



Study Methodology and Response

Study Methodology

The information required for the Society of Actuaries (SOA) study was detailed and technical. Experience with similar studies indicates that such information is best collected from the technical documents themselves, rather than from mailed surveys. Mailed surveys of this nature place a heavy burden on the respondents, dramatically reducing the response rate. Furthermore, the complex nature of the required information makes mailed surveys more prone to misinterpretation and inconsistent responses.

To improve the response rate and to standardize the data, the SOA study relied upon the following documents, which were requested by mail (and subsequent follow-up calls) from 77 state-wide public employee retirement systems, believed to essentially constitute the universe of such systems in the U.S.:

- Most recent annual financial report
- Most recent actuarial valuation
- Most recent actuarial experience study
- Most recent investment report.

The response to the request for information was excellent. All but two of the 77 systems provided at least one of the requested documents. In addition, because several of the respondents were multiple systems, the number of systems represented by the respondents actually totaled 83. A list of the systems and the documents they provided is presented in Appendix C.

Of the 83 systems, all but 6 provided an annual financial report (or variant thereof), and all but 5 provided an actuarial valuation. These two documents offer a strong base of information related to actuarial

assumptions and investments practices. The response rate for experience studies was not as good, however. Only 60 of the 83 systems provided experience studies (or summaries thereof). While these results are somewhat disappointing, the 60 experience studies that were received cover 101 public employee retirement plans and offer a fairly large base of information for the study.

Finally, although relatively few of the respondents provided separate investment reports, almost all included asset distribution and rate of return information in their annual financial reports, making it relatively easy to collect these data.

Data Collection and Entry

Although the process of obtaining information from system reports undoubtedly improved the response rate for this study, and provides a rich basis for analyzing the data, it also imposed a substantial burden on the study team. Because there is no fixed format for reporting much of the information, each of over 200 documents had to be examined in detail to cull the required data. Furthermore, because there is a wide variety of techniques and assumptions used in actuarial analysis, judgments had to be made about what information to enter and how to code it in a consistent manner.

The codes used to summarize and display the data are presented in Appendix B. In addition, many of the tables contain areas for notes related to the data. Although it is impossible to make the data completely consistent, the codes and notes should help to make the information more comparable.

Also, in order to allow for an easy interface with the PENDAT database, the system and plan identifier codes used in the SOA tables are the same as those for the PENDAT database. This allows for easy matching of the SOA data with the responses to the Public Pension Coordinating Council's survey. Where a system or plan in the SOA database is not in the PENDAT database, it is marked with an asterisk.

The remainder of this section discusses data collection and coding as it relates to the three major areas of data: experience studies, actuarial valuations, and investments.

Experience Studies

The project workplan called for collection of experience study data pertaining to: the period of study; study methodology; study results; study contents; and categories of data reviewed (that is, active mortality, disability retirement, salary scale, service retirement, withdrawal, retired mortality, disabled mortality, and other methods and assumptions). The workplan also called for collection of information about the changes in actuarial assumptions recommended by the study.

The data culled from the experience studies are presented in Appendix D. As was mentioned above, 60 of the 83 systems provided copies of their most recent experience studies, covering 101 plans. For assumptions related to demographic variables, the tables show the relationship between the actual plan experience and actuarial assumptions in terms of the "A/E" ratio calculated for total plan members. Accompanying this information is a column of text describing the actuary's recommendation for changing the assumptions. For assumptions related to economic variables, the tables only describe the actuary's recommendation.

Summary statistics are provided at the bottom of the columns for which there were numeric data. The statistics include "COUNT" (showing the number of rows containing valid numeric input), "AVG" (showing the mean of the valid inputs), and "ST.DEV." (showing the standard deviation of the valid inputs). In some of the investment-related tables the statistics include "SUM" (showing the sum of the valid inputs).

It is interesting to note that experience studies do not always analyze all of the demographic or economic variables. For example, there are a relatively large number of experience studies that did not report an analysis of active member mortality. When this happened, the fields related to the variable are marked "NR" or "NOT REPORTED". In some cases, the au-

thors of the study explained that active mortality is included with their analysis of withdrawals. To the extent that such groupings were made explicit by the authors, this information was included in the tables.

Actuarial Valuations

The project workplan called for collection of actuarial valuation data pertaining to: actuarial cost and asset valuation methods; investment return assumptions; salary increase assumptions; and demographic assumptions related to active mortality, disability retirement, service retirement, withdrawal, retirement mortality, and disability mortality.

Of the 83 systems, 78 provided their most recent actuarial valuation report, covering 183 plans (or separately valued employee groups). For the demographic assumptions, the tables show the percentage of exposed members expected to experience the event within the next year (that is, 0.01 is equivalent to 0.01%). For most of the assumptions, rates are shown by age and sex.

For some assumptions (particularly withdrawals) the use of select and ultimate rates made collecting and entering the data difficult. In order to improve the consistency of the data, rates were entered for the period after five years of service (where available). Although this does not fully standardize the rates, it mitigates some of the inconsistency.

In addition, for many of the valuations, the example rates given for the demographic assumptions did not distinguish between males and females. Where this occurred, it is highlighted in the tables by using the code "NDBM&F" in the assumption's note column. In these cases, it is unclear whether the actuary is actually **not** making the distinction, or **is** making the distinction (but not reporting it in the tables).

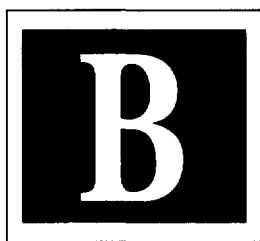
Investments

The project workplan called for collection of investment data pertaining to asset mix relating to: equities, fixed-income, short-term and other investments; and investment returns over the past five years.

Of the 83 systems, 77 provided annual financial reports. From these reports (and the included investment studies), information was culled about the investments made by 87 public employee retirement funds. (Note that some systems have more than one fund.)

While most of the information was fairly easy to obtain and interpret, the data related to investment return should be treated with care. The base on which the rate of return was calculated varied widely from

system to system, with some basing it on the cost value of the portfolio and others basing it on the market value. In addition, a substantial number did not disclose the basis for measuring investment return.



Column Names and Data Codes

COLUMN NAMES

The column names described below are used in the tables following this appendix to abbreviate the column labels in each table. For the most part, these labels are mnemonic and should be easy to understand from the tables. A listing of the codes used to abbreviate the data entries follows the listing of column names in this appendix.

Column Name *Description*

Appendix C. Listing of Respondents and Reports Received

SYSID	SYSTEM ID CODE
SYSTEM	SYSTEM NAME
FY	FISCAL YEAR
FIN-RPT	ANNUAL FINANCIAL REPORT RECEIVED
ACT-VAL	ACTUARIAL VALUATION RECEIVED
EXP-STDY	EXPERIENCE STUDY RECEIVED
OTHER	OTHER REPORT(S) RECEIVED

Appendix D. PERS Experience Study Tables

SYSPLAN	PLAN ID CODE
STATE	STATE
PLAN_NAME	PLAN NAME
FIRM	FIRM DOING STUDY
PERIOD	PERIOD COVERED BY STUDY
METHOD	STUDY METHODOLOGY
AM_ACTUAL	ACTIVE MEMBER MORTALITY - ACTUAL NUMBER
AM_EXPECT	ACTIVE MEMBER MORTALITY - EXPECTED NUMBER
AM_RATIO	ACTIVE MEMBER MORTALITY - A/E RATIO
AM_RECOM	ACTIVE MEMBER MORTALITY - RECOMMENDATIONS
DR_ACTUAL	DISABILITY RETIREMENT - ACTUAL NUMBER
DR_EXPECT	DISABILITY RETIREMENT - EXPECTED NUMBER
DR_RATIO	DISABILITY RETIREMENT - A/E RATIO
DR_RECOM	DISABILITY RETIREMENT - RECOMMENDATIONS
SR_ACTUAL	SERVICE RETIREMENT - ACTUAL NUMBER
SR_EXPECT	SERVICE RETIREMENT - EXPECTED NUMBER

SR_RATIO	SERVICE RETIREMENT - A/E RATIO
SR_RECOM	SERVICE RETIREMENT - RECOMMENDATIONS
AW_ACTUAL	ACTIVE WITHDRAWAL - ACTUAL NUMBER
AW_EXPECT	ACTIVE WITHDRAWAL - EXPECTED NUMBER
AW_RATIO	ACTIVE WITHDRAWAL - A/E RATIO
AW_RECOM	ACTIVE WITHDRAWAL - RECOMMENDATIONS
RM_ACTUAL	RETIRED MORTALITY - ACTUAL NUMBER
RM_EXPECT	RETIRED MORTALITY - EXPECTED NUMBER
RM_RATIO	RETIRED MORTALITY - A/E RATIO
RM_RECOM	RETIRED MORTALITY - RECOMMENDATIONS
DM_ACTUAL	DISABLED MORTALITY - ACTUAL NUMBER
DM_EXPECT	DISABLED MORTALITY - EXPECTED NUMBER
DM_RATIO	DISABLED MORTALITY - A/E RATIO
DM_RECOM	DISABLED MORTALITY - RECOMMENDATIONS
INV_RECOM	INVESTMENT RETURN RATE RECOMMENDATIONS
SAL_RECOM	SALARY ASSUMPTION RATE RECOMMENDATIONS
PAYGRO_REC	PAYROLL GROWTH RATE RECOMMENDATIONS
AV_METH	ACTUARIAL COST METHOD RECOMMENDATIONS
AVA_METH	ASSET VALUATION METHOD RECOMMENDATIONS

Appendix E. PERS Actuarial Valuation Tables

SYSPLAN	PLAN ID CODE
PLAN_NAME	PLAN NAME
STATE	STATE
DATE	VALUATION DATE
ACTUARY	PLAN ACTUARY
A-METHOD	ACTUARIAL COST METHOD
AV-EQ	ASSET VALUATION METHOD - EQUITIES
AV-FX	ASSET VALUATION METHOD - FIXED INCOME
INV	INVESTMENT RETURN ASSUMPTION
INF	INFLATION ASSUMPTION
TSI-A30	TOTAL SALARY INCREASE - AGE 30 (INF. +STEP/MERIT)
TSI-A40	TOTAL SALARY INCREASE - AGE 40 (INF. +STEP/MERIT)
TSI-A50	TOTAL SALARY INCREASE - AGE 50 (INF. +STEP/MERIT)
TSI-A60	TOTAL SALARY INCREASE - AGE 60 (INF. +STEP/MERIT)
TSL_NOTE	TOTAL SALARY INCREASE - TEXT NOTE
AM-M40	ACTIVE MORTALITY RATE - MALE - AGE 40
AM-M50	ACTIVE MORTALITY RATE - MALE - AGE 50
AM-M60	ACTIVE MORTALITY RATE - MALE - AGE 60
AM-F40	ACTIVE MORTALITY RATE - FEMALE - AGE 40
AM-F50	ACTIVE MORTALITY RATE - FEMALE - AGE 50
AM-F60	ACTIVE MORTALITY RATE - FEMALE - AGE 60
AM-NOTE	ACTIVE MORTALITY RATE - TEXT NOTE
D-M20	ACTIVE DISABILITY RATE - MALE AGE 20
D-M25	ACTIVE DISABILITY RATE - MALE AGE 25
D-M30	ACTIVE DISABILITY RATE - MALE AGE 30
D-M35	ACTIVE DISABILITY RATE - MALE AGE 35
D-M40	ACTIVE DISABILITY RATE - MALE AGE 40
D-M45	ACTIVE DISABILITY RATE - MALE AGE 45

D-M50	ACTIVE DISABILITY RATE - MALE AGE 50
D-M55	ACTIVE DISABILITY RATE - MALE AGE 55
D-F20	ACTIVE DISABILITY RATE - FEMALE AGE 20
D-F25	ACTIVE DISABILITY RATE - FEMALE AGE 25
D-F30	ACTIVE DISABILITY RATE - FEMALE AGE 30
D-F35	ACTIVE DISABILITY RATE - FEMALE AGE 35
D-F40	ACTIVE DISABILITY RATE - FEMALE AGE 40
D-F45	ACTIVE DISABILITY RATE - FEMALE AGE 45
D-F50	ACTIVE DISABILITY RATE - FEMALE AGE 50
D-F55	ACTIVE DISABILITY RATE - FEMALE AGE 55
D-NOTE	ACTIVE DISABILITY RATE - TEXT NOTE
W-M20	WITHDRAWAL RATE - MALE AGE 20
W-M25	WITHDRAWAL RATE - MALE AGE 25
W-M30	WITHDRAWAL RATE - MALE AGE 30
W-M35	WITHDRAWAL RATE - MALE AGE 35
W-M40	WITHDRAWAL RATE - MALE AGE 40
W-M45	WITHDRAWAL RATE - MALE AGE 45
W-M50	WITHDRAWAL RATE - MALE AGE 50
W-M55	WITHDRAWAL RATE - MALE AGE 55
W-F20	WITHDRAWAL RATE - FEMALE AGE 20
W-F25	WITHDRAWAL RATE - FEMALE AGE 25
W-F30	WITHDRAWAL RATE - FEMALE AGE 30
W-F35	WITHDRAWAL RATE - FEMALE AGE 35
W-F40	WITHDRAWAL RATE - FEMALE AGE 40
W-F45	WITHDRAWAL RATE - FEMALE AGE 45
W-F50	WITHDRAWAL RATE - FEMALE AGE 50
W-F55	WITHDRAWAL RATE - FEMALE AGE 55
D-NOTE	WITHDRAWAL RATE - TEXT NOTE
SR-M55	SERVICE RETIREMENT RATE - MALE AGE 55
SR-M60	SERVICE RETIREMENT RATE - MALE AGE 60
SR-M62	SERVICE RETIREMENT RATE - MALE AGE 62
SR-M65	SERVICE RETIREMENT RATE - MALE AGE 65
SR-M67	SERVICE RETIREMENT RATE - MALE AGE 67
SR-F55	SERVICE RETIREMENT RATE - FEMALE AGE 55
SR-F60	SERVICE RETIREMENT RATE - FEMALE AGE 60
SR-F62	SERVICE RETIREMENT RATE - FEMALE AGE 62
SR-F65	SERVICE RETIREMENT RATE - FEMALE AGE 65
SR-F67	SERVICE RETIREMENT RATE - FEMALE AGE 67
SR-NOTE	SERVICE RETIREMENT RATE - TEXT NOTE
RM-M50	RETIRED MORTALITY RATE - MALE AGE 50
RM-M60	RETIRED MORTALITY RATE - MALE AGE 60
RM-M70	RETIRED MORTALITY RATE - MALE AGE 70
RM-M80	RETIRED MORTALITY RATE - MALE AGE 80
RM-F50	RETIRED MORTALITY RATE - FEMALE AGE 50
RM-F60	RETIRED MORTALITY RATE - FEMALE AGE 60
RM-F70	RETIRED MORTALITY RATE - FEMALE AGE 70
RM-F80	RETIRED MORTALITY RATE - FEMALE AGE 80
RM-NOTE	RETIRED MORTALITY RATE - TEXT NOTE
DM-M40	DISABLED MORTALITY RATE - MALE AGE 40
DM-M50	DISABLED MORTALITY RATE - MALE AGE 50
DM-M60	DISABLED MORTALITY RATE - MALE AGE 60

DM-M70	DISABLED MORTALITY RATE - MALE AGE 70
DM-M80	DISABLED MORTALITY RATE - MALE AGE 80
DM-F40	DISABLED MORTALITY RATE - FEMALE AGE 40
DM-F50	DISABLED MORTALITY RATE - FEMALE AGE 50
DM-F60	DISABLED MORTALITY RATE - FEMALE AGE 60
DM-F70	DISABLED MORTALITY RATE - FEMALE AGE 70
DM-F80	DISABLED MORTALITY RATE - FEMALE AGE 80
DM-NOTE	DISABLED MORTALITY RATE - TEXT NOTE

Appendix F. PERS Investment Tables

SYSID	SYSTEM ID CODE
SYSTEM	SYSTEM NAME
DATE	PORTFOLIO VALUATION DATE
TOT_D_M	TOTAL INVESTMENTS (IN \$ MILLIONS AT MARKET)
TOT_D_C	TOTAL INVESTMENTS (IN \$ MILLIONS AT BOOK OR COST)
RET93	RATE OF RETURN FOR FY 93
RET92	RATE OF RETURN FOR FY 92
RET91	RATE OF RETURN FOR FY 91
RET90	RATE OF RETURN FOR FY 90
RET89	RATE OF RETURN FOR FY 89
BASE	BASIS FOR MEASURING RATE OF RETURN
DSTOCK_D	DOMESTIC STOCK (\$ MILLIONS)
REALEQ_D	REAL ESTATE EQUITY (\$ MILLIONS)
INTLEQ_D	INTERNATIONAL EQUITY (\$ MILLIONS)
OTHREQ_D	OTHER EQUITY (\$ MILLIONS)
OTHREQ_STR	OTHER EQUITY - DESCRIPTION
TOTLEQ_D	TOTAL EQUITY (\$ MILLIONS)
DBONDS_D	TOTAL DOMESTIC BONDS (\$ MILLIONS)
CBONDS_D	CORPORATE BONDS (\$ MILLIONS)
GBONDS_D	GOVT. AND AGENCY BONDS (\$ MILLIONS)
RLMORT_D	REAL ESTATE MORTGAGES (\$ MILLIONS)
INTLFX_D	INTERNATIONAL FIXED INCOME (\$ MILLIONS)
OTHRFX_D	OTHER FIXED INCOME (\$ MILLIONS)
OTHRFX_STR	OTHER FIXED INCOME - DESCRIPTION
TOTLFX_D	TOTAL FIXED INCOME (\$ MILLIONS)
SHORT_D	SHORT TERM INVESTMENTS (\$ MILLIONS)
VENTURE_D	VENTURE CAPITAL INVESTMENTS (\$ MILLIONS)
OTHER_D	OTHER INVESTMENTS (\$ MILLIONS)
OTHR_STR	OTHER INVESTMENTS - DESCRIPTION
DSTOCK	DOMESTIC STOCK (% OF PORTFOLIO)
REALEQ	REAL ESTATE EQUITIES (% OF PORTFOLIO)
INTLEQ	INTERNATIONAL EQUITIES (% OF PORTFOLIO)
OTHREQ	OTHER EQUITIES (% OF PORTFOLIO)
TOTLEQ	TOTAL EQUITIES (% OF PORTFOLIO)
DBONDS	TOTAL DOMESTIC BONDS (% OF PORTFOLIO)
CBONDS	CORPORATE BONDS (% OF PORTFOLIO)
GBONDS	GOVT. AND AGENCY BONDS (% OF PORTFOLIO)
RLMORT	REAL ESTATE MORTGAGES (% OF PORTFOLIO)
INTLFX	INTERNATIONAL FIXED INCOME (% OF PORTFOLIO)

OTHRFX	OTHER FIXED INCOME (% OF PORTFOLIO)
TOTLFX	TOTAL FIXED INCOME (% OF PORTFOLIO)
SHORT	SHORT TERM INVESTMENTS (% OF PORTFOLIO)
VENTURE	VENTURE CAPITAL INVESTMENTS (% OF PORTFOLIO)
OTHR	OTHER INVESTMENTS (% OF PORTFOLIO)

DATA CODES

The following codes are used to abbreviate data throughout the tables that follow:

General Codes

NR	NOT REPORTED
NA	NOT APPLICABLE
NDBM&F	NO DISTINCTION BETWEEN MALES AND FEMALES REPORTED

Actuarial Firms

MERCER	WILLIAM M. MERCER, INC.
HM&A	HENDRICKSON, MILLER & ASSOCIATES, INC.
M&R	MILLIMAN & ROBERTSON, INC.
GRS&C	GABRIEL, ROEDER, SMITH & CO.
SEGAL	THE SEGAL COMPANY
WYATT	THE WYATT COMPANY
TP	TOWERS PERRIN
M&K	McCREADY AND KEENE, INC.
BPS&M	BRYAN PENDLETON SWATS & McALLISTER
STATE	STATE ACTUARY
INTERNAL	SYSTEM ACTUARY
H/H	HAY HUGGINS CO.
HALL	HALL ACTUARIAL ASSOCIATES

Actuarial Methods

PUC	PROJECTED UNIT CREDIT
EA	ENTRY AGE
AGG	AGGREGATE
FIL	FROZEN INITIAL LIABILITY
PAYGO	MODIFIED NET PAY-AS-YOU-GO
ATT	ATTAINED AGE
UC	UNIT CREDIT
-O	OPEN AMORTIZATION METHOD
-C	CLOSED AMORTIZATION METHOD

Asset Valuation Methods

MKT	MARKET
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BOOK
ACOST
3Y
5Y
18M
COST
<C/M
AV+C

BOOK
AMORTIZED COST
3-YEAR SMOOTHING
5-YEAR SMOOTHING
18-MONTH SMOOTHING
COST
LESSER OF COST OR MARKET
BLEND OF ACTUARIAL VALUE AND COST

Mortality Tables

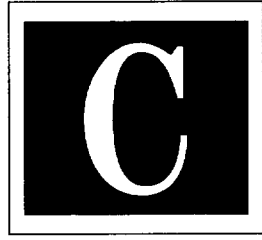
UP
GAM
BUCK
IAM
RRBDAM
(-xM, +yF)

UNISEX PENSION TABLES
GROUP ANNUITY MORTALITY TABLES
GEORGE M. BUCK MORTALITY TABLES
INDIVIDUAL ANNUITY MORTALITY TABLES
RAILROAD RET. BOARD DISABLED ANNUITANT MORTALITY TABLES
SET BACK FOR MALES (-xM); SET FORWARD FOR FEMALES (+yF)

Investment Return

DWRR
TWRR
YLD
ROR
ROI
NET RET
TOT RET
YTM
@MKT
@COST
@AV

DOLLAR-WEIGHTED RATE OF RETURN
TIME-WEIGHTED RATE OF RETURN
YIELD
RATE OF RETURN (NO WEIGHTING SPECIFIED)
RATE ON INVESTMENT
NET RETURN
TOTAL RETURN
YIELD TO MATURITY
MARKET BASIS USED FOR CALCULATING RETURN
COST BASIS USED FOR CALCULATING RETURN
ACTUARIAL VALUE USED FOR CALCULATING RETURN



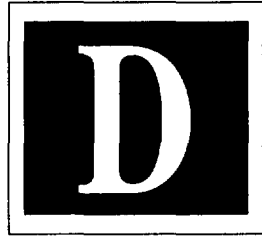
Listing of Respondents and Reports Received

TABLE C-1. LISTING OF RESPONDENTS AND REPORTS RECEIVED

SYSID	SYSTEM	FY	FIN-RPT	ACT-VAL	EXP-STDY	OTHER
0001	PUBLIC EMPLOYEES' RETIREMENT SYSTEMS OF NEVADA	6/30/92	CUFR93	AV93	EX85-89	
0002	NEW MEXICO EDUCATIONAL RETIREMENT SYSTEM	6/30/93	AR93	AV93	EX88-92	
0003	SOUTH CAROLINA RETIREMENT SYSTEMS	6/30/92	CUFR93	AV93	EX83-87	
0004	TEXAS MUNICIPAL RETIREMENT SYSTEM	12/31/92	CAFR93	AV93	EX88-92	
0005	RETIREMENT SYSTEMS OF ALABAMA	9/30/92	AR93	AV93	LETTERS	
0006	PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF MISSISSIPPI	6/30/92	CAFR93	AV93	EX91-92	
0007	STATE EMPLOYEES' RETIREMENT SYSTEM OF ILLINOIS	6/30/92	CUFR93	AV93	EX86-90	IR93
0010	TEACHERS' RETIREMENT SYSTEM OF LOUISIANA	6/30/92	CUFR93	AV93	EX81-86	
0013	PENNSYLVANIA PUBLIC SCHOOL EMPLOYEES' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	SUMMARY	
0015	CONNECTICUT TEACHERS' RETIREMENT FUND	6/30/92	SEE CT-SERS	AV92	EX86-89	
0019	OHIO STATE HIGHWAY PATROL RETIREMENT SYSTEM	12/31/92	CUFR93	AV93	EX85-89	
0034	ARKANSAS LOCAL POLICE & FIRE RETIREMENT SYSTEM	8/1/93	AR92	AV93	NR	
0043	MINNESOTA STATE RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX88-92	IR93
0048	KENTUCKY RETIREMENT SYSTEMS	6/30/92	AR93	AV93	EX84-89	
0055	NORTH DAKOTA TEACHERS' FUND FOR RETIREMENT	6/30/92	CUFR93	AV93	NA-REVISING	IR93
0057	WYOMING RETIREMENT SYSTEM	12/31/92	CUFR93	AV93	EX87-89	
0063	ILLINOIS STATE TEACHERS' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX88-92	
0064	EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA	6/30/92	AR93	AV93	EX85-90	
0066	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS	8/31/92	CAFR93	AV93	EX85-89	
0067	NEW JERSEY TEACHERS' PENSION AND ANNUITY FUND	6/30/92	AR93	AV93	EX88-91	IR93
0068	NEW JERSEY POLICE AND FIREMEN'S RETIREMENT SYSTEM	6/30/91	AR93	AV93	EX89-92	IR93
0069	NEW JERSEY PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	12/31/92	AR93	AV93	EX90-93	IR93
0071	LOUISIANA STATE EMPLOYEES' RETIREMENT SYSTEM	3/31/91	CUFR93	AV93	EX85-89	
0072	ARKANSAS TEACHERS' RETIREMENT SYSTEM	6/30/92	AR93	AV93	NR	
0076	NORTH CAROLINA TEACHER & STATE EMPLOYEES' RETIREMENT SYSTEMS	12/31/92	AR93	AV93	EX86-89	
0079	OHIO SCHOOL EMPLOYEES' RETIREMENT SYSTEM	6/30/92	CAFR93	AV93	EX86-90	
0083	OKLAHOMA TEACHERS' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX84-89	
0085	PUBLIC SCHOOL RETIREMENT SYSTEM OF MISSOURI	6/30/92	AR93	AV93	EX84-89	IR93
0086	NON-TEACHER SCHOOL EMPLOYEE RETIREMENT SYSTEM OF MISSOURI	6/30/92	AR93	AV93	EX84-89	
0087	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	6/30/91	CAFR93	FV96	EX89-93	
0096	TEACHER RETIREMENT SYSTEM OF TEXAS	8/31/92	CUFR93	AV93	EX86-90	IR93
0098	WISCONSIN RETIREMENT SYSTEMS	12/31/92	CAFR91	AV93	EX88-90	IR93
0104	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX89-92	
0106	KENTUCKY TEACHERS' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX82-88	
0107	CALIFORNIA STATE TEACHERS' RETIREMENT SYSTEM	6/30/92	AR93	AV93	EX88-91	IR93
0112	ARKANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	AV93	G/L93	IR94
0113	VIRGINIA RETIREMENT SYSTEM	6/30/92	CUFR93	AV92	EX88-92	
0121	PENNSYLVANIA STATE EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	AV93	EX86-90	IR93
0125	PUBLIC EMPLOYEES' RETIREMENT ASSOCIATION OF COLORADO	12/31/92	CAFR93	AV93	G/L93	
0134	HAWAII EMPLOYEES' RETIREMENT SYSTEM	6/30/90	CAFR93	AV93	EX85-89	
0137	NEW YORK STATE TEACHERS' RETIREMENT SYSTEM	6/30/91	AR93	AV93	EX89-93	IR93
0138	MISSOURI STATE EMPLOYEES' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	G/L93	
0139	PENNSYLVANIA MUNICIPAL RETIREMENT SYSTEM	12/31/92	CAFR93	AV93	EX88-93	IR93

TABLE C-1. LISTING OF RESPONDENTS AND REPORTS RECEIVED—Continued

SYSID	SYSTEM	FY	FIN-RPT	ACT-VAL	EXP-STDY	OTHER
0144	OREGON PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	6/30/92	CUFR93	AV91	EX93	
0145	OHIO PUBLIC EMPLOYEES' RETIREMENT SYSTEM	12/31/92	CAFR93	AV93	GL92	
0147	PUBLIC EMPLOYEE RETIREMENT SYSTEM OF IDAHO	6/30/92	CUFR93	AV93	EX87-91	IR93
0148	GEORGIA TEACHERS' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX84-89	
0151	IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	NR	
0154	NORTH DAKOTA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	AV93	EX86-91	IR93
0161	INDIANA STATE TEACHERS' RETIREMENT FUND	6/30/92	AR92	AV93	EX88-91	
0165	UTAH STATE RETIREMENT SYSTEMS	9/30/92	CUFR93	NA	NA	
0168	FLORIDA RETIREMENT SYSTEM	6/30/92	AR93	AV93	EX88-92	IR93
0169	OKLAHOMA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	AV93	EX89-92	
0170	DELAWARE STATE BOARD OF PENSIONS	6/30/92	NR	AV93	MINUTES	
0174	WASHINGTON STATE RETIREMENT FUNDS	6/30/92	CUFR93	AV93	EX85-88	IR93
0175	INDIANA PUBLIC EMPLOYEES' RETIREMENT FUND	6/30/91	AR93	AV93	WS	
0178	SOUTH DAKOTA RETIREMENT SYSTEMS	6/30/92	AR93	AV92	NA-REVISING	
0181	MICHIGAN PUBLIC SCHOOL EMPLOYEES RETIREMENT SYSTEM	9/30/92	AR93	AV93	WS	
0182	MICHIGAN STATE POLICE RETIREMENT SYSTEM	9/30/92	AR93	AV93	WS	
0183	MICHIGAN JUDGES RETIREMENT SYSTEM	9/30/92	AR93	AV93	WS	
0185	MICHIGAN STATE EMPLOYEES RETIREMENT SYSTEM	9/30/92	AR93	AV93	WS	
0186	MICHIGAN MUNICIPAL RETIREMENT SYSTEM	9/30/92	AR93	AV93	NA-NONE	
0191	OHIO STATE TEACHERS' RETIREMENT SYSTEM	6/30/92	CAFR93	AV93	EX93	
0193	KANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX89-92	DDB93
0193	KANSAS POLICE AND FIREMEN'S RETIREMENT SYSTEM	6/30/92	CUFR93	AV93	EX90-92	
0193	KANSAS RETIREMENT SYSTEM FOR JUDGES	6/30/92	CUFR93	AV93	EX90-92	
0195	MONTANA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	WS	WS	IR93
0195	MONTANA MUNICIPAL POLICE OFFICERS' RETIREMENT SYSTEM	6/30/92	AR93	WS	WS	IR93
0202	NEW YORK STATE & LOCAL RETIREMENT SYSTEMS	3/31/92	AR93	AV94	EX86-91	
0204	ARIZONA STATE RETIREMENT SYSTEM	6/30/91	CUFR93	AV93	EX86-91	
0235	NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEM	6/30/93	AUD92	AV93	EX88-93	
0278	CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	AR93	AV92	EX88-92	IR91
0302	CONNECTICUT STATE EMPLOYEES' RETIREMENT SYSTEM	5/31/92	AR93	AV93	EX87-92	
0303	ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	NR	AV93	EX86-91	
0304	ALASKA TEACHERS' RETIREMENT SYSTEM	6/30/92	NR	AV93	NR	
0349	MAINE STATE RETIREMENT SYSTEM	6/30/92	AR91	AV93	NA-REVISING	
0361	DISTRICT OF COLUMBIA RETIREMENT BOARD	9/30/92	AR93	AV95	NA	
0372	EMPLOYEES' RETIREMENT SYSTEM OF RHODE ISLAND		NR	NR	NR	
0373	PUBLIC EMPLOYEES' RETIREMENT BOARD OF NEW MEXICO	6/30/93	CUFR93	AV93	NA-NONE	IR94
0374	MARYLAND STATE RETIREMENT AGENCY	6/30/93	CAFR93	AV93	WS	
0375	COMMONWEALTH OF MASSACHUSETTS, STATE BOARD OF RETIREMENT	12/31/93	AR93	AV93	NA	
0376	WEST VIRGINIA CONSOLIDATED PUBLIC RETIREMENT BOARD	6/30/93	NR	AV93	EX86-91	
0377	VERMONT PUBLIC EMPLOYEES' RETIREMENT SYSTEM		NR	NR	NR	



Experience Study Data

TABLE D-1. PERS EXPERIENCE STUDIES: ACTUARIAL FIRMS, STUDY PERIODS AND METHODS

SYSPLAN	STATE	PLAN NAME	FIRM	PERIOD	METHOD
0001A	NV	PERS OF NEVADA GENERAL EMPLOYEES' PLAN	SEGAL	1985-89	HC
0001B	NV	PERS OF NEVADA POLICE/FIRE EMPLOYEES' PLAN	SEGAL	1985-89	HC
0002A	NM	NEW MEXICO EDUCATIONAL RETIREMENT BOARD PLAN	WYATT	1988-92	HC
0003A1	SC	SOUTH CAROLINA RETIREMENT SYSTEM - GENERAL PLAN	BUCK	1983-87	HC
0003A2	SC	SOUTH CAROLINA RETIREMENT SYSTEM - TEACHERS	BUCK	1983-87	HC
0004A	TX	TEXAS MUNICIPAL RETIREMENT SYSTEM - GENERAL PLAN	SEGAL	1988-92	HC
0006A	MS	PERS OF MISSISSIPPI - GENERAL PLAN	GRS&C	1990-92	HC
0006B*	MS	PERS OF MISSISSIPPI - HIGHWAY SAFETY PATROL RETIREMENT SYSTEM	GRS&C	1990-92	HC
0006C*	MS	PERS OF MISSISSIPPI - MUNICIPAL RETIREMENT SYSTEMS	GRS&C	1990-92	HC
0007A	IL	ILLINOIS STATE EMPLOYEES' RETIREMENT SYSTEM	WYATT	1986-90	NR
0010A	LA	TEACHERS' RETIREMENT SYSTEM OF LOUISIANA - REGULAR EMPLOYEES	HALL	1981-86	NR
0013A	PA	PENNSYLVANIA PUBLIC SCHOOL EMPLOYEES' RETIREMENT PLAN	NR	1986-90	NR
0015A	CT	CONNECTICUT TEACHERS' RETIREMENT SYSTEM	WYATT	1986-89	NR
0019A	OH	OHIO STATE HIGHWAY PATROL RETIREMENT PLAN	GRS&C	1985-89	HC
0043A	MN	MINNESOTA STATE RETIREMENT SYSTEM GENERAL EMPLOYEES' PLAN	M&R	1988-92	HC
0043B	MN	MINNESOTA STATE RETIREMENT SYSTEM STATE TROOPERS' RETIREMENT PLAN	M&R	1988-92	HC
0043C	MN	MINNESOTA STATE RETIREMENT SYSTEM CORRECTIONAL EMPLOYEES' PLAN	M&R	1988-92	HC
0048A	KY	KENTUCKY EMPLOYEES' RETIREMENT SYSTEM - GENERAL EMPLOYEES	MERCER	1984-89	HC
0048B	KY	KENTUCKY COUNTY EMPLOYEES' RETIREMENT SYSTEM	MERCER	1984-89	HC
0048C	KY	KENTUCKY EMPLOYEES' RETIREMENT SYSTEM - HAZARDOUS	MERCER	1984-89	HC
0048D	KY	KENTUCKY STATE POLICE RETIREMENT SYSTEM	MERCER	1984-89	HC
0048E	KY	KENTUCKY COUNTY EMPLOYEES' RETIREMENTS SYSTEM - HAZARDOUS	MERCER	1984-89	HC
0057D	WY	WYOMING PUBLIC EMPLOYEES' SYSTEM	SEGAL	1987-89	HC
0063A	IL	TEACHERS' RETIREMENT SYSTEMS OF ILLINOIS	BUCK	1988-92	HC
0064A	GA	EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA - GENERAL	BUCK	1985-90	HC
0066A	TX	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - GENERAL	TPF&C	1985-89	HC
0066B*	TX	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - LAW ENFORCEMENT	TPF&C	1985-89	HC
0066C*	TX	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - JUDICIAL	TPF&C	1985-89	HC
0067A	NJ	NEW JERSEY TEACHERS' PENSION AND ANNUITY FUND	BUCK	1988-91	HC
0068A	NJ	NEW JERSEY POLICE AND FIREMEN'S RETIREMENT SYSTEM	M&R	1989-92	HC
0069A	NJ	NEW JERSEY PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	BUCK	1990-93	HC
0071A	LA	LOUISIANA STATE EMPLOYEES' RETIREMENT SYSTEM	HALL	1985-89	NR
0076A	NC	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - GENERAL	BUCK	1986-89	HC
0076B*	NC	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - TEACHERS	BUCK	1986-89	HC
0076C*	NC	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - LAW ENFORCEMENT	BUCK	1986-89	HC
0079A	OH	OHIO SCHOOL EMPLOYEES' RETIREMENT SYSTEM	GRS&C	1985-90	NR
0083A	OK	OKLAHOMA TEACHERS' RETIREMENT SYSTEM	WYATT	1984-89	HC
0085A	MO	PUBLIC SCHOOL RETIREMENT SYSTEM OF MISSOURI	HAYES	1984-89	HC
0086A	MO	NON-TEACHER SCHOOL EMPLOYEE RETIREMENT SYSTEM OF MISSOURI	HAYES	1984-89	HC
0087A	NH	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	BUCK	1989-93	HC

TABLE D-1. PERS EXPERIENCE STUDIES: ACTUARIAL FIRMS, STUDY PERIODS AND METHODS—Continued

SYSPLAN	STATE	PLAN NAME	FIRM	PERIOD	METHOD
0087B*	NH	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - TEACHERS	BUCK	1989-93	HC
0087C*	NH	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - POLICE OFFICERS	BUCK	1989-93	HC
0087D*	NH	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - FIREFIGHTERS	BUCK	1989-93	HC
0096A	TX	TEACHER RETIREMENT SYSTEM OF TEXAS	WYATT	1985-90	HC
0098A	WI	WISCONSIN RETIREMENT SYSTEM - GENERAL	GRS&C	1988-90	HC
0098B	WI	WISCONSIN RETIREMENT SYSTEM - PROTECTIVES W/ SOC. SEC.	GRS&C	1988-90	HC
0098C	WI	WISCONSIN RETIREMENT SYSTEM - PROTECTIVES W/OUT SOC. SEC.	GRS&C	1988-90	HC
0098D	WI	WISCONSIN RETIREMENT SYSTEM - PLAN FOR ELECTED/EXECUTIVE	GRS&C	1988-90	HC
0098E*	WI	WISCONSIN RETIREMENT SYSTEM - TEACHERS	GRS&C	1988-90	HC
0104A	TN	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM - GENERAL AND LOCAL	BPS&M	1989-92	HC
0104B*	TN	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM - TEACHERS	BPS&M	1989-92	HC
0106A	KY	KENTUCKY TEACHERS' RETIREMENT SYSTEM	BUCK	1982-88	HC
0107A	CA	CALIFORNIA STATE TEACHERS' RETIREMENT SYSTEM	M&R	1988-91	HC
0112A	AR	ARKANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	GRS&C	1993	G/L
0113A	VA	VIRGINIA RETIREMENT SYSTEM - GENERAL	BUCK	1988-92	HC
0113B*	VA	VIRGINIA RETIREMENT SYSTEM - TEACHERS	BUCK	1988-92	HC
0121A	PA	PENNSYLVANIA STATE EMPLOYEES' RETIREMENT SYSTEM	NR	1986-90	HC
0125A	CO	PERA OF COLORADO - GENERAL	TP	1993	G/L
0134A	HI	HAWAII EMPLOYEES RETIREMENT SYSTEM - GENERAL	SEGAL	1985-89	HC
0134B*	HI	HAWAII EMPLOYEES RETIREMENT SYSTEM - TEACHERS	SEGAL	1985-89	HC
0134C*	HI	HAWAII EMPLOYEES RETIREMENT SYSTEM - POLICE/FIRE/CORRECTIONS	SEGAL	1985-89	HC
0137A	NY	NEW YORK STATE TEACHERS' RETIREMENT SYSTEM	INTERNAL	1989-93	HC
0138A	MO	MISSOURI STATE EMPLOYEES' RETIREMENT SYSTEM	GRS&C	1993	G/L
0139A	PA	PENNSYLVANIA MUNICIPAL RETIREMENT SYSTEM	SEGAL	1988-93	HC
0144A	OR	OREGON PERS - STATE GENERAL	M&R	1993	HC
0144B*	OR	OREGON PERS - STATE POLICE & FIRE	IN 144A	1993	HC
0144C*	OR	OREGON PERS - SCHOOL	M&R	1993	HC
0144D*	OR	OREGON PERS - LOCAL GENERAL	IN 144A	1993	HC
0144E*	OR	OREGON PERS - LOCAL POLICE & FIRE	IN 144A	1993	HC
0145A	OH	PERS OF OHIO - STATE	GRS&C	1992	G/L
0145B	OH	PERS OF OHIO - LAW ENFORCEMENT	GRS&C	1992	G/L
0145C*	OH	PERS OF OHIO - LOCAL GOVT.	GRS&C	1992	G/L
0147A	ID	PERS OF IDAHO - GENERAL MEMBERS	M&R	1987-91	HC
0147B	ID	PERS OF IDAHO - POLICE/FIRE MEMBERS	M&R	1987-91	HC
0147D*	ID	PERS OF IDAHO - TEACHER MEMBERS	M&R	1987-91	HC
0148A	GA	TEACHERS' RETIREMENT SYSTEM OF GEORGIA	BUCK	1984-89	HC
0154A	ND	NORTH DAKOTA PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	SEGAL	1986-91	HC
0154B	ND	NORTH DAKOTA HIGHWAY PATROL RETIREMENT PLAN	SEGAL	1986-91	HC
0161A	IN	INDIANA TEACHERS' RETIREMENT PLAN	GRS&C	1988-91	HC
0168A	FL	FLORIDA RETIREMENT SYSTEM - REGULAR EMPLOYEES	M&R	1988-92	NR

TABLE D-1. PERS EXPERIENCE STUDIES: ACTUARIAL FIRMS, STUDY PERIODS AND METHODS—Continued

SYSPLAN	STATE	PLAN NAME	FIRM	PERIOD	METHOD
0168B*	FL	FLORIDA RETIREMENT SYSTEM - SPECIAL RISK	M&R	1988-92	NR
0168B*	FL	FLORIDA RETIREMENT SYSTEM - TEACHERS	M&R	1988-92	NR
0169A	OK	OKLAHOMA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	MERCER	1989-92	HC
0169B*	OK	OKLAHOMA UNIFORM RETIREMENT SYSTEM FOR JUSTICES AND JUDGES	MERCER	1989-92	HC
0174A	WA	WASHINGTON PUBLIC EMPLOYEES' RETIREMENT SYSTEM - PLAN I	STATE ACTUARY	1985-88	HC
0174B	WA	WASHINGTON PUBLIC EMPLOYEES' RETIREMENT SYSTEM - PLAN II	STATE ACTUARY	1985-88	HC
0174C	WA	WASHINGTON TEACHERS' RETIREMENT SYSTEM - PLAN I	STATE ACTUARY	1985-88	HC
0174D	WA	WASHINGTON TEACHERS' RETIREMENT SYSTEM - PLAN II	STATE ACTUARY	1985-88	HC
0191A	OH	OHIO STATE TEACHERS' RETIREMENT SYSTEM	BUCK	1993	HC
0193A	KS	KANSAS PUBLIC EMPLOYEES' RETIREMENT PLAN	SEGAL	1989-92	HC
0193B	KS	KANSAS POLICE AND FIRE RETIREMENT SYSTEM	SEGAL	1989-92	HC
0202A	NY	NEW YORK STATE & LOCAL EMPLOYEES' RET. SYSTEM - GENERAL	INTERNAL	1986-91	HC
0202B	NY	NEW YORK STATE & LOCAL POLICE AND FIRE RETIREMENT SYSTEM	INTERNAL	1986-91	HC
0204A	AZ	ARIZONA STATE RETIREMENT SYSTEM	WYATT	1986-91	HC
0235A	NE	NEBRASKA PERS SCHOOL PLAN	TP	1988-93	HC
0235B	NE	NEBRASKA PERS STATE PATROL RETIREMENT PLAN	TP	1988-93	HC
0235C	NE	NEBRASKA PERS JUDGES' RETIREMENT PLAN	TP	1988-93	HC
0278A	CA	CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	INTERNAL	1988-92	HC
0302A	CT	CONNECTICUT STATE EMPLOYEES' RETIREMENT PLAN	M&R	1987-92	HC
0303A	AK	ALASKA PERS - GENERAL	MERCER	1986-91	HC
0303B*	AK	ALASKA PERS - POLICE & FIRE	MERCER	1986-91	HC

TABLE D-2. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO ACTIVE MORTALITY

SYSPLAN	AM ACTUAL	AM EXPECT	AM RATIO	AM RECOM
0001A	NR	NR	NR	NOT REPORTED
0001B	NR	NR	NR	NOT REPORTED
0002A	NR	NR	64.9%	INCREASE RATES FOR BOTH MALES AND FEMALES
0003A1	INCLUDED IN WITHDRAWALS			NOT REPORTED
0003A2	INCLUDED IN WITHDRAWALS			NOT REPORTED
0004A	669	899	74.4%	REDUCE RATES
0006A	218	608	35.8%	REDUCE RATES
0006B*	1	3	29.4%	REDUCE RATES
0006C*	1	11	9.3%	REDUCE RATES
0007A	NR	NR	61.5%	NO CHANGE
0010A	NR	NR	NR	NOT REPORTED
0013A	1,912	1,915	99.8%	NOT PROVIDED
0015A	NR	NR	NR	NOT REPORTED
0019A	6	13	46.2%	NO CHANGE
0043A	309	511	60.5%	ADOPT SEPARATE TABLE FOR ACTIVE MORTALITY
0043B	3	8	37.5%	NO CHANGE - TOO COSTLY
0043C	7	10	70.0%	NO CHANGE - TOO COSTLY
0048A	292	570	51.2%	CHANGE FROM 1971 GAM TO 1983 GAM
0048B	251	615	40.8%	CHANGE FROM 1971 GAM TO 1983 GAM
0048C	7	6	120.7%	CHANGE FROM 1971 GAM TO 1983 GAM
0048D	5	10	49.0%	CHANGE FROM 1971 GAM TO 1983 GAM
0048E	5	10	49.0%	CHANGE FROM 1971 GAM TO 1983 GAM
0057D	INCLUDED IN WITHDRAWALS			CHANGE TO 1983 GAM
0063A	479	1,357	35.3%	CHANGE FROM 1984 UP (-2) TO 1984 UP (-6)
0064A	422	918	46.0%	REDUCE RATES FOR BOTH MALES AND FEMALES
0066A	NR	NR	NR	INCREASE NON-OCCUPATIONAL MORTALITY RATES FOR MOST MEMBERS
0066B*	NR	NR	NR	INCREASE NON-OCCUPATIONAL MORTALITY RATES FOR MOST MEMBERS
0066C*	NR	NR	NR	USE SAME NON-OCCUPATIONAL RATES AS REGULAR STATE EMPLOYEES
0067A	483	615	78.5%	DECREASE RATES AT HIGHER AGES FOR MALES AND FEMALES
0068A	152	263	57.8%	REDUCE RATES FOR ALL AGE GROUPS
0069A	2,693	3,041	88.5%	REDUCE ORDINARY DEATH RATES BY 15% FOR LOCAL EMPLOYEES
0071A	NR	NR	NR	NOT REPORTED
0076A	192	399	48.1%	NO CHANGE
0076B*	86	323	26.6%	NO CHANGE
0076C*	4	7	61.5%	NO CHANGE
0079A	565	1,211	46.6%	LOWER RATES FOR ALL AGE GROUPS
0083A	395	728	54.3%	LOWER RATES
0085A	NR	NR	69.4%	CHANGE FROM 1983 GAM (-1) TO 1983 GAM(-2)
0086A	NR	NR	73.2%	NO CHANGE
0087A	139	65	212.5%	INCREASE RATES FOR MALES AND FEMALES

TABLE D-2. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO ACTIVE MORTALITY—Continued

SYSPLAN	AM ACTUAL	AM EXPECT	AM RATIO	AM RECOM
0087B*	54	35	156.5%	INCREASE RATES FOR MALES; REVISE RATES FOR FEMALES
0087C*	22	14	160.6%	NO CHANGE
0087D*	5	5	106.4%	NO CHANGE
0096A	3,902	4,079	95.7%	"FINE TUNE" RATES
0098A	297	NR	NR	REVISE RATES TO REFLECT EXPERIENCE
0098B	148	NR	NR	REVISE RATES TO REFLECT EXPERIENCE
0098C	23	NR	NR	REVISE RATES TO REFLECT EXPERIENCE
0098D	5	NR	NR	REVISE RATES TO REFLECT EXPERIENCE
0098E*	9	NR	NR	REVISE RATES TO REFLECT EXPERIENCE
0104A	388	413	93.9%	NO CHANGE
0104B*	248	319	77.8%	NO CHANGE
0106A	282	397	71.1%	REDUCE RATES
0107A	1,676	1,626	103.1%	NO CHANGE
0112A	NR	NR	NR	NOT REPORTED
0113A	723	1,019	71.0%	REDUCE RATES
0113B*	253	521	48.6%	REDUCE RATES
0121A	1,217	1,237	98.4%	RAISE RATES FOR FEMALES; LOWER FOR MALES
0125A	NR	NR	NR	NOT REPORTED
0134A	INCLUDED IN WITHDRAWALS			NOT REPORTED
0134B*	INCLUDED IN WITHDRAWALS			NOT REPORTED
0134C*	INCLUDED IN WITHDRAWALS			NOT REPORTED
0137A	944	1,128	83.7%	NO CHANGE; REVISIT IN 1995
0138A	42	95	44.3%	NOT REPORTED
0139A	INCLUDED IN WITHDRAWALS			NOT REPORTED
0144A	263	461	57.0%	REDUCE RATES FOR MALES AND FEMALES
0144B*	INCLUDED IN 144A			REDUCE RATES FOR MALES AND FEMALES
0144C*	159	162	98.1%	REDUCE RATES FOR MALES AND FEMALES
0144D*	INCLUDED IN 144A			REDUCE RATES FOR MALES AND FEMALES
0144E*	INCLUDED IN 144A			REDUCE RATES FOR MALES AND FEMALES
0145A	196	445	44.0%	NOT REPORTED
0145B	10	12	83.3%	NOT REPORTED
0145C*	339	959	35.3%	NOT REPORTED
0147A	NR	NR	NR	USE SAME TABLES AS USED FOR RETIRED MORTALITY
0147B	NR	NR	NR	USE SAME TABLES AS USED FOR RETIRED MORTALITY
0147D*	NR	NR	NR	USE SAME TABLES AS USED FOR RETIRED MORTALITY
0148A	627	798	78.6%	NO CHANGE
0154A	NR	NR	NR	NOT REPORTED
0154B	NR	NR	NR	NOT REPORTED
0161A	223	226	98.7%	CHANGE FROM 1983 GAM (-0M, -6F) TO 1983 GAM (-2M, -7F)
0168A	SLIGHTLY LOWER THAN EXPECTED			NO CHANGE

TABLE D-2. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO ACTIVE MORTALITY—Continued

SYSPLAN	AM ACTUAL	AM EXPECT	AM RATIO	AM RECOM
0168B*	SLIGHTLY LOWER THAN EXPECTED			NO CHANGE
0168B*	SLIGHTLY LOWER THAN EXPECTED			NO CHANGE
0169A	231	289	79.9%	NO CHANGE FROM 1983 GAM
0169B*	NR	NR	NR	NO CHANGE FROM 1983 GAM
0174A	NR	NR	NR	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (+1M,+1F)
0174B	NR	NR	NR	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (+1M,+1F)
0174C	NR	NR	NR	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (-3M,-1F)
0174D	NR	NR	NR	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (-3M,-1F)
0191A	151	325	46.5%	DECREASE RATES BY 45%
0193A	INCLUDED IN WITHDRAWALS			NO CHANGE
0193B	21	28	75.0%	NO CHANGE
0202A	4,655	5,312	87.6%	REDUCE RATES FOR ORDINARY DEATH BY 13% AND ACCIDENTAL DEATH BY 16%
0202B	189	244	103.4%	REDUCE RATES FOR ORDINARY AND ACCIDENTAL DEATH
0204A	1,492	1,295	115.2%	CHANGE FROM 1983 GAM (WITHOUT MARGIN) TO 1983 GAM (+1M, +3F)
0235A	INCLUDED IN WITHDRAWALS			NO CHANGE FROM TRAVELER'S ANNUITY PURCHASE TABLE (SET BACK 3 YEARS)
0235B	INCLUDED IN WITHDRAWALS			CHANGE FROM 1971 GAM TO 1983 GAM
0235C	INCLUDED IN WITHDRAWALS			NO CHANGE FROM 1971 GAM (-3)
0278A	3,691	8,523	43.3%	REVISE RATES
0302A	214	519	41.2%	CHANGE FROM 1983 GAM-M (-0M, -4F) TO 1983 GAM-M AND GAM-F
0303A	INCLUDED IN WITHDRAWALS			NOT REPORTED
0303B*	INCLUDED IN WITHDRAWALS			NOT REPORTED
COUNT	58	53	57	NA
AVG.	552	842	71.9%	NA
ST.DEV.	982	1,467	35.5%	NA

TABLE D-3. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABILITY ASSUMPTIONS

SYSPLAN	DR ACTUAL	DR EXPECT	DR RATIO	DR RECOM
0001A	52	43	120.9%	INCREASE DISABILITY RATES FOR AGE 40+ MEMBERS
0001B	11	8	137.5%	INCREASE DISABILITY RATES FOR AGE 40+ MEMBERS
0002A	113.3% MALES, 97.1% FEMALES			CHANGE RATES TO REFLECT EXPERIENCE OF MEMBERS WITH 10+ YEARS OF SERVICE
0003A1	INCLUDED IN WITHDRAWALS			NOT REPORTED
0003A2	INCLUDED IN WITHDRAWALS			NOT REPORTED
0004A	493	1,016	48.5%	REDUCE RATES
0006A	284	401	70.9%	NO CHANGE AT CURRENT TIME
0006B*	2	3	58.8%	NO CHANGE AT CURRENT TIME
0006C*	12	7	176.5%	NO CHANGE AT CURRENT TIME
0007A	98% MALE, 93% FEMALE			NO CHANGE IN RATES - EXTEND RATES TO AGE 70
0010A	NR	NR	NR	ADOPT HIGHER RATES FOR AGES 35-45
0013A	751	1,467	51.2%	NOT PROVIDED
0015A	NR	NR	NR	NO CHANGE
0019A	7	12	59.3%	LOWER DISABILITY RATES FOR ALL AGES
0043A	230	202	113.9%	NO CHANGE
0043B	3	8	37.5%	NO CHANGE
0043C	8	2	400.0%	ADOPT DISABILITY RATES BASED ON STATE TROOPERS FUND
0048A	324	315	102.8%	NO CHANGE
0048B	269	332	81.1%	NO CHANGE
0048C	2	3	69.0%	NO CHANGE
0048D	7	4	162.8%	NO CHANGE
0048E	10	6	158.7%	NO CHANGE
0057D	NR	NR	NR	NO CHANGE - NOT ENOUGH DATA
0063A	762	560	136.1%	EXTEND DISABILITY RATES FROM AGES 20-59 TO AGES 20-69.
0064A	687	2,037	33.7%	REDUCE RATES FOR BOTH MALES AND FEMALES
0066A	NR	NR	NR	INCREASE OCCUPATIONAL RATES FOR MOST MEMBERS
0066B*	NR	NR	NR	INCREASE OCCUPATIONAL RATES FOR MOST MEMBERS
0066C*	NR	NR	NR	USE SAME NON-OCCUPATIONAL RATES AS REGULAR STATE EMPLOYEES
0067A	233	317	73.4%	REDUCE RATES 30% FOR MEN, INCREASE RATES FOR YOUNGER WOMEN, REDUCE RATES FOR OLDER WOMEN
0068A	249	340	73.3%	REDUCE RATES FOR MOST AGE GROUPS
0069A	750	1,294	58.0%	REDUCE ORD. DISABILITY RATES FOR OLDER EMPLOYEES; INCREASE ACC. RATES 50% FOR LOC. EMPLOYEES
0071A	NR	NR	NR	NOT REPORTED
0076A	1,267	1,193	106.2%	INCREASE DISABILITY RATES FOR FEMALES
0076B*	475	646	73.5%	DECREASE RATES FOR MALES
0076C*	22	31	71.4%	NO RECOMMENDATION
0079A	884	482	183.4%	INCREASE RATES FOR ALL AGES TO REFLECT EXPERIENCE
0083A	212	958	22.1%	REDUCE RATES
0085A	NR	NR	86.8%	NO CHANGE
0086A	NR	NR	153.6%	INCREASE RATES BY 50%
0087A	99	126	78.4%	DECREASE RATES FOR MALES, REVISE FEMALES

TABLE D-3. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABILITY ASSUMPTIONS—Continued

SYSPLAN	DR ACTUAL	DR EXPECT	DR RATIO	DR RECOM
0087B*	17	52	32.7%	DECREASE RATES FOR MALES AND FEMALES
0087C*	43	74	57.9%	REVISE ACCIDENTAL; DECREASE ORDINARY
0087D*	17	44	38.5%	DECREASE RATES FOR MALES AND FEMALES
0096A	3,220	2,793	115.3%	INCREASE RATES FOR ALL AGES
0098A	494	724	68.2%	REDUCE RATES
0098B	179	350	51.1%	REDUCE RATES
0098C	34	69	49.3%	REDUCE RATES
0098D	15	22	68.2%	REDUCE RATES
0098E*	3	13	23.1%	REDUCE RATES
0104A	621	507	122.4%	NO CHANGE
0104B*	168	177	94.7%	NO CHANGE
0106A	468	449	104.2%	NO CHANGE
0107A	1,150	1,104	104.2%	NO CHANGE - DIFFICULTY CONFIRMING DATA
0112A	NR	NR	NR	NOT REPORTED
0113A	1,787	1,081	165.3%	INCREASE RATES FOR MALES AND FEMALES
0113B*	517	519	99.6%	REDUCE RATES FOR FEMALE TEACHERS
0121A	1,501	1,183	126.9%	RAISE RATES FOR MALES AND FEMALES
0125A	NR	NR	NR	NOT REPORTED
0134A	63	111	56.8%	REDUCE RATES BY ABOUT 80%
0134B*	13	20	65.0%	REDUCE RATES BY ABOUT 80%
0134C*	17	23	73.9%	REDUCE RATES; INCREASE PERCENTAGE OF ORDINARY DISABILITIES FROM 25% TO 50%
0137A	425	575	73.9%	NO CHANGE; REVISIT IN 1995
0138A	147	76	192.4%	NOT REPORTED
0139A	82	88	92.8%	NO CHANGE FROM 50% OF 1964 SOC. SEC. TABLES FOR MALES; REDUCE SERVICE RATE FOR MUNI. EMPLOYEES
0144A	214	411	52.1%	REDUCE RATES FOR MALES AND FEMALES
0144B*	10	12	83.3%	NO CHANGE IN ORDINARY RATES; REDUCE DUTY RATES
0144C*	351	516	68.0%	REDUCE RATES FOR MALES AND FEMALES
0144D*	133	235	56.6%	REDUCE RATES FOR MALES AND FEMALES
0144E*	48	73	65.8%	NO CHANGE IN ORDINARY RATES; REDUCE DUTY RATES
0145A	221	332	66.6%	NOT REPORTED
0145B	42	28	150.0%	NOT REPORTED
0145C*	380	705	53.9%	NOT REPORTED
0147A	128	153	83.7%	REDUCE RATES BY 10%
0147B	8	15	51.9%	INCREASE RATES BY 25%
0147D*	57	45	125.8%	REDUCE RATES BY 25%
0148A	509	902	56.4%	NO CHANGE
0154A	75	71	105.6%	INCREASE RATES
0154B	0	NR	NR	NO CHANGE
0161A	NR	NR	NR	NOT REPORTED
0168A	NR	NR	NR	NO CHANGE

TABLE D-3. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABILITY ASSUMPTIONS—Continued

SYSPLAN	DR ACTUAL	DR EXPECT	DR RATIO	DR RECOM
0168B*	NR	NR	NR	NO CHANGE
0168B*	NR	NR	NR	NO CHANGE
0169A	114	NR	NR	NO CHANGE
0169B*	NR	NR	NR	NOT REPORTED
0174A	500	517	96.7%	CHANGE TO REFLECT EXPERIENCE
0174B	INCLUDED IN 0174A			NO CHANGE
0174C	171	249	68.7%	REDUCE RATES BY 33% AT ALL AGES
0174D	INCLUDED IN 0174C			NO CHANGE FROM RATES BASED ON 1980-84 EXPERIENCE
0191A	353	355	99.4%	NO CHANGE
0193A	INCLUDED IN WITHDRAWALS			NO CHANGE
0193B	108	97	111.3%	NO CHANGE
0202A	4,600	2,197	209.4%	INCREASE RATES BY 50% FOR ORDINARY AND ACCIDENTAL DISABILITY
0202B	1,237	635	194.8%	INCREASE RATES BY 75% FOR ORDINARY DISABILITY
0204A	641	1,007	63.7%	NO CHANGE - MORE EXPERIENCE NEEDED
0235A	INCLUDED IN WITHDRAWAL			NO CHANGE
0235B	INCLUDED IN WITHDRAWAL			NO CHANGE
0235C	INCLUDED IN WITHDRAWAL			NO CHANGE FROM AN ASSUMED RATE OF 0
0278A	7,723	9,094	84.9%	MINOR ADJUSTMENTS IN RATES
0302A	436	794	54.9%	INCREASE RATES BY 120% FOR HAZ. DUTY EMPLOYEES AND 50% FOR NON-HAZ. DUTY EMPLOYEES
0303A	SHOWN IN GRAPHS			INCREASE RATES
0303B*	SHOWN IN GRAPHS			INCREASE RATES
COUNT	73	71	73	NA
AVG.	509	568	94.2%	NA
ST.DEV.	1,113	1,168	56.4%	NA

TABLE D-4. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO SERVICE RETIREMENT

SYSPLAN	SR ACTUAL	SR EXPECT	SR RATIO	SR RECOM
0001A	ASSUMED AGE = 62; ACTUAL = 62			NO CHANGE
0001B	ASSUMED AGE = 54; ACTUAL = 54			NO CHANGE
0002A	MALES = 193%; FEMALES = 178%			ADOPT SELECT AND ULTIMATE RETIREMENT RATES
0003A1	6,208	7,964	78.0%	REVISE RATES
0003A2	5,560	5,890	94.4%	REVISE RATES
0004A	MALES = 120%; FEMALES = 94%			ADOPT NEW RATES TO REFLECT TREND TOWARD EARLY RETIREMENT
0006A	5,147	4,601	111.9%	NO CHANGE - MORE EXPERIENCE IS NEEDED
0006B*	20	12	172.4%	NO CHANGE - MORE EXPERIENCE IS NEEDED
0006C*	184	76	243.4%	INCREASE RATES TO REFLECT EXPERIENCE
0007A	NR	NR	NR	CHANGE FROM SINGLE RETIREMENT AGE TO RATES OF RETIREMENT THAT VARY BY AGE
0010A	NR	NR	NR	ADOPT RATES AT AGES 40-49 TO REFLECT THOSE ELIGIBLE FOR 20 YEAR RETIREMENT
0013A	15,029	14,279	105.3%	NOT PROVIDED
0015A	NR	NR	NR	ADOPT RATES BASED ON AGE DISTRIBUTION (AGE 55 = 1%, AGE 60 = 15%, AGE 65 = 20%)
0019A	90	76	118.9%	NO CHANGE
0043A	3,060	3,515	87.1%	INCREASE ASSUMED RATES FOR MEMBERS < 65; DECREASE FOR MEMBERS =>65
0043B	74	77	96.1%	ADOPT RATES BASED ON AGE DISTRIBUTION (<54 = 2.0%, 55 = 60.0%, 56-65 = 20%, 65-69 = 50%)
0043C	79	80	98.8%	ADOPT RATES BASED ON AGE DISTRIBUTION (<54 = 2.0%, 55 = 50.0%, 56-61 = 20%, 62-65 = 50%)
0048A	NR	NR	97.0%	NO CHANGE
0048B	NR	NR	46.0%	NO CHANGE
0048C	ASSUMED AGE = 57.6; ACTUAL = 56.9			CHANGE FROM 40% TO 50% AT 1ST ELIGIBLE AGE; BALANCE AT AGE 60
0048D	ASSUMED AGE = 51.3; ACTUAL = 50.5			CHANGE FROM 40% TO 50% AT 1ST ELIGIBLE AGE; BALANCE AT AGE 55
0048E	ASSUMED AGE = 50.9; ACTUAL = 49.9			NO CHANGE
0057D	NR	NR	NR	ADOPT RATES BASED ON AGE (55 = 5%; 60 = 10%; 65 = 40%)
0063A	7,072	6,744	104.9%	NO CHANGE
0064A	3,491	3,835	91.0%	INCREASE RATES FOR YOUNGER AGES; ADJUST RATES AT HIGHER AGES
0066A	NR	NR	NR	NO CHANGE FOR MOST MEMBERS; SLIGHT REVISION FOR ELECTED OFFICIALS
0066B*	NR	NR	NR	NO CHANGE FOR MOST MEMBERS
0066C*	NR	NR	NR	APPLY RATES ONLY TO MEMBERS ELIGIBLE TO RETIRE
0067A	5,289	6,165	85.8%	REDUCE YOUNGER WOMEN'S RATES BY 10% AND OLDER WOMEN'S RATES BY 20%
0068A	2,326	2,037	114.2%	FINE-TUNE RATES
0069A	18,087	30,792	58.7%	INCLUDES MEMBERS WITHDRAWING WITH VESTED BENEFITS; THESE RATES SHOULD BE REDUCED
0071A	NR	NR	NR	NOT REPORTED
0076A	10,532	10,754	97.9%	INCREASE RATES FOR YOUNGER AGES AND ADJUST RATES AT HIGHER AGES
0076B*	7,448	6,868	108.5%	INCREASE RATES FOR YOUNGER AGES AND ADJUST RATES AT HIGHER AGES
0076C*	181	72	251.0%	INCREASE RATES FOR YOUNGER AGES AND ADJUST RATES AT HIGHER AGES
0079A	10,357	10,231	101.2%	NO CHANGE
0083A	NR	NR	NR	CHANGE FROM AGGREGATE TO SELECT AND ULTIMATE RATES
0085A	NR	NR	96.4%	INCREASE RATES FOR THOSE UNDER 65, LOWER RATE FOR THOSE OVER 65
0086A	NR	NR	94.8%	INCREASE RATES FOR THOSE UNDER AGE 60 WITH 32+ YEARS OF SERVICE
0087A	1,484	2,088	71.1%	REVISE FOR MALES AND FEMALES

TABLE D-4. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR ACTUAL	SR EXPECT	SR RATIO	SR RECOM
0087B*	672	836	80.4%	NO CHANGE
0087C*	183	249	73.5%	REVISE FOR MALES AND FEMALES
0087D*	106	124	85.8%	NO CHANGE
0096A	NR	NR	NR	NO CHANGE - NEED TO FURTHER STUDY RECENT LEGISLATIVE CHANGES
0098A	9,016	7,907	114.0%	NO CHANGE
0098B	5,931	4,201	141.2%	NO CHANGE
0098C	781	869	89.9%	NO CHANGE
0098D	307	310	99.0%	NO CHANGE
0098E*	239	221	108.1%	NO CHANGE
0104A	NR	NR	NR	NO CHANGE
0104B*	NR	NR	NR	NO CHANGE
0106A	5,127	4,828	106.2%	RAISE RATES FOR EARLIER AGES AND LOWER FOR LATER AGES
0107A	24,100	24,410	98.7%	MINOR CHANGES
0112A	NR	NR	NR	NOT REPORTED
0113A	5,920	7,641	77.5%	INCREASE RATES FOR AGES BEFORE AGE 60; REDUCE RATES AFTER AGE 60
0113B*	4,384	4,273	102.6%	INCREASE RATES FOR AGES BEFORE AGE 60; REDUCE RATES AFTER AGE 60
0121A	19,199	15,658	122.6%	EXCLUDE EARLY RETIREMENTS FROM CALCULATION OF LONG-TERM RTES
0125A	NR	NR	NR	NOT REPORTED
0134A	NR	NR	NR	NO CHANGE
0134B*	NR	NR	NR	REDUCE ASSUMED RETIREMENT AGE FOR TEACHERS FROM AGE 60 TO AGE 58
0134C*	NR	NR	NR	REVISE TO AGE 53 WITH 25 YS, BUT NOT LATER THAN AGE 55 WITH 10 YS
0137A	20,384	17,134	119.0%	NO CHANGE; REVISIT IN 1995
0138A	787	758	103.9%	NOT REPORTED
0139A	505	622	81.2%	ADJUST RATES; EXTEND ASSUMED RET. AGE TO THE EARLIER OF AGE 62 OR 4 YEARS AFTER ELIGIBILITY
0144A	3,275	3,482	94.1%	ADJUST RATES; ADD ASSUMPTION FOR MEMBERS COMPLETING 30 YEARS OF SERVICE
0144B*	194	186	104.3%	ADJUST RATES
0144C*	5,270	4,627	113.9%	ADJUST RATES; ADD ASSUMPTION FOR MEMBERS COMPLETING 30 YEARS OF SERVICE
0144D*	1,282	1,896	67.6%	ADJUST RATES
0144E*	361	351	102.8%	ADJUST RATES; ADD ASSUMPTION FOR MEMBERS COMPLETING 30 YEARS OF SERVICE
0145A	2,066	1,738	118.9%	NOT REPORTED
0145B	59	57	103.5%	NOT REPORTED
0145C*	2,743	4,439	61.8%	NOT REPORTED
0147A	2,254	2,375	94.9%	FINE-TUNE RATES
0147B	169	223	75.8%	FINE-TUNE RATES
0147D*	709	577	122.9%	FINE-TUNE RATES
0148A	7,294	7,299	99.9%	REVISE TO REFLECT HIGHER RATES THAN EXPECTED AT EARLY RETIREMENT AGES
0154A	1,432	NR	NR	DEVELOP RATES THAT VARY WITH AGE AND SEX
0154B	17	NR	NR	CHANGE TO FOLLOWING RATES (AGES 50-54 = 5%; AGE 55 OR RULE OF 80 = 40%; AGE 59 = 100%)
0161A	3,492	4,930	70.8%	FINE TUNE
0168A	NR	NR	NR	NO CHANGE

TABLE D-4. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR ACTUAL	SR EXPECT	SR RATIO	SR RECOM
0168B*	NR	NR	NR	NO CHANGE
0168B*	NR	NR	NR	NO CHANGE
0169A	2,523	2,611	96.6%	EXTEND AGE RANGE FROM 67 TO 70; MARGINAL ADJUSTMENTS IN RATES
0169B*	NR	NR	NR	NO CHANGE
0174A	NO SUMMARY RATES			CHANGE TO REFLECT CURRENT EXPERIENCE
0174B	NR	NR	NR	CHANGE TO REFLECT CURRENT EXPERIENCE
0174C	NO SUMMARY RATES			NO CHANGE FROM RATES BASED ON 1980-84 EXPERIENCE
0174D	NR	NR	NR	NO CHANGE FROM SOC. SEC. RATES FROM AGE 62
0191A	3,172	2,645	119.9%	INCREASE RATES FOR RETIREMENT WITH 30 YEARS OF SERVICE BY 15%
0193A	6,239	NR	NR	INCREASE RATES FOR YOUNGER EMPLOYEES
0193B	ASSUMED AGE=54.7, ACTUAL=55.7			NO CHANGE
0202A	40,488	40,230	100.6%	FINE TUNE
0202B	3,054	2,766	110.4%	CHANGE TO REFLECT EARLIER RETIREMENT AGES
0204A	NR	NR	94.2%	NO CHANGE - ADDITIONAL EXPERIENCE NEEDED
0235A	NO SUMMARY RATES		NR	INCREASE RATES FOR YOUNGER AGES; REDUCE RATES FOR 1ST YEAR OF ELIGIBILITY
0235B	NO SUMMARY RATES		NR	CHANGE FROM LATER OF AGE 55 OR 30 YEARS TO 50%@1ST ELIG. AGE & 10% PER YEAR THEREAFTER
0235C	NO SUMMARY RATES		NR	NO CHANGE
0278A	45,399	69,298	65.5%	REDUCE TO AVERAGE OF CURRENT AND 1985-89 EXPERIENCE STUDY
0302A	6,233	3,699	168.5%	FINE TUNE RATES - EARLY RETIREMENT PROGRAMS COMPLICATE ANALYSIS
0303A	NO SUMMARY RATES			INCREASE RATES FOR AGES BELOW AGE 58
0303B*	NO SUMMARY RATES			INCREASE RATES FOR AGES BELOW AGE 58
COUNT	58	55	60	NA
AVG.	5,812	6,539	103.6%	NA
ST.DEV.	8,948	11,566	34.9%	NA

TABLE D-5. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO WITHDRAWALS

SYSPLAN	AW ACTUAL	AW EXPECT	AW RATIO	AW RECOM
0001A	2,820	2,668	105.7%	NO CHANGE
0001B	226	221	102.3%	NO CHANGE
0002A	NR	NR	NR	ADOPT SELECT AND ULTIMATE WITHDRAWAL RATES
0003A1	29,880	22,873	130.6%	RATES OF WITHDRAWAL BE REVISED
0003A2	16,004	15,901	100.6%	RATES OF WITHDRAWAL BE REVISED
0004A	232	217	107.1%	REDUCE ASSUMED WITHDRAWAL RATES FOR MEMBERS WITH LESS THAN 20 YEARS OF SERVICE
0006A	21,307	21,498	99.1%	NO CHANGE
0006B*	12	19	61.9%	NO CHANGE
0006C*	15	12	126.1%	NO CHANGE
0007A	74% MALE; 80% FEMALE			REVISE RATES
0010A	NR	NR	NR	ADOPT RATES TO RECOGNIZE DURATION DEPENDENT TERMINATIONS
0013A	34,721	34,697	100.1%	NOT PROVIDED
0015A	NR	NR	NR	REDUCE RATES FOR THOSE WITH LESS THAN 10 YEARS OF SERVICE
0019A	134	184	72.7%	LOWER WITHDRAWAL RATES FOR AGES 25 TO 45
0043A	17,502	18,317	95.6%	ADOPT SELECT AND ULTIMATE RATES
0043B	19	38	50.0%	LOWER WITHDRAWAL ASSUMPTIONS
0043C	324	461	70.3%	LOWER WITHDRAWAL ASSUMPTIONS
0048A	NR	NR	51.0%	LOWER SELECT AND ULTIMATE RATES
0048B	NR	NR	51.0%	LOWER SELECT AND ULTIMATE RATES
0048C	24	32	74.8%	NO CHANGE
0048D	98	102	96.1%	NO CHANGE
0048E	66	84	78.9%	NO CHANGE
0057D	NR	NR	NR	LOWER RATES BY ADJUSTING TO REFLECT SERVICE
0063A	17,203	23,652	72.7%	NO CHANGE
0064A	20,661	21,865	94.5%	REDUCE RATES FOR LESS THAN 5 YRS OF SERVICE; INCREASE RATES FOR MORE THAN 5 YRS OF SERVICE
0066A	NR	NR	101.0%	NO CHANGE FOR MOST MEMBERS; USE FLAT RATE FOR ELECTED OFFICIALS
0066B*	NR	NR	NR	NO CHANGE FOR MOST MEMBERS
0066C*	NR	NR	NR	CHANGE FROM RATES VARYING BY AGE AND SERVICE TO FLAT RATE
0067A	8,745	9,574	91.3%	REDUCE RATES FOR MALES AND FEMALES GENERALLY; INCREASE RATES FOR FEMALES AGES 30 TO 35
0068A	1,284	2,446	52.5%	REDUCE RATES TO HALF-WAY BETWEEN PRIOR ASSUMPTIONS AND CURRENT EXPERIENCE
0069A	36,344	49,621	73.2%	REDUCE RATES BY 10% FOR STATE EMPLOYEES AND 25% TO 30% FOR LOCAL EMPLOYEES
0071A	NR	NR	NR	NOT REPORTED
0076A	42,395	37,397	113.4%	INCREASE RATES FOR > 5 YEARS OF SERVICE; DECREASE RATES FOR 5 YS OR LESS
0076B*	22,661	21,190	106.9%	INCREASE RATES FOR > 5 YEARS OF SERVICE; DECREASE RATES FOR 5 YS OR LESS
0076C*	275	452	60.8%	INCREASE RATES FOR > 5 YEARS OF SERVICE; DECREASE RATES FOR 5 YS OR LESS
0079A	44,565	18,913	235.6%	ADJUST ULTIMATE RATES SLIGHTLY AND USE SELECT RATES FOR FIRST 3 YEARS OF EMPLOYMENT
0083A	21,667	14,513	149.3%	CHANGE FROM AGGREGATE TO SELECT AND ULTIMATE ASSUMPTIONS
0085A	NR	NR	79.2%	REDUCE 1ST YR RATES BY 30%, 2ND YR RATES BY 20%, 3RD YR RATES BY 20% & ULTIMATE RATES BY 10%
0086A	NR	NR	99.6%	REDUCE FIRST YEAR SELECT RATES
0087A	2,741	7,138	38.4%	DECREASE FOR MALES AND FEMALES

TABLE D-5. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO WITHDRAWALS—Continued

SYSPLAN	AW ACTUAL	AW EXPECT	AW RATIO	AW RECOM
0087B*	1,074	2,981	36.0%	DECREASE FOR MALES AND FEMALES
0087C*	306	930	32.9%	DECREASE FOR MALES AND FEMALES
0087D*	64	159	40.2%	DECREASE FOR MALES AND FEMALES
0096A	NR	NR	84.0%	DECREASE WITHDRAWAL ASSUMPTION
0098A	16,792	21,694	77.4%	REDUCE RATES
0098B	668	1,034	64.6%	REDUCE RATES
0098C	69	110	62.7%	REDUCE RATES
0098D	181	117	154.7%	INCREASE RATES
0098E*	7,833	17,437	44.9%	REDUCE RATES
0104A	23,061	24,653	93.5%	NO CHANGE
0104B*	6,788	7,590	89.4%	POSSIBLY LOWER 1ST YEAR TURNOVER ASSUMPTION
0106A	10,289	13,630	75.5%	REDUCE RATES
0107A	40,785	35,537	114.8%	INCREASE RATES FOR EARLY DURATIONS
0112A	NR	NR	NR	NOT REPORTED
0113A	36,808	36,518	100.8%	NO CHANGE
0113B*	16,561	15,904	104.1%	NO CHANGE
0121A	15,932	14,131	112.7%	RAISE RATES FOR FEMALES; LOWER FOR MALES
0125A	NR	NR	NR	NOT REPORTED
0134A	5,825	6,860	84.9%	REDUCE ASSUMED RATES
0134B*	2,275	2,392	95.1%	REDUCE ASSUMED RATES FOR TEACHERS UNDER 35
0134C*	599	616	97.2%	REVISE AND SLIGHTLY REDUCE RATES
0137A	26,857	33,000	81.4%	NO CHANGE; REVISIT IN 1995
0138A	3,442	3,537	97.3%	NOT REPORTED
0139A	NR	NR	NR	REDUCE RATES FOR FEMALES AND UNIFORMED EMPLOYEES WITH LESS THAN 7 YEARS OF SERVICE
0144A	26,500	26,717	99.2%	NO CHANGE - NEED MORE DATA
0144B*	INCLUDED IN 144A			NO CHANGE - NEED MORE DATA
0144C*	INCLUDED IN 144A			NO CHANGE - NEED MORE DATA
0144D*	INCLUDED IN 144A			NO CHANGE - NEED MORE DATA
0144E*	INCLUDED IN 144A			NO CHANGE - NEED MORE DATA
0145A	9,239	9,340	98.9%	NOT REPORTED
0145B	184	312	59.0%	NOT REPORTED
0145C*	20,277	19,661	103.1%	NOT REPORTED
0147A	14,988	16,271	92.1%	INCREASE EARLY RETIREMENT RATES; DECREASE IMMEDIATE RETIREMENT RATES
0147B	905	1,449	62.5%	INCREASE IMMEDIATE AND SERVICE RETIREMENT RATES; DECREASE EARLY RETIREMENT RATES
0147D*	3,006	3,607	83.3%	INCREASE SERVICE AND EARLY RETIREMENT RATES FOR FEMALES; DECREASE FOR MALES
0148A	46,225	47,147	98.0%	NO CHANGE
0154A	6,623	NR	NR	DEVELOP SELECT AND ULTIMATE RATES
0154B	8	NR	NR	CHANGE FROM AGE BASED RATES TO AGE AND SERVICE BASED RATES
0161A	NOT SUMMARIZED IN TABLES			LOWER RATES, CHANGE TO SELECT AND ULTIMATE TABLE
0168A	NR	NR	80.0%	NO CHANGE

TABLE D-5. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO WITHDRAWALS—Continued

SYSPLAN	AW ACTUAL	AW EXPECT	AW RATIO	AW RECOM
0168B*	LOWER THAN EXPECTED			NO CHANGE
0168B*	LOWER THAN EXPECTED			NO CHANGE
0169A	3,328	3,932	84.6%	REVISE SELECT RATES; NO CHANGE TO ULTIMATE RATES
0169B*	NR	NR	NR	NONE
0174A	30% LOWER THAN EXPECTED			LOWER RATES FOR ALL AGES; INCLUDE 10YR SELECT PERIOD
0174B	30% LOWER THAN EXPECTED			LOWER RATES FOR ALL AGES; INCLUDE 10YR SELECT PERIOD
0174C	2% HIGHER THAN EXPECTED			NO CHANGE FROM 1980-84 RATES WITH 10YR SELECT PERIOD
0174D	2% HIGHER THAN EXPECTED			NO CHANGE FROM 1980-84 RATES WITH 10YR SELECT PERIOD
0191A	8,668	4,567	189.8%	DECREASE RATES FOR VESTED TERMINATIONS BY 20%; INCREASE RATES FOR NON-VESTED BY 200%
0193A	20,803	26,266	79.2%	REDUCE RATES BY AN AVERAGE OF ONE PERCENTAGE POINT
0193B	703	588	119.5%	NO CHANGE
0202A	104,110	121,907	85.4%	CONSIDER SELECT AND ULTIMATE TABLES
0202B	2,053	3,018	68.0%	REFLECT 20% REDUCTION IN VESTED WITHDRAWALS & 35% REDUCTION IN NON-VESTED WITHDRAWALS
0204A	NR	NR	75.4%	DECREASE RATES FOR MALES AND FEMALES
0235A	NO SUMMARY RATES		NR	INCREASE MALE RATES BELOW AGE 40 AND AGES 55 TO 64; INCREASE FEMALE RATES BELOW AGE 65
0235B	28	19	150.2%	CHANGE FROM 50% T-1 OF ACTUARY'S HANDBOOK TO 1.5% FOR < 15YS - 0% 15+ YS
0235C	7	0	NR	NO CHANGE FROM AN ASSUMED RATE OF 0
0278A	26,099	45,375	57.5%	REDUCE RATES TO AVERAGE OF CURRENT AND 1985-89 EXPERIENCE STUDY
0302A	12,095	22,793	53.1%	SHORTEN SELECT PERIOD FROM 5 TO 3 YRS; CHANGE RATES (+10% FEMALES, -60% HAZ. DUTY EMPLOYEES)
0303A	SHOWN IN GRAPHS		NR	INCREASE RATES
0303B*	SHOWN IN GRAPHS		NR	INCREASE RATES
COUNT	67	65	72	NA
AVG.	12,895	14,091	89.2%	NA
ST.DEV.	17,420	19,223	33.6%	NA

TABLE D-6. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO RETIRED MORTALITY

SYSPLAN	RM ACTUAL	RM EXPECT	RM RATIO	RM RECOM
0001A	211	181	116.6%	NO CHANGE
0001B	18	12	150.0%	NO CHANGE
0002A	MALES = 114%; FEMALES = 97%			USE 1983 GAM (-1M, -1F)
0003A1	1,702	2,403	70.8%	REVISE RATES
0003A2	1,960	2,887	67.9%	REVISE RATES
0004A	1,502	1,245	120.6%	NO CHANGE
0006A	2,624	2,213	118.6%	CHANGE TABLES FOR FEMALE RETIREES
0006B*	14	18	76.1%	NO CHANGE - NEED MORE EXPERIENCE
0006C*	75	106	70.5%	CHANGE TABLES TO REFLECT ACTUAL EXPERIENCE
0007A	MALES = 106%; FEMALES = 105%			NO CHANGE
0010A	NR	NR	NR	SWITCH FROM 1971 GAM TO 1983 GAM (-0M, +1F)
0013A	16,124	15,160	106.4%	NOT PROVIDED
0015A	NR	NR	NR	NO CHANGE; CONTINUE TO MONITOR
0019A	6	13	46.2%	NO CHANGE
0043A	2,218	2,070	107.1%	REDUCE RATES FOR MALES
0043B	71	58	122.4%	NO CHANGE
0043C	49	41	119.5%	NO CHANGE
0048A	2,368	2,217	106.8%	CHANGE FROM 1971 GAM TO 1983 GAM
0048B	1,404	1,231	114.0%	CHANGE FROM 1971 GAM TO 1983 GAM
0048C	11	7	157.1%	CHANGE FROM 1971 GAM TO 1983 GAM
0048D	28	14	204.4%	CHANGE FROM 1971 GAM TO 1983 GAM
0048E	37	10	389.5%	CHANGE FROM 1971 GAM TO 1983 GAM
0057D	1,071	1,100	97.4%	CHANGE FROM 1971 GAM TO 1983 GAM(NO MARGINS)
0063A	5,040	5,996	84.1%	NO CHANGE
0064A	1,691	1,794	94.3%	REDUCE RATES FOR WOMEN
0066A	NR	NR	NR	CHANGE FROM UP-84 (W/ SETBACKS) TO 1983 GAM
0066B*	NR	NR	NR	CHANGE FROM UP-84 (W/ SETBACKS) TO 1983 GAM
0066C*	NR	NR	NR	CHANGE FROM UP-84 (W/ SETBACKS) TO 1983 GAM
0067A	3,479	3,798	91.6%	CHANGE FROM 1984 BUCK MORTALITY TABLE TO 1989 BUCK MORTALITY TABLE
0068A	522	676	77.2%	USE UP-84 FOR AGES UP TO 64 & 1983 GAM FOR MALES OVER AGE 70; INTERPOLATE FOR AGES IN BETWEEN
0069A	7,151	7,785	91.9%	REDUCE RATES
0071A	NR	NR	NR	CHANGE FROM 1971 GAM TO 1983 GAM (-0M, +1F)
0076A	3,470	3,501	99.1%	DECREASE FEMALE RATES
0076B*	3,391	3,326	102.0%	DECREASE MALE RATES
0076C*	52	87	59.6%	DECREASE RATES
0079A	6,558	6,311	103.9%	INCREASE MALE RATES
0083A	3,457	4,248	81.4%	CHANGE TO 1983 GAM (-1M, -1F)
0085A	NR	NR	108.8%	CHANGE FROM 1983 GAM (-1) TO 1983 GAM (-2)
0086A	NR	NR	122.2%	NO CHANGE
0087A	NR	NR	NR	NO CHANGE

TABLE D-6. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO RETIRED MORTALITY—Continued

SYSPLAN	RM ACTUAL	RM EXPECT	RM RATIO	RM RECOM
0087B*	NR	NR	NR	CURRENT WITH 2 YR SETBACK
0087C*	NR	NR	NR	ELIMINATE SETBACK
0087D*	NR	NR	NR	ELIMINATE SETBACK
0096A	16,274	18,215	89.3%	CHANGE TO 1983 GAM (-2M, -1F)
0098A	NR	NR	95.3%	REVISE RATES TO REFLECT EXPERIENCE
0098B	NR	NR	95.3%	REVISE RATES TO REFLECT EXPERIENCE
0098C	NR	NR	95.3%	REVISE RATES TO REFLECT EXPERIENCE
0098D	NR	NR	95.3%	REVISE RATES TO REFLECT EXPERIENCE
0098E*	NR	NR	95.3%	REVISE RATES TO REFLECT EXPERIENCE
0104A	3,471	3,407	101.9%	NO CHANGE
0104B*	3,579	3,617	99.0%	NO CHANGE
0106A	2,646	2,711	97.6%	NO CHANGE
0107A	10,773	10,421	103.4%	NO CHANGE
0112A	NR	NR	NR	NOT REPORTED
0113A	3,400	3,411	99.7%	REDUCE RATES FOR MALES
0113B*	2,183	2,445	89.3%	REDUCE RATES FOR MALES
0121A	11,960	10,583	113.0%	NO CHANGE FROM 1971 GAM
0125A	NR	NR	NR	NOT REPORTED
0134A	1,169	1,329	88.0%	CHANGE FROM 1971 GAM TO 1983 GAM (W/OUT MARGINS)
0134B*	366	438	83.6%	CHANGE FROM 1983 GAM (W/OUT MARGINS) TO 1983 GAM (WITH MARGINS)
0134C*	26	28	92.9%	CHANGE FROM 1971 GAM TO 1983 GAM (W/OUT MARGINS)
0137A	9,037	10,292	87.8%	NO CHANGE; REVISIT IN 1995
0138A	NR	NR	NR	NOT REPORTED
0139A	356	311	114.5%	CHANGE FROM 1971 GAM (-6F) TO 1983 GAM (-6F)
0144A	2,568	2,775	92.5%	REDUCE RATES FOR MALES
0144B*	INCLUDED IN 144A			REDUCE RATES FOR MALES
0144C*	2,094	2,221	94.3%	REDUCE RATES FOR MALES AND FEMALES
0144D*	INCLUDED IN 144A			REDUCE RATES FOR MALES
0144E*	INCLUDED IN 144A			REDUCE RATES FOR MALES
0145A	NR	NR	NR	NOT REPORTED
0145B	NR	NR	NR	NOT REPORTED
0145C*	NR	NR	NR	NOT REPORTED
0147A	479	534	89.7%	LOWER MALE AND FEMALE RATES
0147B	51	56	91.1%	LOWER MALE RATES
0147D*	340	332	102.4%	LOWER MALE AND FEMALE RATES
0148A	2,737	2,814	97.3%	LOWER MALE RATES
0154A	398	355	112.1%	NO CHANGE FROM 1983 GAM
0154B	2	3	66.7%	NO CHANGE FROM 1983 GAM
0161A	2,676	3,276	81.7%	CHANGE FROM 1983 GAM (-0M, -6F) TO 1983 GAM (-2M, -7F)
0168A	VERY FAVORABLE			NO CHANGE

TABLE D-6. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO RETIRED MORTALITY—Continued

SYSPLAN	RM ACTUAL	RM EXPECT	RM RATIO	RM RECOM
0168B*	VERY FAVORABLE			NO CHANGE
0168B*	VERY FAVORABLE			NO CHANGE
0169A	1,132	835	135.6%	NO CHANGE FROM 1983 GAM
0169B*	NR	NR	NR	NO CHANGE FROM 1983 GAM
0174A	5,003	5,164	96.9%	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (+1M,+1F)
0174B	INCLUDED IN 0174A			CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (+1M,+1F)
0174C	2,226	2,305	96.6%	CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (-3M,-1F)
0174D	INCLUDED IN 0174C			CHANGE FROM 1971 GAM (+2M,+0F) TO 1983 GAM (-3M,-1F)
0191A	2,150	2,209	97.3%	UPDATE ANNUITY TABLE TO 1983 GAM (1992 PROJECTION)
0193A	3,839	3,609	106.4%	NO CHANGE
0193B	69	68	101.5%	NO CHANGE FROM 1983 GAM (W/OUT MARGIN)
0202A	NR	NR	NR	REDUCE RATES BY 10% FOR MALES
0202B	NR	NR	103.8%	CHANGE TO REFLECT 17% REDUCTION IN PENSION MORTALITY
0204A	2,908	3,105	93.7%	CHANGE FROM 1983 GAM (W/OUT MARGINS) TO 1983 GAM (WITH MARGINS)
0235A	HIGHER THAN EXPECTED			NO CHANGE FROM TRAVELER'S ANNUITY PURCHASE TABLE (SET BACK 3 YEARS)
0235B	LOWER THAN EXPECTED			CHANGE FROM 1971 GAM TO 1983 GAM
0235C	LOWER THAN EXPECTED			NO CHANGE FROM 1971 GAM (-3)
0278A	21,944	19,902	110.3%	INCREASE RATES SLIGHTLY FOR MALES AND FEMALES
0302A	2,167	2,758	78.6%	CHANGE FROM 1983 GAM-M (-0M, -4F) TO 1983 GAM-M AND GAM-F
0303A	NR	NR	NR	CHANGE FROM 1984 UP (-1.5M, -1.5F) TO UP-84 (+1M, -4F)
0303B*	NR	NR	NR	CHANGE FROM 1984 UP (-1.5M, -1.5F) TO UP-84 (+19)
COUNT	60	60	68	NA
AVG.	3,072	3,134	103.9%	NA
ST.DEV.	4,358	4,268	41.7%	NA

TABLE D-7. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABLED MORTALITY

SYSPLAN	DM ACTUAL	DM EXPECT	DM RATIO	DM RECOM
0001A	NR	NR	NR	NOT REPORTED
0001B	NR	NR	NR	NOT REPORTED
0002A	NR	NR	NR	NO CHANGE
0003A1	470	470	99.9%	NOT REPORTED
0003A2	281	278	101.2%	NOT REPORTED
0004A	218	160	136.4%	CHANGE FROM 70% OF RATES IN THE 1965 RRB TABLE TO THE 1983 RRB TABLE
0006A	151	237	63.8%	CHANGE TABLES TO REFLECT ACTUAL EXPERIENCE
0006B*	3	4	69.8%	NO CHANGE - NEED MORE EXPERIENCE
0006C*	8	25	31.6%	CHANGE TABLES TO REFLECT ACTUAL EXPERIENCE
0007A	118% MALES; 92% FEMALES			REVISE RATES TO REFLECT EXPERIENCE
0010A	NR	NR	NR	NOT REPORTED
0013A	NR	NR	NR	NOT PROVIDED
0015A	NR	NR	NR	NOT REPORTED
0019A	NR	NR	NR	NOT REPORTED
0043A	48	17	282.4%	NO CHANGE
0043B	NR	NR	NR	NOT REPORTED
0043C	NR	NR	NR	NOT REPORTED
0048A	309	240	128.9%	NO CHANGE
0048B	184	117	157.4%	NO CHANGE
0048C	1	0.1	1000.0%	NO CHANGE
0048D	2	1	333.3%	NO CHANGE
0048E	5	1	384.6%	NO CHANGE
0057D	7	NR	NR	CHANGE TO PBGC DISABLED LIFE MORTALITY TABLE
0063A	148	78	189.3%	CONTINUE USING PBGC (-3) WITH RATES FOR AGES <65 EQUALING RATES FOR AGE 65
0064A	294	119	247.5%	NO CHANGE
0066A	NR	NR	NR	NO CHANGE
0066B*	NR	NR	NR	NO CHANGE
0066C*	NR	NR	NR	NO CHANGE
0067A	183	184	99.3%	NO CHANGE
0068A	104	147	71.0%	NO CHANGE
0069A	423	485	87.2%	REDUCE RATES
0071A	NR	NR	NR	NOT REPORTED
0076A	1,275	1,297	98.3%	NOT REPORTED
0076B*	544	571	95.3%	NOT REPORTED
0076C*	27	24	111.6%	NOT REPORTED
0079A	698	410	170.2%	INCREASE RATES FOR MALES AND FEMALES
0083A	134	246	54.5%	ADOPT PBGC TABLES Va AND VIa
0085A	NR	NR	111.2%	NO CHANGE
0086A	NR	NR	86.2%	NO CHANGE
0087A	NR	NR	NR	NO CHANGE

TABLE D-7. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABLED MORTALITY—Continued

SYSPLAN	DM ACTUAL	DM EXPECT	DM RATIO	DM RECOM
0087B*	NR	NR	NR	NO CHANGE
0087C*	NR	NR	NR	NO CHANGE
0087D*	NR	NR	NR	NO CHANGE
0096A	1,484	1,387	107.0%	MODIFY TABLE
0098A	NR	NR	NR	NOT REPORTED
0098B	NR	NR	NR	NOT REPORTED
0098C	NR	NR	NR	NOT REPORTED
0098D	NR	NR	NR	NOT REPORTED
0098E*	NR	NR	NR	NOT REPORTED
0104A	NR	NR	105.0%	NO CHANGE
0104B*	NR	NR	105.0%	NO CHANGE
0106A	270	289	93.3%	NO CHANGE
0107A	578	604	95.7%	POST-1972: SWITCH FROM 1951 GAM (+2M@170%, -2F@160%) TO 1983 GAM (MIN. 3%M, MIN. 2%F)
0112A	NR	NR	NR	NOT REPORTED
0113A	395	386	102.3%	INCREASE RATES FOR MALES
0113B*	1,035	758	136.6%	INCREASE RATES FOR MALES
0121A	840	1,035	81.2%	USE FEDERAL CIVIL SERVICE DISABILITY MORTALITY TABLE (ADJUSTED)
0125A	NR	NR	NR	NOT REPORTED
0134A	123	148	83.1%	KEEP ASSUMPTION THAT DISABLED MORTALITY IS EQUAL TO HEALTH MORTALITY + 10 YEARS
0134B*	22	30	73.3%	KEEP ASSUMPTION THAT DISABLED MORTALITY IS EQUAL TO HEALTH MORTALITY + 10 YEARS
0134C*	21	32	65.6%	KEEP ASSUMPTION THAT DISABLED MORTALITY IS EQUAL TO HEALTH MORTALITY + 10 YEARS
0137A	406	421	96.4%	NO CHANGE
0138A	NR	NR	NR	NOT REPORTED
0139A	42	23	182.6%	CHANGE FROM 5-YEAR SET-FORWARD TO 10-YEAR SET FORWARD
0144A	408	424	96.2%	REDUCE RATES FOR MALES; INCREASE RATES FOR FEMALES
0144B*	INCLUDED IN 144A			REDUCE RATES FOR MALES; INCREASE RATES FOR FEMALES
0144C*	INCLUDED IN 144A			REDUCE RATES FOR MALES; INCREASE RATES FOR FEMALES
0144D*	INCLUDED IN 144A			REDUCE RATES FOR MALES; INCREASE RATES FOR FEMALES
0144E*	INCLUDED IN 144A			REDUCE RATES FOR MALES; INCREASE RATES FOR FEMALES
0145A	NR	NR	NR	NOT REPORTED
0145B	NR	NR	NR	NOT REPORTED
0145C*	NR	NR	NR	NOT REPORTED
0147A	32	36	88.2%	CHANGE TO 1983 RRB DAM (-0M,-10F)
0147B	7	8	86.4%	CHANGE TO 1983 RRB DAM (-0M,-10F)
0147D*	17	17	101.2%	CHANGE TO 1983 RRB DAM (-0M,-10F)
0148A	336	304	110.5%	NO CHANGE
0154A	21	16	131.3%	NO CHANGE FROM PBGC TABLES FOR PARTICIPANTS RECEIVING SOC. SEC.
0154B	0	NR	NR	NO CHANGE FROM PBGC TABLES FOR PARTICIPANTS RECEIVING SOC. SEC.
0161A	NR	NR	NR	NOT REPORTED
0168A	VERY FAVORABLE			NO CHANGE

TABLE D-7. PERS EXPERIENCE STUDIES: FINDINGS AND RECOMMENDATIONS RELATED TO DISABLED MORTALITY—Continued

SYSPLAN	DM ACTUAL	DM EXPECT	DM RATIO	DM RECOM
0168B*	VERY FAVORABLE			NO CHANGE
0168B*	VERY FAVORABLE			NO CHANGE
0169A	NR	NR	NR	NO CHANGE - 1983 RRB ULTIMATE MORTALITY TABLE
0169B*	NR	NR	NR	NO CHANGE - 1983 RRB ULTIMATE MORTALITY TABLE
0174A	NR	NR	NR	CHANGE FROM 1977 RRB DAM (-0M,-25%F) TO 1983 GAM (+1M>0.045, +1F>0.03)
0174B	NR	NR	NR	CHANGE FROM 1977 RRB DAM (-0M,-25%F) TO 1983 GAM (+1M>0.045, +1F>0.03)
0174C	NR	NR	NR	CHANGE FROM 1977 RRB DAM (-0M,-25%F) TO 1983 GAM (+1M>0.045, +1F>0.03)
0174D	NR	NR	NR	CHANGE FROM 1977 RRB DAM (-0M,-25%F) TO 1983 GAM (+1M>0.045, +1F>0.03)
0191A	NR	NR	NR	NOT REPORTED
0193A	NR	NR	NR	NOT REPORTED
0193B	5	6	83.3%	NO CHANGE
0202A	NR	NR	NR	REDUCE RATES BY 5% FOR MALES AND 10% FOR FEMALES
0202B	NR	NR	93.7%	CHANGE TO REFLECT 25% REDUCTION IN DISABILITY MORTALITY
0204A	129	NR	NR	NO CHANGE - MORE EXPERIENCE NEEDED
0235A	NR	NR	NR	NOT REPORTED
0235B	NR	NR	NR	NOT REPORTED
0235C	NR	NR	NR	NOT REPORTED
0278A	3,904	3,261	119.7%	INCREASE RATES FOR ORDINARY DISABILITY; DECREASE FOR INDUSTRIAL DISABILITY
0302A	263	611	43.0%	CHANGE FROM 1965 RRB DAM TO 50% 1965 RRB DAM
0303A	NR	NR	NR	NO CHANGE FROM PBGC TABLES
0303B*	NR	NR	NR	NO CHANGE FROM PBGC TABLES
COUNT	45	42	47	NA
AVG.	352	355	138.1%	NA
ST.DEV.	640	571	145.8%	NA

TABLE D-8. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO INVESTMENT ASSUMPTIONS

SYSPLAN	INV RECOM
0001A	NO CHANGE
0001B	NO CHANGE
0002A	INCREASE FROM 7.25% TO 8.0%
0003A1	NO CHANGE
0003A2	NO CHANGE
0004A	REDUCE FROM 8.5% TO 8.0%
0006A	NOT EVALUATED
0006B*	NOT EVALUATED
0006C*	NOT EVALUATED
0007A	NO CHANGE
0010A	INCREASE FROM 7.5% TO 8.25%
0013A	NOT PROVIDED
0015A	INCREASE FROM 8.0% TO 8.5%
0019A	NO CHANGE
0043A	NO CHANGE
0043B	NO CHANGE
0043C	NO CHANGE
0048A	NO CHANGE
0048B	NO CHANGE
0048C	NO CHANGE
0048D	NO CHANGE
0048E	NO CHANGE
0057D	NO CHANGE
0063A	NO CHANGE
0064A	NOT REPORTED
0066A	REDUCE INFLATION FROM 5.75% TO 4.5%; INCREASE REAL RETURN FROM 2.75% TO 4.0%
0066B*	REDUCE INFLATION FROM 5.75% TO 4.5%; INCREASE REAL RETURN FROM 2.75% TO 3.5%
0066C*	REDUCE INFLATION FROM 5.75% TO 4.5%; INCREASE REAL RETURN FROM 2.75% TO 4.0%
0067A	NOT REPORTED
0068A	NOT REPORTED
0069A	NO CHANGE
0071A	INCREASE FROM 7.5% TO 8.25%
0076A	NOT REPORTED
0076B*	NOT REPORTED
0076C*	NOT REPORTED
0079A	NOT REPORTED
0083A	INCREASE FROM 7.5% TO 8.0%; TIE TO INFLATION
0085A	NO CHANGE FROM 8.0%
0086A	NO CHANGE FROM 8.0%
0087A	NOT REPORTED

TABLE D-8. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO INVESTMENT ASSUMPTIONS—Continued

SYSPLAN	INV RECOM
0087B*	NOT REPORTED
0087C*	NOT REPORTED
0087D*	NOT REPORTED
0096A	NO CHANGE
0098A	INCREASE FROM 7.8% TO 8.0%
0098B	INCREASE FROM 7.8% TO 8.0%
0098C	INCREASE FROM 7.8% TO 8.0%
0098D	INCREASE FROM 7.8% TO 8.0%
0098E*	INCREASE FROM 7.8% TO 8.0%
0104A	NO CHANGE FROM 8%
0104B*	NO CHANGE FROM 8%
0106A	NOT REPORTED
0107A	NO CHANGE FROM 8.5%
0112A	NOT REPORTED
0113A	NOT REPORTED
0113B*	NOT REPORTED
0121A	USE 9.9% FALLING TO 6.0% AFTER 2010
0125A	NOT REPORTED
0134A	NO CHANGE FROM 8.0%
0134B*	NO CHANGE FROM 8.0%
0134C*	NO CHANGE FROM 8.0%
0137A	NOT REPORTED
0138A	NOT REPORTED
0139A	NO CHANGE FROM 6.5%
0144A	NOT REPORTED
0144B*	NOT REPORTED
0144C*	NOT REPORTED
0144D*	NOT REPORTED
0144E*	NOT REPORTED
0145A	NOT REPORTED
0145B	NOT REPORTED
0145C*	NOT REPORTED
0147A	INCREASE FROM 7.95% TO 8.0%
0147B	INCREASE FROM 7.95% TO 8.0%
0147D*	INCREASE FROM 7.95% TO 8.0%
0148A	NOT REPORTED
0154A	CHOICE - KEEP 8.0% OR INCREASE TO 8.5%
0154B	CHOICE - KEEP 8.0% OR INCREASE TO 8.5%
0161A	NO CHANGE FROM 7.5%
0168A	NO CHANGE FROM 8.0%

TABLE D-8. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO INVESTMENT ASSUMPTIONS—Continued

SYSPLAN	INV RECOM
0168B*	NO CHANGE FROM 8.0%
0168B*	NO CHANGE FROM 8.0%
0169A	NO CHANGE FROM 7.5%
0169B*	NOT REPORTED
0174A	NO CHANGE FROM 7.5%
0174B	NO CHANGE FROM 7.5%
0174C	NO CHANGE FROM 7.5%
0174D	NO CHANGE FROM 7.5%
0191A	NO CHANGE - REVIEW
0193A	NO CHANGE FROM 8.0%
0193B	NO CHANGE FROM 8.0%
0202A	NO CHANGE FROM 8.75%
0202B	NO CHANGE FROM 8.75%
0204A	NO CHANGE FROM 8.0%
0235A	REDUCE FROM 8.5% TO 7.5%
0235B	REDUCE FROM 8.5% TO 7.5%
0235C	REDUCE FROM 8.5% TO 7.5%
0278A	NOT REPORTED
0302A	NO CHANGE FROM 8.5%
0303A	REDUCE FROM 9.0% TO 8.75%
0303B*	REDUCE FROM 9.0% TO 8.75%

TABLE D-9. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO SALARY INCREASE ASSUMPTIONS

SYSPLAN	SAL RECOM
0001A	NO CHANGE
0001B	NO CHANGE
0002A	CHANGE FROM FLAT 5% TO STEP/PROMOTIONAL RATE BASED ON YEARS OF SERVICE
0003A1	NO CHANGE
0003A2	NO CHANGE
0004A	NO CHANGE
0006A	NO CHANGE - INSUFFICIENT EXPERIENCE
0006B*	NO CHANGE
0006C*	NO CHANGE - INSUFFICIENT EXPERIENCE
0007A	ADOPT AGE-BASED SALARY SCALE: 9% AT AGE 22 FALLING TO 5.0% AT AGE 62
0010A	INCREASE INFLATION BY 0.75%; ADOPT RATES WITH LARGER INCREASES AT AGES NEAR RETIREMENT
0013A	NOT PROVIDED
0015A	INCREASE MERIT/STEP RATE FOR MEMBERS WITH 16+ YEARS OF SERVICE
0019A	NO CHANGE
0043A	CHANGE FROM FLAT 4.5% RATE TO 4.0% FOR INFLATION + MERIT/STEP RATES BASED ON AGE OR YEARS OF SERVICE
0043B	CHANGE FROM FLAT 6.5% RATE TO 5.0% FOR INFLATION + MERIT/STEP RATES BASED ON YEARS OF SERVICE
0043C	CHANGE FROM FLAT 6.5% RATE TO 5.0% FOR INFLATION + MERIT/STEP RATES BASED ON YEARS OF SERVICE
0048A	REDUCE FROM 7.5% TO 6.5%
0048B	REDUCE FROM 7.5% TO 6.5%
0048C	REDUCE FROM 7.5% TO 6.5%
0048D	REDUCE FROM 7.5% TO 6.5%
0048E	REDUCE FROM 7.5% TO 6.5%
0057D	NO CHANGE
0063A	NO CHANGE
0064A	NOT REPORTED
0066A	CHANGE COMPONENT RATES; AVERAGE RATE FALLS FROM 9.15% TO 7.9%
0066B*	CHANGE COMPONENT RATES; AVERAGE RATE FALLS FROM 9.29% TO 7.9%
0066C*	CHANGE COMPONENT RATES; AVERAGE RATE REMAINS AT 7.0%
0067A	NO CHANGE
0068A	NOT REPORTED
0069A	NO CHANGE
0071A	INCREASE INFLATION FROM 3.5% TO 4.25%
0076A	NOT REPORTED
0076B*	NOT REPORTED
0076C*	NO CHANGE
0079A	NO CHANGE
0083A	CHANGE TO INFLATION+MERIT/STEP RATE STRUCTURE BASED ON YEARS OF SERVICE; SET INFLATION ASSUMPTION AT 5.0%
0085A	KEEP 6.0% INFLATION RATE; INCREASE LOWER END OF MERIT/STEP SCALE
0086A	KEEP 6.0% INFLATION RATE; INCREASE LOWER END OF MERIT/STEP SCALE
0087A	NO CHANGE

**TABLE D-9. PERS EXPERIENCE STUDIES: RECOMMENDATIONS
RELATED TO SALARY INCREASE ASSUMPTIONS—Continued**

SYSPLAN	SAL RECOM
0087B*	NO CHANGE
0087C*	INCREASE AT LOWER AGES
0087D*	NO CHANGE
0096A	REDUCE GENERAL INCREASE RATE FROM 6.5% TO 5.75%; LENGTHEN SELECT STEP-RATE PERIOD FROM 10 TO 20 YEARS
0098A	INCREASE MERIT/STEP RATES AT AGE 20; REDUCE FOR OLDER AGES
0098B	NO CHANGE
0098C	NO CHANGE
0098D	NO CHANGE
0098E*	NO CHANGE
0104A	POSSIBLY REDUCE FROM 7.0% TO 6.5%
0104B*	POSSIBLY REDUCE FROM 7.0% TO 6.5%
0106A	NO CHANGE - WAIT UNTIL CHANGE IN INVESTMENT ASSUMPTION
0107A	NO CHANGE (INF. @ 5.0%, GEN. WAGE AT 6.5%)
0112A	NOT REPORTED
0113A	REDUCE RATES FOR YOUNGER AGES
0113B*	REDUCE RATES FOR YOUNGER AGES
0121A	USE GENERAL SALARY RATES OF 4.0% TO 4.5% AND 2.5% FOR MERIT/STEP RATES
0125A	NOT REPORTED
0134A	NO CHANGE FROM 6.5%, W/ 5.0% INFLATION
0134B*	NO CHANGE FROM 6.5%, W/ 5.0% INFLATION
0134C*	NO CHANGE FROM 6.5%, W/ 5.0% INFLATION
0137A	NO CHANGE; REVISIT IN 1995
0138A	NOT REPORTED
0139A	CHANGE FROM FLAT RATE TO AGE-SPECIFIC SCALE WITH 4.0% FOR INFLATION AND MERIT RANGING FROM 4.9% TO 0%
0144A	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.5%; SMALL REDUCTIONS IN MERIT/STEP RATES
0144B*	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.5%; SMALL REDUCTIONS IN MERIT/STEP RATES
0144C*	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.5%; SMALL REDUCTIONS IN MERIT/STEP RATES
0144D*	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.5%; SMALL REDUCTIONS IN MERIT/STEP RATES
0144E*	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.5%; SMALL REDUCTIONS IN MERIT/STEP RATES
0145A	NOT REPORTED
0145B	NOT REPORTED
0145C*	NOT REPORTED
0147A	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.75%; LOWER MERIT/STEP RATES
0147B	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.75%; INCREASE MERIT/STEP RATES
0147D*	CHANGE GENERAL WAGE RATE FROM 6.0% TO 5.75%; INCREASE MERIT/STEP RATES
0148A	NO CHANGE
0154A	CHOICE - SCALE RANGING FROM 6.9% TO 5.5% OR SCALE RANGING FROM 7.4% TO 6.0%
0154B	CHOICE - SCALE RANGING FROM 6.9% TO 5.5% OR SCALE RANGING FROM 7.4% TO 6.0%
0161A	NO CHANGE FROM 5.5% INFLATION ASSUMPTION
0168A	KEEP INFLATION AT 5.5%, MERIT/STEP AT 2.0%

**TABLE D-9. PERS EXPERIENCE STUDIES: RECOMMENDATIONS
RELATED TO SALARY INCREASE ASSUMPTIONS—Continued**

SYSPLAN	SAL RECOM
0168B*	KEEP INFLATION AT 5.5%, MERIT/STEP AT 2.0%
0168B*	KEEP INFLATION AT 5.5%, MERIT/STEP AT 2.0%
0169A	REDUCE INFLATION FROM 5.0% TO 4.7%; SLIGHT REDUCTION IN MERIT/STEP RATES
0169B*	REDUCE EARNINGS ASSUMPTION FROM 6.0% TO 5.5%
0174A	NOT REPORTED
0174B	NOT REPORTED
0174C	NOT REPORTED
0174D	NOT REPORTED
0191A	REDUCE FROM AVERAGE OF 6.25% TO 5.0%
0193A	NO CHANGE FROM 5.0% INFLATION + MERIT/STEP INCREASES
0193B	NO CHANGE FROM 5.0% INFLATION + MERIT/STEP INCREASES
0202A	UPDATE SALARY SCALES TO REFLECT EXPERIENCE BUT RETAIN OVERALL LEVEL OF 7.0%
0202B	UPDATE SALARY SCALES TO REFLECT EXPERIENCE BUT RETAIN OVERALL LEVEL OF 7.3%
0204A	KEEP GENERAL INCREASE AT 5.5%; INCREASE MERIT COMPONENT SLIGHTLY
0235A	NOT REPORTED
0235B	CHANGE FROM 10%@AGE20 - 6%@AGE55 TO 9%@AGE25 - 5%@AGE55
0235C	REDUCE RATE BY 0.5% TO REFLECT LOWER INFLATION OUTLOOK
0278A	NOT REPORTED
0302A	CHANGE FROM AGE-BASED SCALE TO SERVICE-BASED SCALE (0YS = 14.0%, 10YS = 5.45%)
0303A	NO CHANGE FROM 5.0% INFLATION; 0.5% PRODUCTIVITY; 1.0% MERIT
0303B*	NO CHANGE FROM 5.0% INFLATION; 0.5% PRODUCTIVITY; 1.0% MERIT

**TABLE D-10. PERS EXPERIENCE STUDIES: RECOMMENDATIONS
RELATED TO THE PAYROLL GROWTH ASSUMPTION**

SYSPLAN	PAYGRO REC
0001A	INCREASE TO 7%
0001B	INCREASE TO 8%
0002A	NOT REPORTED
0003A1	NOT REPORTED
0003A2	NOT REPORTED
0004A	INCREASE PAYROLL GROWTH TO BETWEEN 4% AND 6%
0006A	NOT REPORTED
0006B*	NOT REPORTED
0006C*	NOT REPORTED
0007A	NOT REPORTED
0010A	NOT REPORTED
0013A	NOT REPORTED
0015A	NOT REPORTED
0019A	NOT REPORTED
0043A	CHANGE FROM FLAT 6.5% RATE TO REFLECT GROWTH IN PAY + GROWTH IN NUMBER OF EMPLOYEES
0043B	CHANGE FROM FLAT 6.5% RATE TO REFLECT 5.0% GROWTH IN PAY + 1.0% GROWTH IN NUMBER OF EMPLOYEES
0043C	CHANGE FROM FLAT 6.5% RATE TO REFLECT 5.0% GROWTH IN PAY + 2.0% GROWTH IN NUMBER OF EMPLOYEES
0048A	NOT REPORTED
0048B	NOT REPORTED
0048C	NOT REPORTED
0048D	NOT REPORTED
0048E	NOT REPORTED
0057D	NOT REPORTED
0063A	NOT REPORTED
0064A	NOT REPORTED
0066A	REDUCE FROM 8.25% TO 7.0%
0066B*	REDUCE FROM 8.25% TO 7.0%
0066C*	NONE ASSUMED
0067A	NOT REPORTED
0068A	NOT REPORTED
0069A	NOT REPORTED
0071A	NOT REPORTED
0076A	NOT REPORTED
0076B*	NOT REPORTED
0076C*	NOT REPORTED
0079A	NOT REPORTED
0083A	NOT REPORTED
0085A	NOT REPORTED
0086A	NOT REPORTED
0087A	NOT REPORTED

TABLE D-10. PERS EXPERIENCE STUDIES: RECOMMENDATIONS
RELATED TO THE PAYROLL GROWTH ASSUMPTION—*Continued*

SYSPLAN	PAYGRO_REC
0087B*	NOT REPORTED
0087C*	NOT REPORTED
0087D*	NOT REPORTED
0096A	NOT REPORTED
0098A	NOT REPORTED
0098B	NOT REPORTED
0098C	NOT REPORTED
0098D	NOT REPORTED
0098E*	NOT REPORTED
0104A	NOT REPORTED
0104B*	NOT REPORTED
0106A	NOT REPORTED
0107A	CHANGE INCREASE IN ACTIVE MEMBERS FROM 0.5% TO 0.75%
0112A	NOT REPORTED
0113A	NOT REPORTED
0113B*	NOT REPORTED
0121A	NOT REPORTED
0125A	NOT REPORTED
0134A	NOT REPORTED
0134B*	NOT REPORTED
0134C*	NOT REPORTED
0137A	NOT REPORTED
0138A	NOT REPORTED
0139A	NOT REPORTED
0144A	NOT REPORTED
0144B*	NOT REPORTED
0144C*	NOT REPORTED
0144D*	NOT REPORTED
0144E*	NOT REPORTED
0145A	NOT REPORTED
0145B	NOT REPORTED
0145C*	NOT REPORTED
0147A	NOT REPORTED
0147B	NOT REPORTED
0147D*	NOT REPORTED
0148A	NOT REPORTED
0154A	NOT REPORTED
0154B	NOT REPORTED
0161A	NOT REPORTED
0168A	KEEP (5.5% INFLATION, 1.5% MEMBER GROWTH)

**TABLE D-10. PERS EXPERIENCE STUDIES: RECOMMENDATIONS
RELATED TO THE PAYROLL GROWTH ASSUMPTION—*Continued***

SYSPLAN	PAYGRO REC
0168B*	KEEP (5.5% INFLATION, 1.5% MEMBER GROWTH)
0168B*	KEEP (5.5% INFLATION, 1.5% MEMBER GROWTH)
0169A	NOT REPORTED
0169B*	NOT REPORTED
0174A	CHANGE MEMBERSHIP GROWTH FROM 1.0% PER YEAR TO 1.25% PER YEAR
0174B	CHANGE MEMBERSHIP GROWTH FROM 1.0% PER YEAR TO 1.25% PER YEAR
0174C	CHANGE MEMBERSHIP GROWTH FROM 1.0% PER YEAR TO 0.75% PER YEAR
0174D	CHANGE MEMBERSHIP GROWTH FROM 1.0% PER YEAR TO 0.75% PER YEAR
0191A	REDUCE FROM 5.875% TO 5.25%
0193A	NOT REPORTED
0193B	NOT REPORTED
0202A	NOT REPORTED
0202B	NOT REPORTED
0204A	NOT REPORTED
0235A	NOT REPORTED
0235B	NOT REPORTED
0235C	NOT REPORTED
0278A	NOT REPORTED
0302A	NOT REPORTED
0303A	NOT REPORTED
0303B*	NOT REPORTED

TABLE D-11. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO ACTUARIAL COST AND ASSET VALUATION METHODS

SYSPLAN	AV METH	AVA METH
0001A	NO CHANGE	NO CHANGE
0001B	NO CHANGE	NO CHANGE
0002A	NO CHANGE	RECONSIDER IN 1994
0003A1	NOT REPORTED	NOT REPORTED
0003A2	NOT REPORTED	NOT REPORTED
0004A	NOT REPORTED	NOT REPORTED
0006A	NOT REPORTED	NOT REPORTED
0006B*	NOT REPORTED	NOT REPORTED
0006C*	NOT REPORTED	NOT REPORTED
0007A	NOT REPORTED	NOT REPORTED
0010A	NOT REPORTED	USE 4 YEAR MOVING AVERAGE FOR EQUITIES
0013A	NOT PROVIDED	NOT REPORTED
0015A	NOT REPORTED	NOT REPORTED
0019A	NO CHANGE	NOT REPORTED
0043A	NOT REPORTED	NOT REPORTED
0043B	NOT REPORTED	NOT REPORTED
0043C	NOT REPORTED	NOT REPORTED
0048A	NOT REPORTED	NOT REPORTED
0048B	NOT REPORTED	NOT REPORTED
0048C	NOT REPORTED	NOT REPORTED
0048D	NOT REPORTED	NOT REPORTED
0048E	NOT REPORTED	NOT REPORTED
0057D	NOT REPORTED	NOT REPORTED
0063A	NO CHANGE	NO CHANGE
0064A	NOT REPORTED	NOT REPORTED
0066A	NOT REPORTED	NO CHANGE
0066B*	NOT REPORTED	NO CHANGE
0066C*	NOT REPORTED	NO CHANGE
0067A	NOT REPORTED	NOT REPORTED
0068A	NOT REPORTED	NOT REPORTED
0069A	NOT REPORTED	NOT REPORTED
0071A	NOT REPORTED	NOT REPORTED
0076A	NOT REPORTED	NOT REPORTED
0076B*	NOT REPORTED	NOT REPORTED
0076C*	NOT REPORTED	NOT REPORTED
0079A	NOT REPORTED	NOT REPORTED
0083A	CHANGE FROM FIL TO EA-O (30 YEARS)	NOT REPORTED
0085A	BASE NORMAL COST FOR NEW MEMBERS ON AVERAGE ENTRY AGE	NOT REPORTED
0086A	NOT REPORTED	NOT REPORTED
0087A	NOT REPORTED	NOT REPORTED

TABLE D-11. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO ACTUARIAL COST AND ASSET VALUATION METHODS—Continued

SYSPLAN	AV METH	AVA METH
0087B*	NOT REPORTED	NOT REPORTED
0087C*	NOT REPORTED	NOT REPORTED
0087D*	NOT REPORTED	NOT REPORTED
0096A	NOT REPORTED	NOT REPORTED
0098A	NOT REPORTED	NOT REPORTED
0098B	NOT REPORTED	NOT REPORTED
0098C	NOT REPORTED	NOT REPORTED
0098D	NOT REPORTED	NOT REPORTED
0098E*	NOT REPORTED	NOT REPORTED
0104A	NOT REPORTED	NOT REPORTED
0104B*	NOT REPORTED	NOT REPORTED
0106A	NOT REPORTED	NOT REPORTED
0107A	NO CHANGE	USE MARKET SMOOTHED BY 60 MONTH TREND IN S&P 500 FOR EQUITIES
0112A	NOT REPORTED	NOT REPORTED
0113A	NOT REPORTED	NOT REPORTED
0113B*	NOT REPORTED	NOT REPORTED
0121A	NOT REPORTED	NOT REPORTED
0125A	NOT REPORTED	NOT REPORTED
0134A	NOT REPORTED	NOT REPORTED
0134B*	NOT REPORTED	NOT REPORTED
0134C*	NOT REPORTED	NOT REPORTED
0137A	NOT REPORTED	NOT REPORTED
0138A	NOT REPORTED	NOT REPORTED
0139A	NOT REPORTED	NOT REPORTED
0144A	NO CHANGE	VALUE MORTGAGES AT MARKET
0144B*	NO CHANGE	VALUE MORTGAGES AT MARKET
0144C*	NO CHANGE	VALUE MORTGAGES AT MARKET
0144D*	NO CHANGE	VALUE MORTGAGES AT MARKET
0144E*	NO CHANGE	VALUE MORTGAGES AT MARKET
0145A	NA	NA
0145B	NA	NA
0145C*	NA	NA
0147A	NOT REPORTED	NO CHANGE
0147B	NOT REPORTED	NO CHANGE
0147D*	NOT REPORTED	NO CHANGE
0148A	NOT REPORTED	NOT REPORTED
0154A	NO CHANGE FROM EA METHOD	NO CHANGE FROM 5YR SMOOTHING
0154B	NO CHANGE FROM EA METHOD	NO CHANGE FROM 5YR SMOOTHING
0161A	NOT REPORTED	NOT REPORTED
0168A	NOT REPORTED	NOT REPORTED

TABLE D-11. PERS EXPERIENCE STUDIES: RECOMMENDATIONS RELATED TO ACTUARIAL COST AND ASSET VALUATION METHODS—Continued

SYSPLAN	AV METH	AVA METH
0168B*	NOT REPORTED	NOT REPORTED
0168B*	NOT REPORTED	NOT REPORTED
0169A	NOT REPORTED	KEEP 5-YEAR SMOOTHING; USE RATE OF 7.5% FOR INTEREST EARNINGS
0169B*	NOT REPORTED	KEEP 5-YEAR SMOOTHING; USE RATE OF 7.5% FOR INTEREST EARNINGS
0174A	NO CHANGE FROM EA-C (2025)	NO CHANGE FROM 18M SMOOTHING
0174B	NO CHANGE FROM AGG	NO CHANGE FROM 18M SMOOTHING
0174C	NO CHANGE FROM EA-C (2014)	NO CHANGE FROM 18M SMOOTHING
0174D	NO CHANGE FROM AGG	NO CHANGE FROM 18M SMOOTHING
0191A	NOT REPORTED	USE 3-YEAR MOVING MARKET AVERAGE
0193A	NOT REPORTED	CHANGE FROM COST TO AVERAGE OF COST AND MARKET
0193B	NOT REPORTED	NOT REPORTED
0202A	NOT REPORTED	NOT REPORTED
0202B	NOT REPORTED	NOT REPORTED
0204A	NOT REPORTED	NO CHANGE
0235A	NOT REPORTED	NOT REPORTED
0235B	NOT REPORTED	NOT REPORTED
0235C	NOT REPORTED	NOT REPORTED
0278A	NOT REPORTED	NOT REPORTED
0302A	NOT REPORTED	NOT REPORTED
0303A	NO CHANGE FROM PUC	NO CHANGE FROM 5-YEAR AVERAGE
0303B*	NO CHANGE FROM PUC	NO CHANGE FROM 5-YEAR AVERAGE



Valuation Report Data

Table E-1. PERS ACTUARIAL VALUATIONS: PLAN ACTUARY, COST METHOD AND ASSET VALUATION METHODS

SYSPLAN	PLAN NAME	STATE	DATE	ACTUARY	A-METHOD	AV-EQ	AV-FX
0001A	PERS OF NEVADA GENERAL EMPLOYEES' PLAN	NV	6/30/93	SEGAL	EA-C	MKT	MKT
0001B	PERS OF NEVADA POLICE/FIRE EMPLOYEES' PLAN	NV	6/30/93	SEGAL	EA-C	MKT	MKT
0002A	NEW MEXICO EDUCATIONAL RETIREMENT BOARD PLAN	NM	6/30/93	WYATT	EA	COST	ACOST
0003A	SOUTH CAROLINA RETIREMENT SYSTEM - GENERAL PLAN	SC	7/1/93	BUCK	EA-O	NA	ACOST
0003A1	SOUTH CAROLINA RETIREMENT SYSTEM - TEACHERS	SC	7/1/93	BUCK	EA-O	NA	ACOST
0003B	SOUTH CAROLINA RETIREMENT SYSTEM - POLICE OFFICERS	SC	7/1/93	BUCK	EA-O	NA	ACOST
0003C*	SOUTH CAROLINA RETIREMENT SYSTEM - JUDGES	SC	7/1/93	BUCK	EA-O	NA	ACOST
0004A	TEXAS MUNICIPAL RETIREMENT SYSTEM GENERAL PLAN	TX	12/31/93	SEGAL	UC-O	COST	ACOST
0005A	RETIREMENT SYSTEMS OF ALABAMA EMPLOYEES	AL	6/30/93	BUCK	EA	BOOK	BOOK
0005B	RETIREMENT SYSTEMS OF ALABAMA JUDICIAL PLAN	AL	6/30/93	BUCK	PUC	BOOK	BOOK
0005C	RETIREMENT SYSTEMS OF ALABAMA TEACHERS' PLAN	AL	6/30/93	BUCK	EA	BOOK	BOOK
0006A	PERS OF MISSISSIPPI - GENERAL PLAN	MS	6/30/93	GRS&C	EA-O	BOOK	BOOK
0006B*	PERS OF MISSISSIPPI - HIGHWAY SAFETY PATROL RET. SYSTEM	MS	6/30/93	GRS&C	EA-O	BOOK	BOOK
0006C*	PERS OF MISSISSIPPI - MUNICIPAL RET. SYSTEMS	MS	6/30/93	GRS&C	NR	BOOK	BOOK
0006D*	PERS OF MISSISSIPPI - SUPPLEMENTAL LEGISLATIVE RET. PLAN	MS	6/30/93	GRS&C	EA-O	BOOK	BOOK
0007A	ILLINOIS STATE EMPLOYEES' RETIREMENT SYSTEM	IL	6/30/93	WYATT	PUC-C	BOOK	BOOK
0010A	TEACHERS' RETIREMENT SYSTEM OF LA - REGULAR EMPLOYEES	LA	6/30/93	HALL	PUC	4Y	BOOK
0010B	TEACHERS' RET. SYSTEM OF LA - SCHOOL FOOD SERVICE PLAN	LA	6/30/93	HALL	PUC	4Y	BOOK
0010C	TEACHERS' RET. SYSTEM OF LA - SCHOOL FOOD SERVICE PLAN	LA	6/30/93	HALL	PUC	4Y	BOOK
0013A	PA PUBLIC SCHOOL EMPLOYEES' RETIREMENT PLAN	PA	6/30/93	BUCK	EA-O	4Y	4Y
0015A	CONNECTICUT TEACHERS' RETIREMENT SYSTEM	CT	6/30/93	WYATT	EA	5Y	5Y
0019A	OHIO STATE HIGHWAY PATROL RETIREMENT PLAN	OH	6/30/93	GRS&C	EA-C	4Y	4Y
0034A	ARKANSAS LOCAL POLICE AND FIRE RETIREMENT PLAN	AR	6/30/93	GRS&C	EA	COST	COST
0043A	MN STATE RETIREMENT SYSTEM GENERAL EMPLOYEES' PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0043B	MN STATE RETIREMENT SYSTEM STATE TROOPERS' RETIREMENT PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0043C	MN STATE RETIREMENT SYSTEM CORRECTIONAL EMPLOYEES' PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0043D	MN STATE RETIREMENT SYSTEM JUDGES' RETIREMENT PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0043E	MN STATE RETIREMENT SYSTEM LEGISLATORS' RETIREMENT PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0043F	MN STATE RET. SYSTEM ELECTIVE OFFICERS' RET. PLAN	MN	6/30/93	M&R	EA-C	3Y	3Y
0048A	KENTUCKY EMPLOYEES' RETIREMENT SYSTEM - GENERAL	KY	6/30/93	MERCER	EA	5Y	5Y
0048B	KENTUCKY COUNTY EMPLOYEES' RETIREMENT SYSTEM	KY	6/30/93	MERCER	EA	5Y	5Y
0048C	KENTUCKY EMPLOYEES' RETIREMENT SYSTEM - HAZ. DUTY	KY	6/30/93	MERCER	EA	5Y	5Y
0048D	KENTUCKY STATE POLICE RETIREMENT SYSTEM	KY	6/30/93	MERCER	EA	5Y	5Y
0048E	KENTUCKY COUNTY EMPLOYEES' RETIREMENTS SYSTEM - HAZ. DUTY	KY	6/30/93	MERCER	EA	5Y	5Y
0055A	NORTH DAKOTA TEACHERS' FUND FOR RETIREMENT	ND	7/1/93	WYATT	EA-C	5Y	5Y
0057A	WYOMING WARDEN AND PATROL RETIREMENT PLAN	WY	1/1/94	SEGAL	EA	5Y	5Y
0057B	WYOMING VOLUNTEER FIREMEN'S PLAN	WY	1/1/94	SEGAL	EA	5Y	5Y
0057C	WYOMING PAID FIREMEN'S PLAN	WY	1/1/94	SEGAL	EA	5Y	5Y

TABLE E-1. PERS ACTUARIAL VALUATIONS: PLAN ACTUARY, COST METHOD AND ASSET VALUATION METHODS—Continued

SYSPLAN	PLAN NAME	STATE	DATE	ACTUARY	A-METHOD	AV-EQ	AV-FX
0057D	WYOMING PUBLIC EMPLOYEES' SYSTEM	WY	1/1/94	SEGAL	EA	5Y	5Y
0063A	TEACHERS' RETIREMENT SYSTEMS OF ILLINOIS	IL	6/30/93	BUCK	PUC	COST	COST
0064A	EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA - GENERAL	GA	6/30/93	BUCK	EA	BOOK	BOOK
0066A	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - GENERAL	TX	6/30/93	TP	EA-O	2Y	BOOK
0066B*	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - LAW ENFORCEMENT	TX	6/30/93	TP	EA-O	NA	BOOK
0066C*	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS - JUDICIAL	TX	6/30/93	TP	EA-O	2Y	BOOK
0067A	NEW JERSEY TEACHERS' PENSION AND ANNUITY FUND	NJ	3/31/93	BUCK	FIL	5Y	5Y
0068A	NEW JERSEY POLICE AND FIREMEN'S RETIREMENT SYSTEM	NJ	7/1/93	M&R	FIL	5Y	5Y
0069A	NEW JERSEY PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	NJ	3/31/93	BUCK	FIL	5Y	5Y
0071A	LOUISIANA STATE EMPLOYEES' RETIREMENT SYSTEM	LA	6/30/93	HALL	PUC	4Y	BOOK
0072A	ARKANSAS TEACHERS' RETIREMENT SYSTEM	AR	6/30/93	GRS&C	EA	COST	COST
0076A	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - GENERAL	NC	12/31/92	BUCK	EA	COST	ACOST
0076B*	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - TEACHERS	NC	12/31/92	BUCK	EA	COST	ACOST
0076C*	NC TEACHERS' AND STATE EMPLOYEES' RETIREMENT SYSTEM - LAW	NC	12/31/92	BUCK	EA	COST	ACOST
0079A	OHIO SCHOOL EMPLOYEES' RETIREMENT SYSTEM	OH	6/30/93	GRS&C	EA	5Y	5Y
0083A	OKLAHOMA TEACHERS' RETIREMENT SYSTEM	OK	6/30/93	WYATT	EA-O	MKT	ACOST
0085A	PUBLIC SCHOOL RETIREMENT SYSTEM OF MISSOURI	MO	6/30/93	HAYS	EA	COST	ACOST
0086A	NON-TEACHER SCHOOL EMPLOYEE RETIREMENT SYSTEM OF MISSOURI	MO	6/30/93	HAYS	EA	COST	ACOST
0087A	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	NH	6/30/93	BUCK	AGG	5Y	5Y
0087B*	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - TEACHERS	NH	6/30/93	BUCK	AGG	5Y	5Y
0087C*	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - POLICE	NH	6/30/93	BUCK	AGG	5Y	5Y
0087D*	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEM - FIRE	NH	6/30/93	BUCK	AGG	5Y	5Y
0096A	TEACHER RETIREMENT SYSTEM OF TEXAS	TX	8/31/93	WYATT	EA-O	5Y	BOOK
0098A	WISCONSIN RETIREMENT SYSTEM - GENERAL	WI	12/31/91	GRS&C	FIL-C	5Y	5Y
0098B	WISCONSIN RETIREMENT SYSTEM - PROTECTIVES W/ SOC. SEC.	WI	12/31/91	GRS&C	FIL-C	5Y	5Y
0098C	WISCONSIN RETIREMENT SYSTEM - PROTECTIVES W/OUT SOC. SEC.	WI	12/31/91	GRS&C	FIL-C	5Y	5Y
0098D	WISCONSIN RETIREMENT SYSTEM - PLAN FOR ELECTED/EXECUTIVE	WI	12/31/91	GRS&C	FIL-C	5Y	5Y
0098E*	WISCONSIN RETIREMENT SYSTEM - TEACHERS	WI	12/31/91	GRS&C	FIL-C	5Y	5Y
0104A	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM - GENERAL	TN	6/30/93	BPS&M	FIL-C	5Y	BOOK
0104A	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM - TEACHERS	TN	6/30/93	BPS&M	FIL-C	5Y	BOOK
0106A	KENTUCKY TEACHERS' RETIREMENT SYSTEM	KY	6/30/93	BUCK	PUC	5Y	5Y
0107A	CALIFORNIA STATE TEACHERS' RETIREMENT SYSTEM	CA	6/30/93	M&R	EA	5Y	ACOST
0112A	ARKANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	AR	6/30/93	GRS&C	EA	COST	COST
0113A	VIRGINIA RETIREMENT SYSTEM - GENERAL	VA	6/30/93	BUCK	EA	5Y	5Y
0113B*	VIRGINIA RETIREMENT SYSTEM - TEACHERS	VA	6/30/93	BUCK	EA	5Y	5Y
0113C*	VIRGINIA RETIREMENT SYSTEM - POLICE & LAW ENFORCEMENT	VA	6/30/93	BUCK	EA	5Y	5Y
0113D*	VIRGINIA RETIREMENT SYSTEM - JUDICIAL	VA	6/30/93	BUCK	EA	5Y	5Y
0121A	PENNSYLVANIA STATE EMPLOYEES' RETIREMENT SYSTEM	PA	12/31/93	H/H	EA-C	5Y	5Y

TABLE E-1. PERS ACTUARIAL VALUATIONS: PLAN ACTUARY, COST METHOD AND ASSET VALUATION METHODS—Continued

SYSPLAN	PLAN NAME	STATE	DATE	ACTUARY	A-METHOD	AV-EQ	AV-FX
0125A	PERA OF COLORADO - GENERAL	CO	12/31/93	TP	EA	4Y	4Y
0125B*	PERA OF COLORADO - STATE TROOPERS	CO	12/31/93	TP	EA	4Y	4Y
0125C*	PERA OF COLORADO - SCHOOL	CO	12/31/93	TP	EA	4Y	4Y
0125D*	PERA OF COLORADO - MUNICIPAL	CO	12/31/93	TP	EA	4Y	4Y
0125E*	PERA OF COLORADO - JUDICIAL	CO	12/31/93	TP	EA	4Y	4Y
0134A	HAWAII ERS - GENERAL	HI	6/30/93	SEGAL	FIL	BOOK	BOOK
0134B*	HAWAII ERS - TEACHERS	HI	6/30/93	SEGAL	FIL	BOOK	BOOK
0134C*	HAWAII ERS - POLICE/FIRE/CORRECTIONS	HI	6/30/93	SEGAL	FIL	BOOK	BOOK
0137A	NEW YORK STATE TEACHERS' RETIREMENT SYSTEM	NY	6/30/93	STATE	FIL	5Y	BOOK
0138A	MISSOURI STATE EMPLOYEES' RETIREMENT SYSTEM	MO	6/30/93	GRS&C	EA	3Y	3Y
0138C	MISSOURI ADMINISTRATIVE LAW JUDGES' RETIREMENT SYSTEM	MO	6/30/93	GRS&C	EA	3Y	3Y
0138D	MISSOURI REGULAR JUDGES' RETIREMENT SYSTEM	MO	6/30/93	GRS&C	EA	3Y	3Y
0139A	PENNSYLVANIA MUNICIPAL RETIREMENT SYSTEM	PA	1/1/93	SEGAL	EA-C	MKT	MKT
0144A	OREGON PERS - STATE GENERAL	OR	12/31/91	M&R	EA-O	MKT	ACOST
0144B*	OREGON PERS - STATE POLICE & FIRE	OR	12/31/91	M&R	EA-O	MKT	ACOST
0144C*	OREGON PERS - SCHOOL	OR	12/31/91	M&R	EA-O	MKT	ACOST
0144D*	OREGON PERS - LOCAL GENERAL	OR	12/31/91	M&R	EA-O	MKT	ACOST
0144E*	OREGON PERS - LOCAL POLICE & FIRE	OR	12/31/91	M&R	EA-O	MKT	ACOST
0144F*	OREGON PERS - JUDGES	OR	12/31/91	M&R	EA-O	MKT	ACOST
0145A	PERS OF OHIO - STATE	OH	12/31/92	GRS&C	EA	4Y	4Y
0145B	PERS OF OHIO - LAW ENFORCEMENT	OH	12/31/92	GRS&C	EA	4Y	4Y
0145C*	PERS OF OHIO - LOCAL GOVT.	OH	12/31/92	GRS&C	EA	4Y	4Y
0147A	PERS OF IDAHO - GENERAL MEMBERS	ID	7/1/93	M&R	EA-C	12M	ACOST
0147B	PERS OF IDAHO - POLICE/FIRE MEMBERS	ID	7/1/93	M&R	EA-C	12M	ACOST
0147C	PERS OF IDAHO - FIREFIGHTERS RETIREMENT FUND	ID	7/1/92	M&R	EA-C	12M	ACOST
0147D*	PERS OF IDAHO - TEACHER MEMBERS	ID	7/1/93	M&R	EA-C	12M	ACOST
0148A	TEACHERS' RETIREMENT SYSTEM OF GEORGIA	GA	6/30/93	BUCK	EA-C	COST	COST
0151A	IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	IA	6/30/93	M&R	AGG	120M	120M
0154A	NORTH DAKOTA PUBLIC EMPLOYEES' RETIREMENT SYSTEM - GENERAL	ND	7/1/93	SEGAL	EA-C	5Y	5Y
0154B	NORTH DAKOTA HIGHWAY PATROL RETIREMENT PLAN	ND	6/30/93	SEGAL	EA	5Y	5Y
0161A	INDIANA TEACHERS' RETIREMENT PLAN	IN	6/30/93	GRS&C	EA	COST	COST
0165A	UTAH PERS PUBLIC EMPLOYEES' PLAN - PUBLIC EMPLOYEES	UT	6/30/93	WYATT	EA-C	5Y	5Y
0165B	UTAH PERS PUBLIC EMPLOYEES' PLAN - EDUCATORS	UT	6/30/93	WYATT	EA-C	5Y	5Y
0165C	UTAH PERS PUBLIC SAFETY PLAN	UT	6/30/93	WYATT	EA-C	5Y	5Y
0165D	UTAH PERS JUDGES' PLAN	UT	6/30/93	WYATT	EA-C	5Y	5Y
0165E	UTAH PERS FIREFIGHTER'S PLAN	UT	6/30/93	WYATT	EA-C	5Y	5Y
0168A	FLORIDA RETIREMENT SYSTEM - REGULAR EMPLOYEES	FL	7/1/93	M&R	EA	5Y	5Y
0168B*	FLORIDA RETIREMENT SYSTEM - SPECIAL RISK	FL	7/1/93	M&R	EA	5Y	5Y

TABLE E-1. PERS ACTUARIAL VALUATIONS: PLAN ACTUARY, COST METHOD AND ASSET VALUATION METHODS—Continued

SYSPLAN	PLAN NAME	STATE	DATE	ACTUARY	A-METHOD	AV-EQ	AV-FX
0168B*	FLORIDA RETIREMENT SYSTEM - TEACHERS	FL	7/1/93	M&R	EA	5Y	5Y
0169A	OKLAHOMA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	OK	7/1/93	MERCER	EA	5Y	5Y
0169B*	OKLAHOMA UNIFORM RETIREMENT SYSTEM FOR JUSTICES AND JUDGES	OK	7/1/93	MERCER	EA	5Y	5Y
0170A	DELAWARE STATE EMPLOYEES' PENSION PLAN	DE	6/30/93	SEGAL	PUC-C	4Y	4Y
0174A	WASHINGTON PUBLIC EMPLOYEES' RETIREMENT SYSTEM - PLAN I	WA	12/31/93	STATE	EA-C	18M	18M
0174B	WASHINGTON PUBLIC EMPLOYEES' RETIREMENT SYSTEM - PLAN II	WA	12/31/93	STATE	AGG	18M	18M
0174C	WASHINGTON TEACHERS' RETIREMENT SYSTEM - PLAN I	WA	12/31/93	STATE	EA-C	18M	18M
0174D	WASHINGTON TEACHERS' RETIREMENT SYSTEM - PLAN II	WA	12/31/93	STATE	AGG	18M	18M
0174E	WASHINGTON LAW ENFORCEMENT AND FIRE FIGHTERS' PLAN I	WA	12/31/93	STATE	EA-C	18M	18M
0174F	WASHINGTON LAW ENFORCEMENT AND FIRE FIGHTERS' PLAN II	WA	12/31/93	STATE	AGG	18M	18M
0174G	WASHINGTON STATE PATROL RETIREMENT SYSTEM	WA	12/31/93	STATE	EA-C	18M	18M
0174H	WASHINGTON JUDICIAL RETIREMENT SYSTEM	WA	12/31/93	STATE	PAYGO	NA	NA
0175A	INDIANA PUBLIC EMPLOYEES RETIREMENT FUND	IN	7/1/93	M&K	EA	AV+C	AV+C
0175B*	INDIANA PENSION PLANS FOR MUNI. POLICE AND FIREFIGHTERS	IN	7/1/93	M&K	EA	<C/M	<C/M
0175C*	INDIANA PENSION PLANS FOR EXCISE POLICE AND CONSERVATION	IN	7/1/93	M&K	EA	COST	COST
0175D*	INDIANA JUDGES RETIREMENT SYSTEM	IN	7/1/93	M&K	EA	COST	COST
0175E*	INDIANA LEGISLATORS DEFINED BENEFIT PLAN	IN	7/1/93	M&K	UC-C	COST	COST
0175F*	INDIANA PROSECUTING ATTORNEYS RETIREMENT FUND	IN	7/1/93	M&K	EA	COST	COST
0178A	SOUTH DAKOTA RETIREMENT SYSTEM	SD	6/30/93	BUCK	EA	5Y	5Y
0181A	MICHIGAN PUBLIC SCHOOL EMPLOYEES' RETIREMENT SYSTEM	MI	6/30/93	SEGAL	EA-O	5Y	5Y
0182A	MICHIGAN STATE POLICE RETIREMENT PLAN	MI	6/30/93	SEGAL	EA-C	5Y	5Y
0183A	MICHIGAN JUDGES' RETIREMENT SYSTEM	MI	6/30/93	SEGAL	EA-O	5Y	5Y
0185A	MICHIGAN STATE EMPLOYEES' RETIREMENT SYSTEM	MI	6/30/93	SEGAL	EA-O	5Y	5Y
0186A	MICHIGAN MUNICIPAL EMPLOYEES' RETIREMENT PLAN	MI	6/30/93	GRS&C	ATT	5Y	5Y
0191A	OHIO STATE TEACHERS' RETIREMENT SYSTEM	OH	7/1/93	BUCK	EA-O	3Y	3Y
0193A	KANSAS PUBLIC EMPLOYEES' RETIREMENT PLAN	KS	6/30/93	SEGAL	PUC-C	BOOK	BOOK
0193B	KANSAS POLICE AND FIRE RETIREMENT SYSTEM	KS	6/30/93	SEGAL	AGG	BOOK	BOOK
0193C	KANSAS RETIREMENT SYSTEM FOR JUDGES	KS	6/30/93	SEGAL	FIL	BOOK	BOOK
0195A	MONTANA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0196A	MONTANA GAME WARDENS' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0197A	MONTANA JUDGES' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0198A	MONTANA SHERIFFS' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0199A	MONTANA MUNICIPAL POLICE OFFICERS' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0200A	MONTANA HIGHWAY PATROL OFFICERS' RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0201A	MONTANA FIREFIGHTER'S UNIFIED RETIREMENT SYSTEM	MT	6/30/93	HM&A	EA	4Y	4Y
0202A	NEW YORK STATE & LOCAL EMPLOYEES' RET. SYSTEM - GENERAL	NY	6/30/93	INTERNAL	PUC	5Y	ACOST
0202B	NEW YORK STATE & LOCAL POLICE AND FIRE RETIREMENT SYSTEM	NY	6/30/93	INTERNAL	PUC	5Y	ACOST
0204A	ARIZONA STATE RETIREMENT SYSTEM	AZ	6/30/93	WYATT	PUC-C	5Y	5Y

TABLE E-1. PERS ACTUARIAL VALUATIONS: PLAN ACTUARY, COST METHOD AND ASSET VALUATION METHODS—Continued

SYSPLAN	PLAN NAME	STATE	DATE	ACTUARY	A-METHOD	AV-EQ	AV-FX
0235A	NEBRASKA PERS SCHOOL PLAN	NE	7/1/93	TP	FIL	MKT	BOOK
0235B	NEBRASKA PERS STATE PATROL RETIREMENT PLAN	NE	7/1/93	TP	PUC	MKT	BOOK
0235C	NEBRASKA PERS JUDGES' RETIREMENT PLAN	NE	7/1/93	TP	FIL	MKT	BOOK
0278A	CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	CA	6/30/93	INTERNAL	EA	5Y	5Y
0302A	CONNECTICUT STATE EMPLOYEES' RETIREMENT PLAN	CT	6/30/93	M&R	PUC-C	5Y	5Y
0303A	ALASKA PERS - GENERAL	AK	6/30/93	MERCER	PUC-O	5Y	5Y
0303B*	ALASKA PERS - POLICE & FIRE	AK	6/30/93	MERCER	PUC-O	5Y	5Y
0304A	ALASKA TEACHERS' RETIREMENT SYSTEM	AK	6/30/93	MERCER	PUC-O	5Y	5Y
0349A	MAINE STATE RETIREMENT SYSTEM - GENERAL	ME	6/30/93	M&R	EA-C	3Y	3Y
0349B*	MAINE STATE RETIREMENT SYSTEM - TEACHERS	ME	6/30/93	M&R	EA-C	3Y	3Y
0361A	DISTRICT OF COLUMBIA TEACHERS RETIREMENT PLAN	DC	10/1/93	M&R	PAYGO	MKT	MKT
0361B	DISTRICT OF COLUMBIA POLICE OFFICERS AND FIREFIGHTERS PLAN	DC	6/30/93	M&R	PAYGO	MKT	MKT
0361C	DISTRICT OF COLUMBIA JUDGES' RETIREMENT PLAN	DC	6/30/93	M&R	PAYGO	MKT	MKT
0373A	PUB. EMP. RET. BOARD OF NEW MEXICO - STATE GENERAL	NM	6/30/93	GRS&C	EA	4Y	4Y
0373B*	PUB. EMP. RET. BOARD OF NEW MEXICO - STATE POLICE	NM	6/30/93	GRS&C	EA	4Y	4Y
0373C*	PUB. EMP. RET. BOARD OF NEW MEXICO - MUNI. GENERAL	NM	6/30/93	GRS&C	EA	4Y	4Y
0373D*	PUB. EMP. RET. BOARD OF NEW MEXICO - MUNI. POLICE	NM	6/30/93	GRS&C	EA	4Y	4Y
0373E*	PUB. EMP. RET. BOARD OF NEW MEXICO - MUNI. FIRE	NM	6/30/93	GRS&C	EA	4Y	4Y
0374A	MARYLAND STATE RETIREMENT AGENCY - TEACHERS	MD	6/30/93	M&R	EA-C	3Y	3Y
0374B*	MARYLAND STATE RETIREMENT AGENCY - REGULAR	MD	6/30/93	M&R	EA-C	3Y	3Y
0374C*	MARYLAND STATE RETIREMENT AGENCY - LEGISLATIVE	MD	6/30/93	M&R	EA-C	3Y	3Y
0374D*	MARYLAND STATE RETIREMENT AGENCY - STATE POLICE	MD	6/30/93	M&R	EA-C	3Y	3Y
0374E*	MARYLAND STATE RETIREMENT AGENCY - JUDGES	MD	6/30/93	M&R	EA-C	3Y	3Y
0375A	MASSACHUSETTS PERA - GENERAL & TEACHERS	MA	1/1/93	INTERNAL	EA	MKT	MKT
0375B*	MASSACHUSETTS PERA - HAZARDOUS DUTY	MA	1/1/93	INTERNAL	EA	MKT	MKT
0375C*	MASSACHUSETTS PERA - STATE POLICE	MA	1/1/93	INTERNAL	EA	MKT	MKT
0375D*	MASSACHUSETTS PERA - MUNI. POLICE & FIRE	MA	1/1/93	INTERNAL	EA	MKT	MKT
0376A	WEST VIRGINIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	WV	7/1/93	STATE	EA	MKT	MKT
0376A	WEST VIRGINIA TEACHERS' RETIREMENT SYSTEM	WV	7/1/93	STATE	EA	MKT	MKT
0376A	WEST VIRGINIA JUDGES' RETIREMENT SYSTEM	WV	7/1/93	STATE	EA-C	MKT	MKT
0376A	WEST VIRGINIA PUBLIC SAFETY RETIREMENT FUND	WV	7/1/93	STATE	EA	MKT	MKT

TABLE E-2. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO INVESTMENT RETURNS AND SALARY INCREASES

SYSPLAN	INV	INF	TSI-A30	TSI-A40	TSI-A50	TSI-A60	TSI NOTE
0001A	8.00	5.00	8.00	6.53	6.09	5.76	NA
0001B	8.00	5.00	8.00	6.53	6.09	5.76	NA
0002A	8.00	4.00	BASED ON SERVICE: 9.5% FOR 1 YEAR; 5.75% FOR 5 YEARS; 4.75 FOR 10 YEARS				
0003A	8.00	5.00	9.50	7.00	6.30	5.90	NA
0003A1	8.00	5.00	9.50	7.00	6.30	5.90	NA
0003B	8.00	5.00	10.01	7.50	6.80	6.40	NA
0003C*	8.00	5.00	6.50	6.50	6.50	6.50	NA
0004A	8.00	NR	DIFFERS BY SIZE OF CITY				NA
0005A	8.00	5.00	7.61	6.98	6.32	5.49	NA
0005B	8.00	5.00	5.00	5.00	5.00	5.00	NA
0005C	8.00	5.00	7.75	6.50	6.00	5.00	NA
0006A	8.00	5.00	9.70	7.90	6.30	5.50	SALARY SCALE FOR MALES
0006B*	8.00	5.00	7.00	6.50	6.50	NA	NA
0006C*	8.00	5.00	6.00	6.00	6.00	6.00	NA
0006D*	8.00	5.00	9.70	7.90	6.30	5.50	SALARY SCALE FOR MALES
0007A	8.00	4.50	8.20	7.20	6.20	5.20	NA
0010A	8.25	NR	BASED ON YEARS OF SERVICE: 8.95% AFTER 1 YEAR; 5.75% AFTER 15 YEARS				
0010B	8.25	NR	BASED ON YEARS OF SERVICE: 8.95% AFTER 1 YEAR; 5.75% AFTER 15 YEARS				
0010C	8.25	NR	BASED ON YEARS OF SERVICE: 8.95% AFTER 1 YEAR; 5.75% AFTER 15 YEARS				
0013A	8.50	4.00	7.25	7.25	7.25	7.25	NA
0015A	8.50	NR	BASED ON YEARS OF SERVICE: 8.0% FOR UP TO 16 YEARS OF SERVICE; 5.5% THEREAFTER				
0019A	7.75	5.50	8.10	6.60	6.50	5.50	NA
0034A	7.50	5.00	7.80	7.20	6.20	5.20	NA
0043A	8.50	NR	6.50	6.50	6.50	6.50	NA
0043B	8.50	NR	6.50	6.50	6.50	6.50	NA
0043C	8.50	NR	6.50	6.50	6.50	6.50	NA
0043D	8.50	NR	6.50	6.50	6.50	6.50	NA
0043E	8.50	NR	6.50	6.50	6.50	6.50	NA
0043F	8.50	NR	6.50	6.50	6.50	6.50	NA
0048A	8.00	NR	6.50	6.50	6.50	6.50	NA
0048B	8.00	NR	6.50	6.50	6.50	6.50	NA
0048C	8.00	NR	6.50	6.50	6.50	6.50	NA
0048D	8.00	NR	6.50	6.50	6.50	6.50	NA
0048E	8.00	NR	6.50	6.50	6.50	6.50	NA
0055A	8.00	4.50	7.00	6.00	5.25	4.75	NA
0057A	8.00	4.50	6.00	6.00	6.00	6.00	NA
0057B	8.00	4.50	6.00	6.00	6.00	6.00	NA
0057C	8.00	4.50	6.00	6.00	6.00	6.00	NA

TABLE E-2. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO INVESTMENT RETURNS AND SALARY INCREASES—Continued

SYSPLAN	INV	INF	TSI-A30	TSI-A40	TSI-A50	TSI-A60	TSI NOTE
0057D	8.00	4.50	6.00	6.00	6.00	6.00	NA
0063A	8.00	4.00	8.60	7.50	6.90	6.70	SALARY SCALE FOR MALES
0064A	7.50	5.20	6.50	5.70	5.70	5.70	NA
0066A	8.50	4.50	6.95	6.10	5.35	4.90	ASSUMES 0 YEARS OF SERVICE
0066B*	8.25	4.50	6.95	6.10	5.35	4.90	ASSUMES 0 YEARS OF SERVICE
0066C*	8.50	4.50	7.00	7.00	7.00	7.00	ASSUMES 0 YEARS OF SERVICE
0067A	8.75	NR	7.00	6.50	6.00	5.50	NA
0068A	8.75	6.00	SALARY SCALE BASED ON YEARS OF SERVICE				
0069A	8.75	NR	7.00	6.50	6.00	5.50	NA
0071A	8.25	NR	NR	NR	NR	NR	NOT REPORTED
0072A	8.00	5.50	8.20	7.60	6.60	5.70	NA
0076A	7.50	6.50	12.15	7.53	6.46	5.95	NA
0076B*	7.50	6.50	12.15	7.53	6.46	5.95	NA
0076C*	7.50	6.50	8.04	6.75	6.46	6.20	NA
0079A	7.75	4.75	7.05	6.55	5.95	4.75	NA
0083A	8.00	NR	BASED ON YEARS OF SERVICE				
0085A	8.00	5.00	9.50	8.00	7.00	6.00	NA
0086A	8.00	5.00	8.50	7.50	6.50	6.00	NA
0087A	9.00	4.00	7.36	5.62	4.88	4.46	NA
0087B*	9.00	4.00	6.60	6.10	5.70	5.30	SALARY SCALE FOR MALES
0087C*	9.00	4.00	6.79	5.50	5.21	4.95	NA
0087D*	9.00	4.00	6.79	5.50	5.21	4.95	NA
0096A	8.00	NR	BASED ON YEARS OF SERVICE				
0098A	8.00	5.60	8.20	6.80	6.10	5.90	A 5% INTEREST RATE IS USED FOR RETIRED LIVES
0098B	8.00	5.60	8.90	6.40	6.20	5.60	A 5% INTEREST RATE IS USED FOR RETIRED LIVES
0098C	8.00	5.60	8.90	6.40	6.20	5.60	A 5% INTEREST RATE IS USED FOR RETIRED LIVES
0098D	8.00	5.60	9.00	7.50	6.60	6.10	A 5% INTEREST RATE IS USED FOR RETIRED LIVES
0098E*	8.00	5.60	8.70	7.70	6.60	5.70	A 5% INTEREST RATE IS USED FOR RETIRED LIVES
0104A	8.00	NR	7.00	7.00	7.00	7.00	NA
0104A	8.00	NR	7.00	7.00	7.00	7.00	NA
0106A	8.00	NR	7.70	6.50	6.00	5.70	NA
0107A	8.50	6.50	SALARY INCREASE BASED ON ENTRY AGE, YEARS OF SERVICE, AND GENDER				
0112A	7.75	4.75	7.43	6.88	5.89	4.91	NA
0113A	8.00	NR	7.10	6.80	5.90	5.70	NA
0113B*	8.00	NR	9.30	7.50	6.30	5.30	NA
0113C*	8.00	NR	7.10	6.80	5.90	5.70	NA
0113D*	8.00	NR	6.00	6.00	6.00	6.00	NA
0121A	6.00	4.00	6.50	6.50	6.50	6.50	INTEREST RATE GRADED FROM 9.9% TO 6.0%

**TABLE E-2. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO INVESTMENT RETURNS
AND SALARY INCREASES—Continued**

SYSPLAN	INV	INF	TSI-A30	TSI-A40	TSI-A50	TSI-A60	TSI NOTE
0125A	8.50	5.50	8.20	6.90	6.30	5.90	NA
0125B*	8.50	5.50	8.20	6.90	6.30	5.90	NA
0125C*	8.50	5.50	7.20	6.64	6.10	5.99	NA
0125D*	8.50	5.50	8.90	6.90	6.10	5.80	NA
0125E*	8.50	5.50	7.01	6.20	5.50	5.50	NA
0134A	8.00	5.00	6.50	6.50	6.50	6.50	NA
0134B*	8.00	5.00	6.50	6.50	6.50	6.50	NA
0134C*	8.00	5.00	6.50	6.50	6.50	6.50	NA
0137A	8.00	NR	11.63	9.22	7.77	1.13	SALARY SCALE FOR MALES
0138A	8.50	5.00	7.20	6.40	5.70	5.00	NA
0138C	8.50	5.00	7.20	6.40	5.70	5.00	NA
0138D	8.50	5.00	7.20	6.40	5.70	5.00	NA
0139A	6.50	5.50	5.50	5.50	5.50	5.50	NA
0144A	8.00	4.50	7.10	6.70	6.00	5.60	AFTER 5 YEARS OF SERVICE
0144B*	8.00	4.50	6.60	5.50	5.30	5.30	AFTER 5 YEARS OF SERVICE
0144C*	8.00	4.50	8.30	6.70	5.50	5.50	AFTER 5 YEARS OF SERVICE
0144D*	8.00	4.50	7.30	6.00	5.40	5.00	AFTER 5 YEARS OF SERVICE
0144E*	8.00	4.50	6.60	5.90	5.60	5.50	AFTER 5 YEARS OF SERVICE
0144F*	8.00	4.50	6.00	6.00	6.00	6.00	NA
0145A	7.75	5.25	8.45	7.45	6.65	5.95	NA
0145B	7.75	5.25	8.45	7.15	6.35	5.95	NA
0145C*	7.75	5.25	8.45	7.35	6.55	5.95	NA
0147A	8.00	5.75	10.00	8.70	7.00	6.60	SALARY SCALE FOR MALES
0147B	8.00	5.75	8.80	8.00	6.30	5.80	NA
0147C	8.00	5.75	8.80	8.00	6.30	5.80	NA
0147D*	8.00	5.75	9.90	8.10	6.70	6.20	NA
0148A	7.50	4.75	7.50	6.25	5.75	4.75	NA
0151A	6.50	NR	NR	NR	NR	NR	METHOD NOT CONSISTENT WITH TABLE
0154A	8.00	5.00	6.50	5.70	5.50	5.50	NA
0154B	8.00	5.50	6.50	5.70	5.50	5.50	NA
0161A	7.50	5.50	9.10	8.20	7.60	6.90	NA
0165A	8.00	4.25	SALARY SCALE IS BASED ON YEARS OF SERVICE				
0165B	8.00	4.25	SALARY SCALE IS BASED ON YEARS OF SERVICE				
0165C	8.00	4.25	SALARY SCALE IS BASED ON YEARS OF SERVICE				
0165D	8.00	4.25	SALARY SCALE IS BASED ON YEARS OF SERVICE				
0165E	8.00	4.25	SALARY SCALE IS BASED ON YEARS OF SERVICE				
0168A	8.00	5.50	7.50	7.50	7.50	7.50	NA
0168B*	8.00	5.50	7.50	7.50	7.50	7.50	NA

TABLE E-2. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO INVESTMENT RETURNS AND SALARY INCREASES—*Continued*

SYSPLAN	INV	INF	TSI-A30	TSI-A40	TSI-A50	TSI-A60	TSI NOTE
0168B*	8.00	5.50	7.50	7.50	7.50	7.50	NA
0169A	7.50	4.70	6.30	5.60	4.90	4.80	NA
0169B*	7.50	4.50	5.50	5.50	5.50	5.50	NA
0170A	8.50	5.00	8.67	8.09	7.04	6.00	NA
0174A	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 5.7%, 10 YEARS = 0.9%				
0174B	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 5.7%, 10 YEARS = 0.9%				
0174C	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 3.7%, 10 YEARS = 3.7%				
0174D	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 3.7%, 10 YEARS = 3.7%				
0174E	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 8.1%, 10 YEARS = 0%				
0174F	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 8.1%, 10 YEARS = 0%				
0174G	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 5.5%, 10 YEARS = 0%				
0174H	7.50	5.50	BASED ON YEARS OF SERVICE: 1 YEAR = 5.5%, 10 YEARS = 5.5%				
0175A	7.50	NR	6.50	6.50	6.50	6.50	NA
0175B*	6.00	NR	5.00	5.00	5.00	5.00	NA
0175C*	7.50	NR	6.50	6.50	6.50	6.50	NA
0175D*	6.00	NR	4.00	4.00	4.00	4.00	NA
0175E*	7.00	NR	3.00	3.00	3.00	3.00	NA
0175F*	7.00	NR	5.00	5.00	5.00	5.00	NA
0178A	8.00	4.50	8.10	6.90	5.80	5.50	NA
0181A	8.00	5.00	8.50	6.70	5.90	5.10	NA
0182A	8.50	6.50	6.50	6.50	6.50	6.50	NA
0183A	8.00	5.00	5.50	5.50	5.50	5.50	NA
0185A	8.00	5.00	7.10	6.30	6.00	5.50	INTEREST RATE RANGES FROM 9.6% IN 1993 TO 8.0% IN 1997
0186A	8.00	5.50	7.50	6.60	5.80	5.50	NA
0191A	7.75	5.00	7.50	5.25	4.05	3.50	NA
0193A	8.00	5.00	6.50	6.00	5.40	5.20	NA
0193B	8.00	5.00	6.50	6.00	5.40	5.20	NA
0193C	8.00	NR	5.50	5.50	5.50	5.50	NA
0195A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0196A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0197A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0198A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0199A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0200A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0201A	8.00	6.50	6.50	6.50	6.50	6.50	NA
0202A	8.75	5.00	9.31	7.55	6.89	6.77	NA
0202B	8.75	5.00	11.58	6.99	6.67	6.59	NA
0204A	8.00	5.00	BASED ON YEARS OF SERVICE: 1 YEAR = 8.5%, 10 YEARS = 6.0%				

**TABLE E-2. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO INVESTMENT RETURNS
AND SALARY INCREASES—Continued**

SYSPLAN	INV	INF	TSI-A30	TSI-A40	TSI-A50	TSI-A60	TSI NOTE
0235A	7.50	NR	NR	NR	NR	NR	10.7% AT AGE 20, GRADING TO 5.0% AT AGE 62
0235B	7.50	NR	NR	NR	NR	NR	9.0% AT AGE 20, GRADING TO 5.0% AT AGE 55
0235C	7.50	NR	5.50	5.50	5.50	5.50	NA
0278A	8.75	4.50	NR	NR	NR	NR	SALARY SCALE VARIES WITH COVERED GROUPS
0302A	8.50	NR	VARIES BY YEARS OF SERVICE: 0 YEARS = 14.0%, 10 YEARS = 5.45%				
0303A	8.75	5.00	BASED ON YEARS OF SERVICE: < 6 YEARS = 6.5%, 6+ YEARS = 5.5%				
0303B*	8.75	5.00	BASED ON YEARS OF SERVICE: < 6 YEARS = 6.5%, 6+ YEARS = 5.5%				
0304A	9.00	6.00	BASED ON YEARS OF SERVICE: < 6 YEARS = 6.5%, 6+ YEARS = 5.5%				
0349A	8.00	6.00	7.70	6.70	6.00	6.00	NA
0349B*	8.00	6.00	7.70	6.70	6.00	6.00	NA
0361A	7.00	5.00	8.20	7.00	5.50	5.00	NA
0361B	7.00	5.00	7.00	6.80	6.20	5.00	NA
0361C	7.00	5.00	5.00	5.00	5.00	5.00	NA
0373A	8.00	5.00	8.20	7.60	6.60	5.70	NA
0373B*	8.00	5.00	8.10	5.70	5.70	5.50	NA
0373C*	8.00	5.00	8.20	7.60	6.60	5.70	NA
0373D*	8.00	5.00	8.10	5.70	5.70	5.50	NA
0373E*	8.00	5.00	8.10	5.70	5.70	5.50	NA
0374A	7.50	5.00	10.86	7.29	6.23	5.98	NA
0374B*	7.50	5.00	9.17	7.90	7.01	6.40	NA
0374C*	7.50	5.00	9.17	7.90	7.01	6.40	NA
0374D*	7.50	5.00	8.00	8.00	8.00	NA	NA
0374E*	7.50	6.00	8.00	8.00	8.00	NA	NA
0375A	8.00	6.00	NR	NR	NR	NR	NA
0375B*	8.00	6.00	NR	NR	NR	NR	NA
0375C*	8.00	6.00	NR	NR	NR	NR	NA
0375D*	8.00	6.00	NR	NR	NR	NR	NA
0376A	7.50	3.50	5.09	5.00	4.90	4.70	STATE EMPLOYEES
0376A	7.50	NR	NR	NR	NR	NR	NR
0376A	6.50	NR	4.25	4.25	4.25	4.25	NA
0376A	7.50	NR	4.00	4.00	4.00	4.00	NA
COUNT	183	139	145	145	145	142	NA
HIGH	9.00	6.50	12.15	9.22	8.00	7.50	NA
LOW	6.00	3.50	3.00	3.00	3.00	1.13	NA
AVG.	7.95	5.16	7.39	6.57	6.12	5.75	NA
ST. DEV.	0.51	0.66	1.52	0.92	0.76	0.85	NA

TABLE E-3. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO ACTIVE MEMBER MORTALITY

SYSPLAN	AM-M40	AM-M50	AM-M60	AM-M70	AM-F40	AM-F5	AM-F60	AM-F70	AM-NOTE
0001A	0.12	0.39	0.92	2.75	0.07	0.16	0.42	1.24	1983 GAM (W/ MARGIN)
0001B	0.12	0.39	0.92	2.75	0.07	0.16	0.42	1.24	1983 GAM (W/ MARGIN)
0002A	0.08	0.15	0.31	NR	0.03	0.10	0.24	NR	NA
0003A	0.18	0.46	1.08	NR	0.18	0.46	1.08	NR	DOES NOT INCLUDE TEACHERS
0003A1	0.18	0.35	0.70	NR	0.08	0.20	0.45	NR	NA
0003B	0.27	0.57	1.42	NR	0.27	0.57	1.42	NR	NA
0003C*	0.18	0.46	1.44	NR	0.11	0.25	0.53	NR	NA
0004A	0.12	0.31	0.64	NR	0.07	0.15	0.35	NR	NA
0005A	0.19	0.50	1.34	NR	0.09	0.19	0.51	NR	SPECIAL RATES USED FOR STATE POLICE (NOT-REPORTED)
0005B	0.25	0.59	1.51	NR	0.25	0.59	1.51	NR	NDBM&F
0005C	0.14	0.31	0.82	NR	0.08	0.18	0.36	NR	NA
0006A	0.08	0.24	0.60	NR	0.04	0.10	0.25	NR	NA
0006B*	0.22	0.48	NR	NR	0.22	0.48	NR	NR	NDBM&F
0006C*	0.20	0.49	1.07	NR	0.20	0.49	1.07	NR	NON-DUTY; NDBM&F
0006D*	0.08	0.24	0.60	NR	0.04	0.10	0.25	NR	NA
0007A	NR	NR	NR	NR	NR	NR	NR	NR	1986 PROJECTED EXPERIENCE TABLE
0010A	0.14	0.43	1.02	3.06	0.08	0.20	0.52	1.57	1983 GAM (-0M, +1F)
0010B	0.14	0.43	1.02	3.06	0.08	0.20	0.52	1.57	1983 GAM (-0M, +1F)
0010C	0.14	0.43	1.02	3.06	0.08	0.20	0.52	1.57	1983 GAM (-0M, +1F)
0013A	0.12	0.32	0.94	NR	0.07	0.15	0.34	NR	NA
0015A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLE (-5F)
0019A	0.21	0.61	NR	NR	0.14	0.36	NR	NR	NA
0034A	SHOWN AS FUTURE LIFE EXPECTANCY								NA
0043A	0.16	0.53	1.31	3.61	0.09	0.20	0.65	1.59	1971 GAM (-8F)
0043B	0.16	0.53	1.31	3.61	0.09	0.20	0.65	1.59	1971 GAM (-8F)
0043C	0.16	0.53	1.31	3.61	0.09	0.20	0.65	1.59	1971 GAM (-8F)
0043D	0.16	0.53	1.31	3.61	0.09	0.20	0.65	1.59	1971 GAM (-8F)
0043E	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-8F)
0043F	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-8F)
0048A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM
0048B	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM
0048C	0.17	0.45	0.97	NR	0.12	0.21	0.47	NR	1983 GAM + DUTY DEATH RATE OF .05% PER YEAR
0048D	0.17	0.45	0.97	NR	0.12	0.21	0.47	NR	1983 GAM + DUTY DEATH RATE OF .05% PER YEAR
0048E	0.17	0.45	0.97	NR	0.12	0.21	0.47	NR	1983 GAM + DUTY DEATH RATE OF .05% PER YEAR
0055A	0.10	0.27	0.74	1.95	0.06	0.14	0.34	0.96	1983 GAM (W/OUT MARGIN) (-4M, -3F)
0057A	0.14	0.43	1.02	NR	0.07	0.18	0.47	NR	NA
0057B	0.14	0.43	1.02	NR	0.07	0.18	0.47	NR	NA
0057C	0.14	0.43	1.02	NR	0.07	0.18	0.47	NR	NA

TABLE E-3. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO ACTIVE MEMBER MORTALITY—Continued

SYSPLAN	AM-M40	AM-M50	AM-M60	AM-M70	AM-F40	AM-F5	AM-F60	AM-F70	AM-NOTE
0057D	0.14	0.43	1.02	NR	0.07	0.18	0.47	NR	NA
0063A	0.13	0.31	0.83	2.05	0.13	0.31	0.83	2.05	NA
0064A	0.20	0.66	1.57	NR	0.14	0.31	0.75	NR	NA
0066A	0.16	0.39	0.69	NR	0.09	0.16	0.30	NR	BASED ON EXPERIENCE
0066B*	0.16	0.39	0.69	NR	0.09	0.16	0.30	NR	BASED ON EXPERIENCE
0066C*	0.16	0.39	0.69	NR	0.09	0.16	0.30	NR	BASED ON EXPERIENCE
0067A	0.12	0.28	0.48	0.95	0.06	0.15	0.33	0.77	NA
0068A	0.13	0.45	0.82	NR	0.13	0.45	0.82	NR	NDBM&F
0069A	0.13	0.32	0.77	NR	0.13	0.32	0.77	NR	RATES ARE FOR STATE EMPLOYEES; NDBM&F
0071A	0.14	0.43	1.02	3.06	0.20	0.20	0.52	1.57	1983 GAM (+1F)
0072A	0.15	0.49	1.21	NR	0.08	0.18	0.46	NR	NA
0076A	0.18	0.40	0.85	NR	0.08	0.16	0.26	NR	NA
0076B*	0.12	0.32	0.76	NR	0.07	0.14	0.24	NR	NA
0076C*	0.14	0.29	0.71	NR	0.14	0.29	0.71	NR	ORDINARY; NDBM&F
0079A	0.08	0.24	0.60	NR	0.04	0.08	0.21	NR	1971 GAM PROJECTED TO 1984 (-1M, -1F)
0083A	0.11	0.23	0.43	NR	0.08	0.16	0.32	NR	1990 EXPERIENCE STUDY
0085A	0.10	0.31	0.77	2.22	0.06	0.14	0.34	0.97	NA
0086A	0.12	0.40	0.92	2.75	0.06	0.15	0.38	1.09	NA
0087A	0.05	0.10	NR	NR	0.05	0.10	NR	NR	NDBM&F
0087B*	0.05	0.07	NR	NR	0.05	0.07	NR	NR	NDBM&F
0087C*	0.10	0.16	0.30	NR	0.10	0.16	0.30	NR	ORDINARY; NDBM&F
0087D*	0.07	0.11	0.21	NR	0.07	0.11	0.21	NR	NDBM&F
0096A	0.15	0.34	0.68	1.55	0.06	0.15	0.30	0.58	1990 EXPERIENCE STUDY
0098A	0.12	0.38	0.95	2.73	0.06	0.14	0.36	1.10	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098B	0.12	0.38	0.95	2.73	0.06	0.14	0.36	1.10	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098C	0.12	0.38	0.95	2.73	0.06	0.14	0.36	1.10	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098D	0.12	0.38	0.95	2.73	0.06	0.14	0.36	1.10	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098E*	0.12	0.38	0.95	2.73	0.06	0.14	0.36	1.10	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0104A	0.10	0.31	0.73	NR	0.06	0.14	0.36	NR	NA
0104A	0.10	0.31	0.73	NR	0.06	0.14	0.36	NR	NA
0106A	0.11	0.25	0.89	NR	0.09	0.13	0.24	NR	NA
0107A	0.09	0.22	0.61	1.56	0.05	0.12	0.31	0.87	1983 GAM (-5M, -3F)
0112A	0.15	0.49	1.21	NR	0.08	0.18	0.46	NR	NR
0113A	0.16	0.53	0.90	NR	0.09	0.22	0.44	NR	NR
0113B*	0.16	0.53	0.90	NR	0.09	0.22	0.44	NR	NR
0113C*	0.20	0.65	NR	NR	0.20	0.65	NR	NR	NO DISTINCTION BETWEEN MEN AND WOMEN
0113D*	0.16	0.53	1.31	NR	0.09	0.22	0.55	NR	NR
0121A	0.13	0.36	0.90	NR	0.11	0.22	0.42	NR	NA

TABLE E-3. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO ACTIVE MEMBER MORTALITY—Continued

SYSPLAN	AM-M40	AM-M50	AM-M60	AM-M70	AM-F40	AM-F5	AM-F60	AM-F70	AM-NOTE
0125A	0.16	0.53	0.91	NR	0.09	0.22	0.44	NR	EXPERIENCE
0125B*	0.16	0.53	0.91	NR	0.09	0.22	0.44	NR	EXPERIENCE
0125C*	0.16	0.53	0.91	NR	0.09	0.22	0.44	NR	EXPERIENCE
0125D*	0.16	0.53	0.91	NR	0.09	0.22	0.44	NR	EXPERIENCE
0125E*	0.16	0.53	0.91	NR	0.09	0.22	0.44	NR	EXPERIENCE
0134A	SHOWN AS EXPECTED YEARS OF LIFE REMAINING								1983 GAM (WITHOUT MARGIN)
0134B*	SHOWN AS EXPECTED YEARS OF LIFE REMAINING								1983 GAM (WITH MARGIN)
0134C*	SHOWN AS EXPECTED YEARS OF LIFE REMAINING								1983 GAM (WITHOUT MARGIN)
0137A	0.08	0.29	0.55	0.77	0.07	0.15	0.25	0.70	NR
0138A	0.14	0.44	1.09	NR	0.09	0.24	0.71	NR	NR
0138C	0.14	0.44	1.09	NR	0.09	0.24	0.71	NR	NR
0138D	0.14	0.44	1.09	NR	0.09	0.24	0.71	NR	NR
0139A	SHOWN AS EXPECTED NUMBER OF YEARS OF LIFE REMAINING								1971 GAM (-0M, -6F)
0144A	0.12	0.31	0.78	NR	0.06	0.14	0.43	NR	MALES: 50% SERVICE RETIREE RATES; FEMALES: 60%
0144B*	0.09	0.25	0.62	NR	0.09	0.25	0.62	NR	40% SERVICE RETIREE RATES
0144C*	0.08	0.26	0.56	NR	0.04	0.08	0.25	NR	40% SERVICE RETIREE RATES
0144D*	0.12	0.31	0.78	NR	0.06	0.14	0.43	NR	MALES: 50% SERVICE RETIREE RATES; FEMALES: 60%
0144E*	0.09	0.25	0.62	NR	0.09	0.25	0.62	NR	40% SERVICE RETIREE RATES
0144F*	0.26	0.69	1.70	NR	0.26	0.69	1.70	NR	100% SERVICE RETIREE RATES
0145A	0.25	0.71	1.80	NR	0.15	0.43	1.16	NR	1971 GAM PROJECTED TO 1984
0145B	0.25	0.71	1.80	NR	0.15	0.43	1.16	NR	1971 GAM PROJECTED TO 1984
0145C*	0.25	0.71	1.80	NR	0.15	0.43	1.16	NR	1971 GAM PROJECTED TO 1984
0147A	0.15	0.48	1.15	2.42	0.09	0.20	0.60	1.28	1971 IAM (-1M, -1F)
0147B	0.20	0.65	1.42	3.14	0.11	0.26	0.78	1.77	1971 IAM (+2M, +2F)
0147C	0.20	0.65	1.42	3.14	0.11	0.26	0.78	1.77	1971 IAM (+2M, +2F)
0147D*	0.14	0.42	1.07	2.22	0.08	0.18	0.54	1.16	1971 IAM (-2M, -2F)
0148A	0.12	0.32	0.94	NR	0.07	0.15	0.34	NR	NA
0151A	0.11	0.29	0.71	1.99	0.11	0.29	0.71	1.99	1977 IPERS UNISEX MORTALITY TABLE
0154A	NR	NR	0.92	2.75	NR	NR	0.92	2.75	1983 GAM (W/MARGIN); NDBM&F
0154B	NR	NR	0.92	2.75	NR	NR	0.92	2.75	1983 GAM (W/MARGIN); NDBM&F
0161A	0.10	0.31	0.77	2.22	0.07	0.17	0.52	1.24	1983 GAM (-2M, -7F)
0165A	0.15	0.28	0.76	1.66	0.08	0.19	0.40	0.73	EXPERIENCE
0165B	0.06	0.20	0.57	0.80	0.06	0.18	0.34	0.65	EXPERIENCE
0165C	0.11	0.32	0.68	1.03	0.11	0.32	0.68	1.03	EXPERIENCE
0165D	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165E	0.11	0.32	0.68	1.03	0.11	0.32	0.68	1.03	EXPERIENCE; NDBM&F
0168A	0.13	0.65	1.00	2.63	0.08	0.17	0.39	1.16	1971 GAM (-3M, -3F)
0168B*	0.13	0.65	1.00	2.63	0.08	0.17	0.39	1.16	1971 GAM (-3M, -3F)

TABLE E-3. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO ACTIVE MEMBER MORTALITY—Continued

SYSPLAN	AM-M40	AM-M50	AM-M60	AM-M70	AM-F40	AM-F5	AM-F60	AM-F70	AM-NOTE
0168B*	0.13	0.65	1.00	2.63	0.08	0.17	0.39	1.16	1971 GAM (-3M, -3F)
0169A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0169B*	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0170A	0.12	0.39	0.92	NR	NR	NR	NR	NR	NR
0174A	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0174B	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0174C	0.10	0.28	0.71	1.98	0.06	0.15	0.38	1.09	1983 GAM (-3M, -1F)
0174D	0.10	0.28	0.71	1.98	0.06	0.15	0.38	1.09	1983 GAM (-3M, -1F)
0174E	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0174F	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0174G	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0174H	0.14	0.43	1.01	3.08	0.07	0.18	0.47	1.42	1983 GAM (+1M, +1F)
0175A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLES (+1M, -4F)
0175B*	NR	NR	NR	NR	NR	NR	NR	NR	1969-71 U.S. LIFE TABLES
0175C*	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLES (+1M, -4F)
0175D*	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0175E*	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0175F*	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0178A	0.11	0.28	0.80	NR	0.07	0.12	0.44	NR	1989 BUCK MORTALITY TABLE
0181A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM (-0M, -5F)
0182A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM (-0M, -7F)
0183A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 2010 (-0M, -6F)
0185A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM (-0M, -5F)
0186A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM (-0M, -5F)
0191A	0.08	0.26	0.43	1.39	0.05	0.12	0.30	0.52	NA
0193A	INCLUDED IN WITHDRAWAL RATES								NA
0193B	0.11	0.31	NR	NR	0.11	0.31	NR	NR	MID-RANGE; NDBM&F
0193C	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0195A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0196A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0197A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0198A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0199A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0200A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0201A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0202A	0.13	0.31	0.65	NR	0.13	0.31	0.65	NR	ORDINARY DEATH; NDBM&F
0202B	0.10	0.27	0.99	NR	0.10	0.27	0.99	NR	ORDINARY DEATH; NDBM&F
0204A	0.14	0.43	1.01	3.04	0.08	0.21	0.58	1.85	1983 GAM (+1M, +3F)

TABLE E-3. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO ACTIVE MEMBER MORTALITY—Continued

SYSPLAN	AM-M40	AM-M50	AM-M60	AM-M70	AM-F40	AM-F5	AM-F60	AM-F70	AM-NOTE
0235A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM PROJECTED TO 1986 BY SCALE D, SET BACK 3 YRS
0235B	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0235C	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (SET BACK 3 YEARS)
0278A	0.13	0.19	0.54	NR	0.06	0.13	0.30	NR	1ST TIER MALE AND FEMALE; ORDINARY DEATH
0302A	0.12	0.40	0.92	NR	0.07	0.16	0.42	NR	1983 GAM (VALUES NOT SHOWN IN REPORT)
0303A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLE (+1M, -4F)
0303B*	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLE (+1M, -4F)
0304A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UNISEX PENSION TABLE (+1M, -4F)
0349A	0.16	0.53	1.31	3.61	0.09	0.22	0.55	1.65	NA
0349B*	0.14	0.42	1.09	2.92	0.08	0.18	0.44	1.29	NA
0361A	0.15	0.48	1.11	NR	0.08	0.19	0.52	NR	SOURCE NOT REPORTED
0361B	0.21	0.56	1.42	NR	0.19	0.51	1.30	NR	SOURCE NOT REPORTED
0361C	0.15	0.48	1.11	NR	0.08	0.19	0.52	NR	SOURCE NOT REPORTED
0373A	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 1984 (-0M, -6F)
0373B*	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 1984 (-0M, -6F)
0373C*	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 1984 (-0M, -6F)
0373D*	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 1984 (-0M, -6F)
0373E*	SHOWN AS EXPECTED YEARS OF REMAINING LIFE								1971 GAM PROJECTED TO 1984 (-0M, -6F)
0374A	0.15	0.34	0.65	NR	0.06	0.17	0.32	NR	NA
0374B*	0.22	0.46	0.96	NR	0.16	0.33	0.72	NR	DOES NOT INCLUDE CORRECTIONAL EMPLOYEES
0374C*	0.24	0.61	1.40	NR	0.24	0.61	1.40	NR	NDBM&F
0374D*	0.22	0.46	0.96	NR	0.22	0.46	0.96	NR	ORDINARY DEATH; NDBM&F
0374E*	0.13	0.28	0.58	NR	0.13	0.28	0.58	NR	NDBM&F
0375A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-1M, -6F)
0375B*	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-1M, -6F)
0375C*	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-1M, -6F)
0375D*	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-1M, -6F)
0376A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (-0M, -2F)
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NR
0376A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NON-OCCUPATIONAL: 1971 GAM (-0M, -6F); OTHERS: FORMULA
COUNT	144	144	140	51	143	143	139	51	NA
HIGH	0.27	0.71	1.80	3.61	0.27	0.69	1.70	2.75	NA
LOW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
AVG.	0.14	0.40	0.93	2.47	0.09	0.22	0.53	1.30	NA
ST. DEV.	0.04	0.13	0.29	0.84	0.05	0.12	0.27	0.49	NA

TABLE E-4. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABILITY RATES

SYSPLAN	D-M20	D-M25	D-M30	D-M35	D-M40	D-M45	D-M50	D-M55	D-F20	D-F25	D-F30	D-F35	D-F40	D-F45	D-F50	D-F55	D-NOTE
0001A	0.03	0.03	0.03	0.04	0.08	0.17	0.35	0.66	0.03	0.03	0.03	0.04	0.08	0.17	0.35	0.66	DATA ARE FOR AGES +2YRS
0001B	0.05	0.05	0.05	0.07	0.25	0.45	0.62	0.91	0.05	0.05	0.05	0.07	0.25	0.45	0.62	0.91	DATA ARE FOR AGES +2YRS
0002A	NR	0.00	0.00	0.06	0.13	0.19	0.24	0.26	NR	0.00	0.03	0.07	0.12	0.16	0.19	0.20	AFTER 10 YEARS OF SERVICE
0003A	0.04	0.04	0.06	0.08	0.10	0.15	0.25	0.40	0.04	0.04	0.06	0.08	0.10	0.15	0.25	0.40	DATA EXCLUDE TEACHERS
0003A1	0.01	0.01	0.02	0.03	0.06	0.11	0.20	0.34	0.02	0.03	0.04	0.04	0.07	0.12	0.20	0.35	NA
0003B	0.14	0.16	0.20	0.26	0.34	0.50	0.84	NA	0.14	0.16	0.20	0.26	0.34	0.50	0.84	NA	NA
0003C*	NR	0.05	0.06	0.07	0.10	0.15	0.25	0.44	0.05	0.06	0.07	0.10	0.15	0.25	0.44	0.44	NDBM&F
0004A	NR	NR	NR	0.04	0.12	0.25	0.44	0.73	NR	NR	NR	0.02	0.06	0.13	0.22	0.36	OWN OCCUPATION RATES
0005A	0.06	0.07	0.10	0.20	0.33	0.51	0.78	1.19	0.06	0.07	0.10	0.20	0.33	0.51	0.78	1.19	NDBM&F
0005B	NR	NR	0.09	0.11	0.17	0.30	0.50	0.88	NR	NR	0.09	0.11	0.17	0.30	0.50	0.88	NDBM&F
0005C	0.05	0.06	0.07	0.09	0.14	0.24	0.40	0.70	0.07	0.09	0.11	0.14	0.19	0.30	0.51	0.96	NA
0006A	0.04	0.05	0.07	0.11	0.17	0.23	0.30	0.35	0.04	0.05	0.07	0.11	0.17	0.23	0.30	0.35	NDBM&F
0006B*	0.01	0.01	0.03	0.08	0.11	0.10	0.08	0.03	0.01	0.01	0.03	0.08	0.11	0.10	0.08	0.03	DUTY DISABILITY; NDBM&F
0006C*	0.03	0.06	0.13	0.26	0.30	0.27	0.44	0.59	0.03	0.06	0.13	0.26	0.30	0.27	0.44	0.59	DUTY DISABILITY; NDBM&F
0006D*	0.04	0.05	0.07	0.11	0.17	0.23	0.30	0.35	0.04	0.05	0.07	0.11	0.17	0.23	0.30	0.35	NDBM&F
0007A	0.20	0.21	0.22	0.25	0.31	0.43	0.68	1.09	0.26	0.31	0.37	0.45	0.57	0.74	0.98	1.28	15% ARE DUTY RELATED
0010A	0.00	0.00	0.03	0.10	0.19	0.25	0.42	0.46	0.00	0.00	0.03	0.10	0.19	0.25	0.42	0.46	1981-1986 EXPERIENCE; NDBM&F
0010B	0.00	0.02	0.06	0.39	0.64	1.34	3.02	2.20	0.00	0.02	0.06	0.39	0.64	1.34	3.02	2.20	1981-1986 EXPERIENCE; NDBM&F
0010C	0.00	0.20	0.20	0.20	0.20	0.20	0.80	0.72	0.00	0.20	0.20	0.20	0.20	0.20	0.80	0.72	1981-1986 EXPERIENCE; NDBM&F
0013A	NR	0.01	0.01	0.02	0.06	0.11	0.26	0.49	NR	0.01	0.02	0.05	0.07	0.10	0.23	0.45	NA
0015A	NR	NR	0.59	NR	0.11	NR	0.26	NR	NR	NR	0.59	NR	0.11	NR	0.26	NR	NDBM&F
0019A	0.04	0.04	0.06	0.08	0.16	0.22	0.38	0.70	0.04	0.04	0.06	0.08	0.16	0.22	0.38	0.70	NDBM&F
0034A	0.08	0.08	0.08	NR	0.20	0.26	0.49	0.89	0.08	0.08	0.08	NR	0.20	0.26	0.49	0.89	NDBM&F
0043A	0.00	0.00	0.02	0.02	0.02	0.03	0.14	0.34	0.00	0.00	0.00	0.01	0.02	0.05	0.10	0.24	NA
0043B	0.04	0.06	0.04	0.11	0.18	0.29	0.50	0.88	0.04	0.06	0.04	0.11	0.18	0.29	0.50	0.88	NDBM&F
0043C	0.00	0.00	0.02	0.02	0.02	0.03	0.14	0.34	0.00	0.00	0.00	0.01	0.02	0.05	0.10	0.24	NA
0043D	0.00	0.00	0.02	0.02	0.02	0.03	0.14	0.34	0.00	0.00	0.00	0.01	0.02	0.05	0.10	0.24	NA
0043E	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE
0043F	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE
0048A	0.02	0.02	0.03	0.04	0.07	0.14	0.28	0.53	0.02	0.02	0.03	0.04	0.07	0.14	0.28	0.53	1989 EXPERIENCE; NDBM&F
0048B	0.02	0.02	0.03	0.04	0.07	0.14	0.28	0.53	0.02	0.02	0.03	0.04	0.07	0.14	0.28	0.53	1989 EXPERIENCE; NDBM&F
0048C	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	1989 EXPERIENCE; NDBM&F
0048D	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	1989 EXPERIENCE; NDBM&F
0048E	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	NR	0.03	0.03	NR	0.09	NR	0.35	0.66	1989 EXPERIENCE; NDBM&F
0055A	0.01	0.01	0.01	0.01	0.03	0.05	0.08	0.14	0.01	0.01	0.01	0.01	0.03	0.05	0.08	0.14	NDBM&F
0057A	NA	0.01	0.03	0.05	0.08	0.09	0.10	NA	NA	0.01	0.03	0.05	0.08	0.09	0.10	NA	NON-DUTY; NDBM&F
0057B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NDBM&F
0057C	NA	0.05	0.05	0.37	0.83	1.29	1.64	3.62	NA	0.05	0.05	0.37	0.83	1.29	1.64	3.62	NDBM&F
0057D	NA	NA	0.01	0.01	0.01	0.01	0.03	0.05	NA	NA	0.01	0.01	0.01	0.01	0.03	0.05	NDBM&F
0063A	0.04	NA	0.04	NA	0.06	NA	0.12	0.20	0.07	NA	0.08	NA	0.12	NA	0.24	0.40	NA
0064A	0.10	0.10	0.20	0.30	0.40	0.70	1.00	1.80	0.10	0.10	0.20	0.30	0.40	0.70	1.00	1.80	NDBM&F

TABLE E-4. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABILITY RATES—Continued

SYSPLAN	D-M20	D-M25	D-M30	D-M35	D-M40	D-M45	D-M50	D-M55	D-F20	D-F25	D-F30	D-F35	D-F40	D-F45	D-F50	D-F55	D-NOTE
0066A	0.00	0.00	0.03	0.09	0.11	0.19	0.34	0.57	0.00	0.00	0.01	0.04	0.11	0.21	0.37	0.62	BASED ON EXPERIENCE
0066B*	0.00	0.00	0.03	0.09	0.11	0.19	0.34	0.57	0.00	0.00	0.01	0.04	0.11	0.21	0.37	0.62	BASED ON EXPERIENCE
0066C*	0.00	0.00	0.03	0.09	0.11	0.19	0.34	0.57	0.00	0.00	0.01	0.04	0.11	0.21	0.37	0.62	BASED ON EXPERIENCE
0067A	NA	0.02	0.02	0.03	0.04	0.09	0.20	0.36	NA	0.02	0.02	0.03	0.06	0.11	0.15	0.31	NA
0068A	0.07	0.10	0.15	0.24	0.32	0.40	0.44	0.00	0.07	0.10	0.15	0.24	0.32	0.40	0.44	0.00	ORD. DISABILITY; NDBM&F
0069A	NA	0.01	0.03	0.04	0.05	0.16	0.24	0.72	NA	0.01	0.03	0.04	0.05	0.16	0.24	0.72	ORD. DISABILITY; NDBM&F
0071A	0.00	0.00	0.02	0.05	0.13	0.24	0.54	0.67	0.00	0.00	0.02	0.05	0.13	0.24	0.54	0.67	1981-86 EXP. STUDY; NDBM&F
0072A	0.01	0.10	0.07	0.12	0.28	0.51	0.81	1.13	0.10	0.10	0.06	0.08	0.20	0.41	0.69	1.02	TEACHERS
0076A	NA	0.01	0.04	0.10	0.29	0.49	0.84	1.44	NA	0.01	0.04	0.10	0.18	0.33	0.50	0.88	NA
0076B*	NA	0.01	0.01	0.03	0.07	0.14	0.23	0.47	NA	0.02	0.03	0.06	0.10	0.18	0.31	0.55	NA
0076C*	0.28	0.32	0.40	0.52	0.68	1.00	1.68	NA	0.28	0.32	0.40	0.52	0.68	1.00	1.68	NA	ORD. DISABILITY; NDBM&F
0079A	0.00	0.00	0.06	0.33	0.36	0.49	0.80	1.10	0.00	0.00	0.00	0.13	0.14	0.15	0.32	0.54	NA
0083A	NA	0.04	0.04	0.04	0.06	0.14	0.21	0.24	NA	0.04	0.04	0.05	0.07	0.13	0.25	0.34	1990 EXP. STUDY
0085A	NR	NR	NR	NR	0.05	0.08	0.15	0.28	NR	NR	NR	NR	0.05	0.08	0.15	0.28	NDBM&F
0086A	NR	NR	NR	NR	0.08	0.11	0.23	0.41	NR	NR	NR	NR	0.08	0.11	0.23	0.41	NDBM&F
0087A	NA	0.06	0.08	0.10	0.13	0.18	0.23	0.32	NA	0.04	0.05	0.06	0.07	0.10	0.13	0.18	NA
0087B*	NA	0.01	0.01	0.01	0.01	0.03	0.10	0.25	NA	0.01	0.01	0.01	0.01	0.03	0.10	0.25	NDBM&F
0087C*	NA	0.02	0.03	0.04	0.12	0.48	0.39	0.72	NA	0.02	0.03	0.04	0.12	0.48	0.39	0.72	ORD. DISABILITY; NDBM&F
0087D*	NA	0.03	0.05	0.07	0.20	0.80	0.65	1.20	NA	0.03	0.05	0.07	0.20	0.80	0.65	1.20	ORD. DISABILITY; NDBM&F
0096A	0.00	NA	0.01	NA	0.04	NA	0.29	NA	0.00	NA	0.02	NA	0.02	NA	0.21	NA	1990 EXPERIENCE STUDY
0098A	0.04	0.04	0.05	0.05	0.10	0.16	0.32	0.63	0.04	0.04	0.04	0.05	0.10	0.15	0.25	0.47	NA
0098B	0.06	0.06	0.07	0.09	0.13	0.19	0.57	0.86	0.06	0.06	0.07	0.09	0.13	0.19	0.57	0.86	NDBM&F
0098C	0.08	0.08	0.09	0.11	0.14	0.21	0.62	0.97	0.08	0.08	0.09	0.11	0.14	0.21	0.62	0.97	NDBM&F
0098D	0.04	0.04	0.05	0.05	0.10	0.16	0.32	0.63	0.04	0.04	0.04	0.05	0.10	0.15	0.25	0.47	NA
0098E*	0.02	0.02	0.02	0.03	0.05	0.08	0.17	0.31	0.02	0.02	0.02	0.02	0.04	0.07	0.13	0.28	NA
0104A	0.02	0.02	0.02	0.04	0.07	0.16	0.35	0.50	0.02	0.02	0.02	0.03	0.06	0.14	0.24	0.30	NA
0104A	0.02	0.02	0.02	0.03	0.05	0.07	0.14	0.24	0.02	0.02	0.02	0.03	0.05	0.07	0.14	0.24	NA
0106A	0.01	0.01	0.01	0.05	0.07	0.10	0.29	1.20	0.01	0.01	0.01	0.04	0.09	0.18	0.29	0.60	NA
0107A	NR	0.03	0.03	0.03	0.06	0.09	0.17	0.27	NR	0.02	0.02	0.03	0.07	0.14	0.22	0.32	EXPERIENCE
0112A	0.08	0.08	0.08	0.08	0.20	0.26	0.49	0.89	0.10	0.10	0.10	0.10	0.36	0.41	0.57	0.77	NR
0113A	NR	NR	0.01	0.04	0.14	0.29	0.48	0.71	NR	NR	0.01	0.05	0.09	0.21	0.39	0.60	AFTER 5 YEARS OF SERVICE
0113B*	NR	NR	0.01	0.02	0.04	0.10	0.21	0.48	NR	NR	0.01	0.03	0.05	0.12	0.29	0.57	AFTER 5 YEARS OF SERVICE
0113C*	NR	NR	0.03	0.19	0.71	1.46	2.40	NR	NR	NR	0.03	0.19	0.71	1.46	2.40	NR	AFTER 5 YEARS OF SERVICE
0113D*	NR	NR	0.01	0.04	0.14	0.29	0.48	0.71	NR	NR	0.01	0.05	0.09	0.21	0.40	0.60	AFTER 5 YEARS OF SERVICE
0121A	NR	0.04	0.08	0.16	0.24	0.44	0.62	0.81	NR	0.05	0.14	0.23	0.31	0.49	0.73	0.93	NA
0125A	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	NA
0125B*	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	NA
0125C*	0.01	0.04	0.05	0.12	0.19	0.32	0.76	1.10	0.01	0.04	0.05	0.12	0.19	0.32	0.76	1.10	NA
0125D*	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	0.01	0.04	0.06	0.20	0.27	0.43	0.83	1.12	NA
0125E*	NR	NR	0.06	0.07	0.10	0.17	0.31	0.56	NR	NR	0.06	0.07	0.10	0.17	0.31	0.56	NA
0134A	0.02	0.02	0.02	0.02	0.03	0.05	0.10	0.22	0.02	0.02	0.02	0.02	0.03	0.05	0.10	0.22	NDBM&F

TABLE E-4. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABILITY RATES—Continued

SYSPLAN	D-M20	D-M25	D-M30	D-M35	D-M40	D-M45	D-M50	D-M55	D-F20	D-F25	D-F30	D-F35	D-F40	D-F45	D-F50	D-F55	D-NOTE
0134B*	0.01	0.01	0.01	0.01	0.01	0.02	0.05	0.11	0.01	0.01	0.01	0.01	0.01	0.02	0.05	0.11	NDBM&F
0134C*	0.04	0.04	0.04	0.04	0.06	0.10	0.19	0.44	0.04	0.04	0.04	0.04	0.06	0.10	0.19	0.44	NDBM&F
0137A	NR	NR	0.00	0.01	0.04	0.09	0.20	NR	NR	NR	0.00	0.02	0.04	0.07	0.20	NR	NA
0138A	0.00	0.04	0.05	0.07	0.09	0.17	0.24	0.46	0.00	0.02	0.03	0.07	0.11	0.17	0.35	0.49	NA
0138C	0.00	0.04	0.05	0.07	0.09	0.17	0.24	0.46	0.00	0.02	0.03	0.07	0.11	0.17	0.35	0.49	NA
0138D	0.00	0.04	0.05	0.07	0.09	0.17	0.24	0.46	0.00	0.02	0.03	0.07	0.11	0.17	0.35	0.49	NA
0139A	NR	0.04	NR	0.07	NR	0.18	NR	0.50	NR	0.04	NR	0.07	NR	0.18	NR	0.50	50% OF 1964 OASDI FOR MEN
0144A	NR	NR	0.09	0.09	0.14	0.14	0.28	0.56	NR	NR	0.14	0.14	0.21	0.21	0.60	0.70	NON-DUTY; DATA FOR +2 YRS
0144B*	NR	NR	0.06	0.12	0.14	0.18	0.23	0.00	NR	NR	0.06	0.12	0.14	0.18	0.23	0.00	NON-DUTY; DATA FOR +2 YRS
0144C*	NR	NR	0.00	0.13	0.13	0.32	0.64	0.80	NR	NR	0.00	0.02	0.17	0.28	0.45	0.45	NON-DUTY; DATA FOR +2 YRS
0144D*	NR	NR	0.08	0.08	0.12	0.40	0.60	0.80	NR	NR	0.02	0.02	0.20	0.20	0.65	0.65	NON-DUTY; DATA FOR +2 YRS
0144E*	NR	NR	0.09	0.18	0.22	0.28	0.37	0.00	NR	NR	0.09	0.18	0.22	0.28	0.37	0.00	NON-DUTY; DATA FOR +2 YRS
0144F*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0145A	NR	0.07	0.08	0.16	0.27	0.46	0.75	1.22	NR	0.06	0.06	0.11	0.21	0.37	0.69	0.94	NA
0145B	NR	0.12	0.15	0.27	0.41	0.78	1.24	1.70	NR	0.12	0.15	0.27	0.41	0.78	1.24	1.70	NDBM&F
0145C*	NR	0.07	0.11	0.25	0.39	0.62	1.10	1.56	NR	0.06	0.06	0.11	0.21	0.37	0.69	0.94	NA
0147A	0.05	0.05	0.05	0.05	0.05	0.11	0.23	0.60	0.05	0.05	0.05	0.05	0.06	0.14	0.26	0.47	NA
0147B	0.05	0.05	0.05	0.05	0.07	0.25	0.63	0.95	0.05	0.05	0.05	0.05	0.07	0.25	0.63	0.95	NDBM&F
0147C	NR	0.05	NR	0.05	NR	0.12	NR	0.47	NR	0.05	NR	0.05	NR	0.12	NR	0.47	NDBM&F
0147D*	0.05	0.05	0.05	0.05	0.05	0.08	0.26	0.41	0.06	0.06	0.06	0.06	0.06	0.15	0.25	0.59	NA
0148A	0.06	0.06	0.09	0.09	0.12	0.15	0.33	1.05	0.04	0.05	0.07	0.10	0.15	0.27	0.62	1.28	NA
0151A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0154A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SOC. SEC. (ADJUSTED)
0154B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0161A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165D	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0165E	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0168A	NR	0.00	NR	0.07	NR	0.22	NR	0.64	NR	0.00	NR	0.05	NR	0.12	NR	0.54	NON-DUTY RATES
0168B*	NR	0.05	NR	0.08	NR	0.37	NR	0.73	NR	0.03	NR	0.08	NR	0.35	NR	0.61	NON-DUTY RATES
0168B*	NR	0.15	NR	0.26	NR	0.62	NR	1.82	NR	0.09	NR	0.26	NR	0.59	NR	1.53	NON-DUTY RATES
0169A	0.01	NR	0.06	NR	0.27	NR	0.83	NR	0.01	NR	0.05	NR	0.19	NR	0.76	NR	NA
0169B*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO ASSUMPTIONS
0170A	0.08	0.11	0.15	0.20	0.29	0.48	0.81	1.34	0.08	0.11	0.15	0.20	0.29	0.48	0.81	1.34	NDBM&F
0174A	0.01	0.01	0.01	0.01	0.03	0.06	0.30	0.55	0.01	0.01	0.01	0.01	0.03	0.07	0.14	0.45	NON-DUTY DISABILITY
0174B	0.02	0.02	0.02	0.03	0.05	0.11	0.37	0.65	0.02	0.02	0.02	0.02	0.05	0.10	0.19	0.51	NA
0174C	0.01	0.01	0.01	0.02	0.05	0.13	0.29	0.42	0.01	0.01	0.02	0.03	0.05	0.12	0.24	0.42	NA
0174D	0.01	0.01	0.01	0.02	0.05	0.13	0.29	0.42	0.01	0.01	0.02	0.03	0.05	0.12	0.24	0.42	NA
0174E	0.10	0.10	1.20	1.60	2.10	3.10	4.60	7.80	0.10	0.10	1.20	1.60	2.10	3.10	4.60	7.80	NDBM&F

TABLE E-4. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABILITY RATES—Continued

SYSPLAN	D-M20	D-M25	D-M30	D-M35	D-M40	D-M45	D-M50	D-M55	D-F20	D-F25	D-F30	D-F35	D-F40	D-F45	D-F50	D-F55	D-NOTE	
0174F	0.04	0.04	0.04	0.06	0.11	0.21	0.75	NR	0.04	0.04	0.04	0.06	0.11	0.21	0.75	NR	NDBM&F	
0174G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NO DISABILITY BENEFIT	
0174H	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1% RATE FOR ALL AGES	
0175A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1980-85 EXP. STUDY	
0175B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	150% OF 1964 OASDI	
0175C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	200% UNITED AUTOWORKERS	
0175D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1964 OASDI TABLE	
0175E*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1964 OASDI TABLE	
0175F*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	75% OF 1964 OASDI	
0178A	NR	0.08	0.08	0.10	0.12	0.16	0.24	0.40	NR	0.10	0.11	0.12	0.15	0.22	0.33	0.58	EXCLUDES PUBLIC SAFETY	
0181A	0.07	0.07	0.07	0.07	0.25	0.25	1.10	1.10	0.07	0.07	0.07	0.07	0.25	0.25	1.10	1.10	NDBM&F	
0182A	0.04	0.06	0.17	0.38	0.74	1.39	NR	NR	0.04	0.06	0.17	0.38	0.74	1.39	NR	NR	NDBM&F	
0183A	0.08	0.80	0.80	0.80	0.20	0.26	0.49	0.89	0.10	0.10	0.10	0.10	0.36	0.41	0.57	0.77	NA	
0185A	0.05	0.50	0.06	0.07	0.14	0.29	0.68	1.51	0.05	0.50	0.06	0.07	0.14	0.29	0.68	1.51	NDBM&F	
0186A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED	
0191A	NR	NR	0.03	NR	0.09	NR	0.54	0.77	NR	NR	0.05	NR	0.12	NR	0.48	0.70	SOURCE NOT REPORTED	
0193A	INCLUDED IN BEFORE-RETIREMENT WITHDRAWAL RATES																	
0193B	NR	0.06	0.07	0.30	0.60	0.90	1.10	1.50	NR	0.06	0.07	0.30	0.60	0.90	1.10	1.50	MID-RANGE; NDBM&F	
0193C	INCLUDED IN BEFORE-RETIREMENT WITHDRAWAL RATES																	
0195A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0196A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0197A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0198A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0199A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0200A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0201A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 DISABILITY TABLE
0202A	0.10	0.10	0.10	0.13	0.16	0.26	0.71	0.97	0.10	0.10	0.10	0.13	0.16	0.26	0.71	0.97	ORD. DISABILITY; NDBM&F	
0202B	0.09	0.09	0.09	0.18	0.33	0.57	1.67	5.51	0.09	0.09	0.09	0.18	0.33	0.57	1.67	5.51	ORD. DISABILITY; NDBM&F	
0204A	0.08	0.09	0.10	0.12	0.17	0.28	0.51	0.96	0.10	0.11	0.14	0.20	0.27	0.39	0.61	0.94	SOA 1987 DISABILITY STUDY	
0235A	0.00	0.00	NR	NR	NR	0.12	NR	0.55	0.00	0.00	NR	NR	NR	0.12	NR	0.55	NA	
0235B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	OASDI STUDY NO. 74
0235C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NO ASSUMPTIONS	
0278A	NR	0.01	0.04	0.10	0.17	0.19	0.39	0.46	NR	0.01	0.06	0.11	0.17	0.27	0.44	0.58	ORD. DISABILITY	
0302A	0.04	0.04	0.05	0.06	0.09	0.14	0.26	0.46	0.04	0.04	0.05	0.06	0.09	0.14	0.26	0.46	NDBM&F	
0303A	0.01	0.02	0.02	0.04	0.10	0.17	0.25	0.35	0.01	0.02	0.02	0.04	0.10	0.17	0.25	0.35	1986-90 EXP. STUDY	
0303B*	0.09	0.10	0.13	0.16	0.24	0.39	0.62	0.93	0.09	0.10	0.13	0.16	0.24	0.39	0.62	0.93	1986-90 EXP. STUDY	
0304A	0.01	0.02	0.02	0.04	0.10	0.17	0.25	0.35	0.01	0.02	0.02	0.04	0.10	0.17	0.25	0.35	1986-90 EXP. STUDY	
0349A	NR	0.06	0.06	0.07	0.11	0.22	0.42	0.72	NR	0.06	0.06	0.07	0.11	0.22	0.42	0.72	NDBM&F	
0349B*	NR	0.06	0.06	0.07	0.11	0.22	0.42	0.72	NR	0.06	0.06	0.07	0.11	0.22	0.42	0.72	NDBM&F	
0361A	NR	0.07	0.14	0.23	0.32	0.51	0.80	1.40	NR	0.07	0.14	0.23	0.32	0.51	0.80	1.40	SOURCE NOT REPORTED	
0361B	NR	0.26	0.34	0.51	0.75	1.18	1.95	3.41	NR	0.26	0.34	0.51	0.75	1.18	1.95	3.41	SOURCE NOT REPORTED	

TABLE E-4. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABILITY RATES—Continued

SYSPLAN	D-M20	D-M25	D-M30	D-M35	D-M40	D-M45	D-M50	D-M55	D-F20	D-F25	D-F30	D-F35	D-F40	D-F45	D-F50	D-F55	D-NOTE
0361C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SOURCE NOT REPORTED
0373A	0.07	0.09	0.10	0.14	0.21	0.32	0.52	0.92	0.07	0.09	0.10	0.14	0.21	0.32	0.52	0.92	NDBM&F
0373B*	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	NDBM&F
0373C*	0.07	0.09	0.10	0.14	0.21	0.32	0.52	0.92	0.07	0.09	0.10	0.14	0.21	0.32	0.52	0.92	NDBM&F
0373D*	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	NDBM&F
0373E*	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	0.15	0.18	0.20	0.29	0.42	0.65	1.05	1.84	NDBM&F
0374A	NR	0.01	0.01	0.02	0.06	0.11	0.35	0.64	NR	0.02	0.03	0.04	0.08	0.14	0.38	0.49	NA
0374B*	NR	0.03	0.04	0.08	0.18	0.35	0.63	1.03	NR	0.03	0.04	0.08	0.18	0.35	0.63	1.03	ORD. DISABILITY; NDBM&F
0374C*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
0374D*	NR	0.06	0.09	0.12	0.18	0.32	NR	NR	NR	0.06	0.09	0.12	0.18	0.32	NR	NR	ORD. DISABILITY; NDBM&F
0374E*	NR	0.05	0.07	0.11	0.17	0.23	0.30	0.35	NR	0.05	0.07	0.11	0.17	0.23	0.30	0.35	NDBM&F
0375A	0.06	NR	0.11	NR	0.24	NR	0.61	NR	0.06	NR	0.11	NR	0.24	NR	0.61	NR	EXPERIENCE; NDBM&F
0375B*	0.06	NR	0.11	NR	0.24	NR	0.61	NR	0.06	NR	0.11	NR	0.24	NR	0.61	NR	EXPERIENCE; NDBM&F
0375C*	0.11	NR	0.25	NR	0.96	NR	0.00	NR	0.11	NR	0.25	NR	0.96	NR	0.00	NR	EXPERIENCE; NDBM&F
0375D*	0.10	NR	0.23	NR	0.87	NR	1.10	NR	0.10	NR	0.23	NR	0.87	NR	1.10	NR	EXPERIENCE; NDBM&F
0376A	0.00	0.00	0.01	0.03	0.11	0.27	0.54	0.80	0.00	0.01	0.01	0.01	0.03	0.11	0.29	0.49	FOSTER HIGGINS' 1992 RATES
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0376A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0376A	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	SERVICE-RELATED
COUNT	97	128	144	137	147	141	145	138	98	128	144	137	147	141	145	138	NA
HIGH	1.00	1.00	1.20	1.60	2.10	3.10	4.60	7.80	1.00	1.00	1.20	1.60	2.10	3.10	4.60	7.80	NA
LOW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
AVG.	0.06	0.07	0.09	0.13	0.20	0.32	0.53	0.81	0.06	0.07	0.09	0.13	0.20	0.31	0.52	0.78	NA
ST. DEV.	0.12	0.13	0.16	0.19	0.25	0.37	0.56	0.92	0.12	0.12	0.15	0.18	0.25	0.37	0.56	0.91	NA

TABLE E-5. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO WITHDRAWAL FROM SERVICE

SYSPLAN	W-M20	W-M25	W-M30	W-M35	W-M40	W-M45	W-M50	W-M55	W-F20	W-F25	W-F30	W-F35	W-F40	W-F45	W-F50	W-F55	W-NOTE
0001A	20.50	16.10	12.30	9.20	6.70	4.70	3.20	2.20	20.50	16.10	12.30	9.20	6.70	4.70	3.20	2.20	DATA FOR AGES +2YRS
0001B	10.10	7.70	6.00	4.70	3.50	2.10	0.80	NA	10.10	7.70	6.00	4.70	3.50	2.10	0.80	NA	DATA FOR AGES +2YRS
0002A	NR	12.00	9.82	8.41	7.68	7.42	7.47	7.72	NR	15.11	11.42	8.95	7.49	6.80	6.61	6.80	W/ 6+ YRS SERVICE
0003A	13.94	12.46	9.78	7.38	5.57	4.27	3.18	2.14	12.55	11.21	8.80	6.64	5.01	3.84	2.86	1.93	EXCLUDES TEACHERS
0003A1	11.11	9.97	7.91	6.06	4.67	3.67	2.83	2.03	13.79	12.83	9.12	5.61	3.43	2.33	1.74	1.18	NA
0003B	3.45	3.21	2.28	1.40	0.86	0.58	0.44	NA	3.45	3.21	2.28	1.40	0.86	0.58	0.44	NA	NDBM&F
0003C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0004A	NR	NR	NR	NR	0.90	0.90	0.80	0.70	NR	NR	NR	NR	0.50	0.60	0.40	0.30	VESTED w/ 20 YRS SERVICE
0005A	22.80	19.50	10.40	7.60	6.30	4.40	2.80	1.40	22.80	19.50	10.40	7.60	6.30	4.40	2.80	1.40	NDBM&F
0005B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0005C	14.71	12.38	8.01	6.14	4.83	4.12	2.85	1.64	14.71	12.38	8.01	6.14	4.83	4.12	2.85	1.64	NDBM&F
0006A	29.40	21.60	15.40	10.60	7.20	4.90	3.60	2.10	29.40	21.60	15.40	10.60	7.20	4.90	3.60	2.10	NDBM&F
0006B*	10.30	7.30	4.20	1.80	1.00	0.50	0.10	0.00	10.30	7.30	4.20	1.80	1.00	0.50	0.10	0.00	NDBM&F
0006C*	3.55	2.88	2.29	1.62	0.99	0.48	0.08	NA	3.55	2.88	2.29	1.62	0.99	0.48	0.08	NA	NDBM&F
0006D*	29.40	21.60	15.40	10.60	7.20	4.90	3.60	2.10	29.40	21.60	15.40	10.60	7.20	4.90	3.60	2.10	NDBM&F
0007A	18.80	12.60	8.50	6.20	4.70	3.80	3.20	3.00	37.70	14.40	9.60	7.20	5.60	4.10	3.00	3.00	NA
0010A	9.92	5.98	2.37	0.98	0.53	0.57	1.53	3.16	9.92	5.98	2.37	0.98	0.53	0.57	1.53	3.16	1981-86 EXP.; NDBM&F
0010B	7.07	5.37	2.93	2.33	4.54	4.00	1.00	0.00	7.07	5.37	2.93	2.33	4.54	4.00	1.00	0.00	1981-86 EXP.; NDBM&F
0010C	5.67	4.97	3.43	1.70	1.55	4.81	1.00	0.00	5.67	4.97	3.43	1.70	1.55	4.81	1.00	0.00	1981-86 EXP.; NDBM&F
0013A	NR	10.01	7.02	5.88	5.24	4.85	4.58	4.42	NR	9.96	9.02	7.92	6.62	5.70	5.14	4.80	NA
0015A	BASED ON YEARS OF SERVICE: 9.0% < 6YS; 5% 6YS-10YS; 2% 11YS-20YS																
0019A	6.20	5.60	4.20	2.40	1.20	1.00	1.00	1.00	6.20	5.60	4.20	2.40	1.20	1.00	1.00	1.00	NDBM&F
0034A	NR	4.50	3.90	2.30	0.90	0.50	0.50	0.50	NR	4.50	3.90	2.30	0.90	0.50	0.50	0.50	POLICE; NDBM&F
0043A	24.00	16.00	10.40	7.20	5.30	4.10	3.20	2.10	37.00	29.10	21.20	14.10	9.20	6.30	4.70	3.30	NA
0043B	3.00	2.50	2.00	1.50	1.00	0.50	0.50	0.00	3.00	2.50	2.00	1.50	1.00	0.50	0.50	0.00	NDBM&F
0043C	24.00	16.00	10.40	7.20	5.30	4.10	3.20	2.10	37.00	29.10	21.20	14.10	9.20	6.30	4.70	3.30	NA
0043D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0043E	WITHDRAWAL RATES BASED ON YEARS OF SERVICE: 30% AT 2 YEARS; 20% AT 4 YEARS; 10% AT 6 YEARS; 5% AT 8 YEARS																
0043F	WITHDRAWAL RATES BASED ON YEARS OF SERVICE: 50% AT 4 YEARS; 50% AT 8 YEARS																
0048A	3.00	3.00	3.00	3.00	2.50	2.25	1.50	0.25	3.00	3.00	3.00	3.00	2.50	2.25	1.50	0.25	W/ 6+ YRS SERVICE
0048B	3.00	3.00	3.00	3.00	2.50	2.25	1.50	0.25	3.00	3.00	3.00	3.00	2.50	2.25	1.50	0.25	W/ 6+ YRS SERVICE
0048C	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	NDBM&F
0048D	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	NDBM&F
0048E	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	3.04	3.04	3.38	2.44	1.50	0.75	0.00	0.00	NDBM&F
0055A	11.50	11.00	8.70	5.40	4.15	2.95	2.15	1.35	19.50	11.10	7.00	4.30	3.20	2.20	1.70	1.20	NA
0057A	NR	9.63	5.54	3.21	2.45	1.86	1.38	NR	NR	9.63	5.54	3.21	2.45	1.86	1.38	NR	NDBM&F
0057B	5.40	3.41	1.65	0.80	0.41	0.15	0.00	0.00	5.40	3.41	1.65	0.80	0.41	0.15	0.00	0.00	AGE <= 45; NDBM&F
0057C	NA	17.08	4.40	0.23	0.12	0.06	0.00	0.00	NA	17.08	4.40	0.23	0.12	0.06	0.00	0.00	NDBM&F
0057D	NA	21.27	14.70	10.03	7.25	5.61	4.21	3.08	NA	24.37	18.00	13.10	10.21	7.94	5.62	4.13	GENERAL EMPLOYEES
0063A	16.90	NA	9.10	NA	3.50	NA	2.30	NA	18.67	NA	13.50	NA	5.50	NA	3.65	NA	NA
0064A	11.10	10.30	9.50	8.70	7.90	7.10	6.30	5.50	14.90	11.60	8.30	6.60	5.80	5.40	5.40	5.00	W/ 5 YEARS SERVICE

TABLE E-5. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO WITHDRAWAL FROM SERVICE—Continued

SYSPLAN	W-M20	W-M25	W-M30	W-M35	W-M40	W-M45	W-M50	W-M55	W-F20	W-F25	W-F30	W-F35	W-F40	W-F45	W-F50	W-F55	W-NOTE	
0066A	ANNUAL RATES OF TERMINATION SHOWN PER \$1000 OF SALARY																	
0066B*	ANNUAL RATES OF TERMINATION SHOWN PER \$1000 OF SALARY																	
0066C*	ANNUAL RATES OF TERMINATION SHOWN PER \$1000 OF SALARY																	
0067A	NA	7.46	6.64	3.06	1.73	1.32	1.45	1.75	NA	5.18	8.00	4.35	3.25	2.40	1.88	0.97	VESTED	
0068A	NA	2.10	1.50	1.00	0.67	0.52	0.52	0.00	NA	2.10	1.50	1.00	0.67	0.52	0.52	0.00	VESTED; NDBM&F	
0069A	NA	NA	0.09	0.31	0.29	0.42	0.85	0.90	NA	NA	0.09	0.31	0.29	0.42	0.85	0.90	VESTED; NDBM&F	
0071A	27.50	11.00	3.20	1.70	1.20	1.10	1.30	1.50	27.50	11.00	3.20	1.70	1.20	1.10	1.30	1.50	NDBM&F	
0072A	6.58	5.27	4.83	4.47	3.84	3.21	1.52	0.33	7.94	7.72	7.22	6.28	5.15	3.98	2.56	0.94	TEACHERS	
0076A	NA	10.21	7.00	5.05	3.46	2.63	3.84	3.21	NA	10.51	8.77	6.05	4.18	3.37	3.84	3.21	W/4+ YEARS SERVICE	
0076B*	NA	7.69	4.39	3.33	2.11	1.71	2.83	2.03	NA	8.91	5.93	3.85	2.65	2.02	1.74	1.18	NA	
0076C*	6.90	6.42	4.56	2.81	1.72	1.17	0.87	NA	6.90	6.42	4.56	2.81	1.72	1.17	0.87	NA	NDBM&F	
0079A	6.09	6.09	4.60	4.15	3.42	3.35	3.06	2.50	8.04	8.04	6.31	4.92	3.95	3.15	2.67	2.66	NA	
0083A	NA	8.60	8.05	7.86	7.50	6.64	5.21	4.32	NA	8.95	6.63	5.85	5.15	4.68	4.35	4.48	W/7+ YEARS SERVICE	
0085A	5.00	NR	4.50	NR	3.00	NR	1.20	NR	5.00	NR	4.50	NR	3.00	NR	1.20	NR	W/7+ YEARS SERVICE	
0086A	6.60	NR	6.60	NR	6.10	NR	3.90	NR	6.60	NR	6.60	NR	6.10	NR	3.90	NR	W/7+ YEARS SERVICE	
0087A	NA	17.16	13.76	11.47	8.74	7.69	8.87	9.56	NA	18.57	14.28	11.69	9.95	8.93	8.33	8.33	NA	
0087B*	NA	11.86	8.82	7.28	5.46	4.58	7.50	12.00	NA	10.73	7.87	7.15	5.00	3.23	3.79	12.00	NA	
0087C*	NA	14.00	12.00	10.00	11.00	11.50	12.00	11.00	NA	14.00	12.00	10.00	11.00	11.50	12.00	11.00	NDBM&F	
0087D*	NA	4.20	3.21	2.97	3.02	3.09	3.20	3.30	NA	4.20	3.21	2.97	3.02	3.09	3.20	3.30	NDBM&F	
0096A	9.37	NA	7.24	NA	6.94	NA	5.41	NA	7.25	NA	6.95	NA	5.75	NA	5.15	NA	W/6+ YEARS SERVICE	
0098A	NR	5.70	4.70	3.50	2.40	1.80	1.40	0.80	NR	8.00	6.70	4.80	3.70	3.10	2.90	1.80	W/6+ YEARS SERVICE	
0098B	NR	4.50	3.30	2.30	1.70	1.50	1.10	0.08	NR	4.50	3.30	2.30	1.70	1.50	1.10	0.08	W/6+ YEARS SERVICE	
0098C	NR	1.80	1.60	1.30	1.00	0.70	0.50	0.40	NR	1.80	1.60	1.30	1.00	0.70	0.50	0.40	W/6+ YEARS SERVICE	
0098D	NA	8.60	7.70	6.40	5.30	3.70	2.90	1.40	NR	8.60	7.70	6.40	5.30	3.70	2.90	1.40	NDBM&F	
0098E*	NR	8.30	5.40	2.90	1.80	1.50	1.50	1.30	NR	9.50	7.20	4.30	2.60	2.00	2.00	1.80	W/6+ YEARS SERVICE	
0104A	18.00	15.00	10.80	7.80	5.60	4.30	3.20	2.40	18.00	15.00	10.80	7.80	5.60	4.30	3.20	2.40	W/3+ YEARS SERVICE	
0104A	12.00	11.20	8.40	5.20	3.20	1.80	1.50	1.50	12.00	11.20	8.40	5.20	3.20	1.80	1.50	1.50	W/3+ YEARS SERVICE	
0106A	9.00	8.00	6.75	5.50	4.25	3.20	2.30	NR	8.50	8.00	7.40	6.40	4.60	2.80	1.80	NR	NA	
0107A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	EXPERIENCE
0112A	12.00	11.00	7.00	4.00	3.50	3.20	1.50	1.00	12.00	11.00	7.00	4.90	4.20	3.70	2.00	1.50	W/6+ YEARS SERVICE	
0113A	NR	8.80	5.30	3.70	2.60	1.70	1.40	1.40	NR	11.00	8.30	5.90	3.80	2.60	1.70	1.10	NA	
0113B*	NR	8.10	4.50	2.40	1.90	1.40	1.00	0.90	NR	10.50	7.30	4.30	2.70	2.10	1.70	1.70	NA	
0113C*	NR	1.00	1.00	1.00	1.00	1.00	1.00	NR	NR	1.00	1.00	1.00	1.00	1.00	1.00	NR	NDBM&F	
0113D*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED	
0121A	5.00	5.46	5.36	5.36	3.76	2.93	2.17	1.90	11.76	11.76	11.50	8.97	6.82	6.11	5.45	5.11	W/6+ YEARS SERVICE	
0125A	8.00	8.00	6.33	4.71	4.04	4.00	4.00	4.00	10.00	10.00	9.54	7.86	6.00	5.15	4.90	4.65	NA	
0125B*	6.00	6.00	5.10	2.70	1.60	1.10	1.00	1.00	6.00	6.00	5.10	2.70	1.60	1.10	1.00	1.00	NA	
0125C*	7.71	7.41	5.77	3.80	3.11	3.00	3.00	3.00	8.00	8.00	7.60	5.56	4.26	3.69	3.50	3.50	NA	
0125D*	8.00	8.00	6.33	4.71	4.04	4.00	4.00	4.00	10.00	10.00	9.54	7.86	6.00	5.15	4.90	4.65	NA	
0125E*	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	NA	
0134A	20.75	12.90	9.20	6.40	4.50	2.90	2.25	2.25	20.75	12.90	9.20	6.40	4.50	2.90	2.25	2.25	NDBM&F	

TABLE E-5. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO WITHDRAWAL FROM SERVICE—Continued

SYSPLAN	W-M20	W-M25	W-M30	W-M35	W-M40	W-M45	W-M50	W-M55	W-F20	W-F25	W-F30	W-F35	W-F40	W-F45	W-F50	W-F55	W-NOTE
0134B*	20.75	12.90	9.20	6.40	4.50	2.90	2.25	2.25	20.75	12.90	9.20	6.40	4.50	2.90	2.25	2.25	NDBM&F
0134C*	7.49	6.07	4.65	3.18	2.25	1.83	1.50	1.50	7.49	6.07	4.65	3.18	2.25	1.83	1.50	1.50	NDBM&F
0137A	10.00	4.30	5.17	7.50	9.00	4.87	2.31	NR	5.02	8.94	10.22	9.76	4.67	3.89	7.27	NR	W/ 6+ YEARS SERVICE
0138A	10.00	10.00	8.80	6.20	4.40	3.40	2.70	1.90	10.00	10.00	8.20	5.80	4.70	4.20	3.70	2.60	W/ 6+ YEARS SERVICE
0138C	10.00	10.00	8.80	6.20	4.40	3.40	2.70	1.90	10.00	10.00	8.20	5.80	4.70	4.20	3.70	2.60	W/ 6+ YEARS SERVICE
0138D	10.00	10.00	8.80	6.20	4.40	3.40	2.70	1.90	10.00	10.00	8.20	5.80	4.70	4.20	3.70	2.60	W/ 6+ YEARS SERVICE
0139A	BASED UPON YEARS OF SERVICE: MALES OYS = 18.0%, 9YS = 4.0%; FEMALES OYS = 24.0%, 9YS = 5.0%																
0144A	17.00	9.00	6.00	5.00	3.00	3.00	2.00	NR	16.00	13.00	9.00	6.00	5.00	4.00	3.00	NR	W/ 6+ YEARS SERVICE
0144B*	3.00	3.00	3.00	2.00	2.00	2.00	NR	NR	3.00	3.00	3.00	2.00	2.00	2.00	NR	NR	W/ 6+ YEARS SERVICE
0144C*	18.00	6.00	4.00	3.00	2.00	2.00	2.00	NR	18.00	9.00	6.00	3.00	3.00	3.00	2.00	NR	W/ 6+ YEARS SERVICE
0144D*	8.00	6.00	6.00	4.00	3.00	3.00	2.00	NR	19.00	13.00	10.00	8.00	6.00	5.00	3.00	NR	W/ 6+ YEARS SERVICE
0144E*	4.00	5.00	4.00	3.00	2.00	2.00	NR	NR	4.00	5.00	4.00	3.00	2.00	2.00	NR	NR	W/ 6+ YEARS SERVICE
0144F*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0145A	NR	8.30	7.20	5.90	4.40	3.30	2.50	1.70	NR	9.90	8.90	7.30	5.40	4.40	3.40	2.40	NA
0145B	NR	5.70	4.80	4.10	3.60	3.20	2.40	1.70	NR	5.70	4.80	4.10	3.60	3.20	2.40	1.70	NDBM&F
0145C*	NA	8.70	7.20	6.10	5.00	4.10	3.20	2.30	NR	10.90	10.00	8.30	6.40	5.30	4.20	2.90	NA
0147A	14.00	11.80	9.20	7.10	5.90	5.00	4.20	NA	24.00	19.40	13.50	10.00	8.50	6.90	5.40	6.00	W/ 6+ YEARS SERVICE
0147B	11.80	10.50	7.80	5.60	4.50	4.40	NA	NA	11.80	10.50	7.80	5.60	4.50	4.40	NA	NA	W/ 6+ YEARS SERVICE
0147C	NR	10.00	NR	5.10	NR	4.00	NR	7.20	NR	10.00	NR	5.10	NR	4.00	NR	7.20	NDBM&F
0147D*	13.80	13.00	9.00	5.30	3.80	2.90	2.60	NA	22.00	17.40	10.50	5.80	3.90	3.30	2.80	NA	W/ 6+ YEARS SERVICE
0148A	39.42	22.02	13.46	8.46	5.25	4.12	3.46	5.14	30.35	18.71	12.99	8.83	6.59	4.44	3.86	4.49	NA
0151A	38.80	19.66	14.61	11.42	9.57	8.45	6.45	0.00	38.80	19.66	14.61	11.42	9.57	8.45	6.45	0.00	DATA FOR AGES +2 YRS
0154A	16.00	9.00	6.00	5.00	4.00	3.00	2.00	2.00	16.00	11.00	9.00	7.00	6.00	5.00	4.00	4.00	W/ 6+ YEARS SERVICE
0154B	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	W/ 6+ YEARS SERVICE
0161A	NR	8.30	5.40	2.90	1.80	1.50	1.50	1.30	NR	9.50	7.20	4.30	2.60	2.00	2.00	1.80	W/ 6+ YEARS SERVICE
0165A	NR	6.14	5.37	4.38	3.36	2.59	2.41	2.93	NR	11.28	9.69	8.12	6.62	5.43	4.82	5.05	W/ 6+ YEARS SERVICE
0165B	NR	5.39	3.91	2.69	1.78	1.25	1.27	2.02	NR	9.36	6.56	4.41	2.91	2.13	1.92	2.18	W/ 6+ YEARS SERVICE
0165C	NR	5.33	4.57	3.98	3.53	6.64	3.16	3.19	NR	5.33	4.57	3.98	3.53	6.64	3.16	3.19	W/ 6+ YEARS SERVICE
0165D	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0165E	NR	2.68	2.03	1.50	1.10	1.17	1.22	1.27	NR	2.68	2.03	1.50	1.10	1.17	1.22	1.27	W/ 6+ YEARS SERVICE
0168A	NR	9.10	NR	7.60	NR	6.50	NR	5.80	NR	9.00	NR	7.40	NR	6.30	NR	5.60	W/ 6+ YEARS SERVICE
0168B*	NR	5.90	NR	5.90	NR	5.90	NR	5.90	NR	7.00	NR	7.00	NR	7.00	NR	7.00	W/ 6+ YEARS SERVICE
0168B*	NR	29.50	NR	4.20	NR	2.70	NR	1.90	NR	25.70	NR	4.30	NR	1.90	NR	1.30	NA
0169A	0.01	NR	0.06	NR	0.27	NR	0.83	NR	0.01	NR	0.05	NR	0.19	NR	0.76	NR	NA
0169B*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0170A	7.94	7.72	7.22	6.28	5.15	3.98	2.56	0.94	7.94	7.72	7.22	6.28	5.15	3.98	2.56	0.94	NDBM&F
0174A	9.45	8.61	6.09	5.04	3.78	3.15	2.94	2.52	9.80	9.20	7.80	6.80	5.40	5.00	5.00	4.40	W/ 6+ YEARS SERVICE
0174B	9.45	8.61	6.09	5.04	3.78	3.15	2.94	2.52	9.80	9.20	7.80	6.80	5.40	5.00	5.00	4.40	W/ 6+ YEARS SERVICE
0174C	2.70	2.70	3.00	4.50	3.90	3.00	2.70	2.70	4.24	4.24	5.83	5.57	3.98	3.18	3.45	3.71	W/ 6+ YEARS SERVICE
0174D	2.70	2.70	3.00	4.50	3.90	3.00	2.70	2.70	4.24	4.24	5.83	5.57	3.98	3.18	3.45	3.71	W/ 6+ YEARS SERVICE
0174E	BASED ON YEARS OF SERVICE: 1YS = 5.8%, 10YS = 1.1%																

TABLE E-5. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO WITHDRAWAL FROM SERVICE—Continued

SYSPLAN	W-M20	W-M25	W-M30	W-M35	W-M40	W-M45	W-M50	W-M55	W-F20	W-F25	W-F30	W-F35	W-F40	W-F45	W-F50	W-F55	W-NOTE	
0174F	BASED ON YEARS OF SERVICE: 1YS = 5.8%, 10YS = 1.1%																	
0174G	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.8%	RATE FOR ALL AGES
0174H	2% RATE IS ASSUMED FOR FIRST 10 YEARS OF SERVICE																	
0175A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1980-85 EXP. STUDY
0175B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SARASON T-1 TABLE
0175C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SARASON T-6 TABLE
0175D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SARASON T-4 TABLE
0175E*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SARASON T-2 TABLE
0175F*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	50% EVERY 4 YEARS
0178A	NR	27.00	21.00	16.00	12.00	8.50	5.94	3.06	NR	27.00	21.00	16.00	12.00	8.50	5.94	3.06	NDBM&F	
0181A	5.00	5.00	5.00	5.00	5.00	2.50	1.00	1.00	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	W/ 6+ YEARS SERVICE	
0182A	5.41	4.86	3.55	2.00	0.43	NR	NR	NR	5.41	4.86	3.55	2.00	0.43	NR	NR	NR	NDBM&F	
0183A	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	NDBM&F
0185A	5.00	5.00	5.00	5.00	5.00	2.50	1.00	1.00	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	W/ 6+ YEARS SERVICE	
0186A	NR	9.80	7.80	6.40	5.40	4.70	3.90	2.90	NR	9.80	7.80	6.40	5.40	4.70	3.90	2.90	DATA FOR AGES 2+ YRS	
0191A	6.84	NR	5.24	NR	2.36	NR	1.20	1.22	4.53	NR	4.79	NR	1.98	NR	1.19	1.01	SOURCE NOT REPORTED	
0193A	16.03	13.00	9.90	7.28	5.44	4.84	4.05	3.61	18.60	15.51	11.96	8.51	6.34	5.64	4.49	3.91	DATA FOR AGES 2+ YRS	
0193B	NR	9.10	7.90	5.80	3.70	2.00	0.60	0.00	NR	9.10	7.90	5.80	3.70	2.00	0.60	0.00	DATA FOR AGES 2+ YRS	
0193C	5.40	5.30	5.10	4.70	3.50	1.80	0.40	NR	5.40	5.30	5.10	4.70	3.50	1.80	0.40	NR	NDBM&F	
0195A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0196A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0197A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0198A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0199A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0200A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0201A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1987 EXP. STUDY
0202A	14.93	12.49	9.92	8.35	7.26	6.15	5.00	3.92	14.93	12.49	9.92	8.35	7.26	6.15	5.00	3.92	NON-VESTED; NDBM&F	
0202B	6.61	3.83	2.64	2.02	4.22	6.55	6.72	6.72	6.61	3.83	2.64	2.02	4.22	6.55	6.72	6.72	NON-VESTED; NDBM&F	
0204A	9.10	NR	7.10	NR	5.50	NR	4.60	NR	16.80	NR	9.30	NR	5.63	NR	4.26	NA	W/ 6+ YEARS SERVICE	
0235A	NR	7.80	NR	NR	3.50	NR	NR	3.50	NR	10.60	NR	NR	5.00	NR	NR	4.20	W/ 4+ YEARS SERVICE	
0235B	RATES VARY BY SERVICE: <15YS = 1.5%, >=15YRS = 0%																	
0235C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NONE ASSUMED
0278A	NR	1.17	2.50	2.23	1.38	0.88	0.46	0.28	NR	1.11	2.79	2.34	1.71	1.21	0.67	0.41	1ST TIER W/ 6+ YOS	
0302A	10.00	8.00	5.00	3.00	3.00	2.00	2.00	0.00	11.00	8.80	5.50	3.30	3.30	2.20	2.20	0.00	W/ 3+ YEARS SERVICE	
0303A	6.50	6.50	6.00	5.50	5.50	0.50	0.50	0.50	6.50	6.50	6.00	5.50	5.50	0.50	0.50	0.50	W/ 11+ YEARS SERVICE	
0303B*	3.00	3.00	3.00	3.00	1.00	1.00	1.00	1.00	3.00	3.00	3.00	3.00	1.00	1.00	1.00	1.00	W/ 11+ YEARS SERVICE	
0304A	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	3.00	3.00	3.00	3.00	2.00	2.00	2.00	2.00	W/ 11+ YEARS SERVICE	
0349A	15.00	10.00	8.00	6.00	4.50	3.00	2.50	2.00	15.00	10.00	8.00	6.00	4.50	3.00	2.50	2.00	W/ 3+ YEARS SERVICE	
0349B*	15.00	10.00	8.00	6.00	4.50	3.00	2.50	2.00	15.00	10.00	8.00	6.00	4.50	3.00	2.50	2.00	W/ 3+ YEARS SERVICE	
0361A	NR	18.20	9.70	6.20	3.00	1.70	1.20	0.00	NR	18.20	9.70	6.20	3.00	1.70	1.20	0.00	NA	
0361B	NR	6.60	3.40	1.70	0.70	0.40	0.00	0.00	NR	6.60	3.40	1.70	0.70	0.40	0.00	0.00	NA	

TABLE E-5. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO WITHDRAWAL FROM SERVICE—Continued

SYSPLAN	W-M20	W-M25	W-M30	W-M35	W-M40	W-M45	W-M50	W-M55	W-F20	W-F25	W-F30	W-F35	W-F40	W-F45	W-F50	W-F55	W-NOTE
0361C	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
0373A	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	W/ 5+ YEARS SERVICE
0373B*	4.50	3.90	2.30	0.90	0.50	0.50	0.50	0.50	4.50	3.90	2.30	0.90	0.50	0.50	0.50	0.50	W/ 5+ YEARS SERVICE
0373C*	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	6.00	6.00	6.00	6.00	6.00	3.50	1.50	1.50	W/ 5+ YEARS SERVICE
0373D*	NR	6.00	5.10	2.70	1.60	1.10	1.00	1.00	NR	6.00	5.10	2.70	1.60	1.10	1.00	1.00	PLANS 1&2 W/ 5+ YOS
0373E*	NR	4.50	3.90	2.30	0.90	0.50	0.50	0.50	NR	4.50	3.90	2.30	0.90	0.50	0.50	0.50	PLANS 1&2 W/ 5+ YOS
0374A	NR	8.10	5.60	4.20	2.70	2.00	1.50	1.60	NR	10.60	8.00	5.80	4.20	3.10	2.70	2.60	NA
0374B*	NR	15.10	11.20	8.80	7.00	5.60	5.60	4.60	NR	15.10	11.20	8.80	7.00	5.60	5.60	4.60	NDBM&F
0374C*	20% AFTER 8 YEARS OF SERVICE AND EVERY 4 YEARS THEREAFTER																
0374D*	NR	3.40	2.40	1.50	1.20	0.90	0.00	0.00	NR	3.40	2.40	1.50	1.20	0.90	0.00	0.00	NDBM&F
0374E*	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
0375A	12.00	NR	5.55	NR	2.31	NR	1.46	NR	12.00	NR	5.55	NR	2.31	NR	1.46	NR	EXPERIENCE; NDBM&F
0375B*	12.00	NR	5.55	NR	2.31	NR	1.46	NR	12.00	NR	5.55	NR	2.31	NR	1.46	NR	EXPERIENCE; NDBM&F
0375C*	2.10	NR	1.65	NR	0.56	NR	0.00	NR	2.10	NR	1.65	NR	0.56	NR	0.00	NR	EXPERIENCE; NDBM&F
0375D*	2.10	NR	1.65	NR	0.56	NR	0.00	NR	2.10	NR	1.65	NR	0.56	NR	0.00	NR	EXPERIENCE; NDBM&F
0376A	13.58	10.12	7.49	5.26	4.05	3.64	2.63	1.65	11.91	9.69	7.23	5.06	3.98	3.73	3.50	1.74	BASED ON EXPERIENCE
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0376A	2.49% ANNUALLY DUE TO FAILURE TO GAIN RE-ELECTION AND 2% ANNUALLY FOR OTHER CAUSES																
0376A	NR	4.00	1.00	1.00	1.00	1.00	1.00	1.00	NR	4.00	1.00	1.00	1.00	1.00	1.00	1.00	NDBM&F
COUNT	103	140	147	140	149	140	144	125	103	140	147	140	149	140	144	126	NA
HIGH	39.42	29.50	21.00	16.00	12.00	11.50	12.00	12.00	38.80	29.10	21.20	16.00	12.00	11.50	12.00	12.00	NA
LOW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	NA
AVG.	9.50	7.98	5.71	4.38	3.35	2.78	2.17	1.98	10.46	8.80	6.49	4.91	3.69	3.05	2.40	2.20	NA
ST. DEV.	8.01	5.55	3.67	2.86	2.40	2.08	1.93	2.14	9.07	6.10	4.31	3.26	2.59	2.23	2.02	2.21	NA

TABLE E-6. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO SERVICE RETIREMENT

SYSPLAN	SR-M55	SR-M60	SR-M62	SR-M65	SR-M67	SR-F55	SR-F60	SR-F62	SR-F65	SR-F67	SR-NOTE
0001A	5.00	30.00	25.00	75.00	50.00	5.00	30.00	25.00	75.00	50.00	AFTER 30 YEARS OF SERVICE
0001B	30.00	30.00	25.00	75.00	50.00	30.00	30.00	25.00	75.00	50.00	AFTER 30 YEARS OF SERVICE
0002A	2.56	12.22	27.04	39.31	NR	4.32	15.63	27.77	34.90	NR	FOR 20 TO 24 YEARS OF SERVICE
0003A	5.00	10.00	NR	NR	NR	5.00	10.00	NR	NR	NR	NA
0003A1	5.00	10.00	NR	NR	NR	5.00	15.00	NR	NR	NR	NA
0003B	0.65	9.90	NR	NR	NR	6.50	9.90	NR	NR	NR	+20% WHEN 1ST ELIGIBLE FOR FULL BENEFITS
0003C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	JUDGES ARE ASSUMED TO RETIRE AT AGE 68;
0004A	12.00	20.00	50.00	75.00	55.00	10.00	35.00	40.00	50.00	45.00	ASSUMES ENTRY AGE BETWEEN 20 AND 30
0005A	10.00	10.00	30.00	50.00	NR	10.00	10.00	30.00	50.00	NR	NDBM&F
0005B	30% ASSUMED TO RETIRE IN 1ST YEAR ELIGIBLE; 5% IN EACH YEAR THEREAFTER; 100% AT AGE 70%										
0005C	7.50	10.00	20.00	30.00	NR	12.00	15.00	35.00	30.00	NR	+10% MALES AND 15% FEMALES WHEN 1ST ELIGIBLE
0006A	7.70	11.30	NR	65.00	NR	7.70	11.30	NA	65.00	NR	+10% WHEN 1ST ELIGIBLE FOR UNREDUCED BENEFITS
0006B*	15.80	100.00	100.00	100.00	100.00	15.80	100.00	100.00	100.00	100.00	+25% WHEN 1ST ELIGIBLE; NDBM&F
0006C*	25% @ 20YS; 3.0% @ 21-29YS; 75% @ 30YS; 100% @ AGE 65										BASED ON YEARS OF SERVICE
0006D*	7.70	11.30	NR	65.00	NR	7.70	11.30	NR	65.00	NR	+10% WHEN 1ST ELIGIBLE FOR UNREDUCED BENEFITS
0007A	10.00	25.00	20.00	40.00	25.00	10.00	25.00	20.00	40.00	25.00	+10% AT AGE 30; NDBM&F
0010A	15.00	14.00	NR	32.00	NR	15.00	14.00	NR	32.00	NA	1981-1986 EXPERIENCE STUDY; NDBM&F
0010B	38.00	36.00	NR	42.00	NR	38.00	36.00	NR	42.00	NA	1981-1986 EXPERIENCE STUDY; NDBM&F
0010C	34.00	21.00	NR	44.00	NR	34.00	21.00	NR	44.00	NA	1981-1986 EXPERIENCE STUDY; NDBM&F
0013A	20.90	18.15	NR	44.00	NR	19.80	19.80	NR	36.30	NA	NA
0015A	1.00	15.00	15.00	20.00	28.00	1.00	15.00	15.00	20.00	28.00	NDBM&F
0019A	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	NA
0034A	40.00	60.00	30.00	100.00	100.00	40.00	60.00	30.00	100.00	100.00	FOR PAID SERVICE POLICEMEN
0043A	0.00	1.50	5.00	100.00	100.00	0.00	1.50	5.00	100.00	100.00	NA
0043B	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100% AT AGE 58
0043C	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100% AT AGE 58
0043D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100% AT AGE 68
0043E	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100% AT AGE 62
0043F	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100% AT AGE 62
0048A	3.00	5.00	25.00	50.00	20.00	3.00	5.00	25.00	50.00	20.00	NA
0048B	3.00	5.00	25.00	50.00	20.00	3.00	5.00	25.00	50.00	20.00	NA
0048C	50% WILL RETIRE IN 1ST YEAR ELIGIBLE FOR UNREDUCED BENEFITS; REST AT AGE 60										
0048D	50% WILL RETIRE IN 1ST YEAR ELIGIBLE FOR UNREDUCED BENEFITS; REST AT AGE 55										
0048E	50% WILL RETIRE IN 1ST YEAR ELIGIBLE FOR UNREDUCED BENEFITS; REST AT AGE 60										
0055A	1.00	9.50	34.50	80.50	30.50	2.00	7.50	30.50	75.50	35.50	NA
0057A	FOR EMPLOYEES HIRED BEFORE 3/1/85: AGE 53; FOR EMPLOYEES HIRED ON OR AFTER 3/1/85: AGE 55										
0057B	VARIES FROM AGE 60 FOR ENTRY AGES 15 THROUGH 45 TO AGE 70 FOR ENTRY AGES 65										
0057C	ATTAINMENT OF 22 YEARS OF SERVICE OR AGE 60, IF EARLIER										
0057D	5.00	10.00	20.00	40.00	NR	5.00	10.00	20.00	40.00	NR	NA
0063A	9.70	27.00	NR	36.50	NR	9.70	18.00	NR	33.00	NR	NA
0064A	NA	10.00	20.00	75.00	25.00	NA	10.00	20.00	75.00	25.00	NDBM&F

TABLE E-6. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR-M55	SR-M60	SR-M62	SR-M65	SR-M67	SR-F55	SR-F60	SR-F62	SR-F65	SR-F67	SR-NOTE
0066A	10.00	25.00	NR	72.50	NR	20.00	25.00	NR	50.00	NA	ASSUMES 30 YEAR ENTRY AGE
0066B*	10.00	25.00	NR	72.50	NR	20.00	25.00	NR	50.00	NA	ASSUMES 30 YEAR ENTRY AGE
0066C*	10.00	25.00	NR	72.50	NR	20.00	25.00	NR	50.00	NA	ASSUMES 30 YEAR ENTRY AGE
0067A	7.00	10.00	NR	30.00	NR	8.10	9.00	NR	24.80	NA	NA
0068A	15.50	19.50	19.50	100.00	100.00	15.50	19.50	19.50	100.00	100.00	ASSUMES LESS THAN 23 YEARS OF SERVICE
0069A	11.00	8.00	NR	21.00	NR	11.00	8.00	NR	21.00	NA	NDBM&F
0071A	47.00	32.00	27.00	44.00	32.00	47.00	32.00	27.00	44.00	32.00	NDBM&F
0072A	15.00	15.00	30.00	70.00	30.00	15.00	15.00	30.00	70.00	30.00	TEACHERS; NDBM&F
0076A	10.00	15.00	NR	42.00	NR	20.00	10.00	NR	35.00	NA	NA
0076B*	10.00	15.00	NR	45.00	NR	12.00	15.00	40.00	NR	NA	NA
0076C*	10.00	15.00	NR	75.00	NR	10.00	15.00	NR	75.00	NA	NDBM&F
0079A	10.00	10.00	NR	40.00	NR	18.00	25.00	NR	35.00	NA	NA
0083A	3.00	25.00	40.00	55.00	NR	3.00	30.00	37.00	40.00	NA	AFTER 20 YEARS OF SERVICE
0085A	NR	25.00	20.00	30.00	30.00	NR	25.00	20.00	30.00	30.00	WITH 5 YEARS OF SERVICE; NDBM&F
0086A	NR	10.00	30.00	40.00	20.00	NR	10.00	30.00	40.00	20.00	WITH 5 YEARS OF SERVICE; NDBM&F
0087A	3.30	NR	NR	NR	13.20	3.30	NR	NR	NR	13.20	NDBM&F; AGE 55 IS EARLY RETIREMENT
0087B*	2.25	NR	NR	NR	11.50	2.25	NR	NR	NR	11.50	NDBM&F; AGE 55 IS EARLY RETIREMENT
0087C*	21.00	21.00	NR	NR	35.00	21.00	21.00	NR	NR	35.00	NDBM&F
0087D*	24.15	17.25	NR	NR	26.00	24.15	17.25	NR	NR	26.00	NDBM&F
0096A	10.00	14.70	17.50	35.00	NR	10.00	20.00	23.50	38.00	NR	AFTER 20 YEARS OF SERVICE
0098A	5.00	10.00	30.00	60.00	40.00	5.00	10.00	30.00	60.00	40.00	NDBM&F
0098B	30.00	30.00	50.00	50.00	50.00	30.00	30.00	50.00	50.00	50.00	NDBM&F
0098C	30.00	30.00	50.00	50.00	50.00	30.00	30.00	50.00	50.00	50.00	NDBM&F
0098D	5.00	10.00	20.00	40.00	30.00	5.00	10.00	20.00	40.00	30.00	NDBM&F
0098E*	5.00	5.00	18.00	40.00	40.00	8.00	8.00	20.00	40.00	40.00	UNIVERSITY EMPLOYEES
0104A	1.00	5.00	21.00	30.00	19.00	2.00	7.00	20.00	31.00	20.00	NA
0104A	5.00	9.00	20.00	35.00	25.00	5.00	15.00	20.00	38.00	30.00	NA
0106A	9.30	12.00	16.50	47.30	NR	9.20	15.00	20.00	51.00	NR	NA
0107A	7.00	25.00	22.00	30.00	26.50	7.50	19.00	18.00	25.00	22.50	EXPERIENCE STUDY
0112A	15.00	10.00	12.00	65.00	30.00	15.00	15.00	15.00	70.00	40.00	NA
0113A	2.00	3.50	25.00	60.00	36.00	3.00	3.50	30.00	65.00	36.00	NA
0113B*	3.00	6.80	25.00	55.80	56.70	4.00	11.40	35.00	64.30	56.10	NA
0113C*	10.00	100.00	100.00	100.00	100.00	10.00	100.00	100.00	100.00	100.00	NDBM&F
0113D*	NR	NR	3.50	8.00	15.00	NR	NR	3.50	8.00	15.00	NO SERVICE RETIREMENT BEFORE AGE 62; NDBM&F
0121A	15.00	20.00	60.00	60.00	30.00	4.00	30.80	50.00	59.00	39.00	NA
0125A	12.00	16.00	16.00	40.00	40.00	12.00	16.00	16.00	40.00	40.00	NDBM&F
0125B*	25.00	50.00	70.00	100.00	100.00	25.00	50.00	70.00	100.00	100.00	NDBM&F
0125C*	14.00	18.00	18.00	50.00	50.00	14.00	18.00	18.00	50.00	50.00	NDBM&F
0125D*	12.00	16.00	16.00	40.00	40.00	12.00	16.00	16.00	40.00	40.00	NDBM&F
0125E*	0.00	15.00	10.00	40.00	20.00	0.00	15.00	10.00	40.00	20.00	NDBM&F
0134A	0.00	0.00	100.00	100.00	100.00	0.00	0.00	100.00	100.00	100.00	100% AT AGE 60

TABLE E-6. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR-M55	SR-M60	SR-M62	SR-M65	SR-M67	SR-F55	SR-F60	SR-F62	SR-F65	SR-F67	SR-NOTE
0134B*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100% AT AGE 58
0134C*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100% AT AGE 53 WITH 25 YEARS OF SERVICE
0137A	19.75	12.50	30.00	40.00	28.50	15.00	13.50	26.50	36.00	30.50	NA
0138A	3.50	5.00	20.00	45.00	30.00	3.50	8.00	25.00	55.00	25.00	NA
0138C	3.50	5.00	20.00	45.00	30.00	3.50	8.00	25.00	55.00	25.00	NA
0138D	3.50	5.00	20.00	45.00	30.00	3.50	8.00	25.00	55.00	25.00	NA
0139A	5.00	5.00	7.50	30.00	30.00	5.00	5.00	7.50	30.00	30.00	NON-UNIFORMED MEMBERS
0144A	11.00	14.00	34.00	NR	NR	8.00	11.00	30.00	NR	NR	96% RETIRE BY AGE 65
0144B*	10.00	10.00	20.00	100.00	100.00	10.00	10.00	20.00	100.00	100.00	NDBM&F
0144C*	16.00	16.00	43.00	NR	NR	8.00	21.00	37.00	NR	NR	99% RETIRE BY AGE 65
0144D*	15.00	15.00	49.00	NR	NR	10.00	16.00	33.00	NR	NR	98% RETIRE BY AGE 65
0144E*	22.00	30.00	40.00	100.00	100.00	22.00	30.00	40.00	100.00	100.00	NDBM&F
0144F*	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	PLAN B JUDGES RETIRE AT AGE 63
0145A	12.00	15.00	15.00	25.00	25.00	15.00	17.00	17.00	25.00	25.00	NA
0145B	20.00	20.00	20.00	30.00	25.00	20.00	20.00	20.00	30.00	25.00	NDBM&F
0145C*	15.00	15.00	16.00	25.00	25.00	15.00	17.00	17.00	25.00	25.00	NA
0147A	5.00	5.00	15.00	75.00	40.00	5.00	5.00	15.00	55.00	40.00	NA
0147B	10.00	60.00	65.00	60.00	60.00	10.00	60.00	65.00	60.00	60.00	NDBM&F
0147C	40.00	60.00	64.00	60.00	60.00	40.00	60.00	64.00	60.00	60.00	NDBM&F
0147D*	5.00	5.00	15.00	55.00	25.00	6.00	10.00	20.00	55.00	40.00	NA
0148A	15.00	15.00	30.00	45.00	30.00	15.00	15.00	30.00	45.00	30.00	+10% WHEN 1ST ELIGIBLE
0151A	10.00	15.00	25.00	50.00	100.00	10.00	15.00	25.00	50.00	100.00	NA
0154A	4.00	8.00	25.00	50.00	35.00	6.00	8.00	25.00	40.00	35.00	NA
0154B	5% AT AGES 50-54; 40% AT AGE 55 OR RULE OF 80; 100% BY AGE 59										
0161A	10.00	15.00	25.00	50.00	50.00	10.00	15.00	25.00	50.00	50.00	NDBM&F
0165A	10.00	22.00	50.00	40.00	30.00	12.00	20.00	40.00	45.00	30.00	NA
0165B	15.00	30.00	50.00	50.00	30.00	7.00	25.00	45.00	50.00	35.00	NA
0165C	20.00	30.00	40.00	100.00	100.00	20.00	30.00	40.00	100.00	100.00	NA
0165D	18.00	27.30	33.30	100.00	100.00	18.00	27.30	33.30	100.00	100.00	NA
0165E	NR	5.00	10.00	50.00	50.00	NR	5.00	10.00	50.00	50.00	NA
0168A	22.00	28.30	29.10	42.50	NR	15.00	27.70	23.70	33.20	NR	NA
0168B*	8.70	8.20	NR	62.00	NR	8.70	8.20	NR	62.00	NR	NDBM&F
0168B*	22.00	100.00	100.00	100.00	100.00	15.00	100.00	100.00	100.00	100.00	NA
0169A	11.00	13.00	40.00	40.00	40.00	11.00	13.00	40.00	40.00	40.00	NDBM&F
0169B*	EARLIER OF AGE 65 W/ 10 YEARS OF SERVICE OR FIRST AGE AT WHICH RULE OF 80 OR 90 IS APPLICABLE										
0170A	4.00	15.00	40.00	100.00	100.00	4.00	15.00	40.00	100.00	100.00	+5% WHEN 1ST ELIGIBLE FOR UNREDUCED BENEFITS
0174A	30.00	20.00	40.00	30.00	30.00	40.00	33.00	33.00	26.00	33.00	NA
0174B	2.00	4.00	60.00	64.00	50.00	5.00	10.00	90.00	64.00	40.00	NA
0174C	25.00	20.00	40.00	60.00	30.00	20.00	20.00	35.00	50.00	30.00	LESS THAN 30 YEARS OF SERVICE
0174D	2.00	4.00	45.00	67.00	50.00	5.00	10.00	60.00	70.00	40.00	NA
0174E	15.00	20.00	25.00	100.00	100.00	15.00	20.00	25.00	100.00	100.00	NDBM&F

TABLE E-6. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR-M55	SR-M60	SR-M62	SR-M65	SR-M67	SR-F55	SR-F60	SR-F62	SR-F65	SR-F67	SR-NOTE
0174F	86.00	35.00	35.00	100.00	100.00	86.00	35.00	35.00	100.00	100.00	NDBM&F
0174G	18.00	100.00	100.00	100.00	100.00	18.00	100.00	100.00	100.00	100.00	NA
0174H	NR	1.00	14.00	30.00	18.00	NR	1.00	14.00	30.00	18.00	NA
0175A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1980-85 EXPERIENCE STUDY
0175B*	BASED ON YEARS OF SERVICE AND DIFFERS FOR POLICE AND FIRE										
0175C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	100% AT NORMAL RETIREMENT AGE
0175D*	LATER OF: AGE 65, 8 YEARS SERVICE, OR ATTAINED AGE + 1 YEAR										
0175E*	10.00	10.00	50.00	100.00	100.00	10.00	10.00	50.00	100.00	100.00	NDBM&F
0175F*	LATER OF: AGE 62 OR 10 YEARS OF SERVICE										
0178A	5.00	8.00	20.00	50.00	100.00	5.00	8.00	20.00	50.00	100.00	NDBM&F; DOES NOT INCLUDE PUBLIC SAFETY
0181A	10.00	10.00	30.00	60.00	40.00	10.00	10.00	30.00	60.00	40.00	TEACHERS; NDBM&F
0182A	RETIREMENT AGE DEPENDS ON AGE AT HIRE: <= AGE 22: 48; AGE 23-27: 50; >= AGE 28: 55										
0183A	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	NDBM&F
0185A	15.00	15.00	15.00	70.00	40.00	15.00	15.00	15.00	70.00	40.00	DOES NOT INCLUDE CONSERVATION OR CORRECTIONS
0186A	15.00	10.00	40.00	50.00	40.00	15.00	10.00	40.00	50.00	40.00	MIDDLE RANGE FOR MEMBERS "WITH F55"
0191A	4.95	6.75	NR	36.00	NR	9.00	13.05	NR	36.00	NR	WITH 25-29 YEARS OF SERVICE
0193A	5.00	10.00	100.00	100.00	100.00	5.00	10.00	100.00	100.00	100.00	AFTER 1ST YEAR ELIGIBLE
0193B	BASED ON AGE AND SERVICE: TIER I: A55&ANY OR A55&20YS; TIER II: A52&25YS, A55&20YS, A60&15YS										
0193C	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	100% AT AGE 65
0195A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0196A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0197A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0198A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0199A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0200A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0201A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0202A	21.67	12.11	32.69	35.06	23.37	21.67	12.11	32.69	35.06	23.37	AGE 55 PLAN, TIER 1&2
0202B	17.60	23.77	59.48	62.29	40.00	17.60	23.77	59.48	62.29	40.00	25 YEAR PLAN; NDBM&F
0204A	13.00	20.00	39.00	55.00	NR	13.00	20.00	39.00	55.00	NR	WITH 25 YEARS OF SERVICE
0235A	NR	7.00	15.00	30.00	40.00	NR	7.50	12.50	25.00	25.00	NA
0235B	RATES VARY BY ENTRY AGE: < AGE 25 = AGE 55; >= AGE 25 = EARLIER OF AGE 57 W/ 20 YS OR AGE 60										
0235C	5.00	NR	NR	20.00	NR	5.00	NR	NR	20.00	NR	NA
0278A	3.92	15.98	33.11	38.75	21.65	5.70	14.70	30.98	40.79	26.00	1ST TIER MALE AND FEMALE
0302A	0.00	15.00	40.00	60.00	NR	0.00	15.00	40.00	60.00	NR	DOES NOT INCLUDE HAZARDOUS DUTY EMPLOYEES
0303A	19.00	17.00	21.00	31.00	100.00	19.00	17.00	21.00	31.00	100.00	NA
0303B*	30.00	20.00	100.00	100.00	100.00	30.00	20.00	100.00	100.00	100.00	NA
0304A	16.00	13.00	13.00	47.00	100.00	16.00	13.00	13.00	47.00	100.00	NA
0349A	10.00	15.00	35.00	75.00	NR	10.00	15.00	35.00	75.00	NR	NDBM&F
0349B*	12.60	20.00	40.00	75.00	NR	12.60	20.00	40.00	75.00	NR	NDBM&F
0361A	15.00	20.00	NR	40.00	NR	15.00	20.00	NR	40.00	NR	NDBM&F
0361B	20.00	30.00	NR	30.00	NR	20.00	30.00	NR	30.00	NR	NDBM&F

TABLE E-6. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO SERVICE RETIREMENT—Continued

SYSPLAN	SR-M55	SR-M60	SR-M62	SR-M65	SR-M67	SR-F55	SR-F60	SR-F62	SR-F65	SR-F67	SR-NOTE
0361C	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	NDBM&F
0373A	10.00	20.00	20.00	100.00	100.00	10.00	20.00	20.00	100.00	100.00	NA
0373B*	15.00	15.00	100.00	100.00	100.00	15.00	15.00	100.00	100.00	100.00	NA
0373C*	10.00	20.00	20.00	100.00	100.00	10.00	20.00	20.00	100.00	100.00	NA
0373D*	15.00	15.00	15.00	100.00	100.00	15.00	15.00	15.00	100.00	100.00	NA
0373E*	10.00	10.00	10.00	100.00	100.00	10.00	10.00	10.00	100.00	100.00	NA
0374A	11.10	25.00	NR	35.10	NR	11.10	25.00	NR	35.10	NR	NDBM&F
0374B*	11.10	25.00	NR	35.10	NR	11.10	25.00	NR	35.10	NR	NDBM&F
0374C*	0.00	100.00	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	NDBM&F
0374D*	13.20	100.00	100.00	100.00	100.00	13.20	100.00	100.00	100.00	100.00	NDBM&F
0374E*	0.00	5.70	10.40	NR	NR	0.00	5.70	10.40	NR	NR	NDBM&F
0375A	12.50	7.84	15.11	35.68	21.59	12.50	7.84	15.11	35.68	21.59	NDBM&F
0375B*	12.50	7.84	15.11	35.68	21.59	12.50	7.84	15.11	35.68	21.59	NDBM&F
0375C*	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	NDBM&F
0375D*	15.54	23.95	19.50	100.00	100.00	15.54	23.95	19.50	100.00	100.00	NDBM&F
0376A	5.00	15.00	45.00	45.00	25.00	5.00	20.00	35.00	45.00	25.00	BASED ON EXPERIENCE STUDY
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0376A	LATER OF: AGE 67 W/ 18 YEARS SERVICE OR AGE 65 W/ 8 YEARS SERVICE										
0376A	50% AT LATER OF AGE 50 OR ATTAINED AGE OR 20 YEARS SERVICE, REMAINDER AT AGE 60										
COUNT	142	145	119	138	107	142	145	120	137	107	NA
HIGH	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	NA
LOW	0.00	0.00	0.00	8.00	10.00	0.00	0.00	0.00	8.00	10.00	NA
AVG.	13.29	20.50	35.90	60.15	56.77	13.56	21.31	35.97	59.21	56.72	NA
ST. DEV.	15.14	22.06	27.39	26.70	33.63	15.11	21.86	27.35	27.03	33.56	NA

TABLE E-7. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO RETIRED MEMBER MORTALITY

SYSPLAN	RM-M50	RM-M60	RM-M70	RM-M80	RM-F50	RM-F60	RM-F70	RM-F80	RM-NOTE
0001A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0001B	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0002A	0.35	0.84	2.48	6.71	0.15	0.38	1.09	3.85	1983 GAM (-1)
0003A	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1) (DATA FROM GAM)
0003A1	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1) (DATA FROM GAM)
0003B	0.65	1.59	4.38	10.37	0.25	0.69	2.19	6.79	1971 GAM (+2) (DATA FROM GAM)
0003C*	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1) (DATA FROM GAM)
0004A	NR	1.55	3.76	8.85	NR	0.83	2.05	4.85	1984 UP (-1M, -8F)
0005A	0.50	1.34	3.72	9.05	0.19	0.51	1.55	4.44	SOURCE NOT REPORTED
0005B	NR	NR	NR	NR	NR	NR	NR	NR	1979 BUCK (+1M, -1F)
0005C	0.30	0.80	2.60	5.90	0.10	0.30	1.30	3.20	SOURCE NOT REPORTED
0006A	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1) (DATA FROM GAM)
0006B*	SHOWN AS FUTURE LIFE EXPECTANCY								1951 GAM (W/OUT PROJECTION)
0006C*	SHOWN AS FUTURE LIFE EXPECTANCY								1951 GAM (W/OUT PROJECTION)
0006D*	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1) (DATA FROM GAM)
0007A	NR	NR	NR	NR	NR	NR	NR	NR	1986 PROJECTED EXPERIENCE TABLE
0010A	0.43	1.02	3.06	NR	0.20	0.52	1.57	NR	1983 GAM (ADJUSTED) (+1F)
0010B	0.43	1.02	3.06	NR	0.20	0.52	1.57	NR	1983 GAM (ADJUSTED) (+1F)
0010C	0.43	1.02	3.06	NR	0.20	0.52	1.57	NR	1983 GAM (ADJUSTED) (+1F)
0013A	NR	NR	NR	NR	NR	NR	NR	NR	1984 BUCK
0015A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (-5F)
0019A	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984)
0034A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0043A	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0043B	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0043C	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0043D	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0043E	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0043F	0.53	1.31	3.61	8.74	0.11	0.25	0.69	2.19	1971 GAM (-0M, -8F) (DATA FROM GAM)
0048A	0.40	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0048B	0.40	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0048C	0.40	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0048D	0.40	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0048E	0.40	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0055A	0.27	0.74	1.95	NR	0.14	0.34	0.96	NR	1983 GAM (W/OUT MARGIN) (-4M, -3F)
0057A	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)
0057B	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)
0057C	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)
0057D	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)
0063A	0.31	0.83	2.05	NR	0.31	0.83	2.05	NR	1984 UP (-6)
0064A	0.47	1.19	3.24	7.97	0.20	0.49	1.45	5.06	1971 GAM (-1)

TABLE E-7. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO RETIRED MEMBER MORTALITY—Continued

SYSPLAN	RM-M50	RM-M60	RM-M70	RM-M80	RM-F50	RM-F60	RM-F70	RM-F80	RM-NOTE
0066A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0066B*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0066C*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM
0067A	0.28	0.80	2.75	7.20	0.12	0.44	1.56	4.33	1989 BUCK
0068A	0.56	1.42	2.75	7.41	0.37	0.94	2.34	5.76	RM-F FOR FEMALE BENEFICIARIES ONLY
0069A	NR	1.34	3.88	9.12	NR	0.69	1.84	5.27	1974 BUCK
0071A	0.43	1.02	3.06	NR	0.20	0.52	1.57	NR	1983 GAM (+1F)
0072A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984)
0076A	NR	NR	NR	NR	NR	NR	NR	NR	1979 BUCK (+1F)
0076B*	NR	NR	NR	NR	NR	NR	NR	NR	1979 BUCK (-1M, -2F)
0076C*	NR	NR	NR	NR	NR	NR	NR	NR	1979 BUCK
0079A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984) (-1M, -1F)
0083A	0.35	0.84	2.48	6.71	0.15	0.38	1.09	3.85	1983 GAM (-1M, -1F)
0085A	0.31	0.77	2.22	6.07	0.14	0.34	0.97	3.45	SOURCE NOT REPORTED
0086A	0.39	0.92	2.75	7.41	0.39	0.92	2.75	7.41	SOURCE NOT REPORTED
0087A	0.28	0.80	2.75	7.20	0.12	0.44	1.56	4.33	1989 BUCK
0087B*	0.28	0.80	2.75	7.20	0.12	0.44	1.56	4.33	1989 BUCK
0087C*	0.24	0.54	1.77	4.97	0.10	0.29	0.99	2.93	1989 BUCK
0087D*	0.24	0.54	1.77	4.97	0.10	0.29	0.99	2.93	1989 BUCK
0096A	0.31	0.77	2.22	6.07	0.15	0.38	1.09	4.29	1983 GAM (-2M, -1F)
0098A	0.38	0.95	2.73	7.30	0.14	0.36	1.10	4.13	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098B	0.38	0.95	2.73	7.30	0.14	0.36	1.10	4.13	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098C	0.38	0.95	2.73	7.30	0.14	0.36	1.10	4.13	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098D	0.38	0.95	2.73	7.30	0.14	0.36	1.10	4.13	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0098E*	0.38	0.95	2.73	7.30	0.14	0.36	1.10	4.13	WISCONSIN EXPERIENCE STUDY STANDARD MORTALITY TABLE
0104A	0.50	1.30	3.50	8.60	0.20	0.50	1.60	5.40	SOURCE NOT REPORTED
0104A	0.40	0.90	2.80	7.40	0.20	0.40	1.20	4.30	SOURCE NOT REPORTED
0106A	0.40	1.10	3.10	7.00	0.20	0.40	1.40	4.40	SOURCE NOT REPORTED
0107A	0.28	0.71	1.98	5.48	0.15	0.38	1.09	3.85	1983 GAM (-3M, -1F)
0112A	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984)
0113A	0.65	1.41	3.09	7.77	0.20	0.60	1.27	4.10	1971 IAM (+2M, -2F)
0113B*	0.53	1.23	2.60	6.46	0.20	0.60	1.27	4.10	1971 IAM (-0M, -1F)
0113C*	0.65	1.56	3.93	9.97	0.65	1.56	3.93	9.97	1951 GAM FOR MEN; NDBM&F
0113D*	0.53	1.31	3.61	8.74	0.22	0.55	1.65	5.61	1971 GAM
0121A	0.53	1.31	3.61	8.74	0.22	0.55	1.65	5.61	1971 GAM (DATA FROM GAM)
0125A	SHOWN AS FUTURE LIFE EXPECTANCY								COLORADO PROJECTED EXPERIENCE TABLE 90
0125B*	SHOWN AS FUTURE LIFE EXPECTANCY								COLORADO PROJECTED EXPERIENCE TABLE 90
0125C*	SHOWN AS FUTURE LIFE EXPECTANCY								COLORADO PROJECTED EXPERIENCE TABLE 90
0125D*	SHOWN AS FUTURE LIFE EXPECTANCY								COLORADO PROJECTED EXPERIENCE TABLE 90
0125E*	SHOWN AS FUTURE LIFE EXPECTANCY								COLORADO PROJECTED EXPERIENCE TABLE 90
0134A	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)

TABLE E-7. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO RETIRED MEMBER MORTALITY—Continued

SYSPLAN	RM-M50	RM-M60	RM-M70	RM-M80	RM-F50	RM-F60	RM-F70	RM-F80	RM-NOTE	
0134B*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)	
0134C*	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN) (FROM SEGAL REPORT)	
0137A	0.70	1.06	2.68	6.81	0.31	0.56	1.49	4.40	SOURCE NOT REPORTED	
0138A	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 2000) (-5F)
0138C	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 2000) (-5F)
0138D	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 2000) (-5F)
0139A	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (-0M, -6F)
0144A	0.00	1.55	3.77	8.85	0.00	0.72	1.57	5.25	MALES: 1984 UP (-1); FEMALES: (1971 IAM (-1) (DATA FOR AGES +2YRS)	
0144B*	0.62	1.55	3.77	8.85	0.62	1.55	3.77	8.85	1984 UP (-1) (DATA FOR AGES +2 YEARS)	
0144C*	0.00	1.41	3.09	7.77	0.00	0.63	1.33	4.37	1971 IAM (-0M, -2.5F) (DATA FOR AGES +2 YEARS)	
0144D*	0.00	1.55	3.77	8.85	0.00	0.72	1.57	5.25	MALES: 1984 UP (-1); FEMALES: (1971 IAM (-1) (DATA FOR AGES +2YRS)	
0144E*	0.62	1.55	3.77	8.85	0.62	1.55	3.77	8.85	1984 UP (-1) (DATA FOR AGES +2 YEARS)	
0144F*	0.00	1.70	4.09	9.62	0.00	1.70	4.09	9.62	1984 UP (DATA FOR AGES +2 YEARS)	
0145A	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 1984)
0145B	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 1984)
0145C*	SHOWN AS FUTURE LIFE EXPECTANCY									1971 GAM (PROJECTED TO 1984)
0147A	0.48	1.15	2.42	6.06	0.20	0.60	1.28	4.18	1971 IAM (-1M, -1F)	
0147B	0.65	1.42	3.14	8.08	0.26	0.78	1.77	6.12	1971 IAM (+2M, +2F)	
0147C	0.65	1.42	3.14	8.08	0.26	0.78	1.77	6.12	1971 IAM (+2M, +2F)	
0147D*	0.42	1.07	2.22	5.50	0.18	0.54	1.16	3.69	1971 IAM (-2M, -2F)	
0148A	0.53	1.23	2.60	6.46	0.22	0.66	1.40	4.64	1971 IAM	
0151A	0.29	0.71	1.99	5.63	0.29	0.71	1.99	5.63	1977 IPERS UNISEX MORTALITY TABLE	
0154A	0.39	0.92	2.75	7.41	0.39	0.92	2.75	7.41	1983 GAM (W/MARGINS); NDBM&F	
0154B	0.39	0.92	2.75	7.41	0.39	0.92	2.75	7.41	1983 GAM (W/MARGINS); NDBM&F	
0161A	0.31	0.77	2.22	6.07	0.09	0.21	0.58	1.85	1983 GAM (-2M, -7F) (DATA FROM GAM)	
0165A	0.35	0.84	2.48	6.71	0.16	0.42	1.24	4.29	1983 GAM (-1M, -0F) (DATA FROM GAM)	
0165B	NR	NR	NR	NR	NR	NR	NR	NR	MALES: 1983 IAM (-1); FEMALES: 1983 GAM (-0)	
0165C	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)	
0165D	0.35	0.84	2.48	6.71	0.16	0.42	1.24	4.29	1983 GAM (-1M, -0F) (DATA FROM GAM)	
0165E	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)	
0168A	0.38	1.00	2.63	6.59	0.17	0.39	1.16	4.08	1971 GAM (-3M, -3F)	
0168B*	0.38	1.00	2.63	6.59	0.17	0.39	1.16	4.08	1971 GAM (-3M, -3F)	
0168B*	0.38	1.00	2.63	6.59	0.17	0.39	1.16	4.08	1971 GAM (-3M, -3F)	
0169A	0.48	1.11	3.34	8.93	0.19	0.52	1.62	5.27	1983 GAM (DATA ARE FOR 5-YEAR RANGES)	
0169B*	0.48	1.11	3.34	8.93	0.19	0.52	1.62	5.27	1983 GAM (DATA ARE FOR 5-YEAR RANGES)	
0170A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)	
0174A	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)	
0174B	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)	
0174C	0.28	0.71	1.98	5.48	0.15	0.38	1.09	3.86	1983 GAM (-3M, -1F)	
0174D	0.28	0.71	1.98	5.48	0.15	0.38	1.09	3.86	1983 GAM (-3M, -1F)	
0174E	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)	

TABLE E-7. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO RETIRED MEMBER MORTALITY—Continued

SYSPLAN	RM-M50	RM-M60	RM-M70	RM-M80	RM-F50	RM-F60	RM-F70	RM-F80	RM-NOTE
0174F	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)
0174G	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)
0174H	0.43	1.01	3.08	8.53	0.18	0.47	1.42	4.88	1983 GAM (+1M, +1F)
0175A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (+1M, -4F)
0175B*	NR	NR	NR	NR	NR	NR	NR	NR	1969-71 U.S. LIFE TABLES
0175C*	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (+1M, -4F)
0175D*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0175E*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0175F*	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0178A	0.28	0.80	2.75	7.20	0.12	0.44	1.56	4.33	1989 BUCK (DATA FOR AGES 70 & 80 FROM BUCK TABLE)
0181A	0.53	1.31	3.61	8.74	0.14	0.33	0.96	3.24	1971 GAM (-0M, -5F) (DATA FROM GAM)
0182A	0.53	1.31	3.61	8.74	0.12	0.27	0.77	2.51	1971 GAM (-0M, -7F) (DATA FROM GAM)
0183A	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 2010) (-0M, -6F)
0185A	0.53	1.31	3.61	8.74	0.14	0.33	0.96	3.24	1971 GAM (-0M, -5F) (DATA FROM GAM)
0186A	0.53	1.31	3.61	8.74	0.14	0.33	0.96	3.24	1971 GAM (-0M, -5F) (DATA FROM GAM)
0191A	0.39	0.92	2.75	7.44	0.18	0.47	1.41	4.77	1983 GAM (-0M, +1F) (DATA FROM GAM)
0193A	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN)
0193B	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN)
0193C	NR	1.02	3.06	8.23	NR	0.47	1.38	4.77	1983 GAM (W/OUT MARGIN)
0195A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0196A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0197A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0198A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0199A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0200A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0201A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0202A	0.76	1.20	2.43	5.39	0.40	0.74	1.46	3.88	FOR MALE AND FEMALE CLERKS
0202B	0.35	1.02	2.48	6.06	0.35	1.02	2.48	6.06	NDBM&F
0204A	0.35	0.84	1.93	6.71	0.16	0.42	1.24	4.29	1983 GAM (-1M, -0F)
0235A	NR	NR	NR	NR	NR	NR	NR	NR	TRAVELERS ANNUITY TABLE FOR PURCHASE RATES
0235B	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0235C	0.38	1.00	2.63	6.59	0.17	0.40	1.16	4.08	1971 GAM (-3) (DATA FROM GAM)
0278A	0.52	1.02	2.48	6.85	0.21	0.55	1.36	3.90	1988-92 EXPERIENCE STUDY
0302A	0.39	0.92	2.75	7.41	0.16	0.42	1.24	4.29	1983 GAM (DATA FROM GAM)
0303A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (+1M, -4F)
0303B*	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (+1M, -4F)
0304A	NR	NR	NR	NR	NR	NR	NR	NR	1984 UP (+1M, -4F)
0349A	0.53	1.31	3.61	NR	0.22	0.55	1.65	NR	SOURCE NOT REPORTED
0349B*	0.42	1.09	2.92	NR	0.18	0.44	1.29	NR	SOURCE NOT REPORTED
0361A	0.43	1.01	3.04	8.15	0.19	0.52	1.62	5.27	SOURCE NOT REPORTED
0361B	0.51	1.30	3.21	7.47	0.31	0.83	2.05	4.85	SOURCE NOT REPORTED

TABLE E-7. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO RETIRED MEMBER MORTALITY—Continued

SYSPLAN	RM-M50	RM-M60	RM-M70	RM-M80	RM-F50	RM-F60	RM-F70	RM-F80	RM-NOTE
0361C	0.48	1.11	3.34	8.93	0.19	0.52	1.62	5.27	SOURCE NOT REPORTED
0373A	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0373B*	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0373C*	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0373D*	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0373E*	SHOWN AS FUTURE LIFE EXPECTANCY								1971 GAM (PROJECTED TO 1984) (-0M, -6F)
0374A	0.38	0.97	2.86	7.20	0.27	0.63	1.65	4.75	SOURCE NOT REPORTED
0374B*	0.49	1.34	3.88	9.12	0.34	0.88	2.58	6.63	SOURCE NOT REPORTED
0374C*	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0374D*	1.42	2.72	5.91	13.46	1.42	2.72	5.91	13.46	NDBM&F
0374E*	0.61	1.53	3.81	9.29	0.34	0.85	2.13	5.27	SOURCE NOT REPORTED
0375A	0.47	1.19	3.24	7.97	0.13	0.30	0.86	2.86	1971 GAM (-1M, -6F) (DATA FROM GAM)
0375B*	0.47	1.19	3.24	7.97	0.13	0.30	0.86	2.86	1971 GAM (-1M, -6F) (DATA FROM GAM)
0375C*	0.47	1.19	3.24	7.97	0.13	0.30	0.86	2.86	1971 GAM (-1M, -6F) (DATA FROM GAM)
0375D*	0.47	1.19	3.24	7.97	0.13	0.30	0.86	2.86	1971 GAM (-1M, -6F) (DATA FROM GAM)
0376A	0.53	1.31	3.61	8.74	0.18	0.44	1.29	4.55	1971 GAM (-0M, -2F) (DATA FROM GAM)
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0376A	0.39	0.92	2.75	7.41	0.10	0.23	0.64	2.11	1983 GAM (-0M, -6F) (DATA FROM GAM)
0376A	0.53	1.31	3.61	8.74	0.13	0.30	0.86	2.86	1971 GAM (-0M, -6F) (DATA FROM GAM)
COUNT	130	141	141	133	130	141	141	133	NA
HIGH	1.42	2.72	5.91	13.46	1.42	2.72	5.91	13.46	NA
LOW	0.00	0.54	1.77	4.97	0.00	0.21	0.58	1.85	NA
AVG.	0.43	1.08	2.99	7.70	0.20	0.53	1.46	4.59	NA
ST. DEV.	0.15	0.27	0.56	1.15	0.15	0.31	0.69	1.54	NA

TABLE E-8. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABLED MEMBER MORTALITY

SYSPLAN	DM-M40	DM-M50	DM-M60	DM-M70	DM-M80	DM-F40	DM-F50	DM-F60	DM-F70	DM-F80	DM-NOTE
0001A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0001B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0002A	1.76	2.42	3.29	4.36	8.84	1.76	2.42	3.29	4.36	8.84	1981 DISABILITY TABLE
0003A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0003A1	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0003B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0003C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0004A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1983 RRBDAM
0005A	5.09	5.18	6.23	8.82	15.03	2.48	2.89	3.91	6.45	12.53	SOURCE NOT REPORTED
0005B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0005C	3.30	3.80	4.90	7.60	14.20	2.50	3.80	4.90	7.60	14.20	SOURCE NOT REPORTED
0006A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0006B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0006C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0006D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0007A	4.00	4.40	5.90	9.40	17.40	3.60	3.80	4.50	5.90	9.10	SOURCE NOT REPORTED
0010A	0.19	0.42	0.81	NR	NR	0.19	0.42	0.81	NR	NR	1981-1986 EXPERIENCE STUDY; NDBM&F
0010B	0.64	3.02	1.30	NR	NR	0.64	3.02	1.30	NR	NR	1981-1986 EXPERIENCE STUDY; NDBM&F
0010C	0.20	0.80	0.63	0.50	NR	0.20	0.80	0.63	0.50	NR	1981-1986 EXPERIENCE STUDY; NDBM&F
0013A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0015A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0019A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0034A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT MENTIONED
0043A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	COMBINED ANNUITY MORTALITY TABLE
0043B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	COMBINED ANNUITY MORTALITY TABLE
0043C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	COMBINED ANNUITY MORTALITY TABLE
0043D	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	COMBINED ANNUITY MORTALITY TABLE
0043E	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT APPLICABLE
0043F	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT APPLICABLE
0048A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0048B	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0048C	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0048D	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0048E	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0055A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED MORTALITY TABLES Va AND VIa
0057A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0057B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0057C	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0057D	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE MORTALITY TABLES
0063A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	PBGC (-3M) (NOT LESS AGE 65 RATE AFTER SET BACK)
0064A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0066A	3.75	3.85	4.53	6.35	11.03	2.43	2.49	2.93	4.11	7.13	1965 RRBDAM (MALES: 83%, FEMALES 53%)

TABLE E-8. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABLED MEMBER MORTALITY—Continued

SYSPLAN	DM-M40	DM-M50	DM-M60	DM-M70	DM-M80	DM-F40	DM-F50	DM-F60	DM-F70	DM-F80	DM-NOTE
0066B*	3.75	3.85	4.53	6.35	11.03	2.43	2.49	2.93	4.11	7.13	1965 RRBDAM (MALES: 83%, FEMALES 53%)
0066C*	3.75	3.85	4.53	6.35	11.03	2.43	2.49	2.93	4.11	7.13	1965 RRBDAM (MALES: 83%, FEMALES 53%)
0067A	3.27	3.64	4.57	NR	NR	1.01	1.28	2.12	NR	NR	SPECIAL MORTALITY TABLE
0068A	0.38	0.99	2.48	5.78	13.22	0.38	0.99	2.48	5.78	13.22	SOURCE NOT REPORTED; NDBM&F
0069A	3.32	3.76	4.88	NR	NR	2.05	2.13	3.01	NR	NR	SPECIAL MORTALITY TABLE
0071A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0072A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0076A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0076B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0076C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0079A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0083A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC TABLES Va AND VIa
0085A	2.41	2.62	3.15	4.46	7.67	2.41	2.62	3.15	4.46	7.67	SOURCE NOT REPORTED; NDBM&F
0086A	4.98	5.64	7.32	11.45	21.26	4.98	5.64	7.32	11.45	21.26	SOURCE NOT REPORTED; NDBM&F
0087A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0087B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0087C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0087D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLE
0096A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1990 EXPERIENCE STUDY
0098A	0.47	1.14	3.38	8.83	18.99	0.16	0.45	1.49	5.14	15.15	WISCONSIN EXPERIENCE STUDY (SET AHEAD 12 YEARS)
0098B	0.47	1.14	3.38	8.83	18.99	0.16	0.45	1.49	5.14	15.15	WISCONSIN EXPERIENCE STUDY (SET AHEAD 12 YEARS)
0098C	0.47	1.14	3.38	8.83	18.99	0.16	0.45	1.49	5.14	15.15	WISCONSIN EXPERIENCE STUDY (SET AHEAD 12 YEARS)
0098D	0.47	1.14	3.38	8.83	18.99	0.16	0.45	1.49	5.14	15.15	WISCONSIN EXPERIENCE STUDY (SET AHEAD 12 YEARS)
0098E*	0.47	1.14	3.38	8.83	18.99	0.16	0.45	1.49	5.14	15.15	WISCONSIN EXPERIENCE STUDY (SET AHEAD 12 YEARS)
0104A	0.30	3.80	4.90	7.60	14.20	2.50	2.90	3.90	6.50	12.50	SOURCE NOT REPORTED
0104A	0.30	3.80	4.90	7.60	14.20	2.50	2.90	3.90	6.50	12.50	SOURCE NOT REPORTED
0106A	5.10	5.10	5.10	5.10	7.80	4.50	4.50	4.50	4.50	5.50	SOURCE NOT REPORTED
0107A	3.00	3.00	3.00	3.00	7.41	2.00	2.00	2.00	2.40	4.29	1983 GAM-M (MIN 3%); 1983 GAM-F (MIN 2%)
0112A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0113A	1.00	1.58	2.92	5.49	10.44	0.86	1.09	1.57	2.77	6.75	SPECIAL MORTALITY TABLE
0113B*	1.00	1.58	2.92	5.49	10.44	0.86	1.09	1.57	2.77	6.75	SPECIAL MORTALITY TABLE
0113C*	0.36	1.04	2.44	6.24	14.69	0.36	1.04	2.44	6.24	14.69	1951 GAM (+5M); NDBM&F
0113D*	0.29	0.85	2.13	5.53	13.01	0.14	0.33	0.96	3.24	8.92	1971 GAM (+5)
0121A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	FEDERAL CIVIL SERVICE DISABILITY MORT. TABLE
0125A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0125B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0125C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0125D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0125E*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0134A	NR	1.02	3.06	8.23	18.48	NR	0.47	1.38	4.77	12.41	1983 GAM (W/OUT MARGIN) (+10)
0134B*	NR	0.92	2.75	7.41	16.63	NR	0.42	1.24	4.29	11.18	1983 GAM (WITH MARGIN) (+10)
0134C*	NR	1.02	3.06	8.23	18.48	NR	0.47	1.38	4.77	12.41	1983 GAM (W/OUT MARGIN) (+10)

TABLE E-8. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABLED MEMBER MORTALITY—Continued

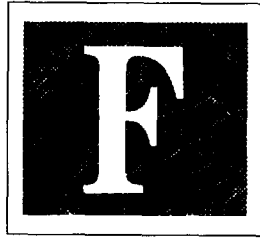
SYSPLAN	DM-M40	DM-M50	DM-M60	DM-M70	DM-M80	DM-F40	DM-F50	DM-F60	DM-F70	DM-F80	DM-NOTE
0137A	5.26	6.64	6.73	7.17	9.11	3.64	5.45	2.48	3.20	6.61	SOURCE NOT REPORTED
0138A	SHOWN AS EXPECTED YEARS OF LIFE REMAINING										SOURCE NOT REPORTED
0138C	SHOWN AS EXPECTED YEARS OF LIFE REMAINING										SOURCE NOT REPORTED
0138D	SHOWN AS EXPECTED YEARS OF LIFE REMAINING										SOURCE NOT REPORTED
0139A	0.29	0.85	2.13	5.53	13.01	0.09	0.20	0.49	1.45	5.06	1971 GAM (+5M, -1F) (DATA FROM GAM)
0144A	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0144B*	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0144C*	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0144D*	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0144E*	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0144F*	3.09	3.23	3.92	5.75	10.31	2.43	2.54	3.08	4.52	8.10	M: 70% 1965 RRB; F: 55% 1965 RRB (-5) (DATA = AGES +2YRS)
0145A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984) (+10)
0145B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984) (+10)
0145C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1971 GAM (PROJECTED TO 1984) (+10)
0147A	1.36	3.22	4.34	6.98	11.38	1.07	1.36	3.22	4.34	6.98	1983 RRB DAM (-0M, -10F)
0147B	1.36	3.22	4.34	6.98	11.38	1.07	1.36	3.22	4.34	6.98	1983 RRB DAM (-0M, -10F)
0147C	1.36	3.22	4.34	6.98	11.38	1.07	1.36	3.22	4.34	6.98	1983 RRB DAM (-0M, -10F)
0147D*	1.36	3.22	4.34	6.98	11.38	1.07	1.36	3.22	4.34	6.98	1983 RRB DAM (-0M, -10F)
0148A	2.50	2.50	3.40	5.50	10.80	2.20	2.10	2.90	4.90	9.70	SOURCE NOT REPORTED
0151A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0154A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0154B	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0161A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0165A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1981 DISABILITY TABLE DEVELOPED FROM EXPERIENCE
0165B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1981 DISABILITY TABLE DEVELOPED FROM EXPERIENCE
0165C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1981 DISABILITY TABLE DEVELOPED FROM EXPERIENCE
0165D	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1981 DISABILITY TABLE DEVELOPED FROM EXPERIENCE
0165E	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1981 DISABILITY TABLE DEVELOPED FROM EXPERIENCE
0168A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SOCIAL SECURITY - ACTUARIAL STUDY NO. 74
0168B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SOCIAL SECURITY - ACTUARIAL STUDY NO. 74
0168B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SOCIAL SECURITY - ACTUARIAL STUDY NO. 74
0169A	1.35	3.16	4.24	6.75	10.77	1.35	3.16	4.24	6.75	10.77	1983 RRB ULTIMATE MORTALITY TABLES
0169B*	1.35	3.16	4.24	6.75	10.77	1.35	3.16	4.24	6.75	10.77	1983 RRB ULTIMATE MORTALITY TABLES
0170A	0.39	0.92	2.75	7.41	16.63	0.16	0.42	1.24	4.29	11.18	1983 GAM (+10) (DATA FROM GAM)
0174A	4.50	4.50	4.50	4.50	8.53	3.00	3.00	3.00	3.00	4.88	>1983 GAM (+1M, +1F) OR MALES: 0.045 & FEMALES: 0.03
0174B	4.50	4.50	4.50	4.50	8.53	3.00	3.00	3.00	3.00	4.88	>1983 GAM (+1M, +1F) OR MALES: 0.045 & FEMALES: 0.03
0174C	4.50	4.50	4.50	4.50	5.48	3.00	3.00	3.00	3.00	3.86	>1983 GAM (+1M, +1F) OR MALES: 0.045 & FEMALES: 0.03
0174D	4.50	4.50	4.50	4.50	5.48	3.00	3.00	3.00	3.00	3.86	>1983 GAM (+1M, +1F) OR MALES: 0.045 & FEMALES: 0.03
0174E	0.40	0.43	1.01	3.08	8.53	0.40	0.40	0.47	1.42	4.88	>1983 GAM (+1M, +1F) AND 0.004 MINIMUM
0174F	0.40	0.43	1.01	3.08	8.53	0.40	0.40	0.47	1.42	4.88	>1983 GAM (+1M, +1F) AND 0.004 MINIMUM
0174G	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NO DISABILITY COVERAGE
0174H	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1977 RRB DAM W/ FEMALES REDUCED BY 25%

TABLE E-8. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABLED MEMBER MORTALITY—Continued

SYSPLAN	DM-M40	DM-M50	DM-M60	DM-M70	DM-M80	DM-F40	DM-F50	DM-F60	DM-F70	DM-F80	DM-NOTE
0175A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0175B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0175C*	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0175D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0175E*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0175F*	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0178A	1.36	3.22	4.34	6.98	11.38	1.36	3.22	4.34	6.98	11.38	1983 RRDAM (DATA FROM M&R TABLE)
0181A	MORTALITY TABLE SET FORWARD BY 1/2 DIFFERENCE BETWEEN AGE AT DISABILITY AND AGE 60										
0182A	MORTALITY TABLE SET FORWARD BY 1/2 DIFFERENCE BETWEEN AGE AT DISABILITY AND AGE 50										
0183A	HEALTHY MORTALITY TABLE SET FORWARD 11 YEARS										
0185A	MORTALITY TABLE SET FORWARD BY 1/2 DIFFERENCE BETWEEN AGE AT DISABILITY AND AGE 60										
0186A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0191A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	SPECIAL MORTALITY TABLES
0193A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0193B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0193C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0195A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0196A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0197A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0198A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0199A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0200A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0201A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0202A	1.73	3.33	3.01	6.54	8.24	1.80	2.10	2.35	3.42	5.50	FOR MALE AND FEMALE CLERKS
0202B	0.46	0.53	1.15	3.91	5.82	0.46	0.53	1.15	3.91	5.82	NDBM&F
0204A	11.76	6.95	6.22	6.75	NR	11.40	5.14	3.61	2.48	NR	BASED ON EXPERIENCE OF OTHER LARGE PERS
0235A	0.16	0.53	1.31	3.61	8.74	0.09	0.22	0.55	1.65	5.61	1971 GAM (DATA FROM GAM)
0235B	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0235C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0278A	2.55	3.01	3.55	4.97	10.85	1.55	1.77	2.03	2.97	6.14	ORDINARY DISABILITY; 1988-92 EXPERIENCE STUDY
0302A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0303A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0303B*	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0304A	2.82	3.83	6.03	7.39	11.28	2.09	2.57	3.31	4.11	7.46	PBGC DISABLED LIFE TABLES
0349A	0.11	0.42	1.24	NR	NR	0.11	0.42	1.24	NR	NR	SOURCE NOT REPORTED
0349B*	0.11	0.42	1.24	NR	NR	0.11	0.42	1.24	NR	NR	SOURCE NOT REPORTED
0361A	3.00	3.07	3.24	4.75	9.01	3.00	2.70	1.96	2.21	5.18	SOURCE NOT REPORTED
0361B	1.51	1.51	2.17	4.40	8.13	0.94	0.94	1.39	2.86	5.19	SOURCE NOT REPORTED
0361C	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0373A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0373B*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0373C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED

TABLE E-8. PERS ACTUARIAL VALUATIONS: ASSUMPTIONS RELATED TO DISABLED MEMBER MORTALITY—Continued

SYSPLAN	DM-M40	DM-M50	DM-M60	DM-M70	DM-M80	DM-F40	DM-F50	DM-F60	DM-F70	DM-F80	DM-NOTE
0373D*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0373E*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0374A	NR	3.76	4.88	7.63	14.17	NR	2.07	2.88	4.88	9.71	SOURCE NOT REPORTED
0374B*	NR	3.76	4.88	7.63	14.17	NR	2.89	3.91	6.45	12.53	SOURCE NOT REPORTED
0374C*	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0374D*	NR	3.48	4.35	6.75	12.51	NR	3.48	4.35	6.75	12.51	NDBM&F
0374E*	NR	3.76	4.88	7.63	14.17	NR	2.89	3.91	6.45	12.53	SOURCE NOT REPORTED
0375A	0.47	1.19	3.24	7.97	16.87	0.20	0.49	1.45	5.05	12.69	1971 GAM (+9M, +4F) (DATA FROM GAM)
0375B*	0.47	1.19	3.24	7.97	16.87	0.20	0.49	1.45	5.05	12.69	1971 GAM (+9M, +4F) (DATA FROM GAM)
0375C*	0.47	1.19	3.24	7.97	16.87	0.20	0.49	1.45	5.05	12.69	1971 GAM (+9M, +4F) (DATA FROM GAM)
0375D*	0.47	1.19	3.24	7.97	16.87	0.20	0.49	1.45	5.05	12.69	1971 GAM (+9M, +4F) (DATA FROM GAM)
0376A	0.53	1.31	3.61	8.74	NR	0.18	0.44	1.29	4.55	11.62	1971 GAM (+10M, +8F) (DATA FROM GAM)
0376A	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NOT REPORTED
0376A	0.14	0.39	0.92	2.75	7.41	0.05	0.10	0.23	0.64	2.11	1983 GAM (-0M, -6F) (DATA FROM GAM)
0376A	0.16	0.53	1.31	3.61	8.74	0.06	0.13	0.30	0.86	2.86	1971 GAM (-0M, -6F) (DATA FROM GAM)
COUNT	83	90	90	84	81	83	90	90	84	82	NA
HIGH	11.76	6.95	7.32	11.45	21.26	11.40	5.64	7.32	11.45	21.26	NA
LOW	0.11	0.39	0.63	0.50	5.48	0.05	0.10	0.23	0.50	2.11	NA
AVG.	2.16	2.80	3.99	6.52	12.05	1.68	1.97	2.60	4.32	8.88	NA
ST. DEV.	1.84	1.53	1.62	1.78	3.53	1.57	1.27	1.25	1.66	3.53	NA



Investment Data

TABLE F-1. PERS INVESTMENTS: TOTAL INVESTMENTS (IN \$ MILLIONS) AND RATES OF RETURN

SYSID	SYSTEM	DATE	TOT D M	TOT D C	RET93	RET92	RET91	RET90	RET89	BASE
0001	PUBLIC EMPLOYEES' RETIREMENT SYSTEMS OF NEVADA	6/30/93	\$5,255.4	\$4,724.1	11.4%	13.1%	8.9%	9.5%	13.7%	NR
0002	NEW MEXICO EDUCATIONAL RETIREMENT SYSTEM	6/30/93	\$3,125.0	\$2,744.6	9.2%	10.3%	9.7%	9.2%	9.5%	ROR
0003	SOUTH CAROLINA RETIREMENT SYSTEMS - GENERAL	6/30/93	\$10,978.0	\$9,391.1	9.8%	9.9%	10.2%	10.6%	10.4%	AVG YLD
0003	SOUTH CAROLINA RETIREMENT SYSTEMS - POLICE	6/30/93	\$1,153.8	\$1,000.5	9.6%	10.0%	10.0%	11.0%	10.6%	AVG YLD
0003	SOUTH CAROLINA RETIREMENT SYSTEMS - GENERAL ASSEMBLY	6/30/93	\$30.5	\$26.2	9.3%	10.0%	9.9%	10.3%	10.4%	AVG YLD
0003	SOUTH CAROLINA RETIREMENT SYSTEMS - JUDGES & SOLICITORS	6/30/93	\$53.6	\$46.5	9.7%	10.0%	9.9%	10.4%	11.0%	AVG YLD
0004	TEXAS MUNICIPAL RETIREMENT SYSTEM	12/31/93	\$4,339.5	\$3,676.1	8.7%	NR	NR	NR	NR	YTM
0005A	EMPLOYEES' RETIREMENT SYSTEM OF ALABAMA	9/30/93	\$4,047.2	\$3,687.2	7.1%	8.4%	9.4%	9.7%	9.7%	AVG YLD
0005B*	TEACHERS' RETIREMENT SYSTEM OF ALABAMA	9/30/93	\$8,945.8	\$8,151.1	7.2%	8.5%	9.6%	9.8%	9.8%	AVG YLD
0005C*	JUDICIAL RETIREMENT FUND OF ALABAMA	9/30/93	\$128.1	\$112.5	8.5%	9.9%	10.2%	10.2%	10.2%	AVG YLD
0006	PUBLIC EMPLOYEES' RETIREMENT SYSTEM OF MISSISSIPPI	6/30/93	\$7,789.9	\$6,739.5	12.2%	13.1%	11.9%	11.5%	12.2%	ROR
0007	STATE EMPLOYEES' RETIREMENT SYSTEM OF ILLINOIS	6/30/93	\$4,217.0	NA	12.1%	11.6%	7.0%	8.0%	14.3%	TOT RET
0010	TEACHERS' RETIREMENT SYSTEM OF LOUISIANA	6/30/93	\$5,449.3	\$5,016.0	13.9%	14.5%	9.5%	9.7%	16.0%	ROR
0013	PENNSYLVANIA PUBLIC SCHOOL EMPLOYEES' RET. SYSTEM	6/30/93	\$24,449.7	\$21,769.5	13.3%	14.2%	8.1%	9.2%	13.8%	TWRR
0015	CONNECTICUT TEACHERS' RETIREMENT FUND	6/30/93	\$5,836.5	\$4,760.7	12.1%	8.0%	3.9%	10.3%	14.3%	ROR
0019	OHIO STATE HIGHWAY PATROL RETIREMENT SYSTEM	12/31/93	\$352.2	\$286.3	13.0%	13.7%	14.8%	NR	11.4%	ROR@AV
0034	ARKANSAS LOCAL POLICE & FIRE RETIREMENT SYSTEM	12/31/92	\$84.0	\$80.2	NR	10.5%	23.2%	0.9%	18.2%	TWRR
0043	MINNESOTA STATE RETIREMENT SYSTEM	6/30/93	\$2,212.2	\$2,011.5	14.4%	14.5%	6.7%	10.8%	15.5%	TWRR
0048	KENTUCKY RETIREMENT SYSTEMS	6/30/93	\$4,884.2	\$4,106.2	12.3%	11.7%	8.3%	11.7%	13.1%	NR
0055	NORTH DAKOTA TEACHERS' FUND FOR RETIREMENT	6/30/93	\$638.2	NA	15.4%	NR	NR	NR	NR	ROR@MKT
0057	WYOMING RETIREMENT SYSTEM	12/31/93	\$2,279.0	\$2,064.0	11.0%	8.7%	19.9%	4.8%	17.7%	ROR@MKT
0063	ILLINOIS STATE TEACHERS' RETIREMENT SYSTEM	6/30/93	\$11,714.3	\$11,049.3	11.6%	10.8%	5.9%	10.4%	14.4%	TWRR
0064	EMPLOYEES' RETIREMENT SYSTEM OF GEORGIA	6/30/93	\$5,632.9	\$4,894.7	9.0%	9.9%	9.1%	10.6%	10.4%	ROR
0066	EMPLOYEES' RETIREMENT SYSTEM OF TEXAS	8/31/93	\$10,503.3	\$9,210.2	9.5%	9.2%	10.1%	9.3%	9.4%	ROA
0067	NEW JERSEY TEACHERS' PENSION AND ANNUITY FUND	6/30/93	\$15,488.5	\$11,495.0	12.5%	13.8%	9.3%	13.3%	14.5%	ROR
0068	NEW JERSEY POLICE AND FIREMEN'S RETIREMENT SYSTEM	6/30/93	\$7,193.7	\$5,424.6	12.5%	13.8%	9.3%	13.3%	14.5%	ROR
0069	NEW JERSEY PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	6/30/93	\$12,743.2	\$9,481.0	12.5%	13.8%	9.3%	13.3%	14.5%	ROR
0071	LOUISIANA STATE EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$3,203.5	\$2,905.0	8.1%	10.4%	10.0%	NR	NR	YLD@AV
0072	ARKANSAS TEACHERS' RETIREMENT SYSTEM	6/30/93	NR	\$2,907.7	15.4%	10.9%	10.5%	10.2%	14.6%	TWRR
0076	NORTH CAROLINA TEACHER & STATE EMPLOYEES' RET. SYSTEMS	6/30/93	NR	\$21,072.9	9.0%	NR	NR	NR	NR	NET RET
0079	OHIO SCHOOL EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$3,891.4	\$3,120.5	9.7%	NR	NR	NR	NR	TWRR
0083	OKLAHOMA TEACHERS' RETIREMENT SYSTEM	6/30/93	\$2,823.5	\$2,545.5	13.5%	13.7%	10.0%	10.1%	13.3%	ROR
0085	PUBLIC SCHOOL RETIREMENT SYSTEM OF MISSOURI	6/30/93	\$9,115.8	\$7,607.4	7.6%	8.2%	8.7%	9.2%	9.5%	YLD@COST
0086	NON-TEACHER SCHOOL EMPLOYEE RETIREMENT SYSTEM	6/30/93	\$657.5	\$538.5	16.8%	NR	NR	NR	NR	TOT RET
0087	NEW HAMPSHIRE PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	6/30/93	\$1,980.4	NR	14.4%	13.5%	9.0%	16.8%	17.0%	ROR
0096	TEACHER RETIREMENT SYSTEM OF TEXAS	8/31/93	\$36,889.7	\$27,979.2	13.4%	11.9%	23.2%	0.1%	19.7%	TWRR
0098	WISCONSIN RETIREMENT SYSTEMS	6/30/93	\$28,155.0	NR	NR	NR	NR	NR	NR	NR
0104	TENNESSEE CONSOLIDATED RETIREMENT SYSTEM	6/30/93	\$12,375.8	\$10,852.3	13.2%	12.7%	11.0%	10.9%	11.5%	ROR
0106	KENTUCKY TEACHERS' RETIREMENT SYSTEM	6/30/93	\$5,673.6	\$5,133.9	5.4%	NR	NR	NR	NR	YLD@BOOK
0107	CALIFORNIA STATE TEACHERS' RETIREMENT SYSTEM	6/30/93	\$46,727.2	\$38,302.3	13.8%	14.1%	8.8%	9.2%	16.5%	TWRR
0112	ARKANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$2,037.3	\$1,838.9	15.7%	12.5%	7.4%	11.3%	13.7%	ROR

TABLE F-1. PERS INVESTMENTS: TOTAL INVESTMENTS (IN \$ MILLIONS) AND RATES OF RETURN—Continued

SYSID	SYSTEM	DATE	TOT D M	TOT D C	RET93	RET92	RET91	RET90	RET89	BASE
0113	VIRGINIA RETIREMENT SYSTEM	6/30/93	\$16,123.2	\$14,452.2	11.5%	NR	NR	NR	NR	TWRR
0121	PENNSYLVANIA STATE EMPLOYEES' RETIREMENT SYSTEM	12/31/93	\$13,649.5	NR	13.2%	NR	NR	NR	NR	ROR
0125	PUBLIC EMPLOYEES' RETIREMENT ASSOCIATION OF COLORADO	12/31/93	\$14,020.5	\$12,311.2	14.9%	6.4%	20.1%	1.5%	17.2%	ROR
0134	HAWAII EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$4,733.6	\$4,577.3	10.0%	12.2%	8.7%	9.3%	11.4%	NET RET
0137	NEW YORK STATE TEACHERS' RETIREMENT SYSTEM	6/30/93	\$38,731.7	\$28,134.5	NR	NR	NR	NR	NR	NR
0138	MISSOURI STATE EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$3,039.5	\$2,879.1	13.5%	NR	NR	NR	NR	RETURN
0139	PENNSYLVANIA MUNICIPAL RETIREMENT SYSTEM	12/31/93	\$434.4	\$392.3	13.4%	NR	NR	NR	NR	DWRR
0144	OREGON PUBLIC EMPLOYEES' RETIREMENT SYSTEMS	6/30/93	\$15,171.1	\$14,902.8	NR	NR	NR	NR	NR	NR
0145	OHIO PUBLIC EMPLOYEES' RETIREMENT SYSTEM	12/31/93	\$24,134.6	\$23,335.5	4.8%	5.6%	NR	NR	NR	YIELD
0147	PUBLIC EMPLOYEE RETIREMENT SYSTEM OF IDAHO	6/30/93	\$2,531.7	\$2,198.2	13.0%	10.8%	6.6%	10.5%	13.8%	ROR
0148	GEORGIA TEACHERS' RETIREMENT SYSTEM	6/30/93	\$15,514.8	\$12,479.9	8.3%	9.6%	9.3%	10.8%	10.4%	YLD@COST
0151	IOWA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$7,006.1	\$6,242.7	10.3%	9.5%	8.4%	NA	NA	ROI
0154	NORTH DAKOTA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$549.4	\$486.7	15.3%	NR	7.4%	11.1%	12.1%	VARIES
0161	INDIANA STATE TEACHERS' RETIREMENT FUND	6/30/92	\$2,471.0	\$2,349.1	NR	12.7%	10.4%	NR	NR	TOT RET
0165	UTAH STATE RETIREMENT SYSTEMS	12/31/93	\$6,554.6	\$5,560.5	16.5%	4.5%	21.6%	1.3%	20.5%	ROR@MKT
0168	FLORIDA RETIREMENT SYSTEM	6/30/93	\$34,501.7	\$29,138.6	15.0%	NR	NR	NR	NR	TOT RET
0169	OKLAHOMA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	7/1/93	\$2,472.3	NR	13.9%	11.6%	5.8%	11.2%	NR	ROR
0170	DELAWARE STATE BOARD OF PENSIONS	NR	NR	NR	NR	NR	NR	NR	NR	NR
0174	WASHINGTON STATE RETIREMENT FUNDS	6/30/93	\$18,531.8	NR	11.9%	3.5%	20.3%	2.0%	16.1%	TWRR@MKT
0175	INDIANA PUBLIC EMPLOYEES' RETIREMENT FUND	6/30/93	\$4,800.1	\$4,502.7	NR	NR	NR	NR	NR	NR
0178	SOUTH DAKOTA RETIREMENT SYSTEMS	6/30/93	\$2,040.8	\$1,750.1	15.2%	13.4%	9.3%	3.0%	14.2%	TWRR
0181	MICHIGAN PUBLIC SCHOOL EMPLOYEES RETIREMENT SYSTEM	9/30/93	\$18,292.8	\$15,903.9	11.9%	8.9%	17.3%	-3.3%	16.0%	TOT ROR
0182	MICHIGAN STATE POLICE RETIREMENT SYSTEM	9/30/93	\$561.8	\$489.5	11.9%	9.2%	17.4%	-3.5%	15.7%	TOT ROR
0183	MICHIGAN JUDGES RETIREMENT SYSTEM	9/30/93	\$199.9	\$175.2	12.1%	9.1%	16.9%	-3.0%	15.8%	TOT ROR
0185	MICHIGAN STATE EMPLOYEES RETIREMENT SYSTEM	9/30/93	\$5,331.2	\$4,638.9	11.7%	9.1%	17.4%	-3.3%	15.8%	TOT ROR
0186	MICHIGAN MUNICIPAL EMPLOYEES RETIREMENT SYSTEM	9/30/93	\$2,037.7	\$1,791.9	12.4%	11.6%	22.3%	-2.8%	19.8%	TOT ROR
0191	OHIO STATE TEACHERS' RETIREMENT SYSTEM	6/30/93	\$26,944.2	\$24,519.8	12.5%	12.9%	8.2%	8.4%	13.7%	ROR@MKT
0193	KANSAS PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$5,071.8	\$4,555.4	14.7%	12.8%	0.3%	12.1%	12.0%	TWRR
0195	MONTANA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$1,300.4	\$1,087.2	9.3%	9.1%	9.4%	10.1%	10.3%	RETURN
0195	MONTANA MUNICIPAL POLICE OFFICERS' RETIREMENT SYSTEM	6/30/93	\$1,085.4	\$901.6	9.2%	9.1%	9.4%	10.1%	10.3%	RETURN
0195	MONTANA OTHER RETIREMENT SYSTEM	6/30/93	\$233.4	\$204.3	8.7%	9.0%	9.5%	10.1%	10.5%	RETURN
0202	NEW YORK STATE & LOCAL RETIREMENT SYSTEMS	3/31/93	\$56,428.9	NR	12.5%	10.7%	11.7%	13.9%	13.6%	ROR
0204	ARIZONA STATE RETIREMENT SYSTEM	6/30/93	\$10,911.4	\$9,355.0	16.7%	14.6%	8.0%	9.5%	14.3%	TOT ROR
0235	NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEM	6/30/92	\$1,448.3	\$1,226.8	10.0%	10.9%	11.1%	12.7%	8.4%	ROR@AV
0278	CALIFORNIA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/92	\$67,489.2	\$59,826.7	11.8%	12.5%	6.5%	9.7%	15.7%	TOT RET
0302	CONNECTICUT STATE EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$3,995.0	NR	12.0%	8.0%	3.9%	10.3%	14.3%	ROR
0303	ALASKA PUBLIC EMPLOYEES' RETIREMENT SYSTEM	6/30/93	\$4,007.9	\$3,637.8	13.9%	NR	NR	NR	NR	ROR@MKT
0304	ALASKA TEACHERS' RETIREMENT SYSTEM	6/30/93	\$2,306.5	\$2,084.5	13.7%	NR	NR	NR	NR	ROR@MKT
0349	MAINE STATE RETIREMENT SYSTEM	6/30/91	\$2,920.6	\$2,293.2	NR	NR	6.4%	NR	NR	NR
0361	DISTRICT OF COLUMBIA RETIREMENT BOARD	9/30/93	\$2,586.3	NR	15.6%	NR	NR	NR	NR	TOT RET
0372	EMPLOYEES' RETIREMENT SYSTEM OF RHODE ISLAND	NR	NR	NR	NR	NR	NR	NR	NR	NR

TABLE F-1. PERS INVESTMENTS: TOTAL INVESTMENTS (IN \$ MILLIONS) AND RATES OF RETURN—Continued

SYSID	SYSTEM	DATE	TOT D M	TOT D C	RET93	RET92	RET91	RET90	RET89	BASE
0373	PUBLIC EMPLOYEES' RETIREMENT BOARD OF NEW MEXICO	6/30/93	\$2,869.2	\$2,489.7	13.4%	NR	NR	NR	NR	NR
0374	MARYLAND STATE RETIREMENT AGENCY	6/30/93	\$16,430.0	\$14,066.6	15.6%	14.4%	8.2%	9.2%	16.2%	ROR
0375	COMMONWEALTH OF MASSACHUSETTS, STATE BOARD OF RETIREMENT	6/30/93	\$7,325.7	NR	NR	NR	NR	NR	NR	NR
0376A	WV CONSOLIDATED PUBLIC RETIREMENT BOARD - GENERAL	6/30/93	\$1,745.4	NR	15.9%	NR	NR	NR	NR	ROR@MKT
0376B	WV CONSOLIDATED PUBLIC RETIREMENT BOARD - TEACHERS'	6/30/93	\$370.1	\$351.2	13.1%	NR	NR	NR	NR	ROR@MKT
0376C	WV CONSOLIDATED PUBLIC RETIREMENT BOARD - JUDGES	6/30/93	\$17.2	NR	11.5%	NR	NR	NR	NR	ROR@MKT
0376D	WV CONSOLIDATED PUBLIC RETIREMENT BOARD - PUBLIC SAFETY	6/30/93	\$60.2	NR	11.8%	NR	NR	NR	NR	ROR@MKT
0377	VERMONT PUBLIC EMPLOYEES' RETIREMENT SYSTEM	NR	NR	NR	NR	NR	NR	NR	NR	NR
COUNT		NA	85	73	79	61	62	57	57	NA
SUM		NA	\$782,038.6	\$572,045.2	NA	NA	NA	NA	NA	NA
AVG.		NA	\$9,200.5	\$7,836.2	12.0%	10.8%	10.7%	8.4%	13.6%	NA
ST. DEV.		NA	12,679.5	10,268.1	2.7%	2.5%	4.9%	4.8%	2.9%	NA

TABLE F-2. PERS INVESTMENTS: EQUITY INVESTMENTS (IN \$ MILLIONS)

SYSID	DSTOCK D	REALEQ D	INTLEQ D	OTHREQ D	OTHREQ STR	TOTLEQ D
0001	\$1,711.3	\$0.0	\$445.2	\$0.0	NA	\$2,156.5
0002	\$888.8	\$0.0	\$0.0	\$0.0	NA	\$888.8
0003	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0003	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0003	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0003	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0004	\$13.4	\$0.0	\$0.0	\$0.0	NA	\$13.4
0005A	\$1,181.8	\$82.4	\$117.4	\$0.0	NA	\$1,381.6
0005B*	\$2,683.7	\$161.0	\$259.4	\$0.0	NA	\$3,104.2
0005C*	\$27.0	\$0.6	\$0.0	\$0.0	NA	\$27.6
0006	\$2,687.5	\$0.0	\$241.5	\$0.0	NA	\$2,929.0
0007	\$1,298.7	\$0.0	\$212.8	\$0.0	NA	\$1,511.5
0010	\$2,243.5	\$0.0	\$221.2	\$0.0	NA	\$2,464.7
0013	\$11,491.4	\$635.7	\$635.7	\$73.3	FARMLAND	\$12,836.1
0015	\$1,952.6	\$575.8	\$1,037.7	\$0.0	NA	\$3,566.1
0019	\$145.5	\$0.0	\$0.0	\$0.0	NA	\$145.5
0034	\$43.3	\$0.0	\$0.0	\$0.0	NA	\$43.3
0043	\$1,092.8	\$0.0	\$241.1	\$0.0	NA	\$1,334.0
0048	\$3,028.2	\$293.1	\$0.0	\$0.0	NA	\$3,321.3
0055	\$252.4	\$13.1	\$63.7	\$0.0	NA	\$329.2
0057	\$624.4	\$0.0	\$0.0	\$0.0	NA	\$624.4
0063	\$3,596.3	\$1,593.1	\$1,077.7	\$0.0	NA	\$6,267.2
0064	\$2,819.3	\$0.0	\$0.0	\$0.0	NA	\$2,819.3
0066	\$3,972.5	\$0.0	\$0.0	\$0.0	NA	\$3,972.5
0067	\$7,771.7	\$0.0	\$131.2	\$0.0	NR	\$7,902.9
0068	\$3,582.1	\$0.0	\$47.5	\$0.0	NA	\$3,629.6
0069	\$6,529.3	\$0.0	\$96.7	\$0.0	NA	\$6,626.0
0071	\$1,027.5	\$0.0	\$340.5	\$0.0	NA	\$1,368.0
0072	\$1,247.6	\$0.0	\$0.0	\$0.0	NA	\$1,247.6
0076	NR	NR	NR	NR	NR	\$6,041.8
0079	\$1,782.3	\$0.0	\$0.0	\$0.0	NA	\$1,782.3
0083	\$1,137.1	\$0.0	\$0.0	\$110.3	NA	\$1,247.4
0085	\$1,945.1	\$0.0	\$0.0	\$0.0	NA	\$1,945.1
0086	\$102.0	\$0.0	\$0.0	\$5.6	STOCK INDEX FUND	\$107.6
0087	\$960.6	\$35.7	\$198.1	\$0.0	NA	\$1,194.4
0096	\$16,726.2	\$486.0	\$1,418.5	\$0.0	NA	\$18,630.7
0098	\$16,435.2	\$641.7	\$0.0	\$0.0	NA	\$17,076.9
0104	\$3,629.6	\$0.0	\$750.6	\$0.0	NA	\$4,380.2

TABLE F-2. PERS INVESTMENTS: EQUITY INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	DSTOCK D	REALEQ D	INTLEQ D	OTHREQ D	OTHREQ STR	TOTLEQ D
0106	\$1,920.0	\$58.9	\$0.0	\$0.0	NA	\$1,978.9
0107	\$18,994.6	\$1,523.3	\$2,336.4	\$350.5	ALTERNATIVE	\$23,204.7
0112	\$776.0	\$0.0	\$62.5	\$0.0	NA	\$838.6
0113	\$3,363.6	\$0.0	\$455.3	\$0.0	NA	\$3,818.9
0121	\$5,770.0	\$842.3	\$749.7	\$0.0	NA	\$7,362.0
0125	\$6,292.4	\$483.7	\$1,718.9	\$0.0	NA	\$8,495.0
0134	\$1,618.5	\$448.5	\$678.0	\$0.0	NA	\$2,745.0
0137	\$15,057.7	\$1,080.4	\$258.7	\$0.0	NA	\$16,396.8
0138	\$1,250.8	\$53.4	\$0.0	\$0.0	NA	\$1,304.2
0139	\$215.0	\$41.5	\$28.7	\$0.0	NA	\$285.2
0144	\$7,743.9	\$623.7	\$1,994.5	\$0.0	NA	\$10,362.1
0145	\$3,648.0	\$1,472.0	\$0.0	\$0.0	NA	\$5,120.0
0147	\$1,095.0	\$178.2	\$320.9	\$0.0	NA	\$1,594.1
0148	\$7,165.3	\$3.1	\$0.0	\$0.0	NA	\$7,168.4
0151	\$1,875.2	\$377.7	\$321.7	\$513.8	NA	\$3,088.4
0154	\$223.0	\$13.1	\$56.0	\$0.0	NA	\$292.1
0161	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0165	NR	NR	NR	NR	NR	\$4,175.3
0168	\$17,683.0	\$0.0	\$0.0	\$0.0	NA	\$17,683.0
0169	\$1,383.6	\$0.0	\$0.0	\$0.0	NA	\$1,383.6
0170	NR	NR	NR	NR	NR	NR
0174	\$7,492.9	\$645.2	\$0.0	\$0.0	NA	\$8,138.1
0175	\$0.0	\$0.0	\$0.0	\$0.0	NA	\$0.0
0178	\$957.5	\$6.6	\$123.4	\$0.5	NA	\$1,088.0
0181	\$6,514.7	\$1,055.8	\$462.3	\$0.0	NA	\$8,032.8
0182	\$200.6	\$33.0	\$14.2	\$0.0	NA	\$247.8
0183	\$70.2	\$10.9	\$4.8	\$0.0	NA	\$85.9
0185	\$1,890.7	\$320.9	\$134.2	\$0.0	NA	\$2,345.8
0186	\$903.0	\$33.5	\$101.6	\$0.0	NA	\$1,038.1
0191	\$9,888.5	\$1,724.4	\$0.0	\$26.9	NR	\$11,639.9
0193	\$2,018.4	\$343.3	\$303.2	\$0.0	NA	\$2,664.9
0195	\$400.5	\$0.0	\$0.0	\$0.0	NA	\$400.5
0195	\$335.6	\$0.0	\$0.0	\$0.0	NA	\$335.6
0195	\$49.2	\$0.0	\$0.0	\$0.0	NA	\$49.2
0202	\$27,121.0	\$1,074.0	\$2,090.0	\$0.0	NA	\$30,285.0
0204	\$4,962.4	\$0.0	\$559.7	\$0.0	NA	\$5,522.1
0235	\$765.8	\$0.0	\$0.0	\$0.0	NA	\$765.8
0278	\$22,236.8	\$4,680.0	\$6,603.3	\$0.0	NA	\$33,520.1

Table F-2. PERS INVESTMENTS: EQUITY INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	DSTOCK D	REALEQ D	INTLEQ D	OTHREQ D	OTHREQ STR	TOTLEQ D
0302	\$1,333.6	\$393.4	\$708.9	\$0.0	NA	\$2,435.9
0303	\$1,540.8	\$113.4	\$288.2	\$0.0	NA	\$1,942.4
0304	\$879.4	\$67.7	\$181.0	\$0.0	NA	\$1,128.1
0349	NR	NR	NR	NR	NR	\$1,711.6
0361	NR	NR	NR	NR	NR	\$1,701.9
0372	NR	NR	NR	NR	NR	NR
0373	\$1,245.2	\$0.0	\$0.0	\$0.0	NA	\$1,245.2
0374	\$6,637.7	\$230.0	\$0.0	\$0.0	NA	\$6,867.7
0375	\$2,562.6	\$0.0	\$961.9	\$0.0	NA	\$3,524.5
0376A	\$0.0	\$0.0	\$0.0	\$5.0	EQUITY POOL	\$5.0
0376B	\$0.0	\$0.0	\$0.0	\$0.9	EQUITY POOL	\$0.9
0376C	\$0.0	\$0.0	\$0.0	\$0.1	EQUITY POOL	\$0.1
0376D	\$0.0	\$0.0	\$0.0	\$0.2	EQUITY POOL	\$0.2
0377	NR	NR	NR	NR	NR	NR
COUNT	83	83	83	83	NA	87
SUM	\$300,713.5	\$22,450.1	\$29,054.6	\$1,087.1	NA	\$366,935.9
AVG.	\$3,623.1	\$270.5	\$350.1	\$13.1	NA	\$4,217.7
ST. DEV.	5,470.0	637.7	854.0	69.0	NA	6,370.4

TABLE F-3. PERS INVESTMENTS: FIXED-INCOME INVESTMENTS (IN \$ MILLIONS)

SYSID	DBONDS D	CBONDS D	GBONDS D	RLMORT D	INTLFX D	OTHRFX D	OTHRFX STR	TOTLFX D
0001	\$1,992.1	NA	NA	\$420.8	\$400.0	\$0.0	NA	\$2,812.9
0002	\$2,224.3	\$1,014.2	\$1,210.1	\$0.0	\$0.0	\$0.0	NA	\$2,224.3
0003	\$9,973.6	\$4,140.9	\$5,832.7	\$0.0	\$0.0	\$0.0	NA	\$9,973.6
0003	\$1,046.3	\$491.2	\$555.1	\$0.0	\$0.0	\$0.0	NA	\$1,046.3
0003	\$27.9	\$9.0	\$18.9	\$0.0	\$0.0	\$0.0	NA	\$27.9
0003	\$51.5	\$21.3	\$30.2	\$0.0	\$0.0	\$0.0	NA	\$51.5
0004	\$4,316.5	\$1,194.2	\$3,122.3	\$0.0	\$0.0	\$0.0	NA	\$4,316.5
0005A	\$1,500.6	\$1,424.6	\$76.0	\$413.0	\$271.2	\$0.0	NA	\$2,184.8
0005B*	\$3,424.5	\$3,274.2	\$150.3	\$891.8	\$653.0	\$0.0	NA	\$4,969.3
0005C*	\$77.6	\$0.0	\$77.6	\$3.6	\$0.0	\$0.0	NA	\$81.2
0006	\$3,715.8	\$864.7	\$2,851.1	\$0.0	\$0.0	\$70.1	MUNI BONDS	\$3,785.9
0007	\$1,177.1	\$912.4	\$264.7	\$0.0	\$54.8	\$0.0	NA	\$1,231.9
0010	\$2,011.9	\$596.7	\$1,415.2	\$2.2	\$391.3	\$60.5	MISC.	\$2,465.8
0013	\$8,948.6	\$1,442.5	\$7,506.1	\$0.0	\$757.9	\$391.2	MISC.	\$10,097.7
0015	\$1,370.4	NR	NR	\$280.7	\$349.2	\$2.9	MUTUAL FUNDS	\$2,003.2
0019	\$169.5	NR	NR	\$0.0	\$0.0	\$0.0	NA	\$169.5
0034	\$29.7	\$0.2	\$29.5	\$0.0	\$0.0	\$0.2	OTHER	\$30.0
0043	\$615.0	NR	NR	\$0.0	\$0.0	\$0.0	NA	\$615.0
0048	\$781.5	\$244.2	\$537.3	\$146.5	\$0.0	\$0.0	NA	\$928.0
0055	\$270.7	NR	NR	\$0.0	\$25.0	\$0.0	NA	\$295.7
0057	\$1,493.3	\$675.7	\$817.6	\$0.0	\$0.0	\$14.7	SBA LOANS, OTHER	\$1,508.0
0063	\$3,127.7	\$1,968.0	\$1,159.7	\$0.0	\$1,499.4	\$0.0	NA	\$4,627.1
0064	\$2,596.5	NR	NR	\$5.8	\$0.0	\$0.0	NA	\$2,602.3
0066	\$4,847.8	\$1,059.0	\$3,788.8	\$0.0	\$0.0	\$141.0	MUTUAL FUNDS	\$4,988.8
0067	\$4,975.9	\$831.2	\$4,144.7	\$1,084.6	\$826.9	\$0.0	NA	\$6,887.4
0068	\$2,295.8	\$386.5	\$1,909.3	\$732.4	\$299.5	\$0.0	NA	\$3,327.7
0069	\$4,239.8	\$698.1	\$3,541.7	\$811.9	\$609.2	\$0.0	NA	\$5,660.9
0071	\$1,232.4	\$181.4	\$1,051.0	\$103.7	\$298.5	\$0.0	NA	\$1,634.6
0072	\$1,091.9	\$204.0	\$887.9	\$142.2	\$0.0	\$0.0	NA	\$1,234.1
0076	NR	NR	NR	NR	NR	NR	NA	\$14,725.7
0079	\$1,381.4	\$284.1	\$1,097.4	\$276.3	\$120.6	\$0.0	NA	\$1,778.4
0083	\$1,231.0	\$294.6	\$936.4	\$0.0	\$0.0	\$71.1	NA	\$1,302.1
0085	\$6,790.7	\$3,177.4	\$3,613.3	\$0.0	\$0.0	\$0.0	NA	\$6,790.7
0086	\$530.7	\$288.0	\$242.7	\$0.0	\$0.0	\$0.0	NA	\$530.7
0087	\$548.4	NR	NR	\$0.5	\$75.1	\$0.0	NA	\$624.0
0096	\$14,458.7	\$5,354.8	\$9,103.9	\$1,396.3	\$1,392.4	\$702.7	NR	\$17,950.1
0098	\$6,089.6	NR	NR	\$239.2	\$0.0	\$3,911.8	PRIVATE PLACEMENTS	\$10,240.6
0104	\$6,089.6	\$3,199.5	\$3,147.6	\$0.0	\$822.1	\$0.0	NA	\$6,911.7

TABLE F-3. PERS INVESTMENTS: FIXED-INCOME INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	DBONDS D	CBONDS D	GBONDS D	RLMORT D	INTLFX D	OTHRFX D	OTHRFX STR	TOTLFX D
0106	\$3,151.8	\$614.2	\$2,537.6	\$0.0	\$0.0	\$0.0	NA	\$3,151.8
0107	\$19,471.2	NA	NA	\$1,415.8	\$112.1	\$0.0	NA	\$20,999.2
0112	\$1,050.0	\$356.5	\$693.5	\$0.0	\$0.0	\$0.0	NA	\$1,050.0
0113	\$4,050.0	\$2,480.8	\$1,569.2	\$255.4	\$201.5	\$0.0	NA	\$4,506.9
0121	\$4,168.4	NR	NR	\$851.6	NR	\$0.0	NA	\$5,020.0
0125	\$3,740.7	\$1,671.2	\$2,069.4	\$508.9	\$265.0	\$426.2	GICs	\$4,940.8
0134	\$1,411.8	NA	NA	\$342.4	\$224.5	\$10.0	INSURANCE CONTRACTS	\$1,988.7
0137	\$8,724.2	\$3,933.7	\$4,790.5	\$1,841.0	\$215.1	\$0.0	NA	\$10,780.3
0138	\$1,064.6	\$110.0	\$954.6	\$39.6	\$0.0	\$23.2	GICs, CMOs	\$1,127.4
0139	\$140.2	\$23.8	\$116.4	\$0.0	\$0.0	\$0.0	NA	\$140.2
0144	\$2,823.2	\$1,180.0	\$1,643.2	\$716.9	\$404.7	\$0.0	NA	\$3,944.8
0145	\$18,999.2	\$1,039.7	\$17,959.5	\$0.0	\$0.0	\$0.0	NA	\$18,999.2
0147	\$677.0	NA	NA	\$131.3	\$0.0	\$0.0	NA	\$808.3
0148	\$7,803.5	\$0.0	\$7,803.5	\$10.7	\$0.0	\$0.0	NA	\$7,814.2
0151	\$2,972.5	\$1,694.3	\$1,278.2	\$0.0	\$153.5	\$0.0	NA	\$3,126.0
0154	\$209.3	NR	NR	\$0.0	\$24.5	\$0.0	NA	\$233.8
0161	\$2,293.6	\$874.2	\$1,419.4	\$0.0	\$0.0	\$0.0	NA	\$2,293.6
0165	NR	NR	NR	NR	NR	NR	NR	\$2,005.7
0168	\$9,721.0	\$5,988.1	\$3,732.9	\$1,048.7	\$0.0	\$2,747.2	GROUP TRUST	\$13,516.9
0169	\$825.1	NR	NR	\$105.5	\$0.0	\$0.0	NA	\$930.6
0170	NR	NR	NR	NR	NR	NR	NR	NR
0174	\$8,227.6	\$2,787.9	\$5,439.7	\$62.0	\$198.3	\$0.0	NA	\$8,487.9
0175	\$4,344.9	\$968.5	\$3,376.4	\$163.2	\$77.8	\$0.0	NA	\$4,585.9
0178	\$669.3	\$265.3	\$404.0	\$0.0	\$0.0	\$0.0	NA	\$669.3
0181	\$5,540.1	\$3,149.8	\$2,390.3	\$716.1	\$0.0	\$0.0	NA	\$6,256.2
0182	\$172.8	\$97.0	\$75.8	\$23.5	\$0.0	\$0.0	NA	\$196.3
0183	\$61.5	\$33.7	\$27.8	\$7.8	\$0.0	\$0.0	NA	\$69.3
0185	\$1,632.9	\$913.9	\$719.0	\$197.8	\$0.0	\$0.0	NA	\$1,830.7
0186	\$718.1	\$283.4	\$434.7	\$0.7	\$0.0	\$0.0	NA	\$718.8
0191	\$8,164.1	\$2,829.1	\$5,335.0	\$3,826.1	\$835.3	\$0.0	NA	\$12,825.4
0193	\$1,932.3	NR	NR	\$0.0	\$307.1	\$0.0	NA	\$2,239.4
0195	\$714.8	\$496.3	\$218.5	\$64.2	\$32.5	\$0.0	NA	\$811.5
0195	\$601.3	\$416.1	\$185.2	\$45.1	\$31.4	\$0.0	NA	\$677.8
0195	\$160.7	\$98.0	\$62.7	\$0.0	\$7.9	\$0.0	NA	\$168.6
0202	\$20,788.4	\$3,920.3	\$16,868.1	\$2,120.7	\$0.0	\$744.9	COMMINGLED	\$23,654.0
0204	\$4,658.9	\$381.2	\$4,277.7	\$222.3	\$0.0	\$0.0	NA	\$4,881.2
0235	\$593.5	\$62.8	\$530.7	\$0.0	\$5.4	\$5.2	MUNI BONDS	\$604.1
0278	\$14,928.8	\$9,810.9	\$5,117.9	\$12,281.9	\$3,288.7	\$256.3	NA	\$30,755.7

TABLE F-3. PERS INVESTMENTS: FIXED-INCOME INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	DBONDS D	CBONDS D	GBONDS D	RLMORT D	INTLFX D	OTHRFX D	OTHRFX STR	TOTLFX D
0302	\$916.7	NR	NR	\$202.9	\$237.1	\$0.0	NA	\$1,356.7
0303	\$1,906.2	\$840.9	\$1,065.3	\$8.4	\$0.0	\$0.0	NA	\$1,914.6
0304	\$1,069.5	\$505.9	\$563.6	\$6.8	\$0.0	\$0.0	NA	\$1,076.3
0349	\$913.0	NA	NA	\$0.0	\$0.0	\$0.0	NA	\$913.0
0361	NR	NR	NR	NR	NR	NR	NR	\$653.7
0372	NR	NR	NR	NR	NR	NR	NR	NR
0373	\$1,624.0	\$262.6	\$1,361.4	\$0.0	\$0.0	\$0.0	NA	\$1,624.0
0374	\$7,672.8	\$3,762.5	\$3,910.3	\$1,183.0	\$0.0	\$16.4	NA	\$8,872.2
0375	\$2,933.5	\$963.3	\$1,970.2	\$0.0	\$0.0	\$0.0	NA	\$2,933.5
0376A	\$1,682.9	\$27.1	\$1,655.8	\$0.0	\$0.0	\$15.3	CMOs , LOANS	\$1,698.2
0376B	\$281.7	\$50.3	\$231.4	\$0.0	\$0.0	\$3.2	LOANS, RECEIVABLES	\$284.9
0376C	\$13.6	\$1.1	\$12.5	\$0.0	\$0.0	\$0.5	CMOs	\$14.1
0376D	\$50.7	\$7.8	\$42.9	\$0.0	\$0.0	\$1.6	CMOs	\$52.3
0377	NR	NR	NR	NR	NR	NR	NR	NR
COUNT	84	67	67	84	83	84	NA	87
SUM	\$293,018.0	\$87,135.0	\$161,963.5	\$35,351.8	\$15,468.6	\$9,616.3	NA	\$370,839.8
AVG.	\$3,488.3	\$1,300.5	\$2,417.4	\$420.9	\$186.4	\$114.5	NA	\$4,262.5
ST. DEV.	4,464.2	1,750.8	3,376.5	1,435.8	453.5	529.1	NA	5,731.9

TABLE F-4. PERS INVESTMENTS: OTHER INVESTMENTS (IN \$ MILLIONS)

SYSID	SHORT D	VENTURE D	OTHER D	OTHR STR
0001	\$276.0	\$29.4	\$0.0	NA
0002	\$11.9	\$0.0	\$0.0	NA
0003	\$1,004.5	\$0.0	\$0.0	NA
0003	\$107.5	\$0.0	\$0.0	NA
0003	\$2.6	\$0.0	\$0.0	NA
0003	\$2.2	\$0.0	\$0.0	NA
0004	\$9.5	\$0.0	\$0.0	NA
0005A	\$452.6	\$0.0	\$0.0	NA
0005B*	\$839.0	\$0.0	\$0.0	NA
0005C*	\$19.3	\$0.0	\$0.0	NA
0006	\$1,075.0	\$0.0	\$0.0	NA
0007	\$72.6	\$0.0	\$1,400.9	NR
0010	\$518.8	\$0.0	\$0.0	NA
0013	\$1,271.4	\$122.2	\$0.0	NA
0015	\$181.8	\$74.6	\$10.8	NA
0019	\$13.6	\$0.0	\$24.0	COMMINGLED
0034	\$6.8	\$0.0	\$0.0	NA
0043	\$48.7	\$0.0	\$214.6	NR
0048	\$634.9	\$0.0	\$0.0	NA
0055	\$13.1	\$0.1	\$0.0	NA
0057	\$146.7	\$0.0	\$0.0	NA
0063	\$656.0	\$0.0	\$175.7	NR
0064	\$211.0	\$0.0	\$0.0	NA
0066	\$1,541.7	\$0.0	\$0.0	NA
0067	\$364.5	\$0.0	\$333.7	MISC.
0068	\$89.2	\$0.0	\$147.1	MISC.
0069	\$185.3	\$0.0	\$270.9	MISC.
0071	\$97.8	\$0.9	\$101.2	REAL ESTATE POOLS
0072	\$429.3	\$0.0	\$0.0	NA
0076	\$39.0	\$28.2	\$238.2	REAL ESTATE
0079	\$299.6	\$31.1	\$0.0	NA
0083	\$274.0	\$0.0	\$0.0	NA
0085	\$356.8	\$0.0	\$23.3	GICs
0086	\$32.6	\$0.0	\$0.0	NA
0087	\$4.3	\$0.0	\$157.7	ALTERNATIVE
0096	\$79.8	\$0.0	\$0.0	NA
0098	\$837.5	\$0.0	\$0.0	NA
0104	\$826.4	\$0.0	\$0.0	NA

TABLE F-4. PERS INVESTMENTS: OTHER INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	SHORT D	VENTURE D	OTHER D	OTHR STR
0106	\$542.8	\$0.0	\$0.0	NA
0107	\$2,523.3	\$0.0	\$0.0	NA
0112	\$132.2	\$0.0	\$0.0	NA
0113	\$1,632.0	\$348.5	\$5,835.0	INDEX AND POOLED FUNDS
0121	\$357.7	\$75.2	\$836.5	TACTICAL, ALTERNATIVE
0125	\$222.9	\$113.6	\$248.2	NA
0134	\$436.8	\$0.0	\$0.0	NA
0137	\$0.0	\$24.0	\$62.5	MEMBER LOANS
0138	\$577.4	\$29.7	\$0.0	NA
0139	\$9.0	\$0.0	\$0.0	NA
0144	\$0.0	\$62.3	\$801.9	LBOs
0145	\$0.0	\$15.3	\$0.0	NA
0147	\$129.3	\$0.0	\$0.0	NA
0148	\$532.2	\$0.0	\$0.0	NA
0151	\$698.1	\$93.6	\$0.0	NA
0154	\$11.6	\$11.8	\$0.0	NA
0161	\$177.3	\$0.0	\$0.0	NA
0165	\$32.8	\$0.0	\$340.8	REAL ESTATE
0168	\$2,764.6	\$0.0	\$537.1	NA
0169	\$141.7	\$0.0	\$16.0	RECEIVABLES
0170	NR	NR	NR	NR
0174	\$576.2	\$314.9	\$1,410.1	LBOs, OTHER
0175	\$214.1	\$0.0	\$0.0	NA
0178	\$284.6	\$0.0	\$0.0	NA
0181	\$3,139.9	\$0.0	\$864.0	ALTERNATIVE
0182	\$91.3	\$0.0	\$26.3	ALTERNATIVE
0183	\$36.1	\$0.0	\$8.6	ALTERNATIVE
0185	\$913.7	\$0.0	\$241.1	ALTERNATIVE
0186	\$280.8	\$0.0	\$0.0	NA
0191	\$2,478.9	\$0.0	\$0.0	NA
0193	\$28.3	\$0.0	\$139.3	ALTERNATIVE
0195	\$61.1	\$10.1	\$17.2	LBOs
0195	\$49.8	\$8.3	\$14.1	LBOs
0195	\$12.4	\$0.0	\$3.1	LBOs
0202	\$937.5	\$85.2	\$1,469.4	NA
0204	\$507.7	\$0.0	\$1.2	CURRENCY
0235	\$78.4	\$0.0	\$0.0	NA
0278	\$3,123.7	\$89.7	\$0.0	NA

TABLE F-4. PERS INVESTMENTS: OTHER INVESTMENTS (IN \$ MILLIONS)—Continued

SYSID	SHORT D	VENTURE D	OTHER D	OTHR STR
0302	\$150.1	\$51.1	\$7.5	IN-STATE
0303	\$105.5	\$0.0	\$45.4	RECEIVABLES
0304	\$74.8	\$0.0	\$27.2	RECEIVABLES
0349	\$37.0	\$0.0	\$259.0	COMMINGLED AND OTHER
0361	\$230.6	\$0.0	\$0.0	NA
0372	NR	NR	NR	NR
0373	\$0.0	\$0.0	\$0.0	NA
0374	\$673.6	\$16.4	\$0.0	NA
0375	\$395.8	\$432.9	\$39.1	MUNIS, OPTIONS & FUTURES, OTHER
0376A	\$24.9	\$0.0	\$17.4	NA
0376B	\$48.4	\$0.0	\$35.9	NA
0376C	\$2.7	\$0.0	\$0.3	NA
0376D	\$6.9	\$0.0	\$0.9	NA
0377	NR	NR	NR	NR
COUNT	87	87	87	NA
SUM	\$38,519.8	\$2,069.2	\$16,403.1	NA
AVG.	\$442.8	\$23.8	\$188.5	NA
ST. DEV.	689.6	71.0	683.3	NA

TABLE F-5. PERS INVESTMENTS: INVESTMENT DISTRIBUTION BY MAJOR ASSET CLASS (AS A % OF THE PORTFOLIO)

SYSD	DSTOCK	REALEQ	INTLEQ	OTHREQ	TOTLEQ	DBONDS	CBONDS	GBONDS	RLMORT	INTLFX	OTHRFX	TOTLFX	SHORT	VENTURE	OTHR
0001	32.56%	0.00%	8.47%	0.00%	41.03%	37.91%	NA	NA	8.01%	7.61%	0.00%	53.52%	5.25%	0.56%	0.00%
0002	28.44%	0.00%	0.00%	0.00%	28.44%	71.18%	32.45%	38.72%	0.00%	0.00%	0.00%	71.18%	0.38%	0.00%	0.00%
0003	0.00%	0.00%	0.00%	0.00%	0.00%	90.85%	37.72%	53.13%	0.00%	0.00%	0.00%	90.85%	9.15%	0.00%	0.00%
0003	0.00%	0.00%	0.00%	0.00%	0.00%	90.68%	42.57%	48.11%	0.00%	0.00%	0.00%	90.68%	9.32%	0.00%	0.00%
0003	0.00%	0.00%	0.00%	0.00%	0.00%	91.48%	29.51%	61.97%	0.00%	0.00%	0.00%	91.48%	8.36%	0.00%	0.00%
0003	0.00%	0.00%	0.00%	0.00%	0.00%	96.04%	39.79%	56.25%	0.00%	0.00%	0.00%	96.04%	4.01%	0.00%	0.00%
0004	0.31%	0.00%	0.00%	0.00%	0.31%	99.47%	27.52%	71.95%	0.00%	0.00%	0.00%	99.47%	0.22%	0.00%	0.00%
0005A	29.20%	2.04%	2.90%	0.00%	34.14%	37.08%	35.20%	1.88%	10.20%	6.70%	0.00%	53.98%	11.18%	0.00%	0.00%
0005B*	30.00%	1.80%	2.90%	0.00%	34.70%	38.28%	36.60%	1.68%	9.97%	7.30%	0.00%	55.55%	9.38%	0.00%	0.00%
0005C*	21.08%	0.47%	0.00%	0.00%	21.55%	60.58%	0.00%	60.58%	2.81%	0.00%	0.00%	63.39%	15.07%	0.00%	0.00%
0006	34.50%	0.00%	3.10%	0.00%	37.60%	47.70%	11.10%	36.60%	0.00%	0.00%	0.90%	48.60%	13.80%	0.00%	0.00%
0007	30.80%	0.00%	5.05%	0.00%	35.84%	27.91%	21.64%	6.28%	0.00%	1.30%	0.00%	29.21%	1.72%	0.00%	33.22%
0010	41.17%	0.00%	4.06%	0.00%	45.23%	36.92%	10.95%	25.97%	0.04%	7.18%	1.11%	45.25%	9.52%	0.00%	0.00%
0013	47.00%	2.60%	2.60%	0.30%	52.50%	36.60%	5.90%	30.70%	0.00%	3.10%	1.60%	41.30%	5.20%	0.50%	0.00%
0015	33.45%	9.87%	17.78%	0.00%	61.10%	23.48%	NA	NA	4.81%	5.98%	0.05%	34.32%	3.11%	1.28%	0.19%
0019	41.31%	0.00%	0.00%	0.00%	41.31%	48.13%	NR	NR	0.00%	0.00%	0.00%	48.13%	3.86%	0.00%	6.81%
0034	54.04%	0.00%	0.00%	0.00%	54.04%	37.05%	0.27%	36.78%	0.00%	0.00%	0.31%	37.36%	8.54%	0.00%	0.00%
0043	49.40%	0.00%	10.90%	0.00%	60.30%	27.80%	NR	NR	0.00%	0.00%	0.00%	27.80%	2.20%	0.00%	9.70%
0048	62.00%	6.00%	0.00%	0.00%	68.00%	16.00%	5.00%	11.00%	3.00%	0.00%	0.00%	19.00%	13.00%	0.00%	0.00%
0055	39.55%	2.05%	9.98%	0.00%	51.58%	42.42%	NR	NR	0.00%	3.92%	0.00%	46.33%	2.05%	0.02%	0.00%
0057	27.40%	0.00%	0.00%	0.00%	27.40%	65.52%	29.65%	35.88%	0.00%	0.00%	0.65%	66.17%	6.44%	0.00%	0.00%
0063	30.70%	13.60%	9.20%	0.00%	53.50%	26.70%	16.80%	9.90%	0.00%	12.80%	0.00%	39.50%	5.60%	0.00%	1.50%
0064	50.05%	0.00%	0.00%	0.00%	50.05%	46.10%	NR	NR	0.10%	0.00%	0.00%	46.20%	3.75%	0.00%	0.00%
0066	37.82%	0.00%	0.00%	0.00%	37.82%	46.16%	10.08%	36.07%	0.00%	0.00%	1.34%	47.50%	14.68%	0.00%	0.00%
0067	50.18%	0.00%	0.85%	0.00%	51.02%	32.13%	5.37%	26.76%	7.00%	5.34%	0.00%	44.47%	2.35%	0.00%	2.15%
0068	49.79%	0.00%	0.66%	0.00%	50.46%	31.91%	5.37%	26.54%	10.18%	4.16%	0.00%	46.26%	1.24%	0.00%	2.04%
0069	51.24%	0.00%	0.76%	0.00%	52.00%	33.27%	5.48%	27.79%	6.37%	4.78%	0.00%	44.42%	1.45%	0.00%	2.13%
0071	32.07%	0.00%	10.63%	0.00%	42.70%	38.47%	5.66%	32.81%	3.24%	9.32%	0.00%	51.03%	3.05%	0.03%	3.16%
0072	42.91%	0.00%	0.00%	0.00%	42.91%	37.55%	7.02%	30.54%	4.89%	0.00%	0.00%	42.44%	14.76%	0.00%	0.00%
0076	NR	NR	NR	NR	28.67%	NR	NR	NR	NR	NR	NR	69.88%	0.19%	0.13%	1.13%
0079	45.80%	0.00%	0.00%	0.00%	45.80%	35.50%	7.30%	28.20%	7.10%	3.10%	0.00%	45.70%	7.70%	0.80%	0.00%
0083	40.27%	0.00%	0.00%	3.91%	44.18%	43.60%	10.43%	33.16%	0.00%	0.00%	2.52%	46.12%	9.70%	0.00%	0.00%
0085	21.34%	0.00%	0.00%	0.00%	21.34%	74.49%	34.86%	39.64%	0.00%	0.00%	0.00%	74.49%	3.91%	0.00%	0.26%
0086	15.51%	0.00%	0.00%	0.85%	16.37%	80.71%	43.80%	36.91%	0.00%	0.00%	0.00%	80.71%	4.96%	0.00%	0.00%
0087	48.51%	1.80%	10.00%	0.00%	60.31%	27.69%	NR	NR	0.03%	3.79%	0.00%	31.51%	0.22%	0.00%	7.96%
0096	45.34%	1.32%	3.85%	0.00%	50.50%	39.19%	14.52%	24.68%	3.79%	3.77%	1.90%	48.66%	0.22%	0.00%	0.00%
0098	58.37%	2.28%	0.00%	0.00%	60.65%	21.63%	NR	NR	0.85%	0.00%	13.89%	36.37%	2.97%	0.00%	0.00%
0104	29.33%	0.00%	6.07%	0.00%	35.39%	49.21%	25.85%	25.43%	0.00%	6.64%	0.00%	55.85%	6.68%	0.00%	0.00%
0106	33.84%	1.04%	0.00%	0.00%	34.88%	55.55%	10.83%	44.73%	0.00%	0.00%	0.00%	55.55%	9.57%	0.00%	0.00%
0107	40.65%	3.26%	5.00%	0.75%	49.66%	41.67%	NR	NR	3.03%	0.24%	0.00%	44.94%	5.40%	0.00%	0.00%

TABLE F-5. PERS INVESTMENTS: INVESTMENT DISTRIBUTION BY MAJOR ASSET CLASS (AS A % OF THE PORTFOLIO)—Continued

SYSID	DSTOCK	REALEQ	INTLEQ	OTHREQ	TOTLEQ	DBONDS	CBONDS	GBONDS	RLMORT	INTLFX	OTHRFX	TOTLFX	SHORT	VENTURE	OTHR
0112	38.09%	0.00%	3.07%	0.00%	41.16%	51.54%	17.50%	34.04%	0.00%	0.00%	0.00%	51.54%	6.49%	0.00%	0.00%
0113	20.86%	0.00%	2.82%	0.00%	23.69%	25.12%	15.39%	9.73%	1.58%	1.25%	0.00%	27.95%	10.12%	2.16%	36.19%
0121	42.27%	6.17%	5.49%	0.00%	53.94%	30.54%	NR	NR	6.24%	NR	0.00%	36.78%	2.62%	0.55%	6.13%
0125	44.88%	3.45%	12.26%	0.00%	60.59%	26.68%	11.92%	14.76%	3.63%	1.89%	3.04%	35.24%	1.59%	0.81%	1.77%
0134	34.19%	9.47%	14.32%	0.00%	57.99%	29.83%	NR	NR	7.23%	4.74%	0.21%	42.01%	9.23%	0.00%	0.00%
0137	53.52%	3.84%	0.92%	0.00%	58.28%	31.01%	13.98%	17.03%	6.54%	0.76%	0.00%	38.32%	0.00%	0.09%	0.22%
0138	41.15%	1.76%	0.00%	0.00%	42.91%	35.03%	3.62%	31.41%	1.30%	0.00%	0.76%	37.09%	19.00%	0.98%	0.00%
0139	49.50%	9.55%	6.60%	0.00%	65.65%	32.27%	5.48%	26.80%	0.00%	0.00%	0.00%	32.27%	2.07%	0.00%	0.00%
0144	51.04%	4.11%	13.15%	0.00%	68.30%	18.61%	7.78%	10.83%	4.73%	2.67%	0.00%	26.00%	0.00%	0.41%	5.29%
0145	15.12%	6.10%	0.00%	0.00%	21.21%	78.72%	4.31%	74.41%	0.00%	0.00%	0.00%	78.72%	0.00%	0.06%	0.00%
0147	43.25%	7.04%	12.68%	0.00%	62.97%	26.74%	NR	NR	5.19%	0.00%	0.00%	31.93%	5.11%	0.00%	0.00%
0148	46.18%	0.02%	0.00%	0.00%	46.20%	50.30%	0.00%	50.30%	0.07%	0.00%	0.00%	50.37%	3.43%	0.00%	0.00%
0151	26.77%	5.39%	4.59%	7.33%	44.08%	42.43%	24.18%	18.24%	0.00%	2.19%	0.00%	44.62%	9.96%	1.34%	0.00%
0154	40.59%	2.38%	10.19%	0.00%	53.17%	38.10%	NR	NR	0.00%	4.46%	0.00%	42.56%	2.11%	2.15%	0.00%
0161	0.00%	0.00%	0.00%	0.00%	0.00%	92.82%	35.38%	57.44%	0.00%	0.00%	0.00%	92.82%	7.18%	0.00%	0.00%
0165	NR	NR	NR	NR	63.70%	NR	NR	NR	NR	NR	NR	30.60%	0.50%	0.00%	5.20%
0168	51.25%	0.00%	0.00%	0.00%	51.25%	28.18%	17.36%	10.82%	3.04%	0.00%	7.96%	39.18%	8.01%	0.00%	1.56%
0169	55.96%	0.00%	0.00%	0.00%	55.96%	33.37%	NR	NR	4.27%	0.00%	0.00%	37.64%	5.73%	0.00%	0.65%
0170	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0174	40.43%	3.48%	0.00%	0.00%	43.91%	44.40%	15.04%	29.35%	0.33%	1.07%	0.00%	45.80%	3.11%	1.70%	7.61%
0175	0.00%	0.00%	0.00%	0.00%	0.00%	90.52%	20.18%	70.34%	3.40%	1.62%	0.00%	95.54%	4.46%	0.00%	0.00%
0178	46.92%	0.32%	6.05%	0.02%	53.31%	32.80%	13.00%	19.80%	0.00%	0.00%	0.00%	32.80%	13.95%	0.00%	0.00%
0181	35.61%	5.77%	2.53%	0.00%	43.91%	30.29%	17.22%	13.07%	3.91%	0.00%	0.00%	34.20%	17.16%	0.00%	4.72%
0182	35.71%	5.87%	2.53%	0.00%	44.11%	30.76%	17.27%	13.49%	4.18%	0.00%	0.00%	34.94%	16.25%	0.00%	4.68%
0183	35.12%	5.45%	2.40%	0.00%	42.97%	30.77%	16.86%	13.91%	3.90%	0.00%	0.00%	34.67%	18.06%	0.00%	4.30%
0185	35.46%	6.02%	2.52%	0.00%	44.00%	30.63%	17.14%	13.49%	3.71%	0.00%	0.00%	34.34%	17.14%	0.00%	4.52%
0186	44.31%	1.64%	4.99%	0.00%	50.94%	35.24%	13.91%	21.33%	0.03%	0.00%	0.00%	35.28%	13.78%	0.00%	0.00%
0191	36.70%	6.40%	0.00%	0.10%	43.20%	30.30%	10.50%	19.80%	14.20%	3.10%	0.00%	47.60%	9.20%	0.00%	0.00%
0193	39.80%	6.77%	5.98%	0.00%	52.54%	38.10%	NR	NR	0.00%	6.06%	0.00%	44.15%	0.56%	0.00%	2.75%
0195	30.80%	0.00%	0.00%	0.00%	30.80%	54.97%	38.17%	16.80%	4.94%	2.50%	0.00%	62.40%	4.70%	0.78%	1.32%
0195	30.92%	0.00%	0.00%	0.00%	30.92%	55.40%	38.34%	17.06%	4.16%	2.89%	0.00%	62.45%	4.59%	0.76%	1.30%
0195	21.08%	0.00%	0.00%	0.00%	21.08%	68.85%	41.99%	26.86%	0.00%	3.38%	0.00%	72.24%	5.31%	0.00%	1.33%
0202	48.06%	1.90%	3.70%	0.00%	53.67%	36.84%	6.95%	29.89%	3.76%	0.00%	1.32%	41.92%	1.66%	0.15%	2.60%
0204	45.48%	0.00%	5.13%	0.00%	50.61%	42.70%	3.49%	39.20%	2.04%	0.00%	0.00%	44.73%	4.65%	0.00%	0.01%
0235	52.88%	0.00%	0.00%	0.00%	52.88%	40.98%	4.34%	36.64%	0.00%	0.37%	0.36%	41.71%	5.41%	0.00%	0.00%
0278	32.95%	6.93%	9.78%	0.00%	49.67%	22.12%	14.54%	7.58%	18.20%	4.87%	0.38%	45.57%	4.63%	0.13%	0.00%
0302	33.38%	9.85%	17.74%	0.00%	60.97%	22.95%	NR	NR	5.08%	5.93%	0.00%	33.96%	3.76%	1.28%	0.19%
0303	38.44%	2.83%	7.19%	0.00%	48.46%	47.56%	20.98%	26.58%	0.21%	0.00%	0.00%	47.77%	2.63%	0.00%	1.13%
0304	38.13%	2.94%	7.85%	0.00%	48.91%	46.37%	21.93%	24.44%	0.29%	0.00%	0.00%	46.66%	3.24%	0.00%	1.18%
0349	NR	NR	NR	NR	58.60%	31.26%	NR	NR	0.00%	0.00%	0.00%	31.26%	1.27%	0.00%	8.87%

TABLE F-5. PERS INVESTMENTS: INVESTMENT DISTRIBUTION BY MAJOR ASSET CLASS (AS A % OF THE PORTFOLIO)—Continued

SYSID	DSTOCK	REALEQ	INTLEQ	OTHREQ	TOTLEQ	DBONDS	CBONDS	GBONDS	RLMORT	INTLFX	OTHRFX	TOTLFX	SHORT	VENTURE	OTHR
0361	NR	NR	NR	NR	65.81%	NR	NR	NR	NR	NR	NR	25.28%	8.92%	0.00%	0.00%
0372	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
0373	43.40%	0.00%	0.00%	0.00%	43.40%	56.60%	9.15%	47.45%	0.00%	0.00%	0.00%	56.60%	0.00%	0.00%	0.00%
0374	40.40%	1.40%	0.00%	0.00%	41.80%	46.70%	22.90%	23.80%	7.20%	0.00%	0.10%	54.00%	4.10%	0.10%	0.00%
0375	34.98%	0.00%	13.13%	0.00%	48.11%	40.04%	13.15%	26.89%	0.00%	0.00%	0.00%	40.04%	5.40%	5.91%	0.53%
0376A	0.00%	0.00%	0.00%	0.29%	0.29%	96.42%	1.55%	94.87%	0.00%	0.00%	0.88%	97.30%	1.43%	0.00%	1.00%
0376B	0.00%	0.00%	0.00%	0.24%	0.24%	76.11%	13.59%	62.52%	0.00%	0.00%	0.86%	76.98%	13.08%	0.00%	9.70%
0376C	0.00%	0.00%	0.00%	0.29%	0.29%	79.07%	6.40%	72.67%	0.00%	0.00%	2.91%	81.98%	15.70%	0.00%	1.45%
0376D	0.00%	0.00%	0.00%	0.29%	0.29%	84.21%	12.96%	71.24%	0.00%	0.00%	2.70%	86.90%	11.42%	0.00%	1.45%
0377	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
COUNT	83	83	83	83	87	84	67	67	84	83	84	87	87	87	87
SUM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
AVG.	34.0%	2.1%	3.5%	0.2%	40.5%	46.4%	17.0%	32.8%	2.5%	1.8%	0.5%	50.9%	6.3%	0.3%	2.2%
ST. DEV.	16.3%	3.1%	4.7%	0.9%	19.2%	21.4%	12.2%	20.0%	3.6%	2.7%	1.8%	19.6%	5.0%	0.8%	5.6%