	23,884	0	0	0.04	108	0	0
60-69	165	199,724	2	1,315	1.61	1,900	1.24	0.69
70-79	59	86,991	2	2,986	1.25	1,866	1.60	1.60
80-89	16	15,623	2	240	1.07	820	1.87	0.29
90 and over	2	720	0	0	0.38	135	0	0
All	250	\$ 326,942	6	\$ 4,541	4.35	\$ 4,829	1.38	0.94
Years 3-5:								
Under 50	0	\$ 0	0	\$ 0	0	\$ 0	0	0
50-59	5	7,500	0	0	0.02	24	0	0
60-69	162	199,040	1	592	1.76	2,140	0.57	0.28
70-79	124	181,022	1	3,723	2.63	4,129	0.38	0.90
80-89	14	14,940	1	28	1.00	993	1.00	0.03
90 and over	2	720	0	0	0.43	154	0	0
All	307	\$ 403,222	3	\$ 4,343	5.84	\$ 7,440	0.51	0.58

TABLE D—Continued
NONREFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	13	31,384	0	0	0.06	132	0	0
60-69	327	398,764	3	1,907	3.37	4,040	0.89	0.47
70-79	183	268,013	3	6,709	3.88	5,995	0.77	1.12
80-89	30	30,563	3	268	2.07	1,813	1.45	0.15
90 and over	4	1,440	0	0	0.81	289	0	0
All	557	\$ 730,164	9	\$ 8,884	10.19	\$12,269	0.88	0.72
Years 6-10:								
Under 50	6	\$ 13,776	0	\$ 0	0.00	\$ 6	0	0
50-59	1	48	0	0	0.01	0	0	0
60-69	46	31,916	3	1,831	0.48	346	6.25	5.29
70-79	245	194,722	3	6,440	5.73	4,559	0.52	1.41
80-89	28	27,422	4	2,238	1.86	1,721	2.22	1.30
90 and over	1	960	0	0	0.15	146	0	0
All	327	\$ 268,844	10	\$10,509	8.17	\$ 6,778	1.22	1.55
Years 1-10:								
Under 50	6	\$ 13,776	0	\$ 0	0.00	\$ 6	0	0
50-59	14	31,432	0	0	0.07	132	0	0
60-69	373	430,680	6	3,738	3.85	4,386	1.56	0.85
70-79	428	462,735	6	13,149	9.61	10,554	0.62	1.25
80-89	58	57,985	7	2,506	3.87	3,534	1.81	0.71
90 and over	5	2,400	0	0	0.96	435	0	0
All	884	\$ 999,008	19	\$19,393	18.36	\$19,047	1.03	1.02
Years 11 and over:								
Under 50	9	\$ 20,664	0	\$ 0	0.00	\$ 9	0	0
50-59	1	48	0	0	0.01	0	0	0
60-69	25	35,912	0	0	0.25	361	0	0
70-79	163	106,720	7	10,088	4.84	2,789	1.45	3.62
80-89	95	31,440	11	3,555	5.76	1,913	1.91	1.91
90 and over	10	7,833	4	2,353	1.70	1,357	2.36	1.73
All	303	\$ 202,617	22	\$16,096	12.56	\$ 6,429	1.75	2.50
Years 6 and over:								
Under 50	15	\$ 34,440	0	\$ 0	0.00	\$ 15	0	0
50-59	2	96	0	0	0.02	0	0	0
60-69	71	67,828	3	1,831	0.73	707	4.11	2.59
70-79	408	301,442	10	16,528	10.57	7,348	0.95	2.25
80-89	123	58,862	15	5,893	7.56	3,634	1.98	1.62
90 and over	11	8,793	4	2,353	1.85	1,503	2.16	1.57
All	630	\$ 471,461	32	\$26,605	20.73	\$13,207	1.54	2.01
All years:								
Under 50	15	\$ 34,440	0	\$ 0	0.00	\$ 15	0	0
50-59	15	31,480	0	0	0.08	132	0	0
60-69	398	466,592	6	3,738	4.10	4,747	1.46	0.79
70-79	591	569,455	13	23,237	14.45	13,343	0.90	1.74
80-89	153	89,425	18	6,161	9.63	5,447	1.87	1.13
90 and over	15	10,233	4	2,353	2.66	1,792	1.50	1.31
All	1,187	\$1,201,625	41	\$35,489	30.92	\$25,476	1.33	1.39

TABLE D - Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 1:								
Under 50	28	\$ 36,080	0	\$ 0	0.04	\$ 53	0	0
50-59	116	154,699	1	1,515	0.52	691	1.91	2.19
60-69	1,077	1,367,820	7	8,896	10.47	13,463	0.67	0.66
70-79	1,374	2,248,116	19	26,919	34.80	57,369	0.55	0.47
80-89	580	1,125,735	13	15,778	39.73	75,537	0.33	0.21
90 and over	28	40,337	2	2,540	4.57	6,527	0.44	0.39
All	3,203	\$ 4,972,787	42	\$ 55,648	90.13	\$ 153,640	0.47	0.36
Year 2:								
Under 50	23	\$ 25,849	0	\$ 0	0.03	\$ 39	0	0
50-59	87	113,643	0	0	0.39	504	0	0
60-69	991	1,240,861	8	11,245	9.87	12,460	0.81	0.90
70-79	1,469	2,351,503	23	32,431	37.28	60,064	0.62	0.54
80-89	668	1,241,097	27	42,405	47.79	86,974	0.56	0.49
90 and over	33	48,535	6	16,999	5.59	8,230	1.07	2.07
All	3,271	\$ 5,021,488	64	\$ 103,080	100.95	\$ 168,271	0.63	0.61
Year 3:								
Under 50	16	\$ 17,656	0	\$ 0	0.02	\$ 11	0	0
50-59	80	111,645	1	312	0.36	504	2.78	0.62
60-69	911	1,110,489	7	7,501	9.30	11,462	0.75	0.65
70-79	1,536	2,390,763	31	39,795	39.44	62,088	0.79	0.64
80-89	844	1,473,047	45	84,625	60.99	106,653	0.74	0.79
90 and over	34	30,215	5	4,457	5.85	5,442	0.85	0.82
All	3,421	\$ 5,133,815	89	\$ 136,690	115.96	\$ 186,160	0.77	0.73
Year 4:								
Under 50	14	\$ 16,502	0	\$ 0	0.01	\$ 10	0	0
50-59	59	75,559	0	0	0.27	354	0	0
60-69	821	870,620	11	8,174	8.56	9,102	1.28	0.90
70-79	1,597	2,222,078	32	42,523	42.04	58,030	0.76	0.73
80-89	972	1,487,710	46	56,397	72.44	111,507	0.64	0.51
90 and over	32	34,417	2	2,476	5.50	6,076	0.36	0.41
All	3,495	\$ 4,706,886	91	\$ 109,570	128.82	\$ 185,079	0.71	0.59
Year 5:								
Under 50	12	\$ 6,771	0	\$ 0	0.01	\$ 6	0	0
50-90	47	38,260	0	0	0.22	174	0	0
60-69	663	654,126	10	8,544	7.08	6,906	1.41	1.24
70-79	1,553	2,005,589	38	56,038	40.53	52,361	0.94	1.07
80-89	1,100	1,557,891	67	89,802	83.69	120,995	0.80	0.74
90 and over	34	54,215	5	4,790	5.69	9,069	0.88	0.53
All	3,409	\$ 4,316,852	120	\$ 159,174	137.22	\$ 189,511	0.87	0.84
Year 6:								
Under 50	11	\$ 5,571	1	\$ 1,200	0.01	\$ 5	105.26	240.00
50-59	40	40,022	0	0	0.19	193	0	0
60-69	472	445,016	12	11,159	4.95	4,666	2.42	2.39
70-79	1,603	1,899,004	38	36,274	41.14	49,719	0.92	0.73
80-89	1,139	1,457,196	58	82,160	83.97	109,975	0.69	0.75
90 and over	114	191,436	14	15,428	18.14	30,888	0.77	0.50
All	3,379	\$ 4,038,245	123	\$ 146,221	148.40	\$ 195,446	0.83	0.75

TABLE D—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 7:								
Under 50	12	\$ 4,756	0	\$ 0	0 01	\$ 5	0	0
50-59	39	42,649	0	0	0 19	206	0	0
60-69	472	443,614	8	4,829	4 96	4,588	1 61	1 05
70-79	1,672	1,845,998	49	63,397	43 42	49,135	1 13	1 29
80-89	1,307	1,693,770	94	127,875	99 08	130,448	0 95	0 98
90 and over	141	227,957	18	32,003	23 62	38,526	0 76	0 83
All	3,643	\$ 4,258,744	169	\$ 228,104	171 28	\$ 222,908	0 99	1 02
Year 8:								
Under 50	15	\$ 4,211	0	\$ 0	0 01	\$ 4	0	0
50-59	36	52,060	0	0	0 18	227	0	0
60-69	430	539,648	9	7,096	4 52	5,476	1 99	1 30
70-79	1,660	1,732,582	45	45,793	43 49	46,833	1 03	0 98
80-89	1,382	1,706,528	86	98,511	105 33	133,115	0 82	0 74
90 and over	167	239,027	23	25,772	28 64	41,379	0 80	0 62
All	3,690	\$ 4,274,656	163	\$ 177,172	182 17	\$ 227,034	0 89	0 78
Year 9:								
Under 50	17	\$ 3,681	0	\$ 0	0 01	\$ 3	0	0
50-59	25	41,472	0	0	0 13	187	0	0
60-69	373	487,775	10	4,439	3 88	5,008	2 57	0 89
70-79	1,645	1,613,641	57	50,940	43 38	43,703	1 31	1 17
80-89	1,370	1,619,660	97	118,431	105 04	126,157	0 92	0 94
90 and over	182	278,327	24	47,863	31 90	49,380	0 75	0 97
All	3,612	\$ 4,044,556	188	\$ 221,673	184 34	\$ 224,438	1 02	0 99
Year 10:								
Under 50	15	\$ 2,801	0	\$ 0	0 01	\$ 3	0	0
50-59	23	40,223	0	0	0 11	184	0	0
60-69	300	429,668	1	62	3 17	4,561	0 32	0 01
70-79	1,495	1,353,268	44	52,541	39 74	36,852	1 11	1 43
80-89	1,340	1,526,622	98	103,787	103 52	119,552	0 95	0 87
90 and over	194	263,351	29	44,832	34 54	47,574	0 84	0 94
All	3,367	\$ 3,615,933	172	\$ 201,222	181 09	\$ 208,726	0 95	0 96
Years 1-2:								
Under 50	51	\$ 61,929	0	\$ 0	0 07	\$ 92	0	0
50-59	203	268,342	1	1,515	0 91	1,195	1 10	1 27
60-69	2,068	2,608,681	15	20,141	20 34	25,923	0 74	0 78
70-79	2,843	4,599,619	42	59,350	72 08	117,433	0 58	0 51
80-89	1,248	2,366,832	40	58,183	87 52	162,511	0 46	0 36
90 and over	61	88,872	8	19,539	10 16	14,757	0 79	1 32
All	6,474	\$ 9,994,275	106	\$ 158,728	191 08	\$ 321,911	0 55	0 49
Years 3-5:								
Under 50	42	\$ 40,929	0	\$ 0	0 04	\$ 27	0	0
50-59	186	225,464	1	312	0 85	1,032	1 18	0 30
60-69	2,395	2,635,235	28	24,219	24 94	27,470	1 12	0 88
70-79	4,686	6,618,430	101	138,356	122 01	172,479	0 83	0 80
80-89	2,916	4,518,648	158	230,824	217 12	339,155	0 73	0 68
90 and over	100	118,847	12	11,723	17 04	20,587	0 70	0 57
All	10,325	\$14,157,553	300	\$ 405,434	382 00	\$ 560,750	0 79	0 72

TABLE D -Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES -FEMALE LIVES-Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	93	\$ 102,858	0	\$ 0	0 11	\$ 119	0	0
50-59	389	493,806	2	1,827	1 76	2,227	1 14	0 82
60-69	4,463	5,243,916	43	44,360	45 28	53,393	0 95	0 83
70-79	7,529	11,218,049	143	197,706	194 09	289,912	0 74	0 68
80-89	4,164	6,885,480	198	289,007	304 64	501,666	0 65	0 58
90 and over	161	207,719	20	31,262	27 20	35,344	0 74	0 88
All	16,799	\$24,151,828	406	\$ 564,162	573.08	\$ 882,661	0 71	0 64
Years 6-10:								
Under 50	70	\$ 21,020	1	\$ 1,200	0 05	\$ 20	20 00	60 00
50-59	163	216,426	0	0	0 80	997	0	0
60-69	2,047	2,345,721	40	27,585	21 48	24,299	1 86	1 14
70-79	8,075	8,444,943	233	248,945	211 17	226,242	1 10	1 10
80-89	6,538	8,003,776	433	530,764	496 94	619,247	0 87	0 86
90 and over	798	1,200,698	108	165,898	136 84	207,747	0 79	0 80
All	17,691	\$20,232,134	815	\$ 974,392	867.28	\$1,078,552	0 94	0 90
Years 1-10:								
Under 50	163	\$ 123,878	1	\$ 1,200	0 16	\$ 139	6 25	8 63
50-59	552	710,232	2	1,827	2 56	3,224	0 78	0 57
60-69	6,510	7,589,637	83	71,945	66 76	77,692	1 24	0 93
70-79	15,604	19,662,542	376	446,651	405 26	516,154	0 93	0 87
80-89	10,702	14,889,256	631	819,771	801 58	1,120,913	0 79	0 73
90 and over	959	1,408,417	128	197,160	164 04	243,091	0 78	0 81
All	34,490	\$44,383,962	1,221	\$1,538,554	1,440.36	\$1,961,213	0 85	0 78
Years 11 and over:								
Under 50	464	\$ 141,307	4	\$ 1,510	0 53	\$ 152	7 49	9 93
50-59	958	349,938	31	14,430	3 98	1,482	7 78	9 74
60-69	2,210	1,346,942	102	41,140	22 00	14,095	4 64	2 92
70-79	8,392	4,802,905	377	211,387	231 50	130,978	1 63	1 61
80-89	14,506	7,637,270	1,360	674,510	1,230 61	642,839	1 11	1 05
90 and over	6,705	2,856,297	1,290	527,916	1,338.73	566,044	0 96	0 93
All	33,235	\$17,134,659	3,164	\$1,470,893	2,827.35	\$1,355,590	1 12	1 09
Years 6 and over:								
Under 50	534	\$ 162,327	5	\$ 2,710	0 58	\$ 172	8 62	15 76
50-59	1,121	566,364	31	14,430	4 78	2,479	6 49	5 82
60-69	4,257	3,692,663	142	68,725	43 48	38,394	3 27	1 79
70-79	16,467	13,247,398	610	460,332	442 67	357,220	1 38	1 29
80-89	21,044	15,641,046	1,793	1,205,274	1,727 55	1,262,086	1 04	0 95
90 and over	7,503	4,056,995	1,398	693,814	1,475 57	773,791	0 95	0 90
All	50,926	\$37,366,793	3,979	\$2,445,285	3,694.63	\$2,434,142	1 08	1 00
All years:								
Under 50	627	\$ 265,185	5	\$ 2,710	0 69	\$ 291	7 25	9 31
50-59	1,510	1,060,170	33	16,257	6 54	4,706	5 05	3 45
60-69	8,720	8,936,579	185	113,085	88 76	91,787	2 08	1 23
70-79	23,996	24,465,447	753	658,038	636 76	647,132	1 18	1 02
80-89	25,208	22,526,526	1,991	1,494,281	2,032 19	1,763,752	0 98	0 85
90 and over	7,664	4,264,714	1,418	725,076	1,502 77	809,135	0 94	0 90
All	67,725	\$61,518,621	4,385	\$3,009,447	4,267 71	\$3,316,803	1 03	0 91

TABLE E
LIFE INCOME SETTLEMENTS
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
EXPECTED DEATHS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
DEATH CLAIMS -- REFUND PAYEE ELECTIONS -- MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	14	\$ 5,980	0	\$ 0	0.03	\$ 15	0	0
50-59	37	32,530	0	0	0.29	271	0	0
60-69	105	87,042	4	2,731	1.79	1,499	2.23	1.82
70-79	17	18,793	1	68	0.58	664	1.74	0.10
80-89	2	4,673	1	3,755	0.16	390	6.15	9.63
90 and over	0	0	0	0	0.00	0	0	0
All	175	\$ 149,018	6	\$ 6,554	2.85	\$ 2,839	2.11	2.31
Year 2:								
Under 50	21	\$ 8,884	0	\$ 0	0.06	\$ 27	0	0
50-59	41	34,007	0	0	0.34	295	0	0
60-69	97	82,002	0	0	1.71	1,443	0	0
70-79	20	30,191	0	0	0.70	1,039	0	0
80-89	2	1,101	0	0	0.20	98	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	181	\$ 156,185	0	\$ 0	3.01	\$ 2,902	0	0
Year 3:								
Under 50	19	\$ 13,583	0	\$ 0	0.06	\$ 34	0	0
50-59	32	22,643	1	953	0.26	196	3.83	4.86
60-69	106	85,339	1	1,945	1.97	1,597	0.51	1.22
70-79	22	25,966	2	1,962	0.74	831	2.71	2.36
80-89	2	1,101	1	183	0.22	108	4.63	1.69
90 and over	0	0	0	0	0.00	0	0	0
All	181	\$ 148,632	5	\$ 5,043	3.25	\$ 2,766	1.54	1.82
Year 4:								
Under 50	18	\$ 12,841	0	\$ 0	0.06	\$ 35	0	0
50-59	39	21,601	0	0	0.31	183	0	0
60-69	122	89,367	1	1,368	2.40	1,757	0.42	0.78
70-79	24	36,146	1	541	0.76	1,197	1.32	0.45
80-89	2	648	0	0	0.14	45	0	0
90 and over	0	0	0	0	0.14	0	0	0
All	205	\$ 160,603	2	\$ 1,909	3.67	\$ 3,217	0.54	0.59
Year 5:								
Under 50	18	\$ 14,041	1	\$ 568	0.06	\$ 37	17.99	15.35
50-59	42	29,074	0	0	0.34	238	0	0
60-69	100	59,620	1	690	1.98	1,142	0.50	0.60
70-79	43	47,484	1	804	1.38	1,582	0.72	0.51
80-89	2	648	0	0	0.15	50	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	205	\$ 150,867	3	\$ 2,062	3.91	\$ 3,049	0.77	0.68
Year 6:								
Under 50	15	\$ 14,607	0	\$ 0	0.04	\$ 42	0	0
50-59	42	30,195	0	0	0.35	248	0	0
60-69	52	35,006	0	0	0.92	617	0	0
70-79	67	58,472	2	3,483	2.09	1,978	0.96	1.76
80-89	3	717	1	69	0.23	58	4.40	1.19
90 and over	0	0	0	0	0.00	0	0	0
All	179	\$ 138,997	3	\$ 3,552	3.63	\$ 2,943	0.83	1.21

TABLE E—Continued
REFUND PAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	13	\$ 12,799	0	\$ 0	0.03	\$ 35	0	0
50-59	38	27,978	0	0	0.33	235	0	0
60-69	47	35,351	4	1,651	0.84	625	4 78	2.64
70-79	69	42,057	1	166	2.38	1,559	0.42	0.11
80-89	2	5,388	1	528	0.16	394	6.11	1.34
90 and over	0	0	0	0	0.00	0	0	0
All	169	\$ 123,573	6	\$ 2,345	3.74	\$ 2,848	1.60	0.82
Year 8:								
Under 50	13	\$ 6,806	0	\$ 0	0.03	\$ 18	0	0
50-59	40	33,597	1	460	0.36	304	2.75	1.51
60-69	53	41,021	2	1,457	0.88	695	2.26	2.10
70-79	55	35,791	3	838	2.00	1,444	1.50	0.58
80-89	6	8,565	1	1,277	0.41	626	2.46	2.04
90 and over	0	0	0	0	0.00	0	0	0
All	167	\$ 125,880	7	\$ 4,032	3.68	\$ 3,087	1.90	1.31
Year 9:								
Under 50	18	\$ 8,150	0	\$ 0	0.05	\$ 23	0	0
50-59	32	30,491	2	5,931	0.30	295	6.64	20.11
60-69	53	40,177	1	512	0.91	692	1.10	0.74
70-79	43	23,285	1	373	1.64	877	0.61	0.43
80-89	6	8,471	1	1,388	0.43	659	2.34	2.11
90 and over	0	0	0	0	0.00	0	0	0
All	152	\$ 110,574	5	\$ 8,204	3.33	\$ 2,546	1.50	3.22
Year 10:								
Under 50	16	\$ 5,712	0	\$ 0	0.05	\$ 16	0	0
50-59	30	22,311	0	0	0.29	223	0	0
60-69	60	47,175	1	939	1.03	829	0.97	1.13
70-79	39	21,216	6	1,977	1.55	860	3.87	2.30
80-89	8	8,760	0	0	0.61	748	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	153	\$ 105,174	7	\$ 2,916	3.53	\$ 2,676	1.98	1.09
Years 1-2:								
Under 50	35	\$ 14,864	0	\$ 0	0.09	\$ 42	0	0
50-59	78	66,537	0	0	0.63	566	0	0
60-69	202	169,044	4	2,731	3.50	2,942	1.14	0.93
70-79	37	48,984	1	68	1.28	1,703	0.78	0.04
80-89	4	5,774	1	3,755	0.36	488	2.78	7.69
90 and over	0	0	0	0	0.00	0	0	0
All	356	\$ 305,203	6	\$ 6,554	5.86	\$ 5,741	1.02	1.14
Years 3-5:								
Under 50	55	\$ 40,465	1	\$ 568	0.18	\$ 106	5.56	5.36
50-59	113	73,318	1	953	0.91	617	1.10	1.54
60-69	328	234,326	3	4,003	6.35	4,496	0.47	0.89
70-79	89	109,596	4	3,307	2.88	3,610	1.39	0.92
80-89	6	2,397	1	183	0.51	203	1.96	0.90
90 and over	0	0	0	0	0.00	0	0	0
All	591	\$ 460,102	10	\$ 9,014	10.83	\$ 9,032	0.92	1.00

TABLE E—Continued
REFUND PAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	90	\$ 55,329	1	\$ 568	0.27	\$ 148	3.70	3.84
50-59.....	191	139,855	1	953	1.54	1,183	0.65	0.81
60-69.....	530	403,370	7	6,734	9.85	7,438	0.71	0.91
70-79.....	126	158,580	5	3,375	4.16	5,313	1.20	0.64
80-89.....	10	8,171	2	3,938	0.87	691	2.30	5.70
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	947	\$ 765,305	16	\$ 15,568	16.69	\$ 14,773	0.96	1.05
Years 6-10:								
Under 50.....	75	\$ 48,074	0	\$ 0	0.20	\$ 134	0	0
50-59.....	182	144,672	3	6,391	1.63	1,305	1.84	4.90
60-69.....	265	198,730	8	4,559	4.58	3,458	1.75	1.32
70-79.....	273	180,821	13	6,837	9.66	6,718	1.35	1.02
80-89.....	25	31,901	4	3,262	1.84	2,485	2.17	1.31
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	820	\$ 604,198	28	\$ 21,049	17.91	\$ 14,100	1.56	1.49
Years 1-10:								
Under 50.....	165	\$ 103,403	1	\$ 568	0.47	\$ 282	2.13	2.01
50-59.....	373	284,527	4	7,344	3.17	2,488	1.26	2.95
60-69.....	795	602,100	15	11,293	14.43	10,896	1.04	1.04
70-79.....	399	339,401	18	10,212	13.82	12,031	1.30	0.85
80-89.....	35	40,072	6	7,200	2.71	3,176	2.21	2.27
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	1,767	\$ 1,369,503	44	\$ 36,617	34.60	\$ 28,873	1.27	1.27
Years 11 and over:								
Under 50.....	244	\$ 129,758	1	\$ 39	0.78	\$ 367	1.29	0.11
50-59.....	623	376,842	11	4,008	5.48	3,226	2.01	1.24
60-69.....	1,272	739,249	27	10,520	22.50	13,230	1.20	0.80
70-79.....	1,457	744,795	74	39,114	58.40	30,190	1.27	1.30
80-89.....	657	333,798	52	19,825	57.68	29,817	0.90	0.66
90 and over.....	63	36,776	13	6,593	12.54	7,078	1.04	0.93
All.....	4,316	\$ 2,361,218	178	\$ 80,099	157.38	\$ 81,908	1.13	0.95
Years 6 and over:								
Under 50.....	319	\$ 177,832	1	\$ 39	0.98	\$ 501	1.02	0.08
50-59.....	805	521,514	14	10,399	7.11	4,531	1.97	2.30
60-69.....	1,537	937,979	35	15,079	27.08	16,688	1.29	0.90
70-79.....	1,730	925,616	87	45,951	68.06	36,908	1.28	1.25
80-89.....	682	365,699	56	23,087	59.52	32,302	0.94	0.71
90 and over.....	63	36,776	13	6,593	12.54	7,078	1.04	0.93
All.....	5,136	\$ 2,965,416	206	\$ 101,148	175.29	\$ 98,008	1.18	1.03
All years:								
Under 50.....	87	\$ 41,122	2	\$ 388	0.30	\$ 159	6.67	2.44
50-59.....	680	370,711	14	8,004	6.52	3,724	2.15	2.15
60-69.....	18,229	19,251,685	457	456,097	356.92	378,273	1.28	1.21
70-79.....	41,628	32,711,185	2,533	1,832,395	1,700.07	1,283,548	1.49	1.43
80-89.....	13,622	9,174,024	1,566	929,631	1,120.74	759,355	1.40	1.22
90 and over.....	279	248,119	49	44,056	55.55	47,108	0.88	0.94
All.....	74,525	\$61,796,846	4,621	\$3,270,571	3,240.10	\$2,472,167	1.43	1.32

TABLE E—Continued
REFUND NONPAYEE ELECTIONS MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50...	107	\$ 82,987	0	\$ 0	0.27	\$ 203	0	0
50-59.....	144	106,622	0	0	1.15	866	0	0
60-69.....	67	49,996	1	564	1.07	796	0.94	0.71
70-79.....	24	17,881	1	136	0.91	697	1.10	0.20
80-89.....	11	10,551	1	4,085	0.97	940	1.03	4.35
90 and over	0	0	0	0	0.00	0	0	0
All.....	353	\$ 268,037	3	\$ 4,785	4.37	\$ 3,502	0.69	1.37
Year 2:								
Under 50...	117	\$ 87,663	1	\$ 978	0.29	\$ 196	3.49	4.99
50-59.....	171	117,636	0	0	1.31	941	0	0
60-69.....	81	55,521	0	0	1.33	910	0	0
70-79.....	32	27,124	2	1,466	1.25	1,091	1.60	1.34
80-89.....	16	15,473	0	0	1.51	1,458	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	417	\$ 303,417	3	\$ 2,444	5.69	\$ 4,596	0.53	0.53
Year 3:								
Under 30...	119	\$ 83,009	1	\$ 144	0.28	\$ 177	3.53	0.81
50-59.....	171	110,322	2	688	1.35	870	1.49	0.79
60-69.....	85	66,764	2	1,092	1.43	1,192	1.39	0.92
70-79.....	31	24,931	1	596	1.10	894	0.91	0.67
80-89.....	21	22,336	2	2,523	1.93	2,063	1.04	1.22
90 and over	0	0	0	0	0.00	0	0	0
All.....	427	\$ 307,362	8	\$ 5,043	6.09	\$ 5,196	1.31	0.97
Year 4:								
Under 50...	121	\$ 79,710	1	\$ 112	0.28	\$ 174	3.62	0.64
50-59.....	203	121,165	1	436	1.63	978	0.61	0.45
60-69.....	90	62,729	2	1,916	1.50	1,078	1.33	1.78
70-79.....	35	30,946	0	0	1.23	1,010	0	0
80-89.....	14	16,641	1	520	1.41	1,703	0.71	0.31
90 and over	0	0	0	0	0.00	0	0	0
All.....	463	\$ 311,191	5	\$ 2,984	6.05	\$ 4,943	0.83	0.60
Year 5:								
Under 50...	131	\$ 71,330	0	\$ 0	0.30	\$ 157	0	0
50-59.....	206	118,456	1	348	1.76	1,027	0.57	0.34
60-69.....	94	55,492	1	411	1.58	928	0.63	0.44
70-79.....	36	34,147	5	1,924	1.30	1,138	3.84	1.69
80-89.....	12	12,871	1	207	1.45	1,560	0.69	0.13
90 and over	0	0	0	0	0.00	0	0	0
All.....	479	\$ 292,296	8	\$ 2,890	6.39	\$ 4,810	1.25	0.60
Year 6:								
Under 50...	121	\$ 61,460	0	\$ 0	0.30	\$ 138	0	0
50-59.....	180	96,208	0	0	1.50	816	0	0
60-69.....	103	61,446	0	0	1.56	930	0	0
70-79.....	44	40,152	2	8,417	1.53	1,346	1.30	6.25
80-89.....	13	15,261	1	246	1.50	1,845	0.67	0.13
90 and over	0	0	0	0	0.00	0	0	0
All.....	461	\$ 274,527	3	\$ 8,663	6.39	\$ 5,075	0.47	1.71

TABLE E—Continued
REFUND NONPAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	117	\$ 53,829	0	\$ 0	0 28	\$ 109	0	0
50-59	166	97,134	1	1,255	1 36	802	0 74	1 56
60-69	125	70,061	1	1,784	1 97	1,119	0 51	1 59
70-79	32	24,437	0	0	1 07	823	0	0
80-89	4	3,314	2	1,080	0 37	287	5 36	3 76
90 and over	0	0	0	0	0 00	0	0	0
All	444	\$ 248,775	4	\$ 4,119	5 05	\$ 3,140	0 79	1 31
Year 8:								
Under 50	129	\$ 62,249	0	\$ 0	0 30	\$ 133	0	0
50-59	174	92,216	2	820	1 49	805	1 34	1 02
60-69	118	64,485	2	1,250	1 91	1,065	1 05	1 17
70-79	34	19,251	1	708	1 14	655	9 88	1 08
80-89	3	2,480	1	1,200	0 23	197	4 38	6 09
90 and over	0	0	0	0	0 00	0	0	0
All	458	\$ 240,681	6	\$ 3,978	5 07	\$ 2,855	1 18	1 39
Year 9:								
Under 50	127	\$ 58,540	0	\$ 0	0 27	\$ 132	0	0
50-59	158	80,024	5	4,981	1 35	696	3 72	7 16
60-69	107	58,838	1	146	1 77	987	0 57	0 15
70-79	45	23,864	4	3,207	1 56	856	2 56	3 75
80-89	1	246	0	0	0 07	17	0	0
90 and over	1	1,994	0	0	0 17	335	0	0
All	439	\$ 223,506	10	\$ 8,334	5 19	\$ 3,023	1 93	2 76
Year 10:								
Under 50	138	\$ 56,388	0	\$ 0	0 34	\$ 138	0	0
50-59	169	89,945	1	1,576	1 43	752	0 70	2 10
60-69	102	54,416	2	1,294	1 69	939	1 18	1 38
70-79	41	19,269	5	1,530	1 41	643	3 54	2 38
80-89	8	6,961	0	0	0 60	511	0	0
90 and over	1	1,994	0	0	0 19	373	0	0
All	459	\$ 228,973	8	\$ 4,400	5 66	\$ 3,356	1 41	1 31
Years 1-2:								
Under 50	224	\$ 170,650	1	\$ 978	0 56	\$ 399	1 79	2 45
50-59	315	224,258	0	0	2 46	1,807	0	0
60-69	148	105,517	1	564	2 40	1,706	0 42	0 33
70-79	56	45,005	3	1,602	2 16	1,788	1 39	0 90
80-89	27	26,024	1	4,085	2 48	2,398	0 40	1 70
90 and over	0	0	0	0	0 00	0	0	0
All	770	\$ 571,454	6	\$ 7,229	10 26	\$ 8,098	0 60	0 89
Years 3-5:								
Under 50	371	\$ 234,049	2	\$ 256	0 86	\$ 508	2 33	0 50
50-59	580	349,943	4	1,472	4 74	2,875	0 84	0 51
60-69	269	184,985	5	3,419	4 51	3,198	1 11	1 07
70-79	102	90,024	6	2,520	3 63	3,042	1 65	0 83
80-89	47	51,848	4	3,250	4 79	5,326	0 84	0 61
90 and over	0	0	0	0	0 00	0	0	0
All	1,369	\$ 910,849	21	\$ 10,917	18 53	\$ 14,949	1 13	0 73

TABLE E—Continued
REFUND NONPAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	595	\$ 404,699	3	\$ 1,234	1.42	\$ 907	2.11	1.36
50-59	895	574,201	4	1,472	7.20	4,682	0.56	0.31
60-69	417	290,502	6	3,983	6.91	4,904	0.87	0.81
70-79	158	135,029	9	4,122	5.79	4,830	1.55	0.85
80-89	74	77,872	5	7,335	7.27	7,724	0.69	0.95
90 and over	0	0	0	0	0.00	0	0	0
All	2,139	\$1,482,303	27	\$ 18,146	28.59	\$ 23,047	0.94	0.79
Years 6-10:								
Under 50	632	\$ 292,466	0	\$ 0	1.49	\$ 650	0	0
50-59	847	455,527	9	8,632	7.13	3,871	1.26	2.23
60-69	555	309,246	6	4,474	8.90	5,040	0.67	0.89
70-79	196	126,973	12	13,862	6.71	4,323	1.79	3.21
80-89	29	28,262	4	2,526	2.77	2,857	1.44	0.88
90 and over	2	3,988	0	0	0.36	708	0	0
All	2,261	\$1,216,462	31	\$ 29,494	27.36	\$ 17,449	1.13	1.69
Years 11-10:								
Under 50	1,227	\$ 697,165	3	\$ 1,234	2.91	\$ 1,557	1.03	0.79
50-59	1,742	1,029,728	13	10,104	14.33	8,553	0.91	1.18
60-69	972	599,748	12	8,457	15.81	9,944	0.76	0.85
70-79	354	262,002	21	17,984	12.50	9,153	1.68	1.96
80-89	103	106,134	9	9,861	10.04	10,581	0.90	0.93
90 and over	2	3,988	0	0	0.36	708	0	0
All	4,400	\$2,698,765	58	\$ 47,640	55.95	\$ 40,496	1.04	1.18
Years 11 and over:								
Under 50	1,747	\$ 670,020	9	\$ 4,377	4.51	\$ 1,883	1.99	2.32
50-59	2,510	1,229,000	40	20,638	21.39	10,187	1.87	2.03
60-69	2,767	1,256,034	71	33,444	46.33	21,197	1.53	1.58
70-79	1,374	640,270	80	39,743	51.61	23,764	1.55	1.67
80-89	374	233,178	45	28,984	33.91	21,212	1.33	1.37
90 and over	37	26,933	4	2,076	9.11	6,511	0.44	0.32
All	8,809	\$4,055,435	249	\$129,262	166.86	\$ 84,754	1.49	1.53
Years 6 and over:								
Under 50	2,379	\$ 962,486	9	\$ 4,377	6.00	\$ 2,533	1.50	1.73
50-59	3,357	1,684,527	49	29,270	28.52	14,058	1.72	2.08
60-69	3,322	1,565,280	77	37,918	55.23	26,237	1.39	1.45
70-79	1,570	767,243	92	53,605	58.32	28,087	1.58	1.91
80-89	403	261,440	49	31,510	36.68	24,069	1.34	1.31
90 and over	39	30,921	4	2,076	9.47	7,219	0.42	0.29
All	11,070	\$5,271,897	280	\$158,756	194.22	\$102,203	1.44	1.55
All years:								
Under 50	2,974	\$1,367,185	12	\$ 5,611	7.42	\$ 3,440	1.62	1.63
50-59	4,252	2,258,728	53	30,742	35.72	18,740	1.48	1.64
60-69	3,739	1,855,782	83	41,901	62.14	31,141	1.34	1.35
70-79	1,728	902,272	101	57,727	54.11	32,917	1.58	1.75
80-89	477	339,312	54	38,845	43.95	31,793	1.23	1.22
90 and over	39	30,921	4	2,076	9.47	7,219	0.42	0.29
All	13,209	\$6,754,200	307	\$176,902	222.81	\$125,250	1.38	1.41

TABLE E--Continued

DEATH CLAIMS - REFUND PAYEE ELECTIONS - FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	136	\$ 135,351	0	\$ 0	0 18	\$ 172	0	0
50-59	550	524,328	5	3,892	2 32	2,236	2 16	1 74
60-69	1,035	1,030,547	8	5,770	9 54	9,552	0 84	0 60
70-79	630	694,277	7	3,520	14 87	16,540	0 47	0 21
80-89	142	199,669	8	12,648	9 49	13,356	0 84	0 95
90 and over	3	4,715	0	0	0 49	761	0	0
All	2,496	\$ 2,588,887	28	\$ 25,830	36 89	\$ 42,617	0 76	0 61
Year 2:								
Under 50	142	\$ 136,201	0	\$ 0	0 19	\$ 168	0	0
50-59	545	469,894	6	7,715	2 34	2,023	2 57	3 81
60-69	1,084	1,062,626	19	19,837	10 11	9,892	1 88	2 01
70-79	791	846,154	20	21,151	18 81	20,465	1 06	1 03
80-89	189	239,910	5	5,815	12 57	16,439	0 40	0 35
90 and over	4	4,902	0	0	0 62	776	0	0
All	2,755	\$ 2,739,687	50	\$ 54,518	44 64	\$ 49,763	1 12	1 10
Year 3:								
Under 50	129	\$ 110,051	0	\$ 0	0 18	\$ 143	0	0
50-59	496	387,023	3	1,063	2 11	1,682	1 42	0 63
60-69	1,216	1,146,620	12	15,188	11 43	10,740	1 05	1 41
70-79	939	941,683	22	17,892	22 35	23,096	0 98	0 77
80-89	227	290,628	15	20,315	15 45	19,842	0 97	1 02
90 and over	6	6,186	1	652	1 02	1,063	0 98	0 61
All	3,013	\$ 2,882,193	53	\$ 55,110	52 54	\$ 56,566	1 01	0 97
Year 4:								
Under 50	138	\$ 104,814	2	\$ 1,121	0 20	\$ 145	10 22	7 73
50-59	479	400,283	1	374	2 07	1,756	0 48	0 21
60-69	1,288	1,094,975	11	13,723	12 25	10,398	0 90	1 32
70-79	1,148	1,052,750	29	21,164	27 59	26,347	1 05	0 80
80-89	299	335,976	25	25,926	19 61	21,986	1 28	1 18
90 and over	9	10,649	1	1,737	1 47	1,776	0 68	0 98
All	3,361	\$ 2,999,447	69	\$ 64,045	63 19	\$ 62,408	1 09	1 03
Year 5:								
Under 50	127	\$ 95,965	0	\$ 0	0 18	\$ 141	0	0
50-59	507	377,893	5	1,140	2 20	1,669	2 28	0 68
60-69	1,421	1,152,757	20	19,862	13 64	11,037	1 47	1 80
70-79	1,381	1,156,231	34	28,137	32 84	28,189	1 04	1 00
80-89	398	446,326	24	26,623	25 78	28,384	0 93	0 94
90 and over	14	16,972	2	4,273	2 31	2,802	0 87	1 52
All	3,848	\$ 3,246,144	85	\$ 80,035	76 95	\$ 72,222	1 10	1 11
Year 6:								
Under 50	109	\$ 76,224	0	\$ 0	0 16	\$ 99	0	0
50-59	510	384,734	6	3,620	2 19	1,680	2 74	2 15
60-69	1,557	1,148,501	19	14,307	14 96	11,136	1 27	1 28
70-79	1,697	1,370,699	44	47,851	40 15	33,686	1 10	1 42
80-89	469	491,040	26	31,918	31 10	33,134	0 84	0 96
90 and over	23	15,662	2	2,904	4 02	2,756	0 50	1 05
All	4,365	\$ 3,486,860	97	\$ 100,600	92 58	\$ 82,491	1 05	1 22

TABLE E—Continued

REFUND PAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 7:								
Under 50.....	89	\$ 57,098	0	\$ 0	0.13	\$ 80	0	0
50-59.....	490	364,218	3	3,156	2.14	1,615	1.40	1.95
60-69.....	1,764	1,239,544	14	8,944	17.09	12,037	0.82	0.74
70-79.....	1,990	1,547,126	64	43,516	47.42	38,207	1.35	1.14
80-89.....	596	587,048	36	32,985	39.61	39,221	0.91	0.84
90 and over	20	13,215	2	503	3.78	2,493	0.53	0.20
All.....	4,949	\$ 3,808,249	119	\$ 89,104	110.17	\$ 93,653	1.08	0.95
Year 8:								
Under 50.....	84	\$ 53,476	0	\$ 0	0.12	\$ 71	0	0
50-59.....	523	362,906	7	5,321	2.34	1,652	3.00	3.22
60-69.....	1,873	1,281,834	17	10,339	18.43	12,625	0.92	0.82
70-79.....	2,181	1,691,491	49	40,843	52.24	42,652	0.94	0.96
80-89.....	793	706,273	41	33,593	52.82	47,703	0.78	0.70
90 and over	27	21,037	10	6,992	4.85	3,758	2.06	1.86
All.....	5,481	\$ 4,117,017	124	\$ 97,088	130.80	\$ 108,461	0.95	0.90
Year 9:								
Under 50.....	77	\$ 44,401	1	\$ 513	0.11	\$ 63	9.47	8.14
50-59.....	475	310,996	5	2,941	2.14	1,431	2.34	2.06
60-69.....	1,924	1,263,291	27	15,142	18.96	12,541	1.42	1.21
70-79.....	2,416	1,819,374	42	40,547	57.22	44,818	0.73	0.90
80-89.....	941	866,215	52	39,961	63.94	59,064	0.81	0.68
90 and over	24	19,201	2	2,297	4.25	3,413	0.47	0.67
All.....	5,857	\$ 4,323,478	129	\$ 101,401	146.62	\$ 121,330	0.88	0.84
Year 10:								
Under 50.....	79	\$ 48,622	0	\$ 0	0.11	\$ 65	0	0
50-59.....	420	257,208	0	1,960	2.14	1,230	0	0
60-69.....	1,825	1,182,016	18	13,028	18.10	11,706	0.99	1.11
70-79.....	2,639	1,915,567	74	68,529	63.22	47,167	1.17	1.45
80-89.....	1,030	934,458	80	72,685	71.84	64,730	1.11	1.12
90 and over	41	40,152	4	1,512	7.07	6,763	0.57	0.22
All.....	6,034	\$ 4,378,023	176	\$ 155,754	162.30	\$ 131,661	1.08	1.18
Years 1-2:								
Under 50.....	278	\$ 271,552	0	\$ 0	0.37	\$ 340	0	0
50-59.....	1,095	994,222	11	11,607	4.66	4,259	2.36	2.73
60-69.....	2,119	2,093,173	27	25,607	19.65	19,444	1.37	1.32
70-79.....	1,421	1,540,431	27	24,671	33.68	37,005	0.80	0.67
80-89.....	331	439,579	13	18,463	22.06	29,795	0.59	0.62
90 and over	7	9,617	0	0	1.11	1,537	0	0
All.....	5,251	\$ 5,348,574	78	\$ 80,348	81.53	\$ 92,380	0.96	0.87
Years 3-5:								
Under 50.....	394	\$ 310,842	2	\$ 1,121	0.56	\$ 429	3.57	2.61
50-59.....	1,482	1,165,199	9	2,577	6.38	5,107	1.41	0.50
60-69.....	3,925	3,394,352	43	48,773	37.32	32,175	1.15	1.52
70-79.....	3,468	3,150,664	85	67,193	82.78	77,632	1.03	0.87
80-89.....	924	1,072,930	64	72,864	60.84	70,212	1.05	1.04
90 and over	29	33,807	4	6,662	4.80	5,641	0.83	1.18
All.....	10,222	\$ 9,127,784	207	\$ 199,190	192.68	\$ 191,196	1.07	1.04

TABLE E—Continued
REFUND PAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	672	\$ 582,384	2	\$ 1,121	0 93	\$ 769	2 15	1 46
50-59	2,577	2,159,421	20	14,184	11 04	9,366	1 81	1 51
60-69	6,044	5,487,525	70	74,380	56 97	51,619	1 23	1 44
70-79	4,889	4,691,095	112	91,864	116 46	114,637	0 96	0 80
80-89	1,255	1,512,509	77	91,327	82 90	100,007	0 93	0 91
90 and over	36	43,424	4	6,662	5 91	7,178	0 68	0 93
All	15,473	\$ 14,476,358	285	\$ 279,538	274 21	\$ 283,576	1 04	0 99
Years 6-10:								
Under 50	438	\$ 279,821	1	\$ 513	0 63	\$ 378	1 59	1 36
50-59	2,418	1,680,062	21	15,038	10 77	7,608	1 95	1 98
60-69	8,943	6,115,186	95	61,760	87 51	60,045	1 09	1 03
70-79	10,923	8,344,257	273	241,286	260 25	206,530	1 05	1 17
80-89	3,829	3,585,034	235	211,142	259 31	243,852	0 91	0 87
90 and over	135	109,267	20	14,208	23 97	19,183	0 83	0 74
All	26,686	\$ 20,113,627	645	\$ 543,947	642 47	\$ 537,596	1 00	1 01
Years 11-10:								
Under 50	1,110	\$ 862,205	3	\$ 1,654	1 56	\$ 1,147	1 92	1 42
50-59	4,995	3,839,483	41	29,222	21 81	16,974	1 83	1 72
60-69	14,987	11,602,711	165	136,140	144 51	111,664	1 14	1 22
70-79	15,812	13,035,352	385	333,150	376 71	321,167	1 02	1 04
80-89	5,084	5,097,543	312	302,469	342 21	343,859	0 91	0 88
90 and over	171	152,691	24	20,870	29 88	26,361	0 80	0 79
All	42,159	\$ 34,589,985	930	\$ 823,485	916 68	\$ 821,172	1 01	1 00
Years 11 and over:								
Under 50	818	\$ 476,468	4	\$ 1,152	1 20	\$ 688	3 33	1 67
50-59	4,017	2,036,716	29	14,290	17 59	8,829	1 65	1 62
60-69	19,939	10,700,207	251	139,043	199 62	107,692	1 26	1 29
70-79	52,589	30,424,666	1,544	883,444	1,394 66	813,752	1 11	1 09
80-89	44,325	27,586,134	3,437	2,174,917	3,412 43	2,129,893	1 01	1 02
90 and over	6,336	3,864,231	1,185	720,348	1,170 43	708,772	1 01	1 02
All	128,024	\$ 75,088,422	6,450	\$ 3,933,194	6,195 93	\$ 3,769,626	1 04	1 04
Years 6 and over:								
Under 50	1,256	\$ 756,289	5	\$ 1,665	1 83	\$ 1,066	2 73	1 56
50-59	6,435	3,716,778	50	29,328	28 36	16,437	1 76	1 78
60-69	28,882	16,815,393	346	200,803	287 16	167,737	1 20	1 20
70-79	63,512	38,768,923	1,817	1,124,730	1,654 91	1,020,282	1 10	1 10
80-89	48,154	31,171,168	3,672	2,386,059	3,671 74	2,373,745	1 00	1 01
90 and over	6,471	3,973,498	1,205	734,556	1,194 40	727,955	1 01	1 01
All	154,710	\$ 95,202,049	7,095	\$ 4,477,141	6,838 40	\$ 4,307,222	1 04	1 04
All years:								
Under 50	1,928	\$ 1,338,673	7	\$ 2,786	2 76	\$ 1,835	2 54	1 52
50-59	9,012	5,876,199	70	43,512	39 40	25,803	1 78	1 69
60-69	34,926	22,302,918	416	275,183	344 13	219,356	1 21	1 25
70-79	68,401	43,460,018	1,929	1,216,594	1,771 37	1,134,919	1 09	1 07
80-89	49,409	32,683,677	3,749	2,477,386	3,754 64	2,473,752	1 00	1 00
90 and over	6,507	4,016,922	1,209	741,218	1,200 31	735,133	1 01	1 01
All	170,183	\$109,678,407	7,380	\$4,756,679	7,112 61	\$4,590,798	1 04	1 04

TABLE E—Continued
REFUND NONPAYEE ELECTIONS—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 1:								
Under 50.....	376	\$ 275,379	1	\$ 918	0.49	\$ 357	2.03	2.57
50-59.....	1,096	809,513	7	9,463	4.32	3,165	1.62	2.99
60-69.....	2,147	1,577,667	26	20,765	20.22	15,011	1.29	1.38
70-79.....	1,914	1,835,293	37	37,917	45.66	44,538	0.81	0.85
80-89.....	591	644,345	26	35,697	40.62	45,792	0.64	0.78
90 and over	15	14,244	0	0	2.47	2,355	0	0
All.....	6,139	\$ 5,156,441	97	\$ 104,760	113.78	\$ 111,218	0.85	0.94
Year 2:								
Under 50.....	402	\$ 256,886	0	\$ 0	0.53	\$ 343	0	0
50-59.....	1,224	866,309	5	3,032	4.93	3,453	1.01	0.88
60-69.....	2,407	1,716,103	27	15,968	22.78	16,306	1.18	0.98
70-79.....	2,291	2,139,260	56	55,310	55.37	52,790	1.01	1.05
80-89.....	686	711,904	49	73,513	48.65	51,383	1.01	1.43
90 and over	27	29,809	0	0	4.60	4,840	0	0
All.....	7,037	\$ 5,720,271	137	\$ 147,823	136.86	\$ 129,115	1.00	1.14
Year 3:								
Under 50.....	390	\$ 228,213	2	\$ 907	0.51	\$ 287	3.94	3.16
50-59.....	1,325	893,780	5	9,065	5.34	3,564	0.94	2.54
60-69.....	2,651	1,819,065	30	21,661	25.24	17,404	1.19	1.24
70-79.....	2,456	2,146,058	63	54,012	59.93	53,676	1.05	1.01
80-89.....	833	836,359	53	58,288	58.89	59,693	0.90	0.98
90 and over	38	32,372	7	3,928	6.49	5,542	1.08	0.71
All.....	7,693	\$ 5,955,847	160	\$ 147,861	156.40	\$ 140,166	1.02	1.05
Year 4:								
Under 50.....	431	\$ 235,649	1	\$ 600	0.57	\$ 317	1.75	1.89
50-59.....	1,440	903,243	11	13,047	5.95	3,747	1.85	3.48
60-69.....	2,846	1,877,734	36	27,439	27.14	17,880	1.33	1.53
70-79.....	2,620	2,202,296	69	70,075	64.57	56,712	1.07	1.24
80-89.....	942	876,563	75	63,091	65.10	60,591	1.15	1.04
90 and over	67	70,758	15	20,150	11.41	12,051	1.31	1.67
All.....	8,346	\$ 6,166,243	207	\$ 194,402	174.74	\$ 151,298	1.18	1.28
Year 5:								
Under 50.....	449	\$ 246,098	1	\$ 290	0.61	\$ 342	1.63	0.85
50-59.....	1,480	834,765	21	10,139	6.30	3,595	3.33	2.82
60-69.....	2,962	1,916,604	43	24,965	28.47	18,475	1.51	1.35
70-79.....	2,773	2,216,635	80	62,115	68.56	56,776	1.17	1.09
80-89.....	1,072	979,778	84	68,699	73.74	67,075	1.14	1.02
90 and over	74	74,372	6	4,052	13.08	12,818	0.46	0.32
All.....	8,810	\$ 6,268,252	235	\$ 170,260	190.76	\$ 159,081	1.23	1.07
Year 6:								
Under 50.....	385	\$ 184,464	0	\$ 0	0.50	\$ 238	0	0
50-59.....	1,434	758,045	7	4,091	6.01	3,184	1.16	1.28
60-69.....	3,091	1,962,989	35	24,652	29.12	18,690	1.20	1.32
70-79.....	3,053	2,293,485	97	78,539	74.22	57,501	1.31	1.37
80-89.....	1,199	1,107,721	87	68,402	83.76	76,781	1.04	0.89
90 and over	81	84,460	5	13,745	14.66	14,962	0.34	0.92
All.....	9,243	\$ 6,391,164	231	\$ 189,429	208.27	\$ 171,356	1.11	1.11

TABLE E—Continued
REFUND NONPAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	329	\$ 153,393	1	\$ 2,366	0.43	\$ 200	2.35	11.83
50-59	1,364	700,979	5	4,264	5.80	2,991	0.86	1.43
60-69	3,060	1,847,349	53	38,036	28.92	17,746	1.83	2.14
70-79	3,010	2,186,036	82	50,577	71.62	53,578	1.14	0.94
80-89	1,313	1,200,251	88	79,654	93.92	85,625	0.94	0.93
90 and over	104	96,400	12	18,606	18.90	17,145	0.63	1.09
All	9,180	\$ 6,184,408	241	\$ 193,503	219.59	\$ 177,285	1.10	1.09
Year 8:								
Under 50	361	\$ 172,963	1	\$ 258	0.47	\$ 230	2.12	1.12
50-59	1,242	672,259	6	2,332	5.40	2,901	1.11	0.80
60-69	3,188	1,844,809	31	20,396	30.37	17,893	1.02	1.14
70-79	3,105	2,218,525	100	72,500	74.77	54,796	1.34	1.32
80-89	1,329	1,170,924	95	110,835	96.02	85,039	0.99	1.30
90 and over	103	78,618	20	17,624	18.94	14,116	1.06	1.25
All	9,328	\$ 6,158,098	253	\$ 223,945	225.97	\$ 174,975	1.12	1.28
Year 9:								
Under 50	366	\$ 175,658	0	\$ 0	0.47	\$ 230	0	0
50-59	1,120	607,247	9	4,028	4.87	2,638	1.85	1.53
60-69	3,152	1,716,685	41	18,294	30.01	16,547	1.37	1.11
70-79	3,205	2,304,474	79	70,230	77.18	56,204	1.02	1.25
80-89	1,417	1,192,609	103	87,628	102.88	86,813	1.00	1.01
90 and over	114	87,823	15	11,422	21.21	16,174	0.71	0.71
All	9,374	\$ 6,084,496	247	\$ 191,602	236.62	\$ 178,666	1.04	1.07
Year 10:								
Under 50	339	\$ 152,731	0	\$ 0	0.44	\$ 198	0	0
50-59	1,103	588,154	10	6,281	4.94	2,619	2.03	2.40
60-69	3,118	1,740,926	51	29,651	30.01	16,954	1.70	1.75
70-79	3,335	2,311,239	95	68,355	81.44	57,463	1.17	1.19
80-89	1,405	1,180,628	85	77,128	103.98	89,281	0.82	0.86
90 and over	142	119,691	17	13,562	26.07	21,270	0.65	0.64
All	9,442	\$ 6,093,369	258	\$ 194,977	246.88	\$ 187,785	1.05	1.04
Years 1-2:								
Under 50	778	\$ 532,265	1	\$ 918	1.02	\$ 700	0.98	1.31
50-59	2,320	1,675,822	12	12,495	9.25	6,618	1.30	1.89
60-69	4,554	3,293,770	53	36,733	43.00	31,317	1.23	1.17
70-79	4,205	3,974,553	93	93,227	101.03	97,328	0.92	0.96
80-89	1,277	1,356,249	75	109,210	89.27	97,175	0.84	1.12
90 and over	42	44,053	0	0	7.07	7,195	0	0
All	13,176	\$ 10,876,712	234	\$ 252,583	250.64	\$ 240,333	0.93	1.05
Years 3-5:								
Under 50	1,270	\$ 709,960	4	\$ 1,797	1.69	\$ 946	2.37	1.90
50-59	4,245	2,631,788	37	32,251	17.59	10,906	2.10	2.96
60-69	8,459	5,613,403	109	74,065	80.85	53,759	1.35	1.38
70-79	7,849	6,564,989	212	186,202	193.06	167,164	1.10	1.11
80-89	2,847	2,692,700	212	190,078	197.73	187,359	1.07	1.01
90 and over	179	177,502	28	28,130	30.98	30,411	0.90	0.92
All	24,849	\$ 18,390,342	602	\$ 512,523	521.90	\$ 450,545	1.15	1.14

TABLE E—Continued
REFUND NONPAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Bon-tracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	2,048	\$ 1,242,225	5	\$ 2,715	2 71	\$ 1,646	1.85	1.65
50-59	6,565	4,307,610	49	44,746	26 84	17,524	1.83	2.55
60-69	13,013	8,907,173	162	110,798	123 85	85,076	1.31	1.30
70-79	12,054	10,539,542	305	279,429	294 09	264,492	1.04	1.06
80-89	4,124	4,048,949	287	299,288	287 00	284,534	1.00	1.05
90 and over	221	221,555	28	28,130	38.05	37,606	0.74	0.75
All	38,025	\$ 29,267,054	836	\$ 765,106	772.54	\$ 690,878	1.08	1.11
Years 6-10:								
Under 50	1,780	\$ 839,209	2	\$ 2,624	2 31	\$ 1,096	0.87	2.39
50-59	6,263	3,326,684	37	20,996	27.02	14,333	1.37	1.46
60-69	15,609	9,112,758	211	131,029	148 43	87,830	1.42	1.49
70-79	15,708	11,313,759	453	340,201	379 23	279,602	1.19	1.22
80-89	6,663	5,852,133	458	423,647	480.56	423,539	0.95	1.00
90 and over	544	466,992	69	74,959	99.78	83,667	0.69	0.90
All	46,567	\$ 30,911,535	1,230	\$ 993,456	1,137.33	\$ 890,067	1.08	1.12
Years 11-10:								
Under 50	3,828	\$ 2,081,434	7	\$ 5,339	5 02	\$ 2,742	1.39	1.95
50-59	12,828	7,634,294	86	65,742	53 86	31,857	1.60	2.06
60-69	28,622	18,019,931	373	241,827	272 28	172,906	1.37	1.40
70-79	27,762	21,853,301	758	619,630	673 32	544,094	1.13	1.14
80-89	10,787	9,901,082	745	722,935	767 56	708,073	0.97	1.02
90 and over	765	688,547	97	103,089	137.83	121,273	0.70	0.85
All	84,592	\$ 60,178,589	2,066	\$ 1,758,562	1,909.87	\$ 1,580,945	1.08	1.11
Years 11 and over:								
Under 50	3,680	\$ 1,634,500	28	\$ 15,045	5 09	\$ 2,315	5.50	6.50
50-59	11,261	5,479,439	91	43,687	47.09	22,838	1.93	1.91
60-69	34,849	18,498,236	455	262,006	338 29	180,856	1.35	1.45
70-79	55,472	35,166,332	1,757	1,123,200	1,409 83	913,149	1.25	1.23
80-89	33,546	24,547,259	2,583	1,892,908	2,499 75	1,843,056	1.03	1.03
90 and over	4,552	3,432,112	836	604,116	852.43	639,429	0.98	0.94
All	143,360	\$ 88,757,878	5,750	\$ 3,940,962	5,152.48	\$ 3,601,643	1.12	1.09
Years 6 and over:								
Under 50	5,460	\$ 2,473,709	30	\$ 17,669	7 40	\$ 3,411	4.05	5.18
50-59	17,524	8,806,123	128	64,663	74 11	37,171	1.73	1.74
60-69	50,458	27,610,994	666	393,035	486 72	268,686	1.37	1.46
70-79	71,180	46,480,091	2,210	1,463,401	1,789 06	1,192,751	1.24	1.23
80-89	40,209	30,399,392	3,041	2,316,555	2,980 31	2,266,595	1.02	1.02
90 and over	5,096	3,899,104	905	679,075	952.21	723,096	0.95	0.94
All	189,927	\$ 119,669,413	6,980	\$ 4,934,418	6,289.81	\$ 4,491,710	1.11	1.10
All years:								
Under 50	7,508	\$ 3,715,934	35	\$ 20,384	10 11	\$ 5,057	3.46	4.03
50-59	24,089	13,113,733	177	109,429	100 95	54,695	1.75	2.00
60-69	63,471	36,518,167	828	503,833	610 57	353,762	1.36	1.42
70-79	83,234	57,019,633	2,515	1,742,830	2,083 15	1,457,243	1.21	1.20
80-89	44,333	34,448,341	3,328	2,615,843	3,267 31	2,551,129	1.02	1.03
90 and over	5,317	4,120,659	933	707,205	990 26	760,702	0.94	0.93
All	227,952	\$ 148,936,467	7,816	\$ 5,699,524	7,062 35	\$ 5,182,588	1.11	1.10

TABLE F
LIFE INCOME SETTLEMENTS
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
EXPECTED DEATHS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
MATURITIES AND SURRENDERS— REFUND PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	12	\$ 10,232	0	\$ 0	0.03	\$ 34	0	0
50-59	158	131,538	2	3,062	1.51	1,323	1.32	2.31
60-69	3,091	3,921,690	48	64,809	52.84	68,502	0.91	0.95
70-79	305	721,311	6	8,758	9.65	22,899	0.62	0.38
80-89	10	30,848	1	2,134	0.69	2,096	1.46	1.02
90 and over	0	0	0	0	0.00	0	0	0
All	3,576	\$ 4,815,619	57	\$ 78,763	64.72	\$ 94,854	0.88	0.83
Year 2:								
Under 50	12	\$ 10,232	0	\$ 0	0.04	\$ 40	0	0
50-59	120	78,064	2	291	1.17	791	1.71	0.37
60-69	3,225	3,898,210	68	75,322	58.67	71,967	1.16	1.05
70-79	377	931,408	24	48,694	12.15	30,651	1.98	1.59
80-89	13	33,580	4	2,628	0.93	2,412	4.30	1.09
90 and over	0	0	0	0	0.00	0	0	0
All	3,747	\$ 4,951,494	98	\$ 126,935	72.96	\$ 105,861	1.34	1.20
Year 3:								
Under 50	11	\$ 9,911	0	\$ 0	0.04	\$ 43	0	0
50-59	86	55,037	4	794	0.87	587	4.60	1.35
60-69	3,205	3,672,661	77	93,912	62.24	72,017	1.24	1.30
70-79	468	934,786	17	32,040	15.09	30,157	1.13	1.06
80-89	14	32,982	0	0	1.04	2,483	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	3,784	\$ 4,705,377	98	\$ 126,746	79.28	\$ 105,287	1.24	1.20
Year 4:								
Under 50	11	\$ 4,601	2	\$ 388	0.04	\$ 18	50.25	21.56
50-59	49	28,024	0	0	0.48	290	0	0
60-69	2,981	3,116,155	75	78,412	61.85	65,116	1.21	1.20
70-79	597	1,119,096	26	50,542	19.50	37,436	1.33	1.35
80-89	16	48,434	0	0	1.27	3,783	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	3,654	\$ 4,316,310	103	\$ 129,342	83.14	\$ 106,643	1.24	1.21
Year 5:								
Under 50	8	\$ 1,618	0	\$ 0	0.03	\$ 5	0	0
50-59	32	17,371	0	0	0.31	162	0	0
60-69	2,662	2,652,027	72	70,922	59.33	59,520	1.21	1.19
70-79	878	1,413,004	32	58,025	29.03	48,762	1.10	1.19
80-89	32	67,530	0	0	2.67	5,351	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	3,612	\$ 4,151,550	104	\$ 128,947	91.37	\$ 113,890	1.14	1.13
Year 6:								
Under 50	5	\$ 1,116	0	\$ 0	0.02	\$ 4	0	0
50-59	14	10,876	4	3,753	0.13	99	30.08	37.91
60-69	779	702,020	24	15,933	15.72	14,292	1.53	1.11
70-79	2,714	3,164,274	111	145,366	78.78	97,119	1.41	1.50
80-89	54	99,201	2	3,916	4.32	7,965	0.46	0.49
90 and over	0	0	0	0	0.00	0	0	0
All	3,566	\$ 3,977,487	141	\$ 168,968	98.97	\$ 119,479	1.42	1.41

TABLE F—Continued
REFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	5	\$ 681	0	\$ 0	0.02	\$ 3	0	0
50-59.....	9	5,311	0	0	0.08	41	0	0
60-69.....	557	456,044	20	17,870	11.48	9,482	1.74	1.88
70-79.....	2,872	3,212,117	137	149,931	90.08	106,037	1.52	1.41
80-89.....	57	114,019	2	5,172	4.91	9,855	0.41	0.52
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	3,500	\$ 3,788,172	159	\$ 172,973	106.57	\$ 125,418	1.49	1.38
Year 8:								
Under 50.....	4	\$ 513	0	\$ 0	0.02	\$ 3	0	0
50-59.....	9	7,754	0	0	0.08	63	0	0
60-69.....	411	308,020	26	13,130	8.58	6,453	3.03	2.03
70-79.....	3,062	3,072,350	139	150,725	102.74	108,092	1.35	1.39
80-89.....	85	179,529	7	20,563	7.03	14,629	1.00	1.41
90 and over.....	1	596	0	0	0.17	100	0	0
All.....	3,572	\$ 3,568,762	172	\$ 184,418	118.62	\$ 129,340	1.45	1.43
Year 9:								
Under 50.....	1	\$ 153	0	\$ 0	0.00	\$ 1	0	0
50-59.....	7	4,077	0	0	0.05	36	0	0
60-69.....	258	180,911	0	0	5.43	3,849	0	0
70-79.....	3,245	2,912,466	136	123,906	116.95	108,489	1.16	1.14
80-89.....	102	202,303	9	26,068	8.03	16,221	1.12	1.61
90 and over.....	6	2,904	0	0	1.01	488	0	0
All.....	3,619	\$ 3,302,814	145	\$ 149,974	131.47	\$ 129,084	1.10	1.16
Year 10:								
Under 50.....	1	\$ 153	0	\$ 0	0.00	\$ 1	0	0
50-59.....	7	10,829	0	0	0.07	119	0	0
60-69.....	254	143,574	8	11,777	5.62	3,160	1.42	3.73
70-79.....	3,647	2,826,180	233	213,680	140.11	111,287	1.66	1.92
80-89.....	88	155,960	6	7,239	6.82	13,515	0.88	0.54
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	3,997	\$ 3,136,696	247	\$ 232,696	152.62	\$ 128,082	1.62	1.82
Year 1-2:								
Under 50.....	24	\$ 20,464	0	\$ 0	0.07	\$ 74	0	0
50-59.....	278	209,602	4	3,353	2.68	2,114	1.49	1.59
60-69.....	6,316	7,819,900	116	140,131	111.51	140,469	1.04	1.00
70-79.....	682	1,652,719	30	57,452	21.80	53,550	1.38	1.07
80-89.....	23	64,428	5	4,762	1.62	4,508	3.09	1.06
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	7,323	\$ 9,767,113	155	\$ 205,698	137.68	\$ 200,715	1.13	1.02
Years 3-5:								
Under 50.....	30	\$ 16,130	2	\$ 388	0.11	\$ 66	18.18	5.88
50-59.....	167	100,432	4	794	1.66	1,039	2.41	0.76
60-69.....	8,848	9,440,843	224	243,246	183.42	196,653	1.22	1.24
70-79.....	1,943	3,466,886	75	140,607	63.62	116,355	1.18	1.21
80-89.....	62	148,946	0	0	4.98	11,617	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	11,050	\$13,173,237	305	\$ 385,035	253.79	\$ 325,730	1.20	1.18

TABLE F - *Continued*
 REFUND PENSION TRUST ISSUES—MALE LIVES—*Continued*

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	54	\$ 36,594	2	\$ 388	0.18	\$ 140	11.11	2.77
50-59	445	310,034	8	4,147	4.34	3,153	1.84	1.32
60-69	15,164	17,260,743	340	383,377	294.93	337,122	1.15	1.14
70-79	2,625	5,119,605	105	198,059	85.42	169,905	1.23	1.17
80-89	85	213,374	5	4,762	6.60	16,125	0.76	0.30
90 and over	0	0	0	0	0.00	0	0	0
All	18,373	\$22,940,350	460	\$ 590,733	391.47	\$ 526,445	1.18	1.12
Years 6-10:								
Under 50	16	\$ 2,616	0	\$ 0	0.06	\$ 12	0	0
50-59	46	38,847	4	3,753	0.41	358	9.76	10.48
60-69	2,259	1,790,569	78	58,710	46.83	37,236	1.67	1.58
70-79	15,540	15,187,387	756	783,608	528.66	531,024	1.43	1.48
80-89	386	751,012	26	62,958	31.11	62,185	0.84	1.01
90 and over	7	3,500	0	0	1.18	588	0	0
All	18,254	\$17,773,941	864	\$ 909,029	608.25	\$ 631,403	1.42	1.44
Years 11-10:								
Under 50	70	\$ 39,210	2	\$ 388	0.24	\$ 152	8.33	2.55
50-59	491	348,881	12	7,900	4.75	3,511	2.53	2.25
60-69	17,423	19,051,312	418	442,087	341.76	374,358	1.22	1.18
70-79	18,165	20,306,092	861	981,667	614.08	700,929	1.40	1.40
80-89	471	964,386	31	67,720	37.71	78,310	0.82	0.86
90 and over	7	3,500	0	0	1.18	588	0	0
All	36,627	\$40,714,281	1,324	\$1,499,762	999.72	\$1,157,848	1.32	1.30
Years 11 and over:								
Under 50	17	\$ 1,912	0	\$ 0	0.06	\$ 7	0	0
50-59	189	21,830	2	104	1.77	213	1.13	0.49
60-69	806	200,373	39	14,010	15.16	3,915	2.57	3.58
70-79	23,463	12,404,193	1,672	850,728	1,085.99	582,619	1.54	1.46
80-89	13,151	8,209,638	1,535	861,911	1,083.03	681,045	1.42	1.27
90 and over	272	244,619	49	44,056	54.37	46,520	0.90	0.95
All	37,898	\$21,082,565	3,297	\$1,770,809	2,240.38	\$1,314,319	1.47	1.35
Years 6 and over:								
Under 50	33	\$ 4,528	0	\$ 0	0.12	\$ 19	0	0
50-59	235	60,677	6	3,857	2.18	571	2.75	6.75
60-69	3,065	1,990,942	117	72,720	61.99	41,151	1.89	1.77
70-79	39,003	27,591,580	2,428	1,634,336	1,614.65	1,113,643	1.50	1.47
80-89	13,537	8,960,650	1,561	924,869	1,114.14	743,230	1.40	1.24
90 and over	279	248,119	49	44,056	55.55	47,108	0.88	0.94
All	56,152	\$38,856,496	4,161	\$2,679,838	2,848.63	\$1,945,722	1.46	1.38
All years:								
Under 50	409	\$ 233,161	2	\$ 607	1.25	\$ 649	1.60	0.94
50-59	996	661,369	15	11,352	8.65	5,714	1.73	1.99
60-69	2,067	1,341,349	42	21,813	36.93	24,126	1.14	0.90
70-79	1,856	1,084,196	92	49,326	72.22	42,221	1.27	1.17
80-89	692	373,870	58	27,025	60.39	32,993	0.96	0.82
90 and over	63	36,776	13	6,593	12.54	7,078	1.04	0.93
All	6,083	\$ 3,730,721	222	\$ 116,716	191.98	\$ 112,781	1.16	1.03

TABLE F—Continued
REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	39	\$ 25,070	0	\$ 0	0.07	\$ 37	0	0
50-59	596	502,237	9	7,218	5.39	4,534	1.67	1.59
60-69	10,802	8,854,660	136	141,183	183.59	152,334	0.74	0.93
70-79	1,367	2,069,601	31	56,215	45.10	70,070	0.69	0.80
80-89	145	274,128	10	15,549	12.30	21,672	0.81	0.72
90 and over	0	0	0	0	0.00	0	0	0
All	12,949	\$ 11,725,696	186	\$ 220,165	246.45	\$ 248,647	0.75	0.89
Year 2:								
Under 50	39	\$ 27,516	1	\$ 333	0.09	\$ 57	11.57	5.84
50-59	487	403,090	6	2,945	4.52	3,807	1.33	0.77
60-69	10,511	8,358,044	177	150,459	190.29	152,336	0.93	0.99
70-79	1,585	2,211,314	53	107,973	53.96	77,625	0.98	1.39
80-89	159	280,448	12	15,159	14.12	23,772	0.85	0.64
90 and over	5	6,664	2	2,465	0.96	1,465	2.09	1.68
All	12,786	\$ 11,287,076	251	\$ 279,334	263.94	\$ 259,062	0.95	1.08
Year 3:								
Under 50	38	\$ 27,952	0	\$ 0	0.09	\$ 63	0	0
50-59	457	335,501	10	5,214	4.49	3,324	2.23	1.57
60-69	10,180	7,663,274	190	136,887	196.76	148,364	0.97	0.92
70-79	1,792	2,317,127	75	100,045	62.46	83,005	1.20	1.21
80-89	176	287,567	26	40,630	15.62	24,747	1.66	1.64
90 and over	11	8,730	5	2,464	2.23	2,012	2.24	1.22
All	12,654	\$ 10,640,151	306	\$ 285,240	281.65	\$ 261,515	1.09	1.09
Year 4:								
Under 50	43	\$ 35,184	0	\$ 0	0.11	\$ 88	0	0
50-59	464	313,429	7	12,645	4.81	3,263	1.46	3.88
60-69	9,870	6,966,526	234	166,480	203.23	143,244	1.15	1.16
70-79	1,929	2,194,107	83	111,926	68.18	79,735	1.22	1.40
80-89	188	237,049	15	16,421	16.80	20,902	0.89	0.79
90 and over	11	10,362	1	167	2.29	2,402	0.44	0.07
All	12,505	\$ 9,756,657	340	\$ 307,639	295.42	\$ 249,634	1.15	1.23
Year 5:								
Under 50	39	\$ 34,423	0	\$ 0	0.11	\$ 97	0	0
50-59	467	294,998	7	2,542	5.12	3,241	1.37	0.78
60-69	8,798	5,966,163	196	111,397	190.79	129,277	1.03	0.86
70-79	2,771	2,603,935	133	153,455	92.66	91,667	1.44	1.67
80-89	241	313,580	32	78,487	20.80	27,118	1.54	2.89
90 and over	18	17,797	2	688	3.44	3,237	0.58	0.21
All	12,334	\$ 9,230,896	370	\$ 346,569	312.92	\$ 254,637	1.18	1.36
Year 6:								
Under 50	17	\$ 12,745	0	\$ 0	0.05	\$ 39	0	0
50-59	106	71,096	0	0	0.96	667	0	0
60-69	3,526	2,324,440	72	54,200	63.17	41,533	1.14	1.30
70-79	8,016	5,756,044	265	192,261	231.31	171,661	1.15	1.12
80-89	287	312,842	24	23,635	23.49	25,193	1.02	0.94
90 and over	20	16,089	5	7,924	3.97	3,135	1.26	2.53
All	11,972	\$ 8,493,256	366	\$ 278,020	322.95	\$ 242,228	1.13	1.15

TABLE F -Continued

REFUND TOTAL NON-PENSION TRUST ISSUES -MALE LIVES-Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 7:								
Under 50	14	\$ 10,226	0	\$ 0	0 04	\$ 28	0	0
50-59	87	58,613	1	1,643	0 80	542	1 24	3.03
60-69	3,351	2,193,932	82	45,968	62 17	40,319	1 32	1.14
70-79	7,915	5,429,077	324	226,319	245 12	172,811	1 32	1.31
80-89	372	349,486	36	24,891	31 27	29,616	1 15	0.84
90 and over	18	12,576	5	3,391	3 65	2,441	1 37	1.39
All	11,757	\$ 8,053,910	448	\$ 302,212	343.05	\$ 245,757	1.31	1.23
Year 8:								
Under 50	9	\$ 7,859	0	\$ 0	0 02	\$ 20	0	0
50-59	88	53,285	1	679	0 83	490	1 21	1.39
60-69	3,290	2,172,103	68	51,378	63 60	41,591	1 07	1.24
70-79	7,551	4,917,881	316	195,191	252 32	168,005	1 25	1.16
80-89	422	425,149	48	60,560	36 10	37,254	1 33	1.63
90 and over	14	11,254	5	2,056	2 98	2,272	1 68	0.90
All	11,374	\$ 7,587,531	438	\$ 309,864	355.85	\$ 249,632	1.23	1.24
Year 9:								
Under 50	12	\$ 5,968	0	\$ 0	0 03	\$ 10	0	0
50-59	80	48,734	1	803	0 79	465	1 26	1.73
60-69	3,079	1,969,311	67	37,045	62 15	39,379	1 08	0.94
70-79	7,261	4,702,023	336	195,872	259 92	171,426	1 29	1.14
80-89	469	425,987	67	68,635	40 03	37,387	1 67	1.84
90 and over	18	14,091	4	4,374	3 52	2,757	1 14	1.59
All	10,919	\$ 7,166,114	475	\$ 306,729	366.44	\$ 251,424	1.30	1.22
Year 10:								
Under 50	18	\$ 8,509	0	\$ 0	0 04	\$ 14	0	0
50-59	72	45,091	1	555	0 70	434	1 44	1.28
60-69	2,867	1,773,088	68	38,945	60 92	37,616	1 12	1.04
70-79	6,908	4,346,590	341	240,589	263.16	168,207	1 30	1.43
80-89	519	382,873	45	31,113	43 24	32,117	1 04	0.97
90 and over	16	14,233	3	2,932	3 08	2,820	0 97	1.04
All	10,400	\$ 6,570,384	458	\$ 314,134	371.14	\$ 241,208	1.23	1.30
Years 1-2:								
Under 50	78	\$ 52,586	1	\$ 333	0 16	\$ 94	6 25	3.54
50-59	1,083	905,327	15	10,163	9 91	8,341	1 51	1.22
60-69	21,313	17,212,704	313	291,642	373 88	304,670	0 84	0.96
70-79	2,952	4,280,915	84	164,188	99 06	147,695	0 85	1.11
80-89	304	554,576	22	30,708	26 42	45,444	0 83	0.68
90 and over	5	6,664	2	2,465	0 96	1,465	2 08	1.68
All	25,735	\$ 23,012,772	437	\$ 499,499	510.39	\$ 507,709	0.86	0.98
Years 3-5:								
Under 50	120	\$ 97,559	0	\$ 0	0 31	\$ 248	0	0
50-59	1,388	943,928	24	20,401	14 42	9,828	1 66	2.08
60-69	28,848	20,595,963	620	414,764	590 78	420,885	1 05	0.99
70-79	6,492	7,115,169	291	365,426	223.30	254,407	1 30	1.44
80-89	605	838,196	73	135,538	53 22	72,767	1 37	1.86
90 and over	40	36,889	8	3,319	7 96	7,651	1 01	0.43
All	37,493	\$ 29,627,704	1,016	\$ 939,448	889.99	\$ 765,786	1.14	1.23

TABLE F—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	198	\$ 150,145	1	\$ 333	0.47	\$ 342	2.13	0.97
50-59.....	2,471	1,849,255	39	30,564	24.33	18,169	1.60	1.68
60-69.....	50,161	37,808,667	933	706,406	964.66	725,555	0.97	0.97
70-79.....	9,444	11,396,084	375	529,614	322.36	402,102	1.16	1.32
80-89.....	909	1,392,772	95	166,246	79.64	118,211	1.19	1.41
90 and over	45	43,553	10	5,784	8.92	9,116	1.12	0.63
All.....	63,228	\$ 52,640,476	1,453	\$ 1,438,947	1,400.38	\$ 1,273,495	1.04	1.13
Years 6-10:								
Under 50...	70	\$ 45,307	0	\$ 0	0.18	\$ 111	0	0
50-59.....	433	276,819	4	3,680	4.08	2,598	0.98	1.42
60-69.....	16,113	10,432,874	357	227,536	312.01	200,438	1.14	1.14
70-79.....	37,651	25,151,615	1,582	1,050,232	1,251.83	852,110	1.26	1.23
80-89.....	2,069	1,896,337	220	208,834	174.13	161,567	1.26	1.29
90 and over	86	68,243	22	20,677	17.20	13,425	1.26	1.54
All.....	56,422	\$ 37,871,195	2,185	\$ 1,510,959	1,759.43	\$ 1,230,249	1.24	1.23
Years 11-10:								
Under 50...	268	\$ 195,452	1	\$ 333	0.65	\$ 453	1.54	0.74
50-59.....	2,904	2,126,074	43	34,244	28.41	20,767	1.51	1.65
60-69.....	66,274	48,241,541	1,290	933,942	1,276.67	925,993	1.01	1.01
70-79.....	47,095	36,547,699	1,957	1,579,846	1,574.19	1,254,212	1.24	1.26
80-89.....	2,978	3,289,109	315	375,080	253.77	279,778	1.24	1.34
90 and over	131	111,796	32	26,461	26.12	22,541	1.23	1.17
All.....	119,650	\$ 90,511,671	3,638	\$ 2,949,906	3,159.81	\$ 2,503,744	1.15	1.18
Years 11 and over:								
Under 50...	365	\$ 162,751	4	\$ 2,957	0.94	\$ 437	4.26	6.77
50-59.....	687	357,769	8	5,421	6.01	3,129	1.33	1.73
60-69.....	7,189	4,046,394	173	102,230	143.00	80,965	1.21	1.26
70-79.....	49,922	31,234,064	2,549	1,578,396	2,129.86	1,339,356	1.20	1.18
80-89.....	30,473	19,831,950	3,215	2,204,860	2,703.83	1,757,713	1.19	1.25
90 and over	2,529	1,419,190	485	294,666	546.06	299,507	0.89	0.98
All.....	91,165	\$ 57,052,118	6,434	\$ 4,188,530	5,529.70	\$ 3,481,107	1.16	1.20
Years 6 and over:								
Under 50...	435	\$ 208,058	4	\$ 2,957	1.12	\$ 548	3.57	5.40
50-59.....	1,120	634,588	12	9,101	10.09	5,727	1.19	1.59
60-69.....	23,302	14,479,268	530	329,766	455.01	281,403	1.16	1.17
70-79.....	87,573	56,385,679	4,131	2,628,628	3,381.69	2,191,466	1.22	1.20
80-89.....	32,542	21,728,287	3,435	2,413,694	2,877.96	1,919,280	1.19	1.26
90 and over	2,615	1,487,433	507	315,343	563.26	312,932	0.90	1.01
All.....	147,587	\$ 94,923,313	8,619	\$ 5,699,489	7,289.13	\$ 4,711,356	1.18	1.21
All years:								
Under 50...	633	\$ 358,203	5	\$ 3,290	1.59	\$ 890	3.14	3.70
50-59.....	3,591	2,483,843	51	39,665	34.42	23,896	1.48	1.66
60-69.....	73,463	52,287,935	1,463	1,036,172	1,419.67	1,006,958	1.03	1.03
70-79.....	97,017	67,781,763	4,506	3,158,242	3,704.05	2,593,568	1.22	1.22
80-89.....	33,451	23,121,059	3,530	2,579,940	2,957.60	2,037,491	1.19	1.27
90 and over	2,660	1,530,986	517	321,127	572.18	322,048	0.90	1.00
All.....	210,815	\$ 147,563,789	10,072	\$ 7,138,436	8,689.51	\$ 5,984,851	1.16	1.19

TABLE F—Continued
MATURITIES AND SURRENDERS—REFUND PENSION TRUST ISSUES—
FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	15	\$ 3,194	0	\$ 0	0.02	\$ 3	0	0
50-59	92	63,827	0	0	0.42	311	0	0
60-69	1,476	1,294,335	2	548	13.39	11,903	0.15	0.05
70-79	129	162,028	4	6,331	2.37	3,047	1.69	2.08
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,712	\$ 1,523,384	6	\$ 6,879	16.20	\$ 15,264	0.37	0.45
Year 2:								
Under 50	13	\$ 2,993	0	\$ 0	0.02	\$ 3	0	0
50-59	65	49,691	0	0	0.31	258	0	0
60-69	1,455	1,199,943	12	9,515	13.85	11,544	0.87	0.82
70-79	158	174,383	3	1,860	2.92	3,195	1.03	0.58
80-89	2	7,852	0	0	0.11	377	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,693	\$ 1,434,862	15	\$ 11,375	17.21	\$ 15,377	0.87	0.74
Year 3:								
Under 50	12	\$ 3,770	0	\$ 0	0.02	\$ 7	0	0
50-59	44	22,351	0	0	0.22	112	0	0
60-69	1,334	1,003,954	20	26,707	13.46	10,134	1.49	2.64
70-79	184	209,942	7	4,615	3.29	3,823	2.13	1.21
80-89	5	20,879	0	0	0.27	1,148	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,579	\$ 1,260,896	27	\$ 31,322	17.26	\$ 15,224	1.56	2.06
Year 4:								
Under 50	11	\$ 1,512	0	\$ 0	0.02	\$ 3	0	0
50-59	16	8,136	0	0	0.08	35	0	0
60-69	1,232	843,871	18	13,868	13.24	9,093	1.36	1.53
70-79	220	192,035	2	262	4.01	3,514	0.50	0.07
80-89	3	18,899	0	0	0.18	1,173	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,482	\$ 1,064,453	20	\$ 14,130	17.53	\$ 13,818	1.14	1.02
Year 5:								
Under 50	9	\$ 1,053	0	\$ 0	0.02	\$ 2	0	0
50-59	17	8,875	0	0	0.09	42	0	0
60-69	1,086	655,978	8	5,525	12.43	7,496	0.64	0.74
70-79	341	260,669	3	2,742	6.09	4,709	0.49	0.58
80-89	2	9,749	0	0	0.12	719	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,455	\$ 936,324	11	\$ 8,267	18.75	\$ 12,968	0.59	0.64
Year 6:								
Under 50	9	\$ 667	0	\$ 0	0.02	\$ 1	0	0
50-59	11	5,455	0	0	0.04	16	0	0
60-69	467	271,737	5	2,623	4.88	2,827	1.03	0.93
70-79	1,049	630,322	17	14,439	16.65	10,148	1.02	1.42
80-89	8	12,407	0	0	0.47	978	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,544	\$ 920,588	22	\$ 17,062	22.06	\$ 13,970	1.00	1.22

TABLE F—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	5	\$ 1,833	0	\$ 0	0.01	\$ 1	0	0
50-59	13	4,966	0	0	0.05	15	0	0
60-69	417	225,549	6	4,127	4.53	2,471	1.32	1.67
70-79	1,068	576,874	22	13,377	18.63	10,226	1.18	1.31
80-89	10	13,366	0	0	0.60	1,136	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,513	\$ 822,588	28	\$ 17,504	23.82	\$ 13,849	1.18	1.26
Year 8:								
Under 50	5	\$ 1,833	0	\$ 0	0.01	\$ 1	0	0
50-59	10	2,457	1	267	0.03	8	29.33	33.38
60-69	312	156,141	2	1,269	3.48	1,770	0.57	0.72
70-79	1,108	570,650	21	11,877	21.11	11,061	0.99	1.07
80-89	17	8,466	0	0	0.97	503	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,452	\$ 739,547	24	\$ 13,413	25.60	\$ 13,343	0.94	1.01
Year 9:								
Under 50	2	\$ 1,624	0	\$ 0	0.00	\$ 1	0	0
50-59	14	4,488	0	0	0.05	19	0	0
60-69	177	79,699	7	1,840	1.92	875	3.65	2.10
70-79	1,078	499,790	19	9,730	22.34	10,541	0.85	0.92
80-89	20	11,980	2	2,070	1.21	717	1.65	2.89
90 and over	0	0	0	0	0.00	0	0	0
All	1,291	\$ 597,581	28	\$ 13,640	25.52	\$ 12,153	1.10	1.12
Year 10:								
Under 50	2	\$ 1,624	0	\$ 0	0.00	\$ 1	0	0
50-59	9	3,062	0	0	0.04	12	0	0
60-69	132	56,689	0	0	1.43	625	0	0
70-79	1,074	450,529	19	5,513	24.32	10,293	0.78	0.54
80-89	36	20,350	0	0	2.02	1,082	0	0
90 and over	1	846	0	0	0.15	129	0	0
All	1,254	\$ 533,100	19	\$ 5,513	27.96	\$ 12,142	0.68	0.45
Years 1-2:								
Under 50	28	\$ 6,187	0	\$ 0	0.04	\$ 6	0	0
50-59	157	113,518	0	0	0.73	569	0	0
60-69	2,931	2,494,278	14	10,063	27.24	23,447	0.51	0.43
70-79	287	336,411	7	8,191	5.29	6,242	1.32	1.31
80-89	2	7,852	0	0	0.11	377	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	3,405	\$ 2,958,246	21	\$ 18,254	33.41	\$ 30,641	0.63	0.60
Years 3-5:								
Under 50	32	\$ 6,335	0	\$ 0	0.06	\$ 12	0	0
50-59	77	39,362	0	0	0.39	189	0	0
60-69	3,652	2,503,803	46	46,100	39.13	26,723	1.18	1.73
70-79	745	662,646	12	7,619	13.39	12,046	0.90	0.63
80-89	10	49,527	0	0	0.57	3,040	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	4,516	\$ 3,261,673	58	\$ 53,718	53.54	\$ 42,010	1.08	1.28

TABLE F—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	60	\$ 12,522	0	\$ 0	0.10	\$ 18	0	0
50-59.....	234	152,880	0	0	1.12	758	0	0
60-69.....	6,583	4,998,081	60	56,163	66.37	50,170	0.90	1.12
70-79.....	1,032	999,057	19	15,810	18.68	18,288	1.02	0.86
80-89.....	12	57,379	0	0	0.68	3,417	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	7,921	\$ 6,219,919	79	\$ 71,973	86.95	\$ 72,651	0.91	0.99
Years 6-10:								
Under 50.....	23	\$ 7,581	0	\$ 0	0.04	\$ 5	0	0
50-59.....	57	20,428	1	267	0.21	70	4.76	3.81
60-69.....	1,505	789,815	20	9,859	16.24	8,568	1.23	1.15
70-79.....	5,377	2,728,165	98	54,936	103.05	52,269	0.95	1.05
80-89.....	91	66,569	2	2,070	5.27	4,416	0.38	0.47
90 and over.....	1	846	0	0	0.15	129	0	0
All.....	7,054	\$ 3,613,404	121	\$ 67,132	124.96	\$ 65,457	0.97	1.03
Years 11-10:								
Under 50.....	83	\$ 20,103	0	\$ 0	0.14	\$ 23	0	0
50-59.....	291	173,308	1	267	1.33	828	0.75	0.32
60-69.....	8,088	5,787,896	80	66,022	82.61	58,738	0.97	1.12
70-79.....	6,409	3,727,222	117	70,746	121.73	70,557	0.96	1.00
80-89.....	103	123,948	2	2,070	5.95	7,833	0.34	0.26
90 and over.....	1	846	0	0	0.15	129	0	0
All.....	14,975	\$ 9,833,323	200	\$139,105	211.91	\$138,108	0.94	1.01
Years 11 and over:								
Under 50.....	5	\$ 1,981	0	\$ 0	0.01	\$ 2	0	0
50-59.....	43	15,145	2	466	0.17	70	12.06	6.66
60-69.....	404	128,347	18	3,451	4.17	1,304	4.32	2.65
70-79.....	5,369	1,909,740	169	59,633	154.07	54,609	1.10	1.09
80-89.....	2,261	916,961	149	53,717	144.10	58,844	1.03	0.91
90 and over.....	35	13,119	6	3,426	5.97	2,356	1.00	1.45
All.....	8,117	\$ 2,985,293	344	\$120,693	308.49	\$117,185	1.12	1.03
Years 6 and over:								
Under 50.....	28	\$ 9,562	0	\$ 0	0.05	\$ 7	0	0
50-59.....	100	35,573	3	733	0.38	140	7.89	5.24
60-69.....	1,909	918,162	38	13,310	20.41	9,872	1.86	1.35
70-79.....	10,746	4,637,905	267	114,569	257.12	106,878	1.04	1.07
80-89.....	2,352	983,530	151	55,787	149.37	63,260	1.01	0.88
90 and over.....	36	13,965	6	3,426	6.12	2,485	0.98	1.38
All.....	15,171	\$ 6,598,697	465	\$187,825	433.45	\$182,642	1.07	1.03
All years:								
Under 50.....	88	\$ 22,084	0	\$ 0	0.15	\$ 25	0	0
50-59.....	334	188,453	3	733	1.50	898	2.00	0.82
60-69.....	8,492	5,916,243	98	69,473	86.78	60,042	1.13	1.16
70-79.....	11,778	5,636,962	286	130,379	275.80	125,166	1.04	1.04
80-89.....	2,364	1,040,909	151	55,787	150.05	66,677	1.01	0.84
90 and over.....	36	13,965	6	3,426	6.12	2,485	0.98	1.38
All.....	23,092	\$12,818,616	544	\$259,798	520.40	\$255,293	1.05	1.02

TABLE F—Continued
REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	77	\$ 52,535	0	\$ 0	0.10	\$ 63	0	0
50-59.....	779	532,995	5	2,319	3.26	2,197	1.53	1.06
60-69.....	8,382	5,974,294	52	34,166	74.71	54,131	0.70	0.63
70-79.....	917	850,368	7	8,452	16.77	15,417	0.42	0.55
80-89.....	87	156,828	1	6,623	5.36	9,593	0.19	0.69
90 and over.....	1	887	0	0	0.15	135	0	0
All.....	10,243	\$ 7,567,907	65	\$ 51,560	100.35	\$ 81,536	0.65	0.63
Year 2:								
Under 50.....	87	\$ 61,016	0	\$ 0	0.11	\$ 73	0	0
50-59.....	697	457,288	3	1,820	2.98	1,943	1.01	0.94
60-69.....	8,400	5,456,251	60	43,950	78.89	51,914	0.76	0.85
70-79.....	1,126	996,799	17	13,894	21.51	19,539	0.79	0.71
80-89.....	106	153,202	4	3,950	7.01	10,023	0.57	0.39
90 and over.....	1	887	0	0	0.17	148	0	0
All.....	10,417	\$ 7,125,443	84	\$ 63,614	110.67	\$ 83,640	0.76	0.76
Year 3:								
Under 50.....	85	\$ 58,528	0	\$ 0	0.11	\$ 75	0	0
50-59.....	733	454,128	4	1,413	3.34	2,064	1.20	0.68
60-69.....	8,060	4,810,820	75	50,812	80.05	48,252	0.94	1.05
70-79.....	1,329	1,066,902	24	33,563	26.12	21,570	0.92	1.56
80-89.....	129	205,714	3	1,078	8.81	14,172	0.34	0.08
90 and over.....	4	3,137	1	887	0.71	533	1.41	1.66
All.....	10,340	\$ 6,599,229	107	\$ 87,753	119.14	\$ 86,666	0.90	1.01
Year 4:								
Under 50.....	90	\$ 53,340	2	\$ 498	0.13	\$ 74	15.80	6.73
50-59.....	719	406,733	3	784	3.60	2,022	0.83	0.39
60-69.....	7,553	4,081,030	89	40,277	79.20	43,075	1.12	0.94
70-79.....	1,488	1,071,078	26	11,194	29.66	21,906	0.88	0.51
80-89.....	118	165,999	7	14,870	8.00	11,215	0.88	1.33
90 and over.....	4	2,504	1	806	0.72	444	1.39	1.82
All.....	9,972	\$ 5,780,684	128	\$ 68,429	121.31	\$ 78,736	1.06	0.87
Year 5:								
Under 50.....	68	\$ 36,193	0	\$ 0	0.09	\$ 47	0	0
50-59.....	692	372,475	4	2,079	3.72	1,990	1.07	1.04
60-69.....	6,755	3,429,731	88	37,052	74.27	37,891	1.18	0.98
70-79.....	2,002	1,309,051	34	23,555	38.16	26,010	0.89	0.91
80-89.....	149	182,912	11	16,049	9.79	13,020	1.12	1.23
90 and over.....	2	435	0	0	0.38	91	0	0
All.....	9,668	\$ 5,330,797	137	\$ 78,735	126.41	\$ 79,049	1.08	1.00
Year 6:								
Under 50.....	60	\$ 32,374	0	\$ 0	0.07	\$ 34	0	0
50-59.....	225	137,241	1	22	0.92	592	1.09	0.04
60-69.....	3,817	1,867,540	46	20,465	35.61	17,454	1.29	1.17
70-79.....	4,865	2,575,389	73	40,797	80.04	43,793	0.91	0.93
80-89.....	196	213,293	11	43,230	12.77	15,329	0.86	2.82
90 and over.....	7	2,038	1	869	1.17	339	0.85	2.56
All.....	9,170	\$ 4,827,875	132	\$ 105,383	130.58	\$ 77,541	1.01	1.36

TABLE F—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	58	\$ 35,492	0	\$ 0	0 07	\$ 38	0	0
50-59	225	124,767	1	784	0 93	527	1 08	1 49
60-69	3,676	1,746,063	38	16,793	35 47	16,794	1 07	1 00
70-79	4,703	2,355,937	77	40,462	84 11	43,316	0 92	0 93
80-89	247	225,603	10	14,470	16 44	15,429	0 61	0 94
90 and over	8	3,103	2	432	1 43	534	1 40	0 81
All	8,917	\$ 4,490,965	128	\$ 72,941	138 45	\$ 76,638	0 92	0 95
Year 8:								
Under 50	63	\$ 40,747	0	\$ 0	0 08	\$ 45	0	0
50-59	216	125,151	1	300	0 91	546	1 10	0 55
60-69	3,607	1,646,199	39	12,386	36 45	16,492	1 07	0 75
70-79	4,625	2,260,893	96	46,908	91 11	45,816	1 05	1 02
80-89	264	215,432	21	15,016	18 09	11,967	1 16	1 00
90 and over	12	6,798	1	116	2 11	1,185	0 47	0 10
All	8,787	\$ 4,295,220	158	\$ 71,726	148 75	\$ 79,653	1 06	0 95
Year 9:								
Under 50	74	\$ 43,747	0	\$ 0	0 09	\$ 46	0	0
50-59	204	117,411	4	2,198	0 91	523	4 42	4 20
60-69	3,479	1,547,778	42	17,213	36 82	16,079	1 14	1 07
70-79	4,593	2,204,475	108	64,020	98 31	48,271	1 10	1 33
80-89	308	239,560	26	13,667	21 66	17,243	1 20	0 79
90 and over	21	16,204	5	4,230	3 92	2,994	1 27	1 41
All	8,679	\$ 4,169,175	185	\$ 101,328	161 71	\$ 85,156	1 14	1 19
Year 10:								
Under 50	86	\$ 46,572	0	\$ 0	0 10	\$ 56	0	0
50-59	208	118,946	3	414	0 97	561	3 11	0 74
60-69	3,508	1,534,633	33	25,209	39 32	16,883	0 84	1 49
70-79	4,565	2,117,201	128	63,561	105 71	49,768	1 21	1 28
80-89	361	268,828	28	25,591	24 37	18,431	1 15	1 39
90 and over	26	23,481	2	336	4 73	4,056	0 42	0 08
All	8,754	\$ 4,109,661	194	\$ 115,111	175 20	\$ 89,755	1 11	1 28
Years 1-2:								
Under 50	104	\$ 113,551	0	\$ 0	0 21	\$ 136	0	0
50-59	1,476	990,283	8	4,139	6 24	4,140	1 28	1 06
60-69	16,782	11,430,545	112	78,116	153 60	106,045	0 73	0 74
70-79	2,043	1,847,167	24	22,346	38 28	34,956	0 63	0 64
80-89	193	310,030	5	10,573	12 37	19,616	0 40	0 54
90 and over	2	1,774	0	0	0 32	283	0	0
All	20,660	\$ 14,693,350	149	\$ 115,174	211 02	\$ 165,176	0 71	0 70
Years 3-5:								
Under 50	243	\$ 148,061	2	\$ 498	0 33	\$ 196	6 06	2 54
50-59	2,144	1,233,336	11	4,276	10 66	6,076	1 03	0 70
60-69	22,368	12,321,581	252	128,141	233 52	129,218	1 08	0 99
70-79	4,819	3,447,031	84	68,312	93 94	69,486	0 89	0 98
80-89	396	554,625	21	31,997	26 60	38,407	0 79	0 83
90 and over	10	6,076	2	1,693	1 81	1,068	1 10	1 59
All	29,980	\$ 17,710,710	372	\$ 234,917	366 86	\$ 244,451	1 01	0 96

TABLE F—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	407	\$ 261,612	2	\$ 498	0.54	\$ 332	3.70	1.50
50-59.....	3,620	2,223,619	19	8,415	16.90	10,216	1.12	0.82
60-69.....	39,150	23,752,126	364	206,257	387.12	235,263	0.94	0.88
70-79.....	6,862	5,294,198	108	90,658	132.22	104,442	0.82	0.87
80-89.....	589	864,655	26	42,570	38.97	58,023	0.67	0.73
90 and over.....	12	7,850	2	1,693	2.13	1,351	0.94	1.25
All.....	50,640	\$ 32,404,060	521	\$ 350,091	577.88	\$ 409,627	0.90	0.85
Years 6-10:								
Under 50.....	341	\$ 198,932	0	\$ 0	0.41	\$ 219	0	0
50-59.....	1,078	623,516	10	3,718	4.64	2,749	2.16	1.35
60-69.....	18,087	8,342,213	198	92,066	183.67	83,702	1.08	1.10
70-79.....	23,351	11,513,895	482	255,748	459.28	230,964	1.05	1.11
80-89.....	1,376	1,162,716	96	111,974	93.33	81,399	1.03	1.38
90 and over.....	74	51,624	11	5,983	13.36	9,110	0.82	0.66
All.....	44,307	\$ 21,892,896	797	\$ 469,489	754.69	\$ 408,143	1.06	1.15
Years 11-10:								
Under 50.....	748	\$ 460,544	2	\$ 498	0.95	\$ 551	2.11	0.90
50-59.....	4,698	2,847,135	29	12,133	21.54	12,965	1.35	0.94
60-69.....	57,237	32,094,339	562	298,323	570.79	318,965	0.98	0.94
70-79.....	30,213	16,808,093	590	346,406	591.50	335,406	1.00	1.03
80-89.....	1,965	2,027,371	122	154,544	132.30	139,422	0.92	1.11
90 and over.....	86	59,474	13	7,676	15.49	10,461	0.84	0.73
All.....	94,947	\$ 54,296,956	1,318	\$ 819,580	1,332.57	\$ 817,770	0.99	1.00
Years 11 and over:								
Under 50.....	954	\$ 487,389	3	\$ 1,307	1.20	\$ 618	2.50	2.11
50-59.....	2,220	1,181,495	14	7,366	9.26	4,883	1.51	1.51
60-69.....	14,259	6,525,353	193	92,178	146.85	66,752	1.31	1.38
70-79.....	64,806	27,251,216	1,797	793,761	1,726.02	726,699	1.04	1.09
80-89.....	44,576	18,706,547	3,385	1,394,334	3,316.22	1,385,254	1.02	1.01
90 and over.....	5,169	2,116,093	978	401,726	943.24	392,128	1.04	1.02
All.....	131,984	\$ 56,268,093	6,370	\$ 2,690,672	6,142.79	\$ 2,576,334	1.04	1.04
Years 6 and over:								
Under 50.....	1,295	\$ 686,321	3	\$ 1,307	1.61	\$ 837	1.86	1.56
50-59.....	3,298	1,805,011	24	11,084	13.90	7,632	1.73	1.45
60-69.....	32,346	14,867,566	391	184,244	330.52	150,454	1.18	1.22
70-79.....	88,157	38,765,111	2,279	1,049,509	2,185.30	957,663	1.04	1.10
80-89.....	45,952	19,869,263	3,481	1,506,308	3,409.55	1,466,653	1.02	1.03
90 and over.....	5,243	2,167,717	989	407,709	956.60	401,238	1.03	1.02
All.....	176,291	\$ 78,160,989	7,167	\$ 3,160,161	6,897.48	\$ 2,984,477	1.04	1.06
All years:								
Under 50.....	1,702	\$ 947,933	5	\$ 1,805	2.15	\$ 1,169	2.33	1.54
50-59.....	6,918	4,028,630	43	19,499	30.80	17,848	1.40	1.09
60-69.....	71,496	38,619,692	755	390,501	717.64	385,717	1.05	1.01
70-79.....	95,019	44,059,309	2,387	1,140,167	2,317.52	1,062,105	1.03	1.07
80-89.....	46,541	20,733,918	3,507	1,548,878	3,448.52	1,524,676	1.02	1.02
90 and over.....	5,255	2,178,567	991	409,402	958.73	402,589	1.03	1.02
All.....	226,931	\$ 110,565,049	7,688	\$ 3,510,252	7,475.36	\$ 3,394,104	1.03	1.03

TABLE G
MATURED DEFERRED ANNUITIES
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
EXPECTED DEATHS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
REFUND PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	15	10,804	0	0	0.15	115	0	0
60-69	987	814,609	19	10,592	17.08	14,148	1.11	0.75
70-79	99	121,698	3	1,656	2.90	3,516	1.03	0.47
80-89	2	4,182	0	0	0.17	385	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,103	\$ 951,293	22	\$ 12,248	20.30	\$ 18,164	1.08	0.67
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	15	8,560	1	1,164	0.15	88	6.78	13.23
60-69	1,000	778,259	20	9,914	18.49	14,314	1.08	0.69
70-79	96	114,024	6	7,542	2.98	3,471	2.01	2.17
80-89	2	4,182	0	0	0.18	423	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,113	\$ 905,025	27	\$ 18,620	21.80	\$ 18,296	1.24	1.02
Year 3:								
Under 50	2	\$ 828	1	\$ 384	0.01	\$ 4	119.05	96.00
50-59	10	3,628	1	1,188	0.10	38	9.83	31.26
60-69	1,057	774,505	32	21,467	21.06	15,269	1.52	1.41
70-79	100	108,708	7	4,627	3.28	3,494	2.14	1.32
80-89	2	4,182	0	0	0.20	465	0	0
90 and over	1	108	0	0	0.21	23	0	0
All	1,172	\$ 891,959	41	\$ 27,666	24.86	\$ 19,293	1.65	1.43
Year 4:								
Under 50	1	\$ 444	0	\$ 0	0.00	\$ 2	0	0
50-59	8	1,672	0	0	0.08	17	0	0
60-69	1,101	784,258	40	45,604	23.60	16,658	1.69	2.74
70-79	95	91,125	5	8,460	3.28	3,215	1.52	2.63
80-89	4	5,075	0	0	0.38	582	0	0
90 and over	1	108	0	0	0.23	25	0	0
All	1,210	\$ 882,682	45	\$ 54,064	27.57	\$ 20,499	1.63	2.64
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	7	2,052	0	0	0.07	20	0	0
60-69	1,072	686,094	47	26,780	24.79	15,712	1.90	1.70
70-79	148	146,984	16	20,879	5.15	4,926	3.11	4.20
80-89	4	4,073	0	0	0.41	551	0	0
90 and over	1	108	0	0	0.26	28	0	0
All	1,232	\$ 839,311	63	\$ 47,659	30.68	\$ 21,287	2.05	2.24
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	768	0	0	0.03	7	0	0
60-69	177	149,042	2	996	3.57	3,104	0.56	0.32
70-79	1,114	684,143	56	32,710	30.67	19,061	1.83	1.72
80-89	16	19,871	0	0	1.18	1,619	0	0
90 and over	1	108	0	0	0.28	31	0	0
All	1,311	\$ 853,932	58	\$ 33,706	35.73	\$ 23,822	1.62	1.41

TABLE G—Continued
REFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	1	444	0	0	0.01	3	0	0
60-69.....	155	115,574	8	3,804	3.16	2,427	2.53	1.57
70-79.....	1,201	741,969	66	31,478	36.20	22,645	1.82	1.39
80-89.....	18	20,099	6	1,195	1.44	1,788	4.17	0.67
90 and over	1	108	0	0	0.31	34	0	0
All.....	1,376	\$ 878,194	80	\$ 36,477	41.12	\$ 26,897	1.95	1.36
Year 8:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	5	948	0	0	0.05	10	0	0
60-69.....	166	107,186	7	1,847	3.39	2,236	2.06	0.83
70-79.....	1,270	815,125	76	70,726	41.08	26,932	1.85	2.63
80-89.....	25	26,229	1	84	2.05	2,383	0.49	0.04
90 and over	0	0	0	0	0.00	0	0	0
All.....	1,466	\$ 949,488	84	\$ 72,657	46.57	\$ 31,561	1.80	2.30
Year 9:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	768	0	0	0.04	8	0	0
60-69.....	258	97,477	16	778	5.18	2,009	3.09	0.39
70-79.....	1,786	966,019	85	57,875	61.39	33,739	1.38	1.72
80-89.....	36	29,977	3	755	2.88	2,842	1.04	0.27
90 and over	1	3,612	0	0	0.23	838	0	0
All.....	2,085	\$ 1,097,853	104	\$ 59,408	69.72	\$ 39,436	1.49	1.51
Year 10:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	2	312	0	0	0.02	4	0	0
60-69.....	419	90,766	24	6,228	8.48	1,904	2.83	3.27
70-79.....	2,846	1,164,569	206	81,715	103.99	43,402	1.98	1.88
80-89.....	50	42,099	9	18,514	4.27	4,127	2.11	4.49
90 and over	1	3,612	1	3,612	0.26	929	3.89	3.89
All.....	3,318	\$ 1,301,358	240	\$ 110,069	117.02	\$ 50,366	2.05	2.19
Years 1-2:								
Under 50...	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	30	19,364	1	1,164	0.30	203	3.33	5.73
60-69.....	1,987	1,592,868	39	20,506	35.57	28,462	1.10	0.72
70-79.....	195	235,722	9	9,198	5.88	6,987	1.53	1.32
80-89.....	4	8,364	0	0	0.35	808	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,216	\$ 1,856,318	49	\$ 30,868	42.10	\$ 36,460	1.16	0.85
Years 3-5:								
Under 50...	3	\$ 1,272	1	\$ 384	0.01	\$ 6	100.00	64.00
50-59.....	25	7,352	1	1,188	0.25	75	4.00	15.84
60-69.....	3,230	2,244,857	119	93,851	69.45	47,639	1.71	1.97
70-79.....	343	346,718	28	33,966	11.71	11,685	2.39	2.91
80-89.....	10	13,330	0	0	0.99	1,598	0	0
90 and over	3	324	0	0	0.70	76	0	0
All.....	3,614	\$ 2,613,952	149	\$ 129,389	83.11	\$ 61,079	1.79	2.12

TABLE G—Continued
REFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	3	\$ 1,272	1	\$ 384	0 01	\$ 6	100 00	64 00
50-59.....	55	26,716	2	2,352	0 55	278	3 64	8 46
60-69.....	5,217	3,837,725	158	114,357	105 02	76,101	1 50	1 50
70-79.....	538	582,539	37	43,164	17 59	18,672	2 10	2 31
80-89.....	14	21,694	0	0	1 34	2,406	0	0
90 and over.....	3	324	0	0	0 70	76	0	0
All.....	5,830	\$ 4,470,270	198	\$ 160,257	125 21	\$ 97,539	1 58	1 64
Years 6-10:								
Under 50.....	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59.....	15	3,240	0	0	0 15	32	0	0
60-69.....	1,175	560,045	57	13,653	23 78	11,680	2 40	1 17
70-79.....	8,217	4,371,825	489	274,504	273 33	145,779	1 79	1 88
80-89.....	145	138,275	19	20,548	11 82	12,759	1 61	1 61
90 and over.....	4	7,440	1	3,612	1 08	1,832	0 93	1 97
All.....	9,556	\$ 5,080,825	566	\$ 312,317	310 16	\$ 172,082	1 82	1 81
Years 11-10:								
Under 50.....	3	\$ 1,272	1	\$ 384	0 01	\$ 6	100 00	64 00
50-59.....	70	29,956	2	2,352	0 70	310	2 86	7 59
60-69.....	6,392	4,397,770	215	128,010	128 80	87,781	1 67	1 46
70-79.....	8,755	4,954,364	526	317,668	290 92	164,451	1 81	1 93
80-89.....	159	159,969	19	20,548	13 16	15,165	1 44	1 35
90 and over.....	7	7,764	1	3,612	1 78	1,908	0 56	1 89
All.....	15,386	\$ 9,551,095	764	\$ 472,574	435 37	\$ 269,621	1 75	1 75
Years 11 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59.....	15	3,240	0	0	0 15	32	0	0
60-69.....	1,137	146,586	34	2,880	24 07	3,082	1 41	0 93
70-79.....	23,533	6,804,549	1,841	553,185	1,092 00	321,955	1 69	1 72
80-89.....	13,914	4,908,945	1,753	597,000	1,187 79	432,429	1 48	1 38
90 and over.....	555	241,007	125	57,133	106 30	45,078	1 18	1 27
All.....	39,139	\$12,101,087	3,753	\$1,210,198	2,410 16	\$ 802,544	1 56	1 51
Years 6 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59.....	15	3,240	0	0	0 15	32	0	0
60-69.....	2,312	706,631	91	16,533	47 85	14,762	1 90	1 12
70-79.....	31,750	11,176,374	2,330	827,689	1,365 33	467,734	1 71	1 77
80-89.....	14,059	5,047,220	1,772	617,548	1,199 61	445,188	1 48	1 39
90 and over.....	559	248,447	126	60,745	107 38	46,910	1 17	1 29
All.....	48,695	\$17,181,912	4,319	\$1,522,515	2,720 32	\$ 974,626	1 59	1 56
All years:								
Under 50.....	3	\$ 1,272	1	\$ 384	0 01	\$ 6	100 00	64 00
50-59.....	70	29,956	2	2,352	0 70	310	2 86	7 59
60-69.....	7,529	4,544,356	249	130,890	152 87	90,863	1 63	1 44
70-79.....	32,288	11,758,913	2,365	870,853	1,382 92	486,406	1 71	1 79
80-89.....	14,073	5,068,914	1,772	617,548	1,200 95	447,594	1 48	1 38
90 and over.....	562	248,771	126	60,745	108 08	46,986	1 17	1 29
All.....	54,525	\$21,652,182	4,517	\$1,682,772	2,845 53	\$1,072,165	1 59	1 57

TABLE G—Continued
REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 1:								
Under 50...	4	\$ 1,961	0	\$ 0	0.01	\$ 5	0	0
50-59.....	68	50,208	0	0	0.59	450	0	0
60-69.....	1,992	1,567,968	25	15,746	35.19	28,076	0.71	0.56
70-79.....	523	801,683	17	24,603	14.99	23,671	1.13	1.04
80-89.....	11	16,376	1	612	0.89	1,311	1.12	0.47
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,598	\$ 2,438,196	43	\$ 40,961	51.67	\$ 53,513	0.83	0.77
Year 2:								
Under 50...	3	\$ 1,635	0	\$ 0	0.01	\$ 6	0	0
50-59.....	62	40,729	0	0	0.54	360	0	0
60-69.....	1,804	1,393,579	40	24,923	33.96	26,334	1.18	0.95
70-79.....	571	837,920	16	20,238	17.40	26,189	0.92	0.77
80-89.....	16	25,232	1	1,620	1.34	2,068	0.75	0.78
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,456	\$ 2,299,095	57	\$ 46,781	53.25	\$ 54,957	1.07	0.85
Year 3:								
Under 50...	6	\$ 5,410	0	\$ 0	0.02	\$ 20	0	0
50-59.....	65	39,668	0	0	0.60	371	0	0
60-69.....	1,712	1,294,981	43	38,706	34.14	25,751	1.26	1.50
70-79.....	617	867,095	22	42,950	19.82	28,670	1.11	1.50
80-89.....	14	27,783	1	612	1.26	2,409	0.80	0.25
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,414	\$ 2,234,937	66	\$ 82,268	55.84	\$ 57,221	1.18	1.44
Year 4:								
Under 50...	5	\$ 4,760	0	\$ 0	0.02	\$ 20	0	0
50-59.....	65	47,376	0	0	0.63	454	0	0
60-69.....	1,733	1,241,211	39	22,570	36.75	26,273	1.06	0.86
70-79.....	721	909,681	35	41,102	24.37	31,738	1.44	1.30
80-89.....	16	40,789	4	19,576	1.52	3,664	2.63	5.34
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,540	\$ 2,243,817	78	\$ 83,248	63.29	\$ 62,149	1.23	1.34
Year 5:								
Under 50...	5	\$ 4,760	0	\$ 0	0.02	\$ 22	0	0
50-59.....	69	47,683	0	0	0.71	487	0	0
60-69.....	1,703	1,227,320	48	46,042	38.24	27,660	1.26	1.66
70-79.....	965	1,080,801	34	42,346	33.76	39,182	1.01	1.08
80-89.....	15	30,536	2	3,168	1.32	2,714	1.51	1.17
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,757	\$ 2,391,100	84	\$ 91,556	74.05	\$ 70,065	1.13	1.31
Year 6:								
Under 50...	4	\$ 6,835	0	\$ 0	0.01	\$ 15	0	0
50-59.....	28	21,344	1	144	0.24	177	4.08	0.81
60-69.....	530	380,985	19	13,601	9.82	7,112	1.93	1.91
70-79.....	2,267	1,990,874	92	58,236	69.24	64,080	1.33	0.91
80-89.....	53	110,928	7	8,921	3.83	8,044	1.83	1.11
90 and over	0	0	0	0	0.00	0	0	0
All.....	2,882	\$ 2,510,966	119	\$ 80,902	83.14	\$ 79,428	1.43	1.02

TABLE G—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50...	3	\$ 5,527	0	\$ 0	0.01	\$ 10	0	0
50-59.....	29	31,488	0	0	0.26	274	0	0
60-69.....	534	375,748	6	4,700	10.19	7,136	0.59	0.66
70-79.....	2,569	2,300,876	84	86,893	84.49	80,244	0.99	1.08
80-89.....	64	150,102	5	2,724	4.67	11,096	1.07	0.25
90 and over	0	0	0	0	0.00	0	0	0
All.....	3,209	\$ 2,863,741	95	\$ 94,317	99.62	\$ 98,760	0.95	0.96
Year 8:								
Under 50...	3	\$ 5,592	0	\$ 0	0.01	\$ 11	0	0
50-59.....	26	49,503	0	0	0.25	484	0	0
60-69.....	601	356,462	19	14,730	11.61	6,955	1.64	2.12
70-79.....	2,834	2,544,213	117	99,881	100.77	95,951	1.16	1.04
80-89.....	90	200,411	5	17,278	6.95	15,563	0.72	1.11
90 and over	0	0	0	0	0.00	0	0	0
All.....	3,554	\$ 3,156,181	141	\$ 131,889	119.59	\$ 118,964	1.18	1.11
Year 9:								
Under 50...	4	\$ 5,930	0	\$ 0	0.01	\$ 14	0	0
50-59.....	31	43,193	4	2,290	0.32	452	12.42	5.07
60-69.....	627	372,881	9	5,568	12.60	7,640	0.71	0.73
70-79.....	3,068	2,683,321	134	97,509	116.94	108,459	1.15	0.90
80-89.....	121	222,033	13	52,559	9.82	18,703	1.32	2.81
90 and over	0	0	0	0	0.00	0	0	0
All.....	3,851	\$ 3,327,358	160	\$ 157,926	139.69	\$ 135,268	1.15	1.17
Year 10:								
Under 50...	4	\$ 5,930	0	\$ 0	0.01	\$ 16	0	0
50-59.....	26	41,976	0	0	0.29	473	0	0
60-69.....	618	353,077	14	4,544	12.94	7,435	1.08	0.61
70-79.....	3,176	2,745,237	161	120,928	129.87	118,584	1.24	1.02
80-89.....	143	214,368	16	41,388	11.42	18,065	1.40	2.29
90 and over	0	0	0	0	0.00	0	0	0
All.....	3,967	\$ 3,360,588	191	\$ 166,860	154.53	\$ 144,573	1.24	1.15
Years 1-2:								
Under 50...	7	\$ 3,596	0	\$ 0	0.02	\$ 11	0	0
50-59.....	130	90,937	0	0	1.13	810	0	0
60-69.....	3,796	2,961,547	65	40,669	69.15	54,410	0.94	0.75
70-79.....	1,094	1,639,603	33	44,841	32.39	49,860	1.02	0.90
80-89.....	27	41,608	2	2,232	2.23	3,379	0.90	0.66
90 and over	0	0	0	0	0.00	0	0	0
All.....	5,054	\$ 4,737,291	100	\$ 87,742	104.92	\$ 108,470	0.95	0.81
Years 3-5:								
Under 50...	16	\$ 14,930	0	\$ 0	0.06	\$ 62	0	0
50-59.....	199	134,727	0	0	1.94	1,312	0	0
60-69.....	5,148	3,763,512	130	107,318	109.13	79,684	1.19	1.35
70-79.....	2,303	2,857,577	91	126,398	77.95	99,590	1.17	1.27
80-89.....	45	99,108	7	23,356	4.10	8,787	1.71	2.66
90 and over	0	0	0	0	0.00	0	0	0
All.....	7,711	\$ 6,869,854	228	\$ 257,072	193.18	\$ 189,435	1.18	1.36

TABLE G—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	23	\$ 18,526	0	\$ 0	0.08	\$ 73	0	0
50-59	329	225,664	0	0	3.07	2,122	0	0
60-69	8,944	6,725,059	195	147,987	178.28	134,094	1.09	1.10
70-79	3,397	4,497,180	124	171,239	110.34	149,450	1.12	1.15
80-89	72	140,716	9	25,588	6.33	12,166	1.42	2.10
90 and over	0	0	0	0	0.00	0	0	0
All	12,765	\$11,607,145	328	\$ 344,814	298.10	\$ 297,905	1.10	1.16
Years 6-10:								
Under 50	18	\$ 29,814	0	\$ 0	0.05	\$ 66	0	0
50-59	140	187,504	5	2,434	1.36	1,860	3.68	1.31
60-69	2,920	1,839,153	67	43,143	57.16	36,278	1.17	1.19
70-79	13,914	12,264,521	588	463,447	501.31	467,318	1.17	0.99
80-89	471	897,842	46	122,870	36.69	71,471	1.25	1.72
90 and over	0	0	0	0	0.00	0	0	0
All	17,463	\$15,218,834	706	\$ 631,894	596.57	\$ 576,993	1.18	1.10
Years 1-10:								
Under 50	41	\$ 48,340	0	\$ 0	0.13	\$ 139	0	0
50-59	469	413,168	5	2,434	4.43	3,982	1.13	0.61
60-69	11,864	8,564,212	262	191,130	235.44	170,372	1.11	1.12
70-79	17,311	16,761,701	712	634,686	611.65	616,768	1.16	1.03
80-89	543	1,038,558	55	148,458	43.02	83,637	1.28	1.78
90 and over	0	0	0	0	0.00	0	0	0
All	30,228	\$26,825,979	1,034	\$ 976,708	894.67	\$ 874,898	1.16	1.12
Years 11 and over:								
Under 50	35	\$ 21,168	0	\$ 0	0.10	\$ 58	0	0
50-59	111	59,723	0	0	0.99	442	0	0
60-69	2,509	1,352,639	61	33,974	50.15	26,609	1.22	1.28
70-79	23,983	16,330,171	1,287	895,372	1,079.15	746,260	1.19	1.20
80-89	23,281	18,175,032	2,657	1,977,429	2,118.75	1,661,207	1.25	1.19
90 and over	2,716	1,763,655	651	380,428	588.51	369,871	1.11	1.03
All	52,635	\$37,693,388	4,656	\$3,287,203	3,837.65	\$2,804,447	1.21	1.17
Years 6 and over:								
Under 50	53	\$ 50,982	0	\$ 0	0.15	\$ 124	0	0
50-59	251	238,227	5	2,434	2.35	2,302	2.13	1.06
60-69	5,429	3,191,792	128	77,117	107.31	62,887	1.19	1.23
70-79	37,897	28,594,692	1,875	1,358,819	1,580.46	1,213,578	1.19	1.12
80-89	23,752	19,072,874	2,703	2,100,299	2,155.44	1,732,678	1.25	1.21
90 and over	2,716	1,763,655	651	380,428	588.51	369,871	1.11	1.03
All	70,098	\$52,912,222	5,362	\$3,919,097	4,434.22	\$3,381,440	1.21	1.16
All years:								
Under 50	76	\$ 69,508	0	\$ 0	0.23	\$ 197	0	0
50-59	580	463,891	5	2,434	5.42	4,424	0.92	0.55
60-69	14,373	9,916,851	323	225,104	285.59	196,981	1.13	1.14
70-79	41,294	33,091,872	1,999	1,530,058	1,690.80	1,363,028	1.18	1.12
80-89	23,824	19,213,590	2,712	2,125,887	2,161.77	1,744,844	1.25	1.22
90 and over	2,716	1,763,655	651	380,428	588.51	369,871	1.11	1.03
All	82,863	\$64,519,367	5,690	\$4,263,911	4,732.32	\$3,679,345	1.20	1.16

TABLE G—Continued
REFUND PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	12	4,564	1	640	0.05	20	18.76	32.00
60-69.....	279	170,878	3	900	2.53	1,553	1.19	0.58
70-79.....	41	28,910	1	138	0.63	430	1.59	0.32
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	332	\$ 204,352	5	\$ 1,678	3.21	\$ 2,003	1.56	0.84
Year 2:								
Under 50.....	0	0	0	0	0.00	0	0	0
50-59.....	11	5,700	0	0	0.05	24	0	0
60-69.....	280	158,885	5	1,056	2.68	1,534	1.12	0.69
70-79.....	52	46,934	0	0	0.96	941	0	0
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	343	\$ 211,519	5	\$ 1,056	3.69	\$ 2,499	0.81	0.42
Year 3:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	8	4,776	5	2,580	0.04	22	137.36	117.27
60-69.....	299	156,600	5	3,450	3.07	1,594	1.63	2.16
70-79.....	63	54,875	1	960	1.22	1,173	0.82	0.82
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	370	\$ 216,251	11	\$ 6,990	4.33	\$ 2,789	2.54	2.51
Year 4:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	2,292	0	0	0.02	12	0	0
60-69.....	333	156,774	10	5,431	3.69	1,728	2.71	3.14
70-79.....	56	41,455	0	0	1.09	840	0	0
80-89.....	4	8,478	4	8,478	0.19	393	21.55	21.57
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	397	\$ 208,999	14	\$ 13,909	4.99	\$ 2,973	2.81	4.68
Year 5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	3	2,100	0	0	0.02	13	0	0
60-69.....	321	143,501	3	1,565	3.84	1,697	0.78	0.92
70-79.....	70	46,547	1	904	1.49	1,000	0.67	0.90
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	394	\$ 192,148	4	\$ 2,469	5.35	\$ 2,710	0.75	0.91
Year 6:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	71	29,188	0	0	0.72	286	0	0
70-79.....	340	155,734	14	7,276	5.38	2,661	2.60	2.73
80-89.....	5	1,698	0	0	0.28	103	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	416	\$ 186,620	14	\$ 7,276	6.38	\$ 3,050	2.19	2.39

TABLE G—Continued

REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	74	26,194	2	228	0.78	277	2.56	0.82
70-79.....	350	157,616	7	5,869	6.05	2,853	1.16	2.06
80-89.....	6	1,782	0	0	0.37	121	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	430	\$ 185,592	9	\$ 6,097	7.20	\$ 3,251	1.25	1.88
Year 8:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	75	24,133	3	936	0.83	267	3.60	3.51
70-79.....	359	143,107	8	2,756	6.82	2,792	1.17	0.99
80-89.....	10	6,400	0	0	0.60	352	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	444	\$ 173,640	11	\$ 3,692	8.25	\$ 3,411	1.33	1.08
Year 9:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	75	22,565	0	0	0.85	250	0	0
70-79.....	411	154,882	17	6,428	8.47	3,262	2.01	1.97
80-89.....	12	4,998	0	0	0.77	311	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	498	\$ 182,445	17	\$ 6,428	10.09	\$ 3,823	1.68	1.68
Year 10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	128	21,758	9	636	1.49	252	6.04	2.52
70-79.....	509	158,879	17	6,475	11.42	3,690	1.49	1.75
80-89.....	11	4,716	0	0	0.60	264	0	0
90 and over.....	1	485	0	0	0.15	74	0	0
All.....	649	\$ 185,838	26	\$ 7,111	13.66	\$ 4,280	1.90	1.66
Years 1-2:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	23	10,264	1	640	0.10	44	10.00	14.55
60-69.....	559	329,763	6	1,956	5.21	3,087	1.15	0.63
70-79.....	93	75,844	1	138	1.59	1,371	0.63	0.10
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	675	\$ 415,871	8	\$ 2,734	6.90	\$ 4,502	1.16	0.61
Years 3-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	15	9,168	5	2,580	0.08	47	62.50	54.89
60-69.....	953	456,875	18	10,446	10.60	5,019	1.70	2.08
70-79.....	189	142,877	2	1,864	3.80	3,013	0.53	0.62
80-89.....	4	8,478	4	8,478	0.19	393	21.05	21.57
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	1,161	\$ 617,398	29	\$ 23,368	14.67	\$ 8,472	1.98	2.76

TABLE G—Continued

REFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	38	19,432	6	3,220	0 18	91	33.33	35.38
60-69	1,512	786,638	24	12,402	15.81	8,106	1.52	1.53
70-79	282	218,721	3	2,002	5.39	4,384	0.56	0.46
80-89	4	8,478	4	8,478	0 19	393	21.05	21.57
90 and over	0	0	0	0	0 00	0	0	0
All	1,836	\$1,033,269	37	\$ 26,102	21.57	\$12,974	1.72	2.01
Years 6-10:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	0	0	0	0	0 00	0	0	0
60-69	423	123,838	14	1,800	4.67	1,332	3.00	1.35
70-79	1,969	770,218	63	28,804	38.14	15,258	1.65	1.89
80-89	44	19,594	0	0	2.62	1,151	0	0
90 and over	1	485	0	0	0 15	74	0	0
All	2,437	\$ 914,135	77	\$ 30,604	45.58	\$17,815	1.69	1.72
Years 1-10:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	38	19,432	6	3,220	0 18	91	33.33	35.38
60-69	1,935	910,476	38	14,202	20.48	9,438	1.86	1.50
70-79	2,251	988,939	66	30,806	43.53	19,642	1.52	1.57
80-89	48	28,072	4	8,478	2.81	1,544	1.42	5.49
90 and over	1	485	0	0	0 15	74	0	0
All	4,273	\$1,947,404	114	\$ 56,706	67.15	\$30,789	1.70	1.84
Years 11 and over:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	12	688	0	0	0 04	2	0	0
60-69	233	28,952	8	372	2.63	319	3.04	1.17
70-79	4,095	860,029	169	36,187	117.26	25,395	1.44	1.42
80-89	2,181	546,007	155	40,441	148.52	38,006	1.04	1.06
90 and over	65	28,464	12	4,386	11.08	4,918	1.08	0.89
All	6,586	\$1,464,140	344	\$ 81,386	279.53	\$68,640	1.23	1.19
Years 6 and over:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	12	688	0	0	0 04	2	0	0
60-69	656	152,790	22	2,172	7.30	1,651	3.01	1.32
70-79	6,064	1,630,247	232	64,991	155.40	40,653	1.49	1.60
80-89	2,225	565,601	155	40,441	151.14	39,157	1.03	1.03
90 and over	66	28,949	12	4,386	11.23	4,992	1.07	0.88
All	9,023	\$2,378,275	421	\$111,990	325.11	\$86,455	1.29	1.30
All years:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	50	20,120	6	3,220	0 22	93	27.27	34.62
60-69	2,168	939,428	46	14,574	23.11	9,757	1.99	1.49
70-79	6,346	1,848,968	235	66,993	160.79	45,037	1.46	1.49
80-89	2,229	574,079	159	48,919	151.33	39,550	1.05	1.24
90 and over	66	28,949	12	4,386	11.23	4,992	1.07	0.88
All	10,859	\$3,411,544	458	\$138,092	346.68	\$99,429	1.32	1.39

TABLE G - Continued
REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	9	\$ 7,716	0	\$ 0	0.01	\$ 10	0	0
50-59	91	88,895	0	0	0.37	327	0	0
60-69	2,910	1,874,090	29	21,071	26.89	17,432	1.08	1.21
70-79	512	457,753	3	1,114	8.13	7,184	0.37	0.16
80-89	16	24,692	1	3,516	0.78	1,188	1.28	2.96
90 and over	0	0	0	0	0.00	0	0	0
All	3,538	\$ 2,453,146	33	\$ 25,701	36.18	\$ 26,141	0.91	0.98
Year 2:								
Under 50	5	\$ 3,679	0	\$ 0	0.01	\$ 5	0	0
50-59	77	77,095	1	4,500	0.33	292	3.02	15.41
60-69	2,671	1,597,232	23	19,397	25.89	15,531	0.89	1.25
70-79	543	473,918	8	4,161	9.27	8,050	0.86	0.52
80-89	22	23,795	0	0	1.17	1,268	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	3,318	\$ 2,175,719	32	\$ 28,058	36.67	\$ 25,146	0.87	1.12
Year 3:								
Under 50	6	\$ 3,379	0	\$ 0	0.01	\$ 4	0	0
50-59	75	58,173	0	0	0.35	263	0	0
60-69	2,622	1,462,057	22	15,631	26.66	14,957	0.83	1.05
70-79	632	503,498	11	9,548	11.61	9,220	0.95	1.04
80-89	22	22,383	1	744	1.30	1,296	0.77	0.57
90 and over	0	0	0	0	0.00	0	0	0
All	3,357	\$ 2,049,490	34	\$ 25,923	39.93	\$ 25,740	0.85	1.01
Year 4:								
Under 50	9	\$ 4,115	0	\$ 0	0.01	\$ 4	0	0
50-59	84	54,029	1	240	0.43	268	2.32	0.90
60-69	2,665	1,372,637	35	16,053	28.33	14,622	1.24	1.10
70-79	784	558,394	13	10,549	15.39	10,878	0.84	0.97
80-89	21	22,183	1	864	1.34	1,349	0.74	0.64
90 and over	0	0	0	0	0.00	0	0	0
All	3,563	\$ 2,011,358	50	\$ 27,706	45.50	\$ 27,121	1.10	1.02
Year 5:								
Under 50	7	\$ 3,599	0	\$ 0	0.01	\$ 4	0	0
50-59	92	51,864	1	326	0.48	266	2.07	1.23
60-69	2,620	1,240,335	31	12,471	28.45	13,477	1.09	0.93
70-79	1,206	772,121	16	8,268	23.69	15,562	0.68	0.53
80-89	24	22,535	2	4,896	1.58	1,479	1.27	3.31
90 and over	0	0	0	0	0.00	0	0	0
All	3,949	\$ 2,090,454	50	\$ 25,961	54.21	\$ 30,788	0.92	0.84
Year 6:								
Under 50	4	\$ 2,383	0	\$ 0	0.00	\$ 2	0	0
50-59	36	22,395	0	0	0.14	87	0	0
60-69	1,779	814,876	19	13,072	17.12	7,857	1.11	1.66
70-79	2,596	1,354,084	40	29,696	46.25	25,433	0.86	1.17
80-89	59	31,237	0	0	3.14	1,656	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	4,474	\$ 2,224,975	59	\$ 42,768	66.65	\$ 35,035	0.89	1.22

TABLE G—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	4	\$ 3,828	0	\$ 0	0.00	\$ 4	0	0
50-59	43	26,464	0	0	0.18	112	0	0
60-69	2,106	942,282	31	12,172	21.14	9,430	1.47	1.29
70-79	2,906	1,482,172	63	32,425	57.27	30,846	1.10	1.05
80-89	88	49,843	1	228	5.00	2,989	0.20	0.08
90 and over	0	0	0	0	0.00	0	0	0
All	5,147	\$ 2,504,589	95	\$ 44,825	83.59	\$ 43,381	1.14	1.03
Year 8:								
Under 50	5	\$ 5,725	0	\$ 0	0.01	\$ 6	0	0
50-59	48	37,451	1	1,041	0.22	178	4.46	5.85
60-69	2,463	1,052,363	33	16,417	26.08	11,108	1.27	1.48
70-79	3,263	1,602,657	80	45,821	71.10	36,776	1.13	1.25
80-89	106	65,570	4	4,071	6.44	4,189	0.62	0.97
90 and over	1	6,492	0	0	0.21	1,351	0	0
All	5,886	\$ 2,770,258	118	\$ 67,350	104.06	\$ 53,608	1.13	1.26
Year 9:								
Under 50	4	\$ 4,033	0	\$ 0	0.01	\$ 4	0	0
50-59	49	36,167	2	300	0.27	198	7.50	1.52
60-69	2,661	1,094,152	30	12,729	30.95	12,359	1.00	1.03
70-79	3,584	1,720,994	86	37,208	84.78	42,472	1.01	0.88
80-89	139	84,777	5	1,932	8.70	5,441	0.58	0.36
90 and over	1	6,492	0	0	0.22	1,428	0	0
All	6,438	\$ 2,946,615	123	\$ 52,169	124.03	\$ 61,902	0.99	0.84
Year 10:								
Under 50	6	\$ 8,353	0	\$ 0	0.01	\$ 11	0	0
50-59	51	40,757	1	480	0.30	227	3.38	2.11
60-69	2,796	1,105,596	35	13,469	34.00	13,456	1.03	1.00
70-79	3,969	1,864,250	128	63,020	100.90	49,318	1.27	1.28
80-89	171	103,035	18	11,390	10.73	6,719	1.68	1.70
90 and over	1	6,492	0	0	0.23	1,500	0	0
All	6,994	\$ 3,128,483	182	\$ 88,359	146.17	\$ 71,231	1.25	1.24
Years 1-2:								
Under 50	14	\$ 11,395	0	\$ 0	0.02	\$ 15	0	0
50-59	168	165,990	1	4,500	0.70	619	1.43	7.27
60-69	5,581	3,471,322	52	40,468	52.78	32,963	0.99	1.23
70-79	1,055	931,671	11	5,275	17.40	15,234	0.63	0.35
80-89	38	48,487	1	3,516	1.95	2,456	0.51	1.43
90 and over	0	0	0	0	0.00	0	0	0
All	6,856	\$ 4,628,865	65	\$ 53,759	72.85	\$ 51,287	0.89	1.05
Years 3-5:								
Under 50	22	\$ 11,093	0	\$ 0	0.03	\$ 12	0	0
50-59	251	164,066	2	566	1.26	797	1.59	0.71
60-69	7,907	4,075,029	88	44,155	83.44	43,056	1.05	1.03
70-79	2,622	1,834,013	40	28,365	50.69	35,660	0.79	0.80
80-89	67	67,101	4	6,504	4.22	4,124	0.95	1.58
90 and over	0	0	0	0	0.00	0	0	0
All	10,869	\$ 6,151,302	134	\$ 79,590	139.64	\$ 83,649	0.96	0.95

TABLE G—Continued

REFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	36	\$ 22,488	0	\$ 0	0.05	\$ 27	0	0
50-59.....	419	330,056	3	5,066	1.96	1,416	1.53	3.58
60-69.....	13,488	7,546,351	140	84,623	136.22	76,019	1.03	1.11
70-79.....	3,677	2,765,684	51	33,640	68.09	50,894	0.75	0.66
80-89.....	105	115,588	5	10,020	6.17	6,580	0.81	1.52
90 and over	0	0	0	0	0.00	0	0	0
All.....	17,725	\$10,780,167	199	\$ 133,349	212.49	\$ 134,936	0.94	0.99
Years 6-10:								
Under 50...	23	\$ 24,322	0	\$ 0	0.03	\$ 27	0	0
50-59.....	227	163,234	4	1,821	1.11	802	3.60	2.27
60-69.....	11,805	5,009,269	148	67,859	128.39	54,210	1.15	1.25
70-79.....	10,318	8,024,157	397	208,170	360.30	184,845	1.10	1.13
80-89.....	363	334,462	28	17,621	34.01	20,994	0.82	0.84
90 and over	3	19,476	0	0	0.66	4,279	0	0
All.....	28,939	\$13,574,920	577	\$ 295,471	524.50	\$ 265,157	1.10	1.11
Years 11-10:								
Under 50...	59	\$ 46,810	0	\$ 0	0.08	\$ 54	0	0
50-59.....	646	493,290	7	6,887	3.07	2,218	2.28	3.11
60-69.....	25,293	12,555,620	288	152,482	264.61	130,229	1.09	1.17
70-79.....	19,995	10,789,841	448	241,810	428.39	235,739	1.05	1.03
80-89.....	668	450,050	33	27,641	40.18	27,574	0.82	1.00
90 and over	3	19,476	0	0	0.66	4,279	0	0
All.....	46,664	\$24,355,087	776	\$ 428,820	736.99	\$ 400,093	1.05	1.07
Years 11 and over:								
Under 50...	223	\$ 115,981	1	\$ 412	0.29	\$ 166	3.41	2.48
50-59.....	372	203,168	0	0	1.58	850	0	0
60-69.....	4,796	1,918,055	68	21,680	50.69	19,945	1.34	1.09
70-79.....	65,816	25,090,667	2,111	753,146	1,814.51	692,424	1.16	1.09
80-89.....	68,782	24,591,850	5,737	1,964,793	5,316.55	1,862,375	1.08	1.05
90 and over	11,788	3,400,998	2,325	634,652	2,188.90	627,086	1.06	1.01
All.....	151,777	\$5,320,719	10,242	\$3,374,683	9,372.52	\$3,202,846	1.09	1.05
Years 6 and over:								
Under 50...	246	\$ 140,303	1	\$ 412	0.32	\$ 193	3.13	2.13
50-59.....	599	366,402	4	1,821	2.69	1,652	1.49	1.10
60-69.....	16,601	6,927,324	216	89,539	179.08	74,155	1.21	1.21
70-79.....	82,134	33,114,824	2,508	961,316	2,174.81	877,269	1.15	1.10
80-89.....	69,345	24,926,312	5,765	1,982,414	5,350.56	1,883,369	1.08	1.05
90 and over	11,791	3,420,474	2,325	634,652	2,189.56	631,365	1.06	1.01
All.....	180,716	\$68,895,639	10,819	\$3,670,154	9,897.02	\$3,468,003	1.09	1.06
All years:								
Under 50...	282	\$ 162,791	1	\$ 412	0.37	\$ 220	2.70	1.87
50-59.....	1,018	696,458	7	6,887	4.65	3,068	1.51	2.24
60-69.....	30,089	14,473,675	356	174,162	315.30	150,174	1.13	1.16
70-79.....	85,811	35,880,508	2,559	994,956	2,242.90	928,163	1.14	1.07
80-89.....	69,450	25,041,900	5,770	1,992,434	5,356.73	1,889,949	1.08	1.05
90 and over	11,791	3,420,474	2,325	634,652	2,189.56	631,365	1.06	1.01
All.....	198,441	\$79,675,806	11,018	\$3,803,503	10,109.51	\$3,602,939	1.09	1.06

TABLE G—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	1,540	0	0	0.03	16	0	0
60-69	48	21,078	3	3,002	0.83	379	3.60	7.92
70-79	1	240	0	0	0.03	6	0	0
80-89	1	25	0	0	0.06	2	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	53	\$ 22,883	3	\$ 3,002	0.95	\$ 403	3.16	7.45
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	612	0	0	0.01	7	0	0
60-69	51	17,502	0	0	0.91	316	0	0
70-79	4	9,471	0	0	0.12	315	0	0
80-89	1	25	0	0	0.07	2	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	57	\$ 27,610	0	\$ 0	1.11	\$ 640	0	0
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	48	16,562	0	0	0.91	315	0	0
70-79	4	10,647	0	0	0.13	381	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	52	\$ 27,209	0	\$ 0	1.04	\$ 696	0	0
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	51	23,306	1	228	1.04	488	0.96	0.47
70-79	5	11,139	1	497	0.17	429	5.82	1.16
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	56	\$ 34,445	2	\$ 725	1.21	\$ 917	1.65	0.79
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	56	22,018	1	120	1.26	496	0.79	0.24
70-79	11	13,826	0	0	0.42	569	0	0
80-89	4	1,046	1	277	0.33	89	3.04	3.11
90 and over	0	0	0	0	0.00	0	0	0
All	71	\$ 36,890	2	\$ 397	2.01	\$ 1,154	1.00	0.34
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	10	2,732	0	0	0.19	50	0	0
70-79	47	34,141	1	3,888	1.38	1,182	0.73	3.29
80-89	5	1,143	1	302	0.40	97	2.47	3.11
90 and over	0	0	0	0	0.00	0	0	0
All	62	\$ 38,016	2	\$ 4,190	1.97	\$ 1,329	1.02	3.15

TABLE G—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	5	1,256	0	0	0.10	22	0	0
70-79	45	25,445	1	192	1.39	829	0.72	0.23
80-89	4	841	2	374	0.32	70	6.23	5.34
90 and over	0	0	0	0	0.00	0	0	0
All	54	\$ 27,542	3	\$ 566	1.81	\$ 921	1.66	0.61
Year 8:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	5	1,481	1	405	0.10	29	9.82	13.97
70-79	42	25,749	1	756	1.40	912	0.71	0.83
80-89	3	733	0	0	0.26	64	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	50	\$ 27,963	2	\$ 1,161	1.76	\$ 1,005	1.14	1.16
Year 9:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	5	1,256	0	0	0.11	25	0	0
70-79	41	20,553	0	0	1.50	824	0	0
80-89	3	733	0	0	0.29	71	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	49	\$ 22,542	0	\$ 0	1.90	\$ 920	0	0
Year 10:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	1	204	0	0	0.02	4	0	0
70-79	63	19,404	3	116	2.07	777	1.45	0.15
80-89	1	1,680	0	0	0.08	143	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	65	\$ 21,288	3	\$ 116	2.17	\$ 924	1.38	0.13
Years 1-2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	4	2,152	0	0	0.04	23	0	0
60-69	99	38,580	3	3,002	1.74	695	1.72	4.32
70-79	5	9,711	0	0	0.15	321	0	0
80-89	2	50	0	0	0.13	4	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	110	\$ 50,493	3	\$ 3,002	2.06	\$ 1,043	1.46	2.88
Years 3-5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	155	61,886	2	348	3.21	1,299	0.62	0.27
70-79	20	35,612	1	497	0.72	1,379	1.39	0.36
80-89	4	1,046	1	277	0.33	89	3.03	3.11
90 and over	0	0	0	0	0.00	0	0	0
All	179	\$ 98,544	4	\$ 1,122	4.26	\$ 2,767	0.94	0.41

TABLE G—Continued
NONREFUND PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	2,152	0	0	0.04	23	0	0
60-69.....	254	100,466	5	3,350	4.95	1,994	1.01	1.68
70-79.....	25	45,323	1	497	0.87	1,700	1.15	0.29
80-89.....	6	1,096	1	277	0.46	93	2.17	2.98
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	289	\$149,037	7	\$ 4,124	6.32	\$ 3,810	1.11	1.08
Years 6-10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	26	6,929	1	405	0.52	130	1.92	3.12
70-79.....	238	125,292	6	4,952	7.74	4,524	0.78	1.09
80-89.....	16	5,130	3	676	1.35	445	2.22	1.52
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	280	\$137,351	10	\$ 6,033	9.61	\$ 5,099	1.04	1.18
Years 11-10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	4	2,152	0	0	0.04	23	0	0
60-69.....	280	107,395	6	3,755	5.47	2,124	1.10	1.77
70-79.....	263	170,615	7	5,449	8.61	6,224	0.81	0.88
80-89.....	22	6,226	4	953	1.81	538	2.21	1.77
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	569	\$286,388	17	\$10,157	15.93	\$ 8,909	1.07	1.14
Years 11 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	15	660	0	0	0.13	5	0	0
60-69.....	15	2,016	1	120	0.33	44	3.06	2.73
70-79.....	700	182,499	66	14,704	29.99	7,862	2.20	1.87
80-89.....	288	128,861	57	10,636	25.41	14,049	2.24	0.76
90 and over.....	36	21,316	5	2,228	7.09	3,717	0.71	0.60
All.....	1,054	\$335,352	129	\$27,688	62.95	\$25,677	2.05	1.08
Years 6 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	15	660	0	0	0.13	5	0	0
60-69.....	41	8,945	2	525	0.85	174	2.35	3.02
70-79.....	938	307,791	72	19,656	37.73	12,386	1.91	1.59
80-89.....	304	133,991	60	11,312	26.76	14,494	2.24	0.78
90 and over.....	36	21,316	5	2,228	7.09	3,717	0.71	0.60
All.....	1,334	\$472,703	139	\$33,721	72.56	\$30,776	1.92	1.10
All years:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	19	2,812	0	0	0.17	28	0	0
60-69.....	295	109,411	7	3,875	5.80	2,168	1.21	1.79
70-79.....	963	353,114	73	20,153	38.60	14,086	1.89	1.43
80-89.....	310	135,087	61	11,589	27.22	14,587	2.24	0.79
90 and over.....	36	21,316	5	2,228	7.09	3,717	0.71	0.60
All.....	1,623	\$621,740	146	\$37,845	78.88	\$34,586	1.85	1.09

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 1:								
Under 50...	1	\$ 533	0	\$ 0	0.00	\$ 1	0	0
50-59.....	14	19,546	0	0	0.12	169	0	0
60-69.....	236	258,927	6	3,423	4.13	4,536	1.45	0.75
70-79.....	59	78,624	0	0	1.61	2,132	0	0
80-89.....	2	1,536	0	0	0.17	121	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	312	\$ 359,166	6	\$ 3,423	6.03	\$ 6,959	1.00	0.49
Year 2:								
Under 50...	1	\$ 533	0	\$ 0	0.00	\$ 1	0	0
50-59.....	12	9,068	0	0	0.11	86	0	0
60-69.....	259	262,644	13	5,219	4.86	4,898	2.67	1.07
70-79.....	65	88,633	1	1,008	1.97	2,666	0.51	0.38
80-89.....	2	1,536	0	0	0.18	132	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	339	\$ 362,414	14	\$ 6,227	7.12	\$ 7,783	1.97	0.80
Year 3:								
Under 50...	2	\$ 3,643	0	\$ 0	0.00	\$ 5	0	0
50-59.....	8	4,146	0	0	0.08	43	0	0
60-69.....	337	240,364	9	4,209	6.74	4,803	1.34	0.88
70-79.....	94	127,952	2	2,357	3.00	4,097	0.67	0.58
80-89.....	2	2,832	1	960	0.16	220	6.44	4.36
90 and over	0	0	0	0	0.00	0	0	0
All.....	443	\$ 378,937	12	\$ 7,526	9.98	\$ 9,168	1.20	0.82
Year 4:								
Under 50...	2	\$ 3,643	0	\$ 0	0.00	\$ 5	0	0
50-59.....	10	4,562	0	0	0.10	48	0	0
60-69.....	445	296,414	11	5,499	9.56	6,385	1.15	0.86
70-79.....	115	163,466	2	7,675	3.90	5,559	0.51	1.38
80-89.....	1	1,872	0	0	0.08	159	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	573	\$ 469,957	13	\$ 13,174	13.64	\$ 12,156	0.95	1.08
Year 5:								
Under 50...	1	\$ 3,110	0	\$ 0	0.00	\$ 4	0	0
50-59.....	9	4,045	0	0	0.10	44	0	0
60-69.....	493	315,862	7	6,661	11.31	7,277	0.62	0.92
70-79.....	182	212,998	0	0	5.96	7,164	0	0
80-89.....	2	3,177	0	0	0.16	258	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	687	\$ 539,192	7	\$ 6,661	17.53	\$ 14,747	0.40	0.45
Year 6:								
Under 50...	2	\$ 3,410	0	\$ 0	0.00	\$ 5	0	0
50-59.....	3	1,788	0	0	0.03	17	0	0
60-69.....	123	58,019	8	3,424	2.49	1,178	3.21	2.91
70-79.....	680	545,505	27	19,526	19.54	16,683	1.38	1.17
80-89.....	4	7,671	0	0	0.30	574	0	0
90 and over	0	0	0	0	0.00	0	0	0
All.....	812	\$ 616,393	35	\$ 22,950	22.36	\$ 18,457	1.57	1.24

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	2	\$ 3,410	0	\$ 0	0 00	\$ 5	0	0
50-59.....	5	2,664	0	0	0 05	27	0	0
60-69.....	101	51,470	5	744	1 93	1,006	2 59	0 74
70-79.....	798	581,509	25	22,573	24 67	19,178	1 01	1 18
80-89.....	2	3,177	0	0	0 19	310	0	0
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	908	\$ 642,230	30	\$ 23,317	26 84	\$ 20,526	1 12	1 14
Year 8:								
Under 50.....	1	\$ 300	0	\$ 0	0 00	\$ 0	0	0
50-59.....	2	1,392	0	0	0 02	14	0	0
60-69.....	124	53,875	4	432	2 50	1,081	1 60	0 40
70-79.....	821	608,189	21	31,499	27 35	21,419	0 77	1 47
80-89.....	1	852	0	0	0 06	55	0	0
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	949	\$ 664,608	25	\$ 31,931	29 93	\$ 22,569	0 84	1 41
Year 9:								
Under 50.....	1	\$ 300	0	\$ 0	0 00	\$ 0	0	0
50-59.....	3	1,672	0	0	0 03	18	0	0
60-69.....	103	47,587	2	600	2 14	974	0 93	0 62
70-79.....	850	613,494	22	35,531	30 52	23,097	0 72	1 54
80-89.....	2	1,164	0	0	0 14	80	0	0
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	959	\$ 664,217	24	\$ 36,131	32 83	\$ 24,169	0 73	1 49
Year 10:								
Under 50.....	1	\$ 300	0	\$ 0	0 00	\$ 0	0	0
50-59.....	4	2,721	0	0	0 05	31	0	0
60-69.....	88	45,981	1	360	1 82	970	0 55	0 37
70-79.....	883	598,834	31	26,494	33 99	24,006	0 91	1 10
80-89.....	5	4,415	1	1,783	0 34	298	2 92	5 98
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	981	\$ 652,251	33	\$ 28,637	36 20	\$ 25,305	0 91	1 13
Years 1-2:								
Under 50.....	2	\$ 1,066	0	\$ 0	0 00	\$ 2	0	0
50-59.....	26	28,614	0	0	0 23	255	0	0
60-69.....	495	521,571	19	8,642	8 99	9,434	2 11	0 92
70-79.....	124	167,257	1	1,008	3 58	4,798	0 28	0 21
80-89.....	4	3,072	0	0	0 35	253	0	0
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	651	\$ 721,580	20	\$ 9,650	13 15	\$ 14,742	1 52	0 65
Years 3-5:								
Under 50.....	5	\$ 10,396	0	\$ 0	0 00	\$ 14	0	0
50-59.....	27	12,753	0	0	0 28	135	0	0
60-69.....	1,275	852,640	27	16,369	27 61	18,465	0 98	0 89
70-79.....	391	504,416	4	10,032	12 86	16,820	0 31	0 60
80-89.....	5	7,881	1	960	0 40	637	2 50	1 51
90 and over.....	0	0	0	0	0 00	0	0	0
All.....	1,703	\$ 1,388,086	32	\$ 27,361	41 15	\$ 36,071	0 78	0 76

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	7	\$ 11,462	0	\$ 0	0 00	\$ 16	0	0
50-59	53	41,367	0	0	0 51	390	0	0
60-69	1,770	1,374,211	46	25,011	36 60	27,899	1 26	0 90
70-79	515	671,673	5	11,040	16 44	21,618	0 30	0 51
80-89	9	10,953	1	960	0 75	890	1 33	1 08
90 and over	0	0	0	0	0 00	0	0	0
All	2,354	\$ 2,109,666	52	\$ 37,011	54 30	\$ 50,813	0 96	0 73
Years 6-10:								
Under 50	7	\$ 7,720	0	\$ 0	0 00	\$ 10	0	0
50-59	17	10,237	0	0	0 18	107	0	0
60-69	539	256,932	20	5,560	10 88	5,209	1 84	1 07
70-79	4,032	2,947,531	126	135,623	136 07	104,383	0 93	1 30
80-89	14	17,279	1	1,783	1 03	1,317	0 97	1 35
90 and over	0	0	0	0	0 00	0	0	0
All	4,609	\$ 3,239,699	147	\$142,966	148 16	\$111,026	0 99	1 29
Years 1-10:								
Under 50	14	\$ 19,182	0	\$ 0	0 00	\$ 26	0	0
50-59	70	51,604	0	0	0 69	497	0	0
60-69	2,309	1,631,143	66	30,571	47 48	33,108	1 39	0 92
70-79	4,547	3,619,204	131	146,663	152 51	126,001	0 86	1 16
80-89	23	28,232	2	2,743	1 78	2,207	1 12	1 24
90 and over	0	0	0	0	0 00	0	0	0
All	6,963	\$ 5,349,365	199	\$179,977	202 46	\$161,839	0 98	1 11
Years 11 and over:								
Under 50	5	\$ 3,248	0	\$ 0	0 02	\$ 14	0	0
50-59	17	9,286	0	0	0 13	68	0	0
60-69	394	135,659	6	1,809	7 58	2,680	0 79	0 68
70-79	4,792	2,707,504	256	154,217	220 40	124,977	1 16	1 23
80-89	4,882	3,025,894	572	322,995	445 31	272,259	1 28	1 19
90 and over	698	\$ 314,454	144	69,259	148 79	68,157	0 97	1 02
All	10,788	\$ 6,196,045	978	\$548,280	822 23	\$468,155	1 19	1 17
Years 6 and over:								
Under 50	12	\$ 10,968	0	\$ 0	0 02	\$ 24	0	0
50-59	34	19,523	0	0	0 31	175	0	0
60-69	933	392,591	26	7,369	18 46	7,889	1 41	0 93
70-79	8,824	5,655,035	382	289,840	356 47	229,360	1 07	1 26
80-89	4,896	3,043,173	573	324,778	446 34	273,576	1 28	1 19
90 and over	698	314,454	144	69,259	148 79	68,157	0 97	1 02
All	15,397	\$ 9,435,744	1,125	\$691,246	970 39	\$579,181	1 16	1 19
All years:								
Under 50	19	\$ 22,430	0	\$ 0	0 02	\$ 40	0	0
50-59	87	60,890	0	0	0 82	565	0	0
60-69	2,703	1,766,802	72	32,380	55 06	35,788	1 31	0 90
70-79	9,339	6,326,708	387	300,880	372 91	250,978	1 04	1 20
80-89	4,905	3,054,126	574	325,738	447 09	274,466	1 28	1 19
90 and over	698	314,454	144	69,259	148 79	68,157	0 97	1 02
All	17,751	\$11,545,410	1,177	\$728,257	1,024 69	\$629,994	1 15	1 16

TABLE G—Continued
NONREFUND PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	548	0	0	0.02	3	0	0
60-69	34	24,791	0	0	0.32	228	0	0
70-79	4	3,270	0	0	0.06	46	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	41	\$ 28,609	0	\$ 0	0.40	\$ 277	0	0
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	2	380	0	0	0.01	2	0	0
60-69	42	27,223	0	0	0.41	263	0	0
70-79	5	4,710	0	0	0.08	71	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	49	\$ 32,313	0	\$ 0	0.50	\$ 336	0	0
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	46	25,166	1	1,404	0.47	254	2 11	5 53
70-79	7	8,220	0	0	0.11	125	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	53	\$ 33,386	1	\$ 1,404	0.58	379	1 72	3 70
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	44	20,390	0	0	0.49	221	0	0
70-79	6	6,576	0	0	0.10	109	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	50	\$ 26,966	0	\$ 0	0.59	\$ 330	0	0
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	30	16,335	0	0	0.37	203	0	0
70-79	6	6,588	0	0	0.10	110	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	36	\$ 22,923	0	\$ 0	0.47	\$ 313	0	0
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	4	1,210	0	0	0.04	14	0	0
70-79	39	23,257	0	0	0.58	356	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	43	\$ 24,467	0	\$ 0	0.62	\$ 370	0	0

TABLE G—Continued
NONREFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	2	598	0	0	0.02	6	0	0
70-79	42	23,508	1	202	0.72	410	1.38	0.49
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	44	\$ 24,106	1	\$ 202	0.74	\$ 416	1.35	0.49
Year 8:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	3	654	1	322	0.03	7	29.85	46.00
70-79	39	19,237	0	0	0.72	354	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	42	\$ 19,891	1	\$ 322	0.75	\$ 361	1.33	0.89
Year 9:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	1	264	0	0	0.01	3	0	0
70-79	44	19,941	3	747	0.90	410	3.34	1.82
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	45	\$ 20,205	3	\$ 747	0.91	\$ 413	3.30	1.81
Year 10:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	0	0	0	0	0.00	0	0	0
70-79	40	11,718	1	276	0.87	258	1.15	1.07
80-89	1	192	0	0	0.05	9	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	41	\$ 11,910	1	\$ 276	0.92	\$ 267	1.09	1.03
Years 1-2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	5	928	0	0	0.03	5	0	0
60-69	76	52,014	0	0	0.73	491	0	0
70-79	9	7,980	0	0	0.14	117	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	90	\$ 60,922	0	\$ 0	0.90	\$ 613	0	0
Years 3-5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	120	61,891	1	1,404	1.33	678	0.75	2.07
70-79	19	21,384	0	0	0.31	344	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	139	\$ 83,275	1	\$ 1,404	1.64	\$ 1,022	0.61	1.37

TABLE G--Continued
NONREFUND PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	5	928	0	0	0.03	5	0	0
60-69.....	196	113,905	1	1,404	2.06	1,169	0.49	1.20
70-79.....	28	29,364	0	0	0.45	461	0	0
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	229	\$144,197	1	\$ 1,404	2.54	\$ 1,635	0.39	0.86
Years 6-10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	10	2,726	1	322	0.10	30	10.00	10.73
70-79.....	204	97,661	5	1,225	3.79	1,788	1.32	0.69
80-89.....	1	192	0	0	0.05	9	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	215	\$100,579	6	\$ 1,547	3.94	\$ 1,827	1.52	0.85
Years 1-10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	5	928	0	5	0.03	5	0	0
60-69.....	206	116,631	2	1,726	2.16	1,199	0.93	1.44
70-79.....	232	127,025	5	1,225	4.24	2,249	1.18	0.54
80-89.....	1	192	0	0	0.05	9	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	444	\$244,776	7	\$ 2,951	6.48	\$ 3,462	1.08	0.85
Years 11 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	5	576	0	0	0.06	8	0	0
70-79.....	382	85,913	13	4,344	10.77	2,446	1.21	1.78
80-89.....	244	57,264	25	4,418	17.51	4,394	1.43	1.01
90 and over.....	12	8,076	3	2,160	2.56	1,687	1.17	1.28
All.....	643	\$151,829	41	\$10,922	30.90	\$ 8,535	1.33	1.28
Years 6 and over:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	15	3,302	1	322	0.16	38	6.25	8.47
70-79.....	586	183,574	18	5,569	14.56	4,234	1.24	1.32
80-89.....	245	57,456	25	4,418	17.56	4,403	1.42	1.00
90 and over.....	12	8,076	3	2,160	2.56	1,687	1.17	1.28
All.....	858	\$252,408	47	\$12,469	34.84	\$10,362	1.35	1.20
All years:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	5	928	0	0	0.03	5	0	0
60-69.....	211	117,207	2	1,726	2.22	1,207	0.90	1.43
70-79.....	614	212,938	18	5,569	15.01	4,695	1.20	1.19
80-89.....	245	57,456	25	4,418	17.56	4,403	1.42	1.00
90 and over.....	12	8,076	3	2,160	2.56	1,687	1.17	1.28
All.....	1,087	\$390,605	48	\$13,873	37.38	\$11,997	1.28	1.16

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	4	\$ 2,504	0	\$ 0	0.00	\$ 2	0	0
50-59	7	2,596	0	0	0.04	13	0	0
60-69	456	273,595	3	2,047	3.99	2,423	0.75	0.84
70-79	73	73,579	3	4,059	1.08	1,099	2.78	3.69
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	540	\$ 352,274	6	\$ 6,106	5.11	\$ 3,537	1.17	1.73
Year 2:								
Under 50	2	\$ 717	0	\$ 0	0.00	\$ 1	0	0
50-59	6	3,957	0	0	0.02	20	0	0
60-69	566	322,917	2	673	5.11	3,002	0.39	0.22
70-79	94	74,951	1	504	1.48	1,167	0.68	0.43
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	668	\$ 402,542	3	\$ 1,177	6.61	\$ 4,190	0.45	0.28
Year 3:								
Under 50	1	\$ 177	0	\$ 0	0.00	\$ 0	0	0
50-59	7	2,754	0	0	0.03	14	0	0
60-69	791	407,281	11	5,528	7.41	3,922	1.48	1.41
70-79	146	124,983	3	3,629	2.50	2,165	1.20	1.68
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	945	\$ 535,195	14	\$ 9,157	9.94	\$ 6,101	1.41	1.50
Year 4:								
Under 50	1	\$ 177	0	\$ 0	0.00	\$ 0	0	0
50-59	8	3,693	0	0	0.04	18	0	0
60-69	991	475,214	16	5,959	9.71	4,796	1.65	1.24
70-79	220	177,042	2	1,977	4.09	3,355	0.49	0.59
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,220	\$ 656,126	18	\$ 7,936	13.84	\$ 8,169	1.30	0.97
Year 5:								
Under 50	1	\$ 60	0	\$ 0	0.00	\$ 0	0	0
50-59	14	6,556	0	0	0.08	35	0	0
60-69	1,201	540,914	7	3,799	12.17	5,640	0.58	0.67
70-79	357	256,800	8	8,554	6.88	5,104	1.16	1.68
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,573	\$ 804,330	15	\$ 12,353	19.13	\$ 10,779	0.78	1.15
Year 6:								
Under 50	1	\$ 60	0	\$ 0	0.00	\$ 0	0	0
50-59	6	3,221	0	0	0.03	17	0	0
60-69	1,096	442,143	9	4,919	10.54	4,307	0.85	1.14
70-79	827	508,016	10	10,363	14.79	9,384	0.68	1.10
80-89	5	6,960	0	0	0.23	323	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,935	\$ 960,400	19	\$ 15,282	25.59	\$ 14,031	0.74	1.09

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	1	\$ 60	0	\$ 0	0 00	\$ 0	0	0
50-59	5	2,704	0	0	0 03	15	0	0
60-69	1,323	524,209	18	6,294	13.34	5,323	1.35	1.18
70-79	1,017	599,523	20	12,934	20.03	12,231	1.00	1.06
80-89	11	13,200	2	576	0 55	685	3.62	0.84
90 and over	0	0	0	0	0 00	0	0	0
All	2,357	\$ 1,139,696	40	\$ 19,804	33.95	\$ 18,254	1.18	1.08
Year 8:								
Under 50	1	\$ 60	0	\$ 0	0 00	\$ 0	0	0
50-59	10	2,603	0	0	0 05	14	0	0
60-69	1,519	574,109	18	6,326	16.22	6,159	1.11	1.03
70-79	1,138	657,456	35	23,957	24.83	14,889	1.41	1.61
80-89	11	10,210	0	0	0 60	582	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	2,679	\$ 1,244,138	53	\$ 30,283	41.70	\$ 21,644	1.27	1.40
Year 9:								
Under 50	1	\$ 60	0	\$ 0	0 00	\$ 0	0	0
50-59	8	1,476	0	0	0 04	9	0	0
60-69	1,613	602,843	19	7,294	18.49	6,907	1.03	1.06
70-79	1,284	709,112	39	23,919	30.42	17,415	1.28	1.37
80-89	15	12,718	0	0	0 91	789	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	2,921	\$ 1,326,209	58	\$ 31,213	49.86	\$ 25,120	1.16	1.24
Year 10:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	7	1,092	0	0	0 04	7	0	0
60-69	1,667	603,864	18	8,028	20.74	7,504	0.87	1.07
70-79	1,430	745,326	25	17,537	35.80	19,370	0.70	0.91
80-89	24	16,979	0	0	1 41	1,042	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	3,128	\$ 1,367,261	43	\$ 25,565	57.99	\$ 27,923	0.74	0.92
Years 1-2:								
Under 50	6	\$ 3,221	0	\$ 0	0 00	\$ 3	0	0
50-59	13	6,553	0	0	0 06	33	0	0
60-69	1,022	596,512	5	2,720	9 10	5,425	0.55	0.50
70-79	167	148,530	4	4,563	2 56	2,266	1.56	2.01
80-89	0	0	0	0	0 00	0	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	1,208	\$ 754,816	9	\$ 7,283	11.72	\$ 7,727	0.77	0.94
Years 3-5:								
Under 50	3	\$ 414	0	\$ 0	0 00	\$ 0	0	0
50-59	29	13,003	0	0	0 15	67	0	0
60-69	2,983	1,423,409	34	15,286	29.29	14,358	1.16	1.06
70-79	723	558,825	13	14,160	13.47	10,624	0.97	1.33
80-89	0	0	0	0	0 00	0	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	3,738	\$ 1,995,651	47	\$ 29,446	42.91	\$ 25,049	1.10	1.18

TABLE G—Continued

NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	9	\$ 3,635	0	\$ 0	0.00	\$ 3	0	0
50-59.....	42	19,556	0	0	0.21	100	0	0
60-69.....	4,005	2,019,921	39	18,006	38.39	19,783	1.02	0.91
70-79.....	890	707,355	17	18,723	16.03	12,890	1.06	1.45
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	4,946	\$ 2,750,467	56	\$ 36,729	54.63	\$ 32,776	1.03	1.12
Years 6-10:								
Under 50.....	4	\$ 240	0	\$ 0	0.00	\$ 0	0	0
50-59.....	36	11,096	0	0	0.19	62	0	0
60-69.....	7,218	2,747,168	82	32,861	79.33	30,200	1.03	1.09
70-79.....	5,696	3,219,433	129	88,710	125.87	73,289	1.02	1.21
80-89.....	66	60,067	2	576	3.70	3,421	0.54	0.17
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	13,020	\$ 6,038,004	213	\$ 122,147	209.09	\$ 106,972	1.02	1.14
Years 11-10:								
Under 50.....	13	\$ 3,875	0	\$ 0	0.00	\$ 3	0	0
50-59.....	78	30,652	0	0	0.40	162	0	0
60-69.....	11,223	4,767,089	121	50,867	117.72	49,983	1.03	1.02
70-79.....	6,586	3,926,788	146	107,433	141.90	86,179	1.03	1.25
80-89.....	66	60,067	2	576	3.70	3,421	0.54	0.17
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	17,966	\$ 8,788,471	269	\$ 158,876	263.72	\$ 139,748	1.02	1.14
Years 11 and over:								
Under 50.....	69	\$ 280,101	0	\$ 0	0.08	\$ 69	0	0
50-59.....	44	22,549	2	319	0.19	83	10.57	3.84
60-69.....	949	305,077	12	6,642	10.22	3,286	1.17	2.02
70-79.....	30,803	11,129,274	979	345,716	835.60	302,306	1.17	1.14
80-89.....	30,298	9,907,207	2,491	803,207	2,347.53	746,263	1.06	1.08
90 and over.....	5,339	1,351,543	1,089	267,552	979.62	247,369	1.11	1.08
All.....	67,502	\$22,995,751	4,573	\$1,423,436	4,173.24	\$1,299,376	1.10	1.10
Years 6 and over:								
Under 50.....	73	\$ 280,341	0	\$ 0	0.08	\$ 69	0	0
50-59.....	80	33,645	2	319	0.38	145	5.26	2.20
60-69.....	8,167	3,052,245	94	39,503	89.55	33,486	1.05	1.18
70-79.....	36,499	14,348,707	1,108	434,426	961.47	375,595	1.15	1.16
80-89.....	30,364	9,967,274	2,493	803,783	2,351.23	749,684	1.06	1.07
90 and over.....	5,339	1,351,543	1,089	267,552	979.62	247,369	1.11	1.08
All.....	80,522	\$29,033,755	4,786	\$1,545,583	4,382.33	\$1,406,348	1.09	1.10
All years:								
Under 50.....	82	\$ 283,976	0	\$ 0	0.08	\$ 72	0	0
50-59.....	122	53,201	2	319	0.59	245	3.39	1.30
60-69.....	12,172	5,072,166	133	57,509	127.94	53,269	1.04	1.08
70-79.....	37,389	15,056,062	1,125	453,149	977.50	388,485	1.15	1.17
80-89.....	30,364	9,967,274	2,493	803,783	2,351.23	749,684	1.06	1.07
90 and over.....	5,339	1,351,543	1,089	267,552	979.62	247,369	1.11	1.08
All.....	85,468	\$31,784,222	4,842	\$1,582,312	4,436.96	\$1,439,124	1.09	1.10

TABLE H
LIFE INCOME SETTLEMENTS
ISSUES OF 1931-75
EXPERIENCE BETWEEN 1971 AND 1976 ANNIVERSARIES
EXPECTED DEATHS ON 1971 INDIVIDUAL ANNUITY MORTALITY TABLE
DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	2,365	0	0	0.01	14	0	0
60-69	5	2,712	0	0	0.10	49	0	0
70-79	4	4,304	0	0	0.15	160	0	0
80-89	1	912	0	0	0.08	71	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	11	\$ 10,293	0	\$ 0	0.34	\$ 294	0	0
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	2	4,729	0	0	0.01	30	0	0
60-69	3	2,386	0	0	0.06	47	0	0
70-79	6	5,095	0	0	0.23	207	0	0
80-89	1	912	0	0	0.08	77	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	12	\$ 13,122	0	\$ 0	0.38	\$ 361	0	0
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	4	5,633	0	0	0.03	41	0	0
60-69	5	3,193	0	0	0.10	64	0	0
70-79	6	5,726	0	0	0.28	257	0	0
80-89	1	912	0	0	0.09	85	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	16	\$ 15,464	0	\$ 0	0.50	\$ 447	0	0
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	3,268	0	0	0.03	25	0	0
60-69	5	3,416	0	0	0.10	71	0	0
70-79	8	6,147	1	245	0.36	295	2 81	0 83
80-89	1	912	0	0	0.10	93	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	17	\$ 13,743	1	\$ 245	0.59	\$ 484	1 69	0 51
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	2	3,085	0	0	0.02	26	0	0
60-69	9	7,492	1	1,547	0.18	159	5 60	9 73
70-79	8	4,859	1	684	0.33	187	3 03	3 66
80-89	2	1,490	1	912	0.18	139	5 67	6 56
90 and over	0	0	0	0	0.00	0	0	0
All	21	\$ 16,926	3	\$ 3,143	0.71	\$ 511	4 23	6 15
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	2	3,085	0	0	0.02	28	0	0
60-69	8	7,697	0	0	0.14	136	0	0
70-79	7	6,450	0	0	0.23	203	0	0
80-89	2	2,760	0	0	0.14	206	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	19	\$ 19,992	0	\$ 0	0.53	\$ 573	0	0

TABLE H—Continued

DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	721	0	0	0.01	7	0	0
60-69	10	7,085	0	0	0.18	126	0	0
70-79	7	6,943	0	0	0.22	206	0	0
80-89	2	2,760	0	0	0.16	225	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	20	\$ 17,509	0	\$ 0	0.57	\$ 564	0	0
Year 8:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	6	4,927	0	0	0.11	83	0	0
70-79	10	8,575	0	0	0.31	264	0	0
80-89	1	2,069	0	0	0.09	192	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	17	\$ 15,571	0	\$ 0	0.51	\$ 539	0	0
Year 9:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	6	4,927	0	0	0.12	88	0	0
70-79	10	8,910	0	0	0.34	297	0	0
80-89	3	2,705	0	0	0.24	252	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	19	\$ 16,542	0	\$ 0	0.70	\$ 637	0	0
Year 10:								
Under 50	1	\$ 153	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	5	3,912	0	0	0.10	72	0	0
70-79	8	4,994	0	0	0.30	179	0	0
80-89	5	3,425	0	0	0.40	328	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	19	\$ 12,484	0	\$ 0	0.80	\$ 579	0	0
Years 1-2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	7,094	0	0	0.02	44	0	0
60-69	8	5,098	0	0	0.16	96	0	0
70-79	10	9,399	0	0	0.38	367	0	0
80-89	2	1,824	0	0	0.16	148	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	23	\$ 23,415	0	\$ 0	0.72	\$ 655	0	0
Years 3-5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	11,986	0	0	0.08	92	0	0
60-69	10	14,101	1	1,547	0.38	294	2.63	5.26
70-79	22	16,732	2	929	0.97	739	2.06	1.26
80-89	4	3,314	1	912	0.37	317	2.70	2.88
90 and over	0	0	0	0	0.00	0	0	0
All	54	\$ 46,133	4	\$ 3,388	1.80	\$ 1,442	2.22	2.35

TABLE H—Continued

DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	12	19,080	0	0	0.10	136	0	0
60-69.....	27	19,199	1	1,547	0.54	390	1.85	3.97
70-79.....	32	26,131	2	929	1.35	1,106	1.48	0.84
80-89.....	6	5,138	1	912	0.53	465	1.89	1.96
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	77	\$ 69,548	4	\$ 3,388	2.52	\$ 2,097	1.59	1.62
Years 6-10:								
Under 50.....	1	\$ 153	0	\$ 0	0.00	\$ 0	0	0
50-59.....	3	3,806	0	0	0.03	35	0	0
60-69.....	35	28,548	0	0	0.65	505	0	0
70-79.....	42	35,872	0	0	1.40	1,149	0	0
80-89.....	13	13,719	0	0	1.03	1,203	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	94	\$ 82,098	0	\$ 0	3.11	\$ 2,892	0	0
Years 1-10:								
Under 50.....	1	\$ 153	0	\$ 0	0.00	\$ 0	0	0
50-59.....	15	22,886	0	0	0.13	171	0	0
60-69.....	62	47,747	1	1,547	1.19	895	0.84	1.73
70-79.....	74	62,003	2	929	2.75	2,255	0.73	0.41
80-89.....	19	18,857	1	912	1.56	1,668	0.64	0.55
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	171	\$151,646	4	\$ 3,388	5.63	\$ 4,989	0.71	0.68
Years 11 and over:								
Under 50.....	10	\$ 4,510	1	\$ 665	0.03	\$ 13	36.36	51.15
50-59.....	36	13,381	1	228	0.33	122	3.07	1.87
60-69.....	98	36,331	3	919	1.75	662	1.71	1.39
70-79.....	300	215,414	19	18,973	12.50	8,987	1.52	2.11
80-89.....	217	143,372	17	12,154	20.01	13,409	0.85	0.91
90 and over.....	17	9,219	3	1,888	3.66	1,938	0.82	0.97
All.....	678	\$422,227	44	\$34,827	38.28	\$25,131	1.15	1.39
Years 6 and over:								
Under 50.....	11	\$ 4,663	1	\$ 665	0.03	\$ 13	33.33	51.15
50-59.....	39	17,187	1	228	0.36	157	2.78	1.45
60-69.....	133	64,879	3	919	2.40	1,167	1.25	0.79
70-79.....	342	251,286	19	18,973	13.90	10,136	1.37	1.87
80-89.....	230	157,091	17	12,154	21.04	14,612	0.81	0.83
90 and over.....	17	9,219	3	1,888	3.66	1,938	0.82	0.97
All.....	772	\$504,325	44	\$34,827	41.39	\$28,023	1.06	1.24
All years:								
Under 50.....	11	\$ 4,663	1	\$ 665	0.03	\$ 13	33.33	51.15
50-59.....	51	36,267	1	228	0.46	293	2.17	0.78
60-69.....	160	84,078	4	2,466	2.94	1,557	1.36	1.58
70-79.....	374	277,417	21	19,902	15.25	11,242	1.38	1.77
80-89.....	236	162,229	18	13,066	21.57	15,077	0.83	0.87
90 and over.....	17	9,219	3	1,888	3.66	1,938	0.82	0.97
All.....	849	\$573,873	48	\$38,215	43.91	\$30,120	1.09	1.27

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	7	\$ 4,459	0	\$ 0	0.01	\$ 2	0	0
50-59	1	975	0	0	0.01	8	0	0
60-69	5	3,970	0	0	0.08	70	0	0
70-79	15	12,755	2	1,051	0.64	410	3.14	2.56
80-89	1	205	1	205	0.10	21	9.83	9.76
90 and over	0	0	0	0	0.00	0	0	0
All	29	\$ 22,364	3	\$ 1,256	0.84	\$ 511	3.57	2.46
Year 2:								
Under 50	6	\$ 4,442	0	\$ 0	0.01	\$ 3	0	0
50-59	1	17	0	0	0.01	0	0	0
60-69	5	2,962	0	0	0.10	63	0	0
70-79	14	12,793	1	64	0.61	444	1.63	0.14
80-89	1	156	0	0	0.06	10	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	27	\$ 20,370	1	\$ 64	0.79	\$ 520	1.27	0.12
Year 3:								
Under 50	4	\$ 3,348	0	\$ 0	0.00	\$ 2	0	0
50-59	4	492	0	0	0.03	3	0	0
60-69	5	1,285	0	0	0.09	22	0	0
70-79	4	2,720	0	0	0.12	80	0	0
80-89	3	2,349	1	300	0.19	152	5.16	1.97
90 and over	0	0	0	0	0.00	0	0	0
All	20	\$ 10,192	1	\$ 300	0.43	\$ 259	2.33	1.16
Year 4:								
Under 50	3	\$ 2,197	0	\$ 0	0.00	\$ 2	0	0
50-59	5	1,531	0	0	0.04	15	0	0
60-69	5	1,283	0	0	0.10	23	0	0
70-79	3	1,399	0	0	0.11	51	0	0
80-89	2	2,049	0	0	0.14	146	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	18	\$ 8,459	0	\$ 0	0.39	\$ 237	0	0
Year 5:								
Under 50	2	\$ 1,518	0	\$ 0	0.00	\$ 2	0	0
50-59	5	1,531	0	0	0.04	16	0	0
60-69	2	785	0	0	0.04	14	0	0
70-79	4	1,445	1	80	0.13	55	7.60	1.45
80-89	3	4,410	0	0	0.23	343	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	16	\$ 9,689	1	\$ 80	0.44	\$ 430	2.27	0.19
Year 6:								
Under 50	1	\$ 348	0	\$ 0	0.00	\$ 1	0	0
50-59	4	1,000	0	0	0.03	8	0	0
60-69	4	3,520	0	0	0.07	61	0	0
70-79	3	1,365	0	0	0.12	59	0	0
80-89	5	6,810	0	0	0.50	670	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	17	\$ 13,043	0	\$ 0	0.72	\$ 799	0	0

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	1	\$ 348	0	\$ 0	0.00	\$ 1	0	0
50-59	4	1,000	0	0	0.04	8	0	0
60-69	4	3,386	0	0	0.07	61	0	0
70-79	1	253	0	0	0.03	7	0	0
80-89	4	6,210	0	0	0.46	681	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	14	\$ 11,197	0	\$ 0	0.60	\$ 758	0	0
Year 8:								
Under 50	1	\$ 371	0	\$ 0	0.00	\$ 1	0	0
50-59	3	1,657	0	0	0.03	16	0	0
60-69	3	3,201	0	0	0.05	62	0	0
70-79	1	253	0	0	0.03	7	0	0
80-89	3	4,761	0	0	0.40	603	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	11	\$ 10,243	0	\$ 0	0.51	\$ 689	0	0
Year 9:								
Under 50	3	\$ 512	0	\$ 0	0.01	\$ 1	0	0
50-59	4	3,093	0	0	0.03	26	0	0
60-69	2	2,283	0	0	0.04	52	0	0
70-79	3	2,067	0	0	0.10	72	0	0
80-89	1	2,361	0	0	0.11	264	0	0
90 and over	2	2,400	0	0	0.34	403	0	0
All	15	\$ 12,716	0	\$ 0	0.63	\$ 818	0	0
Year 10:								
Under 50	3	\$ 512	0	\$ 0	0.01	\$ 2	0	0
50-59	6	3,561	0	0	0.05	33	0	0
60-69	2	1,392	0	0	0.05	32	0	0
70-79	5	6,586	0	0	0.17	225	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	2	2,400	0	0	0.37	449	0	0
All	18	\$ 14,451	0	\$ 0	0.65	\$ 741	0	0
Years 1-2:								
Under 50	13	\$ 8,901	0	\$ 0	0.02	\$ 5	0	0
50-59	2	992	0	0	0.02	8	0	0
60-69	10	6,932	0	0	0.18	133	0	0
70-79	29	25,548	3	1,115	1.25	854	2.40	1.31
80-89	2	361	1	205	0.16	31	6.25	6.61
90 and over	0	0	0	0	0.00	0	0	0
All	56	\$ 42,734	4	\$ 1,320	1.63	\$ 1,031	2.45	1.28
Years 3-5:								
Under 50	9	\$ 7,063	0	\$ 0	0.00	\$ 6	0	0
50-59	14	3,554	0	0	0.11	34	0	0
60-69	12	3,351	0	0	0.23	59	0	0
70-79	11	5,564	1	80	0.36	186	2.78	0.43
80-89	8	8,808	1	300	0.56	641	1.79	0.47
90 and over	0	0	0	0	0.00	0	0	0
All	54	\$ 28,340	2	\$ 380	1.26	\$ 926	1.59	0.41

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	22	\$ 15,964	0	\$ 0	0 02	\$ 11	0	0
50-59	16	4,546	0	0	0 13	42	0	0
60-69	22	10,283	0	0	0 41	192	0	0
70-79	40	31,112	4	1,195	1 61	1,040	2 48	1 15
80-89	10	9,169	2	505	0 72	672	2 78	0 75
90 and over	0	0	0	0	0 00	0	0	0
All	110	\$ 71,074	6	\$ 1,700	2 89	\$ 1,957	2 08	0 87
Years 6-10:								
Under 50	9	\$ 2,091	0	\$ 0	0 02	\$ 6	0	0
50-59	21	10,311	0	0	0 18	91	0	0
60-69	15	13,782	0	0	0 28	268	0	0
70-79	13	10,524	0	0	0 45	370	0	0
80-89	13	20,142	0	0	1 47	2,218	0	0
90 and over	4	4,800	0	0	0 71	852	0	0
All	75	\$ 61,650	0	\$ 0	3 11	\$ 3,805	0	0
Years 1-10:								
Under 50	31	\$ 18,055	0	\$ 0	0 04	\$ 17	0	0
50-59	37	14,857	0	0	0 31	133	0	0
60-69	37	24,065	0	0	0 69	460	0	0
70-79	53	41,636	4	1,195	2 06	1,410	1 94	0 85
80-89	23	29,311	2	505	2 19	2,890	0 91	0 17
90 and over	4	4,800	0	0	0 71	852	0	0
All	185	\$132,724	6	\$ 1,700	6 00	\$ 5,762	1 00	0 30
Years 11 and over:								
Under 50	247	\$ 84,952	1	\$ 106	0 64	\$ 208	1 56	0 51
50-59	261	123,863	5	2,929	2 16	1,038	2 32	2 82
60-69	240	115,097	3	349	4 05	1,931	0 74	0 18
70-79	149	113,644	6	4,289	5 54	4,387	1 08	0 98
80-89	86	36,959	4	2,352	7 83	3,337	0 51	0 70
90 and over	20	9,164	2	92	4 06	1,847	0 49	0 05
All	1,003	\$483,679	21	\$10,117	24 28	\$12,748	0 86	0 79
Years 6 and over:								
Under 50	256	\$ 87,043	1	\$ 106	0 66	\$ 214	1 52	0 50
50-59	282	134,174	5	2,929	2 34	1,129	2 14	2 59
60-69	255	128,879	3	349	4 33	2,199	0 69	0 16
70-79	162	124,168	6	4,289	5 99	4,757	1 00	0 90
80-89	99	57,101	4	2,352	9 30	5,555	0 43	0 42
90 and over	24	13,964	2	92	4 77	2,699	0 42	0 03
All	1,078	\$545,329	21	\$10,117	27 39	\$16,553	0 77	0 61
All years:								
Under 50	278	\$103,007	1	\$ 106	0 68	\$ 225	1 47	0 47
50-59	298	138,720	5	2,929	2 47	1,171	2 02	2 50
60-69	277	139,162	3	349	4 74	2,391	0 63	0 15
70-79	202	155,280	10	5,484	7 60	5,797	1 32	0 95
80-89	109	66,270	6	2,857	10 02	6,227	0 60	0 46
90 and over	24	13,964	2	92	4 77	2,699	0 42	0 03
All	1,188	\$616,403	27	\$11,817	30 28	\$18,510	0 89	0 64

TABLE H—Continued

DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	6	\$ 6,014	0	\$ 0	0.01	\$ 8	0	0
50-59	11	17,880	0	0	0.06	99	0	0
60-69	50	61,265	0	0	0.47	575	0	0
70-79	47	49,990	0	0	1.01	1,159	0	0
80-89	5	6,132	0	0	0.29	373	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	119	\$ 141,281	0	\$ 0	1.84	\$ 2,214	0	0
Year 2:								
Under 50	6	\$ 6,014	0	\$ 0	0.01	\$ 8	0	0
50-59	13	13,643	0	0	0.07	78	0	0
60-69	52	61,885	2	8,277	0.50	584	3.96	14.17
70-79	55	54,486	0	0	1.38	1,370	0	0
80-89	5	4,340	0	0	0.33	303	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	131	\$ 140,368	2	\$ 8,277	2.29	\$ 2,343	0.87	3.53
Year 3:								
Under 50	2	\$ 3,432	0	\$ 0	0.00	\$ 7	0	0
50-59	8	2,763	0	0	0.03	14	0	0
60-69	66	66,307	0	0	0.64	647	0	0
70-79	56	47,208	1	1,020	1.36	1,110	0.73	0.92
80-89	10	9,717	0	0	0.61	592	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	142	\$ 129,427	1	\$ 1,020	2.64	\$ 2,370	0.38	0.43
Year 4:								
Under 50	1	\$ 1,141	0	\$ 0	0.00	\$ 2	0	0
50-59	8	7,356	0	0	0.03	21	0	0
60-69	61	53,212	0	0	0.60	522	0	0
70-79	73	79,037	0	0	1.79	1,989	0	0
80-89	16	8,671	1	476	0.92	502	1.09	0.95
90 and over	0	0	0	0	0.00	0	0	0
All	159	\$ 149,417	1	\$ 476	3.34	\$ 3,036	0.30	0.16
Year 5:								
Under 50	1	\$ 1,141	0	\$ 0	0.00	\$ 2	0	0
50-59	12	9,935	0	0	0.05	40	0	0
60-69	73	58,842	0	0	0.73	598	0	0
70-79	92	97,962	2	1,592	2.27	2,543	0.88	0.63
80-89	27	14,474	0	0	1.77	919	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	205	\$ 182,354	2	\$ 1,592	4.82	\$ 4,102	0.41	0.39
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	13	10,741	0	0	0.05	47	0	0
60-69	85	53,012	0	0	0.86	549	0	0
70-79	122	114,906	9	8,718	2.85	2,858	3.15	3.05
80-89	35	30,929	3	4,781	2.47	2,071	1.22	2.31
90 and over	0	0	0	0	0.00	0	0	0
All	255	\$ 209,588	12	\$ 13,499	6.23	\$ 5,525	1.93	2.44

TABLE H—Continued

DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	14	11,310	0	0	0.06	53	0	0
60-69	90	49,584	0	0	0.93	521	0	0
70-79	137	122,996	2	1,071	3.23	3,014	0.62	0.36
80-89	41	35,568	2	1,267	2.66	2,371	0.75	0.53
90 and over	2	707	0	0	0.30	108	0	0
All	284	\$ 220,165	4	\$ 2,338	7.18	\$ 6,067	0.56	0.39
Year 8:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	17	13,018	0	0	0.08	65	0	0
60-69	95	52,670	0	0	0.96	541	0	0
70-79	186	152,298	5	14,737	4.40	3,765	1.14	3.91
80-89	60	49,912	4	2,036	4.27	3,723	0.94	0.55
90 and over	2	707	2	707	0.33	118	5.97	5.99
All	360	\$ 268,605	11	\$ 17,480	10.04	\$ 8,212	1.10	2.13
Year 9:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	12	8,384	0	0	0.06	44	0	0
60-69	114	64,528	2	354	1.15	672	1.74	0.53
70-79	221	169,572	6	4,374	5.55	4,228	1.08	1.03
80-89	65	47,351	5	5,328	4.72	3,559	1.06	1.50
90 and over	3	3,426	0	0	0.47	525	0	0
All	415	\$ 293,261	13	\$ 10,056	11.95	\$ 9,028	1.09	1.11
Year 10:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	11	5,870	0	0	0.06	30	0	0
60-69	110	56,409	0	0	1.12	589	0	0
70-79	239	164,616	1	447	6.02	4,047	0.17	0.11
80-89	76	55,511	4	2,365	5.54	4,333	0.72	0.55
90 and over	4	3,632	0	0	0.65	601	0	0
All	440	\$ 286,038	5	\$ 2,812	13.39	\$ 9,590	0.37	0.29
Years 1-2:								
Under 50	12	\$ 12,028	0	\$ 0	0.02	\$ 16	0	0
50-59	24	31,523	0	0	0.13	177	0	0
60-69	102	123,150	2	8,277	0.97	1,159	2.06	7.14
70-79	102	104,476	0	0	2.39	2,529	0	0
80-89	10	10,472	0	0	0.62	676	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	250	\$ 281,649	2	\$ 8,277	4.13	\$ 4,557	0.48	1.82
Years 3-5:								
Under 50	4	\$ 5,714	0	\$ 0	0.00	\$ 11	0	0
50-59	28	20,054	0	0	0.11	75	0	0
60-69	200	178,361	0	0	1.97	1,767	0	0
70-79	221	224,207	3	2,612	5.42	5,642	0.55	0.46
80-89	53	32,862	1	476	3.30	2,013	0.30	2.40
90 and over	0	0	0	0	0.00	0	0	0
All	506	\$ 461,198	4	\$ 3,088	10.80	\$ 9,508	0.37	0.32

TABLE H—Continued

DEATH CLAIMS—NONREFUND PAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	16	\$ 17,742	0	\$ 0	0.02	\$ 27	0	0
50-59.....	52	51,577	0	0	0.24	252	0	0
60-69.....	302	301,511	2	8,277	2.94	2,926	0.68	2.83
70-79.....	323	328,683	3	2,612	7.81	8,171	0.38	0.32
80-89.....	63	43,334	1	476	3.92	2,689	0.26	0.18
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	756	\$ 742,847	6	\$ 11,365	14.93	\$ 14,065	0.40	0.81
Years 6-10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	67	49,323	0	0	0.31	239	0	0
60-69.....	494	276,203	2	354	5.02	2,872	0.40	0.12
70-79.....	905	724,388	23	29,347	22.05	17,912	1.04	1.64
80-89.....	277	219,271	18	15,777	19.66	16,047	0.92	0.98
90 and over.....	11	8,472	2	707	1.75	1,352	1.14	0.52
All.....	1,754	\$1,277,657	45	\$ 46,185	48.79	\$ 38,422	0.92	1.20
Years 1-10:								
Under 50.....	16	\$ 17,742	0	\$ 0	0.02	\$ 27	0	0
50-59.....	119	100,900	0	0	0.55	491	0	0
60-69.....	796	577,714	4	8,631	7.96	5,798	0.50	1.49
70-79.....	1,228	1,053,071	26	31,959	29.86	26,083	0.87	1.23
80-89.....	340	262,605	19	16,253	23.58	18,736	0.81	0.87
90 and over.....	11	8,472	2	707	1.75	1,352	1.14	0.52
All.....	2,510	\$2,020,504	51	\$ 57,550	63.72	\$ 52,487	0.80	1.10
Years 11 and over:								
Under 50.....	129	\$ 44,717	1	\$ 750	0.18	\$ 58	5.46	12.93
50-59.....	508	211,718	4	1,710	2.18	923	1.83	1.85
60-69.....	2,334	1,014,739	28	8,970	23.25	10,211	1.20	0.88
70-79.....	4,865	2,445,795	117	58,729	127.01	64,081	0.92	0.92
80-89.....	3,619	1,790,179	250	117,537	270.62	132,318	0.92	0.89
90 and over.....	386	151,108	74	33,686	69.41	26,995	1.07	1.25
All.....	11,841	\$5,658,256	474	\$221,382	492.65	\$234,586	0.96	0.94
Years 6 and over:								
Under 50.....	129	\$ 44,717	1	\$ 750	0.18	\$ 58	5.56	12.93
50-59.....	575	261,041	4	1,710	2.49	1,162	1.61	1.47
60-69.....	2,828	1,290,942	30	9,324	28.27	13,083	1.06	0.71
70-79.....	5,770	3,170,183	140	88,076	149.06	81,993	0.94	1.07
80-89.....	3,896	2,009,450	268	133,314	290.28	148,365	0.92	0.90
90 and over.....	397	159,580	76	34,393	71.16	28,347	1.07	1.21
All.....	13,595	\$6,935,913	519	\$267,567	541.44	\$273,008	0.96	0.98
All years:								
Under 50.....	145	\$ 62,459	1	\$ 750	0.20	\$ 85	5.00	8.82
50-59.....	627	312,618	4	1,710	2.73	1,414	1.47	1.21
60-69.....	3,130	1,592,453	32	17,601	31.21	16,009	1.03	1.10
70-79.....	6,093	3,498,866	143	90,688	156.87	90,164	0.91	1.01
80-89.....	3,959	2,052,784	269	133,790	294.20	151,054	0.91	0.89
90 and over.....	397	159,580	76	34,393	71.16	28,347	1.07	1.21
All.....	14,351	\$7,678,760	525	\$278,932	556.37	\$287,073	0.94	0.97

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	5	\$ 4,053	0	\$ 0	0.00	\$ 2	0	0
50-59	11	27,171	0	0	0.04	102	0	0
60-69	25	20,146	0	0	0.22	175	0	0
70-79	23	8,151	0	0	0.57	186	0	0
80-89	16	10,867	0	0	1.16	892	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	80	\$ 70,388	0	\$ 0	1.99	\$ 1,357	0	0
Year 2:								
Under 50	8	\$ 7,569	0	\$ 0	0.01	\$ 6	0	0
50-59	10	23,143	0	0	0.04	91	0	0
60-69	34	32,595	0	0	0.31	295	0	0
70-79	25	9,103	2	240	0.60	204	3.31	1.18
80-89	20	15,190	0	0	1.58	1,468	0	0
90 and over	1	300	0	0	0.15	46	0	0
All	98	\$ 87,900	2	\$ 240	2.69	\$ 2,110	0.74	0.11
Year 3:								
Under 50	8	\$ 7,850	0	\$ 0	0.01	\$ 6	0	0
50-59	11	22,087	0	0	0.04	89	0	0
60-69	38	36,811	0	0	0.36	346	0	0
70-79	16	5,976	0	0	0.43	143	0	0
80-89	16	12,289	0	0	1.14	1,059	0	0
90 and over	2	3,132	0	0	0.30	478	0	0
All	91	\$ 88,145	0	\$ 0	2.28	\$ 2,121	0	0
Year 4:								
Under 50	9	\$ 8,884	0	\$ 0	0.01	\$ 10	0	0
50-59	15	20,215	0	0	0.06	82	0	0
60-69	43	41,903	0	0	0.42	407	0	0
70-79	25	16,660	0	0	0.56	360	0	0
80-89	22	11,826	2	903	1.63	846	1.23	1.07
90 and over	2	3,132	0	0	0.33	524	0	0
All	116	\$ 102,620	2	\$ 903	3.01	\$ 2,229	0.66	0.41
Year 5:								
Under 50	12	\$ 10,923	0	\$ 0	0.01	\$ 13	0	0
50-59	30	27,542	0	0	0.13	117	0	0
60-69	67	49,496	2	4,147	0.65	496	3.07	8.36
70-79	50	31,780	0	0	1.20	775	0	0
80-89	26	16,199	1	105	1.92	1,210	0.52	0.09
90 and over	3	3,432	0	0	0.56	628	0	0
All	188	\$ 139,372	3	\$ 4,252	4.47	\$ 3,239	0.67	1.31
Year 6:								
Under 50	10	\$ 6,785	0	\$ 0	0.01	\$ 6	0	0
50-59	34	24,070	0	0	0.14	86	0	0
60-69	77	45,933	1	1,051	0.74	451	1.35	2.33
70-79	81	51,766	0	0	1.90	1,282	0	0
80-89	34	22,388	2	997	2.54	1,727	0.79	0.58
90 and over	3	3,432	2	3,132	0.60	674	3.34	4.65
All	239	\$ 154,374	5	\$ 5,180	5.93	\$ 4,226	0.84	1.23

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	11	\$ 7,639	0	\$ 0	0.01	\$ 8	0	0
50-59	35	26,388	0	0	0.14	103	0	0
60-69	67	40,604	1	497	0.64	409	1.57	1.22
70-79	94	53,738	1	1,900	2.16	1,318	0.46	1.44
80-89	39	30,616	4	2,012	2.91	2,332	1.37	0.86
90 and over	1	300	0	0	0.22	66	0	0
All	247	\$ 159,285	6	\$ 4,409	6.08	\$ 4,236	0.99	1.04
Year 8:								
Under 50	10	\$ 6,361	0	\$ 0	0.01	\$ 8	0	0
50-59	38	27,294	0	0	0.16	120	0	0
60-69	87	50,410	1	1,673	0.82	516	1.22	3.24
70-79	106	60,020	1	241	2.66	1,554	0.38	0.16
80-89	42	36,638	1	384	3.07	2,586	0.33	0.15
90 and over	6	3,850	0	0	1.07	629	0	0
All	289	\$ 184,573	3	\$ 2,298	7.79	\$ 5,413	0.39	0.42
Year 9:								
Under 50	11	\$ 7,535	0	\$ 0	0.01	\$ 8	0	0
50-59	40	27,342	0	0	0.17	121	0	0
60-69	105	52,717	0	0	0.99	527	0	0
70-79	132	80,157	1	945	3.27	2,013	0.31	0.47
80-89	46	39,921	0	0	3.35	2,876	0	0
90 and over	11	14,207	3	9,531	1.95	2,332	1.53	4.09
All	345	\$ 221,879	4	\$ 10,476	9.74	\$ 7,877	0.41	1.33
Year 10:								
Under 50	11	\$ 7,231	0	\$ 0	0.02	\$ 8	0	0
50-59	32	23,223	0	0	0.13	91	0	0
60-69	100	48,398	0	0	0.96	466	0	0
70-79	133	98,258	1	2,424	3.30	2,480	0.30	0.98
80-89	47	35,025	1	329	3.41	2,642	0.29	0.12
90 and over	6	2,307	0	0	1.15	457	0	0
All	329	\$ 214,442	2	\$ 2,753	8.97	\$ 6,144	0.22	0.45
Years 1-2:								
Under 50	13	\$ 11,622	0	\$ 0	0.01	\$ 8	0	0
50-59	21	50,311	0	0	0.08	193	0	0
60-69	59	52,741	0	0	0.53	470	0	0
70-79	48	17,254	2	240	1.17	390	1.71	0.62
80-89	36	26,057	0	0	2.74	2,360	0	0
90 and over	1	300	0	0	0.15	46	0	0
All	178	\$ 158,288	2	\$ 240	4.68	\$ 3,467	0.43	0.07
Years 3-5:								
Under 50	29	\$ 27,657	0	\$ 0	0.03	\$ 29	0	0
50-59	56	69,844	0	0	0.23	288	0	0
60-69	148	128,210	2	4,147	1.43	1,249	1.40	3.32
70-79	91	54,416	0	0	2.19	1,278	0	0
80-89	64	40,314	3	1,008	4.69	3,115	0.64	0.32
90 and over	7	9,696	0	0	1.19	1,630	0	0
All	395	\$ 330,137	5	\$ 5,155	9.76	\$ 7,589	0.51	0.68

TABLE H—Continued

DEATH CLAIMS—NONREFUND NONPAYEE ELECTIONS—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50...	42	\$ 39,279	0	\$ 0	0.04	\$ 37	0	0
50-59.....	77	120,158	0	0	0.31	481	0	0
60-69.....	207	180,951	3	4,147	1.96	1,719	1.02	2.41
70-79.....	139	71,670	2	240	3.36	1,668	0.60	0.14
80-89.....	100	66,371	3	1,008	7.43	5,475	0.40	0.18
90 and over	8	9,996	0	0	1.34	1,676	0	0
All.....	573	\$ 488,425	7	\$ 5,395	14.44	\$ 11,056	0.48	0.49
Years 6-10:								
Under 50...	53	\$ 35,551	0	\$ 0	0.06	\$ 38	0	0
50-59.....	179	128,317	0	0	0.74	521	0	0
60-69.....	436	238,062	3	3,221	4.15	2,369	0.72	1.36
70-79.....	546	343,939	4	5,510	13.29	8,647	0.30	0.64
80-89.....	208	164,588	8	3,722	15.28	12,163	0.52	0.31
90 and over	27	24,096	5	12,663	4.99	4,158	1.00	3.05
All.....	1,449	\$ 934,553	20	\$ 25,116	38.51	\$ 27,896	0.52	0.90
Years 1-10:								
Under 50...	95	\$ 74,830	0	\$ 0	0.10	\$ 75	0	0
50-59.....	256	248,475	0	0	1.05	1,002	0	0
60-69.....	643	419,013	5	7,368	6.11	4,088	0.82	1.80
70-79.....	685	415,609	6	5,750	16.65	10,315	0.36	0.56
80-89.....	308	230,959	11	4,730	22.71	17,638	0.48	0.27
90 and over	35	34,092	5	12,663	6.33	5,834	0.79	2.17
All.....	2,022	\$ 1,422,978	27	\$ 30,511	52.95	\$ 38,952	0.51	0.78
Years 11 and over:								
Under 50...	805	\$ 357,342	3	\$ 1,497	1.08	\$ 438	2.78	3.42
50-59.....	1,673	830,990	13	9,666	6.78	3,363	1.92	2.87
60-69.....	4,367	1,960,059	49	22,384	42.34	18,682	1.16	1.20
70-79.....	6,454	3,360,146	167	77,682	162.39	85,736	1.03	0.91
80-89.....	3,692	2,116,723	193	118,810	270.51	154,487	0.71	0.77
90 and over	406	273,544	51	35,700	75.94	52,984	0.67	0.67
All.....	17,397	\$ 8,898,804	476	\$265,739	559.04	\$315,690	0.85	0.84
Years 6 and over:								
Under 50...	858	\$ 392,893	3	\$ 1,497	1.14	\$ 476	2.63	3.14
50-59.....	1,852	959,307	13	9,666	7.52	3,884	1.73	2.49
60-69.....	4,803	2,198,121	52	25,605	46.49	21,051	1.12	1.22
70-79.....	7,000	3,704,085	171	83,192	175.68	94,383	0.97	0.88
80-89.....	3,900	2,281,311	201	122,532	285.79	166,650	0.70	0.74
90 and over	433	297,640	56	48,363	80.93	57,142	0.69	0.85
All.....	18,846	\$ 9,833,357	496	\$290,855	597.55	\$343,586	0.83	0.85
All years:								
Under 50...	900	\$ 432,172	3	\$ 1,497	1.18	\$ 513	2.54	2.92
50-59.....	1,929	1,079,465	13	9,666	7.83	4,365	1.66	2.21
60-69.....	5,010	2,379,072	54	29,752	48.45	22,770	1.11	1.31
70-79.....	7,139	3,775,755	173	83,432	179.04	96,051	0.97	0.87
80-89.....	4,000	2,347,682	204	123,540	293.22	172,125	0.70	0.72
90 and over	441	307,636	56	48,363	82.27	58,818	0.68	0.82
All.....	19,419	\$10,321,782	503	\$296,250	611.99	\$354,642	0.82	0.84

TABLE H—Continued
MATURITIES AND SURRENDERS—NONREFUND PENSION TRUST ISSUES—
MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income	Number of Con- tracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	962	0	0	0.03	10	0	0
60-69	62	62,413	1	350	1.06	1,107	0.94	0.32
70-79	10	10,942	0	0	0.32	352	0	0
80-89	3	1,670	1	1,395	0.19	108	5.16	12.92
90 and over	0	0	0	0	0.00	0	0	0
All	78	\$ 75,987	2	\$ 1,745	1.60	\$ 1,577	1.25	1.11
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	5	1,584	0	0	0.05	18	0	0
60-69	69	71,191	1	907	1.27	1,354	0.79	0.67
70-79	9	11,731	0	0	0.33	435	0	0
80-89	2	275	0	0	0.14	19	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	85	\$ 84,781	1	\$ 907	1.79	\$ 1,826	0.56	0.50
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	4	1,611	0	0	0.05	18	0	0
60-69	88	68,078	1	1,352	1.68	1,304	0.60	1.04
70-79	10	17,411	1	927	0.37	654	2.70	1.42
80-89	1	756	0	0	0.06	49	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	103	\$ 87,856	2	\$ 2,279	2.16	\$ 2,025	0.93	1.13
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	836	0	0	0.01	9	0	0
60-69	104	80,755	2	231	2.10	1,647	0.95	0.14
70-79	16	24,947	0	0	0.58	1,114	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	121	\$ 106,538	2	\$ 231	2.69	\$ 2,770	0.74	0.08
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	1	836	0	0	0.01	10	0	0
60-69	89	72,480	3	1,100	1.90	1,558	1.58	0.71
70-79	28	36,711	1	232	0.96	1,526	1.04	0.15
80-89	1	10,154	1	10,154	0.08	862	11.78	11.78
90 and over	0	0	0	0	0.00	0	0	0
All	119	\$ 120,181	5	\$ 11,486	2.95	\$ 3,956	1.69	2.90
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	43	33,098	0	0	0.84	652	0	0
70-79	80	74,504	4	3,205	2.36	2,295	1.70	1.40
80-89	1	9,982	0	0	0.06	645	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	124	\$ 117,584	4	\$ 3,205	3.26	\$ 3,592	1.23	0.89

TABLE H--Continued

MATURITIES AND SURRENDERS--NONREFUND PENSION TRUST ISSUES--
MALE LIVES--Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	32	23,598	1	510	0.64	473	1.55	1.08
70-79.....	96	76,123	2	3,180	3.01	2,374	0.67	1.34
80-89.....	1	9,982	0	0	0.07	708	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	129	\$ 109,703	3	\$ 3,690	3.72	\$ 3,555	0.81	1.04
Year 8:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	22	12,988	1	648	0.46	272	2.15	2.38
70-79.....	90	72,168	3	1,417	3.01	2,379	1.00	0.60
80-89.....	4	13,698	0	0	0.28	1,032	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	116	\$ 98,854	4	\$ 2,065	3.75	\$ 3,683	1.07	0.56
Year 9:								
Under 90.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	15	10,284	0	0	0.30	198	0	0
70-79.....	139	117,712	3	1,773	4.91	4,253	0.61	0.42
80-89.....	3	3,716	0	0	0.23	283	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	157	\$ 131,712	3	\$ 1,773	5.44	\$ 4,734	0.55	0.37
Year 10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	12	6,548	2	368	0.26	129	7.62	2.85
70-79.....	155	126,265	16	9,754	5.83	4,908	2.75	1.99
80-89.....	4	16,127	0	0	0.31	1,455	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	171	\$ 148,940	18	\$ 10,122	6.40	\$ 6,492	2.81	1.56
Years 1-2:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	0	0	0
50-59.....	8	2,546	0	0	0.08	28	0	0
60-69.....	131	133,604	2	1,257	2.33	2,461	0.86	0.51
70-79.....	19	22,673	0	0	0.65	787	0	0
80-89.....	5	1,945	1	1,395	0.33	127	3.03	10.98
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	163	\$ 160,768	3	\$ 2,652	3.39	\$ 3,403	0.88	0.78
Years 3-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	6	3,283	0	0	0.07	37	0	0
60-69.....	281	221,313	6	2,683	5.68	4,509	1.06	0.60
70-79.....	54	79,069	2	1,159	1.91	3,294	1.05	0.35
80-89.....	2	10,910	1	10,154	0.14	911	7.14	11.15
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	343	\$ 314,575	9	\$ 13,996	7.80	\$ 8,751	1.15	1.60

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND PENSION TRUST ISSUES—
MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	14	5,829	0	0	0 15	65	0	0
60-69	412	354,917	8	3,940	8 01	6,970	1 00	0 57
70-79	73	101,742	2	1,159	2 56	4,081	0 78	0 28
80-89	7	12,855	2	11,549	0 47	1,038	4 26	11 13
90 and over	0	0	0	0	0 00	0	0	0
All	506	\$ 475,343	12	\$ 16,648	11 19	\$ 12,154	1 07	1 37
Years 6-10:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	0	0	0	0	0 00	0	0	0
60-69	124	86,516	4	1,526	2 50	1,724	1 60	0 89
70-79	566	466,772	28	19,329	19 12	19,209	1 46	1 19
80-89	13	53,505	0	0	0 95	4,123	0	0
90 and over	0	0	0	0	0 00	0	0	0
All	697	\$ 606,793	32	\$ 20,855	22 57	\$ 22,056	1 42	0 95
Years 1-10:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	14	5,829	0	0	0 15	65	0	0
60-69	536	441,433	12	5,466	10 51	8,694	1 14	0 63
70-79	633	568,514	30	20,488	21 68	20,290	1 38	1 01
80-89	20	66,360	2	11,549	1 42	5,161	1 41	2 24
90 and over	0	0	0	0	0 00	0	0	0
All	1,203	\$ 1,082,136	44	\$ 37,503	33 76	\$ 34,210	1 30	1 10
Years 11 and over:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	0	0	0	0	0 00	0	0	0
60-69	27	20,131	0	0	0 55	391	0	0
70-79	1,088	646,669	106	54,687	46 58	28,055	2 28	1 95
80-89	278	234,426	36	29,059	23 97	21,212	1 50	1 37
90 and over	4	7,286	1	5,592	0 69	1,239	1 45	4 51
All	1,397	\$ 908,512	143	\$ 89,338	71 79	\$ 50,897	1 99	1 76
Years 6 and over:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	0	0	0	0	0 00	0	0	0
60-69	151	106,647	4	1,526	3 05	2,115	1 31	0 72
70-79	1,648	1,113,441	134	74,016	65 70	44,264	2 04	1 67
80-89	291	287,931	36	29,059	24 92	25,335	1 44	1 15
90 and over	4	7,286	1	5,592	0 69	1,239	1 45	4 51
All	2,094	\$ 1,515,305	175	\$ 110,193	94 36	\$ 72,953	1 85	1 51
All years:								
Under 50	0	\$ 0	0	\$ 0	0 00	\$ 0	0	0
50-59	14	5,829	0	0	0 15	65	0	0
60-69	563	461,564	12	5,466	11 06	9,085	1 08	0 60
70-79	1,721	1,215,183	136	75,175	68 26	48,345	1 99	1 55
80-89	298	300,786	38	40,608	25 39	26,373	1 50	1 54
90 and over	4	7,286	1	5,592	0 69	1,239	1 45	4 51
All	2,600	\$ 1,990,648	187	\$ 126,841	105 55	\$ 85,107	1 77	1 49

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND TOTAL NON-PENSION
TRUST ISSUES—MALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	5	\$ 3,980	1	\$ 331	0.01	\$ 13	74.07	25.46
50-59.....	14	10,092	0	0	0.14	107	0	0
60-69.....	353	251,923	2	984	6.08	4,394	0.33	0.22
70-79.....	75	76,520	2	1,612	2.66	2,735	0.75	0.59
80-89.....	9	10,019	0	0	0.76	819	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	456	\$ 352,534	5	\$ 2,927	9.65	\$ 8,068	0.52	0.36
Year 2:								
Under 50.....	6	\$ 6,259	0	\$ 0	0.02	\$ 24	0	0
50-59.....	13	9,453	0	0	0.13	101	0	0
60-69.....	411	293,149	10	6,756	7.56	5,408	1.32	1.25
70-79.....	74	76,503	5	5,130	2.57	2,370	1.95	2.00
80-89.....	15	21,111	2	2,221	1.17	1,609	1.71	1.38
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	519	\$ 406,475	17	\$ 14,107	11.45	\$ 9,712	1.48	1.45
Year 3:								
Under 50.....	4	\$ 3,882	0	\$ 0	0.02	\$ 16	0	0
50-59.....	14	8,168	0	0	0.14	76	0	0
60-69.....	426	283,473	15	8,385	8.27	5,455	1.81	1.54
70-79.....	87	99,268	1	1,031	2.96	3,334	0.34	0.31
80-89.....	18	23,874	2	1,823	1.57	2,058	1.27	0.89
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	549	\$ 418,665	18	\$ 11,239	12.96	\$ 10,939	1.39	1.03
Year 4:								
Under 50.....	2	\$ 2,584	0	\$ 0	0.01	\$ 12	0	0
50-59.....	16	10,827	0	0	0.16	106	0	0
60-69.....	441	261,905	4	1,813	9.11	5,380	0.44	0.34
70-79.....	105	95,580	7	3,545	3.56	3,384	1.96	1.05
80-89.....	20	16,728	1	399	1.85	1,705	0.54	0.23
90 and over.....	1	5,408	0	0	0.17	909	0	0
All.....	585	\$ 393,032	12	\$ 5,757	14.86	\$ 11,496	0.81	0.50
Year 5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	17	9,347	0	0	0.18	100	0	0
60-69.....	583	315,438	13	3,975	12.76	6,822	1.02	0.58
70-79.....	214	136,351	4	3,974	6.84	4,679	0.58	0.85
80-89.....	18	16,640	0	0	1.79	1,812	0	0
90 and over.....	1	5,408	0	0	0.19	1,012	0	0
All.....	833	\$ 483,184	17	\$ 7,949	21.76	\$ 14,425	0.78	0.55
Year 6:								
Under 50.....	2	\$ 4,456	0	\$ 0	0.01	\$ 12	0	0
50-59.....	13	4,806	0	0	0.11	40	0	0
60-69.....	270	144,522	2	1,087	5.08	2,679	0.39	0.41
70-79.....	804	419,188	16	7,571	23.01	12,645	0.70	0.60
80-89.....	21	14,466	4	1,921	1.87	1,343	2.14	1.43
90 and over.....	2	7,259	0	0	0.38	1,438	0	0
All.....	1,112	\$ 594,697	22	\$ 10,579	30.46	\$ 18,157	0.72	0.58

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND TOTAL NON-PENSION
TRUST ISSUES—MALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	2	\$ 4,456	0	\$ 0	0.01	\$ 13	0	0
50-59	13	5,230	0	0	0.12	45	0	0
60-69	236	122,970	4	900	4.48	2,282	0.89	0.39
70-79	839	392,371	14	4,627	25.74	12,601	0.54	0.37
80-89	26	27,522	4	2,219	2.20	2,270	1.82	0.98
90 and over	3	7,597	0	0	0.59	1,657	0	0
All	1,119	\$ 560,146	22	\$ 7,746	33.14	\$ 18,868	0.66	0.41
Year 8:								
Under 50	3	\$ 4,815	0	\$ 0	0.01	\$ 16	0	0
50-59	14	5,052	0	0	0.13	46	0	0
60-69	243	136,178	3	2,279	4.68	2,606	0.64	0.87
70-79	1,077	490,944	19	5,945	35.27	16,505	0.34	0.36
80-89	48	48,154	4	4,186	4.11	4,187	0.97	1.00
90 and over	3	5,897	1	338	0.76	1,501	1.32	0.23
All	1,388	\$ 691,040	27	\$ 12,748	44.96	\$ 24,861	0.60	0.51
Year 9:								
Under 50	3	\$ 4,815	0	\$ 0	0.01	\$ 18	0	0
50-59	14	4,334	0	0	0.14	44	0	0
60-69	271	143,587	1	3,856	5.40	2,886	0.19	1.34
70-79	1,281	616,796	20	12,174	45.13	22,207	0.44	0.55
80-89	59	50,020	3	3,866	5.28	4,559	0.57	0.85
90 and over	2	532	1	151	0.60	149	1.67	1.01
All	1,630	\$ 820,084	25	\$ 20,047	56.56	\$ 29,863	0.44	0.67
Year 10:								
Under 50	3	\$ 4,815	0	\$ 0	0.01	\$ 21	0	0
50-59	12	3,899	0	0	0.12	38	0	0
60-69	272	129,757	2	1,443	5.70	2,725	0.35	0.53
70-79	1,293	639,828	24	8,427	49.00	24,914	0.49	0.34
80-89	71	46,443	4	2,107	6.13	4,357	0.65	0.48
90 and over	5	4,058	2	1,735	1.17	1,025	1.71	1.69
All	1,656	\$ 828,800	32	\$ 13,712	62.13	\$ 33,080	0.52	0.41
Years 1-2:								
Under 50	11	\$ 10,239	1	\$ 331	0.03	\$ 37	33.33	8.95
50-59	27	19,545	0	0	0.27	208	0	0
60-69	764	545,072	12	7,740	13.64	9,802	0.88	0.79
70-79	149	153,023	7	6,742	5.23	5,305	1.34	1.27
80-89	24	31,130	2	2,221	1.93	2,428	1.04	0.91
90 and over	0	0	0	0	0.00	0	0	0
All	975	\$ 759,009	22	\$ 17,034	21.10	\$ 17,780	1.04	0.96
Years 3-5:								
Under 50	6	\$ 6,466	0	\$ 0	0.03	\$ 28	0	0
50-59	47	28,342	0	0	0.48	282	0	0
60-69	1,450	860,816	32	14,173	30.14	17,657	1.06	0.80
70-79	406	331,199	12	8,550	13.36	11,397	0.90	0.75
80-89	56	57,242	3	2,222	5.21	5,575	0.58	0.40
90 and over	2	10,816	0	0	0.36	1,921	0	0
All	1,967	\$ 1,294,881	47	\$ 24,945	49.58	\$ 36,860	0.95	0.68

TABLE H--Continued

MATURITIES AND SURRENDERS--NONREFUND TOTAL NON-PENSION
TRUST ISSUES--MALE LIVES--Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50.....	17	\$ 16,705	1	\$ 331	0.06	\$ 65	16.67	5.09
50-59.....	74	47,887	0	0	0.75	490	0	0
60-69.....	2,214	1,405,888	44	21,913	43.78	27,459	1.01	0.80
70-79.....	555	484,222	19	15,292	18.59	16,702	1.02	0.92
80-89.....	80	88,372	5	4,443	7.14	8,003	0.70	0.56
90 and over.....	2	10,816	0	0	0.36	1,921	0	0
All.....	2,942	\$ 2,053,890	69	\$ 41,979	70.68	\$ 54,640	0.98	0.77
Years 6-10:								
Under 50.....	13	\$ 23,357	0	\$ 0	0.05	\$ 80	0	0
50-59.....	66	23,321	0	0	0.62	213	0	0
60-69.....	1,292	677,014	12	9,565	25.34	13,178	0.47	0.73
70-79.....	5,294	2,559,127	93	38,744	178.15	88,872	0.52	0.44
80-89.....	225	186,605	19	14,299	19.59	16,716	0.97	0.86
90 and over.....	15	25,343	4	2,224	3.50	5,770	1.14	0.39
All.....	6,905	\$ 3,494,767	128	\$ 64,832	227.25	\$ 124,829	0.56	0.52
Years 11-10:								
Under 50.....	30	\$ 40,062	1	\$ 331	0.11	\$ 145	9.09	2.28
50-59.....	140	71,208	0	0	1.37	703	0	0
60-69.....	3,506	2,082,902	56	31,478	69.12	40,637	0.81	0.77
70-79.....	5,849	3,043,349	112	54,036	196.74	105,574	0.57	0.51
80-89.....	305	274,977	24	18,742	26.73	24,719	0.90	0.76
90 and over.....	17	36,159	4	2,224	3.86	7,691	1.04	0.29
All.....	9,847	\$ 5,548,657	197	\$ 106,811	297.93	\$ 179,469	0.66	0.60
Years 11 and over:								
Under 50.....	89	\$ 34,500	0	\$ 0	0.24	\$ 90	0	0
50-59.....	196	115,547	4	1,581	1.75	967	2.28	1.63
60-69.....	1,820	927,024	51	31,838	34.19	17,214	1.49	1.85
70-79.....	9,594	4,923,415	510	301,751	406.47	208,753	1.25	1.45
80-89.....	3,834	2,087,366	393	234,911	329.16	180,639	1.19	1.30
90 and over.....	224	103,487	47	30,225	47.69	21,173	0.99	1.43
All.....	15,757	\$ 8,191,339	1,005	\$ 600,306	819.50	\$ 428,836	1.23	1.40
Years 6 and over:								
Under 50.....	102	\$ 57,857	0	\$ 0	0.29	\$ 170	0	0
50-59.....	262	138,868	4	1,581	2.37	1,180	1.69	1.34
60-69.....	3,112	1,604,038	63	41,403	59.53	30,392	1.06	1.36
70-79.....	14,888	7,482,542	603	340,495	584.62	297,625	1.03	1.14
80-89.....	4,059	2,273,971	412	249,210	348.75	197,355	1.18	1.26
90 and over.....	239	128,830	51	32,449	51.19	26,943	1.00	1.20
All.....	22,662	\$ 11,686,106	1,133	\$ 665,138	1,046.75	\$ 553,665	1.08	1.20
All years:								
Under 50.....	119	\$ 74,562	1	\$ 331	0.35	\$ 235	2.86	1.41
50-59.....	336	186,755	4	1,581	3.12	1,670	1.28	0.95
60-69.....	5,326	3,009,926	107	63,316	103.31	57,851	1.04	1.09
70-79.....	15,443	7,966,764	622	355,787	603.21	314,327	1.03	1.13
80-89.....	4,139	2,362,343	417	253,653	355.89	205,358	1.17	1.24
90 and over.....	241	139,646	51	32,449	51.55	28,864	0.99	1.12
All.....	25,604	\$ 13,739,996	1,202	\$ 707,117	1,117.43	\$ 608,305	1.08	1.16

TABLE H—Continued
MATURITIES AND SURRENDERS—NONREFUND PENSION TRUST ISSUES—
FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	5	8,401	0	0	0.03	46	0	0
60-69	119	116,577	0	0	1.11	1,074	0	0
70-79	13	15,476	0	0	0.27	361	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	137	\$ 140,454	0	\$ 0	1.41	\$ 1,481	0	0
Year 2:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	6,361	0	0	0.02	38	0	0
60-69	134	125,604	0	0	1.31	1,233	0	0
70-79	16	17,577	0	0	0.33	435	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	153	\$ 149,542	0	\$ 0	1.66	\$ 1,706	0	0
Year 3:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	4	1,626	0	0	0.02	9	0	0
60-69	139	120,110	1	180	1.46	1,252	0.69	0.14
70-79	21	22,191	0	0	0.45	569	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	164	\$ 143,927	1	\$ 180	1.93	\$ 1,830	0.52	0.10
Year 4:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	3	757	0	0	0.02	4	0	0
60-69	120	88,214	1	606	1.34	983	0.74	0.62
70-79	29	29,930	0	0	0.55	642	0	0
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	152	\$ 118,901	1	\$ 606	1.91	\$ 1,629	0.52	0.37
Year 5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	2	436	0	0	0.01	3	0	0
60-69	85	62,494	2	1,057	1.00	736	2.00	1.44
70-79	33	29,859	1	906	0.62	674	1.60	1.34
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	120	\$ 92,789	3	\$ 1,963	1.63	\$ 1,413	1.84	1.39
Year 6:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	34	17,693	0	0	0.34	181	0	0
70-79	78	52,898	1	108	1.27	862	0.79	0.13
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	112	\$ 70,591	1	\$ 108	1.61	\$ 1,043	0.62	0.10

TABLE H—Continued
MATURITIES AND SURRENDERS—NONREFUND PENSION TRUST ISSUES—
FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	29	12,725	2	802	0.31	135	6.45	5.94
70-79.....	72	52,938	7	3,427	1.33	1,028	5.25	3.33
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	101	\$ 65,663	9	\$ 4,229	1.64	\$ 1,163	5.49	3.64
Year 8:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	23	9,666	0	0	0.25	109	0	0
70-79.....	76	52,649	1	492	1.51	1,096	0.66	0.45
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	99	\$ 62,315	1	\$ 492	1.76	\$ 1,205	0.57	0.41
Year 9:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	14	3,967	0	0	0.15	45	0	0
70-79.....	98	64,651	3	3,923	2.02	1,351	1.49	2.90
80-89.....	2	4,740	0	0	0.10	249	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	114	\$ 73,358	3	\$ 3,923	2.27	\$ 1,645	1.32	2.38
Year 10:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	0	0	0	0	0.00	0	0	0
60-69.....	12	3,216	0	0	0.14	38	0	0
70-79.....	102	65,248	5	3,035	2.35	1,578	2.13	1.92
80-89.....	4	5,537	0	0	0.21	318	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	118	\$ 74,001	5	\$ 3,035	2.70	\$ 1,934	1.85	1.57
Year 1-2:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	8	14,762	0	0	0.05	84	0	0
60-69.....	253	242,181	0	0	2.42	2,307	0	0
70-79.....	29	33,053	0	0	0.60	796	0	0
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	290	\$ 289,996	0	\$ 0	3.07	\$ 3,187	0	0
Years 3-5:								
Under 50.....	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59.....	9	2,819	0	0	0.05	16	0	0
60-69.....	344	270,818	4	1,843	3.80	2,971	1.05	0.62
70-79.....	83	81,980	1	906	1.62	1,885	0.62	0.48
80-89.....	0	0	0	0	0.00	0	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	436	\$ 355,617	5	\$ 2,749	5.47	\$ 4,872	0.91	0.56

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND PENSION TRUST ISSUES—
FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	17	17,581	0	0	0.10	100	0	0
60-69	597	512,999	4	1,843	6.22	5,278	0.64	0.35
70-79	112	115,033	1	906	2.22	2,681	0.45	0.34
80-89	0	0	0	0	0.00	0	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	726	\$ 645,613	5	\$ 2,749	8.54	\$ 8,059	0.59	0.34
Years 6-10:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	112	47,267	2	802	1.19	508	1.68	1.58
70-79	426	288,384	17	10,985	8.48	5,915	2.00	1.86
80-89	6	10,277	0	0	0.31	567	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	544	\$ 345,928	19	\$11,787	9.98	\$ 6,990	1.90	1.69
Years 11-10:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	17	17,581	0	0	0.10	100	0	0
60-69	709	560,266	6	2,645	7.41	5,786	0.81	0.46
70-79	538	403,417	18	11,891	10.70	8,596	1.68	1.38
80-89	6	10,277	0	0	0.31	567	0	0
90 and over	0	0	0	0	0.00	0	0	0
All	1,270	\$ 991,541	24	\$14,536	18.52	\$15,049	1.30	0.97
Years 11 and over:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	27	9,764	0	0	0.27	98	0	0
70-79	563	267,227	20	8,012	15.00	7,202	1.33	1.11
80-89	108	56,006	9	4,960	6.33	3,511	1.42	1.41
90 and over	2	838	0	0	0.32	134	0	0
All	700	\$ 333,835	29	\$12,972	21.92	\$10,945	1.32	1.19
Years 6 and over:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	0	0	0	0	0.00	0	0	0
60-69	139	57,031	2	802	1.46	606	1.37	1.32
70-79	989	555,611	37	18,997	23.48	13,117	1.58	1.45
80-89	114	66,283	9	4,960	6.64	4,078	1.36	1.22
90 and over	2	838	0	0	0.32	134	0	0
All	1,244	\$ 679,763	48	\$24,759	31.90	\$17,935	1.50	1.38
All years:								
Under 50	0	\$ 0	0	\$ 0	0.00	\$ 0	0	0
50-59	17	17,581	0	0	0.10	100	0	0
60-69	756	570,030	6	2,645	7.68	5,884	0.78	0.45
70-79	1,101	670,644	38	19,903	25.70	15,798	1.48	1.26
80-89	114	66,283	9	4,960	6.64	4,078	1.36	1.22
90 and over	2	838	0	0	0.32	134	0	0
All	1,970	\$1,325,376	53	\$27,508	40.44	\$25,994	1.31	1.06

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 1:								
Under 50.....	6	\$ 13,775	0	\$ 0	0.01	\$ 20	0	0
50-59.....	50	108,681	0	0	0.23	482	0	0
60-69.....	692	725,340	2	1,787	6.29	6,685	0.32	0.27
70-79.....	170	240,212	0	0	3.51	5,266	0	0
80-89.....	23	48,748	0	0	1.51	3,153	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	941	\$ 1,136,756	2	\$ 1,787	11.55	\$ 15,606	0.17	0.11
Year 2:								
Under 50.....	6	\$ 12,282	0	\$ 0	0.01	\$ 14	0	0
50-59.....	53	120,229	1	554	0.24	527	4.11	1.05
60-69.....	744	705,743	5	4,517	7.06	6,664	0.71	0.68
70-79.....	197	259,915	3	1,707	4.18	6,001	0.72	0.28
80-89.....	24	43,776	3	3,532	1.80	3,774	1.67	0.94
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	1,024	\$ 1,141,945	12	\$ 10,310	13.29	\$ 16,980	0.90	0.61
Year 3:								
Under 50.....	6	\$ 11,882	0	\$ 0	0.01	\$ 14	0	0
50-59.....	62	134,655	1	307	0.28	586	3.58	0.52
60-69.....	736	641,428	9	5,213	7.31	6,247	1.23	0.83
70-79.....	216	264,039	5	18,392	4.66	6,065	1.07	3.03
80-89.....	28	44,192	0	0	2.07	3,951	0	0
90 and over.....	0	0	0	0	0.00	0	0	0
All.....	1,048	\$ 1,096,196	15	\$ 23,912	14.33	\$ 16,863	1.05	1.42
Year 4:								
Under 50.....	6	\$ 11,882	0	\$ 0	0.01	\$ 18	0	0
50-59.....	63	133,323	1	1,368	0.30	612	3.36	2.24
60-69.....	731	572,101	12	11,755	7.63	5,741	1.57	2.05
70-79.....	227	261,828	4	10,818	4.91	5,961	0.81	1.81
80-89.....	37	49,687	1	1,180	2.68	3,733	0.37	0.32
90 and over.....	2	9,871	0	0	0.33	1,534	0	0
All.....	1,066	\$ 1,038,692	18	\$ 25,121	15.86	\$ 17,599	1.13	1.43
Year 5:								
Under 50.....	4	\$ 5,680	0	\$ 0	0.00	\$ 6	0	0
50-59.....	60	106,762	1	2,116	0.30	490	3.39	4.32
60-69.....	859	519,731	6	1,319	9.33	5,407	0.64	0.24
70-79.....	332	307,378	3	6,123	6.90	7,079	0.44	0.86
80-89.....	40	47,129	0	0	2.78	3,393	0	0
90 and over.....	5	16,092	1	8,894	0.82	2,628	1.22	3.38
All.....	1,300	\$ 1,002,772	11	\$ 18,452	20.13	\$ 19,003	0.55	0.97
Year 6:								
Under 50.....	3	\$ 3,348	0	\$ 0	0.00	\$ 4	0	0
50-59.....	40	74,283	0	0	0.18	321	0	0
60-69.....	601	364,050	3	1,742	5.82	3,434	0.52	0.51
70-79.....	768	452,046	8	3,742	13.34	8,881	0.60	0.42
80-89.....	45	46,959	4	3,206	2.89	3,011	1.38	1.06
90 and over.....	3	2,180	0	0	0.54	404	0	0
All.....	1,460	\$ 942,866	15	\$ 8,690	22.77	\$ 16,055	0.66	0.54

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND TOTAL NON-PENSION TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Year 7:								
Under 50	1	\$ 1,201	0	\$ 0	0 00	\$ 2	0	0
50-59	37	69,406	1	742	0 16	300	6.25	2.47
60-69	578	320,181	8	2,894	5 78	3,100	1.38	0.93
70-79	815	473,241	17	12,003	15 17	9,802	1.12	1.22
80-89	45	48,293	1	1,209	2 95	3,227	0.34	0.37
90 and over	4	3,050	1	977	0 74	567	1.36	1.72
All	1,480	\$ 915,372	28	\$ 17,825	24 80	\$ 16,998	1 13	1 05
Year 8:								
Under 50	2	\$ 3,283	0	\$ 0	0 00	\$ 5	0	0
50-59	36	61,263	0	0	0 17	292	0	0
60-69	680	333,915	3	1,425	7 18	3,443	0 42	0 41
70-79	1,005	515,757	9	4,296	20 01	11,066	0 45	0 39
80-89	48	62,223	3	6,095	3 38	4,197	0 80	1 45
90 and over	2	1,893	0	0	0 36	346	0	0
All	1,773	\$ 978,334	15	\$ 11,811	31 10	\$ 19,349	0 48	0 61
Year 9:								
Under 50	3	\$ 4,105	0	\$ 0	0 01	\$ 7	0	0
50-59	33	55,667	0	0	0 16	263	0	0
60-69	827	362,377	4	1,749	9 22	3,921	0 13	0 45
70-79	1,242	603,205	19	8,030	26 61	13,615	0 71	0 59
80-89	76	63,605	2	624	4 95	4,144	0 40	0 15
90 and over	3	2,058	0	0	0 51	371	0	0
All	2,174	\$ 1,091,017	25	\$ 10,403	41 46	\$ 22,321	0 60	0 47
Year 10:								
Under 50	3	\$ 3,962	0	\$ 0	0 00	\$ 7	0	0
50-59	31	46,840	0	0	0 16	236	0	0
60-69	730	317,693	3	7,003	8 51	3,548	0 35	1 97
70-79	1,421	644,101	23	9,560	32 37	15,211	0 71	0 63
80-89	109	85,157	4	1,994	7 35	5,858	0 54	0 34
90 and over	3	2,952	0	0	0 54	572	0	0
All	2,297	\$ 1,100,705	30	\$ 18,537	48 93	\$ 25,432	0 61	0 73
Years 1-2:								
Under 50	12	\$ 26,057	0	\$ 0	0 02	\$ 34	0	0
50-59	103	228,910	1	554	0 47	1,099	2 13	0 55
60-69	1,436	1,431,083	7	6,304	13 35	13,349	0 52	0 47
70-79	367	500,127	3	1,707	7 69	11,267	0 39	0 15
80-89	47	92,524	3	3,532	3 31	6,927	0 91	0 51
90 and over	0	0	0	0	0 00	0	0	0
All	1,965	\$ 2,278,701	14	\$ 12,097	24 84	\$ 32,586	0 56	0 37
Years 3-5:								
Under 50	16	\$ 29,444	0	\$ 0	0 02	\$ 38	0	0
50-59	185	374,740	3	3,791	0 88	1,688	3 41	2 25
60-69	2,326	1,733,260	27	18,287	24 27	17,395	1 11	1 05
70-79	775	833,245	12	35,333	16 47	19,105	0 73	1 85
80-89	105	141,008	1	1,180	7 53	11,077	0 13	0 11
90 and over	7	25,963	1	8,894	1 15	4,162	0 87	2 14
All	3,414	\$ 3,137,660	44	\$ 67,485	50 32	\$ 53,465	0 87	1 26

TABLE H—Continued

MATURITIES AND SURRENDERS—NONREFUND TOTAL NON-PENSION
TRUST ISSUES—FEMALE LIVES—Continued

ATTAINED AGES BY CONTRACT YEAR	EXPOSURES		ACTUAL DEATHS		EXPECTED DEATHS		MORTALITY RATIO	
	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income	Number of Contracts	Amount of Annual Income
Years 1-5:								
Under 50	28	\$ 55,501	0	\$ 0	0 04	\$ 72	0	0
50-59	288	603,650	4	4,345	1 35	2,697	2 96	1 61
60-69	3,762	3,164,343	34	24,591	37 62	30,744	0 90	0 80
70-79	1,142	1,333,372	15	37,040	24 16	30,372	0 62	1 22
80-89	152	233,532	4	4,712	10 84	18,004	0 37	0 26
90 and over	7	25,963	1	8,894	1 15	4,162	0 87	2 14
All	5,379	\$ 5,416,361	58	\$ 79,582	75 16	\$ 86,051	0 77	0 92
Years 6-10:								
Under 50	12	\$ 15,899	0	\$ 0	0 01	\$ 25	0	0
50-59	177	307,459	1	742	0 83	1,412	1 20	0 53
60-69	3,416	1,698,216	21	14,813	36 51	17,446	0 58	0 85
70-79	5,241	2,688,350	76	37,631	107 50	58,575	0 71	0 64
80-89	323	306,237	14	13,123	21 52	20,437	0 65	0 64
90 and over	15	12,133	1	977	2 69	2,260	0 37	0 43
All	9,184	\$ 5,028,294	113	\$ 67,286	169 06	\$100,155	0 67	0 67
Years 1-10:								
Under 50	40	\$ 71,400	0	\$ 0	0 05	\$ 97	0	0
50-59	465	911,109	5	5,087	2 18	4,109	2 29	1 24
60-69	7,178	4,862,559	55	39,404	74 13	48,190	0 74	0 82
70-79	6,383	4,021,722	91	74,671	131 66	88,947	0 69	0 84
80-89	475	539,769	18	17,835	32 36	38,441	0 56	0 46
90 and over	22	38,096	2	9,871	3 84	6,422	0 52	1 54
All	14,563	\$10,444,655	171	\$146,868	244 22	\$186,206	0 70	0 79
Years 11 and over:								
Under 50	209	\$ 99,713	0	\$ 0	0 27	\$ 134	0	0
50-59	350	288,634	6	3,563	1 50	1,252	4 00	2 85
60-69	3,465	1,760,806	55	28,304	34 75	17,298	1 58	1 64
70-79	16,248	6,244,627	510	200,576	406 01	157,288	1 26	1 28
80-89	6,111	2,835,050	459	216,224	435 18	210,022	1 05	1 03
90 and over	552	288,070	97	35,202	100 12	52,538	0 97	0 67
All	26,935	\$11,516,900	1,127	\$483,869	977 83	\$438,532	1 15	1 10
Years 6 and over:								
Under 50	221	\$ 115,612	0	\$ 0	0 28	\$ 159	0	0
50-59	527	596,093	7	4,305	2 33	2,664	3 00	1 62
60-69	6,881	3,459,022	76	43,117	71 26	34,744	1 07	1 24
70-79	21,489	8,932,977	586	238,207	513 51	215,863	1 14	1 10
80-89	6,434	3,141,287	473	229,347	456 70	230,459	1 04	1 00
90 and over	567	300,203	98	36,179	102 81	54,793	0 95	0 66
All	36,119	\$16,545,194	1,240	\$551,155	1,146 89	\$538,687	1 08	1 02
All years:								
Under 50	249	\$ 171,113	0	\$ 0	0 32	\$ 231	0	0
50-59	815	1,199,743	11	8,650	3 68	5,361	2 99	1 61
60-69	10,643	6,623,365	110	67,708	108 88	65,488	1 01	1 03
70-79	22,631	10,266,349	601	275,247	537 67	246,235	1 12	1 12
80-89	6,586	3,374,819	477	234,059	467 54	248,463	1 02	0 94
90 and over	574	326,166	99	45,073	103 96	58,960	0 95	0 76
All	41,498	\$21,961,555	1,298	\$630,737	1,222 05	\$624,738	1 06	1 01

