

This report is produced annually by the DoD Office of the Actuary within the Office of the Secretary of Defense (Personnel & Readiness). The unfunded accrued liability and normal cost of the military retirement system as of September 30, 2000, were calculated using methods and assumptions approved by the Department of the Defense Retirement Board of Actuaries, a statutory Board appointed by the President. The text of this report does not necessarily reflect the collective or individual views or endorsements of members of the Board and is solely the product of the professional staff members within the DoD Office of the Actuary.

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## ACTUARIAL CERTIFICATION

This report on the military retirement system as of September 30, 2000, has been prepared in accordance with generally accepted actuarial principles and practices. In preparing the report, I have relied upon information maintained by the Office of the Secretary of Defense regarding plan provisions, assets, and participants.

The valuation was performed using all actuarial assumptions and methods approved by the DoD Retirement Board of Actuaries. The decrements used in the valuation are based on actual experience under the military retirement system. It was assumed that mortality would improve during the projection period. The improvement factors were based on Social Security data (2000 Trustees' Report, Alternative II-B) since it was decided that the mortality improvement anticipated for the Social Security population would be applicable to the military population. The economic assumptions included an annual 3% rate of inflation, a 3.5% annual basic pay scale increase, and a 6.25% annual investment return.

In my opinion, the present values included in this report have been estimated on the basis of actuarial assumptions that are reasonable in the aggregate. The projections and actuarial present values included in the report reflect my best estimate of the anticipated experience under the plan.

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## SUMMARY OF SIGNIFICANT CHANGES FOR THE SEPTEMBER 30, 2000 VALUATION

### CHANGES IN ACTUARIAL ASSUMPTIONS

At its August 2000 meeting, the DoD Retirement Board of Actuaries approved the following changes for the September 30, 2000 valuation:

#### *Mortality Improvement Factors*

The Board approved new mortality improvement factors. Until this year, the Office of the Actuary had been using mortality improvement factors based on data from the Social Security Administration's 1987 Trustee's Report. The Board approved the use of factors based on data from the Social Security Administration's 2000 Trustee's Report. The new mortality improvement factors increased the full-time normal cost percent (NCP) by 0.8 percentage-points, and the part-time NCP by 0.5 percentage-points. This change led to a \$6.7 billion actuarial loss to the Fund.

#### *Permanently Disabled Death and Other Loss Rates*

The Office of the Actuary proposed and the Board accepted a new set of death and other loss rates for permanently disabled retirees. The new rates had no impact on either the full- or part-time NCP. The changes led to a \$1.5 billion loss to the Fund.

#### *Input File Corrections*

The Board approved several minor adjustments to the methodology for creating the census input file used in the valuation. These had no effect on either the full- or part-time NCP. This resulted in a \$2.5 billion gain to the Fund.

## CHANGES IN BENEFITS

During FY 2000, Congress enacted a new pay table as part of the effort to increase and re-structure military compensation. The new pay table became effective in July.

### *July 1, 2000 Pay Table*

The effect of the new pay table was to increase the part-time NCP by 0.1 percentage points. It had no impact on the full-time NCP. This produced a \$2.5 billion loss to the Fund.

# VALUATION OF THE MILITARY RETIREMENT SYSTEM

## Introduction

The military retirement system provides benefits for retirement from active duty and from the reserves, disability retirement benefits, and optional survivor coverage. A detailed description of current benefits can be found in Appendix A, and a history of the system is in Appendix B.

Public Law 98-94 (currently chapter 74 of title 10, U.S.C.) established an aggregate entry-age normal cost funding method for the military retirement system starting October 1, 1984. Under this law, DoD pays the normal cost of the system and the Treasury Department makes payments from general revenues to amortize the unfunded liability, including any gains or losses that have arisen from assumption or benefit changes, or from assumed experience differing from actual experience.

This law also established an independent three-member DoD Retirement Board of Actuaries, appointed by the President. The Board is required to review valuations of the military retirement system, to determine the method of amortizing unfunded liabilities, to report annually to the Secretary of Defense, and to report to the President and the Congress on the status of the fund at least every four years. The DoD Office of the Actuary provides all technical and administrative support to the Board.

The terms of the Board members are fifteen years and a member can be removed only for misconduct or failure to perform the duties of the office. The current Board members are John H. Grady (Chairman), Richard G. Schreitmueller, and Marsha Bera-Morris. The DoD Chief Actuary is the Executive Secretary for the Board.

Military retired pay is based on "basic pay." This is the principal element of military compensation that all members receive; but it is not analogous, for comparative purposes, to private or public sector salaries. Reasonable comparisons can be made, however, to Basic Military Compensation (BMC). BMC is received by all members and is the sum of basic pay, the quarters allowance (either cash or in kind), a subsistence allowance (either cash or in kind), and the Federal tax advantage accruing to allowances since they are not subject to Federal income tax. Consequently, comparisons of military retired pay to other pension systems should recognize the relationship to BMC rather than to basic pay only. Appendix A contains a more complete description of this topic.

## Valuation Data and Procedure

The valuation input data were extracted from files maintained at the Defense Manpower Data Center. Data on individual retirees and survivors came from official files submitted by the Defense Finance and Accounting Service (DFAS). These data files were aggregated and edited, and a very small adjustment (less than .01 percent) was made to the survivor number and net pay amount to agree with official totals supplied by DFAS. Reserve data were obtained from the Reserve Component Common Personnel Data System, the official source for all reserve strengths and statistics.

Active duty data came from files provided by the four military personnel centers, and these data were edited and adjusted by less than .1 percent to agree with official totals supplied by the Comptroller. Dollar amounts included the January 1, 2001 pay raise for active duty and reserve personnel. These totals are summarized in Table 1.

TABLE 1

INITIAL ACCOUNTING FIGURES AS OF SEPTEMBER 30, 2000

Total Active Duty Personnel + Full-Time Active Duty Reservists	1,437,240
Total Monthly Basic Pay	\$3.07 billion
Total Selected Drilling Reservists	799,804
Total Monthly Basic Pay	\$.34 billion
Total Number of Nondisability Retirees	1,606,197
Total Monthly Retired Pay	\$2.50 billion
Total Number of Disability Retirees	102,435
Total Monthly Retired Pay	\$.11 billion
Total Number of Surviving Families	253,289
Total Monthly Survivor Annuities	\$.16 billion

Population and pay projections are generated by an actuarial projection model (GORGO). For use in this model, the data on active duty personnel and drilling reservists are grouped into “cells” by age and number of years of service. Each cell contains the number and the average basic pay for personnel with that particular combination of age and length of service. Data on the retired population and surviving families are grouped into cells by age, and each cell contains the number and total net annualized retired pay or survivor annuity.

Separate data arrays are maintained in GORGO for each of the population categories listed in Table 2. These data are displayed in Appendix C.

In GORGO, these starting populations are projected year by year into the future. Each year personnel are moved from one population category to another (e.g., from active to retired, or dropped from the system altogether) by means of decrement rates such as withdrawal, nondisability retirement, temporary disability, permanent disability, transfer, death with and without survivors, etc. Basic pay scale increases are 3.5 percent per year and basic pay is also increased by individual promotion and longevity increases. Retired pay and survivor annuities are increased by cost-of-living adjustments (COLAs) of 3.0 percent per year for retirees and survivors who receive a full COLA. At the end of each year, the number of people and the amounts paid in basic pay and benefits are saved, and the population is aged. After 100 years, when none of the current active or retired personnel are left in the system, the present values of the series of future benefit payments and future basic pay outlays are determined, using the valuation interest rate of 6.25 percent per year.

There is also an option in GORGO for an “open group” projection in which new entrants are added each year to meet projected end-strengths. When no new entrants are added, the projection is said to be “closed group.” Detailed results of an open group projection of the military retirement system appear in Appendix K. Appendix L shows what these results would be if reservists were excluded.

An open group projection appears later in this text (Table 9). This projection, which shows the past and projected flow of plan assets, includes the total basic payroll over the next 100 years, the normal cost contributions, payments to amortize the unfunded liability, investment income, fund disbursements, and the fund balance. All of these items are discussed in detail throughout the text of this report.

## TABLE 2

### GORGO POPULATION CATEGORIES

1. Active duty populations and basic pay
  - a. Officers
  - b. Enlistees
2. Selected reservist populations and basic pay
  - a. Officers
  - b. Enlistees
3. Retiree populations and retired pay
  - a. Nondisabled officers (no reservists)
  - b. Nondisabled enlistees (no reservists)
  - c. Reserve officers
  - d. Reserve enlistees
  - e. Disabled officers
  - f. Disabled enlistees
4. Surviving families in a survivor benefit plan and total annuities
  - a. Retired Serviceman's Family Protection Plan
  - b. Survivor Benefit Plan
  - c. Reserve Component Survivor Benefit Plan
  - d. Death on active duty supplement to VA
  - e. Minimum income
5. Typical new-entrant cohort
  - a. Officers
  - b. Enlistees

Economic assumptions, i.e., the annual rate of inflation, the annual basic pay scale increases, and the annual valuation interest rate, were decided upon by the DoD Board of Actuaries after extensive analysis of past trends. A discussion of these trends and other considerations is contained in Appendix D.

The decrement rates and other non-economic assumptions can be categorized as follows:

1. Active duty decrement rates
2. Retiree and survivor decrement rates
3. Drilling reserve decrement rates
4. Internal computer program parameters
5. Other rates (mortality improvement)

In general, the decrement rates and GORGO parameters are based on military-specific experience. The rates and descriptions of how they were derived appear in Appendices G through J. The internal computer program parameters, dealing with such matters as the survivor benefit elections, premium deductions, and member/beneficiary age differences, are described in Appendix F.

### Assets

The assets of the military retirement fund are invested in special issue Treasury obligations bearing interest at rates determined by the Secretary of the Treasury taking into consideration current market yields for outstanding marketable U.S. obligations of comparable maturities. Currently, each security issued to the fund “mirrors” a security that has been issued to the public, i.e., it has the same maturity date and coupon rate. The special issue security that is mirrored may have been issued recently, or at any time in the past. Under current procedures adopted by Treasury, the investment manager is permitted to redeem long-term special issue securities at any time before maturity for their fair market value, which is based on the bid price for the public issue with the same maturity date and coupon rate.

For purposes of determining the unfunded liability, the assets of the fund are valued using the amortized cost method. Under this method, the yield to maturity of a security valued at any point in time is equal to the yield to maturity at the time of purchase. In the valuation of the military retirement system, the amortized cost value is referred to as the “actuarial value of assets.” The actuarial value of assets is determined by amortizing premium and discount over the life of the securities. The total investment return includes both the interest coupons received and the change in the amortized cost value during the year. The actuarial value of assets used in the determination of the unfunded liability includes the “accrued interest,” which is the amount of the next semiannual interest coupon payment that has accrued since the date of the last coupon payment. The amount of the “accrued interest” is determined by multiplying the coupon payment by the ratio of the time that

has elapsed since the last coupon payment date to the total time between coupon payments. Table 3 presents a statement of the actuarial value of assets as of September 30, 2000; Table 4 presents a statement of changes in the actuarial value of assets.

In an open group projection of a retirement system where the total number of employees is held constant, the number of retirees and survivors on the roll at year end, as well as the number withdrawing, retiring, dying, etc., each year, eventually levels out. When this occurs, the population is said to be “stationary.” In the projection in Table 9, downsizing is included through the end of FY07. After that, the force size is held constant each year. However, the assumption of continuous mortality improvement results in a small increase in the retired population each year, so that the retired population is nearly, but not completely, stationary.

When a population becomes stationary, the fund disbursements increase each year at the same rate as total payroll, which is 3.5 percent per year. If the method of funding the system is theoretically sound, the value of the assets in the fund will also increase at this same rate, and thus will become a level percentage of payroll. Otherwise, the fund would either increase indefinitely as a percent of payroll, or decrease until it was zero.

A major portion of the investment income must be used to generate the 3.5 percent fund increases and cannot be used to pay benefits. For example, in the year 2040, the normal cost payment is \$45 billion, the investment income is \$139 billion, and fund disbursements are \$107 billion. The beginning-of-year fund balance is \$2,257 billion. The two sources of fund income will approximately equal benefit payments plus 3.5 percent of the beginning-of-the-year fund balance. That is, \$45 billion plus \$139 billion is about equal to \$107 billion plus \$79 billion ( $\$2,257 \text{ billion} \times .035$ )—the amount that would be required for the fund to grow by 3.5 percent during the year. The lack of equality is largely due to mortality improvement, which keeps the retired population from being stationary.

Under generally accepted accounting principles, private sector plans must also provide a “Statement of Net Assets Available for Benefits,” where the assets are valued at fair market value. This statement is included in Appendix M.

### Normal Cost

The aggregate entry-age normal cost is the level percentage of basic pay that must be contributed over the entire active career of a typical group of new entrants to pay for all the future retirement benefits of that group. It is determined by using the new-entrant cohort as the starting population in a GORGO projection. Their basic pay and benefits are projected over the next 100 years, and then discounted back to the present to find the normal cost percentage. Mathematically, a normal cost percentage is developed by dividing the present value of future benefits for the entire cohort by the present value of future basic pay.



TABLE 3

DEPARTMENT OF DEFENSE  
MILITARY RETIREMENT FUND  
STATEMENT OF ACTUARIAL VALUE OF ASSETS  
(\$ in thousands)

	For the Plan Year Ended September 30, 2000
Assets	
Investments, at book value	
U.S. Government securities <sup>1</sup>	\$157,829,955
Accounts receivable	
Accrued interest <sup>2</sup>	\$4,798,685
Due from military retirees or their survivors	\$25,221
Cash	<u>\$20,640</u>
Actuarial value of assets	\$162,674,501

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<sup>1</sup> Book value is determined by amortizing premium and discount over the life of the securities using the effective interest method.

<sup>2</sup> Includes accrued interest receivable and interest purchased.

TABLE 4  
DEPARTMENT OF DEFENSE  
MILITARY RETIREMENT FUND  
STATEMENT OF CHANGES IN ACTUARIAL VALUE OF ASSETS  
(\$ in thousands)

	For the Plan Year Ended September 30, 2000
Actuarial value of assets at beginning of plan year	\$156,031,434
Investment income	
Interest	\$14,329,434
Net appreciation (depreciation) in book value of investments <sup>1</sup>	\$(1,582,804)
Contributions	
From Services	\$11,402,375
Appropriation to amortize the unfunded liability	\$15,302,000
Total additions	\$39,451,006
Benefits paid to participants	\$32,807,835
Actuarial value of assets	\$162,674,604

<sup>1</sup> Investments bought, sold and held during the plan year ended September 30, 2000 appreciated (depreciated) in value by \$(1,582,804) as follows:

Amortized discount	\$ 188,151
Amortized premium	\$(1,770,955)
Gain (loss) on sale	<u>\$0</u>
	\$(1,582,804)

As described in Appendix A, there are three distinct nondisability benefit formulas (relevant to three distinct populations) within the military retirement system. Retirement benefits are based on final basic pay (FINAL PAY) for personnel entering the Armed Services before September 8, 1980, and are based on the average of the highest 36 months (HI-3) for those entering on or after this date. Additionally, members first entering the Armed Services on or after August 1, 1986 who elect the \$30,000 bonus are subject to a reduction (REDUX) if they retire with less than 30 years of service.

Public Law 99-661, enacted in November 1986, mandated that two separate normal cost percentages (NCPs) be used for the valuation of the military retirement system. One NCP is for active-duty personnel and full-time reservists (full-time) and one is for part-time reservists (part-time). Full-time and part-time NCPs are calculated for each of the three separate benefit formulas. The FY01 NCPs are summarized below:

<u>Benefit Formula</u>	<u>Full-Time</u>	<u>Part-Time</u>
FINAL PAY	35.1%	15.1%
HI-3	31.7	14.4
REDUX	29.6	14.4

Table 5 shows the expected percentage of the total basic payroll that will be paid during the fiscal year to all active duty personnel who entered military service since the beginning of fiscal year t-k, where k can take on any value from 0 to 29. For example, during FY01 (t = 2001), 3 percent of the expected basic payroll will be paid to personnel entering service in that fiscal year (k = 0), and 92 percent of the expected basic payroll will be paid to persons entering service since the beginning of FY81 (k = 20). The data and methodology used to derive this table are described in Appendix E.

Thus, 92 percent of the basic payroll for FY01 is expected to be paid to personnel entering service since the beginning of FY81, while the remaining 8 percent of the expected basic payroll for FY01 will be for personnel whose retirement benefits are based on FINAL PAY<sup>2</sup>. Of the 92 percent associated with post-FY80 new entrants, 74.5 percent is expected to be

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<sup>2</sup> Actually, personnel hired before September 8, 1980 have their retirement benefits based on FINAL PAY, but for purposes of determining the weights in the weighted normal cost percentage, we use personnel hired before October 1, 1980.

TABLE 5

PERCENTAGE OF TOTAL BASIC PAYROLL PAID DURING FISCAL YEAR  $t$  TO ALL ACTIVE  
DUTY PERSONNEL ENTERING SERVICE DURING OR AFTER SPECIFIC YEAR OF ENTRY

<u>Year of Entry</u>	<u>Percentage</u>
t	3%
t-1 or later	10
t-2 or later	18
t-3 or later	26
t-4 or later	32
t-5 or later	38
t-6 or later	43
t-7 or later	47
t-8 or later	52
t-9 or later	56
t-10 or later	60
t-11 or later	63
t-12 or later	67
t-13 or later	70
t-14 or later	74
t-15 or later	77
t-16 or later	80
t-17 or later	83
t-18 or later	86
t-19 or later	89
t-20 or later	92
t-21 or later	94
t-22 or later	95
t-23 or later	96
t-24 or later	97
t-25 or later	98
t-26 or later	98
t-27 or later	99
t-28 or later	99
t-29 or later	100

Based on basic payroll data for Fiscal Years 1987 to 1991, as described in Appendix E.

attributable to the REDUX members (entering on or after August 1, 1986) and the remaining 17.5 percent to the HI-3 members. The 74.5 percent was derived by interpolating between the factors for FY86 and FY87 years of entry. The FY01 weighted aggregate full and part-time normal cost percentages are obtained by weighting their respective normal cost percentages for the REDUX formula by 74.5 percent, the normal cost percentages for the HI-3 formula by 17.5 percent, and the normal cost percentages for the FINAL PAY formula by 8.0 percent. The resulting weighted aggregate full-time normal cost percentage is 30.4 percent, and the weighted aggregate part-time normal cost percentage is 14.4 percent. Due to Federal budget deadlines, the two normal cost percentages used to determine the actual contributions to the fund must be established a year in advance of implementation and may vary from those actually derived in a valuation.

Table 6 summarizes the components of the FY01 normal cost percentages.

TABLE 6				
NORMAL COST AS A PERCENT OF BASIC PAY				
<u>FULL-TIME</u>	<u>FINAL PAY</u>	<u>HI-3</u>	<u>REDUX</u>	<u>FY01 Weighted</u>
Nondisability benefits	33.3%	30.1%	28.0%	28.8%
Disability benefits	1.1	1.0	1.0	1.0
Survivor benefits	<u>0.6</u>	<u>0.6</u>	<u>0.6</u>	<u>0.6</u>
Total	35.1%	31.7%	29.6%	30.4%
 <u>PART-TIME</u>				
Nondisability benefits	14.1%	13.4%	13.4%	13.4%
Disability benefits	0.0	0.0	0.0	0.0
Survivor benefits	<u>1.1</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>
Total	15.1%	14.4%	14.4%	14.4%
Note that columns may not add exactly due to rounding.				

As can be determined from this table, about 94 percent of the full-time normal cost stems from nondisability retirement. Based on current decrement rates, 18 percent of a typical group of new entrants attain 20 years of active duty service and become eligible for nondisability retirement from active duty. Specifically, 46 percent of new officers and 16 percent of new enlistees attain 20 years of active duty service. It should be noted that some military personnel who begin their careers on active duty move to the reserves and retire from there.

Table 10 lists in the normal cost columns the projected weighted aggregate full-time and part-time normal cost percentages under current law for each year in the future. By 2012 both the full-time and part-time weighted aggregate percentages drop to the level of the REDUX normal cost percentages (full-time 29.6 percent; part-time 14.4 percent) since by that time virtually all non-retired personnel will have benefits based on the new formula.

#### Amortization of Unfunded Liability

Under the aggregate entry-age normal cost funding method, which was established under PL 98-94 and became effective on October 1, 1984, normal cost contributions began to be made by DoD on behalf of all military personnel. Since normal cost contributions had not been made for service prior to this date, there was an initial unfunded accrued liability, or “initial unfunded liability,” as of September 30, 1984 of \$528.7 billion. If this amount had been deposited in the retirement fund on September 30, 1984, then it, together with the future normal cost payments to be made on behalf of all active duty personnel and drilling reservists over the balance of their active careers, would have been sufficient to provide all expected retirement and survivor benefits for those in the system on that date.

The Board of Actuaries originally determined that the initial unfunded accrued liability of the system (\$528.7 billion) should be amortized with payments equal to 33 percent of the second preceding fiscal year’s basic payroll. It was originally projected that this method would amortize the initial unfunded liability over 60 years. However, economic assumption changes extended the amortization period well beyond 60 years. As a result, the Board revised the amortization method of the original unfunded liability in such a way that the amortization would have been completed in 2043. In more recent years, however, it was determined that the Military Retirement Fund was projected to have a negative balance for several years before becoming positive again. The Board decided in 1996 to shorten the amortization period to 50 years. The initial unfunded liability is now expected to be fully amortized in 2033.

Changes in the unfunded liability can also arise because of modifications in benefit formulas, changes in actuarial assumptions, and deviations in actual experience from expected experience (gains and losses). The Board approved a method to amortize these changes over 30

years by payments that increase in absolute value at the same rate as the annual long-term basic pay scale assumption (currently 3.5 percent). A detailed description of the methods used to calculate the payment streams for changes in unfunded liability is in Appendix N.

#### Unfunded Accrued Liability as of September 30, 2000

Table 7 summarizes the calculation of the unfunded accrued liability as of September 30, 2000. The present value of future benefits is obtained by projecting future benefits for the total covered population (closed group with no new entrants) as of September 30, 2000 and discounting these benefits back to the present. The GORGO projection model projects benefits for the current active and retired populations over the rest of their lifetimes. The initial retirement benefits for military personnel are based on their total projected service at retirement, the applicable benefit formula, and projected basic pay increases. Subsequent retirement benefits include projected cost-of-living adjustments and the age 62 adjustment for those retiring under the REDUX formula.

The present value of future normal cost contributions is obtained by (1) using GORGO to project future yearly full-time and part-time basic pay for the September 30, 2000 covered population, (2) multiplying the pay by projected full-time and part-time weighted aggregate entry-age normal cost percentages (NCPs), and (3) discounting the resultant normal costs back to September 30, 2000. For this closed group, the relative percentages of basic pay subject to the three separate benefit formulas will change over time as fewer and fewer members are covered under the final pay formula. The *weighted* full and part-time NCPs that are multiplied against the future full or part-time pay in each year reflect expected changing percentages of pay going to members covered by the three benefit formulas. This weighted procedure is roughly equivalent in the aggregate to projecting separately the pay of each of the six groups of active duty and selected reserve members and multiplying it by the individual group's NCP.

The weighted aggregate entry-age normal cost percentages for FY01 are 30.4 percent full-time and 14.4 percent part-time. Federal budget deadlines require the establishment of normal cost percentages a year in advance of the valuation. Consequently, the percentages actually implemented in a fiscal year may vary from those derived in the valuation. These differences, which are small unless major actuarial assumptions are changed, are reflected in the unfunded liability by using the implemented normal cost in the first year of the projection.

Deducting the present value of normal costs and the amortized cost value of the fund from the present value of benefits leaves an unfunded liability of \$519.9 billion as of September 30, 2000. This was 0.7 percent greater than the expected unfunded liability of \$516.2 billion. The expected unfunded liability is what the unfunded liability would have been if all actuarial assumptions had been realized and all benefit formulas had remained unchanged. The fact that the actual unfunded liability is greater than expected means that there was a total FY00 loss of \$3.7 billion (\$519.9 billion minus \$516.2 billion).

The components of this loss are outlined in Table 8. The total experience gain is divided into three segments: the gain due to the difference between the actual interest rate earned by the fund and the assumed interest rate; the net gain due to the actual COLA and salary increases being different from those assumed; and the gain due to differences between all noneconomic assumptions and the actual experience for the year. See the Summary of Significant Changes for the September 30, 2000 Valuation for a more detailed breakdown of the gains and losses outlined in Table 8.



TABLE 7  
MILITARY RETIREMENT SYSTEM  
ACTUARIAL STATUS INFORMATION  
AS OF SEPTEMBER 30, 2000  
(\$ in billions)

		For the Plan Year Ended September 30, 2000
1.	Present value of future benefits	
	a.    Annuitants now on roll	\$459.8
	b.    Nonretired reservists	\$52.2
	c.    Active duty personnel <sup>1</sup>	<u>\$267.0</u>
	TOTAL	\$779.0
2.	Present value of future employer normal cost contributions	\$96.4
3.	Actuarial accrued liability	\$682.6
4.	Actuarial value of assets <sup>2</sup>	\$162.7
5.	Unfunded accrued liability	\$519.9
6.	Normal cost percentage (NCP) <sup>3</sup> to be applied to basic pay in the following fiscal year	
	a. Full-time	30.4%
	b. Part-time	14.4%

Basic pay is only a portion of active duty military compensation. See the summary of the military retirement system for details.

<sup>1</sup> The future benefits of active duty personnel expected to retire as reservists are counted on line 1.b.

<sup>2</sup> The actuarial value of assets is determined using the amortized cost method of valuation.

<sup>3</sup> Due to the need to establish the normal cost percentages a year in advance of implementation (Federal budget deadlines), the percentages actually used in a fiscal year may vary from the ones derived in the valuation and displayed here.

TABLE 8

FY00 CHANGE IN UNFUNDED LIABILITY  
(\$ in billions)

1.	Actual unfunded accrued liability 9/30/00	\$519.9	
2.	Expected unfunded accrued liability 9/30/00	\$516.2	
3.	Total loss	(\$3.7)	(0.7%)
	a. Total experience gain	\$4.5	(0.9%)
	Interest assumption	\$2.7	(0.5%)
	COLA & salary assumptions	(\$2.6)	(0.5%)
	Noneconomic assumptions	\$4.4	(0.9%)
	b. Total benefit change loss	(\$2.5)	(0.5%)
	c. Total assumption change loss	(\$5.7)	(1.1%)
	New mortality improvement	(\$6.7)	(1.3%)
	New decrement rates	(\$1.5)	(0.3%)
	Input file changes	\$2.5	(0.5%)

(Percentages shown are ratios of absolute values of each gain or loss component to the expected unfunded accrued liability.)

These changes in unfunded liability were used to calculate the October 1, 2001 unfunded liability payment. The total payment was determined to be \$17,047 million. This total payment includes (1) a payment of \$43,571 million to amortize the original unfunded liability, less (2) an amount of \$9,862 million to amortize changes in actuarial assumptions, plus (3) an amount of \$472 million to amortize benefit changes, less (4) an amount of \$17,134 million to amortize total combined experience gains and losses through FY00. The detailed calculations of these payment components are located in Appendix N. Tables 11 and 12 show the projection of these individual payment and liability streams. Tables 9 and 10 display all projected transactions to the fund.

Other measures of a retirement system's liabilities (required for private sector plans under generally accepted accounting principles) are the "Accumulated Plan Benefits" and the market value of assets. These items and explanatory notes are included in Appendix M.

TABLE 9

**MILITARY RETIREMENT SYSTEM**  
**PAST AND PROJECTED FLOW OF PLAN ASSETS**  
(In Billions of Dollars and as a Proportion of Payroll)

<u>Fiscal Year</u>	<u>Basic Payroll</u> <sup>2</sup>	<u>Normal Cost Payments</u> <sup>3</sup>		<u>Amortization of Unfunded Liability</u>		<u>Investment Income</u>		<u>Fund Disbursements</u> <sup>4</sup>		<u>Fund Balance End of Year</u> <sup>5</sup>	
1985	\$33.5	\$17.0	(.507)	\$9.5	(.284)	\$1.1	(.033)	\$15.8	(.472)	\$11.8	(.352)
1986	\$35.4	\$17.4	(.492)	\$10.5	(.297)	\$2.5	(.071)	\$17.6	(.497)	\$24.6	(.695)
1987	\$36.4	\$18.3	(.503)	\$10.5	(.288)	\$3.6	(.099)	\$18.1	(.497)	\$38.9	(1.069)
1988	\$37.3	\$18.4	(.493)	\$10.3	(.276)	\$5.1	(.137)	\$17.5	(.468)	\$53.4	(1.432)
1989	\$38.6	\$18.5	(.479)	\$9.8	(.254)	\$6.1	(.158)	\$20.2	(.523)	\$67.6	(1.751)
1990	\$39.8	\$16.3	(.410)	\$10.6	(.266)	\$7.3	(.183)	\$21.5	(.540)	\$80.4	(2.020)
1991	\$42.3	\$17.2	(.407)	\$10.8	(.255)	\$8.5	(.201)	\$23.1	(.546)	\$93.7	(2.215)
1992	\$41.1	\$16.3	(.397)	\$11.2	(.272)	\$9.4	(.228)	\$24.5	(.597)	\$106.1	(2.585)
1993	\$38.9	\$13.2	(.339)	\$12.3	(.315)	\$10.0	(.257)	\$25.7	(.661)	\$115.9	(2.979)
1994	\$38.3	\$12.8	(.335)	\$11.9	(.311)	\$10.3	(.270)	\$26.7	(.698)	\$124.2	(3.246)
1995	\$37.1	\$12.2	(.330)	\$11.5	(.309)	\$10.9	(.293)	\$27.8	(.749)	\$131.0	(3.528)
1996	\$36.7	\$11.2	(.305)	\$10.7	(.292)	\$11.2	(.305)	\$28.8	(.785)	\$135.3	(3.687)
1997	\$36.8	\$11.1	(.302)	\$15.2	(.413)	\$11.9	(.323)	\$30.2	(.821)	\$143.3	(3.894)
1998	\$37.1	\$10.5	(.283)	\$15.1	(.407)	\$12.2	(.329)	\$31.1	(.838)	\$149.9	(4.040)
1999	\$37.6	\$10.5	(.279)	\$15.3	(.406)	\$12.3	(.326)	\$31.9	(.848)	\$156.0	(4.151)
2000	\$39.0	\$11.4	(.292)	\$16.1	(.413)	\$12.7	(.325)	\$32.1	(.822)	\$162.7	(4.168)

TABLE 9 (cont.)

**MILITARY RETIREMENT SYSTEM**  
**PAST AND PROJECTED FLOW OF PLAN ASSETS<sup>1</sup>**  
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Basic Payroll <sup>2</sup>	Normal Cost Payments <sup>3</sup>	Amortization of Unfunded Liability	Investment Income	Fund Disbursements <sup>4</sup>	Fund Balance End of Year <sup>5</sup>
2001	\$40.9	\$11.5 (0.280)	\$16.1 (0.393)	\$10.5 (0.256)	\$34.1 (0.833)	\$166.6 (4.071)
2002	\$42.8	\$12.3 (0.287)	\$17.0 (0.398)	\$10.8 (0.251)	\$35.3 (0.824)	\$171.4 (4.006)
2003	\$44.4	\$12.7 (0.286)	\$17.6 (0.397)	\$11.1 (0.249)	\$36.4 (0.819)	\$176.5 (3.973)
2004	\$46.0	\$13.1 (0.285)	\$18.3 (0.397)	\$11.4 (0.248)	\$37.5 (0.815)	\$181.8 (3.947)
2005	\$47.7	\$13.6 (0.284)	\$18.9 (0.396)	\$11.8 (0.246)	\$38.7 (0.811)	\$187.3 (3.925)
2006	\$49.4	\$14.0 (0.284)	\$19.6 (0.396)	\$12.1 (0.245)	\$40.0 (0.808)	\$193.0 (3.905)
2007	\$51.2	\$14.5 (0.283)	\$20.2 (0.395)	\$12.5 (0.244)	\$41.2 (0.805)	\$199.0 (3.887)
2008	\$53.1	\$15.0 (0.282)	\$21.0 (0.395)	\$12.9 (0.243)	\$42.4 (0.799)	\$205.4 (3.871)
2009	\$55.0	\$15.5 (0.282)	\$21.7 (0.394)	\$13.3 (0.242)	\$43.6 (0.792)	\$212.4 (3.859)
2010	\$57.1	\$16.1 (0.282)	\$22.4 (0.393)	\$13.8 (0.241)	\$44.9 (0.787)	\$219.8 (3.849)
2011	\$59.0	\$16.6 (0.281)	\$23.2 (0.394)	\$14.3 (0.242)	\$46.2 (0.783)	\$227.6 (3.856)
2012	\$61.0	\$17.2 (0.281)	\$24.0 (0.394)	\$14.8 (0.242)	\$47.6 (0.779)	\$236.1 (3.867)
2013	\$63.1	\$17.8 (0.281)	\$24.9 (0.394)	\$15.3 (0.243)	\$48.9 (0.775)	\$245.1 (3.883)
2014	\$65.3	\$18.4 (0.281)	\$25.8 (0.394)	\$15.9 (0.244)	\$50.2 (0.769)	\$255.0 (3.903)
2015	\$67.6	\$19.0 (0.281)	\$26.7 (0.394)	\$16.6 (0.245)	\$51.5 (0.762)	\$265.7 (3.928)
2016	\$70.1	\$19.7 (0.281)	\$27.6 (0.394)	\$17.3 (0.247)	\$52.9 (0.755)	\$277.4 (3.959)
2017	\$72.5	\$20.4 (0.281)	\$28.6 (0.394)	\$18.1 (0.249)	\$54.3 (0.748)	\$290.1 (4.000)
2018	\$75.1	\$21.1 (0.281)	\$29.6 (0.394)	\$18.9 (0.252)	\$55.7 (0.741)	\$304.0 (4.048)
2019	\$77.8	\$21.9 (0.281)	\$30.6 (0.393)	\$19.8 (0.255)	\$57.1 (0.734)	\$319.2 (4.102)
2020	\$80.6	\$22.7 (0.281)	\$31.7 (0.393)	\$20.8 (0.258)	\$58.6 (0.727)	\$335.7 (4.164)
2021	\$83.5	\$23.5 (0.281)	\$32.8 (0.393)	\$21.9 (0.262)	\$60.1 (0.720)	\$353.7 (4.236)
2022	\$86.5	\$24.3 (0.281)	\$33.9 (0.392)	\$23.1 (0.267)	\$61.7 (0.714)	\$373.2 (4.316)
2023	\$89.6	\$25.2 (0.281)	\$63.8 (0.713)	\$26.1 (0.292)	\$63.4 (0.708)	\$424.9 (4.745)
2024	\$92.8	\$26.1 (0.281)	\$93.9 (1.012)	\$31.2 (0.336)	\$65.1 (0.702)	\$511.0 (5.509)
2025	\$96.0	\$27.0 (0.281)	\$97.2 (1.012)	\$36.8 (0.383)	\$66.9 (0.697)	\$605.0 (6.299)
2026	\$99.5	\$28.0 (0.281)	\$100.6 (1.011)	\$42.8 (0.431)	\$68.8 (0.691)	\$707.5 (7.114)
2027	\$103.0	\$28.9 (0.281)	\$104.1 (1.011)	\$49.4 (0.480)	\$70.7 (0.687)	\$819.3 (7.957)
2028	\$106.6	\$30.0 (0.281)	\$107.7 (1.011)	\$56.6 (0.531)	\$72.8 (0.683)	\$940.8 (8.826)
2029	\$110.3	\$31.0 (0.281)	\$111.5 (1.011)	\$64.4 (0.584)	\$75.0 (0.679)	\$1,072.7 (9.722)
2030	\$114.2	\$32.1 (0.281)	\$115.1 (1.007)	\$72.8 (0.638)	\$77.4 (0.677)	\$1,215.4 (10.642)
2031	\$118.2	\$33.2 (0.281)	\$118.2 (1.000)	\$81.9 (0.693)	\$79.8 (0.676)	\$1,368.8 (11.581)
2032	\$122.3	\$34.4 (0.281)	\$122.3 (1.000)	\$91.7 (0.750)	\$82.4 (0.674)	\$1,534.7 (12.548)
2033	\$126.6	\$35.6 (0.281)	\$126.6 (1.000)	\$102.3 (0.808)	\$85.1 (0.672)	\$1,714.1 (13.544)
2034	\$131.0	\$36.8 (0.281)	\$131.0 (1.000)	\$113.7 (0.868)	\$87.9 (0.671)	\$1,907.7 (14.568)
2035	\$135.5	\$38.1 (0.281)	\$0.0 0.000	\$117.6 (0.868)	\$90.7 (0.670)	\$1,972.7 (14.559)
2036	\$140.2	\$39.4 (0.281)	\$0.0 0.000	\$121.6 (0.867)	\$93.7 (0.668)	\$2,040.1 (14.550)
2037	\$145.1	\$40.8 (0.281)	\$0.0 0.000	\$125.8 (0.867)	\$96.7 (0.667)	\$2,109.9 (14.543)
2038	\$150.1	\$42.2 (0.281)	\$0.0 0.000	\$130.1 (0.866)	\$99.9 (0.665)	\$2,182.3 (14.537)
2039	\$155.3	\$43.7 (0.281)	\$0.0 0.000	\$134.5 (0.866)	\$103.1 (0.664)	\$2,257.3 (14.531)
2040	\$160.8	\$45.2 (0.281)	\$0.0 0.000	\$139.2 (0.866)	\$106.5 (0.663)	\$2,335.2 (14.525)
2041	\$166.4	\$46.8 (0.281)	\$0.0 0.000	\$144.0 (0.865)	\$110.0 (0.661)	\$2,415.9 (14.520)
2042	\$172.2	\$48.4 (0.281)	\$0.0 0.000	\$149.0 (0.865)	\$113.7 (0.660)	\$2,499.5 (14.516)
2043	\$178.2	\$50.1 (0.281)	\$0.0 0.000	\$154.1 (0.865)	\$117.5 (0.659)	\$2,586.3 (14.512)
2044	\$184.5	\$51.8 (0.281)	\$0.0 0.000	\$159.5 (0.864)	\$121.4 (0.658)	\$2,676.2 (14.508)
2045	\$190.9	\$53.7 (0.281)	\$0.0 0.000	\$165.0 (0.864)	\$125.5 (0.657)	\$2,769.4 (14.504)
2046	\$197.6	\$55.6 (0.281)	\$0.0 0.000	\$170.8 (0.864)	\$129.7 (0.656)	\$2,866.0 (14.502)
2047	\$204.6	\$57.5 (0.281)	\$0.0 0.000	\$176.7 (0.864)	\$134.1 (0.655)	\$2,966.2 (14.500)
2048	\$211.8	\$59.5 (0.281)	\$0.0 0.000	\$182.9 (0.864)	\$138.6 (0.655)	\$3,070.0 (14.498)
2049	\$219.2	\$61.6 (0.281)	\$0.0 0.000	\$189.3 (0.864)	\$143.3 (0.654)	\$3,177.6 (14.497)
2050	\$226.9	\$63.8 (0.281)	\$0.0 0.000	\$196.0 (0.864)	\$148.2 (0.653)	\$3,289.2 (14.497)

TABLE 9 (cont.)

**MILITARY RETIREMENT SYSTEM**  
**PAST AND PROJECTED FLOW OF PLAN ASSETS<sup>1</sup>**  
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Basic Payroll <sup>2</sup>	Normal Cost Payments <sup>3</sup>	Amortization of Unfunded Liability	Investment Income	Fund Disbursements <sup>4</sup>	Fund Balance End of Year <sup>5</sup>
2051	\$234.9	\$66.0 (0.281)	\$0.0 0.000	\$202.8 (0.864)	\$153.3 (0.653)	\$3,404.7 (14.497)
2052	\$243.1	\$68.3 (0.281)	\$0.0 0.000	\$210.0 (0.864)	\$158.6 (0.653)	\$3,524.4 (14.498)
2053	\$251.6	\$70.7 (0.281)	\$0.0 0.000	\$217.4 (0.864)	\$164.1 (0.652)	\$3,648.3 (14.500)
2054	\$260.4	\$73.2 (0.281)	\$0.0 0.000	\$225.0 (0.864)	\$169.9 (0.652)	\$3,776.6 (14.501)
2055	\$269.6	\$75.8 (0.281)	\$0.0 0.000	\$232.9 (0.864)	\$175.9 (0.653)	\$3,909.4 (14.503)
2056	\$279.0	\$78.4 (0.281)	\$0.0 0.000	\$241.1 (0.864)	\$182.1 (0.653)	\$4,046.8 (14.505)
2057	\$288.8	\$81.2 (0.281)	\$0.0 0.000	\$249.6 (0.864)	\$188.7 (0.653)	\$4,188.9 (14.506)
2058	\$298.9	\$84.0 (0.281)	\$0.0 0.000	\$258.3 (0.864)	\$195.4 (0.654)	\$4,335.8 (14.507)
2059	\$309.3	\$86.9 (0.281)	\$0.0 0.000	\$267.4 (0.864)	\$202.5 (0.655)	\$4,487.6 (14.508)
2060	\$320.1	\$90.0 (0.281)	\$0.0 0.000	\$276.7 (0.864)	\$209.9 (0.656)	\$4,644.4 (14.507)
2061	\$331.3	\$93.1 (0.281)	\$0.0 0.000	\$286.4 (0.864)	\$217.5 (0.657)	\$4,806.4 (14.506)
2062	\$342.9	\$96.4 (0.281)	\$0.0 0.000	\$296.4 (0.864)	\$225.5 (0.658)	\$4,973.6 (14.504)
2063	\$354.9	\$99.8 (0.281)	\$0.0 0.000	\$306.7 (0.864)	\$233.8 (0.659)	\$5,146.3 (14.500)
2064	\$367.3	\$103.2 (0.281)	\$0.0 0.000	\$317.3 (0.864)	\$242.4 (0.660)	\$5,324.5 (14.495)
2065	\$380.2	\$106.9 (0.281)	\$0.0 0.000	\$328.3 (0.863)	\$251.3 (0.661)	\$5,508.3 (14.489)
2066	\$393.5	\$110.6 (0.281)	\$0.0 0.000	\$339.6 (0.863)	\$260.5 (0.662)	\$5,698.0 (14.482)
2067	\$407.2	\$114.5 (0.281)	\$0.0 0.000	\$351.3 (0.863)	\$270.1 (0.663)	\$5,893.6 (14.472)
2068	\$421.5	\$118.5 (0.281)	\$0.0 0.000	\$363.3 (0.862)	\$280.1 (0.664)	\$6,095.3 (14.462)
2069	\$436.2	\$122.6 (0.281)	\$0.0 0.000	\$375.7 (0.861)	\$290.3 (0.666)	\$6,303.3 (14.450)
2070	\$451.5	\$126.9 (0.281)	\$0.0 0.000	\$388.5 (0.861)	\$301.0 (0.667)	\$6,517.7 (14.436)
2071	\$467.3	\$131.4 (0.281)	\$0.0 0.000	\$401.7 (0.860)	\$312.0 (0.668)	\$6,738.8 (14.421)
2072	\$483.7	\$135.9 (0.281)	\$0.0 0.000	\$415.3 (0.859)	\$323.4 (0.669)	\$6,966.6 (14.404)
2073	\$500.6	\$140.7 (0.281)	\$0.0 0.000	\$429.3 (0.858)	\$335.2 (0.670)	\$7,201.5 (14.386)
2074	\$518.1	\$145.6 (0.281)	\$0.0 0.000	\$443.8 (0.857)	\$347.4 (0.671)	\$7,443.5 (14.366)
2075	\$536.3	\$150.7 (0.281)	\$0.0 0.000	\$458.7 (0.855)	\$360.1 (0.671)	\$7,692.8 (14.345)
2076	\$555.1	\$156.0 (0.281)	\$0.0 0.000	\$474.0 (0.854)	\$373.1 (0.672)	\$7,949.7 (14.322)
2077	\$574.5	\$161.5 (0.281)	\$0.0 0.000	\$489.8 (0.853)	\$386.7 (0.673)	\$8,214.4 (14.298)
2078	\$594.6	\$167.1 (0.281)	\$0.0 0.000	\$506.1 (0.851)	\$400.7 (0.674)	\$8,486.9 (14.273)
2079	\$615.4	\$173.0 (0.281)	\$0.0 0.000	\$522.9 (0.850)	\$415.2 (0.675)	\$8,767.5 (14.246)
2080	\$637.0	\$179.0 (0.281)	\$0.0 0.000	\$540.1 (0.848)	\$430.2 (0.675)	\$9,056.5 (14.218)
2081	\$659.3	\$185.3 (0.281)	\$0.0 0.000	\$557.9 (0.846)	\$445.8 (0.676)	\$9,353.8 (14.188)
2082	\$682.4	\$191.8 (0.281)	\$0.0 0.000	\$576.2 (0.844)	\$462.0 (0.677)	\$9,659.9 (14.156)
2083	\$706.3	\$198.5 (0.281)	\$0.0 0.000	\$595.0 (0.842)	\$478.7 (0.678)	\$9,974.7 (14.123)
2084	\$731.0	\$205.5 (0.281)	\$0.0 0.000	\$614.3 (0.840)	\$496.0 (0.679)	\$10,298.5 (14.089)
2085	\$756.6	\$212.7 (0.281)	\$0.0 0.000	\$634.2 (0.838)	\$513.9 (0.679)	\$10,631.5 (14.053)
2086	\$783.0	\$220.1 (0.281)	\$0.0 0.000	\$654.7 (0.836)	\$532.5 (0.680)	\$10,973.9 (14.015)
2087	\$810.4	\$227.8 (0.281)	\$0.0 0.000	\$675.7 (0.834)	\$551.7 (0.681)	\$11,325.7 (13.975)
2088	\$838.8	\$235.8 (0.281)	\$0.0 0.000	\$697.4 (0.831)	\$571.7 (0.682)	\$11,687.2 (13.933)
2089	\$868.2	\$244.0 (0.281)	\$0.0 0.000	\$719.6 (0.829)	\$592.3 (0.682)	\$12,058.5 (13.890)
2090	\$898.5	\$252.6 (0.281)	\$0.0 0.000	\$742.4 (0.826)	\$613.7 (0.683)	\$12,439.7 (13.844)
2091	\$930.0	\$261.4 (0.281)	\$0.0 0.000	\$765.8 (0.823)	\$635.9 (0.684)	\$12,831.0 (13.797)
2092	\$962.5	\$270.6 (0.281)	\$0.0 0.000	\$789.8 (0.821)	\$658.9 (0.684)	\$13,232.5 (13.748)
2093	\$996.2	\$280.0 (0.281)	\$0.0 0.000	\$814.4 (0.818)	\$682.6 (0.685)	\$13,644.3 (13.696)
2094	\$1,031.1	\$289.8 (0.281)	\$0.0 0.000	\$839.7 (0.814)	\$707.3 (0.686)	\$14,066.6 (13.642)
2095	\$1,067.2	\$300.0 (0.281)	\$0.0 0.000	\$865.6 (0.811)	\$732.8 (0.687)	\$14,499.4 (13.587)
2096	\$1,104.5	\$310.5 (0.281)	\$0.0 0.000	\$892.2 (0.808)	\$759.2 (0.687)	\$14,942.8 (13.529)
2097	\$1,143.2	\$321.3 (0.281)	\$0.0 0.000	\$919.4 (0.804)	\$786.6 (0.688)	\$15,396.9 (13.468)
2098	\$1,183.2	\$332.6 (0.281)	\$0.0 0.000	\$947.2 (0.801)	\$815.0 (0.689)	\$15,861.7 (13.406)
2099	\$1,224.6	\$344.2 (0.281)	\$0.0 0.000	\$975.7 (0.797)	\$844.4 (0.689)	\$16,337.3 (13.341)

## FOOTNOTES FOR TABLE 9

- <sup>1</sup> Public Law 98-94 established the military retirement fund. Under the law, the DoD is responsible for the normal cost payment and the Treasury is responsible for the payments on the unfunded liability. There are no employee contributions to the fund.
- <sup>2</sup> The projections assume downsizing in future active duty and reserve force strengths through FY07 and constant force strengths thereafter. Basic pay is only a portion of military compensation. See the Summary of the Military Retirement System in Appendix A for details.
- <sup>3</sup> Due to the need of establishing a normal cost percentage a year in advance of implementation (Federal budget deadlines) the percentage actually used and displayed here may vary from the one derived in the valuation as of the end of the previous year. Starting in FY87 normal cost percentages are developed separately for the full-time and part-time basic payrolls. See Table 10 for this additional breakdown.
- <sup>4</sup> Disbursements are on a cash basis. Beginning December 1984, entitlements obligated for a month are paid at the beginning of the following month. Prior to this date, entitlements were paid at the end of the month of obligation. Consequently, FY85 disbursements include only 11 months of payments.
- <sup>5</sup> This fund balance (on a book value basis) reflects cash disbursements during the year. On September 30, 2000, assets in the fund totaled \$162.7 billion.

NOTE: Mortality rates that are applied in the valuation to active (non-retired) members, nondisabled retirees, and survivor beneficiaries are decreased (or “improved”) over time. See Appendix J for details.

### ANNUAL ECONOMIC ASSUMPTIONS USED IN PROJECTIONS OF PLAN ASSETS

<u>Fiscal Year</u>	<u>Full COLA</u>	<u>Basic Pay</u>	<u>Interest</u>
2001	3.5	3.7	6.25
2002	2.5	4.6	6.25
2003-2006	2.6	3.9	6.25
2007-2009	2.5	3.9	6.25
2010	3.0	3.9	6.25
2011+	3.0	3.5	6.25

Full COLA is equal to full cost-of-living increases to retiree and survivor annuities. Interest assumptions pertain to interest income for the entire portfolio in a fiscal year. Long-term annual economic assumptions (used in the normal cost and unfunded liability calculations) are 3.0% COLA, 3.5% basic pay and 6.25% interest.

TABLE 10

MILITARY RETIREMENT SYSTEM  
 PROJECTED PAYROLL AND NORMAL COST PAYMENTS  
 (In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Payroll			Normal Cost Payments			Total	
	Full-Time	Part-Time	Total	Full-Time	Part-Time	Total		
2001	\$36.8	\$4.1	\$40.9	\$10.9	(0.296)	\$0.6	(0.141)	\$11.5
2002	\$38.5	\$4.3	\$42.8	\$11.7	(0.303)	\$0.6	(0.144)	\$12.3
2003	\$40.0	\$4.4	\$44.4	\$12.1	(0.302)	\$0.6	(0.144)	\$12.7
2004	\$41.5	\$4.6	\$46.0	\$12.5	(0.301)	\$0.7	(0.144)	\$13.1
2005	\$43.0	\$4.8	\$47.7	\$12.9	(0.300)	\$0.7	(0.144)	\$13.6
2006	\$44.5	\$4.9	\$49.4	\$13.3	(0.299)	\$0.7	(0.144)	\$14.0
2007	\$46.1	\$5.1	\$51.2	\$13.8	(0.298)	\$0.7	(0.144)	\$14.5
2008	\$47.8	\$5.3	\$53.1	\$14.2	(0.298)	\$0.8	(0.144)	\$15.0
2009	\$49.6	\$5.5	\$55.0	\$14.7	(0.297)	\$0.8	(0.144)	\$15.5
2010	\$51.4	\$5.7	\$57.1	\$15.3	(0.297)	\$0.8	(0.144)	\$16.1
2011	\$53.2	\$5.9	\$59.0	\$15.8	(0.297)	\$0.8	(0.144)	\$16.6
2012	\$55.0	\$6.1	\$61.0	\$16.3	(0.296)	\$0.9	(0.144)	\$17.2
2013	\$56.9	\$6.3	\$63.1	\$16.9	(0.296)	\$0.9	(0.144)	\$17.8
2014	\$58.8	\$6.5	\$65.3	\$17.4	(0.296)	\$0.9	(0.144)	\$18.4
2015	\$60.9	\$6.7	\$67.6	\$18.0	(0.296)	\$1.0	(0.144)	\$19.0
2016	\$63.1	\$6.9	\$70.1	\$18.7	(0.296)	\$1.0	(0.144)	\$19.7
2017	\$65.3	\$7.2	\$72.5	\$19.3	(0.296)	\$1.0	(0.144)	\$20.4
2018	\$67.7	\$7.4	\$75.1	\$20.0	(0.296)	\$1.1	(0.144)	\$21.1
2019	\$70.1	\$7.7	\$77.8	\$20.8	(0.296)	\$1.1	(0.144)	\$21.9
2020	\$72.7	\$8.0	\$80.6	\$21.5	(0.296)	\$1.1	(0.144)	\$22.7
2021	\$75.3	\$8.2	\$83.5	\$22.3	(0.296)	\$1.2	(0.144)	\$23.5
2022	\$78.0	\$8.5	\$86.5	\$23.1	(0.296)	\$1.2	(0.144)	\$24.3
2023	\$80.8	\$8.8	\$89.6	\$23.9	(0.296)	\$1.3	(0.144)	\$25.2
2024	\$83.6	\$9.1	\$92.8	\$24.8	(0.296)	\$1.3	(0.144)	\$26.1
2025	\$86.6	\$9.4	\$96.0	\$25.6	(0.296)	\$1.4	(0.144)	\$27.0
2026	\$89.7	\$9.8	\$99.5	\$26.6	(0.296)	\$1.4	(0.144)	\$28.0
2027	\$92.9	\$10.1	\$103.0	\$27.5	(0.296)	\$1.5	(0.144)	\$28.9
2028	\$96.1	\$10.5	\$106.6	\$28.5	(0.296)	\$1.5	(0.144)	\$30.0
2029	\$99.5	\$10.8	\$110.3	\$29.5	(0.296)	\$1.6	(0.144)	\$31.0
2030	\$103.0	\$11.2	\$114.2	\$30.5	(0.296)	\$1.6	(0.144)	\$32.1
2031	\$106.6	\$11.6	\$118.2	\$31.6	(0.296)	\$1.7	(0.144)	\$33.2
2032	\$110.3	\$12.0	\$122.3	\$32.7	(0.296)	\$1.7	(0.144)	\$34.4
2033	\$114.1	\$12.4	\$126.6	\$33.8	(0.296)	\$1.8	(0.144)	\$35.6
2034	\$118.1	\$12.9	\$131.0	\$35.0	(0.296)	\$1.8	(0.144)	\$36.8
2035	\$122.2	\$13.3	\$135.5	\$36.2	(0.296)	\$1.9	(0.144)	\$38.1
2036	\$126.4	\$13.8	\$140.2	\$37.4	(0.296)	\$2.0	(0.144)	\$39.4
2037	\$130.8	\$14.3	\$145.1	\$38.7	(0.296)	\$2.1	(0.144)	\$40.8
2038	\$135.4	\$14.8	\$150.1	\$40.1	(0.296)	\$2.1	(0.144)	\$42.2
2039	\$140.1	\$15.3	\$155.3	\$41.5	(0.296)	\$2.2	(0.144)	\$43.7
2040	\$145.0	\$15.8	\$160.8	\$42.9	(0.296)	\$2.3	(0.144)	\$45.2
2041	\$150.0	\$16.4	\$166.4	\$44.4	(0.296)	\$2.4	(0.144)	\$46.8
2042	\$155.3	\$16.9	\$172.2	\$46.0	(0.296)	\$2.4	(0.144)	\$48.4
2043	\$160.7	\$17.5	\$178.2	\$47.6	(0.296)	\$2.5	(0.144)	\$50.1
2044	\$166.3	\$18.1	\$184.5	\$49.2	(0.296)	\$2.6	(0.144)	\$51.8
2045	\$172.2	\$18.8	\$190.9	\$51.0	(0.296)	\$2.7	(0.144)	\$53.7
2046	\$178.2	\$19.4	\$197.6	\$52.8	(0.296)	\$2.8	(0.144)	\$55.6
2047	\$184.5	\$20.1	\$204.6	\$54.6	(0.296)	\$2.9	(0.144)	\$57.5
2048	\$190.9	\$20.8	\$211.8	\$56.5	(0.296)	\$3.0	(0.144)	\$59.5
2049	\$197.6	\$21.5	\$219.2	\$58.5	(0.296)	\$3.1	(0.144)	\$61.6
2050	\$204.6	\$22.3	\$226.9	\$60.6	(0.296)	\$3.2	(0.144)	\$63.8

TABLE 10 (cont.)

**MILITARY RETIREMENT SYSTEM**  
**PROJECTED PAYROLL AND NORMAL COST PAYMENTS**  
(In Billions of Dollars and as a Proportion of Payroll)

Fiscal Year	Payroll			Normal Cost Payments			Total	
	Full-Time	Part-Time	Total	Full-Time	Part-Time	Total		
2051	\$211.8	\$23.1	\$234.9	\$62.7	(0.296)	\$3.3	(0.144)	\$66.0
2052	\$219.2	\$23.9	\$243.1	\$64.9	(0.296)	\$3.4	(0.144)	\$68.3
2053	\$226.9	\$24.7	\$251.6	\$67.2	(0.296)	\$3.6	(0.144)	\$70.7
2054	\$234.8	\$25.6	\$260.4	\$69.5	(0.296)	\$3.7	(0.144)	\$73.2
2055	\$243.1	\$26.5	\$269.6	\$72.0	(0.296)	\$3.8	(0.144)	\$75.8
2056	\$251.6	\$27.4	\$279.0	\$74.5	(0.296)	\$3.9	(0.144)	\$78.4
2057	\$260.4	\$28.4	\$288.8	\$77.1	(0.296)	\$4.1	(0.144)	\$81.2
2058	\$269.5	\$29.4	\$298.9	\$79.8	(0.296)	\$4.2	(0.144)	\$84.0
2059	\$278.9	\$30.4	\$309.3	\$82.6	(0.296)	\$4.4	(0.144)	\$86.9
2060	\$288.7	\$31.5	\$320.1	\$85.5	(0.296)	\$4.5	(0.144)	\$90.0
2061	\$298.8	\$32.6	\$331.3	\$88.5	(0.296)	\$4.7	(0.144)	\$93.1
2062	\$309.2	\$33.7	\$342.9	\$91.5	(0.296)	\$4.8	(0.144)	\$96.4
2063	\$320.0	\$34.9	\$354.9	\$94.7	(0.296)	\$5.0	(0.144)	\$99.8
2064	\$331.2	\$36.1	\$367.3	\$98.1	(0.296)	\$5.2	(0.144)	\$103.2
2065	\$342.8	\$37.4	\$380.2	\$101.5	(0.296)	\$5.4	(0.144)	\$106.9
2066	\$354.8	\$38.7	\$393.5	\$105.0	(0.296)	\$5.6	(0.144)	\$110.6
2067	\$367.2	\$40.0	\$407.2	\$108.7	(0.296)	\$5.8	(0.144)	\$114.5
2068	\$380.1	\$41.4	\$421.5	\$112.5	(0.296)	\$6.0	(0.144)	\$118.5
2069	\$393.4	\$42.9	\$436.2	\$116.4	(0.296)	\$6.2	(0.144)	\$122.6
2070	\$407.1	\$44.4	\$451.5	\$120.5	(0.296)	\$6.4	(0.144)	\$126.9
2071	\$421.4	\$45.9	\$467.3	\$124.7	(0.296)	\$6.6	(0.144)	\$131.4
2072	\$436.1	\$47.5	\$483.7	\$129.1	(0.296)	\$6.8	(0.144)	\$135.9
2073	\$451.4	\$49.2	\$500.6	\$133.6	(0.296)	\$7.1	(0.144)	\$140.7
2074	\$467.2	\$50.9	\$518.1	\$138.3	(0.296)	\$7.3	(0.144)	\$145.6
2075	\$483.6	\$52.7	\$536.3	\$143.2	(0.296)	\$7.6	(0.144)	\$150.7
2076	\$500.5	\$54.5	\$555.1	\$148.2	(0.296)	\$7.8	(0.144)	\$156.0
2077	\$518.0	\$56.4	\$574.5	\$153.4	(0.296)	\$8.1	(0.144)	\$161.5
2078	\$536.2	\$58.4	\$594.6	\$158.7	(0.296)	\$8.4	(0.144)	\$167.1
2079	\$555.0	\$60.5	\$615.4	\$164.3	(0.296)	\$8.7	(0.144)	\$173.0
2080	\$574.4	\$62.6	\$637.0	\$170.0	(0.296)	\$9.0	(0.144)	\$179.0
2081	\$594.5	\$64.8	\$659.3	\$176.0	(0.296)	\$9.3	(0.144)	\$185.3
2082	\$615.3	\$67.0	\$682.4	\$182.2	(0.296)	\$9.6	(0.144)	\$191.8
2083	\$636.9	\$69.4	\$706.3	\$188.5	(0.296)	\$10.0	(0.144)	\$198.5
2084	\$659.2	\$71.8	\$731.0	\$195.1	(0.296)	\$10.3	(0.144)	\$205.5
2085	\$682.2	\$74.3	\$756.6	\$202.0	(0.296)	\$10.7	(0.144)	\$212.7
2086	\$706.1	\$76.9	\$783.0	\$209.0	(0.296)	\$11.1	(0.144)	\$220.1
2087	\$730.8	\$79.6	\$810.4	\$216.4	(0.296)	\$11.5	(0.144)	\$227.8
2088	\$756.4	\$82.4	\$838.8	\$223.9	(0.296)	\$11.9	(0.144)	\$235.8
2089	\$782.9	\$85.3	\$868.2	\$231.8	(0.296)	\$12.3	(0.144)	\$244.0
2090	\$810.3	\$88.3	\$898.5	\$239.9	(0.296)	\$12.7	(0.144)	\$252.6
2091	\$838.6	\$91.4	\$930.0	\$248.3	(0.296)	\$13.1	(0.144)	\$261.4
2092	\$868.0	\$94.6	\$962.5	\$257.0	(0.296)	\$13.6	(0.144)	\$270.6
2093	\$898.3	\$97.9	\$996.2	\$265.9	(0.296)	\$14.1	(0.144)	\$280.0
2094	\$929.8	\$101.3	\$1,031.1	\$275.3	(0.296)	\$14.6	(0.144)	\$289.8
2095	\$962.3	\$104.8	\$1,067.2	\$284.9	(0.296)	\$15.1	(0.144)	\$300.0
2096	\$996.0	\$108.5	\$1,104.5	\$294.9	(0.296)	\$15.6	(0.144)	\$310.5
2097	\$1,030.9	\$112.3	\$1,143.2	\$305.2	(0.296)	\$16.2	(0.144)	\$321.3
2098	\$1,067.0	\$116.2	\$1,183.2	\$315.9	(0.296)	\$16.7	(0.144)	\$332.6
2099	\$1,104.3	\$120.3	\$1,224.6	\$326.9	(0.296)	\$17.3	(0.144)	\$344.2



**TABLE 11**  
**PAST AND PROJECTED UNFUNDED LIABILITY PAYMENTS ON OCTOBER 1**  
(\$ in billions)

<u>Calendar Year</u>	<u>Original UFL</u>	<u>Assumption Changes</u>	<u>Benefit Changes</u>	<u>Actuarial Experience</u>	<u>Total</u>
1984*	\$9.500	\$0.000	\$0.000	\$0.000	\$9.500
1985*	\$10.500	\$0.000	\$0.000	\$0.000	\$10.500
1986*	\$11.042	\$0.000	\$0.000	(\$0.518)	\$10.524
1987*	\$11.679	\$0.000	(\$0.113)	(\$1.281)	\$10.285
1988*	\$12.003	\$0.135	(\$0.112)	(\$2.244)	\$9.782
1989*	\$16.300	(\$2.116)	(\$0.132)	(\$3.456)	\$10.596
1990*	\$17.237	(\$2.237)	(\$0.140)	(\$4.078)	\$10.782
1991*	\$18.228	(\$2.366)	(\$0.148)	(\$4.508)	\$11.206
1992*	\$22.621	(\$4.625)	(\$0.171)	(\$5.552)	\$12.273
1993*	\$23.865	(\$4.880)	(\$0.180)	(\$6.897)	\$11.908
1994*	\$25.177	(\$5.148)	(\$0.189)	(\$8.370)	\$11.470
1995*	\$27.746	(\$6.619)	(\$0.079)	(\$10.349)	\$10.699
1996*	\$33.456	(\$6.917)	(\$0.042)	(\$11.346)	\$15.151
1997*	\$36.227	(\$8.529)	\$0.048	(\$12.627)	\$15.119
1998*	\$37.676	(\$8.870)	\$0.050	(\$13.606)	\$15.250
1999*	\$39.183	(\$9.201)	\$0.052	(\$14.732)	\$15.302
2000*	\$42.098	(\$9.984)	\$0.335	(\$16.360)	\$16.089
2001	\$43.571	(\$9.862)	\$0.472	(\$17.134)	\$17.047
2002	\$45.096	(\$10.207)	\$0.488	(\$17.734)	\$17.643
2003	\$46.674	(\$10.564)	\$0.505	(\$18.354)	\$18.261
2004	\$48.308	(\$10.934)	\$0.523	(\$18.997)	\$18.900
2005	\$49.999	(\$11.316)	\$0.542	(\$19.662)	\$19.563
2006	\$51.749	(\$11.712)	\$0.560	(\$20.350)	\$20.247
2007	\$53.560	(\$12.122)	\$0.580	(\$21.062)	\$20.956
2008	\$55.434	(\$12.547)	\$0.600	(\$21.799)	\$21.688
2009	\$57.375	(\$12.986)	\$0.621	(\$22.562)	\$22.448
2010	\$59.383	(\$13.440)	\$0.643	(\$23.352)	\$23.234
2011	\$61.461	(\$13.911)	\$0.666	(\$24.169)	\$24.047
2012	\$63.612	(\$14.398)	\$0.689	(\$25.015)	\$24.888
2013	\$65.839	(\$14.902)	\$0.713	(\$25.891)	\$25.759
2014	\$68.143	(\$15.423)	\$0.738	(\$26.797)	\$26.661
2015	\$70.528	(\$15.963)	\$0.764	(\$27.735)	\$27.594
2016	\$72.996	(\$16.522)	\$0.791	(\$28.706)	\$28.559
2017	\$75.551	(\$17.100)	\$0.818	(\$29.710)	\$29.559
2018	\$78.196	(\$17.698)	\$0.847	(\$30.750)	\$30.595
2019	\$80.932	(\$18.318)	\$0.877	(\$31.826)	\$31.665
2020	\$83.765	(\$18.958)	\$0.907	(\$32.940)	\$32.774
2021	\$86.697	(\$19.622)	\$0.939	(\$34.093)	\$33.921
2022	\$89.731	(\$11.796)	\$0.972	(\$15.094)	\$63.813
2023	\$92.872	\$0.000	\$1.006	\$0.000	\$93.878
2024	\$96.122	\$0.000	\$1.041	\$0.000	\$97.163
2025	\$99.487	\$0.000	\$1.078	\$0.000	\$100.565
2026	\$102.968	\$0.000	\$1.116	\$0.000	\$104.084
2027	\$106.572	\$0.000	\$1.154	\$0.000	\$107.726
2028	\$110.303	\$0.000	\$1.195	\$0.000	\$111.498
2029	\$114.163	\$0.000	\$0.896	\$0.000	\$115.059
2030	\$118.159	\$0.000	\$0.000	\$0.000	\$118.159
2031	\$122.294	\$0.000	\$0.000	\$0.000	\$122.294
2032	\$126.575	\$0.000	\$0.000	\$0.000	\$126.575
2033	\$131.004	\$0.000	\$0.000	\$0.000	\$131.004

\*Actual data

**TABLE 12**  
**PAST AND PROJECTED UNFUNDED LIABILITY BALANCE ON SEPTEMBER 30 (Before Payment**  
**(\$ in billions)**

<u>Calendar Year</u>	<u>Original UFL</u>	<u>Assumption Changes</u>	<u>Benefit Changes</u>	<u>Actuarial Experience</u>	<u>Total</u>
1984*	\$528.700	\$ .000	\$ .000	\$ .000	\$528.700
1985*	\$553.500	\$ .000	\$ .000	(\$13.800)	\$539.700
1986*	\$578.800	\$ .000	(\$3.000)	(\$34.200)	\$541.600
1987*	\$605.200	\$ .000	(\$2.998)	(\$59.500)	\$542.702
1988*	\$632.700	(\$50.062)	(\$3.076)	(\$81.180)	\$498.382
1989*	\$664.173	(\$53.711)	(\$3.172)	(\$94.562)	\$512.728
1990*	\$693.224	(\$55.207)	(\$3.253)	(\$102.283)	\$532.481
1991*	\$723.306	(\$97.578)	(\$3.331)	(\$111.879)	\$510.518
1992*	\$757.959	(\$102.353)	(\$3.421)	(\$139.327)	\$512.858
1993*	\$790.488	(\$105.057)	(\$3.494)	(\$167.942)	\$513.995
1994*	\$824.120	(\$130.691)	(\$ .968)	(\$201.052)	\$491.409
1995*	\$852.872	(\$134.017)	(\$ .832)	(\$217.255)	\$500.768
1996*	\$880.822	(\$159.859)	\$ .897	(\$231.424)	\$490.436
1997*	\$902.444	(\$162.883)	\$1.000	(\$244.673)	\$495.888
1998*	\$922.521	(\$164.057)	\$1.014	(\$259.976)	\$499.503
1999*	\$942.360	(\$169.827)	\$6.583	(\$277.940)	\$501.176
2000*	\$959.626	(\$164.942)	\$9.414	(\$284.168)	\$519.931
2001	\$974.873	(\$164.643)	\$9.647	(\$284.546)	\$535.332
2002	\$989.509	(\$164.454)	\$9.748	(\$284.125)	\$550.677
2003	\$1003.439	(\$163.888)	\$9.839	(\$283.041)	\$566.349
2004	\$1016.562	(\$162.907)	\$9.917	(\$281.229)	\$582.344
2005	\$1028.770	(\$161.471)	\$9.981	(\$278.622)	\$598.659
2006	\$1039.945	(\$159.540)	\$10.029	(\$275.145)	\$615.289
2007	\$1049.958	(\$157.067)	\$10.061	(\$270.720)	\$632.232
2008	\$1058.673	(\$154.004)	\$10.074	(\$265.261)	\$649.481
2009	\$1065.941	(\$150.298)	\$10.066	(\$258.679)	\$667.030
2010	\$1071.601	(\$145.894)	\$10.035	(\$250.874)	\$684.869
2011	\$1075.482	(\$140.732)	\$9.979	(\$241.742)	\$702.987
2012	\$1077.397	(\$134.748)	\$9.895	(\$231.171)	\$721.374
2013	\$1077.147	(\$127.871)	\$9.781	(\$219.041)	\$740.016
2014	\$1074.515	(\$120.030)	\$9.635	(\$205.222)	\$758.898
2015	\$1069.270	(\$111.145)	\$9.453	(\$189.577)	\$778.002
2016	\$1061.163	(\$101.131)	\$9.232	(\$171.957)	\$797.308
2017	\$1049.928	(\$89.897)	\$8.969	(\$152.204)	\$816.796
2018	\$1035.275	(\$77.347)	\$8.660	(\$130.150)	\$836.439
2019	\$1016.897	(\$63.377)	\$8.302	(\$105.612)	\$856.210
2020	\$994.463	(\$47.875)	\$7.889	(\$78.398)	\$876.079
2021	\$967.616	(\$30.724)	\$7.418	(\$48.299)	\$896.011
2022	\$935.977	(\$11.796)	\$6.884	(\$15.094)	\$915.971
2023	\$899.136	\$ .000	\$6.282	\$ .000	\$905.418
2024	\$856.656	\$ .000	\$5.605	\$ .000	\$862.261
2025	\$808.067	\$ .000	\$4.850	\$ .000	\$812.917
2026	\$752.866	\$ .000	\$4.007	\$ .000	\$756.874
2027	\$690.517	\$ .000	\$3.072	\$ .000	\$693.589
2028	\$620.441	\$ .000	\$2.038	\$ .000	\$622.479
2029	\$542.022	\$ .000	\$ .896	\$ .000	\$542.918
2030	\$454.600	\$ .000	\$ .000	\$ .000	\$454.600
2031	\$357.469	\$ .000	\$ .000	\$ .000	\$357.469
2032	\$249.873	\$ .000	\$ .000	\$ .000	\$249.873
2033	\$131.004	\$ .000	\$ .000	\$ .000	\$131.004

\*Actual data

## The Military Retirement Fund Transaction Process

The description of deficit, debt, and funding impact contained in this section are applicable under the current practices of the Federal government regarding budget accounting and tax policy. These practices do not provide for increases in taxes to fund the military retirement system beyond what is required to pay benefits to retirees and survivors each year, but do result in increases in the national debt. If current practices change, then this description would need to be revised.

A trust fund was created inside the Unified Budget of the Federal government for the monies of the military retirement system. This fund has three sources of income: (1) normal cost payments made by the Department of Defense (DoD), (2) unfunded liability payments made by the Treasury, and (3) interest earnings on investments in government securities made by the Treasury and the payment of the par values of these securities at maturity. All three of these items are intragovernmental transfers consisting of debits from one government account and credits to another.

The fund has two types of payouts: (1) payments to retirees and survivors of retirees and (2) purchases of U.S. Treasury securities. The purchase of a Treasury security is also an intragovernmental transfer, while a payment to a retiree or a survivor is not.

Figure 1 on the following page depicts this process. The only transactions in a particular year that directly affect the deficit of the Unified Budget are those that pass in or out of the government, such as tax collections and retiree or survivor payments. The intragovernmental transfers are debits and credits within the Federal budget, with no direct effect on the deficit. The following examples illustrate the process:

- If DoD debits \$17 billion in normal cost payments and the fund credits the \$17 billion, the net direct Federal budget deficit effect is zero.
- If the fund purchases \$7 billion in securities (debit) and the Treasury sells \$7 billion in securities (credit), the net direct Federal budget deficit effect is zero.
- If the Treasury pays \$700 million interest (debit) and the fund earns \$700 million interest (credit), the net direct Federal budget deficit effect is zero.
- Disregarding all other government programs, if the government collects \$15 billion in tax revenues (credit) and pays \$17.3 billion to retirees (debit), the net direct Federal budget deficit effect is \$2.3 billion.

## UNIFIED BUDGET

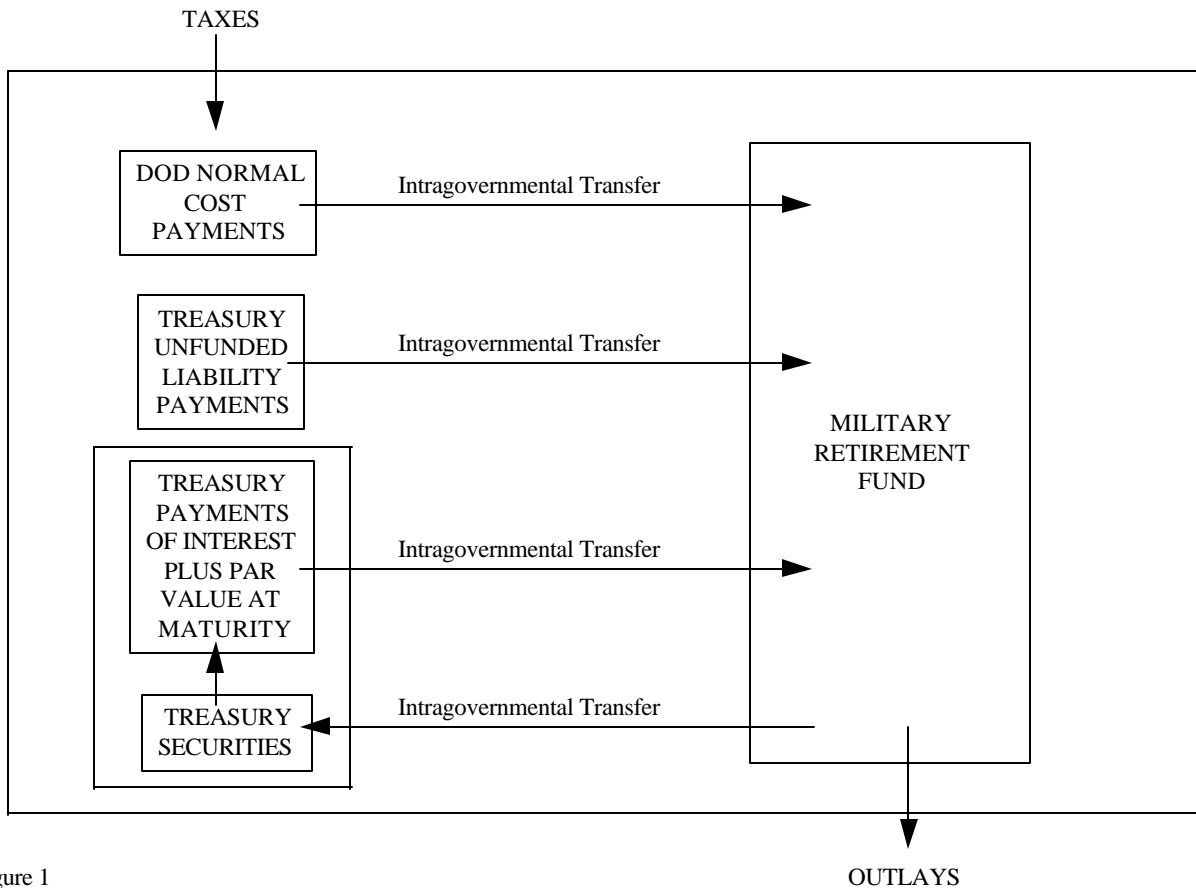


Figure 1

All of the intragovernmental transfers in Figure 1 will always generate both a credit and an associated equal debit within the Unified Budget. Consequently, under current Federal budget accounting practices, contributions to the fund beyond what are required to pay benefits to retirees and survivors that year have no impact on the total Federal deficit. Just as in the pay-as-you-go method, the only transactions that directly affect the deficit in the retirement system accounting process are payments to retirees and survivors.

On the other hand, the purchase of securities by the fund does increase the national debt, specifically the portion of the debt held by the government. The portion held by the public will not change. However, the total debt will increase and this might require an increase in the statutory borrowing authority.

Suppose that in the year 2001 the amount needed to pay retirees was \$33 billion and the military retirement fund had grown to \$154 billion. The following transactions would take place:

- Fund cashes in \$33 billion in securities (credit).
- Treasury pays \$33 billion to Fund (debit).
- Net Federal surplus zero.

Since no budget surplus can be derived from using fund money, the government still has a need for \$33 billion to pay retirees—the same need it would have under the pay-as-you-go system. Accordingly, the fund cannot transfer liabilities from one tax year to another.

However, funding does have an effect on the DoD budget. With the normal cost payments in the DoD budget, policymakers now automatically consider the impact on future retirement costs when they make manpower decisions, and this could have a significant impact on future Federal budgets. For example, if a decision were made today to double the size of the active duty and reserve forces, the DoD budget would automatically have an immediate increase in retirement obligations. Under the pay-as-you-go method, the retirement expenses would not necessarily be considered in the initial decision since they would not show up for 20 years.

The fact that costs are fully recognized in advance probably provides greater benefit security over the long term. Also, when there is a fund, the system is not as dependent on obtaining the necessary appropriation from Congress each year in order to pay benefits for that year. This can provide additional benefit security in the short run.



APENDIX A

SUMMARY OF THE MILITARY RETIREMENT SYSTEM

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## SUMMARY OF THE MILITARY RETIREMENT SYSTEM

As of September 30, 2000

### Summary

The military retirement system applies to members of the Army, Navy, Marine Corps, and Air Force. However, most of the provisions also apply to retirement systems for members of the Coast Guard (administered by the Department of Transportation), officers of the Public Health Service (administered by the Department of Health and Human Services), and officers of the National Oceanic and Atmospheric Administration (administered by the Department of Commerce). Only those members in plans administered by the Department of Defense are included in this valuation.

The system is a funded, noncontributory defined benefit plan that includes nondisability retired pay, disability retired pay, retired pay for reserve service, and survivor annuity programs. The Service Secretaries approve immediate nondisability retired pay at any age with credit of at least 20 years of active-duty service. Reserve retirees must be 60 years old with 20 creditable years of service before retired pay commences. There is no vesting before retirement.

There are three distinct nondisability benefit formulas related to three populations within the military retirement system. *Final pay*: Military personnel who first became members of the armed services before September 8, 1980 have retired pay equal to (terminal basic pay) times (a multiplier). The multiplier is equal to (2.5 percent) times (years of service) and is limited to 75 percent. *High-3*: If the retiree first became a member of the armed services on or after September 8, 1980, the average of the highest 36 months of basic pay is used instead of terminal basic pay. *Redux*: Members first entering the armed services on or after August 1, 1986 are subject to a penalty if they retire with less than 30 years of service; at age 62, their retired pay is recomputed without the penalty. The FY 2000 Defense Authorization Act provided that Redux members now have a choice of (a) receiving High-3 benefits or (b) staying under the Redux formula and receiving a lump-sum \$30,000 payment. Members make their election during the fifteenth year of service. Those who choose the lump-sum payment must remain continuously on active duty until they complete 20 years of active duty service or forfeit a portion of the \$30,000.

Retiree and survivor benefits are automatically adjusted annually to protect the purchasing power of initial retired pay. The benefits associated with members first entering the armed services before August 1, 1986, or of those entering after the date but who elect to switch to the *High-3* benefit formula, are adjusted annually by the percentage increase in the average Consumer Price Index (CPI). This is commonly referred to as full CPI protection. Benefits associated with members entering on or after August 1, 1986 who elect the \$30,000 payment are annually increased by the percentage change in the CPI minus 1 percent. At the military member's age 62, the benefits are restored to the amount that would have been payable had full CPI protection been in effect. This restoral is in combination with that



described in the previous paragraph. However, after this restoral, partial indexing (CPI minus 1 percent) continues for life.

### **Nondisability Retirement From Active Service**

The current system allows voluntary retirement upon completion of at least 20 years of service at any age, subject to Service Secretary approval. The military retiree receives immediate retired pay calculated as (base pay) times (a multiplier). Base pay is equal to terminal basic pay if the retiree first became a member of the armed services before September 8, 1980. It is equal to the average of the highest 36 months of basic pay for all other members. The multiplier is equal to (2.5 percent) times (years of service, rounded down to the nearest month) and is limited to 75 percent. Members first entering the armed services on or after August 1, 1986, who elect the \$30,000 and who retire with less than 30 years of service receive a temporary penalty until age 62. The penalty reduces the multiplier by one percentage point for each full year of service under 30. For example, the multiplier for a 20-year retiree would be 40 percent (50 percent minus 10 percent). At age 62, the retired pay is recomputed with the penalty removed.

In FY 2000, 1.36 million nondisability retirees from active duty were paid \$27.1 billion.

### **Disability Retirement**

A disabled military member is entitled to disability retired pay if the member has at least 20 years of service, or the disability is at least 30 percent (under a standard schedule of rating disabilities by the Veterans Administration) and either (1) the member has eight years of service; (2) the disability results from active duty; or (3) the disability occurred in the line of duty during a time of war or national emergency or certain other time periods.

In disability retirement, the member receives retired pay equal to the larger of (1) the accrued nondisability retirement benefit, or (2) base pay multiplied by the rated percent of disability. The benefit cannot be more than 75 percent of base pay. Only the excess of (1) over (2) is subject to federal income taxes. Base pay is equal to terminal basic pay if the retiree first became a member of the armed services before September 8, 1980. If the retiree first entered the Services on or after September 8, 1980, base pay is equal to the average of the highest 36 months of basic pay.

Members whose disabilities may not be permanent are placed on a temporary-disability retired list and receive disability retirement pay just as if they were permanently disabled. However, they must be physically examined every 18 months for any change in disability. A final determination must be made within five years. The temporary disability pay is calculated like the permanent disability retired pay, except that it can be no less than 50 percent of base pay.

In FY 2000, 102,000 disability retirees were paid \$1.32 billion.

## **Reserve Retirement**

Members of the reserves may retire after 20 years of creditable service, the last eight of which must be in a reserve component. However, reserve retired pay is not payable until age 60. Retired pay is computed as (base pay) times (2.5 percent) times (years of service). If the reservist was first a member of the armed services before September 8, 1980, base pay is defined as the active duty basic pay in effect for the retiree's grade and years of service at the time that retired pay begins. If the reservist first became a member of the armed services on or after September 8, 1980, base pay is the average basic pay for the member's grade in the highest 36 months that he/she was a member of the armed services. The years of service are determined by using a point system, where 360 points convert to a year of service. Typically, a point is awarded for a day of service or drill attendance, with 15 automatic points being awarded for a year's membership in a reserve component. A creditable year of service is one in which the member earned at least 50 points. A member cannot retire with less than 20 creditable years, although points earned in non-creditable years are used in the retirement calculation.

In FY 2000, 238,000 reserve retirees were paid \$2.48 billion.

## **Survivor Benefits**

Legislation originating in 1953 provided optional survivor benefits. It was later referred to as the Retired Servicemen's Family Protection Plan (RSFPP). The plan proved to be expensive and inadequate since the survivor annuities were never adjusted for inflation and could not be more than 50 percent of retired pay. RSFPP was designed to be self-supporting in the sense that the present value of the reductions to retired pay equaled the present value of the survivor annuities.

On September 21, 1972, RSFPP was replaced by the Survivor Benefit Plan (SBP) for new retirees. RSFPP still covers those servicemen retired before 1972 who did not convert to the new plan and still pays survivor annuities.

Retired pay is reduced, before taxes, for the member's cost of SBP. Total SBP costs are shared by the Government and the retiree, so the reductions in retired pay are only a portion of the total cost of the SBP program.

The SBP survivor annuity is initially 55 percent of the member's base amount. The base amount is elected by the member, but cannot be less than \$300 or more than the member's full retired pay. If a penalty for service under 30 years is included in the calculation of retired pay, the maximum base amount is equal to the full retired pay without the penalty.

The spouse's annuity is considered a two-tier benefit because, at age 62, the annuity is reduced to 35 percent of the base amount. Prior to the enactment of the two-tier benefit, survivor annuities were

integrated with Social Security. SBP participants and active and reserve personnel with at least 20 years of service on October 1, 1985 were grandfathered into the two-tier system. Their survivors will be given the higher of the two annuities at age 62.

During FY 1987 the SBP program's treatment of survivor remarriages changed. Prior to the change, a surviving spouse remarrying before age 60 had the survivor annuity suspended. The change lowered the age to 55. (If the remarriage ends in divorce or death, the annuity is reinstated.)

Beginning in April 1992, retirees with base amounts equal to full retired pay could also elect a supplemental annuity for their surviving spouses after age 62, in increments of 5 percent of the base amount, up to a maximum 20 percent benefit. (The cost of this supplemental SBP benefit is borne by retirees in the form of a reduction in retired pay over and above the usual 6.5 percent reduction for SBP.)

Members who die on active duty with over 20 years of service are assumed to have retired on the day they died and to have elected full SBP coverage for spouses and/or children.

SBP annuities are reduced by any VA survivor benefits and all premiums relating to the reductions are returned to the survivor. Additionally, SBP annuities are annually increased with cost-of-living adjustments (COLAs). These COLAs may be based on full or partial CPI increases, depending on the benefit formula covering the member. If the member dies before age 62 and the survivor is subject to partial COLAs, the survivor's annuity is increased (on the member's 62nd birthday) to the amount that would have been payable had full COLAs been in effect. Partial COLAs continue annually thereafter.

For reserve retirees, the same set of retired pay reductions applies for survivor coverage after a reservist turns 60 and begins to receive retired pay. A second set of optional reductions, under the Reserve Component Survivor Benefit Plan, provides annuities to survivors of reservists who die before age 60, but after attaining 20 years of service. The added cost of this coverage is borne completely by reservists through deductions from retired pay and survivor annuities.

A paid-up provision eliminating the reduction in retired pay for SBP and RSFPP coverage is effective October 1, 2008 for participants age 70 or older whose retired pay has been reduced for 30 years or more.

In FY 2000, 251,000 surviving families were paid \$1.85 billion.

### **Temporary Early Retirement Authority (TERA)**

The National Defense Authorization Act for FY 1993 (P.L. 102-484) grants temporary authority for the military services to offer early retirements to members with more than 15 but less than 20 years of service. The retired pay is calculated in the usual way except that there is a reduction of 1 percent for every year below 20 years of service. Part or all of this reduction can be restored at age 62 if the

retired member works in a qualified public service job during the period from the date of retirement to the date on which the retiree would have completed 20 years of service. Unlike members who leave military service before 20 years with voluntary separation incentives or special separation benefits, these early retirees are treated like regular military retirees for the purposes of other retirement fringe benefits. This authority is scheduled to expire at the end of FY 2001.

As of September 30, 2000, there were 54,000 TERA retirees receiving retired pay at an annual rate of \$654 million.

### **Cost-of-Living Increases**

All nondisability retirement, disability retirement, and most survivor annuities are adjusted annually for inflation. Cost-of-living adjustments (COLAs) are automatically scheduled to occur every 12 months, on December 1st, to be reflected in checks issued at the beginning of January.

The “full” COLA effective December 1 is computed by calculating the percentage increase in the CPI from the third quarter of the prior calendar year to the third quarter of the current calendar year. The increase is based on the Urban Wage Earner and Clerical Worker Consumer Price Index (CPI-W) and is rounded to the nearest tenth of one percent.

The benefits of retirees (and their survivors) are increased annually with the full COLA, except for those first entering the armed services on or after August 1, 1986 electing the \$30,000. Their benefits are annually increased with a partial COLA equal to the full COLA minus 1 percent. A one-time restoral is given to a partial COLA recipient on the first day of the month after the retiree’s 62nd birthday. At this time, retired pay (or the survivor benefit if the retiree is deceased) is increased to the amount that would have been payable had full COLAs been in effect. Annual partial COLAs continue after this restoral.

### **Relationship with VA Benefits**

The Department of Veterans Affairs (VA) provides compensation for Service-connected and certain non-Service-connected disabilities. These VA benefits can be in place of (or in combination with) DoD retired pay, but they are not additive. Since VA benefits are exempt from federal income taxes, it is sometimes to the advantage of a member to elect them.

Veterans Administration benefits also overlap survivor benefits through the Dependency and Indemnity Compensation (DIC) program. DIC is payable to survivors of veterans who die from Service-connected causes. Although an SBP annuity must be reduced by the amount of any DIC benefit, all SBP premiums relating to the reduction in benefit are returned to the survivor.

## **Interrelationship with Other Federal Service**

For retirement purposes, no credit is given for other federal service, except where cross-service transferability is allowed. Military service is generally creditable toward the federal civilian retirement systems if military retired pay is waived. However, a deposit (equal to a percentage of post-1956 basic pay, plus interest in some cases) must be made to the Civil Service Retirement Fund in order to receive credit. Military service is not generally creditable under both systems (but is for reservists and certain disability retirees).

## **Relationship of Retired Pay to Military Compensation**

Basic pay is the only element of military compensation upon which retired pay is computed and entitlement is determined. Basic pay is the principal element of military compensation that all members receive, but it is not representative, for comparative purposes, of salary levels in the public and private sectors. Reasonable comparisons can be made to regular military compensation (RMC). RMC is the sum of (1) basic pay, (2) cash or in kind allowances (the housing allowance, which varies by grade, location, and dependency status, and a subsistence allowance) and (3) the tax advantages accruing to allowances because they are not subject to federal income tax. Basic pay represents approximately 73 percent of RMC for all retirement eligibles. For the 20-year retiree, basic pay is approximately 69 percent of RMC. Consequently, a 20-year retiree may be entitled to 50 percent of basic pay, but only 35 percent of RMC. For a 30-year retiree, the corresponding entitlements are 75 percent of basic pay, but only 59 percent of RMC. These relationships should be considered when military retired pay is compared to compensation under other retirement systems.

## **Social Security Benefits**

Many military members and their families receive monthly benefits indexed to the CPI from Social Security. As full participants in the Social Security system, military personnel are in general entitled to the same benefits and are subject to the same eligibility criteria and rules as other employees. Details concerning the benefits are covered in other publications.

Beginning in 1946, Congress enacted a series of amendments to the Social Security Act that extended some benefits to military personnel and their survivors. These “gratuitous” benefits were reimbursed out of the general fund of the U.S. Treasury. The Servicemen’s and Veterans’ Survivor Benefits Act brought members of the military into the contributory Social Security system effective January 1, 1957.

For the Old Age, Survivors, and Disability Insurance (OASDI) program, military members must contribute the employee portion of the OASDI payroll tax, with the federal government contributing the matching employer contribution. Only the basic pay of a military member constitutes wages for social security purposes. One feature of OASDI unique to military personnel grants a noncontributory wage

credit of (i) \$300 for each quarter between 1956 and 1978 in which such personnel received military wages and (ii) up to \$1,200 per year after 1977 (\$100 of credit for each \$300 of wages up to a maximum credit of \$1,200). The purpose of this credit is to take into account elements of compensation such as quarters and subsistence not included in wages for social security benefit calculation purposes. Under the 1983 Social Security amendments, the cost of the additional benefits resulting from the noncontributory wage credits for past service was met by a lump sum payment from general revenues, while the cost for future service will be met by payment of combined employer-employee tax on such credits as the service occurs.

Members of the military are also required to pay the Hospital Insurance (HI) payroll tax, with the federal government contributing the matching employer contribution. Medicare eligibility occurs at age 65, or earlier if the employee is disabled.

### **Performance Measures**

During FY 2000, the Fund made disbursements to approximately two million retirees and annuitants. All checks are sent out on a monthly basis.

While there are many ways to measure the funding progress of a pension plan, the ratio of assets in the fund to the present value of future benefits for annuitants on the roll is commonly used. Here is what this ratio has been for the last fourteen years:

- a. September 30, 2000 = .35379
- b. September 30, 1999 = .35245
- c. September 30, 1998 = .33099
- d. September 30, 1997 = .32200
- e. September 30, 1996 = .31314
- f. September 30, 1995 = .30375
- g. September 30, 1994 = .30306
- h. September 30, 1993 = .28314
- i. September 30, 1992 = .27018
- j. September 30, 1991 = .25127
- k. September 30, 1990 = .21878
- l. September 30, 1989 = .19549
- m. September 30, 1988 = .16211
- n. September 30, 1987 = .11431
- o. September 30, 1986 = .07187

This demonstrates a consistent improvement in the strength of the Fund over time. This trend is expected to continue in future years.

The weighted average yield of the Fund on September 30, 2000 was 7.9%.

APPENDIX B

HISTORY

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## HISTORY OF MILITARY RETIREMENT AND RETIRED PAY ADJUSTMENTS<sup>1</sup>

The principal motivations guiding the evolution of the military retirement system have been to ensure that (1) continued service in the armed forces is competitive with the alternatives, (2) promotion opportunities are kept open for young and able members, (3) some measure of economic security is made available to members after retirement from a military career, (4) a pool of experienced personnel is available for recall in times of war or national emergency, and (5) the costs of the system are reasonable. The history of the retirement system shows an interplay of these considerations.

### History of Retired Pay and Disability

Provisions for the maintenance of disabled military members date to colonial days. The pilgrims at Plymouth provided in 1636 that any man sent forth as a soldier and returned maimed should be maintained by the colony during his life. In order to obtain enlistments in military expeditions against the Indians, the colonies promised to care for those who were disabled and had no means of earning a livelihood as well as providing aid for the indigent families of those fallen in conflict. Some of these precedents were continued in the first national pension law of August 26, 1776, which promised half pay for life, or during disability, to the disabled. After the Revolutionary War, a full disability pension for a noncommissioned officer or private soldier was fixed at five dollars per month, with commissioned officers being paid at one-half of their monthly pay. Initially the States administered disability pensions. However, in 1790, the Secretary of War became the principal pension administrator. In 1805, disability pensions were extended to those who received wounds in Military Service which subsequently became disabling.

Pensions based on service by itself were more controversial. Payments of half pay for life had been promised in 1780 by Congress for officers who served to the end of the War. However, the resulting claims were initially settled for less than full value and with a considerable amount of controversy. As the number of veterans declined, and the treasury increased, Congress became more generous. In 1818, an act was passed providing relief to Revolutionary War veterans in need. By 1832, it became full pay for life, regardless of need. In 1836, widows were included. This same pattern was followed for Service pensions for subsequent wars. However, each war was treated separately.

In 1849 the Bureau of Pensions was transferred to the newly established Department of the Interior, where it was to remain until the Veterans Administration was created in 1930. In 1855

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<sup>1</sup> Sections of this are excerpted from (1) *Defense Manpower Commission Staff Studies*, Volume V, U.S. Government Printing Office, 1976 and (2) *Military Compensation Background Papers*, Third Quadrennial Review of Military Compensation, U.S. Government Printing Office, 1976. For a fuller discussion of the early history of military pensions, see *History of Military Pension Legislation in the United States*, William H. Glasson, AMS Press, New York, N.Y. 1968.

authorization was given for involuntary separation with partial pay of Navy officers adjudged incapable, but not necessarily disabled. The outbreak of the Civil War brought further changes when it became necessary to retire older officers no longer fit for field duty. The vehicle was the act of August 3, 1861, the first major nondisability retirement act, which provided for the voluntary retirement of regular officers of all branches of Service after 40 years of duty, at the discretion of the President. Subsequent acts in 1861 and 1862 provided for involuntary retirements for age or years of service.

The 1861 act also established a military disability retirement system that covered the regular officers of all branches of Service. Army and Marine Corps officers were to be paid an amount equal to their “pay proper” plus four rations. Navy officers were paid slightly more. The act of March 2, 1867, authorized disability retirement for enlisted personnel of the Navy and Marine Corps.

Congress established two enduring retirement principles while reducing forces to a peacetime basis in 1870. The first permitted voluntary retirement of officers after 30 years of service upon approval by the President, and the second fixed retired pay at 75 percent of the officer’s pay. The 75 percent applied to Army and Marine Corps officers, both disabled and nondisabled, and was extended to the Navy in 1873.

In 1885, the first nondisability retirement law for Army and Marine Corps enlistees was enacted. Paralleling the officer retirement laws, it provided for voluntary retirement at 30 years of service with 75 percent of pay of the grade in which retired, plus an allowance in lieu of quarters, fuel, and light. The law was extended to the Navy in 1899.

By the middle of World War I, the limit on the number of officers who could be placed on the retired list was causing promotion stagnation problems in the Navy. To alleviate the problem, Congress in 1916 established selection boards for promotion to Rear Admiral, Captain, and Commanders on the basis of age-in-grade. Service-in-grade replaced age-in-grade in 1926. Those officers not selected for promotion were retired at 2 ½ percent of pay per year of service, not to exceed 75 percent of pay. This was the first recognition of length of service as well as grade in the computation of retired pay.

The act of 1916 also created the Fleet Naval Reserve, to provide a pool of experienced personnel who could be recalled to active duty in an emergency. While technically different than retirement, the practical effect was that it was possible for enlistees of the Navy and Marine Corps to “retire” with as little as 16 years of service (raised to 20 in 1925) and become entitled to “retainer pay.”

By 1938, the Navy was again experiencing promotion stagnation problems caused by the large influx of officers in the World War I years. Almost all of these officers were in the same age and years of service groups. To remedy the situation, Congress extended the selection board process to all grades above Lieutenant (junior grade), set limits on years of service for Lieutenant Commanders through Captains, and provided for voluntary retirement at 20 years of service at the discretion of the President.

Following World War II, allegations of unfairness, inequity, and inefficiency in the existing disability retirement system became extensive. A new system for disability retirement was created by the Career Compensation Act of 1949. Under this system, all disabilities had to be rated under the standard schedule of rating disabilities in use by the Veterans Administration, and the resultant ratings became a

factor in disability retired pay entitlement and taxability. The new system covered officer and enlisted personnel of both the regular and reserve components, and it authorized temporary as well as permanent disability retirements. The disability retirement system remains basically unchanged from the way it was enacted in 1949.

Meanwhile, the Officer Personnel Act of 1947 brought the Army and Air Force under a selection process similar to the Navy system. It also provided that those officers who failed promotion and were not eligible to retire would receive severance pay of two months per year of service, not to exceed two years' pay.

Standardized nondisability retirement laws for all Services were brought about by the Army and Air Force Vitalization Act of 1948. The act established 20 years as the minimum requirement for voluntary retirement, thereby placing the Army and Air Force on a par with the Navy. It also provided for the removal of substandard officers with severance pay equal to one month's pay per year of service, not to exceed one year's pay.

Public Law 96-513 changed the retired pay formula for persons who first became a service member after September 7, 1980. For this group the 2 ½ percent times years of service is multiplied by the average of the highest 36 months of pay, rather than by the final pay.

Public Law 99-348, enacted July 1, 1986, made extensive changes in retired pay formula for persons entering the service after July 31, 1986. These persons are credited with 2 percent for each of the first twenty years of service and 3 ½ percent for each of the next 10 years. At the member's age 62 the annuity is recomputed to equal the annuity that would have been in effect if a level 2 ½ percent had been used for each year of service. In addition the cost-of-living adjustment for this group no longer keeps up with inflation, as described later.

Public Law 106-65, enacted October 1, 1999, enhanced benefits for military members previously covered by the REDUX benefit formula (those who entered service on or after August 1, 1986). At the 15 year-of-service mark, these (full-time) members now have the choice of remaining under the REDUX formula and receiving a \$30,000 bonus, which is not paid out of the Military Retirement Fund, or reverting to the more generous high-3 formula. Those who elect the bonus must commit to remaining continuously in service until completing 20 years or forfeit a portion of the \$30,000. Part-time reservists previously covered by REDUX will not have the option of electing the bonus, hence will automatically revert to the high-3 benefit formula.

#### Cost-of-Living Adjustments

Prior to 1958, retired pay was generally increased in direct proportion to changes in active duty pay. The practice was discontinued with the act of May 1958, (P.L. 85-422) when it was realized that a single 6 percent cost-of-living increase would cost only \$35 million, as opposed to \$65 million for linking the retired pay to active duty pay. The 6 percent approximated the increase in the cost-of-living since 1955 when retired pay was last increased. In 1963, a permanent system of increasing retired pay (P.L. 88-132), based on a formula geared to increases in the cost-of-living, was adopted. In 1965, the adjustment

mechanism was modified slightly (P.L. 89-132). This system granted cost-of-living increases whenever the Consumer Price Index (CPI) went up at least 3 percent and remained up for three months. The benefit increase was equal to the percentage rise in the CPI. In 1969 (P.L. 91-179), an additional 1 percent was added to compensate for the fact that five months lapsed between the time that the index increased 3 percent and the time that benefits increased.

Effective March 1977, cost-of-living adjustments were scheduled to occur every six months, on March 1 and September 1, to be reflected in checks issued those months and the additional 1 percent was eliminated (P.L. 94-440). The cost-of-living increase effective March 1 was computed by calculating the percentage increase (adjusted to the nearest tenth of a percent) in the CPI from the previous June to the previous December. Similarly, the cost-of-living increase effective September 1 was obtained by calculating the percentage increase in the June CPI over the CPI from the previous December.

In August 1981 (P.L. 97-35), once-a-year cost-of-living increases were implemented by eliminating the September increase. Full annual cost-of-living increases were given in March of each year based on the percentage increase in the CPI between the two previous Decembers.

In August 1982, P.L. 97-253 created a temporary deviation to the calculation and timing of the cost-of-living increase. Consequently, in FY83 the increase was delayed until April and the full increase of 3.9 percent was given only to survivors, disabled persons and nondisabled persons over age 61. Nondisabled retirees under age 62 received 3.3 percent instead of 3.9 percent.

Public Law 98-270, enacted in April 1984, eliminated the FY84 increase and modified the permanent law. Under the modified system the cost-of-living adjustment equals the percentage increase in the average of the CPI's for July, August and September over the averaged indexes for the same three months of the prior year. These increases become effective for entitlements earned in December. Public Law 98-369 directed that entitlements for a particular month should be paid at the beginning of the subsequent month rather than at the end of the month of entitlement and became effective with the December 1984 adjustment.

Public Law 99-348, enacted July 1, 1986, changed the cost-of-living increase for members entering the service after July 31, 1986. Their retiree and survivor benefits are increased annually by the full cost-of-living adjustment minus 1 percent. A one-time catchup is given on the first day of the month after the *retiree's* 62nd birthday. At this time, the retiree benefit (or survivor benefit if the retiree is deceased) is increased to the amount that would have been payable had full adjustments been made. Annual partial increases continue after this catchup. For persons entering the service prior to August 1, 1986, full cost-of-living adjustments are still applied to the retiree and survivor benefits. Because of Public Law 106-65, full COLAs are now also applied to the retiree and survivor benefits of post July 31, 1986 entrants who do not elect to remain under the REDUX benefit formula. Retired pay increases from 1958 to the present time are shown in Table B-1 and basic pay increases are shown in Table B-2.

### Funding of Retirement Benefits

Prior to 1935, the Navy had a pension fund which provided for payments to persons retired for disability whenever there was a sufficient amount in the fund. The income to the fund consisted of the Government's share of the proceeds from the sale of enemy or pirate ships captured by the Navy, and from interest received on fund investments. This fund was abolished in 1935, and the military retirement system moved to an unfunded or "pay-as-you-go" basis. Public Law 98-94 (currently chapter 74 of title 10, U.S.C.), signed in September 1983, established a military retirement fund starting October 1, 1984.

This funding law states that DoD will make normal cost payments into the fund and the Treasury Department will make payments from general revenues to amortize the unfunded liability. Public Law 99-661, enacted in November 1986, mandated that two separate normal cost percentages (NCPs) be used to compute the normal cost payment of the military retirement system. One NCP is for active-duty personnel and reservists (full-time) and the second NCP is for drilling reservists (part-time). These normal cost payments are designed to be sufficient to pay for the future retirement benefits for a cohort of new entrants. The unfunded liability exists primarily because such payments were not made in the past.

The original funding law also established an independent three-member Retirement Board of Actuaries, appointed by the President. The Board is required to set assumptions for determining the normal cost and unfunded liability, to review valuations of the military retirement system, to determine the method of amortizing unfunded liabilities, to annually report to the Secretary of Defense, and to report to the President and the Congress on the status of the fund not less than every four years.

**TABLE B-1**  
**MILITARY RETIRED PAY COST-OF-LIVING INCREASES**  
**(JUNE 1958 TO PRESENT)**

<u>Date of Increase</u>	<u>Percentage Increase</u>	<u>Cumulative % From</u> <u>Date of Increase</u>
6/1/58	6.0%	543.5%
10/1/63	5.0%	507.1%
9/1/65	4.4%	478.2%
12/1/66	3.7%	453.8%
4/1/68	3.9%	434.0%
2/1/69	4.0%	414.0%
11/1/69	5.3%	394.2%
<hr/>		
8/1/70	5.6%	369.4%
6/1/71	4.5%	344.5%
7/1/72	4.8%	325.3%
7/1/73	6.1%	305.8%
1/1/74	5.5%	282.5%
7/1/74	6.3%	262.6%
1/1/75	7.3%	241.1%
8/1/75	5.1%	217.9%
3/1/76	5.4%	202.5%
<hr/>		
3/1/77	4.8%	187.0%
9/1/77	4.3%	173.8%
3/1/78	2.4%	162.5%
9/1/78	4.9%	156.4%
3/1/79	3.9%	144.4%
9/1/79	6.9%	135.2%
3/1/80	6.0%	120.0%
9/1/80	7.7%	107.6%
<hr/>		
3/1/81	4.4%	92.7%
3/1/82	8.7%	84.6%
4/1/83	3.9% (1)	69.8%
<hr/>		
12/1/84	3.5% (2)	63.5%
12/1/85	0.0% (3)	57.9%
12/1/86	1.3%	57.9%
12/1/87	4.2%	55.9%
12/1/88	4.0%	49.6%
12/1/89	4.7%	43.9%
12/1/90	5.4%	37.4%
12/1/91	3.7%	30.4%
12/1/92	3.0%	25.7%
3/1/94	2.6% (4)	22.1%
3/1/95	2.8% (5)	19.0%
3/1/96	2.6% (6)	15.7%
12/1/96	2.9%	12.8%
12/1/97	2.1%	9.6%
12/1/98	1.3%	7.4%
12/1/99	2.4%	6.0%
12/1/00	3.5%	3.5%

(1) Nondisabled retirees under age 62 received 3.3%.

(2) Starting December 1984, entitlements earned in a particular month are paid at the beginning of the next month.

(3) A cost-of-living adjustment of 3.1%, scheduled for 12/1/85, was suspended as a consequence of P.L. 99-177.

(4) Disabled retirees and survivors received 2.6% on 12/1/93.

(5) Disabled retirees and survivors received 2.8% on 12/1/94.

(6) Disabled retirees and survivors received 2.6% on 12/1/95.

**TABLE B-2**  
**MILITARY BASIC PAY SCALE INCREASES**  
**(JUNE 1958 TO PRESENT)**

<u>Date of Increase</u>	<u>Percentage Increase</u>	<u>Cumulative % From Date of Increase</u>
6/1/58	8.3%	862.0%
10/1/63	14.2%	788.3%
9/1/64	2.3%	677.8%
9/1/65	10.4%	660.3%
7/1/66	3.2%	588.7%
10/1/67	5.6%	567.3%
7/1/68	6.9%	532.0%
7/1/69	12.6%	491.2%
1/1/70	8.1%	425.0%
1/1/71	7.9%	385.7%
11/14/71	11.6%	350.1%
1/1/72	7.2%	303.3%
10/1/72	6.7%	276.2%
10/1/73	6.2%	252.6%
10/1/74	5.5%	232.0%
10/1/75	5.0%	214.7%
10/1/76	3.6%	199.7%
10/1/77	6.2%	189.3%
10/1/78	5.5%	172.4%
10/1/79	7.0%	158.2%
10/1/80	11.7%	141.3%
10/1/81	14.3% (1)	116.1%
10/1/82	4.0% (2)	89.0%
1/1/84	4.0% (2)	81.8%
1/1/85	4.0%	74.8%
10/1/85	3.0%	68.0%
1/1/87	3.0%	63.1%
1/1/88	2.0%	58.4%
1/1/89	4.1%	55.3%
1/1/90	3.6%	49.2%
1/1/91	4.1%	44.0%
1/1/92	4.2%	38.3%
1/1/93	3.7%	32.7%
1/1/94	2.2%	28.0%
1/1/95	2.6%	25.2%
1/1/96	2.4%	22.1%
1/1/97	3.0%	19.2%
1/1/98	2.8%	15.7%
1/1/99	3.6%	12.6%
1/1/00	4.8%	8.7%
1/1/01	3.7%	3.7%

(1) Basic pay increases for enlisted personnel ranged from 10% for E-1; 10.7% for E-2, E-3; 13% for E-4; 16.5% for E-5, E-6; and 17% for E-7, E-8, E-9. For officers, the increase was 14.3%.

(2) Except for E-1 with less than 4 months service.

## APPENDIX C

### VALUATION POPULATION DATA

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# Officers Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2000 Valuation

## Years of Active Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	Avg
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	1,783	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,783	
20	1,904	1,891	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,901	
21	2,013	1,941	2,248	2,122	3,489	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,050	
22	2,002	1,981	2,114	2,182	2,439	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,004	
23	2,012	2,015	2,427	2,447	2,315	2,370	3,185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,021	
24	2,042	2,046	2,583	2,857	2,516	2,473	2,620	2,513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,215	
25	2,107	2,130	2,621	2,997	2,984	2,617	2,503	2,678	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,592	
26	2,332	2,201	2,668	3,021	3,384	3,015	2,842	2,791	2,661	3,840	3,185	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,914	
27	2,408	2,393	2,690	3,041	3,408	3,430	3,218	2,893	2,719	2,769	2,523	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,128	
28	2,490	2,533	2,823	3,042	3,372	3,454	3,572	3,130	2,908	2,830	2,872	3,254	4,190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,238	
29	2,583	2,570	2,886	3,113	3,328	3,438	3,600	3,567	3,216	2,951	2,893	2,970	2,952	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,329	
30	2,628	2,645	2,952	3,166	3,361	3,413	3,581	3,641	3,730	3,221	3,065	2,928	3,123	3,185	2,627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,423	
31	2,800	2,801	3,034	3,190	3,413	3,437	3,538	3,667	3,801	3,777	3,396	3,090	3,099	3,166	2,513	3,120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,530	
32	2,866	2,980	3,227	3,366	3,413	3,472	3,700	3,676	3,792	3,862	4,021	3,398	3,184	3,161	3,212	3,679	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,649	
33	3,102	3,192	3,399	3,465	3,547	3,512	3,767	3,748	3,812	3,917	4,064	4,162	3,522	3,266	3,217	3,297	3,533	0	0	0	0	0	0	0	0	0	0	0	0	0	3,785	
34	3,070	3,328	3,497	3,566	3,692	3,648	3,768	3,799	3,918	3,939	4,061	4,289	4,411	3,503	3,377	3,373	3,386	4,488	0	0	0	0	0	0	0	0	0	0	0	0	3,952	
35	3,335	3,378	3,495	3,761	3,778	3,648	3,801	3,843	3,970	4,035	4,051	4,330	4,483	4,419	3,682	3,444	3,487	3,490	4,085	0	0	0	0	0	0	0	0	0	0	0	4,069	
36	3,575	3,458	3,610	3,859	3,880	3,860	3,965	3,974	3,983	4,078	4,189	4,306	4,479	4,546	4,555	3,756	3,560	3,589	3,692	4,093	0	0	0	0	0	0	0	0	0	0	4,203	
37	3,514	3,429	3,698	3,943	4,002	3,948	4,059	4,052	4,085	4,123	4,218	4,290	4,431	4,552	4,679	4,606	3,873	3,691	3,790	3,896	3,984	0	0	0	0	0	0	0	0	0	4,311	
38	3,628	3,518	3,647	3,888	3,972	3,918	4,116	4,125	4,133	4,200	4,290	4,312	4,528	4,495	4,613	4,736	4,836	4,042	3,938	4,026	4,100	3,798	3,295	0	0	0	0	0	0	0	4,453	
39	3,762	3,385	3,697	4,079	4,031	4,064	4,220	4,160	4,258	4,212	4,363	4,390	4,576	4,576	4,607	4,756	4,970	5,047	4,333	4,087	4,132	4,196	4,369	0	0	0	0	0	0	0	4,630	
40	4,111	3,355	3,428	4,025	4,120	4,106	4,317	4,110	4,326	4,283	4,378	4,381	4,530	4,615	4,691	4,696	4,954	5,223	5,264	4,363	4,225	4,228	4,355	3,988	0	0	0	0	0	0	4,794	
41	4,138	3,308	3,745	4,017	4,280	4,130	4,144	4,115	4,375	4,306	4,427	4,429	4,502	4,599	4,830	4,757	4,868	5,119	5,336	5,343	4,579	4,331	4,405	4,457	4,513	0	0	0	0	4,935		
42	3,972	3,489	3,790	4,284	4,394	4,454	4,301	4,354	4,296	4,427	4,577	4,499	4,676	4,694	4,788	4,927	5,065	5,089	5,265	5,417	5,579	4,736	4,536	4,551	4,639	4,722	0	0	0	5,092		
43	4,024	3,408	3,910	4,149	4,156	4,375	4,198	4,536	4,392	4,476	4,552	4,717	4,698	4,831	4,894	4,913	5,111	5,189	5,239	5,354	5,621	5,777	4,811	4,603	4,639	4,695	4,663	0	0	5,224		
44	4,473	3,374	3,701	4,540	4,028	4,389	4,329	4,294	4,435	4,404	4,669	4,634	4,703	4,806	4,841	4,958	5,165	5,313	5,487	5,395	5,588	5,822	6,079	4,982	4,757	4,869	4,905	4,968	0	5,374		
45	4,828	4,176	4,254	4,496	4,407	4,212	4,557	4,396	4,451	4,576	4,765	4,653	4,716	4,902	5,000	5,036	5,127	5,243	5,472	5,568	5,561	5,846	6,223	6,250	5,186	4,938	4,947	4,999	4,856	5,570		
46	4,207	3,869	4,023	4,410	4,796	4,405	4,436	4,430	4,516	4,528	4,760	4,711	4,733	4,767	5,072	5,044	5,265	5,423	5,507	5,648	5,908	5,833	6,115	6,349	6,456	5,200	5,239	5,148	5,147	5,278	5,729	
47	4,778	4,503	4,299	4,282	4,373	4,636	4,538	4,440	4,650	4,915	4,819	4,826	4,932	4,791	5,015	5,187	5,281	5,119	5,592	5,572	5,914	5,963	6,056	6,297	6,461	6,634	5,713	5,300	5,350	5,227	6,132	5,881
48	5,100	4,549	4,383	4,586	5,541	4,761	4,666	5,094	4,696	4,531	4,886	4,734	5,038	5,207	5,088	5,061	5,306	5,528	5,513	5,681	5,988	6,217	6,306	6,289	6,418	6,655	6,969	5,721	5,276	5,427	6,039	
49	5,341	4,906	4,513	4,556	4,319	4,711	4,949	5,143	4,994	4,879	4,735	4,920	4,961	5,221	5,097	5,234	5,475	5,516	5,618	5,740	5,893	6,072	6,237	6,453	6,305	6,579	6,949	7,071	5,746	5,625	5,809	6,162
50	5,603	5,457	4,929	5,862	4,616	4,619	5,258	4,554	4,649	5,101	5,035	5,119	5,403	5,225	5,428	5,477	5,519	5,664	5,826	5,824	5,913	6,094	6,368	6,404	6,373	6,524	6,825	7,071	7,178	6,071	6,232	6,351
51	4,961	5,980	5,329	4,803	4,781	5,427	5,704	5,790	4,417	5,164	5,163	5,115	5,515	5,483	5,204	5,508	5,455	5,691	5,815	5,932	6,032	6,151	6,338	6,529	6,438	6,699	6,604	6,957	7,342	7,362	6,198	6,437
52	5,789	6,254	5,417	5,279	4,797	4,124	5,178	5,350	5,388	4,977	4,843	5,155	5,369	5,304	5,852	5,492	5,691	5,692	5,765	6,110	6,043	6,404	6,281	6,700	6,488	6,688	6,705	6,953	7,103	7,329	6,974	6,492
53	6,323	6,286	5,182	5,734	5,392	5,443	4,554	5,213	5,530	5,293	5,090	5,247	5,454	5,374	5,410	5,470	5,760	6,008	5,758	5,934	6,225	6,157	6,643	6,138	6,446	6,754	6,752	6,948	7,074	7,217	7,251	6,470
54	5,633	6,351	5,374	5,442	5,443	5,343	5,950	5,124	5,909	5,094	4,946	5,496	5,458	5,363	5,795	5,542	5,976	5,964	5,787	5,957	5,990	6,268	6,574	6,102	6,678	6,907	6,566	6,653	7,048	7,079	7,683	6,581
55	5,816	5,930	6,389	7,310	5,527	5,659	5,631	5,518	5,592	5,478	5,437	5,367	5,793	5,465	5,437	5,446	6,037	6,283	5,948	5,556	6,051	6,593	6,518	7,025	6,540	6,761	6,876	7,029	7,073	6,940	7,969	6,711
56	5,252	7,248	5,965	5,839	5,637	6,311	6,040	5,914	4,841	4,919	5,125	5,685	6,314	5,281	5,691	6,901	6,158	6,254	5,668	6,076	6,228	6,266	6,508	6,928	6,914	6,478	7,038	6,583	7,226	7,029	8,187	6,736
57	5,760	5,003	5,930	5,479	4,601	4,343	4,987	5,120	5,969	5,412	4,584	5,230	5,590	6,401	6,278	4,868	5,774	5,629	6,291	6,292	6,237	5,872	6,848	6,515	6,941	6,479	6,305	6,858	7,088	7,022	7,961	6,481
58	0	7,310	4,499	6,972	0	5,716	4,591	7,310	5,648	4,548	5,537	7,288	5,711	5,219	6,414	5,762	6,297	5,565	5,954	6,467	6,336	6,302	6,635	6,934	6,949	6,734	6,770	6,860	6			

## Enlisted Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2000 Valuation

Age	Years of Active Service																														Avg			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30+		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,038
18	1,053	1,184	1,424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,054
19	1,075	1,197	1,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,111
20	1,115	1,202	1,348	1,483	1,043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,199
21	1,128	1,211	1,354	1,484	1,611	1,602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,285
22	1,139	1,217	1,362	1,490	1,605	1,630	1,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,367
23	1,150	1,224	1,371	1,497	1,607	1,636	1,768	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,432
24	1,168	1,231	1,382	1,505	1,609	1,638	1,736	1,783	1,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,486
25	1,180	1,240	1,393	1,512	1,614	1,643	1,738	1,770	1,887	1,852	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,546
26	1,194	1,253	1,404	1,519	1,621	1,649	1,740	1,772	1,871	1,873	2,197	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,608
27	1,215	1,259	1,417	1,527	1,631	1,657	1,743	1,776	1,868	1,898	2,005	1,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,670
28	1,260	1,282	1,424	1,540	1,637	1,668	1,753	1,785	1,871	1,898	2,004	2,068	1,893	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,732
29	1,282	1,297	1,450	1,551	1,651	1,682	1,770	1,797	1,875	1,905	1,997	2,039	2,253	2,326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,799
30	1,349	1,325	1,465	1,570	1,667	1,696	1,786	1,815	1,886	1,917	2,003	2,029	2,143	2,176	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,866
31	1,418	1,362	1,495	1,588	1,678	1,717	1,812	1,833	1,900	1,932	2,014	2,037	2,140	2,172	2,284	2,102	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,941
32	1,487	1,399	1,533	1,610	1,713	1,734	1,827	1,855	1,916	1,951	2,030	2,051	2,139	2,167	2,257	2,313	2,376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,017
33	1,512	1,431	1,586	1,623	1,733	1,753	1,849	1,875	1,925	1,955	2,044	2,056	2,146	2,166	2,252	2,317	2,497	1,831	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,089
34	1,592	1,482	1,636	1,689	1,763	1,797	1,868	1,895	1,949	1,989	2,056	2,075	2,153	2,175	2,252	2,326	2,429	2,559	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,169
35	1,655	1,527	1,638	1,719	1,793	1,837	1,895	1,903	1,973	1,991	2,069	2,087	2,169	2,182	2,262	2,328	2,421	2,516	2,513	2,540	0	0	0	0	0	0	0	0	0	0	0	0	0	2,241
36	2,145	1,575	1,680	1,801	1,802	1,878	1,952	1,956	1,998	2,022	2,104	2,105	2,188	2,197	2,271	2,327	2,420	2,506	2,587	2,653	3,138	0	0	0	0	0	0	0	0	0	0	0	0	2,328
37	2,332	1,885	1,701	1,812	1,915	1,929	1,953	2,017	2,011	2,070	2,123	2,131	2,204	2,218	2,281	2,341	2,425	2,498	2,574	2,633	2,828	0	0	0	0	0	0	0	0	0	0	0	0	2,408
38	2,425	2,247	1,973	1,829	2,015	1,937	2,007	2,058	2,077	2,120	2,149	2,142	2,214	2,231	2,299	2,350	2,430	2,500	2,557	2,617	2,824	2,875	0	0	0	0	0	0	0	0	0	0	0	2,475
39	2,439	2,411	2,288	2,116	1,939	1,979	2,030	2,079	2,111	2,129	2,223	2,171	2,248	2,244	2,316	2,374	2,434	2,510	2,553	2,609	2,816	2,951	3,281	0	0	0	0	0	0	0	0	0	0	2,539
40	2,456	2,306	2,315	2,447	2,154	1,930	2,087	2,089	2,148	2,137	2,246	2,196	2,243	2,272	2,330	2,368	2,440	2,516	2,560	2,607	2,814	2,963	3,193	3,318	0	0	0	0	0	0	0	0	2,600	
41	2,490	2,237	2,330	2,455	2,526	2,218	2,124	2,140	2,156	2,136	2,265	2,270	2,305	2,289	2,338	2,368	2,470	2,511	2,576	2,608	2,826	2,978	3,206	3,291	3,831	4,061	0	0	0	0	0	0	2,670	
42	2,544	2,540	2,369	2,500	2,566	2,533	2,240	2,083	2,174	2,225	2,241	2,271	2,350	2,288	2,362	2,390	2,463	2,525	2,573	2,617	2,837	2,981	3,196	3,304	3,576	3,714	0	0	0	0	0	0	2,742	
43	2,537	2,367	2,402	2,566	2,523	2,435	2,624	2,370	2,204	2,166	2,309	2,300	2,352	2,380	2,396	2,419	2,494	2,541	2,596	2,611	2,841	2,996	3,169	3,329	3,580	3,665	4,016	0	0	0	0	0	2,805	
44	2,668	2,431	2,524	2,747	2,708	2,623	2,413	2,651	2,427	2,237	2,325	2,375	2,367	2,387	2,488	2,489	2,505	2,575	2,591	2,643	2,849	3,006	3,192	3,317	3,545	3,686	3,944	4,023	0	0	0	0	2,871	
45	2,709	2,472	2,424	2,740	2,763	2,568	2,553	2,700	2,653	2,522	2,344	2,360	2,378	2,374	2,419	2,465	2,545	2,580	2,608	2,637	2,884	3,003	3,214	3,314	3,592	3,693	3,967	4,014	3,986	0	0	2,937		
46	2,738	2,715	2,613	2,724	2,818	2,603	2,554	2,828	2,557	2,696	2,561	2,351	2,325	2,437	2,483	2,533	2,550	2,612	2,627	2,664	2,901	2,998	3,235	3,313	3,592	3,711	3,975	4,036	4,061	4,061	0	3,003		
47	2,956	2,652	2,575	2,775	2,672	2,712	2,691	2,649	2,658	2,814	2,719	2,541	2,508	2,432	2,491	2,560	2,568	2,663	2,680	2,678	2,936	3,010	3,186	3,299	3,576	3,648	3,976	4,014	4,058	4,061	0	3,045		
48	2,957	2,917	2,703	2,788	2,824	2,780	2,782	2,730	2,835	2,802	2,801	2,769	2,737	2,459	2,641	2,681	2,701	2,724	2,761	2,759	2,980	3,045	3,234	3,331	3,567	3,694	4,006	4,034	4,055	4,039	4,061	3,133		
49	2,991	2,762	2,927	2,946	2,740	2,514	2,737	2,819	2,901	3,005	2,989	2,897	2,730	2,587	2,638	2,669	2,815	2,815	2,849	2,780	3,067	3,079	3,274	3,328	3,633	3,718	3,954	4,020	4,057	4,061	4,061	3,171		
50	3,164	3,015	2,965	2,791	2,802	2,975	2,932	2,695	2,894	3,078	2,843	3,010	3,028	2,978	2,886	2,722	2,732	2,956	2,878	2,812	3,141	3,176	3,298	3,387	3,591	3,639	3,966	3,992	4,061	4,061	4,061	3,157		
51	2,991	2,765	2,943	2,864	2,865	2,930	2,910	2,946	2,982	2,725	2,757	2,918	2,944	2,894	3,143	3,018	2,856	2,993	2,972	2,896	3,216	3,315	3,366	3,516	3,590	3,663	3,963	4,019	4,050	4,061	4,044	3,156		
52	3,148	3,085	3,000	3,058	2,869	3,103	2,939	2,949	2,704	2,814	3,019	2,849	3,029	3,114	3,032	3,025	2,940	2,939	2,973	2,976	3,170	3,297	3,403	3,465	3,561	3,820	3,926	3,848	4,061	4,061	3,632	3,138		
53	3,227	3,001	3,026	3,152	2,998	3,087	2,980	3,101	2,902	3,073	3,041	3,041	3,016	2,987	2,959	3,056	3,136	3,104	2,934	3,123	3,393	3,270	3,562	3,506	3,557	3,796	3,939	3,979	4,061	4,011	3,946	3,181		
54	3,236	3,114	3,048	3,061	3,076	2,895	2,867	3,069	3,265	2,991	3,220	3,119	2,989	2,903	2,977	3,160	3,185	3,279	3,183	3,039	3,391	3,373	3,448	3,361	3,643	3,557	3,720	4,061	4,061	4,061	3,997	3,205		
55	3,266	3,294	2,925	3,051	3,032	3,299	2,924	3,096	2,818	3,085	3,158	3,054	2,984	3,021	3,059	3,101	3,106	3,255	3,287	3,169	3,229	3,363	3,244	3,251	3,837	3,724	3,858	4,061	3,859	4,061	4,061	3,194		
56	3,251	3,565	3,038	2,953	3,064	2,990	2,959	3,363	3,505	3,136	2,931	3,292	3,154	3,082	3,392	3,086	3,090	3,312	3,339	3,500	3,608	3,386	3,642	3,601	3,837	3,972	4,061	0	0	0	4,061	3,253		
57	3,226	3																																

## All DOD Average Monthly Active Duty Basic Pay by Active Years of Service and Age for FY2000 Valuation

Age	Years of Active Service																														Avg			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		30+		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1,038	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,038
18	1,053	1,184	1,424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,054
19	1,075	1,197	1,334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,111
20	1,115	1,202	1,348	1,483	1,043	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,199
21	1,130	1,211	1,354	1,484	1,658	1,602	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,286
22	1,262	1,220	1,363	1,490	1,605	1,630	1,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,382
23	1,395	1,386	1,375	1,498	1,607	1,637	1,897	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,474
24	1,359	1,512	1,622	1,511	1,610	1,639	1,740	1,835	1,653	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,564
25	1,301	1,470	1,822	1,819	1,628	1,647	1,740	1,775	1,887	1,852	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,681
26	1,373	1,435	1,767	2,054	2,093	1,680	1,749	1,778	1,880	2,092	2,691	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,806
27	1,446	1,500	1,669	1,965	2,381	2,212	1,786	1,791	1,879	1,914	2,045	1,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,913
28	1,505	1,579	1,770	1,868	2,217	2,497	2,325	1,837	1,892	1,921	2,041	2,207	2,658	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,006
29	1,519	1,579	1,838	1,927	2,128	2,368	2,665	2,319	1,945	1,938	2,029	2,087	2,400	2,326	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,098
30	1,568	1,668	1,826	2,037	2,158	2,285	2,564	2,695	2,468	2,001	2,047	2,262	2,211	2,627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,198
31	1,683	1,774	1,909	1,929	2,257	2,376	2,450	2,666	2,852	2,587	2,116	2,094	2,195	2,248	2,330	2,442	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,309
32	1,798	1,828	2,048	2,018	2,155	2,423	2,546	2,497	2,759	2,937	2,769	2,145	2,207	2,231	2,330	2,561	2,376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,394
33	1,843	1,985	2,118	2,142	2,177	2,323	2,569	2,571	2,602	2,914	3,105	2,823	2,274	2,235	2,316	2,398	2,784	1,831	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,475
34	1,877	1,953	2,203	2,181	2,230	2,308	2,556	2,632	2,754	2,767	3,019	3,304	2,953	2,283	2,320	2,397	2,513	3,018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,573
35	2,046	1,975	2,098	2,277	2,292	2,466	2,536	2,538	2,827	2,809	2,854	3,223	3,407	2,880	2,367	2,408	2,509	2,615	2,753	2,540	0	0	0	0	0	0	0	0	0	0	0	0	0	2,657
36	2,596	2,047	2,204	2,358	2,315	2,428	2,597	2,563	2,739	2,834	2,917	2,992	3,324	3,321	2,993	2,430	2,502	2,599	2,669	2,859	3,138	0	0	0	0	0	0	0	0	0	0	0	0	2,742
37	2,666	2,564	2,262	2,366	2,405	2,524	2,585	2,649	2,740	2,808	3,061	3,077	3,099	3,229	3,377	3,056	2,554	2,591	2,655	2,730	2,917	0	0	0	0	0	0	0	0	0	0	0	0	2,823
38	2,748	2,970	2,667	2,223	2,545	2,523	2,583	2,766	2,794	2,871	2,961	3,038	3,109	3,050	3,227	3,410	3,196	2,638	2,641	2,700	2,951	2,997	3,295	0	0	0	0	0	0	0	0	0	2,900	
39	2,845	2,960	3,052	2,796	2,478	2,643	2,660	2,738	2,823	2,954	3,007	3,014	3,171	3,018	3,152	3,357	3,547	3,314	2,705	2,698	2,926	3,101	3,504	0	0	0	0	0	0	0	0	0	3,031	
40	2,900	2,896	2,872	3,092	2,770	2,591	2,716	2,751	2,886	2,933	2,997	2,969	3,044	3,166	3,160	3,161	3,438	3,666	3,472	2,740	2,962	3,114	3,373	3,485	0	0	0	0	0	0	0	0	3,187	
41	2,856	2,816	3,147	3,053	3,332	2,978	2,680	2,677	2,880	2,855	3,015	3,139	3,152	3,041	3,184	3,177	3,286	3,527	3,812	3,556	3,044	3,143	3,382	3,495	4,104	4,061	0	0	0	0	0	0	3,368	
42	2,866	3,050	3,218	3,176	3,388	3,686	3,148	2,815	2,902	2,996	2,987	3,091	3,155	3,125	3,207	3,330	3,396	3,366	3,663	3,930	4,187	3,236	3,394	3,525	3,817	4,106	0	0	0	0	0	0	3,563	
43	2,884	2,821	2,953	3,146	3,239	3,523	3,612	3,418	2,916	2,936	3,146	3,139	3,114	3,277	3,323	3,283	3,438	3,480	3,499	3,729	4,459	4,658	3,496	3,545	3,784	3,937	4,184	0	0	0	0	0	3,729	
44	3,064	2,739	3,158	3,507	3,233	3,699	3,505	3,493	3,496	3,069	3,237	3,304	3,320	3,170	3,504	3,381	3,427	3,521	3,590	3,640	4,286	4,901	4,955	3,695	3,818	4,010	4,238	4,301	0	0	0	0	3,913	
45	3,097	3,229	3,313	3,441	3,254	3,166	3,408	3,378	3,758	3,488	3,367	3,236	3,222	3,391	3,289	3,354	3,392	3,497	3,684	3,748	4,176	4,660	5,267	5,146	4,094	3,989	4,252	4,276	4,382	0	0	0	4,091	
46	3,112	3,082	3,269	3,257	3,466	3,523	3,604	3,429	3,716	3,733	3,661	3,417	3,229	3,144	3,434	3,594	3,519	3,678	3,657	3,888	4,452	4,512	5,056	5,607	5,694	4,179	4,391	4,381	4,458	4,408	0	0	4,331	
47	3,430	3,644	3,375	3,264	3,342	3,709	3,340	3,356	3,923	3,828	3,869	3,605	3,486	3,417	3,397	3,597	3,528	3,481	3,858	3,758	4,659	4,749	4,794	5,516	5,924	5,903	4,751	4,443	4,509	4,422	6,132	0	4,535	
48	3,304	3,589	3,249	3,302	3,402	3,945	3,724	4,161	3,781	3,745	3,739	3,737	3,657	3,463	3,522	3,554	3,712	3,818	3,899	4,068	4,475	4,942	5,179	5,177	5,744	5,981	6,522	4,657	4,486	4,578	4,965	0	4,688	
49	3,379	3,528	3,486	3,402	3,091	3,528	4,013	3,981	4,047	3,926	4,103	3,891	3,843	3,541	3,563	3,596	3,763	3,844	3,914	3,960	4,692	4,984	5,021	5,375	5,524	5,849	6,498	6,509	4,620	4,531	5,429	0	4,807	
50	3,679	3,748	3,367	3,200	3,327	3,660	3,778	3,371	3,749	4,068	3,596	3,976	3,960	4,200	3,748	3,689	3,675	3,799	4,108	3,948	4,590	4,859	5,419	5,476	5,578	5,621	6,261	6,644	6,817	4,901	5,864	0	4,965	
51	3,504	3,357	3,861	3,510	3,435	3,658	3,992	4,571	3,676	4,074	3,960	3,938	3,786	3,780	4,159	4,201	3,890	4,027	4,021	3,908	4,552	4,893	5,060	5,469	5,562	5,753	6,072	6,582	6,943	6,837	5,856	0	5,086	
52	3,616	3,748	3,546	3,729	3,494	3,343	3,806	3,909	4,161	3,775	3,767	3,813	4,323	3,775	3,986	3,974	4,006	3,937	4,283	4,157	4,536	4,817	5,459	5,782	5,787	6,252	6,260	6,487	6,637	6,929	6,806	0	5,113	
53	3,774	3,536	3,652	3,956	3,511	4,167	3,804	4,020	4,415	3,762	4,065	4,144	4,331	3,905	3,939	4,016	4,221	3,915	4,087	4,224	4,896	4,660	5,487	5,412	5,599	6,152	6,299	6,622	6,634	6,748	7,125	0	5,047	
54	3,649	3,903	3,589	3,735	3,622	4,201	4,409	3,982	4,146	4,224	4,113	4,155	4,457	3,688	3,732	4,181	4,167	3,957	4,072	4,043	4,543	4,843	5,681	5,350	5,450	6,364	6,269	6,283	6,707	6,702	7,591	0	5,068	
55	3,537	3,572	3,503	3,903	3,531	4,372	3,983	4,172	4,403	4,281	4,478	4,108	4,074	3,673	3,654	3,819	4,028	3,816	4,389	4,111	4,885	5,185	5,536	6,605	6,089	6,028	6,351	6,620	6,706	6,608	7,886	0	5,037	
56	3,721	4,981	3,192	3,674	3,677	3,544	3,986	5,064	3,950	3,900	3,970	4,396	4,369	3,815	4,343	3,871	4,173	4,341	4,437	4,949	5,220	5,047	5,648	6,453	6,474	6,165	6,863							

# Officers Active Duty Personnel by Years of Service and Age for FY2000 Valuation

## Years Of Active Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	49	6	3	6	1	0	0	0	0	0	0	0	0	0	0	0
22	2,029	52	18	8	4	0	0	0	0	0	0	0	0	0	0	0
23	3,334	2,658	63	32	18	8	1	0	0	0	0	0	0	0	0	0
24	1,653	3,779	2,348	61	25	21	15	1	0	0	0	0	0	0	0	0
25	624	1,713	3,501	2,374	89	33	32	22	0	0	0	0	0	0	0	0
26	551	841	1,816	3,511	2,125	149	73	59	40	1	1	0	0	0	0	0
27	504	651	792	1,791	3,009	1,922	167	112	111	55	1	0	0	0	0	0
28	397	577	728	935	1,540	2,760	1,756	225	152	177	138	2	1	0	0	0
29	301	414	629	766	932	1,608	2,687	1,595	284	203	275	185	4	0	0	0
30	236	378	443	731	778	972	1,668	2,548	1,689	298	268	343	232	2	1	0
31	196	308	331	365	644	774	905	1,577	2,460	1,542	290	344	395	272	5	1
32	191	217	281	264	327	559	637	762	1,538	2,120	1,427	270	364	465	292	4
33	154	204	202	237	230	314	463	575	742	1,433	1,935	1,401	323	384	522	300
34	127	131	169	172	180	200	333	478	623	757	1,272	2,211	1,325	339	408	553
35	151	127	127	160	149	205	220	294	509	589	697	1,554	2,017	1,305	350	499
36	142	110	116	136	127	139	191	200	327	443	541	825	1,466	2,017	1,440	359
37	102	117	114	113	101	109	122	172	232	320	464	656	855	1,318	1,959	1,480
38	96	91	85	73	104	89	86	137	174	225	300	421	585	752	1,245	1,869
39	99	66	71	80	87	77	76	103	121	181	200	280	421	545	776	1,169
40	76	63	57	56	47	72	70	94	105	131	156	192	238	428	542	682
41	49	46	45	44	69	64	60	59	76	101	110	161	201	246	377	536
42	44	43	46	36	49	51	52	59	71	76	90	116	135	186	277	395
43	38	24	19	33	43	46	49	45	53	72	81	84	103	150	216	273
44	32	16	21	36	35	39	49	41	57	68	70	86	102	102	193	198
45	20	12	17	31	23	16	32	24	59	48	71	73	74	99	128	149
46	28	7	20	24	20	24	24	27	42	47	61	75	65	74	105	150
47	25	15	13	12	13	14	13	15	40	42	40	47	67	66	88	103
48	23	14	13	14	10	20	17	23	30	30	45	34	40	57	72	91
49	19	10	12	15	8	12	15	17	23	29	37	29	32	42	70	77
50	26	15	9	4	11	10	8	8	19	23	22	22	31	37	39	60
51	25	7	25	16	11	7	12	16	15	26	22	26	19	26	35	48
52	14	9	14	16	12	4	12	10	19	12	16	23	26	19	23	35
53	12	7	18	19	9	11	11	10	19	9	20	20	18	25	30	35
54	10	10	10	15	6	8	7	8	5	17	15	17	22	15	15	33
55	5	2	4	5	2	5	9	4	8	6	11	7	9	8	9	15
56	8	5	1	7	5	1	4	8	3	6	9	6	5	8	12	7
57	6	5	2	3	2	4	1	1	5	7	7	6	3	6	9	7
58	0	1	3	4	0	4	1	1	3	4	8	4	6	5	7	12
59	2	2	0	4	1	3	0	3	3	1	6	3	6	9	1	6
60+	1	3	2	1	0	1	2	1	4	6	9	12	14	9	12	14
<b>Total</b>	<b>11,406</b>	<b>12,758</b>	<b>12,188</b>	<b>12,210</b>	<b>10,846</b>	<b>10,355</b>	<b>9,880</b>	<b>9,334</b>	<b>9,661</b>	<b>9,105</b>	<b>8,715</b>	<b>9,535</b>	<b>9,204</b>	<b>9,016</b>	<b>9,258</b>	<b>9,160</b>

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday

# Officers Active Duty Personnel by Years of Service and Age for FY2000 Valuation

Age	Years Of Active Service															Total	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,111	
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,114	
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,903	
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8,388	
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,167	
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,115	
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,388	
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,883	
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,587	
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,409	
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,718	
33	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,424	
34	316	5	0	0	0	0	0	0	0	0	0	0	0	0	0	9,599	
35	693	326	7	0	0	0	0	0	0	0	0	0	0	0	0	9,979	
36	553	674	299	12	0	0	0	0	0	0	0	0	0	0	0	10,117	
37	451	557	537	356	5	0	0	0	0	0	0	0	0	0	0	10,140	
38	1,514	430	417	512	288	7	1	0	0	0	0	0	0	0	0	9,501	
39	1,902	1,472	386	425	374	258	9	0	0	0	0	0	0	0	0	9,178	
40	1,182	1,746	1,466	354	330	379	238	7	0	0	0	0	0	0	0	8,711	
41	644	1,158	1,726	1,463	245	246	341	191	6	0	0	0	0	0	0	8,264	
42	512	599	1,011	1,746	1,170	188	227	311	158	7	0	0	0	0	0	7,655	
43	371	524	601	985	1,228	1,111	193	204	202	131	7	0	0	0	0	6,886	
44	250	363	484	589	659	1,026	827	172	161	199	115	5	0	0	0	5,995	
45	183	261	369	431	405	549	855	727	157	129	145	75	5	0	0	5,167	
46	136	201	241	358	309	312	459	810	654	114	132	133	71	2	0	4,725	
47	115	136	222	252	272	275	247	457	705	577	104	107	110	40	3	4,235	
48	113	142	156	190	158	207	195	204	349	550	507	78	125	92	15	3,614	
49	83	115	115	120	130	140	128	150	201	283	446	381	62	82	54	2,937	
50	65	80	101	103	92	90	105	117	125	147	228	386	336	84	103	2,506	
51	80	77	79	73	56	59	61	70	81	117	123	219	305	270	143	2,149	
52	43	66	84	66	58	46	55	53	73	67	84	119	155	258	226	1,717	
53	43	38	60	67	52	39	40	42	41	47	73	89	76	146	277	1,403	
54	38	25	43	53	39	33	25	37	25	31	43	54	70	84	273	1,086	
55	17	10	29	28	27	22	21	16	20	22	19	25	31	23	137	556	
56	12	21	25	27	16	15	21	24	12	14	16	10	16	26	106	456	
57	10	14	18	16	11	13	11	12	9	8	10	9	8	8	64	295	
58	15	9	11	17	6	7	10	8	9	7	5	6	5	6	49	233	
59	6	6	6	8	7	6	7	5	7	3	4	2	3	2	34	156	
60+	17	21	10	13	12	16	10	8	14	7	5	5	2	7	31	269	
<b>Total</b>	<b>9,369</b>	<b>9,076</b>	<b>8,503</b>	<b>8,264</b>	<b>5,949</b>	<b>5,044</b>	<b>4,086</b>	<b>3,625</b>	<b>3,009</b>	<b>2,460</b>	<b>2,066</b>	<b>1,703</b>	<b>1,380</b>	<b>1,130</b>	<b>1,515</b>	<b>229,810</b>	
	Average Age						35.34	Average YAS						10.90			

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday

## Enlisted Active Duty Personnel by Years of Service and Age for FY2000 Valuation

Age	Years Of Active Service															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	25,056	244	2	0	0	0	0	0	0	0	0	0	0	0	0	0
19	49,792	20,419	96	0	0	0	0	0	0	0	0	0	0	0	0	0
20	33,594	42,408	17,643	79	1	0	0	0	0	0	0	0	0	0	0	0
21	19,654	29,090	37,045	13,608	39	3	0	0	0	0	0	0	0	0	0	0
22	12,244	16,217	25,892	29,547	7,242	14	2	0	0	0	0	0	0	0	0	0
23	8,402	10,320	14,936	23,413	16,269	5,122	10	0	0	0	0	0	0	0	0	0
24	5,893	7,164	9,401	14,027	13,565	11,390	3,940	13	1	0	0	0	0	0	0	0
25	4,133	4,913	6,525	9,085	8,437	9,650	10,045	3,901	14	3	0	0	0	0	0	0
26	2,947	3,539	4,504	6,351	5,807	6,512	8,781	9,395	3,488	8	1	0	0	0	0	0
27	2,105	2,413	3,202	4,393	4,118	4,221	5,586	8,483	8,190	2,906	12	1	0	0	0	0
28	1,595	1,857	2,217	3,344	3,065	3,183	3,829	5,641	7,457	6,858	3,150	15	2	0	0	0
29	1,356	1,457	1,695	2,415	2,347	2,509	2,805	3,817	5,170	6,327	7,449	3,415	15	2	0	0
30	1,146	1,076	1,379	1,768	1,902	1,861	2,181	2,741	3,661	4,355	6,168	7,685	3,093	19	0	0
31	827	768	900	1,353	1,286	1,247	1,544	1,896	2,454	2,801	3,630	6,005	6,523	3,280	20	2
32	658	584	644	871	931	852	1,022	1,399	1,887	1,986	2,421	3,611	5,244	6,744	3,505	18
33	585	444	486	604	709	654	771	972	1,325	1,501	1,749	2,445	3,167	5,757	7,415	3,365
34	531	383	386	484	564	524	587	757	900	1,140	1,377	1,773	2,415	3,822	6,292	7,554
35	498	398	385	425	443	385	434	604	681	883	1,063	1,514	1,754	2,879	4,347	6,488
36	308	329	311	366	388	362	405	465	549	678	847	1,223	1,490	2,198	3,113	4,602
37	259	149	292	322	329	261	284	382	428	570	573	842	1,271	1,726	2,328	3,211
38	261	69	120	308	280	212	229	263	325	398	491	598	927	1,326	1,860	2,338
39	224	51	60	151	251	165	188	222	244	276	346	457	641	1,098	1,352	1,665
40	207	49	57	81	103	165	178	193	205	222	287	351	441	693	999	1,319
41	172	39	33	71	81	97	158	158	157	204	207	239	320	510	734	1,047
42	151	37	31	59	60	34	66	124	136	141	192	199	255	349	518	671
43	125	31	33	57	55	36	29	48	110	144	136	158	214	260	366	515
44	114	33	18	49	53	25	37	39	50	109	110	123	148	213	254	350
45	89	15	18	48	54	28	43	36	37	54	97	118	131	147	252	282
46	82	15	23	52	41	23	19	45	29	36	61	91	108	170	181	205
47	71	13	15	25	20	13	24	23	23	45	33	54	99	92	157	158
48	119	20	27	35	37	14	17	15	29	25	55	35	60	99	128	157
49	96	18	22	38	28	14	11	17	19	30	21	30	41	74	116	136
50	97	35	35	26	27	14	14	14	20	24	42	26	48	31	76	111
51	71	31	40	32	26	17	19	12	16	21	22	30	39	50	36	53
52	65	34	48	37	25	13	19	15	16	15	23	32	21	44	45	56
53	56	36	44	42	33	13	10	13	14	20	20	20	30	40	45	53
54	48	31	33	38	20	7	7	10	10	12	14	22	15	32	41	44
55	42	17	20	20	8	6	14	5	6	6	8	15	13	22	27	34
56	26	8	18	21	16	5	8	4	6	8	10	7	8	16	17	27
57	28	5	13	15	11	4	4	5	5	9	2	8	12	7	17	18
58	19	7	9	6	2	4	1	9	3	0	4	5	6	13	13	14
59	16	2	4	8	8	1	1	1	4	3	2	1	1	4	4	12
60+	6	0	5	4	1	1	1	1	1	1	1	3	3	5	4	6
Total	174,153	144,768	128,667	113,678	68,682	49,661	43,323	41,738	37,670	31,819	30,624	31,151	28,555	31,722	34,262	34,511

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday

## Enlisted Active Duty Personnel by Years of Service and Age for FY2000 Valuation

Age	Years Of Active Service															Total	
	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+		
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	385
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,302
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,307
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93,725
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99,439
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	91,158
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78,472
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65,394
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56,706
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51,333
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45,630
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,213
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40,779
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39,035
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34,536
32	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,382
33	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31,964
34	3,285	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32,790
35	7,744	2,874	39	3	0	0	0	0	0	0	0	0	0	0	0	0	33,841
36	7,138	7,176	3,737	72	1	0	0	0	0	0	0	0	0	0	0	0	35,758
37	4,617	6,540	7,583	4,261	60	0	0	0	0	0	0	0	0	0	0	0	36,288
38	3,240	4,354	6,388	8,118	2,608	46	0	0	0	0	0	0	0	0	0	0	34,759
39	2,431	3,172	4,131	6,665	4,101	1,881	35	0	0	0	0	0	0	0	0	0	29,807
40	1,796	2,366	2,881	4,333	2,820	2,786	1,300	21	0	0	0	0	0	0	0	0	23,853
41	1,248	1,814	2,129	2,759	1,722	1,778	1,976	900	9	1	0	0	0	0	0	0	18,563
42	916	1,228	1,486	1,977	1,206	1,104	1,311	1,448	537	11	0	0	0	0	0	0	14,247
43	658	954	1,159	1,433	882	748	775	996	847	364	20	0	0	0	0	0	11,153
44	471	687	920	1,036	597	499	527	585	554	528	260	12	0	0	0	0	8,401
45	375	497	613	706	434	393	398	438	342	413	354	207	6	0	0	0	6,625
46	245	329	433	515	290	272	267	262	237	249	269	295	123	5	0	0	4,972
47	210	272	327	423	198	192	194	161	161	187	129	214	205	89	0	0	3,827
48	178	222	221	234	160	139	113	123	108	162	90	133	229	145	11	0	3,140
49	150	187	184	181	96	80	89	79	83	97	79	86	124	191	15	0	2,432
50	127	177	141	170	84	66	47	52	50	67	56	62	44	117	21	0	1,921
51	121	124	135	146	62	47	46	38	36	53	31	32	42	51	27	0	1,506
52	68	116	95	109	64	48	22	21	23	12	16	21	28	36	12	0	1,199
53	61	98	87	104	46	42	24	16	17	12	14	11	13	25	11	0	1,070
54	70	74	83	101	49	32	10	14	17	6	5	9	9	12	7	0	882
55	37	44	41	43	19	18	9	2	4	7	4	4	4	3	3	0	505
56	22	39	28	21	10	11	9	4	2	2	1	0	0	0	3	0	357
57	20	29	30	22	15	13	2	4	1	2	0	1	0	0	0	0	302
58	17	21	19	21	12	6	4	4	5	0	0	1	1	0	2	0	228
59	14	9	19	19	11	2	1	0	1	2	1	0	1	1	0	0	153
60+	4	11	8	8	6	1	3	2	1	1	1	0	1	0	1	0	91
<b>Total</b>	<b>35,281</b>	<b>33,432</b>	<b>32,917</b>	<b>33,480</b>	<b>15,553</b>	<b>10,204</b>	<b>7,162</b>	<b>5,170</b>	<b>3,035</b>	<b>2,176</b>	<b>1,330</b>	<b>1,088</b>	<b>830</b>	<b>675</b>	<b>113</b>	<b>1,207,430</b>	
	Average Age						28.00	Average YAS						6.80			

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday

## All DOD Active Duty Personnel by Years of Service and Age for FY2000 Valuation

Age	Years Of Active Service															
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	385	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	25,056	244	2	0	0	0	0	0	0	0	0	0	0	0	0	0
19	49,793	20,419	96	0	0	0	0	0	0	0	0	0	0	0	0	0
20	33,600	42,410	17,643	79	1	0	0	0	0	0	0	0	0	0	0	0
21	19,703	29,096	37,048	13,614	40	3	0	0	0	0	0	0	0	0	0	0
22	14,273	16,269	25,910	29,555	7,246	14	2	0	0	0	0	0	0	0	0	0
23	11,736	12,978	14,999	23,445	16,287	5,130	11	0	0	0	0	0	0	0	0	0
24	7,546	10,943	11,749	14,088	13,590	11,411	3,955	14	1	0	0	0	0	0	0	0
25	4,757	6,626	10,026	11,459	8,526	9,683	10,077	3,923	14	3	0	0	0	0	0	0
26	3,498	4,380	6,320	9,862	7,932	6,661	8,854	9,454	3,528	9	2	0	0	0	0	0
27	2,609	3,064	3,994	6,184	7,127	6,143	5,753	8,595	8,301	2,961	13	1	0	0	0	0
28	1,992	2,434	2,945	4,279	4,605	5,943	5,585	5,866	7,609	7,035	3,288	17	3	0	0	0
29	1,657	1,871	2,324	3,181	3,279	4,117	5,492	5,412	5,454	6,530	7,724	3,600	19	2	0	0
30	1,382	1,454	1,822	2,499	2,680	2,833	3,849	5,289	5,350	4,653	6,436	8,028	3,325	21	1	0
31	1,023	1,076	1,231	1,718	1,930	2,021	2,449	3,473	4,914	4,343	3,920	6,349	6,918	3,552	25	3
32	849	801	925	1,135	1,258	1,411	1,659	2,161	3,425	4,106	3,848	3,881	5,608	7,209	3,797	22
33	739	648	688	841	939	968	1,234	1,547	2,067	2,934	3,684	3,846	3,490	6,141	7,937	3,665
34	658	514	555	656	744	724	920	1,235	1,523	1,897	2,649	3,984	3,740	4,161	6,700	8,107
35	649	525	512	585	592	590	654	898	1,190	1,472	1,760	3,068	3,771	4,184	4,697	6,987
36	450	439	427	502	515	501	596	665	876	1,121	1,388	2,048	2,956	4,215	4,553	4,961
37	361	266	406	435	430	370	406	554	660	890	1,037	1,498	2,126	3,044	4,287	4,691
38	357	160	205	381	384	301	315	400	499	623	791	1,019	1,512	2,078	3,105	4,207
39	323	117	131	231	338	242	264	325	365	457	546	737	1,062	1,643	2,128	2,834
40	283	112	114	137	150	237	248	287	310	353	443	543	679	1,121	1,541	2,001
41	221	85	78	115	150	161	218	217	233	305	317	400	521	756	1,111	1,583
42	195	80	77	95	109	85	118	183	207	217	282	315	390	535	795	1,066
43	163	55	52	90	98	82	78	93	163	216	217	242	317	410	582	788
44	146	49	39	85	88	64	86	80	107	177	180	209	250	315	447	548
45	109	27	35	79	77	44	75	60	96	102	168	191	205	246	380	431
46	110	22	43	76	61	47	43	72	71	83	122	166	173	244	286	355
47	96	28	28	37	33	27	37	38	63	87	73	101	166	158	245	261
48	142	34	40	49	47	34	34	38	59	55	100	69	100	156	200	248
49	115	28	34	53	36	26	26	34	42	59	58	59	73	116	186	213
50	123	50	44	30	38	24	22	22	39	47	64	48	79	68	115	171
51	96	38	65	48	37	24	31	28	31	47	44	56	58	76	71	101
52	79	43	62	53	37	17	31	25	35	27	39	55	47	63	68	91
53	68	43	62	61	42	24	21	23	33	29	40	40	48	65	75	88
54	58	41	43	53	26	15	14	18	15	29	29	39	37	47	56	77
55	47	19	24	25	10	11	23	9	14	12	19	22	22	30	36	49
56	34	13	19	28	21	6	12	12	9	14	19	13	13	24	29	34
57	34	10	15	18	13	8	5	6	10	16	9	14	15	13	26	25
58	19	8	12	10	2	8	2	10	6	4	12	9	12	18	20	26
59	18	4	4	12	9	4	1	4	7	4	8	4	7	13	5	18
60+	7	3	7	5	1	2	3	2	5	7	10	15	17	14	16	20
Total	185,559	157,526	140,855	125,888	79,528	60,016	53,203	51,072	47,331	40,924	39,339	40,686	37,759	40,738	43,520	43,671

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday



# All DOD Active Duty Personnel by Years of Service and Age for FY2000 Valuation

## Years Of Active Service

Age	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	385
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25,302
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,308
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93,733
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99,504
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	93,269
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84,586
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73,297
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65,094
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60,500
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54,745
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51,601
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50,662
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49,622
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44,945
32	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42,100
33	18	2	0	0	0	0	0	0	0	0	0	0	0	0	0	41,388
34	3,601	21	0	0	0	0	0	0	0	0	0	0	0	0	0	42,389
35	8,437	3,200	46	3	0	0	0	0	0	0	0	0	0	0	0	43,820
36	7,691	7,850	4,036	84	1	0	0	0	0	0	0	0	0	0	0	45,875
37	5,068	7,097	8,120	4,617	65	0	0	0	0	0	0	0	0	0	0	46,428
38	4,754	4,784	6,805	8,630	2,896	53	1	0	0	0	0	0	0	0	0	44,260
39	4,333	4,644	4,517	7,090	4,475	2,139	44	0	0	0	0	0	0	0	0	38,985
40	2,978	4,112	4,347	4,687	3,150	3,165	1,538	28	0	0	0	0	0	0	0	32,564
41	1,892	2,972	3,855	4,222	1,967	2,024	2,317	1,091	15	1	0	0	0	0	0	26,827
42	1,428	1,827	2,497	3,723	2,376	1,292	1,538	1,759	695	18	0	0	0	0	0	21,902
43	1,029	1,478	1,760	2,418	2,110	1,859	968	1,200	1,049	495	27	0	0	0	0	18,039
44	721	1,050	1,404	1,625	1,256	1,525	1,354	757	715	727	375	17	0	0	0	14,396
45	558	758	982	1,137	839	942	1,253	1,165	499	542	499	282	11	0	0	11,792
46	381	530	674	873	599	584	726	1,072	891	363	401	428	194	7	0	9,697
47	325	408	549	675	470	467	441	618	866	764	233	321	315	129	3	8,062
48	291	364	377	424	318	346	308	327	457	712	597	211	354	237	26	6,754
49	233	302	299	301	226	220	217	229	284	380	525	467	186	273	69	5,369
50	192	257	242	273	176	156	152	169	175	214	284	448	380	201	124	4,427
51	201	201	214	219	118	106	107	108	117	170	154	251	347	321	170	3,655
52	111	182	179	175	122	94	77	74	96	79	100	140	183	294	238	2,916
53	104	136	147	171	98	81	64	58	58	59	87	100	89	171	288	2,473
54	108	99	126	154	88	65	35	51	42	37	48	63	79	96	280	1,968
55	54	54	70	71	46	40	30	18	24	29	23	29	35	26	140	1,061
56	34	60	53	48	26	26	30	28	14	16	17	10	16	26	109	813
57	30	43	48	38	26	26	13	16	10	10	10	10	8	8	64	597
58	32	30	30	38	18	13	14	12	14	7	5	7	6	6	51	461
59	20	15	25	27	18	8	8	5	8	5	5	2	4	3	34	309
60+	21	32	18	21	18	17	13	10	15	8	6	5	3	7	32	360
<b>Total</b>	<b>44,650</b>	<b>42,508</b>	<b>41,420</b>	<b>41,744</b>	<b>21,502</b>	<b>15,248</b>	<b>11,248</b>	<b>8,795</b>	<b>6,044</b>	<b>4,636</b>	<b>3,396</b>	<b>2,791</b>	<b>2,210</b>	<b>1,805</b>	<b>1,628</b>	<b>1,437,240</b>

Average Age 29.17

Average YAS 7.45

Notes: Numbers have been adjusted to budget.  
Age is Age Nearest Birthday

## All DOD Reserve Officer Personnel for FY2000 Valuation

### Completed Years Of Active Duty Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
21	96	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
22	172	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	172
23	250	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	260
24	360	10	10	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	382
25	521	23	42	17	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	607
26	718	54	124	50	19	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	970
27	978	64	121	121	69	22	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1,383
28	1,098	91	170	153	163	57	13	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1,752
29	1,331	153	185	190	233	139	93	16	4	3	4	0	0	0	0	0	0	0	0	0	0	0	2,351
30	1,791	194	243	263	266	199	159	94	13	16	5	1	1	1	0	0	0	0	0	0	0	0	3,246
31	2,052	168	219	264	263	172	186	138	74	22	11	2	5	0	0	0	0	0	0	0	0	0	3,576
32	2,146	245	235	331	264	198	169	173	139	144	21	8	7	4	0	0	0	0	0	0	0	0	4,084
33	2,128	253	253	393	337	197	162	182	174	367	120	35	11	6	1	0	0	0	0	0	0	0	4,619
34	2,131	280	334	463	379	209	176	191	225	426	303	93	23	10	1	0	0	0	0	0	0	0	5,244
35	2,062	316	365	468	457	281	231	180	261	357	285	175	63	11	11	2	1	1	0	0	0	0	5,527
36	2,212	351	296	479	454	344	247	268	289	337	246	202	129	49	20	7	1	0	1	1	0	0	5,933
37	2,233	386	304	465	481	382	349	334	280	262	261	218	127	92	64	15	2	0	0	0	0	0	6,255
38	1,934	323	263	439	461	304	303	402	350	290	229	233	148	103	122	23	9	6	1	0	0	1	5,944
39	1,730	297	258	407	450	334	302	329	377	341	256	257	172	93	119	46	27	4	3	1	0	0	5,803
40	1,456	271	207	408	447	342	257	360	358	337	291	243	173	85	109	50	25	5	2	0	0	0	5,426
41	1,250	233	211	381	449	340	282	293	296	269	269	238	167	108	73	46	23	8	1	4	0	1	4,942
42	1,189	193	172	355	420	306	266	282	260	237	248	227	203	126	63	40	19	11	5	1	3	0	4,626
43	1,075	203	183	332	416	324	252	246	280	244	215	242	213	131	66	26	22	10	5	1	2	2	4,490
44	1,000	202	210	340	389	284	239	223	236	179	209	226	182	128	131	44	21	10	2	3	1	3	4,262
45	982	195	186	333	362	288	208	214	200	188	169	234	160	143	116	65	33	9	2	2	3	1	4,093
46	947	177	163	310	352	225	190	170	179	142	159	167	131	108	84	49	27	16	7	4	1	3	3,611
47	915	182	174	312	308	242	199	153	142	143	139	159	118	104	58	42	22	22	11	3	0	4	3,452
48	911	200	215	282	355	241	170	148	145	92	105	108	105	87	68	38	28	18	3	7	2	1	3,329
49	858	242	208	283	282	186	169	160	116	115	90	103	116	69	44	30	22	16	8	2	0	1	3,120
50	896	277	230	284	261	186	140	116	131	95	92	60	83	45	41	29	14	14	5	5	0	1	3,005
51	895	308	268	264	265	171	123	122	90	88	60	67	63	39	36	33	26	11	7	4	4	2	2,946
52	839	285	275	327	263	170	130	105	99	86	77	52	52	35	24	23	13	7	4	1	1	3	2,871
53	751	277	311	333	271	143	124	103	92	70	53	55	51	37	29	25	15	5	3	4	0	3	2,755
54	624	294	297	316	248	136	127	108	69	71	60	56	31	23	18	8	5	8	5	0	3	2	2,509
55	369	139	169	163	154	91	59	62	37	41	25	24	25	13	7	7	11	4	4	1	1	0	1,406
56	369	102	141	162	121	90	43	42	31	28	15	22	15	22	16	7	5	8	1	1	0	0	1,241
57	282	126	117	114	101	56	43	29	30	22	19	11	7	4	3	7	3	4	5	0	1	0	984
58	287	89	92	96	83	52	37	28	31	26	15	14	6	12	9	3	5	2	0	0	0	2	889
59	172	75	97	64	41	39	28	20	23	8	12	6	5	4	2	2	0	1	0	0	0	0	599
60+	272	72	97	66	48	31	22	19	18	19	6	8	13	3	6	3	3	1	1	0	0	0	708
<b>Total</b>	<b>42,321</b>	<b>7,362</b>	<b>7,455</b>	<b>10,030</b>	<b>9,935</b>	<b>6,783</b>	<b>5,506</b>	<b>5,318</b>	<b>5,051</b>	<b>5,066</b>	<b>4,069</b>	<b>3,546</b>	<b>2,605</b>	<b>1,695</b>	<b>1,340</b>	<b>671</b>	<b>382</b>	<b>201</b>	<b>86</b>	<b>45</b>	<b>22</b>	<b>30</b>	<b>119,519</b>

Data taken from the DOD actuarial valuation file created by the DOD Office of the Actuary.

Average Age

40.67

Average Years of Active Service

3.82

## All DOD Reserve Enlisted Personnel for FY2000 Valuation

### Completed Years Of Active Duty Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2,256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,256
18	18,123	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,131
19	27,435	3	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27,461
20	28,567	27	32	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,638
21	28,130	111	390	390	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,039
22	26,008	196	914	1,377	398	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,901
23	23,825	251	1,223	2,304	1,328	73	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,008
24	20,089	280	1,446	3,169	2,292	275	49	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27,605
25	16,886	334	1,601	3,285	2,852	575	308	22	7	0	0	0	0	0	0	0	0	0	0	0	0	0	25,870
26	14,753	427	1,636	3,293	3,200	780	637	165	12	7	0	0	0	0	0	0	0	0	0	0	0	0	24,910
27	12,487	477	1,519	2,801	2,983	781	765	425	130	17	1	0	0	0	0	0	0	0	0	0	0	0	22,386
28	11,828	494	1,578	2,590	2,814	843	970	604	290	134	30	5	0	0	0	0	0	0	0	0	0	0	22,180
29	11,849	615	1,506	2,518	2,873	964	1,003	800	480	378	139	12	5	0	0	0	0	0	0	0	0	0	23,142
30	11,863	690	1,336	2,779	3,075	946	1,022	953	590	595	324	66	8	1	0	0	0	0	0	0	0	0	24,248
31	10,306	711	1,154	2,615	3,005	968	964	867	625	585	420	159	56	11	4	0	0	0	0	0	0	0	22,450
32	9,337	752	1,110	2,264	2,890	1,001	910	838	621	520	588	224	113	38	8	0	0	0	0	0	0	0	21,214
33	8,392	766	1,010	2,083	2,751	1,003	966	798	641	607	649	263	167	102	26	9	3	0	0	0	0	0	20,236
34	8,018	772	1,134	2,165	2,551	1,022	947	895	667	630	653	276	186	114	78	38	8	1	0	0	0	0	20,155
35	7,835	823	1,124	2,176	2,409	931	923	928	767	681	650	313	237	158	120	89	7	1	2	0	0	0	20,174
36	8,014	896	1,074	2,310	2,401	907	899	863	836	814	823	391	265	166	149	169	18	6	6	2	0	0	21,009
37	8,041	910	905	2,137	2,513	1,011	883	904	876	828	933	491	325	223	166	172	32	11	1	1	1	0	21,364
38	7,724	916	887	2,044	2,489	921	894	810	710	760	867	567	439	239	179	173	39	17	10	0	1	5	20,691
39	7,005	861	716	1,892	2,380	817	816	699	688	636	724	567	526	339	157	139	39	12	6	5	0	4	19,028
40	6,209	797	686	1,737	2,118	801	812	679	677	587	588	451	452	381	264	156	46	23	10	3	2	3	17,482
41	5,147	729	682	1,676	1,914	735	685	540	556	436	447	355	330	353	262	171	55	36	9	1	2	3	15,124
42	4,239	638	642	1,429	1,755	669	629	436	432	365	365	272	263	250	218	153	74	27	17	5	3	5	12,886
43	3,880	700	647	1,385	1,741	622	585	378	392	342	313	251	255	204	155	143	85	46	9	4	3	4	12,144
44	3,474	661	706	1,353	1,526	622	523	365	330	288	272	186	170	153	134	125	85	54	18	5	0	2	11,052
45	2,865	613	724	1,260	1,374	536	530	334	319	235	194	149	160	90	95	78	42	34	22	11	3	2	9,670
46	2,458	572	762	1,165	1,226	471	415	323	290	202	175	135	118	88	72	69	53	41	23	13	7	3	8,681
47	2,244	658	741	943	1,084	413	359	294	295	184	137	122	99	85	63	55	35	33	15	7	2	3	7,871
48	2,412	792	781	903	986	352	325	263	233	178	125	86	87	72	44	33	23	28	6	5	3	2	7,739
49	2,126	838	883	832	905	318	313	258	221	141	111	77	69	54	27	28	20	13	6	5	2	2	7,249
50	2,008	1,047	987	795	871	270	208	192	154	110	89	73	61	44	37	36	18	11	2	2	2	3	7,020
51	1,736	1,103	1,138	841	1,037	328	231	191	160	132	102	70	52	32	27	21	6	10	1	4	1	0	7,223
52	1,420	998	1,170	1,045	1,123	340	222	188	172	118	71	80	64	46	28	21	17	4	8	5	0	2	7,142
53	1,258	969	1,262	1,185	1,269	322	208	176	150	79	85	49	51	27	22	15	11	10	1	0	0	0	7,149
54	1,144	770	1,039	1,140	1,191	329	176	143	131	73	58	40	42	27	26	13	11	14	6	2	0	2	6,377
55	754	478	647	697	745	227	105	80	69	43	37	33	22	19	15	11	7	6	5	1	0	2	4,003
56	751	387	540	560	562	191	95	75	67	40	30	22	20	12	5	7	8	3	1	1	1	0	3,378
57	608	336	478	441	489	169	92	64	64	35	34	14	21	8	13	2	4	4	3	0	1	0	2,880
58	507	252	344	381	440	154	72	56	81	48	24	17	14	5	4	5	4	5	2	1	1	1	2,418
59	384	199	262	281	267	106	52	40	58	36	9	11	13	9	7	5	2	1	1	1	0	1	1,745
60+	206	103	161	149	152	54	22	29	20	15	10	12	3	5	5	5	2	1	2	0	0	0	956
<b>Total</b>	<b>374,601</b>	<b>24,960</b>	<b>37,600</b>	<b>64,402</b>	<b>67,997</b>	<b>21,855</b>	<b>19,619</b>	<b>15,680</b>	<b>12,811</b>	<b>10,879</b>	<b>10,077</b>	<b>5,839</b>	<b>4,693</b>	<b>3,355</b>	<b>2,410</b>	<b>1,941</b>	<b>754</b>	<b>452</b>	<b>192</b>	<b>84</b>	<b>34</b>	<b>50</b>	<b>680,285</b>

Data taken from the DOD actuarial valuation file created by the DOD Office of the Actuary.

Average Age 32.27

Average Years of Active Service

2.14

## All DOD Reserve Personnel for FY2000 Valuation

### Completed Years Of Active Duty Service

Age	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+	Total
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	2,256	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,256
18	18,123	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18,131
19	27,435	3	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27,461
20	28,606	27	32	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28,677
21	28,226	117	396	390	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,147
22	26,180	196	914	1,377	398	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,073
23	24,075	257	1,227	2,304	1,328	73	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29,268
24	20,449	290	1,456	3,171	2,292	275	49	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27,987
25	17,407	357	1,643	3,302	2,855	576	308	22	7	0	0	0	0	0	0	0	0	0	0	0	0	0	26,477
26	15,471	481	1,760	3,343	3,219	781	641	165	12	7	0	0	0	0	0	0	0	0	0	0	0	0	25,880
27	13,465	541	1,640	2,922	3,052	803	769	428	131	17	1	0	0	0	0	0	0	0	0	0	0	0	23,769
28	12,926	585	1,748	2,743	2,977	900	983	609	291	135	30	5	0	0	0	0	0	0	0	0	0	0	23,932
29	13,180	768	1,691	2,708	3,106	1,103	1,096	816	484	381	143	12	5	0	0	0	0	0	0	0	0	0	25,493
30	13,654	884	1,579	3,042	3,341	1,145	1,181	1,047	603	611	329	67	9	2	0	0	0	0	0	0	0	0	27,494
31	12,358	879	1,373	2,879	3,268	1,140	1,150	1,005	699	607	431	161	61	11	4	0	0	0	0	0	0	0	26,026
32	11,483	997	1,345	2,595	3,154	1,199	1,079	1,011	760	664	609	232	120	42	8	0	0	0	0	0	0	0	25,298
33	10,520	1,019	1,263	2,476	3,088	1,200	1,128	980	815	974	769	298	178	108	26	10	3	0	0	0	0	0	24,855
34	10,149	1,052	1,468	2,628	2,930	1,231	1,123	1,086	892	1,056	956	369	209	124	79	38	8	1	0	0	0	0	25,399
35	9,897	1,139	1,489	2,644	2,866	1,212	1,154	1,108	1,028	1,038	935	488	300	169	131	91	8	2	2	0	0	0	25,701
36	10,226	1,247	1,370	2,789	2,855	1,251	1,146	1,131	1,125	1,151	1,069	593	394	215	169	176	19	6	7	3	0	0	26,942
37	10,274	1,296	1,209	2,602	2,994	1,393	1,232	1,238	1,156	1,090	1,194	709	452	315	230	187	34	11	1	1	1	0	27,619
38	9,658	1,239	1,150	2,483	2,950	1,225	1,197	1,212	1,060	1,050	1,096	800	587	342	301	196	48	23	11	0	1	6	26,635
39	8,735	1,158	974	2,299	2,830	1,151	1,118	1,028	1,065	977	980	824	698	432	276	185	66	16	9	6	0	4	24,831
40	7,665	1,068	893	2,145	2,565	1,143	1,069	1,039	1,035	924	879	694	625	466	373	206	71	28	12	3	2	3	22,908
41	6,397	962	893	2,057	2,363	1,075	967	833	852	705	716	593	497	461	335	217	78	44	10	5	2	4	20,066
42	5,428	831	814	1,784	2,175	975	895	718	692	602	613	499	466	376	281	193	93	38	22	6	6	5	17,512
43	4,955	903	830	1,717	2,157	946	837	624	672	586	528	493	468	335	221	169	107	56	14	5	5	6	16,634
44	4,474	863	916	1,693	1,915	906	762	588	566	467	481	412	352	281	265	169	106	64	20	8	1	5	15,314
45	3,847	808	910	1,593	1,736	824	738	548	519	423	363	383	320	233	211	143	75	43	24	13	6	3	13,763
46	3,405	749	925	1,475	1,578	696	605	493	469	344	334	302	249	196	156	118	80	57	30	17	8	6	12,292
47	3,159	840	915	1,255	1,392	655	558	447	437	327	276	281	217	189	121	97	57	55	26	10	2	7	11,323
48	3,323	992	996	1,185	1,341	593	495	411	378	270	230	194	192	159	112	71	51	46	9	12	5	3	11,068
49	2,984	1,080	1,091	1,115	1,187	504	482	418	337	256	201	180	185	123	71	58	42	29	14	7	2	3	10,369
50	2,904	1,324	1,217	1,079	1,132	456	348	308	285	205	181	133	144	89	78	65	32	25	7	7	2	4	10,025
51	2,631	1,411	1,406	1,105	1,302	499	354	313	250	220	162	137	115	71	63	54	32	21	8	8	5	2	10,169
52	2,259	1,283	1,445	1,372	1,386	510	352	293	271	204	148	132	116	81	52	44	30	11	12	6	1	5	10,013
53	2,009	1,246	1,573	1,518	1,540	465	332	279	242	149	138	104	102	64	51	40	26	15	4	4	0	3	9,904
54	1,768	1,064	1,336	1,456	1,439	465	303	251	200	144	118	96	73	50	44	21	16	22	11	2	3	4	8,886
55	1,123	617	816	860	899	318	164	142	106	84	62	57	47	32	22	18	18	10	9	2	1	2	5,409
56	1,120	489	681	722	683	281	138	117	98	68	45	44	35	34	21	14	13	11	2	2	0	1	4,619
57	890	462	595	555	590	225	135	93	94	57	53	25	28	12	16	9	7	8	8	0	2	0	3,864
58	794	341	436	477	523	206	109	84	112	74	39	31	20	17	13	8	9	7	2	1	1	3	3,307
59	556	274	359	345	308	145	80	60	81	44	21	17	18	13	9	7	2	2	1	1	0	1	2,344
60+	478	175	258	215	200	85	44	48	38	34	16	20	16	8	11	8	5	2	3	0	0	0	1,664
Total	416,922	32,322	45,055	74,432	77,932	28,638	25,125	20,998	17,862	15,945	14,146	9,385	7,298	5,050	3,750	2,612	1,136	653	278	129	56	80	799,804

Data taken from the DOD actuarial valuation file created by the DOD Office of the Actuary.

Average Age

33.52

Average Years of Active Service

2.39

## Retired Military Valuation Data as of End FY 2000

### All Officers

Age	-----			Strength	-----			Average Annual Net Retired Pay						
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret
16	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
20	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
21	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
22	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
23	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
24	0	0	3	0	3	0	0	\$0	\$0	\$11,592	\$0	\$11,592	\$0	\$0
25	0	0	4	0	4	0	0	\$0	\$0	\$10,224	\$0	\$10,224	\$0	\$0
26	0	0	11	0	11	0	0	\$0	\$0	\$12,380	\$0	\$12,380	\$0	\$0
27	0	3	18	0	21	0	0	\$0	\$2,676	\$9,489	\$0	\$8,516	\$0	\$0
28	0	4	27	0	31	0	0	\$0	\$5,748	\$10,882	\$0	\$10,220	\$0	\$0
29	0	6	21	0	27	0	0	\$0	\$9,610	\$10,631	\$0	\$10,404	\$0	\$0
30	0	12	28	0	40	0	0	\$0	\$7,160	\$12,721	\$0	\$11,053	\$0	\$0
31	0	18	25	0	43	0	0	\$0	\$5,147	\$11,928	\$0	\$9,090	\$0	\$0
32	0	24	23	0	47	0	0	\$0	\$8,146	\$13,606	\$0	\$10,818	\$0	\$0
33	0	28	29	0	57	0	0	\$0	\$8,007	\$13,382	\$0	\$10,742	\$0	\$0
34	1	33	28	0	62	1	0	\$9,636	\$5,927	\$15,034	\$0	\$10,100	\$9,636	\$0
35	0	54	29	0	83	0	0	\$0	\$6,996	\$13,924	\$0	\$9,417	\$0	\$0
36	6	75	22	0	103	6	0	\$14,292	\$7,649	\$15,694	\$0	\$9,755	\$14,292	\$0
37	21	79	28	0	128	17	0	\$13,720	\$7,008	\$16,086	\$0	\$10,095	\$12,233	\$0
38	107	98	28	0	233	54	0	\$18,077	\$8,200	\$13,436	\$0	\$13,365	\$13,756	\$0
39	281	102	43	0	426	92	0	\$19,469	\$8,570	\$16,475	\$0	\$16,557	\$15,783	\$0
40	628	98	28	0	754	222	0	\$19,534	\$9,228	\$14,313	\$0	\$18,001	\$15,889	\$0
41	1,158	134	20	0	1,312	459	0	\$20,332	\$11,051	\$19,054	\$0	\$19,365	\$17,654	\$0
42	1,973	155	29	0	2,157	764	0	\$21,661	\$10,852	\$17,858	\$0	\$20,833	\$18,356	\$0
43	3,190	179	29	0	3,398	1,183	0	\$23,256	\$12,178	\$20,667	\$0	\$22,650	\$18,971	\$0
44	4,227	189	28	0	4,444	1,442	0	\$24,280	\$13,045	\$17,772	\$0	\$23,762	\$19,716	\$0
45	5,389	182	25	0	5,596	1,633	0	\$25,030	\$12,994	\$21,904	\$0	\$24,624	\$20,161	\$0
46	5,931	222	19	0	6,172	1,580	0	\$25,776	\$12,823	\$19,499	\$0	\$25,291	\$20,920	\$0
47	6,674	258	27	0	6,959	1,375	0	\$26,692	\$14,945	\$24,856	\$0	\$26,250	\$21,319	\$0
48	7,331	275	21	0	7,627	1,053	0	\$27,439	\$15,744	\$25,275	\$0	\$27,012	\$21,787	\$0
49	7,854	272	21	0	8,147	755	0	\$28,491	\$16,762	\$24,466	\$0	\$28,089	\$21,468	\$0
50	8,555	297	15	0	8,867	469	0	\$29,430	\$17,655	\$30,547	\$0	\$29,038	\$21,253	\$0
51	9,578	373	13	0	9,964	366	0	\$30,139	\$17,866	\$23,658	\$0	\$29,672	\$21,029	\$0
52	10,874	404	15	0	11,293	267	0	\$30,898	\$18,544	\$34,881	\$0	\$30,461	\$21,513	\$0
53	12,204	542	11	0	12,757	233	0	\$31,942	\$18,928	\$32,604	\$0	\$31,389	\$21,218	\$0
54	13,423	671	15	0	14,109	193	0	\$33,005	\$19,754	\$31,432	\$0	\$32,373	\$21,894	\$0
55	9,611	513	10	0	10,134	104	0	\$33,699	\$19,444	\$41,604	\$0	\$32,986	\$23,076	\$0
56	9,901	547	4	0	10,452	72	0	\$34,066	\$20,051	\$30,786	\$0	\$33,332	\$22,883	\$0
57	10,331	532	5	0	10,868	61	0	\$34,404	\$20,930	\$26,798	\$0	\$33,741	\$23,222	\$0
58	10,364	551	5	0	10,920	49	0	\$34,200	\$21,478	\$49,164	\$0	\$33,565	\$23,398	\$0
59	9,206	432	1	0	9,639	33	0	\$33,970	\$21,586	\$43,656	\$0	\$33,416	\$23,577	\$0
60	9,497	448	2	1,848	11,795	13	11	\$33,981	\$22,916	\$17,436	\$15,990	\$30,739	\$20,527	\$10,066
61	9,577	379	1	4,485	14,442	5	35	\$34,256	\$23,732	\$40,008	\$15,678	\$28,211	\$24,734	\$10,843
62	9,404	378	1	4,624	14,407	2	45	\$34,149	\$25,133	\$46,200	\$14,998	\$27,767	\$27,666	\$11,492
63	8,996	342	2	4,592	13,932	2	37	\$35,041	\$26,833	\$28,782	\$14,496	\$28,067	\$22,914	\$11,038
64	8,749	345	0	4,485	13,579	6	20	\$34,879	\$27,106	\$0	\$14,432	\$27,928	\$24,496	\$8,689
65	8,748	351	0	4,362	13,461	1	19	\$35,265	\$26,815	\$0	\$14,122	\$28,193	\$22,044	\$9,463
66	9,347	358	0	4,545	14,250	5	15	\$35,953	\$27,781	\$0	\$14,064	\$28,766	\$17,376	\$8,674
67	9,128	343	0	4,250	13,721	1	9	\$36,230	\$28,744	\$0	\$14,291	\$29,248	\$24,204	\$9,544
68	9,484	396	0	4,456	14,336	2	7	\$36,626	\$28,230	\$0	\$14,009	\$29,365	\$20,478	\$11,391
69	9,225	470	0	4,821	14,516	1	6	\$37,180	\$28,760	\$0	\$13,396	\$29,008	\$27,684	\$8,600
70	9,382	477	0	5,247	15,106	2	1	\$37,596	\$28,642	\$0	\$13,040	\$28,784	\$22,500	\$18,252

## Retired Military Valuation Data as of End FY 2000

### All Officers

Age	Strength			Reserve Retired	Total			Average Annual Net Retired Pay							
	Non Disabled	Perm Disabled	Temp Disabled		TERA Non-Dis	TERA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret		
71	8,780	474	0	5,082	14,336	1	4	\$37,799	\$29,631	\$0	\$12,782	\$28,661	\$16,236	\$8,547	
72	7,383	477	0	4,600	12,460	1	4	\$38,716	\$30,190	\$0	\$12,702	\$28,786	\$25,980	\$13,371	
73	5,429	389	0	3,306	9,124	1	1	\$39,736	\$30,851	\$0	\$13,255	\$29,762	\$18,924	\$13,848	
74	4,679	360	0	3,212	8,251	0	1	\$40,481	\$31,674	\$0	\$13,000	\$29,399	\$0	\$18,216	
75	5,114	409	0	3,897	9,420	0	0	\$41,703	\$31,880	\$0	\$12,537	\$29,211	\$0	\$0	
76	6,120	637	0	4,948	11,705	0	1	\$41,011	\$27,604	\$0	\$12,406	\$28,189	\$0	\$9,840	
77	6,481	922	0	5,404	12,807	0	0	\$40,628	\$27,076	\$0	\$11,869	\$27,518	\$0	\$0	
78	6,799	1,134	0	5,827	13,760	0	0	\$39,633	\$25,384	\$0	\$11,801	\$26,673	\$0	\$0	
79	7,960	1,478	0	6,317	15,755	0	1	\$38,643	\$25,162	\$0	\$11,883	\$26,649	\$0	\$7,608	
80	7,778	1,700	0	6,278	15,756	0	0	\$37,789	\$24,719	\$0	\$12,461	\$26,287	\$0	\$0	
81	7,167	1,594	0	5,741	14,502	0	0	\$37,211	\$25,634	\$0	\$13,174	\$26,423	\$0	\$0	
82	6,366	1,540	0	5,409	13,315	0	0	\$36,629	\$25,176	\$0	\$13,569	\$25,937	\$0	\$0	
83	5,165	1,317	0	4,523	11,005	0	0	\$35,824	\$26,459	\$0	\$13,766	\$25,637	\$0	\$0	
84	4,109	1,071	0	3,608	8,788	0	0	\$35,505	\$26,091	\$0	\$14,164	\$25,596	\$0	\$0	
85	3,227	821	0	2,856	6,904	0	0	\$34,826	\$26,251	\$0	\$14,856	\$25,545	\$0	\$0	
86	2,211	629	0	2,371	5,211	0	0	\$35,296	\$26,071	\$0	\$15,785	\$25,305	\$0	\$0	
87	1,663	486	0	1,683	3,832	0	0	\$34,675	\$25,418	\$0	\$15,808	\$25,215	\$0	\$0	
88	1,158	321	0	1,400	2,879	0	0	\$35,363	\$26,471	\$0	\$15,680	\$24,800	\$0	\$0	
89	915	266	0	1,109	2,290	0	0	\$34,731	\$25,266	\$0	\$15,354	\$24,248	\$0	\$0	
90	704	216	0	935	1,855	0	0	\$34,772	\$27,394	\$0	\$14,633	\$23,762	\$0	\$0	
91	514	156	0	673	1,343	0	0	\$35,441	\$24,948	\$0	\$14,076	\$23,516	\$0	\$0	
92	398	119	0	522	1,039	0	0	\$34,997	\$24,576	\$0	\$13,413	\$22,960	\$0	\$0	
93	311	74	0	405	790	0	0	\$35,744	\$23,867	\$0	\$12,743	\$22,840	\$0	\$0	
94	160	52	0	259	471	0	0	\$33,547	\$26,668	\$0	\$13,419	\$21,719	\$0	\$0	
95	132	36	0	189	357	0	0	\$34,898	\$25,357	\$0	\$12,183	\$21,910	\$0	\$0	
96	81	17	0	112	210	0	0	\$33,778	\$24,961	\$0	\$14,645	\$22,860	\$0	\$0	
97	48	22	0	76	146	0	0	\$33,497	\$26,630	\$0	\$12,898	\$21,740	\$0	\$0	
98	30	10	0	42	82	0	0	\$36,750	\$22,464	\$0	\$11,245	\$21,944	\$0	\$0	
99	15	9	0	20	44	0	0	\$32,248	\$22,663	\$0	\$13,070	\$21,570	\$0	\$0	
100	22	3	0	14	39	0	0	\$34,187	\$20,452	\$0	\$13,083	\$25,555	\$0	\$0	
101	7	1	0	9	17	0	0	\$31,164	\$14,784	\$0	\$11,105	\$19,581	\$0	\$0	
102	3	1	0	4	8	0	0	\$36,696	\$16,860	\$0	\$14,238	\$22,988	\$0	\$0	
103	2	2	0	1	5	0	0	\$33,480	\$34,140	\$0	\$16,344	\$30,317	\$0	\$0	
104	0	0	0	3	3	0	0	\$0	\$0	\$0	\$11,088	\$11,088	\$0	\$0	
105	1	0	0	0	1	0	0	\$38,844	\$0	\$0	\$0	\$38,844	\$0	\$0	
106	1	0	0	1	2	0	0	\$49,416	\$0	\$0	\$10,380	\$29,898	\$0	\$0	
107	1	0	0	0	1	0	0	\$33,084	\$0	\$0	\$0	\$33,084	\$0	\$0	
108	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
109	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
110	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Total	351,289	28,392	714	128,551	508,946	12,526	217	\$34,204	\$24,075	\$18,559	\$13,538	\$28,397	\$20,308	\$10,471	
60+	202,471	21,030	6	128,551	352,058	43	217	\$36,887	\$26,469	\$29,774	\$13,538	\$27,739	\$22,013	\$10,471	
62+	183,397	20,203	3	122,218	325,821	25	171	\$37,175	\$26,599	\$34,588	\$13,422	\$27,609	\$22,242	\$10,421	
65+	156,248	19,138	0	108,517	283,903	15	69	\$37,609	\$26,615	\$0	\$13,268	\$27,564	\$20,527	\$9,893	

Note: Age is retiree's current age to nearest birthday at end of fiscal year.  
60+ is total for ages 60 and over.  
62+ is total for ages 62 and over.  
65+ is total for ages 65 and over.  
Includes only retiree's receiving payment from DOD.  
# Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.  
TERA nondisabled and TERA Reserve Retired numbers and payments are included in appropriate categories.  
Figures adjusted to DOD budget.

## Retired Military Valuation Data as of End FY 2000

All Enlisted

Age	-----			Strength	-----			Average Annual Net Retired Pay							-----	
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret		
16	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
17	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
18	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0		
19	0	1	14	0	15	0	0	\$0	\$1,824	\$6,197	\$0	\$5,906	\$0	\$0		
20	0	0	48	0	48	0	0	\$0	\$0	\$5,526	\$0	\$5,526	\$0	\$0		
21	0	2	132	0	134	0	0	\$0	\$6,126	\$5,148	\$0	\$5,163	\$0	\$0		
22	0	15	211	0	226	0	0	\$0	\$2,993	\$5,010	\$0	\$4,876	\$0	\$0		
23	0	19	265	0	284	0	0	\$0	\$3,282	\$4,600	\$0	\$4,512	\$0	\$0		
24	0	37	284	0	321	0	0	\$0	\$2,838	\$4,809	\$0	\$4,582	\$0	\$0		
25	0	57	299	0	356	0	0	\$0	\$2,834	\$4,825	\$0	\$4,507	\$0	\$0		
26	0	97	327	0	424	0	0	\$0	\$2,829	\$5,166	\$0	\$4,631	\$0	\$0		
27	0	135	304	0	439	0	0	\$0	\$3,193	\$5,115	\$0	\$4,524	\$0	\$0		
28	0	191	298	0	489	0	0	\$0	\$2,676	\$5,212	\$0	\$4,221	\$0	\$0		
29	0	243	269	0	512	0	0	\$0	\$2,872	\$5,272	\$0	\$4,133	\$0	\$0		
30	0	350	271	0	621	0	0	\$0	\$2,943	\$5,838	\$0	\$4,206	\$0	\$0		
31	0	355	236	0	591	0	0	\$0	\$2,931	\$6,354	\$0	\$4,298	\$0	\$0		
32	0	384	231	0	615	0	0	\$0	\$3,062	\$5,996	\$0	\$4,164	\$0	\$0		
33	1	425	194	0	620	1	0	\$10,464	\$3,388	\$6,138	\$0	\$4,260	\$10,464	\$0		
34	6	511	214	0	731	6	0	\$7,276	\$3,348	\$6,464	\$0	\$4,292	\$7,276	\$0		
35	108	628	214	0	950	108	0	\$6,937	\$3,525	\$7,240	\$0	\$4,750	\$6,937	\$0		
36	342	691	181	0	1,214	342	0	\$7,243	\$3,607	\$7,122	\$0	\$5,156	\$7,243	\$0		
37	815	815	168	0	1,798	779	0	\$7,856	\$3,753	\$7,326	\$0	\$5,946	\$7,592	\$0		
38	3,298	899	170	0	4,367	1,639	0	\$11,073	\$4,003	\$7,805	\$0	\$9,490	\$8,248	\$0		
39	8,887	1,049	158	0	10,094	2,944	0	\$11,830	\$4,311	\$7,145	\$0	\$10,975	\$8,630	\$0		
40	15,346	1,153	129	0	16,628	4,098	0	\$12,077	\$4,537	\$8,880	\$0	\$11,529	\$8,975	\$0		
41	19,887	1,221	129	0	21,237	4,752	0	\$12,260	\$4,665	\$8,471	\$0	\$11,800	\$9,302	\$0		
42	23,021	1,229	110	0	24,360	5,104	0	\$12,529	\$4,996	\$9,465	\$0	\$12,135	\$9,805	\$0		
43	25,257	1,410	113	0	26,780	4,947	0	\$12,836	\$5,335	\$9,371	\$0	\$12,426	\$10,086	\$0		
44	26,501	1,474	78	0	28,053	4,239	0	\$13,143	\$5,874	\$9,252	\$0	\$12,750	\$10,222	\$0		
45	27,326	1,643	58	0	29,027	3,141	0	\$13,405	\$6,070	\$10,384	\$0	\$12,983	\$10,118	\$0		
46	28,688	1,763	71	0	30,522	2,325	0	\$13,701	\$6,221	\$9,699	\$0	\$13,259	\$10,129	\$0		
47	28,956	1,811	46	0	30,813	1,619	0	\$13,967	\$6,690	\$10,703	\$0	\$13,534	\$10,003	\$0		
48	29,592	1,944	43	0	31,579	1,169	0	\$14,256	\$6,986	\$9,324	\$0	\$13,802	\$9,788	\$0		
49	27,825	1,916	38	0	29,779	910	0	\$14,468	\$7,018	\$11,762	\$0	\$13,986	\$9,872	\$0		
50	27,251	2,126	26	0	29,403	709	0	\$14,880	\$7,099	\$11,233	\$0	\$14,314	\$10,092	\$0		
51	28,378	2,365	21	0	30,764	546	0	\$15,271	\$7,041	\$13,435	\$0	\$14,637	\$10,101	\$0		
52	29,213	2,657	27	0	31,897	433	0	\$15,647	\$7,052	\$12,564	\$0	\$14,929	\$10,268	\$0		
53	29,827	2,831	22	0	32,680	367	0	\$15,949	\$7,027	\$11,702	\$0	\$15,173	\$10,344	\$0		
54	30,065	2,549	14	0	32,628	306	0	\$16,200	\$7,357	\$10,569	\$0	\$15,507	\$10,671	\$0		
55	21,316	1,783	5	0	23,104	174	0	\$16,232	\$7,876	\$18,521	\$0	\$15,588	\$10,744	\$0		
56	22,518	1,634	8	0	24,160	123	0	\$16,287	\$8,383	\$13,986	\$0	\$15,752	\$10,360	\$0		
57	24,831	1,573	6	0	26,410	108	0	\$16,221	\$8,786	\$13,162	\$0	\$15,777	\$10,716	\$0		
58	27,380	1,533	4	0	28,917	74	0	\$16,129	\$9,282	\$15,498	\$0	\$15,766	\$10,994	\$0		
59	25,844	1,312	5	0	27,161	55	0	\$16,026	\$9,219	\$10,632	\$0	\$15,696	\$11,643	\$0		
60	25,613	1,221	3	3,108	29,945	34	40	\$15,924	\$10,059	\$13,304	\$7,182	\$14,777	\$12,947	\$5,309		
61	25,891	1,047	2	7,950	34,890	17	121	\$15,811	\$10,215	\$23,190	\$6,903	\$13,614	\$10,162	\$4,176		
62	27,555	1,111	0	8,115	36,781	25	151	\$15,907	\$10,250	\$0	\$6,672	\$13,699	\$12,988	\$4,341		
63	30,067	1,116	0	8,256	39,439	12	162	\$16,033	\$10,560	\$0	\$6,594	\$13,902	\$11,125	\$3,835		
64	30,326	1,076	0	7,941	39,343	4	140	\$16,201	\$10,648	\$0	\$6,706	\$14,133	\$12,594	\$3,937		
65	30,441	1,041	0	7,778	39,260	3	154	\$16,224	\$10,636	\$0	\$6,740	\$14,197	\$8,612	\$4,402		
66	29,219	1,143	0	7,038	37,400	0	92	\$16,202	\$10,478	\$0	\$6,896	\$14,276	\$0	\$4,332		
67	27,439	1,234	0	5,952	34,625	2	78	\$16,355	\$10,706	\$0	\$7,153	\$14,572	\$10,110	\$4,341		
68	27,670	1,420	0	5,988	35,078	0	19	\$16,399	\$10,542	\$0	\$7,043	\$14,565	\$0	\$4,055		
69	27,344	1,622	0	6,141	35,107	0	3	\$16,411	\$10,415	\$0	\$6,923	\$14,474	\$0	\$6,644		
70	29,261	1,812	0	5,976	37,049	0	0	\$16,230	\$10,713	\$0	\$6,891	\$14,454	\$0	\$0		

## Retired Military Valuation Data as of End FY 2000

### All Enlisted

Age	Strength			Average Annual Net Retired Pay										
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret
71	27,236	1,752	0	5,010	33,998	0	0	\$16,109	\$10,992	\$0	\$7,011	\$14,505	\$0	\$0
72	22,376	1,498	0	4,168	28,042	0	0	\$15,960	\$10,986	\$0	\$6,964	\$14,357	\$0	\$0
73	18,595	1,206	0	3,140	22,941	0	1	\$15,749	\$11,763	\$0	\$7,209	\$14,370	\$0	\$4,404
74	14,538	926	0	2,827	18,291	0	0	\$15,373	\$12,408	\$0	\$7,137	\$13,950	\$0	\$0
75	12,975	816	0	2,619	16,410	1	0	\$15,137	\$12,487	\$0	\$7,210	\$13,740	\$11,508	\$0
76	12,479	780	0	2,639	15,898	0	0	\$15,103	\$12,940	\$0	\$7,192	\$13,683	\$0	\$0
77	11,140	670	0	2,313	14,123	0	0	\$15,015	\$13,156	\$0	\$7,134	\$13,636	\$0	\$0
78	9,899	610	0	2,158	12,667	0	0	\$14,941	\$14,326	\$0	\$7,202	\$13,593	\$0	\$0
79	9,415	564	0	2,090	12,069	0	0	\$14,837	\$14,454	\$0	\$7,155	\$13,489	\$0	\$0
80	7,867	529	0	1,762	10,158	0	0	\$14,935	\$14,612	\$0	\$7,379	\$13,608	\$0	\$0
81	7,147	440	0	1,457	9,044	0	0	\$14,811	\$16,010	\$0	\$7,727	\$13,728	\$0	\$0
82	5,415	395	0	1,214	7,024	0	0	\$14,593	\$15,443	\$0	\$7,812	\$13,469	\$0	\$0
83	4,139	286	0	975	5,400	0	0	\$14,579	\$16,311	\$0	\$7,726	\$13,434	\$0	\$0
84	2,974	197	0	647	3,818	0	0	\$14,528	\$15,921	\$0	\$7,736	\$13,449	\$0	\$0
85	2,215	157	0	564	2,936	0	0	\$14,173	\$14,904	\$0	\$7,965	\$13,020	\$0	\$0
86	1,647	113	0	423	2,183	0	0	\$14,313	\$14,126	\$0	\$8,256	\$13,130	\$0	\$0
87	1,150	93	0	311	1,554	0	0	\$13,605	\$13,466	\$0	\$8,572	\$12,590	\$0	\$0
88	730	54	0	217	1,001	0	0	\$13,692	\$13,580	\$0	\$7,842	\$12,418	\$0	\$0
89	546	31	0	146	723	0	0	\$13,388	\$12,898	\$0	\$8,013	\$12,282	\$0	\$0
90	376	28	0	99	503	0	0	\$12,858	\$14,463	\$0	\$7,092	\$11,813	\$0	\$0
91	280	20	0	97	397	0	0	\$13,296	\$12,393	\$0	\$7,159	\$11,751	\$0	\$0
92	205	9	0	66	280	0	0	\$12,599	\$16,505	\$0	\$6,938	\$11,390	\$0	\$0
93	141	11	0	36	188	0	0	\$12,900	\$10,754	\$0	\$6,595	\$11,567	\$0	\$0
94	95	1	0	27	123	0	0	\$13,028	\$14,496	\$0	\$5,911	\$11,478	\$0	\$0
95	67	6	0	9	82	0	0	\$12,210	\$11,742	\$0	\$5,244	\$11,411	\$0	\$0
96	43	3	0	9	55	0	0	\$11,915	\$13,488	\$0	\$6,817	\$11,167	\$0	\$0
97	22	5	0	6	33	0	0	\$13,334	\$11,419	\$0	\$6,072	\$11,724	\$0	\$0
98	23	1	0	4	28	0	0	\$13,425	\$5,004	\$0	\$5,976	\$12,060	\$0	\$0
99	8	3	0	2	13	0	0	\$12,315	\$12,996	\$0	\$7,206	\$11,686	\$0	\$0
100	11	3	0	1	15	0	0	\$11,876	\$10,152	\$0	\$9,504	\$11,373	\$0	\$0
101	7	0	0	2	9	0	0	\$11,904	\$0	\$0	\$2,514	\$9,817	\$0	\$0
102	4	0	0	1	5	0	0	\$14,148	\$0	\$0	\$5,760	\$12,470	\$0	\$0
103	2	1	0	0	3	0	0	\$15,222	\$4,272	\$0	\$0	\$11,572	\$0	\$0
104	1	0	0	0	1	0	0	\$13,032	\$0	\$0	\$0	\$13,032	\$0	\$0
105	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
106	2	1	0	0	3	0	0	\$14,364	\$3,096	\$0	\$0	\$10,608	\$0	\$0
107	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
108	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
110	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	1,017,075	67,883	5,446	109,282	1,199,686	41,116	961	\$15,185	\$8,303	\$6,499	\$6,978	\$14,009	\$9,618	\$4,227
60+	484,596	25,052	5	109,282	618,935	98	961	\$15,858	\$11,524	\$17,258	\$6,978	\$14,115	\$12,031	\$4,227
62+	433,092	22,784	0	98,224	554,100	47	800	\$15,857	\$11,663	\$0	\$6,977	\$14,110	\$12,045	\$4,180
65+	345,144	19,481	0	73,912	438,537	6	347	\$15,807	\$11,863	\$0	\$7,083	\$14,162	\$9,594	\$4,370

Note: Age is retiree's current age to nearest birthday at end of fiscal year.  
 60+ is total for ages 60 and over.  
 62+ is total for ages 62 and over.  
 65+ is total for ages 65 and over.  
 Includes only retiree's receiving payment from DOD.  
 # Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.  
 TERA nondisabled and TERA Reserve Retired numbers and payments are included in appropriate categories.  
 Figures adjusted to DOD budget.

Department of Defense - Office of the Actuary



# Retired Military Valuation Data as of End FY 2000

All DOD

Age	-----			Strength	-----			Average Annual Net Retired Pay						
	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	TERA Non-Dis	TERA Res Ret
16	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
17	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
18	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
19	0	1	14	0	15	0	0	\$0	\$1,824	\$6,197	\$0	\$5,906	\$0	\$0
20	0	0	48	0	48	0	0	\$0	\$0	\$5,526	\$0	\$5,526	\$0	\$0
21	0	2	132	0	134	0	0	\$0	\$6,126	\$5,148	\$0	\$5,163	\$0	\$0
22	0	15	211	0	226	0	0	\$0	\$2,993	\$5,010	\$0	\$4,876	\$0	\$0
23	0	19	265	0	284	0	0	\$0	\$3,282	\$4,600	\$0	\$4,512	\$0	\$0
24	0	37	287	0	324	0	0	\$0	\$2,838	\$4,880	\$0	\$4,647	\$0	\$0
25	0	57	303	0	360	0	0	\$0	\$2,834	\$4,897	\$0	\$4,570	\$0	\$0
26	0	97	338	0	435	0	0	\$0	\$2,829	\$5,401	\$0	\$4,827	\$0	\$0
27	0	138	322	0	460	0	0	\$0	\$3,182	\$5,360	\$0	\$4,706	\$0	\$0
28	0	195	325	0	520	0	0	\$0	\$2,739	\$5,683	\$0	\$4,579	\$0	\$0
29	0	249	290	0	539	0	0	\$0	\$3,034	\$5,660	\$0	\$4,447	\$0	\$0
30	0	362	299	0	661	0	0	\$0	\$3,083	\$6,482	\$0	\$4,621	\$0	\$0
31	0	373	261	0	634	0	0	\$0	\$3,038	\$6,888	\$0	\$4,623	\$0	\$0
32	0	408	254	0	662	0	0	\$0	\$3,361	\$6,685	\$0	\$4,636	\$0	\$0
33	1	453	223	0	677	1	0	\$10,464	\$3,673	\$7,080	\$0	\$4,805	\$10,464	\$0
34	7	544	242	0	793	7	0	\$7,613	\$3,504	\$7,455	\$0	\$4,746	\$7,613	\$0
35	108	682	243	0	1,033	108	0	\$6,937	\$3,800	\$8,038	\$0	\$5,125	\$6,937	\$0
36	348	766	203	0	1,317	348	0	\$7,364	\$4,003	\$8,051	\$0	\$5,515	\$7,364	\$0
37	836	894	196	0	1,926	796	0	\$8,003	\$4,041	\$8,577	\$0	\$6,222	\$7,691	\$0
38	3,405	997	198	0	4,600	1,693	0	\$11,293	\$4,416	\$8,601	\$0	\$9,686	\$8,424	\$0
39	9,168	1,151	201	0	10,520	3,036	0	\$12,064	\$4,689	\$9,141	\$0	\$11,201	\$8,847	\$0
40	15,974	1,251	157	0	17,382	4,320	0	\$12,370	\$4,905	\$9,848	\$0	\$11,810	\$9,330	\$0
41	21,045	1,355	149	0	22,549	5,211	0	\$12,704	\$5,296	\$9,892	\$0	\$12,240	\$10,038	\$0
42	24,994	1,384	139	0	26,517	5,868	0	\$13,250	\$5,652	\$11,216	\$0	\$12,842	\$10,919	\$0
43	28,447	1,589	142	0	30,178	6,130	0	\$14,004	\$6,106	\$11,678	\$0	\$13,577	\$11,801	\$0
44	30,728	1,663	106	0	32,497	5,681	0	\$14,675	\$6,689	\$11,503	\$0	\$14,256	\$12,632	\$0
45	32,715	1,825	83	0	34,623	4,774	0	\$15,319	\$6,760	\$13,854	\$0	\$14,865	\$13,553	\$0
46	34,619	1,985	90	0	36,694	3,905	0	\$15,770	\$6,959	\$11,768	\$0	\$15,283	\$14,495	\$0
47	35,630	2,069	73	0	37,772	2,994	0	\$16,350	\$7,719	\$15,938	\$0	\$15,877	\$15,200	\$0
48	36,923	2,219	64	0	39,206	2,222	0	\$16,874	\$8,072	\$14,558	\$0	\$16,372	\$15,474	\$0
49	35,679	2,188	59	0	37,926	1,665	0	\$17,555	\$8,229	\$16,284	\$0	\$17,015	\$15,130	\$0
50	35,806	2,423	41	0	38,270	1,178	0	\$18,356	\$8,393	\$18,299	\$0	\$17,725	\$14,536	\$0
51	37,956	2,738	34	0	40,728	912	0	\$19,023	\$8,516	\$17,344	\$0	\$18,315	\$14,486	\$0
52	40,087	3,061	42	0	43,190	700	0	\$19,784	\$8,569	\$20,535	\$0	\$18,990	\$14,557	\$0
53	42,031	3,373	33	0	45,437	600	0	\$20,593	\$8,939	\$18,669	\$0	\$19,726	\$14,567	\$0
54	43,488	3,220	29	0	46,737	499	0	\$21,387	\$9,940	\$21,360	\$0	\$20,599	\$15,012	\$0
55	30,927	2,296	15	0	33,238	278	0	\$21,660	\$10,461	\$33,910	\$0	\$20,892	\$15,358	\$0
56	32,419	2,181	12	0	34,612	195	0	\$21,717	\$11,310	\$19,586	\$0	\$21,060	\$14,984	\$0
57	35,162	2,105	11	0	37,278	169	0	\$21,563	\$11,855	\$19,360	\$0	\$21,015	\$15,230	\$0
58	37,744	2,084	9	0	39,837	123	0	\$21,091	\$12,507	\$34,201	\$0	\$20,645	\$15,935	\$0
59	35,050	1,744	6	0	36,800	88	0	\$20,739	\$12,282	\$16,136	\$0	\$20,338	\$16,119	\$0
60	35,110	1,669	5	4,956	41,740	47	51	\$20,808	\$13,510	\$14,957	\$10,466	\$19,288	\$15,043	\$6,335
61	35,468	1,426	3	12,435	49,332	22	156	\$20,792	\$13,808	\$28,796	\$10,068	\$17,887	\$13,474	\$5,672
62	36,959	1,489	1	12,739	51,188	27	196	\$20,549	\$14,028	\$46,200	\$9,694	\$17,658	\$14,075	\$5,982
63	39,063	1,458	2	12,848	53,371	14	199	\$20,410	\$14,377	\$28,782	\$9,418	\$17,600	\$12,809	\$5,175
64	39,075	1,421	0	12,426	52,922	10	160	\$20,383	\$14,644	\$0	\$9,494	\$17,672	\$19,735	\$4,531
65	39,189	1,392	0	12,140	52,721	4	173	\$20,474	\$14,716	\$0	\$9,393	\$17,771	\$11,970	\$4,958
66	38,566	1,501	0	11,583	51,650	5	107	\$20,989	\$14,605	\$0	\$9,709	\$18,273	\$17,376	\$4,940
67	36,567	1,577	0	10,202	48,346	3	87	\$21,316	\$14,629	\$0	\$10,126	\$18,737	\$14,808	\$4,879
68	37,154	1,816	0	10,444	49,414	2	26	\$21,562	\$14,399	\$0	\$10,015	\$18,859	\$20,478	\$6,030
69	36,569	2,092	0	10,962	49,623	1	9	\$21,650	\$14,536	\$0	\$9,770	\$18,726	\$27,684	\$7,948
70	38,643	2,289	0	11,223	52,155	2	1	\$21,417	\$14,449	\$0	\$9,766	\$18,604	\$22,500	\$18,252

## Retired Military Valuation Data as of End FY 2000

### All DOD

Age	Strength			Reserve Retired	Tera			Average Annual Net Retired Pay						
	Non Disabled	Perm Disabled	Temp Disabled		Total	Non-Dis	Res Ret	Non Disabled	Perm Disabled	Temp Disabled	Reserve Retired	Total	Non-Dis	Tera Res Ret
71	36,016	2,226	0	10,092	48,334	1	4	\$21,397	\$14,961	\$0	\$9,917	\$18,704	\$16,236	\$8,547
72	29,759	1,975	0	8,768	40,502	1	4	\$21,605	\$15,624	\$0	\$9,975	\$18,796	\$25,980	\$13,371
73	24,024	1,595	0	6,446	32,065	1	2	\$21,170	\$16,419	\$0	\$10,310	\$18,750	\$18,924	\$9,126
74	19,217	1,286	0	6,039	26,542	0	1	\$21,487	\$17,802	\$0	\$10,256	\$18,753	\$0	\$18,216
75	18,089	1,225	0	6,516	25,830	1	0	\$22,647	\$18,962	\$0	\$10,396	\$19,382	\$11,508	\$0
76	18,599	1,417	0	7,587	27,603	0	1	\$23,628	\$19,532	\$0	\$10,593	\$19,835	\$0	\$9,840
77	17,621	1,592	0	7,717	26,930	0	0	\$24,436	\$21,218	\$0	\$10,450	\$20,238	\$0	\$0
78	16,698	1,744	0	7,985	26,427	0	0	\$24,995	\$21,516	\$0	\$10,558	\$20,403	\$0	\$0
79	17,375	2,042	0	8,407	27,824	0	1	\$25,743	\$22,204	\$0	\$10,708	\$20,941	\$0	\$7,608
80	15,645	2,229	0	8,040	25,914	0	0	\$26,297	\$22,320	\$0	\$11,348	\$21,317	\$0	\$0
81	14,314	2,034	0	7,198	23,546	0	0	\$26,027	\$23,552	\$0	\$12,072	\$21,547	\$0	\$0
82	11,781	1,935	0	6,623	20,339	0	0	\$26,501	\$23,189	\$0	\$12,514	\$21,631	\$0	\$0
83	9,304	1,603	0	5,498	16,405	0	0	\$26,373	\$24,648	\$0	\$12,695	\$21,620	\$0	\$0
84	7,083	1,268	0	4,255	12,606	0	0	\$26,697	\$24,511	\$0	\$13,187	\$21,917	\$0	\$0
85	5,442	978	0	3,420	9,840	0	0	\$26,420	\$24,430	\$0	\$13,720	\$21,808	\$0	\$0
86	3,858	742	0	2,794	7,394	0	0	\$26,339	\$24,252	\$0	\$14,645	\$21,711	\$0	\$0
87	2,813	579	0	1,994	5,386	0	0	\$26,062	\$23,498	\$0	\$14,679	\$21,572	\$0	\$0
88	1,888	375	0	1,617	3,880	0	0	\$26,984	\$24,614	\$0	\$14,628	\$21,605	\$0	\$0
89	1,461	297	0	1,255	3,013	0	0	\$26,755	\$23,975	\$0	\$14,500	\$21,376	\$0	\$0
90	1,080	244	0	1,034	2,358	0	0	\$27,143	\$25,910	\$0	\$13,911	\$21,213	\$0	\$0
91	794	176	0	770	1,740	0	0	\$27,632	\$23,521	\$0	\$13,204	\$20,831	\$0	\$0
92	603	128	0	588	1,319	0	0	\$27,383	\$24,009	\$0	\$12,687	\$20,504	\$0	\$0
93	452	85	0	441	978	0	0	\$28,618	\$22,170	\$0	\$12,241	\$20,673	\$0	\$0
94	255	53	0	286	594	0	0	\$25,903	\$26,438	\$0	\$12,710	\$19,598	\$0	\$0
95	199	42	0	198	439	0	0	\$27,259	\$23,412	\$0	\$11,868	\$19,949	\$0	\$0
96	124	20	0	121	265	0	0	\$26,197	\$23,240	\$0	\$14,063	\$20,433	\$0	\$0
97	70	27	0	82	179	0	0	\$27,160	\$23,813	\$0	\$12,399	\$19,893	\$0	\$0
98	53	11	0	46	110	0	0	\$26,628	\$20,877	\$0	\$10,787	\$19,429	\$0	\$0
99	23	12	0	22	57	0	0	\$25,315	\$20,246	\$0	\$12,537	\$19,316	\$0	\$0
100	33	6	0	15	54	0	0	\$26,750	\$15,302	\$0	\$12,845	\$21,616	\$0	\$0
101	14	1	0	11	26	0	0	\$21,534	\$14,784	\$0	\$9,543	\$16,201	\$0	\$0
102	7	1	0	5	13	0	0	\$23,811	\$16,860	\$0	\$12,542	\$18,942	\$0	\$0
103	4	3	0	1	8	0	0	\$24,351	\$24,184	\$0	\$16,344	\$23,288	\$0	\$0
104	1	0	0	3	4	0	0	\$13,032	\$0	\$0	\$11,088	\$11,574	\$0	\$0
105	1	0	0	0	1	0	0	\$38,844	\$0	\$0	\$0	\$38,844	\$0	\$0
106	3	1	0	1	5	0	0	\$26,048	\$3,096	\$0	\$10,380	\$18,324	\$0	\$0
107	1	0	0	0	1	0	0	\$33,084	\$0	\$0	\$0	\$33,084	\$0	\$0
108	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
109	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
110	0	0	0	0	0	0	0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>1,368,364</b>	<b>96,275</b>	<b>6,160</b>	<b>237,833</b>	<b>1,708,632</b>	<b>53,642</b>	<b>1,178</b>	<b>\$20,068</b>	<b>\$12,954</b>	<b>\$7,897</b>	<b>\$10,523</b>	<b>\$18,295</b>	<b>\$12,114</b>	<b>\$5,377</b>
60+	687,067	46,082	11	237,833	970,993	141	1,178	\$22,055	\$18,344	\$24,085	\$10,523	\$19,054	\$15,075	\$5,377
62+	616,489	42,987	3	220,442	879,921	72	971	\$22,199	\$18,682	\$34,588	\$10,550	\$19,109	\$15,586	\$5,279
65+	501,392	38,619	0	182,429	722,440	21	416	\$22,601	\$19,173	\$0	\$10,762	\$19,428	\$17,403	\$5,286

Note: Age is retiree's current age to nearest birthday at end of fiscal year.  
 60+ is total for ages 60 and over.  
 62+ is total for ages 62 and over.  
 65+ is total for ages 65 and over.  
 Includes only retiree's receiving payment from DOD.  
 # Temporary Early Retirement Act (TERA) retirees and payments are shown for informational purposes only.  
 TERA nondisabled and TERA Reserve Retired numbers and payments are included in appropriate categories.  
 Figures adjusted to DOD budget.

APPENDIX D

ECONOMIC ASSUMPTIONS

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Economic Assumptions .....	D-2

## ECONOMIC ASSUMPTIONS

In August, 1999, the DoD Retirement Board of Actuaries adopted the following economic assumptions for use in the valuation as of September 30, 2000: the rate of inflation (CPI) is assumed to be 3.0 percent per year; the investment return is 6.25 percent per year; and the basic pay scale increases are 3.5 percent per year. As background for determining the economic assumptions, the Board received a number of presentations by economists and actuaries and was provided with extensive historical data on inflation, interest rates, and wage growth.

### Inflation

The CPI-W, one of the consumer price indexes published by the Bureau of Labor Statistics, was emphasized as an inflation measure since it is used in calculating military retired pay cost-of-living increases. Table D-1 shows the average annual CPI-W changes over various periods of time since 1930. Different periods experienced different rates of change. The average annual CPI change during successive 30-year periods since World War II has risen from 3.79 percent for the period ending in 1975 to 5.30 percent for the period ending in 1995. This reflects the high inflation during the 1970s.

The DoD assumption for CPI is consistent with what is used in other parts of the government. The Civil Service Retirement System assumes a 3.75 percent CPI increase in its Congressional reports. The Trustees of the Social Security Administration in their 2000 Annual Report made projections under three alternative sets of assumptions. Their intermediate assumption for CPI was 3.3 percent. The Board has noted that the effect of the CPI on long-range cost projections is relatively minor in a system where retirement benefits are fully indexed and expressed as a percentage of payroll.

### Interest Rate

For the interest assumption, the Board focused on real interest rates. To simplify discussion, the real interest rate was defined as the difference between the nominal interest rate and the CPI. Other things being equal, a lower element of risk in an investment will give a lower real interest rate. Because the military retirement system must be invested in obligations of the U.S. Government, a highly secure investment, the real interest rates are expected to be relatively low.

The Board analyzed past real interest rates that would have been earned by the types of public debt securities in which the military retirement level is invested.<sup>1</sup> The Board members recognized the importance of selecting a real interest rate that would prevail on the average over a long period of time

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<sup>1</sup> Data through 2000 are given in Table D-2.

and that would not unduly weight recent experience or expected results during the near-term future. Particular emphasis was given to the rates since 1950. After analyzing past trends of government trust fund earnings, 3.25 percent was adopted as the rate of real interest. Since 3.0 percent had been adopted as the inflation rate, the nominal rate of interest is 6.25 percent.

It is relevant to note the real interest rates being assumed by the other two major public benefit systems. The Trustees of the Social Security Administration used an ultimate real interest rate intermediate assumption of 3.0 percent in its 2000 report. The Board of Actuaries of the Civil Service Retirement System used a 1.0 percent real interest rate in the early 1980s, changing to 1.5 percent for the 1985 valuation. In its 2000 valuation, the Civil Service Board used a 3.0 percent real interest rate assumption.

### Wage Growth

For the salary increase assumption, recent historical data were used as well as forecasts for the population at large. The Career Compensation Act of 1949 revamped the military compensation structure to provide an equitable pay and allowance system. Associated with this change was a large basic pay increase designed to establish rough comparability with the private sector. Additionally, the Army and Air Force Vitalization and Retirement Equalization Act of 1948 established for the first time a uniform voluntary retirement system authority among all branches of Service. The reserve retirement program was also established at this time. These two Acts provided the start of the modern-day compensation structure designed to attract and retain the number of Service members needed. In the analysis of basic pay scale increases, the Board looked at all data from this point forward.

Table D-3 displays real military basic pay increases over various periods of time during the post-World War II era. From the early 1950s to the early 1970s, the average annual real military pay increase was approximately 1.8 percent. From the early 1950s to the present, the increase has averaged approximately 1.0 percent a year. Since the all-volunteer force was instituted after the Vietnam War, annual real pay increases have averaged only 0.4 percent. (There was negative real pay growth in the late 1970s and late 1980s.)

In making its recommendation for the real rate of the annual basic pay scale increase, the Board assumed that future general pay increases in the military would not deviate much from pay increases in the private sector. In this light, the Board adopted a real basic pay growth assumption of 0.5 percent, leading to a nominal growth of 3.5 percent. The Board of Actuaries of the Civil Service Retirement System assumed 0.5 percent real wage growth for its 2000 valuation. The Social Security Trustees' 2000 report had an intermediate ultimate assumption for real wage growth of 1.0 percent.

TABLE D-1

**CONSUMER PRICE INDEX (CPI-W) INCREASES**

From December 31 of:		1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999
To December 31 of:																			
1935	-3.04																		
1940	-1.34	0.38																	
1945	0.81	2.79	5.25																
1950	2.22	4.03	5.91	6.57															
1955	2.06	3.37	4.39	3.96	1.43														
1960	2.07	3.12	3.82	3.35	1.77	2.12													
1965	1.96	2.82	3.32	2.84	1.63	1.73	1.33												
1970	2.28	3.07	3.52	3.18	2.35	2.65	2.92	4.54											
1975	2.79	3.54	4.00	3.79	3.24	3.70	4.23	5.71	6.90										
1980	3.41	4.16	4.64	4.55	4.22	4.79	5.46	6.88	8.07	9.24									
1985	3.52	4.20	4.63	4.55	4.27	4.75	5.28	6.29	6.89	6.88	4.57								
1990	3.56	4.18	4.57	4.49	4.24	4.64	5.07	5.83	6.16	5.92	4.29	4.02							
1995	3.49	4.05	4.40	4.31	4.06	4.40	4.73	5.30	5.46	5.10	3.75	3.35	2.68						
1996	3.49	4.04	4.38	4.29	4.05	4.37	4.69	5.24	5.37	5.01	3.72	3.34	2.78	3.29					
1997	3.46	4.00	4.32	4.24	3.99	4.30	4.60	5.12	5.23	4.85	3.59	3.19	2.60	2.40	1.51				
1998	3.43	3.96	4.28	4.18	3.94	4.24	4.52	5.01	5.09	4.70	3.48	3.06	2.47	2.11	1.53	1.55			
1999	3.42	3.94	4.25	4.16	3.92	4.20	4.47	4.94	5.01	4.62	3.44	3.04	2.50	2.27	1.94	2.15	2.76		
2000	3.42	3.93	4.24	4.14	3.90	4.18	4.44	4.90	4.96	4.57	3.44	3.06	2.59	2.50	2.30	2.56	3.08	3.40	

All figures are average annual percentage increases.

Source of CPI-W indices: [CPI DETAILED REPORT](#), a monthly publication of the Bureau of Labor Statistics.

TABLE D-2

**COMPOSITE SERIES: AVERAGE OF TREASURY LONG TERM AND TREASURY 3-5 YEARS REMAINING  
MATURITY FROM 1941 TO 1961 SPECIAL TREASURY CERTIFICATES (CSRS) FROM 1962 TO 1984,  
AND MILITARY RETIREMENT SYSTEM TRUST FUND NEW INVESTMENTS BEGINNING WITH 1985**

**AVERAGE INTEREST RATES**

From December 31 of:	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999
To December 31 of:																
1935																
1940																
1945	1.79															
1950	1.83	1.86														
1955	2.04	2.16	2.47													
1960	2.44	2.65	3.05	3.63												
1965	2.75	2.99	3.37	3.82	4.01											
1970	3.27	3.57	4.00	4.52	4.97	5.93										
1975	3.77	4.10	4.56	5.09	5.57	6.36	6.80									
1980	4.37	4.74	5.23	5.80	6.34	7.13	7.74	8.68								
1985	5.24	5.68	6.24	6.88	7.54	8.44	9.29	10.55	12.45							
1990	5.63	6.06	6.60	7.20	7.81	8.58	9.26	10.09	10.80	9.17						
1995	5.66	6.05	6.53	7.04	7.54	8.14	8.59	9.04	9.16	7.55	5.95					
1996	5.67	6.06	6.52	7.03	7.51	8.09	8.51	8.92	8.99	7.45	6.04	6.47				
1997	5.68	6.06	6.52	7.01	7.48	8.03	8.42	8.79	8.83	7.35	6.07	6.37	6.28			
1998	5.66	6.03	6.48	6.95	7.40	7.92	8.28	8.60	8.58	7.13	5.87	5.74	5.38	4.49		
1999	5.66	6.03	6.46	6.93	7.36	7.86	8.19	8.48	8.43	7.03	5.86	5.76	5.52	5.14	5.80	
2000	5.67	6.03	6.46	6.91	7.33	7.81	8.12	8.39	8.32	6.97	5.89	5.83	5.68	5.48	5.97	6.15

All figures are average annual percentages.

Source: Office of the Actuary, Office of Personnel Management; Office of the Actuary, Department of Defense

TABLE D-3

AVERAGE REAL MILITARY PERSONNEL BASIC PAY INCREASES

From December 31 of:		1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1980	1985	1990	1995	1996	1997	1998	1999
To December 31 of:																			
1935	N/A																		
1940	N/A		N/A																
1945	N/A		N/A	N/A															
1950	N/A		N/A	N/A	-2.21														
1955	N/A		N/A	N/A	-0.48	1.28													
1960	N/A		N/A	N/A	-0.49	0.39	-0.50												
1965	N/A		N/A	N/A	0.58	1.52	1.64	3.84											
1970	N/A		N/A	N/A	0.97	1.79	1.96	3.21	2.58										
1975	N/A		N/A	N/A	1.31	2.03	2.22	3.14	2.80	3.02									
1980	N/A		N/A	N/A	0.79	1.30	1.31	1.76	1.08	0.34	-2.26								
1985	N/A		N/A	N/A	0.84	1.28	1.28	1.64	1.10	0.61	-0.57	1.16							
1990	N/A		N/A	N/A	0.67	1.04	1.01	1.26	0.75	0.30	-0.59	0.26	-0.64						
1995	N/A		N/A	N/A	0.64	0.96	0.92	1.13	0.68	0.31	-0.36	0.28	-0.16	0.33					
1996	N/A		N/A	N/A	0.62	0.93	0.89	1.09	0.65	0.28	-0.36	0.25	-0.17	0.23	-0.28				
1997	N/A		N/A	N/A	0.63	0.94	0.90	1.09	0.67	0.32	-0.28	0.31	-0.05	0.37	0.49	1.27			
1998	N/A		N/A	N/A	0.66	0.96	0.93	1.12	0.71	0.38	-0.18	0.40	0.11	0.58	1.00	1.65	2.02		
1999	N/A		N/A	N/A	0.68	0.98	0.95	1.14	0.75	0.44	-0.09	0.48	0.24	0.73	1.25	1.76	2.00	1.99	
2000	N/A		N/A	N/A	0.68	0.97	0.94	1.12	0.73	0.43	-0.08	0.47	0.25	0.69	1.05	1.39	1.43	1.14	0.29

All figures are average annual percentage increases.

Source: House Armed Services Committee publication, Title 37, United States Code (Pay and Allowances of the Uniformed Services.)



APPENDIX E

NORMAL COST WEIGHTING FACTORS

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## NORMAL COST WEIGHTING FACTORS

There are three different retirement benefit formulas that apply to three populations within the military retirement system. (See Appendix A for a discussion of FINAL PAY, HI-3, and REDUX formulas.) A single normal cost percentage (NCP) for the entire population is obtained by weighting the NCP for each retirement group by its expected percentage of payroll in the relevant year.

In order to continue to budget for NCPs well in advance of the valuation date, the DoD Retirement Board of Actuaries decided to create a set of projected weighting factors. The relative stability of past experience indicates that this method gives reasonably accurate results.

Since the composite NCP developed at year-end is implemented each month during the next fiscal year, the weighting factors reflect mid-year experience. For example, when determining the percentage of the payroll during year  $t$  allocated to people who entered in year  $t-1$  or later, we interpolated between 6 percent and 14 percent to obtain 10 percent at mid-year. These mid-year interpolated percentages of payroll are shown in Table 5 of the main text.

Current rates were created using 1987 through 1991 data. Table E-1 displays the active duty basic payroll percentage distribution by completed years of service at the end of each of these fiscal years, as well as average distributions for the two periods, 1982-1987 and 1987-1991.

TABLE E-1

ACTIVE DUTY BASIC PAYROLL PERCENTAGE DISTRIBUTION  
BY COMPLETED YEARS OF SERVICE

Completed Years of Service	Percentage of Payroll on:					Average Percent 1982-1987	Average Percent 1987-1991
	9/30/87	9/30/88	9/30/89	9/30/90	9/30/91		
0	7%	7%	7%	6%	5%	8%	6%
1 or less	15	15	14	13	11	17	14
2 or less	24	23	22	21	19	25	22
3 or less	32	31	30	28	27	33	29
4 or less	37	36	35	34	32	39	35
5 or less	43	42	41	39	37	44	40
6 or less	47	46	45	44	42	49	45
7 or less	52	51	50	48	47	53	50
8 or less	56	55	54	53	51	57	54
9 or less	60	59	58	57	55	61	58
10 or less	64	63	62	60	59	64	62
11 or less	67	66	66	64	63	67	65
12 or less	70	70	69	68	66	72	69
13 or less	73	73	72	72	70	73	72
14 or less	76	76	75	75	74	76	75
15 or less	79	79	78	78	77	79	78
16 or less	82	82	82	81	81	82	81
17 or less	85	85	85	84	84	85	85
18 or less	88	88	88	88	87	88	88
19 or less	91	91	91	91	90	91	91
20 or less	93	93	93	93	93	93	93
21 or less	94	94	94	94	94	94	94
22 or less	96	96	96	96	95	95	96
23 or less	96	96	97	97	97	96	97
24 or less	97	97	97	98	98	97	97
25 or less	98	98	98	98	98	98	98
26 or less	99	99	99	99	99	99	99
27 or less	99	99	99	99	99	99	99
28 or less	99	99	99	99	99	99	99
29 or less	100	100	100	100	100	100	100
TOTAL FORCE	100	100	100	100	100	100	100

APPENDIX F

VALUATION PROGRAM PARAMETERS DESCRIPTION

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## VALUATION PROGRAM PARAMETERS

GORGO is a computer program used to compute the aggregate entry-age-normal cost percentage and the unfunded liability. In addition to being affected by the external rates, GORGO has a number of parameters which affect its results. These parameters are simply summaries of recent experience. Examples include the rates of election of the Survivor Benefit Plan and member-spouse age differences.

A description of the various valuation program parameters is given in Table F-1.

TABLE F-1

DESCRIPTION OF THE MAJOR VALUATION PROGRAM PARAMETERS

<u>Item</u>	<u>Description</u>
Salary Increase	A parameter for each of the next ten fiscal years specifies the annual percentage increase in basic pay for the active duty and reserve members. An 11th parameter specifies the percentage increase for all subsequent years.
CPI	A parameter for each of the next nine fiscal years specifies the annual inflation (Consumer Price Index - CPI) rate for that year. A tenth parameter specifies the inflation rate for all subsequent years.
Interest Rate	A parameter for each of the next nine fiscal years specifies the annual interest rate for that year. A tenth parameter specifies the interest rate for all subsequent years.
Average Monthly Amount of Retired Pay for Reservists	Self-explanatory. This is given by years of <i>active</i> service and by officer/enlisted status.
Multiplier for Reserve Pay	This is the factor by which base pay must be multiplied for reservists to get the gross monthly retirement amounts.
Member-Survivor Age Difference	When a member dies, any survivor is assumed to be a certain number of years younger (or older) than the member. This is given separately for active vs. retired and by type of retirement (i.e., nondisability, temporary disability, permanent disability) and type of survivor.
Member Election of Spouse or Spouse/Child SBP Coverage	This gives the percentage of members by age and officer/enlisted status who have elected spouse or spouse/child coverage under the Survivor Benefit Plan.

TABLE F-1 (continued)

Full VA Waivers	A member who is disabled may waive all or part of his or her retired pay to receive benefits from the Veterans Administration. These amounts are not included when computing normal costs or unfunded liabilities. The percentage of new retirees who have full VA waivers is given by officer/enlisted status and type of retirement (disability, nondisability). It is rare for a nondisabled retiree to have a full VA waiver, but it can occur.
SBP Base Assumption	Under the Survivor Benefit Plan the retiring Serviceman may elect to use <i>less</i> than his full retired pay as a basis for computing a survivor annuity. Here the SBP base is expressed as a percentage of the net pay. This is given by age and officer/enlisted status. For survivors under age 62, the SBP annuity is 55% of the base amount.
RSFPP Benefit Assumption	For RSFPP, this gives the ratio of the survivor payment to the net amount of retired pay.
Partial Waiver and Amount	It is possible to have part of DoD retired pay offset by VA compensation. The percent of retirees having an offset and the relative size of the offset are the parameters. They are given by officer/enlisted and disability/nondisability status.
Disability Factor	When an active duty member is disabled and receives DoD disability retirement, his retired pay is based on a minimum (30%), a maximum (75%), and a disability rating. These are combined into one factor, expressed as a percentage of basic pay, and given by length of service and type of retirement (temporary disability/permanent disability).

TABLE F-1 (continued)

Percent Active Duty Married	When a member dies from a Service-connected disability or on active duty, any surviving spouse is eligible for Dependency and Indemnity Compensation (DIC) from the Veterans Administration. In addition, if the member has completed 20 years of active duty, the surviving spouse is eligible for a DIC supplement from DoD which would bring the total amount of the DIC up to 55% of the member's retired pay. The DIC supplement comes from the DoD retired pay fund. Thus, it is necessary to estimate the percent of active duty members with 20 years of service who are married.
Blow-Up Factors for the Selected Reserve	Newly retired reservists at age 60 as a ratio to ( $\frac{1}{2}$ of the selected reservists at age 59 plus all of the selected reservists at age 60). This is given by officer/enlisted status and by current fiscal year/subsequent fiscal years.
Reservists' Election of SBP	Proportion of reservists who have elected the Survivor Benefit Plan by officer/enlisted status.
Partial DIC Offsets	This gives the product of (1) the proportion of members with a partial DIC offset and (2) the ratio of the offset to the SBP annuity. The number is given by gross SBP interval and by whether or not the member died on active duty.
Full DIC Waivers for Survivors Eligible for DIC Supplement	In some cases the DIC amount itself is already 55% of retired pay, so that the surviving spouse of a member is not entitled to any DIC supplement from DoD. For this, we estimate the percentage of surviving spouses who receive no DoD compensation. This is given separately for "death on active duty" spouses and other surviving spouses.



TABLE F-1 (continued)

Rates for Electing SBP Options	Given that a member elects SBP, there is still a choice of options: spouse, child, spouse and child, or insurable interest (some other designated beneficiary in the absence of a spouse or child). These are expressed as ratios to those electing any spouse coverage (including spouse/child), and are given by age and officer/enlisted status.
Reduction Factors for SBP	Premium amounts, as a percent of retired pay, by age, officer/enlisted status, and active/reserve.
Rates for Election of RSFPP Options	Given that a member elected an RSFPP (Retired Servicemen's Family Protection Plan, now replaced by SBP for new retirees) option, there was a choice of options: spouse, child, or spouse and child. These are expressed as ratios to those electing any spouse coverage (including spouse/child), and are given by age and officer/enlisted status.
Reserve New Entrants	Reserve new entrants per 100,000 active duty new entrants. This includes only the reservists who show up on the file for the first time with less than a full year of active duty.
Reserve Points Earned	Average reserve points earned annually.
Rounding Assumptions for Partially Completed Years of Service	This parameter assumes a distribution for partially completed years of service and the effect those partial years have on retired pay.
REDUX bonus election proportion	REDUX formula members have the choice of receiving High-3 benefits or staying under the REDUX formula and receiving a lump-sum \$30,000 payment. This parameter is the proportion electing the latter option.

Initial Pay of 16-year-old Active Duty Officer

This value is used to allocate some of the Selected Reserve retirement benefits to the active duty side, thus linking the radixes and pay of the active duty and part-time members.

## APPENDIX G

### ACTIVE DUTY RATES

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## ACTIVE DUTY RATES

The active duty rates consist principally of decrement rates related to the probabilities of a member leaving a category of Military Service for a specific cause. In addition, they include a new entrant distribution, a set of reentrant ratios, and ratios for promotion and merit pay increases.

The active duty decrement rates are used to project active duty deaths, temporary and permanent disability retirements, nondisability retirements, and withdrawals (i.e., other active duty losses). In addition, the active duty decrements include rates of transfer between officer and enlisted status. The death rates are given by age nearest birthday for officers and enlistees separately. The remaining decrement rates are given by completed years of active service for officers and enlistees separately. The formulas used to create the active duty rates are given on page G-3. The fiscal years on which various rates are based are given on page G-4. Because of the large number of cases available and the need to avoid smoothing through real discontinuities, the nondisability retirement and withdrawal rates were not graduated (smoothed). The remaining rates were broken into ranges where assumptions of continuity were reasonable. Except for a few of these ranges where means or ungraduated rates were used, the remaining rates were smoothed using Whittaker-Henderson graduations.

A reentrant is defined as someone who is on active duty at year end, who was not on active duty a year earlier, and who is not a new entrant. The reentrant ratios give for each cell the expected number of reentrants per year, per active member, in the cell. The cells are defined by length of service and by officer/enlisted. The reentrant ratios are based on fiscal years 1984-90.

The new entrant distribution gives the percentages of new entrants to the Services by age and by officer/enlisted status. The new entrant distribution is based on new entrants to military service in fiscal years 1984-1990.

The promotion and merit increase scales (PAMS) give the expected annual percentage increase in pay regardless of whether or not there are across-the-board increases in the active duty pay scale. The PAMS do not include adjustments for inflation or productivity increases. The current PAMS are based on cross-sectional data obtained at the end of fiscal years 1988-1990. They are defined by length of service, by entry age, and by officer/enlisted status. The PAMS were created by first smoothing the average pay for each entry along a dimension of increasing years of service. This was performed using Whittaker-Henderson graduations with second or third differences. The PAMS were then computed by dividing the average pay at the next year of service by the average pay at the current year of service.

ACTIVE DUTY RATE FORMULAS

WITHDRAWAL FROM ACTIVE DUTY (by completed years of service)

$$\frac{\text{Withdrawals during year}}{\text{Number at beginning of year}}$$

ACTIVE DEATH (by age nearest birthday)

$$\frac{\text{Deaths during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

NONDISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New retirees during year}}{\text{Number at beginning of year}}$$

TEMPORARY DISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New temporary disabilities during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

PERMANENT DISABILITY RETIREMENT (by completed years of service)

$$\frac{\text{New permanent disabilities during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

TRANSFER RATES (by completed years of service)

$$\frac{\text{Transfers to category during year}}{[\text{Number at beginning of year} - \frac{1}{2} (\text{Withdrawals} + \text{nondisability retirements during year})]}$$

REENTRANT RATIOS (by completed years of service)

$$\frac{\text{Number reentering during year}}{\text{Number at beginning of year}}$$

PROMOTION AND MERIT SCALE (by entry age and completed years of service)

$$\frac{\text{Average basic pay at next year of service}}{\text{Average basic pay at current year of service}}$$

SUMMARY OF YEARS ON WHICH RATES ARE BASED

Fiscal Years on Which Rates Are Based

<u>Rate</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>
Death							X	X	X	X	X	X	X	X	X
Temporary Disability Retirement	X	X	X	X	X	X	X								
Permanent Disability Retirement	X	X	X	X	X	X	X								
Nondisability Retirement	X	X	X	X	X	X	X								
Withdrawal (other losses)	X	X	X	X	X	X	X								
Transfer	X	X	X	X	X	X	X								
New Entrant Distribution	X	X	X	X	X	X	X								
Reentrant Ratios	X	X	X	X	X	X	X								
Promotion and Merit Scales					X	X	X								

## DEATH RATES FOR NONRETIRED MILITARY

(Age Nearest Birthday)

Age	Officer	Enlisted	Age	Officer	Enlisted
16	0.00032	0.00072	39	0.00042	0.00064
17	0.00035	0.00080	40	0.00042	0.00068
18	0.00038	0.00086	41	0.00043	0.00073
19	0.00040	0.00087	42	0.00043	0.00079
20	0.00042	0.00085	43	0.00046	0.00083
21	0.00045	0.00082	44	0.00049	0.00087
22	0.00046	0.00077	45	0.00054	0.00092
23	0.00055	0.00070	46	0.00059	0.00099
24	0.00061	0.00063	47	0.00065	0.00107
25	0.00065	0.00057	48	0.00072	0.00118
26	0.00067	0.00053	49	0.00078	0.00130
27	0.00067	0.00050	50	0.00084	0.00146
28	0.00065	0.00049	51	0.00091	0.00164
29	0.00063	0.00049	52	0.00097	0.00184
30	0.00059	0.00050	53	0.00103	0.00204
31	0.00055	0.00051	54	0.00110	0.00225
32	0.00051	0.00051	55	0.00122	0.00250
33	0.00048	0.00051	56	0.00136	0.00279
34	0.00047	0.00052	57	0.00153	0.00315
35	0.00046	0.00053	58	0.00174	0.00356
36	0.00044	0.00054	59	0.00197	0.00402
37	0.00044	0.00056	60	0.00222	0.00454
38	0.00043	0.00060			

Note: These death rates should not be compared to other published rates or used for other purposes without examining the exposure formula used in the derivation. These rates may appear lower.

**NONDISABILITY, TEMPORARY DISABILITY &  
PERMANENT DISABILITY RETIREMENT RATES**

**OFFICERS (BY COMPLETED YEARS OF SERVICE)**

<u>Service</u>	<u>Non- disability</u>	<u>Temporary Disability</u>	<u>Permanent Disability</u>
0	0.00000	0.00047	0.00010
1	0.00000	0.00091	0.00010
2	0.00000	0.00108	0.00014
3	0.00000	0.00119	0.00020
4	0.00000	0.00141	0.00020
5	0.00000	0.00141	0.00021
6	0.00000	0.00140	0.00045
7	0.00000	0.00139	0.00042
8	0.00000	0.00137	0.00041
9	0.00000	0.00135	0.00041
10	0.00000	0.00132	0.00041
11	0.00000	0.00129	0.00042
12	0.00000	0.00126	0.00043
13	0.00000	0.00122	0.00044
14	0.00000	0.00118	0.00045
15	0.00000	0.00114	0.00049
16	0.00000	0.00110	0.00057
17	0.00000	0.00106	0.00063
18	0.00347	0.00101	0.00067
19	0.24864	0.00315	0.00178
20	0.21321	0.00368	0.00212
21	0.15575	0.00252	0.00154
22	0.13622	0.00324	0.00152
23	0.14206	0.00387	0.00213
24	0.13304	0.00317	0.00208
25	0.17935	0.00364	0.00173
26	0.19575	0.00652	0.00312
27	0.22252	0.00557	0.00247
28	0.20871	0.00536	0.00342
29	0.49051	0.00999	0.00465
30	0.38562	0.01536	0.00704
31	0.29794	0.01121	0.00520
32	0.26331	0.01121	0.00520
33	0.25878	0.01121	0.00520
34	1.00000	0.01121	0.00520

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.



**NONDISABILITY, TEMPORARY DISABILITY &  
PERMANENT DISABILITY RETIREMENT RATES**

**ENLISTED (BY COMPLETED YEARS OF SERVICE)**

<u>Service</u>	<u>Non- disability</u>	<u>Temporary Disability</u>	<u>Permanent Disability</u>
0	0.00000	0.00133	0.00008
1	0.00000	0.00186	0.00020
2	0.00000	0.00224	0.00026
3	0.00000	0.00264	0.00032
4	0.00000	0.00233	0.00039
5	0.00000	0.00237	0.00047
6	0.00000	0.00241	0.00055
7	0.00000	0.00244	0.00065
8	0.00000	0.00246	0.00075
9	0.00000	0.00248	0.00085
10	0.00000	0.00248	0.00087
11	0.00000	0.00247	0.00111
12	0.00000	0.00246	0.00109
13	0.00000	0.00243	0.00117
14	0.00000	0.00239	0.00119
15	0.00000	0.00233	0.00138
16	0.00000	0.00227	0.00160
17	0.00000	0.00219	0.00180
18	0.00889	0.00211	0.00169
19	0.38421	0.00984	0.00611
20	0.29535	0.00849	0.00555
21	0.24726	0.00623	0.00431
22	0.23942	0.00711	0.00436
23	0.20607	0.00616	0.00384
24	0.15163	0.00575	0.00352
25	0.29930	0.00719	0.00374
26	0.26685	0.00797	0.00434
27	0.28005	0.00869	0.00464
28	0.22416	0.00892	0.00578
29	0.74153	0.01750	0.00902
30	0.59236	0.03134	0.01343
31	0.44519	0.02634	0.00553
32	0.55794	0.02634	0.00553
33	0.42194	0.02634	0.00553
34	1.00000	0.02634	0.00553

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

**WITHDRAWAL, REENTRANT, AND NET LOSS RATES  
FOR ACTIVE DUTY PERSONNEL**

**OFFICERS (BY COMPLETED YEARS OF SERVICE)**

<u>Service</u>	<u>Withdrawal</u>	<u>Reentrant</u>	<u>Net Loss</u>
0	0.01853	0.10721	-0.08868
1	0.02146	0.02793	-0.00647
2	0.09706	0.02077	0.07629
3	0.12175	0.02203	0.09972
4	0.10137	0.01342	0.08795
5	0.08953	0.01200	0.07753
6	0.10404	0.01079	0.09325
7	0.09171	0.00978	0.08193
8	0.06608	0.00892	0.05716
9	0.05290	0.00820	0.04470
10	0.07522	0.00759	0.06763
11	0.05271	0.00708	0.04563
12	0.03393	0.00669	0.02724
13	0.02085	0.00641	0.01444
14	0.01638	0.00624	0.01014
15	0.01016	0.00616	0.00400
16	0.00677	0.00613	0.00064
17	0.00403	0.00612	-0.00209
18	0.00136	0.00605	-0.00469
19	0.00000	0.00588	-0.00588
20	0.00000	0.00593	-0.00593
21	0.00000	0.00608	-0.00608
22	0.00000	0.00593	-0.00593
23	0.00000	0.00551	-0.00551
24	0.00000	0.00502	-0.00502
25	0.00000	0.00481	-0.00481
26	0.00000	0.00513	-0.00513
27	0.00000	0.00582	-0.00582
28	0.00000	0.00651	-0.00651
29	0.00000	0.00693	-0.00693
30	0.00000	0.00721	-0.00721
31	0.00000	0.00752	-0.00752
32	0.00000	0.00797	-0.00797
33	0.00000	0.00859	-0.00859
34	0.00000	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

**WITHDRAWAL, REENTRANT, AND NET LOSS RATES  
FOR ACTIVE DUTY PERSONNEL**

**ENLISTED (BY COMPLETED YEARS OF SERVICE)**

<u>Service</u>	<u>Withdrawal</u>	<u>Reentrant</u>	<u>Net Loss</u>
0	0.09942	0.02762	0.07180
1	0.12089	0.00675	0.11414
2	0.23464	0.01681	0.21783
3	0.38358	0.02668	0.35690
4	0.13710	0.01213	0.12497
5	0.15718	0.01239	0.14479
6	0.11933	0.00955	0.10978
7	0.12117	0.01017	0.11100
8	0.09183	0.00945	0.08238
9	0.08037	0.00939	0.07098
10	0.05609	0.00671	0.04938
11	0.05048	0.00656	0.04392
12	0.04141	0.00570	0.03571
13	0.02881	0.00510	0.02371
14	0.02252	0.00453	0.01799
15	0.01753	0.00416	0.01337
16	0.01273	0.00403	0.00870
17	0.00859	0.00395	0.00464
18	0.00412	0.00367	0.00045
19	0.00000	0.00282	-0.00282
20	0.00000	0.00262	-0.00262
21	0.00000	0.00250	-0.00250
22	0.00000	0.00232	-0.00232
23	0.00000	0.00218	-0.00218
24	0.00000	0.00215	-0.00215
25	0.00000	0.00214	-0.00214
26	0.00000	0.00210	-0.00210
27	0.00000	0.00197	-0.00197
28	0.00000	0.00182	-0.00182
29	0.00000	0.00162	-0.00162
30	0.00000	0.00549	-0.00549
31	0.00000	0.00589	-0.00589
32	0.00000	0.00790	-0.00790
33	0.00000	0.01682	-0.01682
34	0.00000	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

## PERCENTAGE DISTRIBUTION OF NEW ENTRANTS

(Age Nearest Birthday)

<u>Age</u>	<u>Officers</u>	<u>Enlisted</u>	<u>Total</u>
17	0.00000	0.00100	0.00100
18	0.00000	0.13208	0.13208
19	0.00000	0.26465	0.26465
20	0.00001	0.20201	0.20202
21	0.00021	0.11321	0.11342
22	0.01183	0.06925	0.08108
23	0.01764	0.04632	0.06396
24	0.01084	0.03306	0.04390
25	0.00535	0.02325	0.02860
26	0.00421	0.01608	0.02029
27	0.00319	0.01077	0.01396
28	0.00201	0.00781	0.00982
29	0.00143	0.00524	0.00667
30	0.00121	0.00369	0.00490
31	0.00094	0.00275	0.00369
32	0.00073	0.00210	0.00283
33	0.00061	0.00164	0.00225
34	0.00049	0.00133	0.00182
35	0.00041	0.00118	0.00159
36	0.00025	0.00030	0.00055
37	0.00019	0.00003	0.00022
38	0.00014	0.00000	0.00014
39	0.00012	0.00000	0.00012
40	0.00008	0.00000	0.00008
41	0.00007	0.00000	0.00007
42	0.00004	0.00000	0.00004
43	0.00005	0.00000	0.00005
44	0.00004	0.00000	0.00004
45	0.00003	0.00000	0.00003
46	0.00002	0.00000	0.00002
47	0.00001	0.00000	0.00001
48	0.00002	0.00000	0.00002
49	0.00002	0.00000	0.00002
50	0.00001	0.00000	0.00001
51	0.00001	0.00000	0.00001
52	0.00001	0.00000	0.00001
53	0.00001	0.00000	0.00001
54	0.00001	0.00000	0.00001
55	0.00001	0.00000	0.00001
Total	0.06225	0.93775	1.00000

**TRANSFER RATES (BY COMPLETED YEARS OF SERVICE)**

<u>Service</u>	<u>Officer to Enlisted</u>	<u>Enlisted to Officer</u>
0	0.00021	0.00286
1	0.00015	0.00092
2	0.00006	0.00081
3	0.00024	0.00106
4	0.00020	0.00162
5	0.00009	0.00188
6	0.00017	0.00235
7	0.00019	0.00326
8	0.00020	0.00435
9	0.00022	0.00521
10	0.00024	0.00550
11	0.00074	0.00556
12	0.00139	0.00595
13	0.00119	0.00588
14	0.00178	0.00465
15	0.00232	0.00357
16	0.00254	0.00258
17	0.00134	0.00173
18	0.00035	0.00116
19	0.00011	0.00099
20	0.00009	0.00117
21	0.00005	0.00113
22	0.00003	0.00067
23	0.00000	0.00114
24	0.00000	0.00044
25	0.00000	0.00004
26	0.00000	0.00000
27	0.00000	0.00000
28	0.00000	0.00000
29	0.00000	0.00000
30	0.00000	0.00000
31	0.00000	0.00000
32	0.00000	0.00000
33	0.00000	0.00000
34	0.00000	0.00000

Example: Nine completed years of service could include anything from 9.0 to 9.999 years of service. The associated rate applied to the number of people at the beginning of the year in the category will produce the expected number of occurrences during the following year.

PROMOTION AND MERIT BASIC PAY INCREASE RATIOS  
OFFICER

YOS	ENTRY AGE										
	16	17	18	19	20	21	22	23	24	25	26
1	1.04869	1.07117	1.07253	1.05917	1.08088	1.00175	1.03393	1.07506	1.12183	1.10778	1.12042
2	1.06337	1.06186	1.06554	1.10053	1.12638	1.13308	1.22472	1.23112	1.21045	1.19876	1.10818
3	1.06454	1.04964	1.05758	1.08123	1.11660	1.19125	1.18954	1.15460	1.12945	1.11689	1.09664
4	1.06760	1.03496	1.05120	1.05265	1.09105	1.10239	1.10380	1.08873	1.07747	1.07821	1.05408
5	1.07203	1.01678	1.04682	1.03931	1.05995	1.04300	1.05000	1.04899	1.04788	1.04817	1.03624
6	1.07735	1.00213	1.04720	1.03986	1.03113	1.04584	1.03728	1.03428	1.03032	1.03618	1.04171
7	1.08310	0.99441	1.04865	1.04385	1.01673	1.01117	1.01721	1.01914	1.02305	1.02458	1.02754
8	1.06975	0.99242	1.04787	1.04735	1.01832	1.02861	1.02994	1.02948	1.02790	1.03697	1.02998
9	1.01761	1.00418	1.04057	1.03792	1.02696	1.01653	1.01981	1.02108	1.02569	1.02268	1.02016
10	1.02767	1.02783	1.03478	1.03837	1.03792	1.03933	1.03975	1.04043	1.04083	1.04152	1.03398
11	1.02988	1.03665	1.03326	1.03360	1.03673	1.01762	1.04421	1.04926	1.04919	1.04301	1.03757
12	1.02494	1.03505	1.04364	1.04368	1.03871	1.02916	1.05787	1.05499	1.04464	1.04348	1.03970
13	1.04570	1.03765	1.04499	1.03867	1.03212	1.02103	1.02136	1.02412	1.02416	1.01959	1.02054
14	1.05093	1.04216	1.04419	1.04897	1.03797	1.03623	1.02123	1.02070	1.02121	1.02290	1.02162
15	1.04279	1.04444	1.03421	1.03564	1.03738	1.01897	1.02371	1.02438	1.02652	1.02940	1.02801
16	1.02354	1.04071	1.03487	1.03947	1.03212	1.03224	1.03915	1.03855	1.03646	1.03734	1.03190
17	1.03907	1.03399	1.03411	1.03235	1.02640	1.01364	1.03112	1.03220	1.03197	1.03399	1.02524
18	1.04321	1.03098	1.03823	1.04342	1.03129	1.02875	1.03007	1.02947	1.02613	1.03051	1.02518
19	1.03737	1.02697	1.03511	1.02660	1.02586	1.01659	1.01779	1.02084	1.02550	1.02327	1.03153
20	1.02302	1.02333	1.03619	1.02736	1.03105	1.04201	1.03623	1.03944	1.04475	1.04854	1.04537
21	1.02920	1.01703	1.03120	1.02746	1.03551	1.04286	1.04496	1.04777	1.05017	1.04631	1.03784
22	1.02068	1.02209	1.02562	1.03102	1.04410	1.05600	1.05716	1.05521	1.04952	1.05017	1.03011
23	1.01287	1.02610	1.02053	1.01990	1.03476	1.04130	1.04487	1.04174	1.03753	1.03806	1.02634
24	1.00553	1.02993	1.01642	1.01875	1.02601	1.03153	1.03367	1.03205	1.03018	1.02871	1.02292
25	0.99850	1.03349	1.01786	1.01812	1.02114	1.03136	1.03214	1.02707	1.02752	1.02208	1.01565
26	0.99162	1.03992	1.02377	1.03395	1.02453	1.03868	1.03472	1.02570	1.02430	1.01698	1.01280
27	1.03722	1.03722	1.02974	1.02994	1.02722	1.02393	1.02313	1.01769	1.01883	1.01010	1.01240
28	1.04324	1.04324	1.03428	1.02330	1.03307	1.02798	1.01898	1.02101	1.02034	1.01974	1.01572
29	1.04304	1.04304	1.04466	1.03458	1.04081	1.03819	1.03302	1.03804	1.02750	1.03600	1.01834
30	1.04377	1.04377	1.05389	1.05989	1.05161	1.04430	1.05555	1.05674	1.03520	1.06096	1.01843
31	1.04010	1.04010	1.05016	1.05313	1.04196	1.04545	1.06050	1.05705	1.03570	1.06446	1.01578
32	1.03268	1.03268	1.04309	1.03720	1.03250	1.04378	1.03719	1.03716	1.02745	1.03458	1.01528
33	1.02981	1.02981	1.03588	1.02713	1.02748	1.01689	0.99345	1.00200	1.01287	0.98586	1.01927
34	1.03052	1.03052	1.02944	1.02576	1.02588	0.96638	0.93942	0.95817	0.99523	0.92861	1.02533

THE NUMBER THAT APPEARS, FOR EXAMPLE, IN THE COLUMN MARKED "20" AND THE ROW MARKED "2" IS THE RATIO OF BASIC PAY AT TWO YEARS OF SERVICE TO BASIC PAY AT ONE YEAR OF SERVICE FOR A MEMBER WHO ENTERED AT AGE 20.

PROMOTION AND MERIT BASIC PAY INCREASE RATIOS  
ENLISTED

YOS	ENTRY AGE										
	16	17	18	19	20	21	22	23	24	25	26
1	1.12843	1.13369	1.14280	1.11248	1.08880	1.08606	1.08784	1.09145	1.08506	1.08773	1.18498
2	1.10677	1.12166	1.12523	1.12393	1.12275	1.12277	1.12134	1.11879	1.12288	1.11989	1.13183
3	1.08374	1.10398	1.10304	1.10201	1.09763	1.09513	1.09369	1.09226	1.09255	1.09643	1.09741
4	1.05931	1.07281	1.07123	1.06793	1.06478	1.06363	1.06223	1.06165	1.06196	1.06264	1.05130
5	1.05131	1.04436	1.03784	1.04277	1.04317	1.04226	1.04248	1.04199	1.03839	1.04015	1.02491
6	1.05082	1.05223	1.05125	1.04421	1.04258	1.04424	1.04254	1.04168	1.04289	1.03995	1.03368
7	1.03703	1.04078	1.03356	1.03465	1.03537	1.03418	1.03511	1.03605	1.03491	1.03633	1.03834
8	1.02295	1.04827	1.04525	1.04145	1.04031	1.04104	1.03872	1.03865	1.04090	1.03787	1.03801
9	1.03454	1.02927	1.02896	1.03209	1.03290	1.03194	1.03384	1.03461	1.03271	1.03438	1.03138
10	1.04768	1.04548	1.04724	1.04492	1.04377	1.04243	1.03995	1.03810	1.03880	1.03516	1.02790
11	1.03936	1.03107	1.03046	1.03208	1.03306	1.03236	1.03427	1.03373	1.03077	1.03355	1.02762
12	1.03964	1.05038	1.04708	1.04401	1.04126	1.04020	1.03854	1.03712	1.03728	1.03606	1.02817
13	1.04655	1.02933	1.03075	1.02993	1.03082	1.03013	1.03241	1.03268	1.03095	1.03409	1.02364
14	1.05292	1.04244	1.04015	1.03745	1.03532	1.03461	1.03261	1.03279	1.03401	1.03350	1.02336
15	1.05351	1.02633	1.02652	1.02532	1.02631	1.02663	1.02746	1.03038	1.03233	1.03254	1.02638
16	1.05397	1.03747	1.03679	1.03605	1.03518	1.03540	1.03307	1.03452	1.03738	1.03328	1.02939
17	1.04113	1.02304	1.02736	1.02544	1.02485	1.02806	1.03114	1.03370	1.03391	1.03190	1.02919
18	1.02573	1.03484	1.03728	1.03664	1.03621	1.03470	1.03418	1.03296	1.03036	1.03025	1.02900
19	1.00767	1.03005	1.03163	1.02723	1.02350	1.02572	1.03400	1.03324	1.03057	1.03384	1.03236
20	0.99779	1.05918	1.05003	1.05351	1.05880	1.05706	1.05299	1.04626	1.04777	1.04443	1.03981
21	1.00539	1.06129	1.04827	1.04709	1.04605	1.04741	1.05058	1.04957	1.04493	1.04821	1.04511
22	1.01452	1.05884	1.05007	1.05372	1.05779	1.05529	1.05037	1.05076	1.04874	1.04852	1.04788
23	1.02493	1.03857	1.04560	1.04521	1.04513	1.04476	1.04637	1.04743	1.04962	1.04817	1.04785
24	1.03622	1.03886	1.04760	1.04865	1.05022	1.04732	1.04548	1.04436	1.04915	1.04772	1.04500
25	1.04793	1.03079	1.04447	1.04428	1.04395	1.04112	1.04185	1.04117	1.04344	1.04448	1.03968
26	1.06243	1.05114	1.04599	1.05120	1.04943	1.05077	1.03999	1.03922	1.04037	1.03857	1.03300
27	1.06745	1.03254	1.03090	1.03344	1.03211	1.03392	1.03116	1.03220	1.03026	1.02986	1.02581
28	1.06403	1.01223	1.01816	1.01868	1.01886	1.01927	1.02260	1.02549	1.02160	1.02055	1.01900
29	1.04768	1.00153	1.00957	1.00904	1.00977	1.01063	1.01582	1.02042	1.01595	1.01251	1.01286
30	1.02933	0.99867	1.00638	1.00530	1.00577	1.00716	1.01123	1.00436	1.00718	1.00637	1.00741
31	1.01190	1.00401	1.00479	1.00373	1.00377	1.00564	1.00000	1.00000	1.00000	1.00182	1.00254
32	1.00000	1.00664	1.00047	1.00264	1.00200	1.00010	1.00000	1.00000	1.00000	0.99831	0.99796
33	1.00000	1.00677	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99525	0.99347
34	1.00000	1.00441	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	1.00000	0.99231	0.98896

THE NUMBER THAT APPEARS, FOR EXAMPLE, IN THE COLUMN MARKED "20" AND THE ROW MARKED "2" IS THE RATIO OF BASIC PAY AT TWO YEARS OF SERVICE TO BASIC PAY AT ONE YEAR OF SERVICE FOR A MEMBER WHO ENTERED AT AGE 20.

## APPENDIX H

### DRILLING RESERVE RATES

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## RESERVE RATES

The reserve rates consist of (1) separation rates, (2) the distribution of new entrants or reentrants into the Selected Reserve, (3) a timing table that shows when new entrants or reentrants enter, and (4) a table of expected pay for each cell to determine reserve payroll.

The Selected Reserve separation rates give the probability a Selected Reservist on duty at the beginning of the fiscal year leaves the Selected Reserve during the fiscal year. The Selected Reserve separation rates are given by age of reservist, by number of years of active duty service, and by whether the Selected Reservist is an officer or enlistee. A transfer from officer to enlisted status or vice versa is treated as a separation combined with a reentrance.

The Selected Reserve separation rates are based on fiscal years 1989-91. In most cases the separation rates are not smoothed. However, cells with numerators of fewer than 20 cases were combined with other cells or smoothed by fitting equations to the data using weighted-least-squares regression. It is assumed that no Selected Reservist continues on duty past age 60. Pages H-3 and H-4 display the resulting Selected Reserve separation rates.

The distribution of new entrants and reentrants into the Selected Reserve is used for both open group and closed group projections. This distribution gives the proportion of cases by officer/enlisted, age nearest birthday, and completed years of active duty. For this purpose, a new entrant or reentrant is defined as someone who was actively on the Reserve Component Common Personnel Data System file at the end of a fiscal year, but not at the beginning. These percentage distributions were determined using fiscal years 1989-91, and are shown on pages H-5 and H-6.

The timing table has the same dimensions as the entrant/reentrant distribution and operates in concordance with it. Every cell of the timing table has an integer representing the year in which persons in that cell should enter. For a normal cost run, cells with a 1 enter at the start of the projection; cells with a 2 enter the next year, and so on. For open-group runs all cells enter every year. For closed group runs, all cells except 1's enter after the first year, all cells except 1's or 2's enter after the second year, and so on. The timing table is based on fiscal years 1989-91.

The reserve expected pay tables are also used to estimate longevity increases other than the across-the-board pay increases. The current tables are based on fiscal years 1989-91. They are given by length of active service, by age, and by officer/enlisted. They were created by computing first the average pay in each cell as if the Reservist were on full-time active duty, and using the same pay table (July 1, 2000). Each cell was multiplied by paid points in that cell. Cells based on few observations were combined with other cells or smoothed using weighted least squares regression. The result was rescaled to be appropriate for the January 1, 2001 pay table.

## Officer Selected Reserve Separation Rates

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	0.0730	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	0.0730	0.1100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	0.0730	0.1100	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.0730	0.1100	0.0370	0.0480	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.1040	0.1100	0.0370	0.0480	0.1830	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	0.1690	0.1100	0.0370	0.0480	0.1830	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	0.1780	0.1100	0.0370	0.0480	0.1830	0.1590	0.2030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	0.1530	0.1630	0.1610	0.1550	0.1830	0.1590	0.2030	0.1650	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.1370	0.1490	0.2090	0.1690	0.1830	0.1590	0.2030	0.1650	0.1370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.1370	0.1490	0.1600	0.1810	0.1730	0.1590	0.2030	0.1650	0.1370	0.1590	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27	0.1390	0.1240	0.1440	0.2070	0.1710	0.1590	0.2030	0.1650	0.1370	0.1590	0.0980	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.1400	0.1050	0.1350	0.1930	0.1830	0.1670	0.1700	0.1650	0.1370	0.1590	0.0980	0.2030	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.1350	0.1060	0.1360	0.1550	0.1550	0.1610	0.1650	0.2020	0.1370	0.1590	0.0980	0.2030	0.1050	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.1340	0.1200	0.1500	0.1490	0.1520	0.1710	0.1250	0.1300	0.1370	0.1590	0.0980	0.2030	0.1050	0.1080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31	0.1280	0.1000	0.1200	0.1430	0.1400	0.1440	0.1450	0.1420	0.1260	0.1590	0.0980	0.2030	0.1050	0.1080	0.1320	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32	0.1240	0.1030	0.1270	0.1340	0.1380	0.1350	0.1340	0.1240	0.1340	0.1470	0.0980	0.2030	0.1050	0.1080	0.1280	0.1400	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33	0.1130	0.1130	0.1050	0.1240	0.1100	0.1170	0.1380	0.1200	0.1110	0.1120	0.0980	0.2030	0.1050	0.1080	0.1230	0.1350	0.0960	0.0000	0.0000	0.0000	0.0000	0.0000
34	0.1090	0.1060	0.1230	0.1290	0.1080	0.1260	0.1230	0.1330	0.1020	0.1140	0.0920	0.1270	0.1050	0.1080	0.1190	0.1310	0.0990	0.0990	0.0000	0.0000	0.0000	0.0000
35	0.0950	0.0830	0.1080	0.1190	0.1120	0.1110	0.1030	0.1180	0.0970	0.1190	0.0880	0.1180	0.1050	0.1080	0.1140	0.1260	0.1010	0.1010	0.1090	0.0000	0.0000	0.0000
36	0.0990	0.0900	0.1090	0.1200	0.1070	0.1110	0.1130	0.1070	0.1080	0.0910	0.0790	0.0860	0.1170	0.1080	0.1090	0.1210	0.1020	0.1020	0.1090	0.1090	0.0000	0.0000
37	0.0900	0.0900	0.0990	0.1100	0.0900	0.1110	0.0910	0.0990	0.0900	0.0940	0.0890	0.1070	0.0880	0.1080	0.1040	0.1160	0.1030	0.1030	0.1080	0.1080	0.1080	0.1080
38	0.0830	0.0790	0.0870	0.1040	0.1000	0.0980	0.1000	0.1120	0.1040	0.1090	0.1110	0.0800	0.0870	0.1210	0.0990	0.1110	0.1030	0.1030	0.1050	0.1050	0.1050	0.1050
39	0.0850	0.0770	0.0790	0.0800	0.0870	0.1000	0.1160	0.0940	0.0780	0.0910	0.0930	0.1050	0.0830	0.1300	0.0940	0.1060	0.1020	0.1020	0.1030	0.1030	0.1030	0.1030
40	0.0730	0.0740	0.0760	0.0780	0.0840	0.0820	0.0950	0.0970	0.0850	0.0980	0.0850	0.0940	0.0690	0.1320	0.0880	0.1010	0.1050	0.1050	0.1140	0.1140	0.1140	0.1140
41	0.0720	0.0750	0.0770	0.0780	0.0840	0.0920	0.1020	0.0880	0.1020	0.0920	0.0910	0.1240	0.0850	0.1070	0.0880	0.0990	0.1120	0.1120	0.1300	0.1300	0.1300	0.1300
42	0.0780	0.0730	0.0750	0.0830	0.0870	0.1010	0.0940	0.0920	0.0990	0.1030	0.1170	0.1210	0.0900	0.1330	0.0960	0.1020	0.1230	0.1230	0.1480	0.1480	0.1480	0.1480
43	0.0910	0.0870	0.0830	0.0990	0.0980	0.1120	0.1240	0.1260	0.1270	0.1440	0.1320	0.1350	0.1080	0.1310	0.1070	0.1090	0.1360	0.1360	0.1650	0.1650	0.1650	0.1650
44	0.0920	0.0680	0.0850	0.1040	0.1080	0.1140	0.1570	0.1250	0.1530	0.1480	0.1720	0.1260	0.0930	0.1540	0.1210	0.1210	0.1520	0.1520	0.1820	0.1820	0.1820	0.1820
45	0.0970	0.0910	0.1110	0.0940	0.1060	0.1230	0.1480	0.1500	0.1510	0.1670	0.1830	0.1180	0.1050	0.1440	0.1380	0.1380	0.1700	0.1700	0.2000	0.2000	0.2000	0.2000
46	0.0860	0.0920	0.0970	0.1060	0.1160	0.1390	0.1490	0.1440	0.1560	0.1340	0.1770	0.1460	0.0820	0.1550	0.1550	0.1580	0.1900	0.1900	0.2150	0.2150	0.2150	0.2150
47	0.0910	0.0960	0.0910	0.1030	0.1170	0.1270	0.1650	0.1290	0.1470	0.1610	0.1590	0.1450	0.1430	0.1650	0.1740	0.1830	0.2100	0.2100	0.2310	0.2310	0.2310	0.2310
48	0.0890	0.0680	0.1080	0.0990	0.1140	0.1290	0.1540	0.1260	0.1860	0.1770	0.1680	0.1380	0.1670	0.1750	0.1930	0.2100	0.2300	0.2300	0.2440	0.2440	0.2440	0.2440
49	0.1040	0.1250	0.1330	0.1260	0.1650	0.1550	0.2150	0.1680	0.1590	0.1930	0.1940	0.1560	0.1930	0.1850	0.2120	0.2380	0.2490	0.2490	0.2570	0.2570	0.2570	0.2570
50	0.1030	0.1180	0.1590	0.1510	0.1530	0.1870	0.2250	0.1790	0.1870	0.2140	0.1920	0.2150	0.2370	0.1930	0.2300	0.2660	0.2670	0.2670	0.2650	0.2650	0.2650	0.2650
51	0.1180	0.1310	0.1620	0.1470	0.1810	0.1900	0.2550	0.2740	0.1850	0.2150	0.2520	0.2450	0.2460	0.1990	0.2460	0.2920	0.2840	0.2840	0.2720	0.2720	0.2720	0.2720
52	0.1500	0.1800	0.1840	0.1870	0.2110	0.2000	0.2610	0.1560	0.2680	0.2370	0.2080	0.2260	0.2180	0.2030	0.2620	0.3150	0.2980	0.2980	0.2750	0.2750	0.2750	0.2750
53	0.1610	0.1800	0.1770	0.2200	0.1950	0.1770	0.2930	0.2740	0.2210	0.2240	0.2250	0.2330	0.2180	0.2050	0.2760	0.3320	0.3090	0.3090	0.2730	0.2730	0.2730	0.2730
54	0.1370	0.1630	0.1740	0.1710	0.1980	0.1960	0.2560	0.2380	0.2260	0.2220	0.2150	0.2360	0.2120	0.2050	0.2860	0.3390	0.3170	0.3170	0.2650	0.2650	0.2650	0.2650
55	0.1870	0.1970	0.1730	0.1560	0.2120	0.1950	0.2520	0.2420	0.2230	0.2160	0.1990	0.2350	0.1990	0.2010	0.2950	0.3350	0.3210	0.3210	0.2520	0.2520	0.2520	0.2520
56	0.1320	0.1610	0.1540	0.1460	0.1610	0.1880	0.2370	0.2430	0.2160	0.2050	0.1770	0.2290	0.1770	0.1950	0.3010	0.3150	0.3200	0.3200	0.2320	0.2320	0.2320	0.2320
57	0.1480	0.1600	0.1300	0.1610	0.1810	0.1790	0.2140	0.2410	0.2040	0.1890	0.1480	0.2180	0.1470	0.1840	0.3030	0.2750	0.3150	0.3150	0.2040	0.2040	0.2040	0.2040
58	0.1190	0.1320	0.1280	0.1540	0.1670	0.1640	0.1820	0.2360	0.1880	0.1680	0.1120	0.2010	0.1070	0.1670	0.3030	0.2120	0.3040	0.3040	0.1680	0.1680	0.1680	0.1680
59	0.1550	0.1490	0.1650	0.1770	0.1860	0.1930	0.1990	0.2030	0.2060	0.2080	0.2090	0.2090	0.2080	0.2070	0.2040	0.2010	0.1970	0.1920	0.1860	0.1800	0.1730	0.1730
60+	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

## Enlisted Selected Reserve Separation Rates

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
17	0.1370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	0.1690	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
19	0.2030	0.1930	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
20	0.1960	0.1870	0.1900	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
21	0.1980	0.2030	0.2390	0.2580	0.3160	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
22	0.2040	0.2200	0.2680	0.2910	0.2690	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
23	0.2400	0.2280	0.3160	0.3420	0.3390	0.3040	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
24	0.2550	0.2670	0.3430	0.3610	0.3610	0.3720	0.2980	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
25	0.2430	0.2620	0.3210	0.3290	0.3330	0.3180	0.3510	0.3500	0.2780	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
26	0.2240	0.2660	0.2840	0.2910	0.2820	0.2880	0.3260	0.3390	0.3850	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
27	0.2090	0.2530	0.2590	0.2630	0.2510	0.2520	0.2770	0.2880	0.3160	0.3120	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
28	0.1900	0.2390	0.2340	0.2400	0.2230	0.2270	0.2430	0.2690	0.2790	0.2720	0.2280	0.2000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
29	0.1840	0.2330	0.2110	0.2240	0.2150	0.2170	0.2330	0.2380	0.2440	0.2420	0.2900	0.2000	0.1840	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
30	0.1780	0.2130	0.2080	0.2050	0.1940	0.1960	0.2100	0.2320	0.2120	0.2300	0.2460	0.2450	0.3920	0.1840	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
31	0.1620	0.1940	0.1940	0.1930	0.1850	0.1880	0.1930	0.2090	0.1980	0.2170	0.2270	0.2480	0.2560	0.1840	0.2810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
32	0.1470	0.1790	0.1740	0.1740	0.1630	0.1780	0.1830	0.2020	0.1800	0.1820	0.1950	0.2320	0.2600	0.3070	0.2600	0.2600	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
33	0.1410	0.1520	0.1480	0.1560	0.1520	0.1480	0.1560	0.1860	0.1760	0.1750	0.1780	0.2170	0.2040	0.2190	0.2400	0.2400	0.1930	0.0000	0.0000	0.0000	0.0000	0.0000
34	0.1320	0.1440	0.1380	0.1390	0.1410	0.1340	0.1440	0.1500	0.1510	0.1610	0.1710	0.1870	0.1820	0.1890	0.2210	0.2210	0.2750	0.1900	0.0000	0.0000	0.0000	0.0000
35	0.1180	0.1190	0.1370	0.1380	0.1340	0.1230	0.1260	0.1480	0.1230	0.1550	0.1830	0.1620	0.1710	0.1820	0.2030	0.2030	0.1860	0.1860	0.1860	0.0000	0.0000	0.0000
36	0.1050	0.1150	0.1160	0.1210	0.1150	0.1160	0.1220	0.1150	0.1160	0.1410	0.1380	0.1450	0.1460	0.1990	0.1870	0.1870	0.1810	0.1810	0.1810	0.1810	0.0000	0.0000
37	0.0890	0.1030	0.1180	0.1090	0.1050	0.1230	0.1140	0.1100	0.1030	0.1170	0.1320	0.1160	0.1480	0.1580	0.1720	0.1720	0.3420	0.4190	0.4190	0.4190	0.4190	0.4190
38	0.0900	0.0960	0.1060	0.1040	0.1040	0.0920	0.1050	0.1170	0.1120	0.1050	0.1140	0.1380	0.1420	0.1540	0.1580	0.1580	0.3220	0.3870	0.3870	0.3870	0.3870	0.3870
39	0.0970	0.0930	0.0960	0.0950	0.0910	0.0990	0.1180	0.1070	0.1080	0.1090	0.1040	0.1460	0.1300	0.1280	0.1540	0.1510	0.3010	0.3550	0.3550	0.3550	0.3550	0.3550
40	0.1000	0.0870	0.0910	0.0920	0.0790	0.1010	0.0940	0.1010	0.1260	0.1240	0.1210	0.1150	0.1430	0.1650	0.1560	0.1490	0.2810	0.3260	0.3260	0.3260	0.3260	0.3260
41	0.0990	0.0880	0.0860	0.0880	0.0820	0.0930	0.0970	0.1000	0.1190	0.1210	0.1370	0.1630	0.1230	0.1500	0.1590	0.1490	0.2590	0.2970	0.2970	0.2970	0.2970	0.2970
42	0.1040	0.0830	0.0840	0.0890	0.0860	0.0860	0.1120	0.1060	0.1130	0.1310	0.1380	0.1420	0.1410	0.1720	0.1630	0.1480	0.2400	0.2710	0.2710	0.2710	0.2710	0.2710
43	0.1070	0.0850	0.0830	0.0860	0.0760	0.0980	0.0940	0.1180	0.1110	0.1590	0.1240	0.1610	0.1490	0.1590	0.1660	0.1480	0.2210	0.2460	0.2460	0.2460	0.2460	0.2460
44	0.1100	0.0890	0.0870	0.0820	0.0830	0.0940	0.1100	0.1130	0.1200	0.1580	0.1740	0.1570	0.1750	0.1670	0.1710	0.1480	0.2030	0.2230	0.2230	0.2230	0.2230	0.2230
45	0.1070	0.0850	0.0780	0.0850	0.0820	0.0860	0.1170	0.0990	0.1470	0.1300	0.1750	0.1820	0.1670	0.1740	0.1760	0.1490	0.1860	0.2010	0.2010	0.2010	0.2010	0.2010
46	0.0990	0.0990	0.0810	0.0810	0.0830	0.1050	0.1220	0.1100	0.1170	0.1750	0.1520	0.1990	0.1640	0.1810	0.1800	0.1500	0.1720	0.1830	0.1830	0.1830	0.1830	0.1830
47	0.1070	0.0870	0.0890	0.0850	0.0840	0.1100	0.1170	0.1190	0.1310	0.1910	0.1510	0.1300	0.1620	0.1870	0.1850	0.1510	0.1600	0.1660	0.1660	0.1660	0.1660	0.1660
48	0.1050	0.1040	0.0880	0.0880	0.0830	0.0950	0.1080	0.1300	0.1300	0.1230	0.1450	0.1450	0.1600	0.1920	0.1880	0.1520	0.1500	0.1520	0.1520	0.1520	0.1520	0.1520
49	0.1060	0.0900	0.0800	0.0860	0.0910	0.1160	0.1090	0.1280	0.1230	0.1650	0.1390	0.1890	0.1590	0.1970	0.1930	0.1550	0.1440	0.1430	0.1430	0.1430	0.1430	0.1430
50	0.1110	0.0920	0.0890	0.0960	0.0910	0.1020	0.1360	0.1310	0.1220	0.1230	0.1560	0.1580	0.1590	0.2000	0.1950	0.1560	0.1400	0.1350	0.1350	0.1350	0.1350	0.1350
51	0.1110	0.0840	0.0810	0.0920	0.0970	0.0930	0.0960	0.1210	0.1450	0.1730	0.1600	0.1660	0.1600	0.2010	0.1980	0.1580	0.1390	0.1320	0.1320	0.1320	0.1320	0.1320
52	0.1170	0.0860	0.0890	0.0930	0.0940	0.0890	0.1280	0.1210	0.1400	0.1640	0.1650	0.1640	0.1620	0.2020	0.1990	0.1600	0.1410	0.1330	0.1330	0.1330	0.1330	0.1330
53	0.1230	0.0950	0.0860	0.0810	0.1010	0.1100	0.0940	0.1470	0.1390	0.1780	0.1620	0.1600	0.1670	0.2000	0.1980	0.1620	0.1470	0.1400	0.1400	0.1400	0.1400	0.1400
54	0.1170	0.0920	0.0880	0.0960	0.0950	0.1130	0.1450	0.1510	0.1640	0.1500	0.1750	0.1660	0.1740	0.1960	0.1970	0.1650	0.1550	0.1500	0.1500	0.1500	0.1500	0.1500
55	0.1820	0.1150	0.1130	0.1190	0.1360	0.1550	0.1380	0.1470	0.1560	0.2200	0.1900	0.1750	0.1840	0.1890	0.1930	0.1670	0.1650	0.1660	0.1660	0.1660	0.1660	0.1660
56	0.1570	0.1160	0.1220	0.1230	0.1470	0.1820	0.1770	0.1520	0.1430	0.2120	0.1990	0.1880	0.1980	0.1800	0.1870	0.1690	0.1770	0.1880	0.1880	0.1880	0.1880	0.1880
57	0.1640	0.1250	0.1150	0.1380	0.1450	0.1610	0.1480	0.1570	0.1970	0.1940	0.1890	0.2060	0.2160	0.1680	0.1790	0.1710	0.1920	0.2170	0.2170	0.2170	0.2170	0.2170
58	0.1520	0.1150	0.1130	0.1510	0.1630	0.1700	0.1530	0.1620	0.2050	0.1960	0.1850	0.2270	0.2390	0.1520	0.1670	0.1730	0.2080	0.2540	0.2540	0.2540	0.2540	0.2540
59	0.2400	0.1860	0.1950	0.2060	0.2160	0.2080	0.2400	0.2410	0.2420	0.2420	0.2410	0.2390	0.2360	0.2310	0.2250	0.2170	0.2080	0.1980	0.1860	0.1720	0.1570	0.1570
60+	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

## Officer Selected Reserve New Entrant Rates \*

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	21	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	303	5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	469	17	9	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	453	20	24	16	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	345	21	32	32	9	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	293	20	41	62	20	4	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
27	266	20	45	113	69	16	4	2	3	1	0	0	0	0	0	0	0	0	0	0	0	0
28	249	17	37	98	99	51	12	5	4	1	2	2	0	0	0	0	0	0	0	0	0	0
29	224	11	33	89	85	70	40	15	5	1	2	2	2	0	0	0	0	0	0	0	0	0
30	229	9	25	77	68	58	58	63	13	3	2	1	1	1	0	0	0	0	0	0	0	0
31	183	7	27	64	62	50	45	83	41	8	4	1	3	1	1	0	0	0	0	0	0	0
32	174	9	25	55	48	39	38	64	60	30	8	2	2	2	1	1	0	0	0	0	0	0
33	155	6	20	44	49	31	38	41	39	37	29	9	3	1	1	0	1	0	0	0	0	0
34	120	8	14	38	41	27	29	36	35	29	41	45	7	4	1	1	1	0	0	0	0	0
35	113	7	17	38	33	25	27	32	28	26	32	55	16	5	2	1	1	0	0	0	0	0
36	96	6	14	30	29	17	23	21	22	22	23	38	24	12	4	2	2	1	0	1	0	0
37	90	7	11	28	23	21	17	15	15	17	19	30	19	13	8	3	1	1	0	1	0	0
38	71	5	13	26	20	16	18	15	15	16	13	23	19	11	12	4	2	1	1	0	1	0
39	73	10	17	18	20	16	17	14	13	10	8	20	13	9	9	5	2	1	1	1	1	0
40	77	9	19	20	17	15	13	11	12	9	10	10	11	8	7	6	4	2	0	0	1	0
41	69	10	17	24	15	14	15	13	12	9	6	10	10	7	7	5	4	2	1	0	0	0
42	57	12	21	26	20	13	13	12	13	6	6	8	11	7	5	5	3	2	1	0	1	0
43	57	10	22	26	20	14	15	13	12	9	6	8	6	4	4	4	3	1	1	0	1	0
44	48	9	21	21	16	10	11	8	6	6	6	8	6	4	4	2	2	1	0	1	0	0
45	35	8	14	21	13	6	7	6	7	4	5	5	3	2	3	2	2	0	0	0	2	0
46	32	8	11	16	9	6	7	6	6	5	5	3	2	2	2	1	1	0	0	0	1	0
47	26	4	11	16	8	6	3	4	4	3	6	4	3	3	2	2	1	0	0	0	1	0
48	27	4	10	10	8	4	6	3	3	3	5	2	2	1	1	1	1	0	0	0	0	0
49	18	4	7	6	3	3	2	3	2	4	3	1	2	0	1	1	1	0	0	0	0	0
50	14	2	2	4	4	3	3	3	2	1	2	1	1	1	1	0	1	0	0	0	0	0
51	11	1	2	2	5	2	2	1	2	1	2	2	1	1	1	1	0	0	0	0	0	0
52	8	3	4	2	2	2	2	1	1	1	1	1	1	1	1	0	0	1	0	0	0	0
53	7	1	1	5	2	1	1	2	1	1	1	1	1	1	0	0	0	0	0	0	0	0
54	4	2	2	2	2	1	1	1	1	0	1	1	1	0	0	0	0	0	0	0	1	0
55	2	2	1	1	2	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
56	2	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
57	1	1	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
58	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	1	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
60	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0

\* Rates per 100,000 reservists in the new entrant/reentrant distribution.

## Enlisted Selected Reserve New Entrant Rates \*

Completed Years Of Total Active Federal Military Service

Age	Under 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21+
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	1333	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	9924	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	10135	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	7048	311	116	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	4171	778	773	467	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	2675	604	1223	1614	434	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	2014	378	1107	1933	1211	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	1620	256	812	1521	1441	228	36	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	1367	196	560	1159	1132	324	170	35	4	0	0	0	0	0	0	0	0	0	0	0	0	0
26	1215	138	413	913	861	280	242	159	35	2	0	0	0	0	0	0	0	0	0	0	0	0
27	1145	99	312	688	647	220	208	214	120	26	1	0	0	0	0	0	0	0	0	0	0	0
28	1003	72	225	523	514	173	180	193	162	88	21	1	0	0	0	0	0	0	0	0	0	0
29	854	70	173	437	410	141	140	147	136	111	74	16	1	0	0	0	0	0	0	0	0	0
30	728	53	135	329	335	119	126	125	112	94	70	37	13	1	0	0	0	0	0	0	0	0
31	613	45	116	277	274	95	98	92	80	70	68	54	30	11	0	0	0	0	0	0	0	0
32	536	40	105	227	228	73	81	77	68	57	52	41	38	22	2	1	0	0	0	0	0	0
33	456	40	90	220	197	58	63	68	46	46	44	34	31	25	6	2	0	0	0	0	0	0
34	406	43	81	193	156	57	58	54	45	45	32	27	25	20	10	7	1	0	0	0	0	0
35	371	46	91	169	133	43	56	46	44	32	30	25	20	19	7	3	2	0	0	0	0	0
36	268	45	75	133	116	40	48	39	32	27	23	22	18	14	7	5	4	2	0	0	0	0
37	243	44	67	123	88	31	42	36	31	24	22	18	13	12	5	6	4	2	1	0	0	0
38	192	49	67	102	74	29	33	31	24	21	15	15	14	11	5	5	2	2	0	1	0	0
39	170	60	75	93	62	23	26	26	21	16	15	13	11	9	5	4	1	1	1	1	1	0
40	159	76	67	94	54	23	22	23	18	16	14	9	9	5	4	3	2	2	0	0	0	0
41	136	79	80	97	61	19	23	20	18	13	12	10	9	5	4	3	2	1	1	0	0	0
42	109	77	79	103	49	17	19	15	18	14	10	7	7	6	3	3	1	2	1	0	0	0
43	99	67	75	116	51	18	17	17	14	14	10	7	7	6	3	4	3	1	1	0	1	0
44	76	42	53	84	40	13	15	11	11	7	5	6	5	5	1	2	2	1	1	0	1	0
45	52	31	32	61	36	8	8	11	7	7	7	5	4	3	3	2	0	0	1	0	0	0
46	45	20	22	40	23	7	8	7	4	5	7	3	5	1	2	1	1	0	1	0	0	0
47	34	11	19	27	20	6	6	8	6	4	4	4	4	1	2	1	1	1	0	0	0	0
48	31	11	13	20	13	7	5	5	8	5	3	3	1	3	1	2	1	0	0	0	0	0
49	20	9	9	13	13	4	3	5	7	4	2	3	2	1	1	1	1	0	0	0	0	0
50	17	6	9	12	6	3	3	4	4	2	1	3	3	1	1	0	0	0	0	0	0	0
51	15	5	5	10	7	4	2	3	3	2	2	2	1	1	1	1	0	0	0	0	0	0
52	11	4	6	9	4	3	2	2	2	2	1	1	1	1	1	0	1	0	0	0	0	0
53	9	4	3	7	4	1	0	2	2	1	1	1	0	2	1	0	0	0	0	0	0	0
54	10	3	5	3	4	1	1	1	1	2	1	1	1	0	0	0	0	0	0	0	0	0
55	6	2	2	3	3	2	1	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0
56	2	2	3	3	2	1	1	1	1	1	1	0	0	0	0	1	1	0	0	0	0	0
57	3	2	2	2	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58	1	2	2	3	1	1	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0
59	1	2	0	1	1	1	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0
60	1	0	1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\* Rates per 100,000 reservists in the new entrant/reentrant distribution.

## APPENDIX I

### RETIREE AND SURVIVOR RATES

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## RETIREE AND SURVIVOR RATES

The military retiree decrement rates are used to predict death, “other” losses from retired pay status, and rates of transfer from temporary disability to permanent disability. The “other” losses consist primarily of returns to active duty and full waiver of retired pay to receive a higher annuity from the Veterans Administration or Civil Service. These rates were developed by age nearest birthday for officers and enlistees separately, and were further subdivided by three types of retirement: nondisability, temporary disability, and permanent disability. For temporary disability retirees, select rates were created for each of the first five years of retirement. After five years, those who are still in the temporary disability status are transferred to a permanent disability status.

The data for the rates were taken from the Defense Manpower Data Center Retiree and Survivor Files as of September 30 for the years 1980 through 1999. These files were created by the Finance Centers of the Military Services (now consolidated under the Defense Finance and Accounting Service), which have responsibility for sending monthly retired pay checks to military retirees. A military retiree can be in “paid status” or “nonpaid status.” Nonpaid status indicates that a retiree has an entitlement to an annuity, but the annuity is fully reduced by offsets. Retirees who terminate from paid status during a fiscal year are on the retiree file at the end of that fiscal year with a termination code indicating the type of termination.

The rate development process began by matching two consecutive fiscal year-end files by social security number. Cases no longer in paid status were categorized by type of loss. In a few cases, there was no follow-up record. Some of the cases represent changed or corrected social security numbers. Where there was a previously retired person with a new social security number, it was subtracted from the cases with no follow-up record. The remaining unknowns were prorated. In addition, persons who discontinued a previous waiver of DoD retired pay were subtracted from other losses. After following the above procedures, crude rates were created using the formulas given on page I-3. These were smoothed using a Whittaker-Henderson type B graduation, or by fitting a polynomial to the crude rates. Where there was reason to suspect valid discontinuities in the underlying rates, those segments were not smoothed. A summary of the years on which various rates are based is given on page I-5.

Retired and survivor rates are shown on pages I-6 through I-17.

## RETIREE AND SURVIVOR DECREMENT RATE FORMULAS

DEATH OF NONDISABILITY RETIREES (by age nearest birthday)

$$\frac{\text{Nondisability deaths}}{\text{[Number at beginning of year} - \frac{1}{2} \text{ (Nondisability deaths} + \text{ other losses)]}}$$

DEATH OF PERMANENT DISABILITY RETIREES (weighted by annuity amount, by age nearest birthday)

$$\frac{\text{Permanent disability deaths}}{\text{[Number at beginning of year} - \frac{1}{2} \text{ (Permanent disability deaths} + \text{ other losses)]}}$$

DEATH OF TEMPORARY DISABILITY RETIREES (by age nearest birthday and years retired)

$$\frac{\text{Temporary disability deaths in category}^1}{\text{[Number at beginning of year} - \frac{1}{2} \text{ (Deaths} + \text{ transfers} + \text{ other losses)]}}$$

RATES OF OTHER LOSSES FROM NONDISABILITY (by age nearest birthday)

$$\frac{\text{Losses other than death}}{\text{Number at beginning of year}}$$

RATES OF OTHER LOSSES FROM PERMANENT DISABILITY (by age nearest birthday and years retired)

$$\frac{\text{Losses other than death}}{\text{Number at beginning of year}}$$

RATES OF OTHER LOSSES FROM TEMPORARY DISABILITY (by age nearest birthday)

$$\frac{\text{Losses other than death or transfers to permanent}}{\text{Number at beginning of year}}$$

RATES OF TRANSFER FROM TEMPORARY TO PERMANENT DISABILITY (by age nearest birthday and years retired)

$$\frac{\text{Transfers to permanent}}{\text{Number at beginning of year}}$$

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<sup>1</sup> Includes deaths of members who were temporarily disabled at the beginning of the year, then transferred to permanent disability, and later died before the end of the year.



RETIREE AND SURVIVOR DECREMENT RATE FORMULAS  
(cont.)

RETIREE DIVORCE (weighted by coverage amount, by age nearest birthday)

Net Retiree Divorces  
Number at beginning of year

DEATH OF SURVIVING SPOUSE (weighted by annuity amount, by age nearest birthday)

Survivor deaths  
Number at beginning of year

REMARRIAGE OF SURVIVING SPOUSE (weighted by annuity amount, by age nearest birthday)

Surviving Spouse Remarriages  
Number at beginning of year

SURVIVING CHILD TERMINATION RATES (weighted by annuity amount, by age nearest birthday)

Child terminations  
Number at beginning of year

SUMMARY OF YEARS ON WHICH RETIREE AND SURVIVOR RATES ARE BASED

Fiscal Years on Which Rates Are Based

	<u>1980</u>	<u>1981</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>
<u>DEATH RATES</u>																				
ND Officers								X	X	X										
ND Enlistees								X	X	X										
PD Officers														X	X	X	X	X	X	X
PD Enlistees														X	X	X	X	X	X	X
TD Officers		X	X	X	X	X	X	X	X	X	X	X	X	X						
TD Enlistees		X	X	X	X	X	X	X	X	X	X	X	X	X						
<u>OTHER LOSS RATES</u>																				
ND Officers	X	X	X	X	X	X	X	X	X	X										
ND Enlistees	X	X	X	X	X	X	X	X	X	X										
PD Officers														X	X	X	X	X	X	X
PD Enlistees														X	X	X	X	X	X	X
TD Officers		X	X	X	X	X	X	X	X	X	X	X	X	X						
TD Enlistees		X	X	X	X	X	X	X	X	X	X	X	X	X						
<u>TRANSFER RATES FROM TD TO PD</u>																				
Officers		X	X	X	X	X	X	X	X	X	X	X	X	X						
Enlistees		X	X	X	X	X	X	X	X	X	X	X	X	X						
<u>RETIREE DIVORCE</u>																				
																	X	X	X	
<u>SURVIVOR RATES</u>																				
Remarriage															X	X	X			
Child Termination														X	X	X	X			
Survivor Death															X	X	X			

ND = Nondisabled; PD = Permanently Disabled; TD = Temporarily Disabled

**RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)**

**OFFICERS**

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
16	0.00000	0.00863	0.04672	0.02778	0.02168	0.01407	0.04145
17	0.00000	0.00949	0.04546	0.02704	0.02110	0.01369	0.04033
18	0.00000	0.01014	0.04423	0.02630	0.02053	0.01332	0.03924
19	0.00000	0.01067	0.04304	0.02559	0.01997	0.01296	0.03818
20	0.00000	0.01117	0.04185	0.02489	0.01942	0.01260	0.03713
21	0.00000	0.01168	0.04070	0.02420	0.01889	0.01225	0.03610
22	0.00000	0.01225	0.03957	0.02353	0.01836	0.01191	0.03510
23	0.00000	0.01297	0.03846	0.02287	0.01785	0.01158	0.03412
24	0.00000	0.01375	0.03738	0.02223	0.01735	0.01126	0.03316
25	0.00000	0.01457	0.03633	0.02160	0.01686	0.01094	0.03222
26	0.00000	0.01535	0.03530	0.02099	0.01638	0.01063	0.03131
27	0.00000	0.01602	0.03429	0.02039	0.01591	0.01033	0.03042
28	0.00000	0.01697	0.03331	0.01981	0.01546	0.01003	0.02955
29	0.00000	0.01761	0.03237	0.01925	0.01502	0.00975	0.02872
30	0.00000	0.01794	0.03145	0.01870	0.01459	0.00947	0.02789
31	0.00000	0.01795	0.03057	0.01818	0.01419	0.00920	0.02712
32	0.00000	0.01766	0.02975	0.01769	0.01381	0.00896	0.02639
33	0.00000	0.01709	0.02900	0.01725	0.01346	0.00873	0.02573
34	0.00000	0.01631	0.03078	0.01830	0.01428	0.00927	0.02730
35	0.00065	0.01536	0.03255	0.01936	0.01511	0.00980	0.02888
36	0.00069	0.01431	0.03433	0.02042	0.01593	0.01034	0.03045
37	0.00073	0.01321	0.03612	0.02148	0.01676	0.01088	0.03204
38	0.00079	0.01210	0.03793	0.02256	0.01760	0.01142	0.03365
39	0.00085	0.01102	0.03974	0.02363	0.01844	0.01197	0.03525
40	0.00093	0.00998	0.04154	0.02471	0.01928	0.01251	0.03685
41	0.00102	0.00901	0.04333	0.02577	0.02011	0.01305	0.03843
42	0.00111	0.00816	0.04507	0.02680	0.02092	0.01357	0.03998
43	0.00129	0.00747	0.04678	0.02782	0.02171	0.01408	0.04149
44	0.00148	0.00699	0.04844	0.02880	0.02248	0.01458	0.04297
45	0.00167	0.00671	0.05008	0.02978	0.02324	0.01508	0.04442
46	0.00186	0.00665	0.05173	0.03076	0.02400	0.01557	0.04588
47	0.00206	0.00676	0.05339	0.03175	0.02477	0.01607	0.04736
48	0.00227	0.00735	0.05505	0.03274	0.02555	0.01658	0.04884
49	0.00249	0.00790	0.05673	0.03374	0.02633	0.01708	0.05032
50	0.00274	0.00841	0.05754	0.03422	0.02670	0.01733	0.05104
51	0.00299	0.00889	0.05836	0.03470	0.02708	0.01757	0.05177
52	0.00327	0.00934	0.05917	0.03519	0.02746	0.01782	0.05249
53	0.00358	0.00978	0.05996	0.03566	0.02782	0.01805	0.05319
54	0.00391	0.01022	0.06075	0.03612	0.02819	0.01829	0.05389
55	0.00429	0.01070	0.06152	0.03659	0.02855	0.01852	0.05457
56	0.00470	0.01123	0.06231	0.03705	0.02892	0.01876	0.05527
57	0.00513	0.01185	0.06311	0.03753	0.02929	0.01900	0.05598
58	0.00563	0.01258	0.06394	0.03802	0.02967	0.01925	0.05672
59	0.00620	0.01342	0.06480	0.03854	0.03007	0.01951	0.05748
60	0.00686	0.01440	0.06572	0.03908	0.03050	0.01979	0.05829
61	0.00767	0.01551	0.06671	0.03967	0.03096	0.02009	0.05917

**RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)**

**OFFICERS (continued)**

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
62	0.00865	0.01676	0.06779	0.04031	0.03146	0.02041	0.06013
63	0.00979	0.01814	0.06900	0.04103	0.03202	0.02077	0.06120
64	0.01112	0.01965	0.07034	0.04183	0.03264	0.02118	0.06240
65	0.01261	0.02129	0.07187	0.04274	0.03335	0.02164	0.06375
66	0.01416	0.02306					
67	0.01572	0.02498					
68	0.01721	0.02704					
69	0.01873	0.02922					
70	0.02044	0.03153					
71	0.02246	0.03394					
72	0.02471	0.03647					
73	0.02733	0.03915					
74	0.03037	0.04201					
75	0.03384	0.04508					
76	0.03789	0.04840					
77	0.04249	0.05201					
78	0.04774	0.05601					
79	0.05378	0.06047					
80	0.06051	0.06554					
81	0.06822	0.07137					
82	0.07686	0.07816					
83	0.08676	0.08609					
84	0.09799	0.09531					
85	0.11025	0.10596					
86	0.12417	0.11811					
87	0.13870	0.13178					
88	0.15496	0.14693					
89	0.17212	0.16353					
90	0.19026	0.18152					
91	0.20922	0.20084					
92	0.22936	0.22143					
93	0.25043	0.24325					
94	0.27245	0.26624					
95	0.29505	0.29037					
96	0.31813	0.31563					
97	0.34159	0.34200					
98	0.36530	0.36674					
99	0.38913	0.39132					
100	0.40259	0.41628					
101	0.41693	0.44222					
102	0.43224	0.46978					
103	0.44858	0.50119					
104	0.46602	0.53628					
105	0.48464	0.57196					
106	0.50450	0.60477					
107	0.52577	0.63090					
108	0.54845	0.64926					
109	0.57271	0.66192					
110	1.00000	1.00000					

**RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)**

**ENLISTED**

Age	Non-disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
16	0.00000	0.00709	0.01619	0.01011	0.01044	0.00835	0.01115
17	0.00000	0.00780	0.01492	0.00932	0.00962	0.00770	0.01028
18	0.00000	0.00834	0.01368	0.00855	0.00882	0.00706	0.00943
19	0.00000	0.00878	0.01247	0.00779	0.00804	0.00643	0.00859
20	0.00000	0.00918	0.01197	0.00748	0.00772	0.00618	0.00825
21	0.00000	0.00960	0.01145	0.00715	0.00738	0.00591	0.00789
22	0.00000	0.01007	0.01106	0.00691	0.00713	0.00571	0.00762
23	0.00000	0.01066	0.01082	0.00676	0.00698	0.00558	0.00745
24	0.00000	0.01130	0.01084	0.00677	0.00699	0.00559	0.00747
25	0.00000	0.01198	0.01117	0.00698	0.00720	0.00577	0.00770
26	0.00000	0.01262	0.01174	0.00733	0.00757	0.00606	0.00809
27	0.00000	0.01318	0.01254	0.00783	0.00808	0.00647	0.00864
28	0.00000	0.01396	0.01352	0.00844	0.00872	0.00698	0.00931
29	0.00000	0.01448	0.01450	0.00906	0.00935	0.00748	0.00999
30	0.00000	0.01475	0.01538	0.00961	0.00992	0.00794	0.01060
31	0.00000	0.01476	0.01615	0.01009	0.01041	0.00833	0.01112
32	0.00000	0.01452	0.01684	0.01052	0.01086	0.00869	0.01161
33	0.00000	0.01405	0.01751	0.01094	0.01129	0.00904	0.01207
34	0.00000	0.01341	0.01820	0.01137	0.01173	0.00939	0.01254
35	0.00138	0.01263	0.01893	0.01182	0.01220	0.00977	0.01304
36	0.00146	0.01176	0.01975	0.01233	0.01273	0.01019	0.01360
37	0.00160	0.01086	0.02063	0.01289	0.01330	0.01065	0.01421
38	0.00172	0.00995	0.02154	0.01345	0.01389	0.01112	0.01484
39	0.00186	0.00906	0.02235	0.01396	0.01441	0.01154	0.01540
40	0.00197	0.00821	0.02316	0.01447	0.01493	0.01195	0.01595
41	0.00209	0.00741	0.02411	0.01506	0.01554	0.01244	0.01661
42	0.00225	0.00671	0.02528	0.01579	0.01630	0.01305	0.01742
43	0.00242	0.00614	0.02655	0.01658	0.01712	0.01370	0.01829
44	0.00261	0.00574	0.02768	0.01729	0.01784	0.01428	0.01907
45	0.00283	0.00552	0.02863	0.01788	0.01846	0.01478	0.01972
46	0.00309	0.00546	0.02948	0.01842	0.01901	0.01522	0.02031
47	0.00338	0.00556	0.03036	0.01897	0.01958	0.01567	0.02092
48	0.00373	0.00580	0.03131	0.01956	0.02019	0.01616	0.02157
49	0.00411	0.00619	0.03234	0.02020	0.02085	0.01669	0.02228
50	0.00456	0.00670	0.03341	0.02087	0.02154	0.01724	0.02302
51	0.00506	0.00735	0.03518	0.02198	0.02268	0.01816	0.02424
52	0.00560	0.00814	0.03697	0.02309	0.02384	0.01908	0.02547
53	0.00618	0.00908	0.03870	0.02418	0.02495	0.01998	0.02667
54	0.00680	0.01017	0.04035	0.02520	0.02601	0.02082	0.02780
55	0.00750	0.01139	0.04192	0.02619	0.02703	0.02164	0.02888
56	0.00830	0.01275	0.04351	0.02718	0.02805	0.02246	0.02998
57	0.00924	0.01421	0.04519	0.02823	0.02914	0.02333	0.03114
58	0.01033	0.01573	0.04709	0.02941	0.03036	0.02430	0.03244
59	0.01156	0.01731	0.04925	0.03076	0.03175	0.02542	0.03393
60	0.01289	0.01893	0.05166	0.03227	0.03331	0.02666	0.03559
61	0.01430	0.02058	0.05434	0.03395	0.03504	0.02805	0.03744

**RETIRED DEATH RATES (BY AGE OF NEAREST BIRTHDAY)**

**ENLISTED (continued)**

Age	Non- disability	Permanent Disability	Temporary Disability				
			Year of Retirement				
			One	Two	Three	Four	Five
62	0.01585	0.02222	0.05726	0.03577	0.03692	0.02955	0.03945
63	0.01757	0.02382	0.06033	0.03769	0.03890	0.03114	0.04157
64	0.01941	0.02544	0.06347	0.03965	0.04092	0.03276	0.04373
65	0.02134	0.02718	0.06662	0.04162	0.04295	0.03438	0.04590
66	0.02330	0.02923					
67	0.02518	0.03172					
68	0.02697	0.03466					
69	0.02880	0.03790					
70	0.03088	0.04125					
71	0.03345	0.04459					
72	0.03640	0.04787					
73	0.03983	0.05116					
74	0.04378	0.05456					
75	0.04826	0.05833					
76	0.05323	0.06270					
77	0.05874	0.06784					
78	0.06475	0.07379					
79	0.07145	0.08050					
80	0.07862	0.08789					
81	0.08613	0.09580					
82	0.09482	0.10411					
83	0.10423	0.11276					
84	0.11441	0.12174					
85	0.12533	0.13112					
86	0.13697	0.14098					
87	0.14926	0.15139					
88	0.16234	0.16238					
89	0.17620	0.17395					
90	0.19093	0.18608					
91	0.20657	0.19873					
92	0.22319	0.21187					
93	0.24084	0.22551					
94	0.25956	0.24777					
95	0.27905	0.27129					
96	0.29924	0.29533					
97	0.32007	0.31909					
98	0.34145	0.34217					
99	0.35711	0.36510					
100	0.37360	0.38839					
101	0.39098	0.41259					
102	0.40932	0.43830					
103	0.42871	0.46760					
104	0.44917	0.50034					
105	0.47081	0.53364					
106	0.49372	0.56424					
107	0.51797	0.58863					
108	0.54366	0.60576					
109	0.57092	0.61757					
110	1.00000	1.00000					

## RATES OF NONDEATH LOSSES FROM NONDISABILITY

(Age Nearest Birthday at Beginning of Year)

<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>
16	0.00000	0.00000	56	0.00195	0.00871
17	0.00000	0.00000	57	0.00247	0.00887
18	0.00000	0.00000	58	0.00247	0.00909
19	0.00000	0.00000	59	0.00277	0.01052
20	0.00000	0.00000	60	0.00248	0.01031
21	0.00000	0.00000	61	0.00096	0.00830
22	0.00000	0.00000	62	0.00064	0.00809
23	0.00000	0.00000	63	0.00089	0.00591
24	0.00000	0.00000	64	0.00068	0.00571
25	0.00000	0.00000	65	0.00085	0.00556
26	0.00000	0.00000	66	0.00063	0.00442
27	0.00000	0.00000	67	0.00067	0.00402
28	0.00000	0.00000	68	0.00072	0.00370
29	0.00000	0.00000	69	0.00075	0.00345
30	0.00000	0.00000	70	0.00076	0.00328
31	0.00000	0.00000	71	0.00076	0.00318
32	0.00000	0.00000	72	0.00076	0.00315
33	0.00000	0.00000	73	0.00082	0.00320
34	0.00000	0.00000	74	0.00087	0.00332
35	0.00233	0.00537	75	0.00088	0.00350
36	0.00197	0.00464	76	0.00091	0.00375
37	0.00164	0.00391	77	0.00102	0.00406
38	0.00135	0.00321	78	0.00122	0.00444
39	0.00110	0.00259	79	0.00154	0.00489
40	0.00088	0.00212	80	0.00202	0.00541
41	0.00068	0.00183	81	0.00248	0.00599
42	0.00052	0.00166	82	0.00285	0.00664
43	0.00039	0.00154	83	0.00314	0.00736
44	0.00028	0.00144	84	0.00333	0.00815
45	0.00020	0.00135	85	0.00346	0.00901
46	0.00015	0.00129	86	0.00359	0.00994
47	0.00012	0.00130	87	0.00380	0.01094
48	0.00012	0.00140	88	0.00414	0.01202
49	0.00013	0.00150	89	0.00456	0.01316
50	0.00018	0.00159	90	0.00502	0.01438
51	0.00024	0.00172	91	0.00550	0.01567
52	0.00033	0.00188	92	0.00596	0.01703
53	0.00043	0.00199	93	0.00645	0.01847
54	0.00073	0.00555	94	0.00698	0.01998
55	0.00210	0.01267	95	0.00698	0.02156

RATES OF NONDEATH, NONTRANSFER LOSSES FROM TEMPORARY DISABILITY

(Age Nearest Birthday at Beginning of Year)

Age	OFFICERS					ENLISTED				
	Year of Retirement					Year of Retirement				
	One	Two	Three	Four	Five	One	Two	Three	Four	Five
16	0.17685	0.24762	0.24414	0.27861	0.45470	0.26948	0.54695	0.41602	0.38115	0.74683
17	0.16986	0.23916	0.23678	0.26963	0.44499	0.26024	0.50781	0.39748	0.37111	0.73306
18	0.16287	0.23069	0.22942	0.26065	0.43529	0.25073	0.46867	0.37895	0.36084	0.71929
19	0.15589	0.22223	0.22206	0.25167	0.42559	0.24094	0.42954	0.36041	0.35034	0.70553
20	0.14890	0.21376	0.21470	0.24269	0.41588	0.23088	0.39040	0.34187	0.33963	0.69176
21	0.14191	0.20529	0.20733	0.23371	0.40618	0.22054	0.35338	0.32334	0.32868	0.67799
22	0.13493	0.19683	0.19997	0.22473	0.39648	0.21059	0.31889	0.30480	0.31752	0.66422
23	0.12794	0.18836	0.19261	0.21575	0.38677	0.20151	0.28730	0.28755	0.30613	0.65045
24	0.12095	0.17990	0.18525	0.20676	0.37707	0.19207	0.26532	0.27261	0.29452	0.63668
25	0.11396	0.17143	0.17789	0.19778	0.36737	0.18273	0.24786	0.25984	0.28259	0.61826
26	0.10705	0.16297	0.17052	0.18880	0.35766	0.17385	0.23416	0.24945	0.27071	0.60400
27	0.10029	0.15513	0.16316	0.17982	0.34796	0.16628	0.22180	0.23985	0.25989	0.58856
28	0.09377	0.14772	0.15579	0.17086	0.33826	0.16023	0.21635	0.23000	0.25012	0.56467
29	0.08736	0.14087	0.14854	0.16183	0.32855	0.15555	0.21472	0.22078	0.24129	0.54153
30	0.08123	0.13563	0.14149	0.15285	0.31885	0.15190	0.21052	0.21236	0.23335	0.51736
31	0.07550	0.13014	0.13457	0.14394	0.30915	0.14966	0.20232	0.20494	0.22573	0.50401
32	0.07022	0.12624	0.12781	0.13524	0.29944	0.14803	0.19060	0.19788	0.21746	0.49662
33	0.06545	0.12119	0.12125	0.12705	0.28973	0.14619	0.18257	0.19069	0.20826	0.48510
34	0.06118	0.11525	0.11478	0.11955	0.28000	0.14372	0.17893	0.18286	0.19806	0.47263
35	0.05740	0.10725	0.10824	0.11273	0.27026	0.14014	0.17631	0.17472	0.18706	0.46077
36	0.05384	0.09823	0.10154	0.10652	0.26052	0.13527	0.17017	0.16516	0.17542	0.44969
37	0.05034	0.08791	0.09462	0.10066	0.25078	0.12900	0.15587	0.15234	0.16310	0.43776
38	0.04686	0.07729	0.08743	0.09483	0.24107	0.12116	0.13361	0.13601	0.15006	0.41957
39	0.04337	0.06728	0.07999	0.08905	0.23139	0.11239	0.10614	0.11691	0.13615	0.39268
40	0.03981	0.05859	0.07236	0.08326	0.22174	0.10376	0.07857	0.09743	0.12185	0.35601
41	0.03621	0.05196	0.06463	0.07734	0.21215	0.09619	0.05962	0.08018	0.10773	0.31194
42	0.03262	0.04618	0.05699	0.07126	0.20263	0.08980	0.04921	0.06653	0.09453	0.26349
43	0.02906	0.04180	0.04967	0.06504	0.19320	0.08440	0.04440	0.05613	0.08259	0.22141
44	0.02552	0.03717	0.04279	0.05877	0.18385	0.07940	0.04269	0.04840	0.07197	0.19438
45	0.02207	0.03168	0.03648	0.05246	0.17461	0.07472	0.04273	0.04274	0.06267	0.18270
46	0.01886	0.02586	0.03079	0.04619	0.16547	0.07040	0.04279	0.03861	0.05434	0.18079
47	0.01601	0.01965	0.02582	0.04015	0.15643	0.06640	0.04191	0.03597	0.04697	0.17593
48	0.01359	0.01381	0.02154	0.03451	0.14749	0.06261	0.03998	0.03460	0.04059	0.16712
49	0.01164	0.00899	0.01794	0.02941	0.13863	0.05916	0.03771	0.03430	0.03517	0.15520
50	0.01017	0.00546	0.01495	0.02498	0.12986	0.05637	0.03679	0.03451	0.03072	0.14401
51	0.00914	0.00298	0.01251	0.02128	0.12118	0.05430	0.03716	0.03496	0.02715	0.13607
52	0.00846	0.00176	0.01051	0.01826	0.11257	0.05276	0.03903	0.03563	0.02441	0.13277
53	0.00807	0.00131	0.00886	0.01583	0.10402	0.05154	0.04192	0.03636	0.02241	0.13415
54	0.00787	0.00143	0.00750	0.01390	0.09553	0.05062	0.04504	0.03692	0.02106	0.13819
55	0.00778	0.00165	0.00637	0.01238	0.08710	0.04994	0.04717	0.03719	0.02029	0.14332
56	0.00777	0.00191	0.00542	0.01129	0.07870	0.04932	0.04817	0.03722	0.02000	0.14775
57	0.00781	0.00202	0.00464	0.01060	0.07036	0.04865	0.04799	0.03706	0.02006	0.15127
58	0.00788	0.00192	0.00400	0.01026	0.06204	0.04784	0.04682	0.03693	0.02035	0.15270
59	0.00793	0.00164	0.00351	0.01023	0.05375	0.04695	0.04485	0.03697	0.02082	0.15087
60	0.00796	0.00115	0.00312	0.01042	0.04548	0.04602	0.04221	0.03724	0.02140	0.14544
61	0.00797	0.00048	0.00282	0.01074	0.03722	0.04508	0.03875	0.03773	0.02206	0.13806
62	0.00797	0.00000	0.00257	0.01109	0.02897	0.04417	0.03485	0.03838	0.02280	0.13012
63	0.00798	0.00000	0.00235	0.01143	0.02073	0.04328	0.03077	0.03916	0.02360	0.12217
64	0.00798	0.00000	0.00213	0.01176	0.01249	0.04236	0.02663	0.04001	0.02444	0.11423
65	0.00798	0.00000	0.00191	0.01210	0.00425	0.04145	0.02246	0.04086	0.02527	0.10629



**TRANSFER RATES FROM TEMPORARY DISABILITY TO PERMANENT DISABILITY**

(Age Nearest Birthday at Beginning of Year)

Age	OFFICERS				ENLISTED			
	Year of Retirement				Year of Retirement			
	One	Two	Three	Four	One	Two	Three	Four
16	0.05312	0.06331	0.12999	0.10350	0.00128	0.03993	0.02009	0.00000
17	0.05548	0.07171	0.13345	0.11410	0.00696	0.05348	0.02912	0.00210
18	0.05784	0.08011	0.13692	0.12470	0.01264	0.06703	0.03815	0.02277
19	0.06019	0.08850	0.14039	0.13530	0.01832	0.08058	0.04718	0.04343
20	0.06255	0.09690	0.14385	0.14589	0.02401	0.09413	0.05622	0.06410
21	0.06491	0.10529	0.14732	0.15649	0.02969	0.10768	0.06525	0.08476
22	0.06727	0.11369	0.15079	0.16709	0.03532	0.12018	0.07428	0.10543
23	0.06963	0.12208	0.15426	0.17769	0.04083	0.13061	0.08322	0.12609
24	0.07198	0.13048	0.15772	0.18828	0.04620	0.13826	0.09194	0.14667
25	0.07434	0.13888	0.16119	0.19888	0.05141	0.14402	0.10052	0.16643
26	0.07670	0.14738	0.16466	0.20948	0.05650	0.14876	0.10888	0.18391
27	0.07906	0.15598	0.16813	0.22008	0.06149	0.15329	0.11672	0.19669
28	0.08141	0.16468	0.17160	0.23067	0.06637	0.15810	0.12419	0.20594
29	0.08377	0.17348	0.17522	0.24125	0.07115	0.16347	0.13159	0.21303
30	0.08613	0.18240	0.17932	0.25182	0.07579	0.16965	0.13908	0.21812
31	0.08849	0.19146	0.18417	0.26234	0.08028	0.17622	0.14672	0.22214
32	0.09085	0.20070	0.19003	0.27281	0.08459	0.18383	0.15489	0.22711
33	0.09320	0.21014	0.19718	0.28319	0.08871	0.19275	0.16369	0.23397
34	0.09556	0.21980	0.20588	0.29342	0.09260	0.20347	0.17337	0.24277
35	0.09792	0.22967	0.21604	0.30347	0.09623	0.21671	0.18391	0.25257
36	0.10028	0.23968	0.22720	0.31328	0.09957	0.23247	0.19513	0.26298
37	0.10263	0.24976	0.23875	0.32281	0.10259	0.25095	0.20689	0.27416
38	0.10499	0.25977	0.25012	0.33197	0.10525	0.27147	0.21907	0.28558
39	0.10735	0.26955	0.26096	0.34068	0.10760	0.29231	0.23154	0.29749
40	0.10971	0.27893	0.27091	0.34888	0.10970	0.31207	0.24390	0.30924
41	0.11207	0.28774	0.28005	0.35652	0.11158	0.32849	0.25571	0.32025
42	0.11442	0.29582	0.28822	0.36353	0.11324	0.34074	0.26655	0.32970
43	0.11678	0.30305	0.29517	0.36985	0.11471	0.34896	0.27607	0.33742
44	0.11914	0.30933	0.30066	0.37545	0.11599	0.35342	0.28409	0.34340
45	0.12150	0.31462	0.30484	0.38036	0.11708	0.35550	0.29025	0.34822
46	0.12385	0.31888	0.30771	0.38465	0.11797	0.35648	0.29459	0.35309
47	0.12621	0.32211	0.30905	0.38835	0.11866	0.35725	0.29715	0.35825
48	0.12857	0.32436	0.30885	0.39156	0.11913	0.35822	0.29798	0.36367
49	0.13093	0.32567	0.30723	0.39436	0.11935	0.35904	0.29709	0.36986
50	0.13329	0.32614	0.30470	0.39678	0.11935	0.35954	0.29468	0.37641
51	0.13564	0.32585	0.30154	0.39884	0.11912	0.35964	0.29092	0.38268
52	0.13800	0.32491	0.29815	0.40060	0.11870	0.35918	0.28605	0.38817
53	0.14036	0.32340	0.29514	0.40209	0.11814	0.35769	0.28019	0.39222
54	0.14272	0.32143	0.29302	0.40337	0.11748	0.35480	0.27350	0.39502
55	0.14507	0.31909	0.29222	0.40447	0.11674	0.35018	0.26612	0.39704
56	0.14743	0.31646	0.29306	0.40545	0.11593	0.34390	0.25819	0.39888
57	0.14979	0.31363	0.29557	0.40636	0.11508	0.33639	0.24986	0.40058
58	0.15215	0.31066	0.29948	0.40721	0.11419	0.32805	0.24121	0.40200
59	0.15450	0.30762	0.30461	0.40804	0.11328	0.31923	0.23227	0.40302
60	0.15686	0.30454	0.31057	0.40887	0.11235	0.31021	0.22316	0.40363
61	0.15922	0.30146	0.31702	0.40971	0.11140	0.30122	0.21394	0.40379
62	0.16158	0.29840	0.32379	0.41056	0.11044	0.29222	0.20468	0.40342
63	0.16394	0.29536	0.33077	0.41140	0.10947	0.28316	0.19538	0.40256
64	0.16629	0.29234	0.33782	0.41223	0.10850	0.27402	0.18607	0.40139
65	0.16865	0.28932	0.34490	0.41306	0.10752	0.26484	0.17675	0.40014

**RATES OF NONDEATH LOSSES FROM PERMANENT DISABILITY**

(Age Nearest Birthday at Beginning of Year)

<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Age</u>	<u>Officer</u>	<u>Enlisted</u>
16	0.03892	0.38092	54	0.00350	0.01748
17	0.03777	0.35441	55	0.00321	0.01727
18	0.03661	0.32794	56	0.00295	0.01711
19	0.03546	0.30151	57	0.00272	0.01677
20	0.03431	0.27511	58	0.00252	0.01695
21	0.03316	0.24875	59	0.00234	0.01761
22	0.03200	0.22242	60	0.00218	0.01691
23	0.03085	0.19613	61	0.00205	0.01626
24	0.02970	0.16988	62	0.00193	0.01515
25	0.02855	0.14474	63	0.00183	0.01383
26	0.02740	0.12174	64	0.00174	0.01312
27	0.02625	0.10195	65	0.00166	0.01228
28	0.02510	0.08580	66	0.00160	0.01198
29	0.02395	0.07343	67	0.00155	0.01160
30	0.02281	0.06445	68	0.00151	0.01079
31	0.02166	0.05773	69	0.00147	0.01068
32	0.02053	0.05260	70	0.00144	0.01106
33	0.01940	0.04839	71	0.00142	0.01061
34	0.01829	0.04451	72	0.00141	0.01043
35	0.01720	0.04151	73	0.00140	0.00940
36	0.01613	0.03951	74	0.00139	0.00865
37	0.01509	0.03795	75	0.00138	0.00817
38	0.01408	0.03608	76	0.00138	0.00838
39	0.01310	0.03407	77	0.00138	0.00859
40	0.01215	0.03120	78	0.00138	0.00852
41	0.01124	0.02831	79	0.00138	0.00832
42	0.01037	0.02562	80	0.00138	0.00772
43	0.00955	0.02376	81	0.00138	0.00781
44	0.00877	0.02201	82	0.00138	0.00793
45	0.00803	0.02021	83	0.00138	0.00824
46	0.00734	0.01884	84	0.00138	0.00844
47	0.00670	0.01862	85	0.00138	0.00836
48	0.00611	0.01871	86	0.00137	0.00794
49	0.00556	0.01837	87	0.00137	0.00723
50	0.00507	0.01839	88	0.00136	0.00619
51	0.00461	0.01833	89	0.00136	0.00509
52	0.00420	0.01788	90	0.00135	0.00391
53	0.00383	0.01760			

## RATES OF DIVORCE

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
16	0.0600	47	0.0131	78	0.0000
17	0.0585	48	0.0112	79	0.0000
18	0.0571	49	0.0098	80	0.0000
19	0.0556	50	0.0082	81	0.0000
20	0.0541	51	0.0069	82	0.0000
21	0.0526	52	0.0057		
22	0.0511	53	0.0047		
23	0.0493	54	0.0039		
24	0.0471	55	0.0032		
25	0.0447	56	0.0027		
26	0.0421	57	0.0019		
27	0.0396	58	0.0012		
28	0.0375	59	0.0009		
29	0.0362	60	0.0014		
30	0.0360	61	0.0000		
31	0.0368	62	0.0000		
32	0.0384	63	0.0000		
33	0.0406	64	0.0000		
34	0.0428	65	0.0000		
35	0.0444	66	0.0000		
36	0.0450	67	0.0000		
37	0.0448	68	0.0000		
38	0.0437	69	0.0000		
39	0.0411	70	0.0000		
40	0.0363	71	0.0000		
41	0.0309	72	0.0000		
42	0.0289	73	0.0000		
43	0.0245	74	0.0000		
44	0.0207	75	0.0000		
45	0.0176	76	0.0000		
46	0.0151	77	0.0000		

## RATES OF REMARRIAGE

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
16	0.0436	38	0.0192
17	0.0426	39	0.0185
18	0.0417	40	0.0175
19	0.0407	41	0.0162
20	0.0398	42	0.0146
21	0.0382	43	0.0129
22	0.0367	44	0.0114
23	0.0352	45	0.0103
24	0.0338	46	0.0095
25	0.0324	47	0.0088
26	0.0301	48	0.0082
27	0.0279	49	0.0076
28	0.0259	50	0.0071
29	0.0240	51	0.0064
30	0.0223	52	0.0056
31	0.0219	53	0.0043
32	0.0216	54	0.0017
33	0.0211	55	0.0005
34	0.0207	56	0.0000
35	0.0204	57	0.0000
36	0.0200	58	0.0000
37	0.0196	59	0.0000

## CHILD TERMINATION RATES

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>
0	0.00
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00
6	0.00
7	0.00
8	0.00
9	0.00
10	0.00
11	0.00
12	0.00
13	0.00
14	0.00
15	0.00
16	0.00
17	0.17
18	0.13
19	0.14
20	0.15
21	0.61
22	0.67
23	0.01

**SURVIVOR DEATH RATES**

(Age Nearest Birthday)

<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>	<u>Age</u>	<u>Rate</u>
0	0.0060	51	0.0027	102	0.3515
1	0.0004	52	0.0031	103	0.3757
2	0.0003	53	0.0040	104	0.4020
3	0.0003	54	0.0047	105	0.4280
4	0.0002	55	0.0053	106	0.4512
5	0.0002	56	0.0057	107	0.4706
6	0.0002	57	0.0061	108	0.4855
7	0.0001	58	0.0064	109	0.4972
8	0.0001	59	0.0067		
9	0.0001	60	0.0072		
10	0.0001	61	0.0078		
11	0.0001	62	0.0087		
12	0.0001	63	0.0097		
13	0.0002	64	0.0110		
14	0.0002	65	0.0123		
15	0.0003	66	0.0137		
16	0.0003	67	0.0149		
17	0.0004	68	0.0160		
18	0.0004	69	0.0169		
19	0.0004	70	0.0177		
20	0.0004	71	0.0185		
21	0.0004	72	0.0195		
22	0.0004	73	0.0208		
23	0.0004	74	0.0224		
24	0.0004	75	0.0243		
25	0.0004	76	0.0266		
26	0.0004	77	0.0293		
27	0.0005	78	0.0324		
28	0.0005	79	0.0361		
29	0.0005	80	0.0403		
30	0.0006	81	0.0450		
31	0.0006	82	0.0502		
32	0.0007	83	0.0557		
33	0.0007	84	0.0616		
34	0.0007	85	0.0679		
35	0.0008	86	0.0747		
36	0.0009	87	0.0821		
37	0.0009	88	0.0903		
38	0.0009	89	0.0995		
39	0.0010	90	0.1099		
40	0.0010	91	0.1216		
41	0.0011	92	0.1350		
42	0.0012	93	0.1502		
43	0.0013	94	0.1674		
44	0.0014	95	0.1866		
45	0.0016	96	0.2079		
46	0.0017	97	0.2314		
47	0.0019	98	0.2570		
48	0.0021	99	0.2845		
49	0.0023	100	0.3064		
50	0.0025	101	0.3288		

APPENDIX J

MORTALITY IMPROVEMENT FACTORS

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Active Duty Officer.....	J-3
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Nondisabled Retired Enlisted.....	J-7
Survivor.....	J-9

## MORTALITY IMPROVEMENT FACTORS

Mortality rates in the valuation for active (non-reserve) military, nondisabled retirees, and survivor beneficiaries are decreased (or “improved”) over time in order to reflect the long-term trend towards such declines. No mortality improvement is assumed for disabled retirees because their mortality patterns are too easily affected by economic variables, periods of war, and by the policies of administering the disability retirement program (i.e., periods of relative laxity or stringency in determining an individual’s degree of disability or recovery from disability).

Mortality improvement factors were formed using data from the Social Security Administration. The Office of the Actuary, Social Security Administration, projects mortality rates by age and sex for each quinquennial year of their valuation projection period through the year 2080. We used the rates which underlie the 2000 Trustee’s Report, Alternative II (II-A and II-B had identical mortality assumptions).

To construct military mortality improvement factors, the corresponding combined sex tables were constructed. Mortality improvement factors were then computed by taking the fifth root of the ratio between (1) the combined sex mortality rate for a given age and year and (2) combined sex mortality rate for the same age five years earlier. Five sets of values for the percent of females were used: active duty officers, active duty enlistees, nondisabled retired officers, nondisabled retired enlistees, and survivors. For each set, the percent of females was both age- and year-specific, with the initial percent taken from the September 1999 military files. There are consequently five sets of mortality improvement factors used in the valuation of the military retirement system.

Even though the mortality improvement factors are based on social security data, they should apply reasonably well to the military retirement system. While the average military person may be somewhat healthier than the average person in the social security population, the mortality improvement factors are in the form of percentages. If the mortality for relatively healthy military lives is already small, then the improvement in terms of fewer deaths is slight, even though the percentage improvement is the same as for relatively less healthy lives.



**Active Officer Mortality Improvement Rates**

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.96007	1.04534	0.96223	0.99444	0.98901	0.98908	0.99008	0.99127	0.99191	0.99199	0.99210	0.99204	0.99228	0.99207	0.99205	0.99246	0.99184	0.99264	0.99223	0.99205
17	0.95817	1.04580	0.96158	0.99454	0.98899	0.98913	0.99028	0.99118	0.99214	0.99211	0.99200	0.99222	0.99246	0.99208	0.99237	0.99243	0.99223	0.99240	0.99250	0.99221
18	0.95678	1.04242	0.96201	0.99452	0.98829	0.98850	0.99001	0.99113	0.99223	0.99191	0.99205	0.99222	0.99257	0.99205	0.99252	0.99241	0.99193	0.99258	0.99247	0.99228
19	0.95580	1.03656	0.96346	0.99428	0.98730	0.98750	0.98918	0.99108	0.99206	0.99192	0.99210	0.99219	0.99230	0.99214	0.99235	0.99246	0.99207	0.99261	0.99223	0.99239
20	0.95474	1.02270	0.97264	0.99404	0.98618	0.98658	0.98837	0.99082	0.99203	0.99200	0.99179	0.99231	0.99214	0.99225	0.99216	0.99246	0.99208	0.99243	0.99230	0.99263
21	0.95439	0.99652	0.99555	0.99389	0.98523	0.98585	0.98779	0.99083	0.99176	0.99199	0.99196	0.99214	0.99209	0.99210	0.99228	0.99228	0.99235	0.99230	0.99231	0.99262
22	0.95504	1.00351	0.98723	0.99355	0.98474	0.98538	0.98755	0.99064	0.99158	0.99214	0.99193	0.99229	0.99185	0.99204	0.99242	0.99220	0.99226	0.99243	0.99221	0.99250
23	0.95680	1.00365	0.99057	0.99304	0.98463	0.98554	0.98743	0.99062	0.99174	0.99192	0.99195	0.99228	0.99177	0.99225	0.99221	0.99218	0.99227	0.99233	0.99246	0.99250
24	0.95953	1.00919	0.98909	0.99236	0.98505	0.98595	0.98754	0.99084	0.99143	0.99217	0.99181	0.99214	0.99207	0.99211	0.99234	0.99226	0.99219	0.99217	0.99237	0.99266
25	0.96250	1.01446	0.98604	0.99156	0.98522	0.98636	0.98789	0.99060	0.99154	0.99195	0.99200	0.99212	0.99205	0.99215	0.99211	0.99231	0.99219	0.99249	0.99241	0.99244
26	0.96569	1.01619	0.98533	0.99090	0.98544	0.98669	0.98798	0.99073	0.99152	0.99195	0.99205	0.99193	0.99206	0.99222	0.99214	0.99235	0.99209	0.99250	0.99233	0.99252
27	0.97034	1.01882	0.98665	0.99085	0.98576	0.98727	0.98824	0.99074	0.99153	0.99192	0.99202	0.99189	0.99202	0.99241	0.99192	0.99235	0.99205	0.99250	0.99253	0.99253
28	0.97637	1.02067	0.99039	0.99176	0.98601	0.98797	0.98884	0.99098	0.99157	0.99176	0.99202	0.99193	0.99222	0.99216	0.99192	0.99249	0.99204	0.99268	0.99250	0.99243
29	0.98316	1.02426	0.99396	0.99322	0.98650	0.98855	0.98947	0.99122	0.99161	0.99178	0.99183	0.99209	0.99217	0.99213	0.99228	0.99219	0.99234	0.99257	0.99258	0.99255
30	0.99030	1.02675	1.00141	0.99466	0.98677	0.98921	0.99015	0.99119	0.99169	0.99189	0.99187	0.99196	0.99222	0.99213	0.99226	0.99237	0.99233	0.99252	0.99267	0.99247
31	0.99651	1.02645	1.00653	0.99595	0.98692	0.98978	0.99058	0.99131	0.99176	0.99178	0.99178	0.99198	0.99240	0.99191	0.99245	0.99212	0.99268	0.99243	0.99282	0.99259
32	1.00040	1.02587	1.01184	0.99716	0.98681	0.98990	0.99066	0.99138	0.99170	0.99164	0.99194	0.99199	0.99223	0.99207	0.99236	0.99228	0.99258	0.99253	0.99246	0.99288
33	1.00151	1.02981	1.00997	0.99834	0.98644	0.98946	0.99055	0.99113	0.99168	0.99164	0.99176	0.99194	0.99229	0.99198	0.99225	0.99231	0.99262	0.99257	0.99249	0.99270
34	1.00043	1.03148	1.01052	0.99927	0.98569	0.98882	0.98996	0.99114	0.99136	0.99173	0.99172	0.99187	0.99201	0.99204	0.99229	0.99235	0.99245	0.99258	0.99270	0.99270
35	0.99849	1.03441	1.00877	1.00009	0.98507	0.98795	0.98941	0.99090	0.99123	0.99156	0.99169	0.99181	0.99192	0.99212	0.99216	0.99240	0.99231	0.99260	0.99251	0.99290
36	0.99665	1.03435	1.00679	1.00058	0.98422	0.98713	0.98899	0.99064	0.99119	0.99136	0.99172	0.99167	0.99193	0.99196	0.99211	0.99231	0.99241	0.99269	0.99241	0.99276
37	0.99441	1.03136	1.00625	1.00077	0.98359	0.98650	0.98841	0.99038	0.99112	0.99137	0.99157	0.99163	0.99186	0.99200	0.99201	0.99234	0.99240	0.99250	0.99256	0.99271
38	0.99207	1.02621	1.00924	1.00052	0.98305	0.98590	0.98802	0.99027	0.99105	0.99126	0.99141	0.99158	0.99175	0.99202	0.99198	0.99228	0.99233	0.99257	0.99245	0.99292
39	0.98963	1.01902	1.01129	0.99994	0.98256	0.98534	0.98778	0.99006	0.99096	0.99123	0.99135	0.99158	0.99165	0.99194	0.99194	0.99232	0.99233	0.99255	0.99259	0.99268
40	0.98726	1.01193	1.01560	0.99912	0.98228	0.98487	0.98752	0.99005	0.99088	0.99110	0.99138	0.99158	0.99171	0.99188	0.99196	0.99229	0.99229	0.99262	0.99262	0.99271
41	0.98494	1.00620	1.01690	0.99814	0.98190	0.98445	0.98724	0.98991	0.99092	0.99103	0.99134	0.99149	0.99173	0.99183	0.99203	0.99229	0.99228	0.99259	0.99267	0.99275
42	0.98268	1.00137	1.01581	0.99702	0.98138	0.98392	0.98685	0.98971	0.99068	0.99090	0.99127	0.99139	0.99167	0.99175	0.99202	0.99216	0.99234	0.99234	0.99269	0.99273
43	0.98045	0.99815	1.01315	0.99582	0.98071	0.98313	0.98622	0.98939	0.99051	0.99068	0.99107	0.99124	0.99149	0.99162	0.99187	0.99206	0.99222	0.99234	0.99264	0.99253
44	0.97849	0.99575	1.00912	0.99457	0.98001	0.98235	0.98557	0.98894	0.99027	0.99055	0.99079	0.99101	0.99130	0.99140	0.99179	0.99186	0.99210	0.99228	0.99245	0.99256
45	0.97695	0.99427	1.00420	0.99337	0.97940	0.98167	0.98494	0.98857	0.99003	0.99026	0.99059	0.99086	0.99101	0.99132	0.99158	0.99173	0.99191	0.99217	0.99241	0.99241
46	0.97591	0.99267	1.00093	0.99219	0.97904	0.98122	0.98455	0.98836	0.98980	0.99020	0.99038	0.99075	0.99094	0.99121	0.99149	0.99162	0.99186	0.99218	0.99229	0.99249
47	0.97526	0.99024	0.99849	0.99061	0.97891	0.98098	0.98441	0.98835	0.98976	0.99016	0.99045	0.99076	0.99091	0.99121	0.99146	0.99173	0.99193	0.99211	0.99232	0.99256
48	0.97499	0.98713	0.99756	0.98874	0.97912	0.98110	0.98446	0.98850	0.98991	0.99037	0.99063	0.99084	0.99115	0.99136	0.99165	0.99179	0.99206	0.99229	0.99246	0.99268
49	0.97500	0.98395	0.99701	0.98674	0.97948	0.98133	0.98479	0.98877	0.99020	0.99062	0.99084	0.99114	0.99136	0.99161	0.99185	0.99205	0.99228	0.99240	0.99263	0.99289
50	0.97507	0.98125	0.99620	0.98500	0.97994	0.98172	0.98520	0.98902	0.99045	0.99088	0.99119	0.99133	0.99163	0.99186	0.99199	0.99229	0.99243	0.99267	0.99279	0.99301
51	0.97551	0.97884	0.99495	0.98365	0.98039	0.98210	0.98550	0.98927	0.99065	0.99112	0.99134	0.99155	0.99175	0.99206	0.99217	0.99243	0.99260	0.99273	0.99290	0.99316
52	0.97669	0.97861	0.99103	0.98262	0.98082	0.98245	0.98585	0.98953	0.99081	0.99125	0.99148	0.99166	0.99191	0.99218	0.99226	0.99253	0.99274	0.99290	0.99298	0.99325
53	0.97864	0.97913	0.98808	0.98184	0.98119	0.98279	0.98615	0.98970	0.99092	0.99133	0.99160	0.99174	0.99200	0.99222	0.99237	0.99261	0.99278	0.99296	0.99312	0.99331
54	0.98070	0.97671	0.98561	0.98131	0.98157	0.98319	0.98646	0.98988	0.99101	0.99136	0.99162	0.99183	0.99205	0.99223	0.99243	0.99267	0.99285	0.99300	0.99314	0.99340
55	0.98264	0.97626	0.98280	0.98099	0.98207	0.98364	0.98684	0.99007	0.99113	0.99142	0.99165	0.99190	0.99211	0.99229	0.99249	0.99272	0.99288	0.99308	0.99323	0.99340
56	0.98417	0.97616	0.98083	0.98090	0.98264	0.98419	0.98725	0.99029	0.99118	0.99153	0.99169	0.99192	0.99219	0.99239	0.99252	0.99279	0.99294	0.99315	0.99327	0.99345
57	0.98541	0.97646	0.97982	0.98109	0.98313	0.98469	0.98760	0.99044	0.99125	0.99154	0.99171	0.99198	0.99222	0.99238	0.99257	0.99279	0.99298	0.99318	0.99331	0.99345
58	0.98633	0.97717	0.97979	0.98153	0.98356	0.98507	0.98791	0.99050	0.99127	0.99152	0.99171	0.99198	0.99220	0.99240	0.99258	0.99279	0.99296	0.99319	0.99332	0.99347
59	0.98701	0.97812	0.98034	0.98215	0.98398	0.98546	0.98819	0.99057	0.99125	0.99148	0.99172	0.99195	0.99220	0.99238	0.99257	0.99279	0.99299	0.99318	0.99330	0.99348
60	0.98783	0.97876	0.98095	0.98264	0.98434	0.98579	0.98843	0.99062	0.99119	0.99147	0.99169	0.99194	0.99215	0.99239	0.99258	0.99278	0.99296	0.99317	0.99332	0.99349

### Active Enlisted Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95965	1.02478	0.97747	0.99437	0.98902	0.98908	0.99009	0.99127	0.99192	0.99198	0.99210	0.99204	0.99227	0.99207	0.99205	0.99246	0.99184	0.99264	0.99223	0.99205
17	0.95774	1.02456	0.97731	0.99448	0.98899	0.98913	0.99029	0.99119	0.99214	0.99211	0.99201	0.99222	0.99247	0.99208	0.99237	0.99243	0.99223	0.99239	0.99250	0.99221
18	0.95638	1.02054	0.97822	0.99448	0.98826	0.98846	0.98996	0.99107	0.99222	0.99191	0.99204	0.99221	0.99258	0.99205	0.99253	0.99237	0.99193	0.99256	0.99249	0.99227
19	0.95546	1.01370	0.98258	0.99425	0.98729	0.98748	0.98913	0.99104	0.99203	0.99189	0.99213	0.99215	0.99228	0.99215	0.99236	0.99241	0.99206	0.99259	0.99225	0.99235
20	0.95447	1.00748	0.98746	0.99406	0.98621	0.98658	0.98835	0.99081	0.99199	0.99200	0.99183	0.99226	0.99212	0.99225	0.99217	0.99243	0.99208	0.99238	0.99230	0.99261
21	0.95415	1.00362	0.99021	0.99397	0.98528	0.98590	0.98781	0.99083	0.99174	0.99197	0.99198	0.99212	0.99205	0.99211	0.99228	0.99225	0.99237	0.99221	0.99232	0.99261
22	0.95486	1.00202	0.99222	0.99366	0.98481	0.98545	0.98758	0.99066	0.99156	0.99212	0.99195	0.99228	0.99180	0.99205	0.99243	0.99217	0.99228	0.99236	0.99222	0.99249
23	0.95667	1.00361	0.99181	0.99308	0.98465	0.98557	0.98743	0.99063	0.99173	0.99191	0.99195	0.99228	0.99176	0.99226	0.99221	0.99217	0.99228	0.99231	0.99247	0.99249
24	0.95938	1.00789	0.98905	0.99235	0.98507	0.98597	0.98754	0.99084	0.99142	0.99217	0.99181	0.99213	0.99206	0.99212	0.99233	0.99225	0.99218	0.99216	0.99237	0.99266
25	0.96237	1.01326	0.98521	0.99153	0.98523	0.98636	0.98789	0.99060	0.99154	0.99195	0.99200	0.99211	0.99204	0.99215	0.99210	0.99230	0.99219	0.99249	0.99241	0.99244
26	0.96562	1.01747	0.98403	0.99084	0.98544	0.98669	0.98797	0.99073	0.99152	0.99195	0.99205	0.99193	0.99206	0.99222	0.99214	0.99235	0.99209	0.99250	0.99231	0.99252
27	0.97033	1.02141	0.98495	0.99080	0.98576	0.98727	0.98824	0.99074	0.99153	0.99192	0.99202	0.99189	0.99202	0.99241	0.99191	0.99234	0.99204	0.99250	0.99253	0.99252
28	0.97637	1.02304	0.98987	0.99168	0.98602	0.98797	0.98885	0.99098	0.99157	0.99176	0.99202	0.99193	0.99222	0.99216	0.99192	0.99249	0.99203	0.99268	0.99249	0.99243
29	0.98316	1.02452	0.99631	0.99312	0.98650	0.98856	0.98948	0.99122	0.99161	0.99178	0.99183	0.99209	0.99217	0.99213	0.99227	0.99219	0.99234	0.99257	0.99257	0.99255
30	0.99033	1.02482	1.00301	0.99453	0.98678	0.98921	0.99015	0.99119	0.99169	0.99189	0.99188	0.99195	0.99222	0.99213	0.99226	0.99237	0.99233	0.99252	0.99267	0.99247
31	0.99656	1.02487	1.00879	0.99583	0.98692	0.98979	0.99058	0.99131	0.99176	0.99178	0.99178	0.99198	0.99240	0.99191	0.99244	0.99212	0.99268	0.99243	0.99282	0.99258
32	1.00051	1.02726	1.01055	0.99704	0.98683	0.98992	0.99067	0.99138	0.99169	0.99164	0.99194	0.99199	0.99223	0.99207	0.99236	0.99228	0.99258	0.99253	0.99246	0.99288
33	1.00165	1.02964	1.01085	0.99819	0.98647	0.98950	0.99057	0.99113	0.99168	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99256	0.99249	0.99270
34	1.00064	1.03171	1.00929	0.99919	0.98572	0.98887	0.99114	0.99136	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99245	0.99257	0.99270	0.99269	0.99269
35	0.99881	1.03330	1.00747	1.00002	0.98511	0.98799	0.98944	0.99091	0.99123	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99239	0.99230	0.99259	0.99251	0.99289
36	0.99694	1.03440	1.00467	1.00053	0.98426	0.98718	0.98902	0.99065	0.99118	0.99135	0.99171	0.99166	0.99193	0.99194	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99473	1.03234	1.00538	1.00069	0.98364	0.98656	0.98844	0.99038	0.99111	0.99136	0.99156	0.99162	0.99185	0.99199	0.99199	0.99233	0.99239	0.99248	0.99256	0.99269
38	0.99236	1.02762	1.00719	1.00049	0.98309	0.98596	0.98805	0.99027	0.99104	0.99125	0.99140	0.99157	0.99174	0.99201	0.99197	0.99228	0.99232	0.99256	0.99244	0.99291
39	0.98990	1.02043	1.01079	0.99993	0.98260	0.98538	0.98781	0.99006	0.99095	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99231	0.99233	0.99254	0.99258	0.99267
40	0.98746	1.01309	1.01471	0.99913	0.98230	0.98490	0.98753	0.99005	0.99087	0.99109	0.99138	0.99157	0.99171	0.99188	0.99195	0.99228	0.99229	0.99262	0.99261	0.99270
41	0.98507	1.00748	1.01677	0.99816	0.98195	0.98450	0.98727	0.98991	0.99091	0.99101	0.99133	0.99148	0.99171	0.99182	0.99201	0.99229	0.99227	0.99257	0.99267	0.99273
42	0.98276	1.00181	1.01715	0.99706	0.98139	0.98393	0.98686	0.98971	0.99068	0.99090	0.99126	0.99139	0.99167	0.99175	0.99202	0.99216	0.99234	0.99234	0.99269	0.99272
43	0.98049	0.99873	1.01421	0.99586	0.98073	0.98316	0.98624	0.98938	0.99050	0.99067	0.99106	0.99124	0.99148	0.99161	0.99186	0.99205	0.99222	0.99233	0.99263	0.99252
44	0.97852	0.99581	1.00934	0.99460	0.98002	0.98236	0.98557	0.98894	0.99026	0.99054	0.99078	0.99100	0.99129	0.99140	0.99178	0.99185	0.99209	0.99228	0.99244	0.99255
45	0.97697	0.99371	1.00440	0.99340	0.97940	0.98168	0.98494	0.98856	0.99002	0.99025	0.99058	0.99085	0.99099	0.99131	0.99157	0.99172	0.99190	0.99216	0.99241	0.99239
46	0.97591	0.99163	1.00083	0.99219	0.97904	0.98122	0.98455	0.98836	0.98980	0.99019	0.99038	0.99075	0.99094	0.99121	0.99148	0.99162	0.99186	0.99218	0.99229	0.99249
47	0.97523	0.98936	0.99656	0.99059	0.97891	0.98098	0.98442	0.98836	0.98977	0.99017	0.99046	0.99077	0.99091	0.99122	0.99147	0.99173	0.99194	0.99212	0.99232	0.99256
48	0.97494	0.98638	0.99558	0.98873	0.97911	0.98110	0.98446	0.98850	0.98991	0.99037	0.99063	0.99084	0.99115	0.99136	0.99164	0.99179	0.99205	0.99229	0.99246	0.99268
49	0.97492	0.98351	0.99504	0.98675	0.97949	0.98135	0.98480	0.98878	0.99021	0.99063	0.99085	0.99115	0.99137	0.99162	0.99186	0.99206	0.99229	0.99241	0.99264	0.99290
50	0.97499	0.98110	0.99210	0.98506	0.97994	0.98172	0.98520	0.98902	0.99045	0.99088	0.99119	0.99133	0.99163	0.99186	0.99199	0.99229	0.99243	0.99267	0.99279	0.99301
51	0.97544	0.97930	0.99085	0.98373	0.98057	0.98226	0.98560	0.98933	0.99070	0.99117	0.99139	0.99160	0.99181	0.99211	0.99222	0.99248	0.99265	0.99277	0.99294	0.99320
52	0.97658	0.97789	0.98882	0.98268	0.98102	0.98264	0.98597	0.98959	0.99086	0.99130	0.99153	0.99171	0.99196	0.99223	0.99231	0.99257	0.99278	0.99294	0.99302	0.99329
53	0.97844	0.97682	0.98598	0.98193	0.98142	0.98299	0.98628	0.98977	0.99097	0.99138	0.99165	0.99179	0.99205	0.99226	0.99242	0.99265	0.99282	0.99299	0.99316	0.99334
54	0.98061	0.97608	0.98294	0.98145	0.98177	0.98337	0.98659	0.98994	0.99105	0.99140	0.99165	0.99187	0.99209	0.99227	0.99246	0.99270	0.99289	0.99303	0.99317	0.99342
55	0.98256	0.97563	0.98016	0.98116	0.98229	0.98384	0.98697	0.99013	0.99117	0.99145	0.99168	0.99194	0.99215	0.99232	0.99252	0.99275	0.99291	0.99311	0.99326	0.99342
56	0.98409	0.97552	0.97821	0.98109	0.98287	0.98440	0.98740	0.99036	0.99122	0.99157	0.99173	0.99196	0.99222	0.99243	0.99255	0.99282	0.99298	0.99318	0.99329	0.99347
57	0.98533	0.97581	0.97721	0.98129	0.98337	0.98491	0.98776	0.99051	0.99129	0.99157	0.99174	0.99201	0.99225	0.99242	0.99261	0.99282	0.99301	0.99321	0.99334	0.99348
58	0.98625	0.97653	0.97718	0.98173	0.98381	0.98530	0.98808	0.99057	0.99130	0.99155	0.99174	0.99201	0.99222	0.99243	0.99261	0.99281	0.99299	0.99322	0.99335	0.99349
59	0.98693	0.97748	0.97773	0.98234	0.98424	0.98571	0.98837	0.99063	0.99128	0.99151	0.99174	0.99198	0.99222	0.99241	0.99260	0.99281	0.99301	0.99320	0.99332	0.99350
60	0.98774	0.97813	0.97834	0.98282	0.98461	0.98604	0.98861	0.99068	0.99122	0.99149	0.99171	0.99196	0.99217	0.99241	0.99260	0.99280	0.99298	0.99319	0.99333	0.99351

### Non-Disabled Officer Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95904	1.02358	0.97729	0.99418	0.98884	0.99057	0.99101	0.99124	0.99188	0.99203	0.99205	0.99202	0.99231	0.99204	0.99204	0.99245	0.99179	0.99262	0.99229	0.99202
17	0.95712	1.02327	0.97719	0.99433	0.98881	0.99069	0.99129	0.99108	0.99216	0.99208	0.99199	0.99219	0.99243	0.99210	0.99238	0.99241	0.99214	0.99242	0.99249	0.99220
18	0.95580	1.01910	0.97816	0.99437	0.98813	0.99014	0.99108	0.99106	0.99224	0.99190	0.99203	0.99218	0.99259	0.99205	0.99253	0.99231	0.99193	0.99254	0.99251	0.99226
19	0.95489	1.01247	0.98020	0.99421	0.98717	0.98926	0.99035	0.99108	0.99203	0.99188	0.99215	0.99212	0.99226	0.99216	0.99237	0.99238	0.99204	0.99259	0.99226	0.99233
20	0.95393	1.00581	0.98250	0.99407	0.98611	0.98846	0.98964	0.99088	0.99199	0.99200	0.99184	0.99223	0.99212	0.99225	0.99218	0.99242	0.99208	0.99236	0.99230	0.99261
21	0.95365	1.00103	0.98438	0.99400	0.98518	0.98785	0.98916	0.99091	0.99176	0.99196	0.99199	0.99211	0.99203	0.99211	0.99228	0.99223	0.99238	0.99218	0.99233	0.99262
22	0.95438	0.99893	0.98491	0.99368	0.98471	0.98743	0.98895	0.99075	0.99158	0.99212	0.99197	0.99228	0.99179	0.99206	0.99243	0.99216	0.99229	0.99233	0.99223	0.99249
23	0.95618	1.00056	0.98351	0.99310	0.98456	0.98752	0.98878	0.99072	0.99175	0.99191	0.99196	0.99227	0.99175	0.99226	0.99220	0.99215	0.99228	0.99229	0.99248	0.99249
24	0.95890	1.00469	0.98113	0.99234	0.98497	0.98784	0.98884	0.99093	0.99143	0.99216	0.99182	0.99213	0.99205	0.99213	0.99232	0.99225	0.99218	0.99215	0.99236	0.99265
25	0.96190	1.00954	0.97805	0.99149	0.98513	0.98815	0.98912	0.99068	0.99155	0.99194	0.99200	0.99211	0.99203	0.99215	0.99209	0.99228	0.99219	0.99247	0.99242	0.99243
26	0.96520	1.01377	0.97603	0.99078	0.98535	0.98839	0.98914	0.99081	0.99154	0.99195	0.99204	0.99192	0.99201	0.99189	0.99202	0.99241	0.99190	0.99233	0.99202	0.99250
27	0.96998	1.01731	0.97680	0.99074	0.98567	0.98891	0.98938	0.99080	0.99154	0.99192	0.99201	0.99189	0.99202	0.99210	0.99206	0.99233	0.99202	0.99250	0.99252	0.99252
28	0.97611	1.01978	0.98090	0.99163	0.98593	0.98958	0.98997	0.99104	0.99158	0.99176	0.99202	0.99192	0.99223	0.99216	0.99190	0.99249	0.99201	0.99269	0.99248	0.99243
29	0.98305	1.02143	0.98679	0.99308	0.98642	0.99015	0.99060	0.99129	0.99162	0.99178	0.99182	0.99209	0.99218	0.99212	0.99227	0.99218	0.99234	0.99256	0.99257	0.99254
30	0.99036	1.02225	0.99324	0.99453	0.98670	0.99080	0.99126	0.99126	0.99171	0.99189	0.99188	0.99195	0.99222	0.99213	0.99225	0.99237	0.99232	0.99251	0.99268	0.99246
31	0.99674	1.02309	0.99842	0.99584	0.98683	0.99135	0.99169	0.99138	0.99178	0.99177	0.99178	0.99198	0.99240	0.99191	0.99244	0.99211	0.99267	0.99242	0.99282	0.99258
32	1.00084	1.02469	1.00153	0.99706	0.98673	0.99144	0.99175	0.99145	0.99171	0.99195	0.99195	0.99199	0.99222	0.99207	0.99236	0.99227	0.99257	0.99253	0.99246	0.99288
33	1.00211	1.02722	1.00193	0.99821	0.98636	0.99096	0.99163	0.99120	0.99170	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99257	0.99249	0.99269
34	1.00113	1.03002	1.00075	0.99921	0.98561	0.99027	0.99100	0.99120	0.99138	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99244	0.99257	0.99270	0.99269
35	0.99929	1.03272	0.99870	1.00005	0.98499	0.98934	0.99041	0.99096	0.99125	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99240	0.99230	0.99260	0.99251	0.99289
36	0.99736	1.03375	0.99744	1.00055	0.98415	0.98848	0.98996	0.99070	0.99120	0.99135	0.99171	0.99166	0.99193	0.99194	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99507	1.03204	0.99833	1.00072	0.98352	0.98783	0.98937	0.99044	0.99113	0.99137	0.99156	0.99162	0.99185	0.99200	0.99200	0.99234	0.99239	0.99249	0.99256	0.99270
38	0.99261	1.02726	1.00181	1.00051	0.98297	0.98722	0.98897	0.99032	0.99106	0.99125	0.99140	0.99157	0.99175	0.99201	0.99198	0.99228	0.99233	0.99256	0.99245	0.99291
39	0.99001	1.02055	1.00658	0.99994	0.98247	0.98665	0.98873	0.99011	0.99097	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99232	0.99233	0.99255	0.99258	0.99267
40	0.98753	1.01318	1.01191	0.99913	0.98219	0.98619	0.98847	0.99010	0.99089	0.99109	0.99137	0.99157	0.99171	0.99187	0.99195	0.99229	0.99229	0.99261	0.99261	0.99270
41	0.98512	1.00656	1.01707	0.99817	0.98074	0.98553	0.98850	0.98889	0.99121	0.99103	0.99136	0.99150	0.99172	0.99180	0.99201	0.99229	0.99228	0.99257	0.99267	0.99274
42	0.98275	1.00126	1.01884	0.99709	0.98054	0.98441	0.98768	0.98882	0.99104	0.99093	0.99131	0.99141	0.99167	0.99173	0.99202	0.99217	0.99235	0.99234	0.99269	0.99272
43	0.98046	0.99917	1.01484	0.99590	0.97956	0.98336	0.98674	0.98920	0.99049	0.99070	0.99111	0.99128	0.99147	0.99160	0.99185	0.99206	0.99223	0.99234	0.99263	0.99252
44	0.97868	0.99643	1.01080	0.99466	0.97867	0.98264	0.98601	0.98919	0.98976	0.99070	0.99083	0.99106	0.99127	0.99138	0.99177	0.99186	0.99210	0.99228	0.99244	0.99255
45	0.97698	0.99446	1.00719	0.99351	0.97766	0.98180	0.98529	0.98878	0.98951	0.99052	0.99063	0.99091	0.99099	0.99131	0.99157	0.99173	0.99192	0.99217	0.99241	0.99240
46	0.97591	0.99309	1.00240	0.99227	0.97684	0.98104	0.98484	0.98857	0.98941	0.99038	0.99042	0.99079	0.99092	0.99120	0.99147	0.99162	0.99186	0.99218	0.99228	0.99248
47	0.97523	0.99050	1.00074	0.99069	0.97601	0.98074	0.98462	0.98860	0.98938	0.99036	0.99049	0.99081	0.99091	0.99121	0.99145	0.99173	0.99194	0.99212	0.99232	0.99255
48	0.97492	0.98723	0.99924	0.98877	0.97622	0.98060	0.98461	0.98876	0.98973	0.99043	0.99068	0.99089	0.99118	0.99135	0.99164	0.99180	0.99207	0.99230	0.99247	0.99269
49	0.97490	0.98459	0.99813	0.98672	0.97610	0.98068	0.98498	0.98904	0.99025	0.99039	0.99096	0.99120	0.99140	0.99161	0.99185	0.99206	0.99230	0.99242	0.99265	0.99290
50	0.97497	0.98173	0.99801	0.98491	0.97618	0.98078	0.98534	0.98927	0.99055	0.99058	0.99139	0.99139	0.99168	0.99187	0.99200	0.99231	0.99245	0.99269	0.99281	0.99302
51	0.97540	0.98020	0.99659	0.98348	0.97623	0.98090	0.98551	0.98951	0.99079	0.99089	0.99151	0.99163	0.99183	0.99209	0.99220	0.99246	0.99264	0.99277	0.99294	0.99319
52	0.97655	0.97904	0.99458	0.98231	0.97641	0.98080	0.98584	0.98973	0.99099	0.99102	0.99166	0.99174	0.99199	0.99222	0.99230	0.99256	0.99278	0.99294	0.99302	0.99328
53	0.97841	0.97789	0.99161	0.98144	0.97653	0.98104	0.98597	0.98986	0.99111	0.99121	0.99168	0.99181	0.99207	0.99227	0.99240	0.99263	0.99282	0.99299	0.99316	0.99334
54	0.98058	0.97736	0.98797	0.98088	0.97702	0.98095	0.98614	0.99005	0.99122	0.99139	0.99148	0.99194	0.99212	0.99229	0.99245	0.99268	0.99288	0.99304	0.99317	0.99342
55	0.98253	0.97666	0.98557	0.98045	0.97762	0.98099	0.98628	0.99020	0.99132	0.99148	0.99145	0.99206	0.99217	0.99235	0.99251	0.99274	0.99291	0.99311	0.99326	0.99342
56	0.98407	0.97679	0.98370	0.98029	0.97880	0.98102	0.98642	0.99031	0.99135	0.99163	0.99152	0.99205	0.99225	0.99245	0.99254	0.99281	0.99297	0.99318	0.99330	0.99347
57	0.98531	0.97698	0.98265	0.98044	0.97997	0.98111	0.98636	0.99041	0.99139	0.99166	0.99152	0.99211	0.99228	0.99244	0.99260	0.99281	0.99300	0.99321	0.99334	0.99348
58	0.98624	0.97809	0.98264	0.98087	0.98095	0.98114	0.98652	0.99033	0.99138	0.99166	0.99159	0.99204	0.99225	0.99246	0.99262	0.99280	0.99298	0.99322	0.99335	0.99349
59	0.98693	0.97900	0.98327	0.98152	0.98212	0.98150	0.98637	0.99028	0.99138	0.99164	0.99172	0.99184	0.99229	0.99244	0.99261	0.99280	0.99300	0.99320	0.99333	0.99350
60	0.98773	0.97958	0.98367	0.98203	0.98281	0.98180	0.98619	0.99011	0.99128	0.99162	0.99173	0.99175	0.99229	0.99244	0.99262	0.99279	0.99298	0.99318	0.99334	0.99351

**Non-Disabled Officer Mortality Improvement Rates (cont'd)**

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.98838	0.98065	0.98439	0.98252	0.98353	0.98273	0.98602	0.98992	0.99121	0.99159	0.99178	0.99176	0.99230	0.99244	0.99265	0.99278	0.99301	0.99316	0.99335	0.99354
62	0.98814	0.98196	0.98534	0.98333	0.98460	0.98399	0.98609	0.98971	0.99127	0.99166	0.99188	0.99183	0.99235	0.99252	0.99270	0.99286	0.99306	0.99321	0.99339	0.99357
63	0.98693	0.98337	0.98582	0.98449	0.98581	0.98549	0.98639	0.98983	0.99129	0.99181	0.99207	0.99204	0.99242	0.99260	0.99283	0.99296	0.99313	0.99329	0.99347	0.99363
64	0.98539	0.98386	0.98738	0.98566	0.98674	0.98730	0.98700	0.98971	0.99140	0.99200	0.99226	0.99232	0.99240	0.99279	0.99293	0.99310	0.99322	0.99338	0.99354	0.99370
65	0.98396	0.98555	0.98839	0.98689	0.98825	0.98866	0.98761	0.98956	0.99136	0.99215	0.99240	0.99250	0.99247	0.99296	0.99303	0.99320	0.99332	0.99347	0.99361	0.99376
66	0.98317	0.98718	0.98834	0.98776	0.98913	0.98978	0.98855	0.98927	0.99123	0.99218	0.99249	0.99263	0.99258	0.99302	0.99312	0.99328	0.99338	0.99353	0.99367	0.99381
67	0.98328	0.98724	0.98824	0.98781	0.98955	0.99052	0.98936	0.98898	0.99090	0.99220	0.99256	0.99273	0.99263	0.99307	0.99318	0.99333	0.99344	0.99358	0.99371	0.99386
68	0.98438	0.98550	0.98741	0.98713	0.98977	0.99074	0.98991	0.98866	0.99077	0.99210	0.99256	0.99280	0.99272	0.99305	0.99320	0.99337	0.99349	0.99361	0.99375	0.99388
69	0.98600	0.98269	0.98694	0.98601	0.98974	0.99045	0.99057	0.98860	0.99036	0.99198	0.99261	0.99283	0.99285	0.99290	0.99327	0.99338	0.99353	0.99363	0.99377	0.99391
70	0.98770	0.98000	0.98713	0.98498	0.98964	0.99076	0.99087	0.98857	0.98993	0.99176	0.99258	0.99283	0.99290	0.99285	0.99334	0.99341	0.99355	0.99366	0.99379	0.99394
71	0.98915	0.97830	0.98782	0.98437	0.99006	0.99088	0.99126	0.98901	0.98941	0.99149	0.99249	0.99282	0.99294	0.99288	0.99334	0.99342	0.99358	0.99369	0.99382	0.99397
72	0.99031	0.97808	0.98764	0.98411	0.99029	0.99105	0.99167	0.98954	0.98896	0.99106	0.99244	0.99281	0.99299	0.99286	0.99336	0.99344	0.99360	0.99371	0.99385	0.99399
73	0.99112	0.97918	0.98721	0.98419	0.99119	0.99150	0.99199	0.99003	0.98853	0.99086	0.99229	0.99277	0.99301	0.99293	0.99329	0.99345	0.99361	0.99373	0.99386	0.99401
74	0.99173	0.98068	0.98713	0.98455	0.99182	0.99199	0.99202	0.99075	0.98842	0.99038	0.99215	0.99280	0.99304	0.99305	0.99312	0.99350	0.99362	0.99376	0.99388	0.99403
75	0.99215	0.98243	0.98710	0.98515	0.99200	0.99243	0.99265	0.99119	0.98843	0.98999	0.99197	0.99282	0.99309	0.99315	0.99310	0.99361	0.99367	0.99382	0.99393	0.99408
76	0.99263	0.98391	0.98791	0.98585	0.99196	0.99323	0.99295	0.99160	0.98896	0.98950	0.99175	0.99279	0.99314	0.99325	0.99318	0.99365	0.99374	0.99388	0.99400	0.99413
77	0.99338	0.98435	0.98894	0.98668	0.99259	0.99377	0.99316	0.99190	0.98943	0.98895	0.99124	0.99271	0.99310	0.99327	0.99313	0.99365	0.99373	0.99388	0.99401	0.99414
78	0.99443	0.98496	0.99012	0.98766	0.99252	0.99486	0.99352	0.99192	0.98972	0.98827	0.99087	0.99241	0.99297	0.99320	0.99311	0.99350	0.99367	0.99383	0.99398	0.99410
79	0.99556	0.98510	0.99167	0.98874	0.99290	0.99560	0.99382	0.99157	0.99027	0.98789	0.99014	0.99213	0.99287	0.99312	0.99314	0.99321	0.99364	0.99377	0.99393	0.99405
80	0.99672	0.98617	0.99237	0.98990	0.99409	0.99585	0.99400	0.99182	0.99042	0.98757	0.98941	0.99168	0.99269	0.99299	0.99307	0.99301	0.99361	0.99369	0.99387	0.99399
81	0.99752	0.98722	0.99340	0.99112	0.99507	0.99581	0.99460	0.99181	0.99071	0.98802	0.98869	0.99131	0.99252	0.99295	0.99309	0.99301	0.99357	0.99368	0.99386	0.99400
82	0.99769	0.98738	0.99476	0.99240	0.99548	0.99642	0.99496	0.99198	0.99128	0.98886	0.98836	0.99098	0.99266	0.99311	0.99330	0.99313	0.99372	0.99382	0.99399	0.99413
83	0.99709	0.98856	0.99605	0.99372	0.99634	0.99622	0.99598	0.99259	0.99193	0.98991	0.98833	0.99120	0.99288	0.99345	0.99369	0.99354	0.99394	0.99409	0.99425	0.99438
84	0.99626	0.98766	0.99858	0.99503	0.99707	0.99649	0.99665	0.99323	0.99226	0.99134	0.98878	0.99116	0.99320	0.99391	0.99412	0.99406	0.99407	0.99447	0.99454	0.99466
85	0.99539	0.98940	0.99958	0.99633	0.99765	0.99758	0.99675	0.99369	0.99320	0.99224	0.98923	0.99108	0.99334	0.99425	0.99446	0.99444	0.99428	0.99480	0.99480	0.99490
86	0.99483	0.98988	1.00165	0.99759	0.99848	0.99845	0.99649	0.99440	0.99356	0.99297	0.99016	0.99079	0.99331	0.99439	0.99469	0.99470	0.99451	0.99497	0.99498	0.99506
87	0.99467	0.99235	1.00171	0.99881	0.99957	0.99876	0.99688	0.99463	0.99369	0.99352	0.99104	0.99049	0.99299	0.99449	0.99480	0.99487	0.99461	0.99507	0.99507	0.99515
88	0.99487	0.99356	1.00303	0.99999	0.99993	0.99955	0.99642	0.99533	0.99390	0.99375	0.99173	0.99016	0.99287	0.99437	0.99482	0.99494	0.99473	0.99502	0.99510	0.99518
89	0.99530	0.99482	1.00381	1.00111	1.00035	1.00023	0.99644	0.99553	0.99396	0.99348	0.99259	0.99015	0.99238	0.99423	0.99482	0.99495	0.99486	0.99482	0.99514	0.99518
90	0.99585	0.99610	1.00442	1.00217	1.00035	1.00073	0.99725	0.99517	0.99384	0.99382	0.99294	0.99014	0.99191	0.99394	0.99474	0.99490	0.99487	0.99471	0.99517	0.99515
91	0.99643	0.99736	1.00491	1.00318	0.99963	1.00168	0.99801	0.99441	0.99445	0.99373	0.99324	0.99070	0.99136	0.99363	0.99457	0.99483	0.99486	0.99469	0.99510	0.99511
92	0.99695	0.99859	1.00532	1.00413	1.00006	1.00195	0.99817	0.99443	0.99439	0.99361	0.99353	0.99132	0.99096	0.99319	0.99449	0.99477	0.99485	0.99465	0.99507	0.99508
93	0.99738	0.99978	1.00570	1.00502	1.00046	1.00219	0.99832	0.99447	0.99390	0.99401	0.99366	0.99191	0.99067	0.99306	0.99432	0.99472	0.99486	0.99470	0.99498	0.99506
94	0.99766	1.00090	1.00607	1.00585	1.00083	1.00241	0.99847	0.99456	0.99392	0.99402	0.99370	0.99247	0.99076	0.99273	0.99423	0.99474	0.99487	0.99482	0.99482	0.99510
95	0.99789	1.00180	1.00637	1.00652	1.00113	1.00258	0.99860	0.99463	0.99394	0.99402	0.99374	0.99312	0.99084	0.99243	0.99406	0.99471	0.99486	0.99486	0.99476	0.99514
96	0.99806	1.00248	1.00660	1.00703	1.00135	1.00269	0.99869	0.99468	0.99395	0.99402	0.99378	0.99353	0.99214	0.99147	0.99358	0.99463	0.99485	0.99489	0.99479	0.99512
97	0.99818	1.00293	1.00677	1.00737	1.00151	1.00275	0.99875	0.99472	0.99396	0.99402	0.99380	0.99359	0.99231	0.99170	0.99330	0.99460	0.99483	0.99492	0.99478	0.99512
98	0.99823	1.00317	1.00687	1.00754	1.00159	1.00277	0.99877	0.99474	0.99396	0.99402	0.99382	0.99363	0.99245	0.99189	0.99312	0.99449	0.99481	0.99494	0.99484	0.99507
99	0.99823	1.00317	1.00690	1.00754	1.00159	1.00272	0.99877	0.99475	0.99396	0.99402	0.99384	0.99366	0.99256	0.99204	0.99273	0.99456	0.99483	0.99496	0.99493	0.99494
100	0.99823	1.00318	1.00693	1.00754	1.00160	1.00268	0.99876	0.99476	0.99396	0.99401	0.99385	0.99370	0.99267	0.99219	0.99284	0.99420	0.99480	0.99495	0.99496	0.99489
101	0.99823	1.00319	1.00696	1.00754	1.00161	1.00264	0.99875	0.99477	0.99396	0.99401	0.99387	0.99373	0.99278	0.99235	0.99295	0.99393	0.99473	0.99493	0.99498	0.99491
102	0.99823	1.00320	1.00699	1.00754	1.00162	1.00260	0.99874	0.99478	0.99396	0.99400	0.99388	0.99376	0.99289	0.99250	0.99306	0.99366	0.99470	0.99492	0.99500	0.99490
103	0.99823	1.00320	1.00703	1.00754	1.00162	1.00255	0.99874	0.99479	0.99396	0.99400	0.99390	0.99380	0.99301	0.99265	0.99317	0.99350	0.99461	0.99489	0.99501	0.99495
104	0.99823	1.00321	1.00706	1.00754	1.00163	1.00251	0.99873	0.99480	0.99396	0.99399	0.99391	0.99383	0.99312	0.99281	0.99329	0.99334	0.99455	0.99490	0.99502	0.99502
105	0.99823	1.00322	1.00709	1.00754	1.00164	1.00246	0.99872	0.99481	0.99396	0.99399	0.99393	0.99387	0.99324	0.99296	0.99340	0.99331	0.99443	0.99487	0.99500	0.99504
106	0.99823	1.00323	1.00712	1.00754	1.00164	1.00242	0.99871	0.99482	0.99396	0.99399	0.99395	0.99390	0.99335	0.99312	0.99351	0.99337	0.99432	0.99481	0.99498	0.99504
107	0.99823	1.00323	1.00716	1.00754	1.00165	1.00238	0.99871	0.99483	0.99396	0.99398	0.99396	0.99394	0.99347	0.99328	0.99363	0.99349	0.99416	0.99477	0.99496	0.99505
108	0.99823	1.00324	1.00719	1.00754	1.00166	1.00233	0.99870	0.99484	0.99396	0.99398	0.99398	0.99397								

**Non-Disabled Enlisted Mortality Improvement Rates**

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.95907	1.02350	0.97651	0.99417	0.99046	0.98896	0.98986	0.99122	0.99187	0.99203	0.99205	0.99202	0.99231	0.99204	0.99204	0.99245	0.99179	0.99262	0.99229	0.99202
17	0.95716	1.02319	0.97638	0.99432	0.99049	0.98901	0.99010	0.99105	0.99214	0.99208	0.99199	0.99219	0.99243	0.99210	0.99238	0.99241	0.99214	0.99242	0.99249	0.99220
18	0.95584	1.01899	0.97733	0.99436	0.98989	0.98839	0.98983	0.99104	0.99222	0.99190	0.99203	0.99218	0.99259	0.99205	0.99253	0.99231	0.99193	0.99253	0.99251	0.99226
19	0.95495	1.01234	0.97936	0.99421	0.98902	0.98744	0.98904	0.99105	0.99202	0.99188	0.99214	0.99212	0.99226	0.99216	0.99236	0.99238	0.99205	0.99259	0.99226	0.99233
20	0.95399	1.00565	0.98164	0.99407	0.98804	0.98655	0.98827	0.99085	0.99197	0.99200	0.99184	0.99224	0.99212	0.99225	0.99218	0.99242	0.99209	0.99236	0.99230	0.99261
21	0.95373	1.00087	0.98350	0.99401	0.98717	0.98589	0.98775	0.99088	0.99174	0.99196	0.99199	0.99211	0.99203	0.99212	0.99228	0.99223	0.99239	0.99218	0.99233	0.99262
22	0.95447	0.99875	0.98404	0.99369	0.98671	0.98545	0.98752	0.99072	0.99156	0.99212	0.99196	0.99228	0.99179	0.99206	0.99243	0.99216	0.99230	0.99233	0.99222	0.99249
23	0.95627	1.00037	0.98263	0.99310	0.98653	0.98558	0.98736	0.99069	0.99173	0.99192	0.99196	0.99227	0.99175	0.99226	0.99220	0.99215	0.99229	0.99229	0.99247	0.99249
24	0.95898	1.00450	0.98026	0.99234	0.98689	0.98596	0.98748	0.99090	0.99141	0.99216	0.99182	0.99213	0.99205	0.99213	0.99232	0.99225	0.99218	0.99215	0.99236	0.99265
25	0.96198	1.00935	0.97719	0.99148	0.98696	0.98635	0.98782	0.99065	0.99153	0.99194	0.99200	0.99211	0.99203	0.99215	0.99209	0.99228	0.99220	0.99247	0.99241	0.99243
26	0.96529	1.01358	0.97519	0.99077	0.98710	0.98667	0.98790	0.99078	0.99152	0.99195	0.99204	0.99192	0.99205	0.99221	0.99214	0.99234	0.99207	0.99251	0.99229	0.99252
27	0.97007	1.01713	0.97596	0.99072	0.98735	0.98725	0.98818	0.99078	0.99152	0.99192	0.99201	0.99189	0.99202	0.99241	0.99190	0.99233	0.99203	0.99250	0.99252	0.99252
28	0.97621	1.01961	0.98007	0.99161	0.98757	0.98797	0.98880	0.99102	0.99157	0.99176	0.99202	0.99192	0.99223	0.99216	0.99190	0.99249	0.99201	0.99269	0.99248	0.99243
29	0.98317	1.02128	0.98596	0.99306	0.98805	0.98856	0.98943	0.99126	0.99161	0.99178	0.99182	0.99209	0.99218	0.99212	0.99226	0.99218	0.99234	0.99256	0.99257	0.99254
30	0.99049	1.02210	0.99243	0.99451	0.98831	0.98922	0.99011	0.99123	0.99170	0.99189	0.99188	0.99195	0.99222	0.99213	0.99225	0.99237	0.99232	0.99251	0.99268	0.99246
31	0.99689	1.02296	0.99762	0.99582	0.98843	0.98980	0.99055	0.99135	0.99177	0.99177	0.99178	0.99198	0.99240	0.99191	0.99244	0.99211	0.99268	0.99242	0.99282	0.99258
32	1.00101	1.02457	1.00074	0.99703	0.98829	0.98993	0.99063	0.99143	0.99170	0.99164	0.99194	0.99199	0.99222	0.99207	0.99236	0.99227	0.99258	0.99253	0.99246	0.99288
33	1.00228	1.02712	1.00113	0.99818	0.98788	0.98950	0.99054	0.99117	0.99169	0.99164	0.99176	0.99193	0.99229	0.99198	0.99224	0.99231	0.99262	0.99256	0.99249	0.99269
34	1.00131	1.02994	0.99996	0.99919	0.98708	0.98886	0.98994	0.99118	0.99136	0.99173	0.99171	0.99186	0.99201	0.99204	0.99229	0.99234	0.99245	0.99257	0.99270	0.99269
35	0.99948	1.03265	0.99791	1.00004	0.98640	0.98798	0.98939	0.99094	0.99124	0.99156	0.99168	0.99180	0.99192	0.99212	0.99216	0.99240	0.99230	0.99260	0.99251	0.99289
36	0.99755	1.03369	0.99665	1.00054	0.98552	0.98716	0.98897	0.99068	0.99119	0.99135	0.99171	0.99166	0.99193	0.99195	0.99210	0.99231	0.99240	0.99268	0.99240	0.99275
37	0.99526	1.03200	1.00095	1.00065	0.98487	0.98653	0.98840	0.99042	0.99111	0.99137	0.99156	0.99162	0.99185	0.99200	0.99200	0.99234	0.99239	0.99249	0.99256	0.99270
38	0.99280	1.02723	1.00578	1.00045	0.98431	0.98593	0.98800	0.99030	0.99105	0.99125	0.99140	0.99157	0.99175	0.99201	0.99198	0.99228	0.99233	0.99256	0.99245	0.99291
39	0.99020	1.02052	1.01002	0.99993	0.98326	0.98535	0.98778	0.99008	0.99096	0.99123	0.99134	0.99158	0.99164	0.99194	0.99193	0.99232	0.99233	0.99255	0.99258	0.99267
40	0.98772	1.01266	1.01644	0.99915	0.98216	0.98489	0.98751	0.99005	0.99089	0.99109	0.99137	0.99157	0.99171	0.99188	0.99195	0.99229	0.99229	0.99261	0.99261	0.99270
41	0.98529	1.00756	1.01904	0.99821	0.98094	0.98455	0.98725	0.98989	0.99094	0.99101	0.99133	0.99148	0.99171	0.99182	0.99201	0.99229	0.99227	0.99257	0.99267	0.99273
42	0.98292	1.00290	1.01949	0.99714	0.97917	0.98400	0.98685	0.98967	0.99070	0.99089	0.99126	0.99138	0.99166	0.99175	0.99201	0.99215	0.99234	0.99233	0.99269	0.99272
43	0.98061	1.00002	1.01702	0.99598	0.97838	0.98329	0.98623	0.98935	0.99052	0.99066	0.99105	0.99123	0.99147	0.99161	0.99185	0.99205	0.99221	0.99232	0.99263	0.99251
44	0.97857	0.99753	1.01329	0.99477	0.97719	0.98258	0.98556	0.98890	0.99026	0.99053	0.99077	0.99099	0.99127	0.99138	0.99177	0.99184	0.99208	0.99226	0.99244	0.99254
45	0.97699	0.99542	1.00886	0.99360	0.97706	0.98160	0.98492	0.98852	0.99001	0.99025	0.99057	0.99083	0.99098	0.99131	0.99156	0.99171	0.99190	0.99215	0.99240	0.99239
46	0.97590	0.99300	1.00532	0.99237	0.97662	0.98060	0.98455	0.98831	0.98976	0.99018	0.99036	0.99072	0.99090	0.99119	0.99146	0.99160	0.99184	0.99216	0.99227	0.99247
47	0.97520	0.99039	1.00226	0.99074	0.97660	0.97946	0.98442	0.98831	0.98971	0.99016	0.99043	0.99074	0.99088	0.99119	0.99144	0.99171	0.99192	0.99210	0.99230	0.99254
48	0.97489	0.98754	1.00023	0.98878	0.97635	0.97940	0.98450	0.98847	0.98988	0.99038	0.99062	0.99083	0.99114	0.99135	0.99163	0.99178	0.99205	0.99228	0.99246	0.99267
49	0.97486	0.98472	0.99887	0.98670	0.97642	0.97923	0.98491	0.98874	0.99018	0.99063	0.99084	0.99114	0.99135	0.99160	0.99184	0.99204	0.99227	0.99240	0.99263	0.99289
50	0.97491	0.98229	0.99803	0.98487	0.97630	0.97994	0.98513	0.98900	0.99044	0.99089	0.99120	0.99134	0.99163	0.99186	0.99199	0.99230	0.99243	0.99267	0.99279	0.99301
51	0.97535	0.98042	0.99677	0.98343	0.97651	0.98027	0.98509	0.98930	0.99066	0.99113	0.99138	0.99158	0.99178	0.99208	0.99219	0.99245	0.99262	0.99275	0.99292	0.99317
52	0.97648	0.97894	0.99480	0.98225	0.97696	0.98068	0.98480	0.98957	0.99082	0.99126	0.99153	0.99169	0.99194	0.99220	0.99229	0.99256	0.99276	0.99292	0.99300	0.99327
53	0.97835	0.97795	0.99180	0.98135	0.97754	0.98062	0.98494	0.98978	0.99093	0.99134	0.99165	0.99177	0.99203	0.99224	0.99240	0.99263	0.99280	0.99297	0.99314	0.99333
54	0.98052	0.97722	0.98859	0.98074	0.97828	0.98070	0.98487	0.99000	0.99102	0.99136	0.99165	0.99185	0.99207	0.99225	0.99245	0.99268	0.99287	0.99302	0.99315	0.99341
55	0.98247	0.97676	0.98564	0.98033	0.97915	0.98061	0.98545	0.99004	0.99113	0.99142	0.99167	0.99192	0.99213	0.99230	0.99251	0.99274	0.99289	0.99309	0.99324	0.99341
56	0.98401	0.97665	0.98368	0.98015	0.98034	0.98082	0.98574	0.98996	0.99120	0.99154	0.99170	0.99195	0.99221	0.99241	0.99253	0.99280	0.99296	0.99316	0.99328	0.99346
57	0.98525	0.97704	0.98263	0.98031	0.98136	0.98124	0.98608	0.98953	0.99128	0.99155	0.99171	0.99201	0.99224	0.99240	0.99259	0.99280	0.99299	0.99320	0.99332	0.99346
58	0.98617	0.97769	0.98260	0.98074	0.98199	0.98174	0.98602	0.98944	0.99132	0.99152	0.99171	0.99201	0.99221	0.99242	0.99259	0.99280	0.99298	0.99321	0.99334	0.99348
59	0.98684	0.97859	0.98313	0.98139	0.98260	0.98243	0.98603	0.98917	0.99136	0.99149	0.99172	0.99198	0.99222	0.99240	0.99259	0.99280	0.99300	0.99319	0.99331	0.99349
60	0.98766	0.97926	0.98379	0.98191	0.98311	0.98305	0.98574	0.98938	0.99116	0.99147	0.99169	0.99196	0.99217	0.99240	0.99259	0.99280	0.99298	0.99318	0.99333	0.99350

**Non-Disabled Enlisted Mortality Improvement Rates (cont'd)**

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.98828	0.97998	0.98428	0.98241	0.98377	0.98404	0.98573	0.98931	0.99090	0.99148	0.99172	0.99192	0.99221	0.99241	0.99262	0.99278	0.99301	0.99316	0.99335	0.99354
62	0.98802	0.98106	0.98492	0.98324	0.98469	0.98525	0.98612	0.98948	0.99046	0.99157	0.99179	0.99202	0.99226	0.99249	0.99267	0.99286	0.99306	0.99321	0.99339	0.99356
63	0.98683	0.98276	0.98574	0.98439	0.98604	0.98645	0.98689	0.98940	0.99045	0.99177	0.99195	0.99215	0.99240	0.99257	0.99280	0.99294	0.99314	0.99329	0.99346	0.99362
64	0.98533	0.98470	0.98664	0.98555	0.98721	0.98772	0.98787	0.98943	0.99033	0.99199	0.99211	0.99232	0.99253	0.99272	0.99290	0.99307	0.99322	0.99339	0.99354	0.99369
65	0.98390	0.98671	0.98734	0.98679	0.98844	0.98893	0.98880	0.98918	0.99064	0.99203	0.99226	0.99247	0.99266	0.99284	0.99299	0.99317	0.99332	0.99347	0.99360	0.99375
66	0.98312	0.98800	0.98791	0.98764	0.98929	0.98999	0.98982	0.98906	0.99062	0.99187	0.99237	0.99257	0.99275	0.99293	0.99308	0.99325	0.99337	0.99353	0.99367	0.99380
67	0.98323	0.98743	0.98832	0.98770	0.98981	0.99059	0.99059	0.98909	0.99069	0.99138	0.99246	0.99263	0.99281	0.99298	0.99315	0.99330	0.99343	0.99357	0.99371	0.99385
68	0.98433	0.98548	0.98826	0.98694	0.98986	0.99096	0.99086	0.98924	0.99035	0.99124	0.99252	0.99268	0.99284	0.99303	0.99316	0.99334	0.99347	0.99361	0.99374	0.99387
69	0.98596	0.98256	0.98801	0.98580	0.98984	0.99089	0.99102	0.98953	0.99009	0.99088	0.99260	0.99268	0.99285	0.99304	0.99320	0.99335	0.99350	0.99363	0.99377	0.99390
70	0.98766	0.97991	0.98769	0.98483	0.98970	0.99094	0.99117	0.98981	0.98955	0.99102	0.99246	0.99269	0.99287	0.99305	0.99322	0.99338	0.99352	0.99366	0.99379	0.99394
71	0.98911	0.97821	0.98785	0.98427	0.98985	0.99104	0.99150	0.99034	0.98920	0.99086	0.99217	0.99271	0.99288	0.99305	0.99325	0.99339	0.99355	0.99369	0.99382	0.99396
72	0.99027	0.97777	0.98754	0.98402	0.99016	0.99130	0.99178	0.99084	0.98907	0.99083	0.99158	0.99271	0.99289	0.99306	0.99327	0.99341	0.99357	0.99371	0.99385	0.99399
73	0.99108	0.97838	0.98717	0.98411	0.99054	0.99159	0.99225	0.99105	0.98913	0.99041	0.99139	0.99274	0.99289	0.99307	0.99327	0.99342	0.99359	0.99372	0.99387	0.99402
74	0.99168	0.97978	0.98682	0.98449	0.99096	0.99210	0.99250	0.99127	0.98940	0.99008	0.99097	0.99279	0.99289	0.99306	0.99327	0.99343	0.99359	0.99374	0.99389	0.99404
75	0.99211	0.98131	0.98690	0.98505	0.99160	0.99250	0.99287	0.99154	0.98974	0.98956	0.99118	0.99271	0.99295	0.99312	0.99332	0.99349	0.99365	0.99380	0.99394	0.99409
76	0.99260	0.98258	0.98718	0.98577	0.99230	0.99305	0.99315	0.99188	0.99036	0.98924	0.99107	0.99245	0.99302	0.99319	0.99337	0.99356	0.99371	0.99385	0.99401	0.99414
77	0.99337	0.98393	0.98781	0.98663	0.99278	0.99367	0.99345	0.99204	0.99081	0.98903	0.99099	0.99178	0.99301	0.99317	0.99335	0.99356	0.99371	0.99386	0.99401	0.99415
78	0.99446	0.98448	0.98883	0.98761	0.99345	0.99424	0.99365	0.99224	0.99083	0.98889	0.99036	0.99141	0.99294	0.99307	0.99327	0.99348	0.99364	0.99380	0.99397	0.99412
79	0.99561	0.98604	0.99000	0.98867	0.99406	0.99476	0.99399	0.99214	0.99085	0.98895	0.98978	0.99079	0.99288	0.99296	0.99317	0.99340	0.99357	0.99374	0.99392	0.99408
80	0.99680	0.98643	0.99145	0.98982	0.99477	0.99547	0.99412	0.99211	0.99082	0.98903	0.98887	0.99076	0.99257	0.99284	0.99305	0.99329	0.99348	0.99366	0.99385	0.99401
81	0.99766	0.98733	0.99222	0.99106	0.99516	0.99621	0.99444	0.99207	0.99104	0.98962	0.98834	0.99051	0.99214	0.99283	0.99303	0.99325	0.99348	0.99366	0.99384	0.99402
82	0.99776	0.98806	0.99432	0.99236	0.99578	0.99665	0.99488	0.99233	0.99144	0.99043	0.98837	0.99067	0.99158	0.99302	0.99320	0.99340	0.99363	0.99380	0.99397	0.99414
83	0.99716	0.98889	0.99634	0.99368	0.99670	0.99723	0.99534	0.99275	0.99228	0.99114	0.98893	0.99058	0.99174	0.99343	0.99355	0.99372	0.99393	0.99408	0.99423	0.99438
84	0.99623	0.98970	0.99846	0.99502	0.99717	0.99774	0.99577	0.99342	0.99288	0.99194	0.98983	0.99070	0.99174	0.99394	0.99396	0.99410	0.99428	0.99440	0.99453	0.99465
85	0.99537	0.99057	1.00043	0.99634	0.99747	0.99832	0.99636	0.99382	0.99349	0.99263	0.99067	0.99043	0.99235	0.99413	0.99431	0.99442	0.99457	0.99468	0.99478	0.99488
86	0.99482	0.99156	1.00210	0.99762	0.99796	0.99856	0.99693	0.99423	0.99382	0.99328	0.99172	0.99030	0.99246	0.99401	0.99457	0.99465	0.99476	0.99488	0.99496	0.99504
87	0.99466	0.99266	1.00341	0.99886	0.99803	0.99943	0.99713	0.99455	0.99405	0.99367	0.99256	0.99037	0.99262	0.99342	0.99472	0.99478	0.99487	0.99499	0.99505	0.99513
88	0.99485	0.99385	1.00439	1.00005	0.99851	0.99972	0.99727	0.99480	0.99412	0.99409	0.99288	0.99060	0.99221	0.99326	0.99480	0.99482	0.99490	0.99502	0.99509	0.99516
89	0.99528	0.99509	1.00512	1.00117	0.99898	0.99988	0.99773	0.99482	0.99410	0.99410	0.99317	0.99103	0.99188	0.99284	0.99485	0.99481	0.99489	0.99501	0.99508	0.99516
90	0.99584	0.99635	1.00566	1.00224	0.99944	1.00028	0.99791	0.99481	0.99403	0.99403	0.99382	0.99095	0.99122	0.99302	0.99463	0.99476	0.99486	0.99497	0.99505	0.99513
91	0.99641	0.99760	1.00608	1.00325	0.99987	1.00065	0.99807	0.99479	0.99396	0.99396	0.99378	0.99185	0.99082	0.99285	0.99423	0.99473	0.99481	0.99491	0.99503	0.99510
92	0.99694	0.99882	1.00643	1.00420	1.00027	1.00100	0.99821	0.99478	0.99391	0.99391	0.99375	0.99261	0.99075	0.99284	0.99356	0.99470	0.99478	0.99487	0.99500	0.99507
93	0.99736	0.99998	1.00674	1.00510	1.00065	1.00132	0.99836	0.99480	0.99389	0.99388	0.99375	0.99306	0.99095	0.99246	0.99340	0.99471	0.99476	0.99485	0.99498	0.99505
94	0.99765	1.00108	1.00705	1.00594	1.00100	1.00161	0.99851	0.99485	0.99391	0.99390	0.99378	0.99376	0.99103	0.99226	0.99310	0.99476	0.99476	0.99485	0.99497	0.99505
95	0.99788	1.00197	1.00729	1.00661	1.00128	1.00185	0.99863	0.99490	0.99393	0.99392	0.99382	0.99380	0.99163	0.99182	0.99332	0.99463	0.99476	0.99486	0.99497	0.99506
96	0.99805	1.00264	1.00747	1.00712	1.00149	1.00203	0.99872	0.99493	0.99394	0.99393	0.99384	0.99384	0.99244	0.99156	0.99324	0.99436	0.99477	0.99486	0.99496	0.99507
97	0.99817	1.00308	1.00759	1.00746	1.00163	1.00215	0.99878	0.99495	0.99395	0.99394	0.99387	0.99387	0.99357	0.99105	0.99327	0.99388	0.99478	0.99486	0.99495	0.99507
98	0.99823	1.00330	1.00764	1.00763	1.00170	1.00220	0.99880	0.99495	0.99396	0.99394	0.99388	0.99389	0.99362	0.99150	0.99296	0.99376	0.99480	0.99486	0.99495	0.99506
99	0.99823	1.00330	1.00764	1.00763	1.00170	1.00220	0.99879	0.99495	0.99396	0.99394	0.99389	0.99391	0.99366	0.99196	0.99273	0.99349	0.99484	0.99486	0.99495	0.99506
100	0.99823	1.00330	1.00763	1.00763	1.00170	1.00220	0.99879	0.99495	0.99396	0.99394	0.99391	0.99393	0.99370	0.99237	0.99229	0.99364	0.99473	0.99486	0.99495	0.99506
101	0.99823	1.00330	1.00762	1.00763	1.00170	1.00219	0.99878	0.99494	0.99396	0.99395	0.99392	0.99394	0.99374	0.99361	0.99190	0.99305	0.99451	0.99487	0.99495	0.99505
102	0.99822	1.00329	1.00761	1.00763	1.00170	1.00219	0.99877	0.99494	0.99396	0.99395	0.99393	0.99396	0.99378	0.99367	0.99210	0.99329	0.99410	0.99487	0.99495	0.99504
103	0.99822	1.00329	1.00761	1.00763	1.00170	1.00219	0.99876	0.99493	0.99396	0.99395	0.99394	0.99398	0.99382	0.99373	0.99229	0.99323	0.99401	0.99489	0.99495	0.99504
104	0.99822	1.00329	1.00760	1.00763	1.00170	1.00218	0.99875	0.99493	0.99396	0.99395	0.99395	0.99400	0.99386	0.99379	0.99248	0.99331	0.99381	0.99491	0.99494	0.99504
105	0.99822	1.00329	1.00759	1.00763	1.00170	1.00218	0.99874	0.99493	0.99396	0.99395	0.99397	0.99402	0.99390	0.99385	0.99268	0.99320	0.99396	0.99482	0.99494	0.99503
106	0.99822	1.00329	1.00759	1.00763	1.00170	1.00217	0.99873	0.99492	0.99396	0.99395	0.99398	0.99403	0.99395	0.99391	0.99287	0.99339	0.99392	0.99465	0.99494	0.99502
107	0.99822	1.00328	1.00758	1.00763	1.00170	1.00217	0.99872	0.99492	0.99397	0.99395	0.99399	0.99405	0.99399	0.99397	0.99307	0.99366	0.99395	0.99437	0.99493	0.99501
108	0.99822	1.00328	1.00757	1.00763	1.00170	1.00217	0.99871	0.99491	0.99397	0.99396	0.99400	0.99407								

### Survivor Mortality Improvement Rates

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
16	0.97149	1.00879	0.98701	0.99702	0.99258	0.99320	0.99442	0.99396	0.99433	0.99351	0.99424	0.99381	0.99330	0.99315	0.99250	0.99272	0.99228	0.99294	0.99195	0.99240
17	0.97015	1.00879	0.98560	0.99660	0.99269	0.99276	0.99417	0.99494	0.99428	0.99463	0.99420	0.99432	0.99439	0.99305	0.99288	0.99283	0.99305	0.99228	0.99277	0.99249
18	0.96849	1.00691	0.98492	0.99595	0.99334	0.99208	0.99422	0.99490	0.99476	0.99467	0.99476	0.99486	0.99443	0.99358	0.99333	0.99365	0.99198	0.99306	0.99234	0.99269
19	0.96695	1.00362	0.98428	0.99492	0.99117	0.99075	0.99321	0.99456	0.99531	0.99535	0.99460	0.99564	0.99517	0.99387	0.99345	0.99366	0.99245	0.99289	0.99211	0.99323
20	0.96502	1.00024	0.98333	0.99374	0.98870	0.98980	0.99173	0.99396	0.99593	0.99551	0.99479	0.99644	0.99537	0.99465	0.99351	0.99363	0.99218	0.99321	0.99245	0.99305
21	0.96379	0.99753	0.98311	0.99279	0.98719	0.98807	0.99058	0.99427	0.99536	0.99624	0.99564	0.99620	0.99619	0.99492	0.99439	0.99367	0.99220	0.99362	0.99231	0.99291
22	0.96346	0.99717	0.98304	0.99225	0.98521	0.98721	0.99021	0.99348	0.99540	0.99629	0.99590	0.99650	0.99642	0.99518	0.99471	0.99388	0.99223	0.99362	0.99223	0.99282
23	0.96481	0.99996	0.98337	0.99213	0.98906	0.98249	0.99013	0.99316	0.99557	0.99582	0.99615	0.99659	0.99583	0.99541	0.99493	0.99410	0.99256	0.99313	0.99242	0.99292
24	0.96676	1.00484	0.98443	0.99264	0.96922	0.97475	0.99063	0.99356	0.99554	0.99596	0.99558	0.99575	0.99538	0.99429	0.99472	0.99390	0.99275	0.99290	0.99264	0.99317
25	0.96925	1.00987	0.98539	0.99291	0.96024	0.97650	0.99093	0.99298	0.99486	0.99536	0.99564	0.99525	0.99496	0.99425	0.99427	0.99412	0.99261	0.99334	0.99248	0.99270
26	0.97128	1.01422	0.98668	0.99339	0.95954	0.98018	0.99167	0.99264	0.99467	0.99487	0.99543	0.99482	0.99451	0.99436	0.99398	0.99372	0.99352	0.99247	0.99325	0.99249
27	0.97443	1.01710	0.98853	0.99436	0.99263	0.97923	0.99122	0.99304	0.99449	0.99473	0.99489	0.99455	0.99411	0.99412	0.99409	0.99388	0.99333	0.99279	0.99303	0.99285
28	0.97881	1.01801	0.99140	0.99600	0.99123	0.99445	0.97881	0.99297	0.99450	0.99434	0.99473	0.99490	0.99399	0.99389	0.99433	0.99348	0.99357	0.99274	0.99328	0.99256
29	0.98301	1.01818	0.99427	0.99787	1.00889	0.97818	0.97876	0.99324	0.99444	0.99427	0.99453	0.99491	0.99403	0.99414	0.99423	0.99375	0.99320	0.99297	0.99314	0.99288
30	0.98778	1.01717	0.99705	0.99969	0.99076	0.97434	0.97963	0.99308	0.99391	0.99452	0.99426	0.99463	0.99453	0.99409	0.99406	0.99375	0.99357	0.99335	0.99262	0.99317
31	0.99125	1.01622	0.99984	1.00125	1.00005	0.97057	0.98133	0.99374	0.99349	0.99440	0.99442	0.99464	0.99467	0.99369	0.99446	0.99352	0.99359	0.99342	0.99297	0.99306
32	0.99246	1.01590	1.00222	1.00227	0.99130	0.99018	0.98006	0.99377	0.99404	0.99392	0.99417	0.99463	0.99493	0.99367	0.99404	0.99388	0.99361	0.99333	0.99292	0.99316
33	0.99161	1.01621	1.00477	1.00308	0.97216	0.98874	0.99398	0.98163	0.99377	0.99396	0.99413	0.99464	0.99455	0.99378	0.99395	0.99356	0.99353	0.99338	0.99286	0.99343
34	0.98895	1.01671	1.00675	1.00346	0.98479	1.00102	0.98266	0.98167	0.99346	0.99364	0.99411	0.99453	0.99415	0.99385	0.99399	0.99355	0.99355	0.99341	0.99291	0.99342
35	0.98477	1.01330	1.01479	1.00362	0.98561	0.98767	0.98207	0.98236	0.99329	0.99328	0.99398	0.99417	0.99381	0.99386	0.99363	0.99357	0.99350	0.99350	0.99298	0.99347
36	0.98188	1.01085	1.02828	1.00330	0.98553	0.99396	0.97672	0.98451	0.99350	0.99305	0.99376	0.99367	0.99379	0.99380	0.99329	0.99330	0.99357	0.99355	0.99311	0.99346
37	0.97957	1.00993	1.01959	1.00269	0.98275	0.98594	0.98785	0.98459	0.99370	0.99293	0.99340	0.99348	0.99334	0.99356	0.99332	0.99329	0.99331	0.99359	0.99321	0.99355
38	0.97737	1.00181	1.01934	1.00157	0.98671	0.97898	0.98718	0.99216	0.98741	0.99280	0.99324	0.99343	0.99314	0.99359	0.99312	0.99311	0.99337	0.99362	0.99327	0.99367
39	0.97495	0.99863	1.02317	1.00010	0.97736	0.98215	0.99141	0.98818	0.98777	0.99282	0.99311	0.99306	0.99341	0.99318	0.99343	0.99320	0.99320	0.99371	0.99339	0.99365
40	0.97328	0.99322	1.02348	0.99868	0.98166	0.98230	0.98671	0.98774	0.98844	0.99285	0.99302	0.99299	0.99318	0.99327	0.99338	0.99311	0.99331	0.99382	0.99328	0.99378
41	0.97218	0.99125	1.01932	0.99727	0.98150	0.98218	0.98910	0.98613	0.98894	0.99323	0.99285	0.99287	0.99333	0.99307	0.99361	0.99307	0.99326	0.99398	0.99324	0.99371
42	0.97200	0.98612	1.02042	0.99576	0.98206	0.98158	0.98587	0.99063	0.98877	0.99317	0.99277	0.99289	0.99318	0.99305	0.99358	0.99327	0.99326	0.99367	0.99342	0.99364
43	0.97256	0.98647	1.01168	0.99409	0.98196	0.98371	0.98367	0.99047	0.99266	0.98972	0.99267	0.99275	0.99319	0.99291	0.99357	0.99306	0.99322	0.99379	0.99340	0.99354
44	0.97366	0.98415	1.00795	0.99249	0.98433	0.98077	0.98499	0.99219	0.99099	0.98989	0.99253	0.99267	0.99308	0.99294	0.99338	0.99311	0.99321	0.99359	0.99337	0.99353
45	0.97495	0.98680	1.00274	0.99113	0.98236	0.98318	0.98537	0.99038	0.99068	0.99019	0.99243	0.99262	0.99301	0.99276	0.99329	0.99319	0.99311	0.99344	0.99325	0.99355
46	0.97640	0.98427	0.99908	0.99001	0.98253	0.98418	0.98572	0.99151	0.98978	0.99063	0.99247	0.99262	0.99294	0.99285	0.99304	0.99322	0.99312	0.99343	0.99323	0.99367
47	0.97810	0.98654	0.99350	0.98898	0.98304	0.98510	0.98609	0.99046	0.99152	0.99053	0.99262	0.99262	0.99288	0.99279	0.99320	0.99324	0.99313	0.99337	0.99348	0.99360
48	0.97979	0.98493	0.99365	0.98807	0.98343	0.98582	0.98790	0.98969	0.99173	0.99251	0.99099	0.99276	0.99288	0.99289	0.99324	0.99325	0.99328	0.99347	0.99357	0.99380
49	0.98162	0.98518	0.99226	0.98733	0.98473	0.98766	0.98752	0.99045	0.99258	0.99204	0.99120	0.99285	0.99298	0.99308	0.99329	0.99339	0.99341	0.99354	0.99373	0.99382
50	0.98331	0.98442	0.99276	0.98678	0.98652	0.98766	0.98931	0.99084	0.99196	0.99201	0.99164	0.99288	0.99298	0.99324	0.99331	0.99351	0.99358	0.99370	0.99386	0.99392
51	0.98494	0.98452	0.99309	0.98650	0.98649	0.98853	0.99041	0.99119	0.99242	0.99172	0.99194	0.99299	0.99304	0.99328	0.99340	0.99356	0.99371	0.99369	0.99391	0.99405
52	0.98668	0.98476	0.99316	0.98660	0.98648	0.98954	0.99120	0.99145	0.99207	0.99236	0.99197	0.99307	0.99302	0.99333	0.99344	0.99356	0.99377	0.99382	0.99398	0.99402
53	0.98836	0.98482	0.99313	0.98712	0.98833	0.99002	0.99167	0.99251	0.99186	0.99239	0.99293	0.99219	0.99309	0.99329	0.99343	0.99359	0.99383	0.99380	0.99400	0.99410
54	0.98996	0.98533	0.99269	0.98784	0.98831	0.99076	0.99265	0.99263	0.99217	0.99275	0.99261	0.99222	0.99310	0.99334	0.99341	0.99354	0.99380	0.99382	0.99398	0.99413
55	0.99146	0.98639	0.99255	0.98868	0.98903	0.99173	0.99297	0.99354	0.99241	0.99252	0.99249	0.99241	0.99312	0.99331	0.99346	0.99357	0.99385	0.99385	0.99399	0.99410
56	0.99274	0.98685	0.99297	0.98945	0.99012	0.99196	0.99354	0.99418	0.99257	0.99274	0.99232	0.99255	0.99319	0.99332	0.99343	0.99362	0.99385	0.99390	0.99400	0.99414
57	0.99388	0.98705	0.99291	0.99009	0.99134	0.99204	0.99427	0.99447	0.99266	0.99248	0.99257	0.99255	0.99310	0.99328	0.99345	0.99356	0.99380	0.99387	0.99399	0.99410
58	0.99495	0.98753	0.99285	0.99051	0.99138	0.99328	0.99464	0.99432	0.99323	0.99225	0.99247	0.99298	0.99252	0.99318	0.99335	0.99350	0.99369	0.99379	0.99392	0.99404
59	0.99587	0.98787	0.99292	0.99087	0.99222	0.99349	0.99500	0.99451	0.99321	0.99226	0.99257	0.99269	0.99245	0.99309	0.99323	0.99342	0.99359	0.99372	0.99382	0.99395
60	0.99675	0.98796	0.99308	0.99108	0.99281	0.99385	0.99536	0.99430	0.99356	0.99226	0.99231	0.99250	0.99241	0.99300	0.99310	0.99331	0.99348	0.99362	0.99373	0.99386

**Survivor Mortality Improvement Rates (cont'd)**

Age	1980-84	1985-89	1990-94	1995-99	2000-04	2005-09	2010-14	2015-19	2020-24	2025-29	2030-34	2035-39	2040-44	2045-49	2050-54	2055-59	2060-64	2065-69	2070-74	2075-79
61	0.99738	0.98796	0.99342	0.99138	0.99322	0.99448	0.99528	0.99429	0.99385	0.99232	0.99234	0.99226	0.99250	0.99291	0.99307	0.99327	0.99341	0.99358	0.99369	0.99383
62	0.99755	0.98876	0.99385	0.99207	0.99408	0.99559	0.99533	0.99460	0.99409	0.99249	0.99232	0.99249	0.99256	0.99296	0.99313	0.99331	0.99348	0.99362	0.99377	0.99387
63	0.99726	0.99029	0.99501	0.99314	0.99551	0.99636	0.99628	0.99484	0.99415	0.99329	0.99246	0.99268	0.99308	0.99282	0.99328	0.99349	0.99361	0.99376	0.99392	0.99402
64	0.99678	0.99222	0.99592	0.99435	0.99677	0.99771	0.99665	0.99509	0.99454	0.99376	0.99278	0.99305	0.99321	0.99303	0.99349	0.99367	0.99380	0.99393	0.99410	0.99418
65	0.99609	0.99398	0.99711	0.99553	0.99795	0.99886	0.99708	0.99536	0.99468	0.99344	0.99309	0.99316	0.99333	0.99332	0.99366	0.99382	0.99398	0.99409	0.99423	0.99433
66	0.99555	0.99500	0.99779	0.99637	0.99876	0.99955	0.99745	0.99522	0.99486	0.99492	0.99335	0.99333	0.99332	0.99356	0.99377	0.99393	0.99407	0.99421	0.99434	0.99444
67	0.99548	0.99494	0.99828	0.99662	0.99909	0.99983	0.99768	0.99492	0.99510	0.99517	0.99353	0.99337	0.99350	0.99364	0.99381	0.99400	0.99413	0.99428	0.99441	0.99451
68	0.99592	0.99368	0.99862	0.99625	0.99888	0.99982	0.99723	0.99498	0.99509	0.99505	0.99411	0.99334	0.99353	0.99386	0.99362	0.99402	0.99416	0.99429	0.99443	0.99454
69	0.99655	0.99173	0.99854	0.99557	0.99838	0.99939	0.99700	0.99459	0.99499	0.99506	0.99441	0.99340	0.99357	0.99378	0.99365	0.99401	0.99415	0.99428	0.99441	0.99455
70	0.99704	0.98957	0.99851	0.99488	0.99782	0.99896	0.99674	0.99424	0.99486	0.99499	0.99480	0.99343	0.99350	0.99369	0.99370	0.99399	0.99413	0.99427	0.99441	0.99453
71	0.99723	0.98841	0.99863	0.99439	0.99736	0.99858	0.99643	0.99406	0.99451	0.99498	0.99510	0.99351	0.99347	0.99354	0.99380	0.99395	0.99411	0.99424	0.99440	0.99452
72	0.99706	0.98758	0.99876	0.99416	0.99692	0.99826	0.99615	0.99392	0.99414	0.99508	0.99526	0.99359	0.99341	0.99357	0.99381	0.99388	0.99409	0.99423	0.99439	0.99452
73	0.99657	0.98768	0.99868	0.99420	0.99660	0.99790	0.99603	0.99351	0.99408	0.99506	0.99508	0.99414	0.99336	0.99355	0.99391	0.99375	0.99407	0.99424	0.99437	0.99452
74	0.99587	0.98835	0.99853	0.99440	0.99631	0.99764	0.99580	0.99336	0.99374	0.99497	0.99508	0.99447	0.99342	0.99357	0.99385	0.99374	0.99406	0.99422	0.99438	0.99453
75	0.99524	0.98900	0.99856	0.99468	0.99612	0.99743	0.99570	0.99333	0.99352	0.99491	0.99511	0.99494	0.99353	0.99357	0.99381	0.99384	0.99411	0.99425	0.99441	0.99455
76	0.99462	0.98935	0.99883	0.99492	0.99593	0.99724	0.99558	0.99326	0.99344	0.99465	0.99518	0.99529	0.99367	0.99360	0.99372	0.99400	0.99410	0.99428	0.99442	0.99458
77	0.99376	0.98963	0.99880	0.99502	0.99558	0.99698	0.99537	0.99302	0.99321	0.99427	0.99525	0.99542	0.99371	0.99351	0.99370	0.99397	0.99399	0.99423	0.99438	0.99455
78	0.99268	0.98909	0.99904	0.99497	0.99525	0.99667	0.99497	0.99273	0.99259	0.99396	0.99509	0.99511	0.99411	0.99331	0.99352	0.99391	0.99376	0.99410	0.99427	0.99445
79	0.99156	0.98938	0.99914	0.99487	0.99495	0.99635	0.99461	0.99228	0.99214	0.99336	0.99482	0.99493	0.99435	0.99317	0.99335	0.99371	0.99360	0.99396	0.99415	0.99433
80	0.99066	0.98895	0.99966	0.99495	0.99477	0.99620	0.99429	0.99187	0.99170	0.99276	0.99442	0.99470	0.99457	0.99302	0.99310	0.99342	0.99351	0.99379	0.99400	0.99419
81	0.99008	0.98886	0.99998	0.99517	0.99470	0.99621	0.99416	0.99168	0.99145	0.99244	0.99397	0.99463	0.99479	0.99302	0.99299	0.99320	0.99358	0.99367	0.99393	0.99412
82	0.98972	0.98885	1.00055	0.99536	0.99473	0.99615	0.99421	0.99185	0.99156	0.99248	0.99383	0.99488	0.99511	0.99329	0.99312	0.99336	0.99373	0.99371	0.99402	0.99420
83	0.98962	0.98813	1.00122	0.99552	0.99470	0.99617	0.99445	0.99230	0.99216	0.99266	0.99414	0.99529	0.99529	0.99426	0.99348	0.99368	0.99408	0.99392	0.99427	0.99443
84	0.98970	0.98792	1.00194	0.99571	0.99475	0.99624	0.99477	0.99296	0.99278	0.99316	0.99438	0.99568	0.99569	0.99512	0.99397	0.99408	0.99440	0.99427	0.99456	0.99470
85	0.98993	0.98743	1.00287	0.99603	0.99488	0.99638	0.99513	0.99352	0.99336	0.99365	0.99458	0.99592	0.99604	0.99583	0.99440	0.99439	0.99461	0.99463	0.99480	0.99491
86	0.99026	0.98761	1.00339	0.99649	0.99522	0.99667	0.99548	0.99393	0.99376	0.99396	0.99474	0.99587	0.99627	0.99625	0.99472	0.99460	0.99470	0.99495	0.99491	0.99505
87	0.99069	0.98799	1.00401	0.99710	0.99577	0.99713	0.99576	0.99415	0.99395	0.99406	0.99472	0.99570	0.99635	0.99641	0.99493	0.99469	0.99481	0.99506	0.99493	0.99511
88	0.99118	0.98893	1.00397	0.99782	0.99627	0.99764	0.99607	0.99424	0.99394	0.99411	0.99446	0.99548	0.99624	0.99614	0.99534	0.99471	0.99480	0.99507	0.99490	0.99510
89	0.99174	0.98975	1.00426	0.99860	0.99701	0.99823	0.99635	0.99422	0.99388	0.99399	0.99426	0.99509	0.99597	0.99593	0.99553	0.99470	0.99475	0.99499	0.99487	0.99506
90	0.99234	0.99077	1.00440	0.99942	0.99772	0.99882	0.99658	0.99417	0.99374	0.99386	0.99409	0.99473	0.99562	0.99572	0.99559	0.99467	0.99466	0.99485	0.99487	0.99500
91	0.99299	0.99181	1.00450	1.00023	0.99840	0.99942	0.99683	0.99412	0.99362	0.99373	0.99393	0.99447	0.99523	0.99553	0.99555	0.99464	0.99458	0.99470	0.99491	0.99490
92	0.99367	0.99284	1.00458	1.00102	0.99899	1.00004	0.99709	0.99408	0.99354	0.99365	0.99379	0.99424	0.99492	0.99536	0.99545	0.99463	0.99453	0.99465	0.99488	0.99481
93	0.99437	0.99382	1.00467	1.00177	0.99968	1.00051	0.99733	0.99411	0.99351	0.99358	0.99376	0.99403	0.99469	0.99519	0.99521	0.99481	0.99450	0.99461	0.99483	0.99477
94	0.99509	0.99473	1.00476	1.00247	1.00026	1.00103	0.99760	0.99419	0.99353	0.99360	0.99375	0.99395	0.99448	0.99503	0.99507	0.99492	0.99453	0.99460	0.99480	0.99477
95	0.99566	0.99546	1.00483	1.00303	1.00072	1.00143	0.99781	0.99423	0.99355	0.99360	0.99375	0.99392	0.99432	0.99486	0.99498	0.99497	0.99455	0.99459	0.99475	0.99481
96	0.99610	0.99601	1.00489	1.00346	1.00111	1.00172	0.99798	0.99427	0.99356	0.99361	0.99375	0.99390	0.99423	0.99468	0.99490	0.99498	0.99456	0.99458	0.99469	0.99487
97	0.99639	0.99637	1.00492	1.00375	1.00135	1.00188	0.99811	0.99430	0.99356	0.99361	0.99375	0.99387	0.99415	0.99455	0.99484	0.99495	0.99459	0.99458	0.99470	0.99487
98	0.99653	0.99656	1.00494	1.00389	1.00146	1.00201	0.99814	0.99431	0.99357	0.99362	0.99374	0.99388	0.99407	0.99445	0.99477	0.99484	0.99470	0.99459	0.99469	0.99486
99	0.99653	0.99656	1.00495	1.00389	1.00145	1.00201	0.99816	0.99431	0.99358	0.99362	0.99375	0.99387	0.99403	0.99435	0.99469	0.99478	0.99476	0.99460	0.99469	0.99485
100	0.99653	0.99656	1.00495	1.00389	1.00145	1.00201	0.99816	0.99431	0.99357	0.99362	0.99374	0.99386	0.99401	0.99427	0.99461	0.99473	0.99479	0.99462	0.99469	0.99482
101	0.99653	0.99655	1.00495	1.00389	1.00143	1.00202	0.99816	0.99431	0.99357	0.99362	0.99374	0.99386	0.99399	0.99422	0.99451	0.99469	0.99479	0.99463	0.99468	0.99479
102	0.99653	0.99655	1.00496	1.00389	1.00143	1.00202	0.99814	0.99433	0.99358	0.99362	0.99374	0.99386	0.99398	0.99418	0.99444	0.99465	0.99477	0.99464	0.99468	0.99479
103	0.99653	0.99655	1.00496	1.00389	1.00118	1.00202	0.99815	0.99432	0.99357	0.99362	0.99374	0.99385	0.99398	0.99413	0.99438	0.99460	0.99470	0.99469	0.99468	0.99479
104	0.99653	0.99655	1.00497	1.00389	1.00143	1.00201	0.99815	0.99432	0.99357	0.99362	0.99374	0.99385	0.99398	0.99411	0.99432	0.99455	0.99466	0.99472	0.99469	0.99478
105	0.99653	0.99655	1.00497	1.00389	1.00143	1.00201	0.99815	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99410	0.99428	0.99450	0.99462	0.99472	0.99469	0.99478
106	0.99653	0.99654	1.00497	1.00389	1.00057	1.00200	0.99815	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99410	0.99426	0.99444	0.99459	0.99471	0.99469	0.99477
107	0.99653	0.99654	1.00498	1.00389	1.00083	1.00200	0.99816	0.99432	0.99358	0.99362	0.99374	0.99385	0.99397	0.99409	0.99423	0.99441	0.99457	0.99468	0.99470	0.99477
108	0.99653	0.99654	1.00498	1.00389	1.00045	1.00193	0.99815	0.99433	0.99357	0.99362	0.99374	0.99385								



APPENDIX K

PROJECTIONS INCLUDING RESERVISTS (100 YEARS)

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**TOTAL ACTIVE DUTY PERSONNEL ON SEPTEMBER 30  
OF EACH FISCAL YEAR**

<u>Fiscal Year</u>	<u>Officers</u>	<u>Enlisted</u>	<u>Total</u>
2000	229,810	1,207,430	1,437,240
2001	229,992	1,205,970	1,435,962
2002	229,309	1,207,409	1,436,718
2003	229,713	1,204,875	1,434,588
2004	230,212	1,204,593	1,434,805
2005	230,508	1,203,314	1,433,822
2006	230,783	1,201,077	1,431,860
2007	231,118	1,200,929	1,432,047
2008	231,118	1,200,929	1,432,047
2009	231,118	1,200,929	1,432,047
2010	231,118	1,200,929	1,432,047
2011	231,118	1,200,929	1,432,047
2012	231,118	1,200,929	1,432,047
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2017	231,118	1,200,929	1,432,047
2018	231,118	1,200,929	1,432,047
2019	231,118	1,200,929	1,432,047
2020	231,118	1,200,929	1,432,047
2021	231,118	1,200,929	1,432,047
2022	231,118	1,200,929	1,432,047
2023	231,118	1,200,929	1,432,047
2024	231,118	1,200,929	1,432,047
2025	231,118	1,200,929	1,432,047
2026	231,118	1,200,929	1,432,047
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2035	231,118	1,200,929	1,432,047
2036	231,118	1,200,929	1,432,047
2037	231,118	1,200,929	1,432,047
2038	231,118	1,200,929	1,432,047
2039	231,118	1,200,929	1,432,047
2040	231,118	1,200,929	1,432,047
2041	231,118	1,200,929	1,432,047
2042	231,118	1,200,929	1,432,047
2043	231,118	1,200,929	1,432,047
2044	231,118	1,200,929	1,432,047
2045	231,118	1,200,929	1,432,047
2046	231,118	1,200,929	1,432,047
2047	231,118	1,200,929	1,432,047
2048	231,118	1,200,929	1,432,047
2049	231,118	1,200,929	1,432,047

\*Future mortality improvement is assumed.

**TOTAL ACTIVE DUTY PERSONNEL ON SEPTEMBER 30  
OF EACH FISCAL YEAR (continued)**

<u>Fiscal Year</u>	<u>Officers</u>	<u>Enlisted</u>	<u>Total</u>
2050	231,118	1,200,929	1,432,047
2051	231,118	1,200,929	1,432,047
2052	231,118	1,200,929	1,432,047
2053	231,118	1,200,929	1,432,047
2054	231,118	1,200,929	1,432,047
2055	231,118	1,200,929	1,432,047
2056	231,118	1,200,929	1,432,047
2057	231,118	1,200,929	1,432,047
2058	231,118	1,200,929	1,432,047
2059	231,118	1,200,929	1,432,047
2060	231,118	1,200,929	1,432,047
2061	231,118	1,200,929	1,432,047
2062	231,118	1,200,929	1,432,047
2063	231,118	1,200,929	1,432,047
2064	231,118	1,200,929	1,432,047
2065	231,118	1,200,929	1,432,047
2066	231,118	1,200,929	1,432,047
2067	231,118	1,200,929	1,432,047
2068	231,118	1,200,929	1,432,047
2069	231,118	1,200,929	1,432,047
2070	231,118	1,200,929	1,432,047
2071	231,118	1,200,929	1,432,047
2072	231,118	1,200,929	1,432,047
2073	231,118	1,200,929	1,432,047
2074	231,118	1,200,929	1,432,047
2075	231,118	1,200,929	1,432,047
2076	231,118	1,200,929	1,432,047
2077	231,118	1,200,929	1,432,047
2078	231,118	1,200,929	1,432,047
2079	231,118	1,200,929	1,432,047
2080	231,118	1,200,929	1,432,047
2081	231,118	1,200,929	1,432,047
2082	231,118	1,200,929	1,432,047
2083	231,118	1,200,929	1,432,047
2084	231,118	1,200,929	1,432,047
2085	231,118	1,200,929	1,432,047
2086	231,118	1,200,929	1,432,047
2087	231,118	1,200,929	1,432,047
2088	231,118	1,200,929	1,432,047
2089	231,118	1,200,929	1,432,047
2090	231,118	1,200,929	1,432,047
2091	231,118	1,200,929	1,432,047
2092	231,118	1,200,929	1,432,047
2093	231,118	1,200,929	1,432,047
2094	231,118	1,200,929	1,432,047
2095	231,118	1,200,929	1,432,047
2096	231,118	1,200,929	1,432,047
2097	231,118	1,200,929	1,432,047
2098	231,118	1,200,929	1,432,047
2099	231,118	1,200,929	1,432,047

\*Future mortality improvement is assumed.

**TOTAL ACTIVE DUTY GROSS PAY FOR EACH FISCAL YEAR**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Total</u>
2001	\$11,376,211	\$25,438,294	\$36,814,505
2002	\$11,878,185	\$26,630,769	\$38,508,955
2003	\$12,326,787	\$27,657,143	\$39,983,929
2004	\$12,808,871	\$28,644,708	\$41,453,580
2005	\$13,307,577	\$29,648,177	\$42,955,754
2006	\$13,821,876	\$30,678,627	\$44,500,503
2007	\$14,351,433	\$31,752,377	\$46,103,810
2008	\$14,888,839	\$32,906,639	\$47,795,478
2009	\$15,433,496	\$34,130,410	\$49,563,906
2010	\$15,998,456	\$35,418,847	\$51,417,302
2011	\$16,526,276	\$36,635,013	\$53,161,289
2012	\$17,071,744	\$37,903,217	\$54,974,960
2013	\$17,635,507	\$39,219,063	\$56,854,570
2014	\$18,228,103	\$40,604,231	\$58,832,333
2015	\$18,852,740	\$42,074,136	\$60,926,876
2016	\$19,508,068	\$43,601,015	\$63,109,083
2017	\$20,191,441	\$45,150,396	\$65,341,837
2018	\$20,908,993	\$46,757,224	\$67,666,217
2019	\$21,666,195	\$48,449,206	\$70,115,401
2020	\$22,459,043	\$50,192,661	\$72,651,703
2021	\$23,277,459	\$51,978,969	\$75,256,428
2022	\$24,121,780	\$53,835,202	\$77,956,982
2023	\$25,001,859	\$55,751,408	\$80,753,267
2024	\$25,912,677	\$57,727,529	\$83,640,206
2025	\$26,854,570	\$59,766,449	\$86,621,020
2026	\$27,831,214	\$61,871,411	\$89,702,625
2027	\$28,837,362	\$64,036,549	\$92,873,911
2028	\$29,871,827	\$66,271,063	\$96,142,890
2029	\$30,937,685	\$68,584,672	\$99,522,356
2030	\$32,033,791	\$70,975,771	\$103,009,562
2031	\$33,156,673	\$73,445,654	\$106,602,326
2032	\$34,306,758	\$76,001,793	\$110,308,550
2033	\$35,491,142	\$78,646,501	\$114,137,643
2034	\$36,711,133	\$81,384,484	\$118,095,616
2035	\$37,970,484	\$84,221,638	\$122,192,122
2036	\$39,271,526	\$87,161,478	\$126,433,004
2037	\$40,616,617	\$90,203,154	\$130,819,771
2038	\$42,010,774	\$93,351,802	\$135,362,576
2039	\$43,457,572	\$96,615,594	\$140,073,166
2040	\$44,960,310	\$99,996,477	\$144,956,787
2041	\$46,520,449	\$103,496,808	\$150,017,257
2042	\$48,138,388	\$107,122,371	\$155,260,759
2043	\$49,817,852	\$110,876,864	\$160,694,715
2044	\$51,561,470	\$114,763,799	\$166,325,269
2045	\$53,371,027	\$118,787,838	\$172,158,864
2046	\$55,249,229	\$122,953,452	\$178,202,680
2047	\$57,196,825	\$127,263,843	\$184,460,668
2048	\$59,214,892	\$131,724,282	\$190,939,174
2049	\$61,306,190	\$136,340,925	\$197,647,115
2050	\$63,471,902	\$141,118,420	\$204,590,323

\*Future mortality improvement is assumed.

**TOTAL ACTIVE DUTY GROSS PAY FOR EACH FISCAL YEAR (continued)**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Officer</u>	<u>Enlisted</u>	<u>Total</u>
2051	\$65,712,615	\$146,061,700	\$211,774,315
2052	\$68,029,256	\$151,177,152	\$219,206,408
2053	\$70,424,915	\$156,470,663	\$226,895,579
2054	\$72,901,595	\$161,948,371	\$234,849,966
2055	\$75,461,649	\$167,617,108	\$243,078,757
2056	\$78,108,009	\$173,483,872	\$251,591,881
2057	\$80,843,140	\$179,555,123	\$260,398,263
2058	\$83,670,449	\$185,838,170	\$269,508,618
2059	\$86,593,866	\$192,341,133	\$278,934,999
2060	\$89,617,416	\$199,071,749	\$288,689,166
2061	\$92,744,957	\$206,037,849	\$298,782,806
2062	\$95,980,080	\$213,248,037	\$309,228,117
2063	\$99,327,541	\$220,711,002	\$320,038,544
2064	\$102,792,192	\$228,435,556	\$331,227,748
2065	\$106,378,772	\$236,430,961	\$342,809,733
2066	\$110,092,323	\$244,706,785	\$354,799,108
2067	\$113,937,599	\$253,272,629	\$367,210,228
2068	\$117,919,522	\$262,138,613	\$380,058,135
2069	\$122,043,337	\$271,315,377	\$393,358,714
2070	\$126,314,180	\$280,813,696	\$407,127,877
2071	\$130,736,868	\$290,644,642	\$421,381,510
2072	\$135,316,174	\$300,819,865	\$436,136,039
2073	\$140,057,565	\$311,351,359	\$451,408,924
2074	\$144,966,433	\$322,251,483	\$467,217,916
2075	\$150,048,182	\$333,533,106	\$483,581,288
2076	\$155,308,490	\$345,209,583	\$500,518,074
2077	\$160,753,014	\$357,294,618	\$518,047,633
2078	\$166,387,715	\$369,802,463	\$536,190,179
2079	\$172,218,998	\$382,747,971	\$554,966,968
2080	\$178,253,487	\$396,146,456	\$574,399,943
2081	\$184,497,971	\$410,013,685	\$594,511,655
2082	\$190,959,383	\$424,366,041	\$615,325,424
2083	\$197,645,284	\$439,220,563	\$636,865,847
2084	\$204,563,627	\$454,594,856	\$659,158,483
2085	\$211,722,631	\$470,507,148	\$682,229,780
2086	\$219,130,927	\$486,976,323	\$706,107,249
2087	\$226,797,431	\$504,021,881	\$730,819,312
2088	\$234,731,442	\$521,664,021	\$756,395,463
2089	\$242,942,670	\$539,923,675	\$782,866,345
2090	\$251,441,182	\$558,822,479	\$810,263,661
2091	\$260,237,289	\$578,382,807	\$838,620,096
2092	\$269,341,551	\$598,627,833	\$867,969,383
2093	\$278,765,024	\$619,581,539	\$898,346,563
2094	\$288,519,125	\$641,268,728	\$929,787,853
2095	\$298,615,560	\$663,715,079	\$962,330,639
2096	\$309,066,414	\$686,947,171	\$996,013,585
2097	\$319,884,084	\$710,992,497	\$1,030,876,581
2098	\$331,081,353	\$735,879,515	\$1,066,960,868
2099	\$342,671,456	\$761,637,696	\$1,104,309,152

\*Future mortality improvement is assumed.

## NONRETIRED RESERVISTS

(Dollar Amounts in Thousands)

Fiscal Year	People at Year End			Dollars During Year		
	Officers	Enlisted	Total	Officers	Enlisted	Total
2001	122,052	675,789	797,841	\$1,306,599	\$2,800,513	\$4,107,112
2002	122,312	676,630	798,942	\$1,370,445	\$2,917,667	\$4,288,113
2003	122,109	675,873	797,982	\$1,415,709	\$3,024,993	\$4,440,702
2004	122,077	675,314	797,391	\$1,462,038	\$3,133,447	\$4,595,486
2005	121,915	674,008	795,923	\$1,511,618	\$3,245,485	\$4,757,103
2006	121,774	672,823	794,597	\$1,562,681	\$3,359,591	\$4,922,272
2007	121,876	672,774	794,650	\$1,616,661	\$3,478,061	\$5,094,722
2008	121,876	672,774	794,650	\$1,674,795	\$3,603,133	\$5,277,928
2009	121,876	672,774	794,650	\$1,735,797	\$3,734,825	\$5,470,622
2010	121,876	672,774	794,650	\$1,800,257	\$3,873,609	\$5,673,866
2011	121,876	672,774	794,650	\$1,860,897	\$4,004,054	\$5,864,951
2012	121,876	672,774	794,650	\$1,924,291	\$4,140,382	\$6,064,673
2013	121,876	672,774	794,650	\$1,990,253	\$4,282,367	\$6,272,619
2014	121,876	672,774	794,650	\$2,058,881	\$4,430,149	\$6,489,030
2015	121,876	672,774	794,650	\$2,130,146	\$4,583,458	\$6,713,604
2016	121,876	672,774	794,650	\$2,204,018	\$4,741,912	\$6,945,929
2017	121,876	672,774	794,650	\$2,280,628	\$4,905,633	\$7,186,261
2018	121,876	672,774	794,650	\$2,359,996	\$5,074,929	\$7,434,926
2019	121,876	672,774	794,650	\$2,442,153	\$5,249,987	\$7,692,140
2020	121,876	672,774	794,650	\$2,527,078	\$5,430,603	\$7,957,681
2021	121,876	672,774	794,650	\$2,614,782	\$5,616,904	\$8,231,686
2022	121,876	672,774	794,650	\$2,705,435	\$5,809,476	\$8,514,912
2023	121,876	672,774	794,650	\$2,799,210	\$6,008,816	\$8,808,026
2024	121,876	672,774	794,650	\$2,896,314	\$6,215,630	\$9,111,944
2025	121,876	672,774	794,650	\$2,997,149	\$6,430,644	\$9,427,794
2026	121,876	672,774	794,650	\$3,101,886	\$6,654,214	\$9,756,101
2027	121,876	672,774	794,650	\$3,210,537	\$6,886,428	\$10,096,965
2028	121,876	672,774	794,650	\$3,323,196	\$7,127,340	\$10,450,536
2029	121,876	672,774	794,650	\$3,439,937	\$7,377,012	\$10,816,949
2030	121,876	672,774	794,650	\$3,560,830	\$7,635,562	\$11,196,392
2031	121,876	672,774	794,650	\$3,685,996	\$7,903,358	\$11,589,354
2032	121,876	672,774	794,650	\$3,815,587	\$8,180,946	\$11,996,533
2033	121,876	672,774	794,650	\$3,949,651	\$8,468,648	\$12,418,300
2034	121,876	672,774	794,650	\$4,088,281	\$8,766,472	\$12,854,754
2035	121,876	672,774	794,650	\$4,231,661	\$9,074,550	\$13,306,211
2036	121,876	672,774	794,650	\$4,379,960	\$9,393,244	\$13,773,204
2037	121,876	672,774	794,650	\$4,533,334	\$9,722,950	\$14,256,284
2038	121,876	672,774	794,650	\$4,691,945	\$10,063,991	\$14,755,936
2039	121,876	672,774	794,650	\$4,856,011	\$10,416,766	\$15,272,777
2040	121,876	672,774	794,650	\$5,025,791	\$10,781,714	\$15,807,506
2041	121,876	672,774	794,650	\$5,201,532	\$11,159,284	\$16,360,816
2042	121,876	672,774	794,650	\$5,383,452	\$11,549,940	\$16,933,392
2043	121,876	672,774	794,650	\$5,571,762	\$11,954,198	\$17,525,959
2044	121,876	672,774	794,650	\$5,766,681	\$12,372,601	\$18,139,283
2045	121,876	672,774	794,650	\$5,968,441	\$12,805,643	\$18,774,084
2046	121,876	672,774	794,650	\$6,177,279	\$13,253,813	\$19,431,092
2047	121,876	672,774	794,650	\$6,393,442	\$13,717,647	\$20,111,090
2048	121,876	672,774	794,650	\$6,617,184	\$14,197,699	\$20,814,883
2049	121,876	672,774	794,650	\$6,848,767	\$14,694,539	\$21,543,307
2050	121,876	672,774	794,650	\$7,088,464	\$15,208,761	\$22,297,225

\*This projection includes reservists.

**NONRETIRED RESERVISTS (continued)**

(Dollar Amounts in Thousands)

Fiscal Year	People at Year End			Dollars During Year		
	Officers	Enlisted	Total	Officers	Enlisted	Total
2051	121,876	672,774	794,650	\$7,336,555	\$15,740,979	\$23,077,534
2052	121,876	672,774	794,650	\$7,593,334	\$16,291,826	\$23,885,160
2053	121,876	672,774	794,650	\$7,859,103	\$16,861,957	\$24,721,060
2054	121,876	672,774	794,650	\$8,134,176	\$17,452,047	\$25,586,223
2055	121,876	672,774	794,650	\$8,418,878	\$18,062,795	\$26,481,673
2056	121,876	672,774	794,650	\$8,713,546	\$18,694,927	\$27,408,472
2057	121,876	672,774	794,650	\$9,018,528	\$19,349,189	\$28,367,716
2058	121,876	672,774	794,650	\$9,334,185	\$20,026,357	\$29,360,542
2059	121,876	672,774	794,650	\$9,660,890	\$20,727,234	\$30,388,124
2060	121,876	672,774	794,650	\$9,999,030	\$21,452,648	\$31,451,678
2061	121,876	672,774	794,650	\$10,349,005	\$22,203,460	\$32,552,464
2062	121,876	672,774	794,650	\$10,711,229	\$22,980,556	\$33,691,785
2063	121,876	672,774	794,650	\$11,086,130	\$23,784,858	\$34,870,988
2064	121,876	672,774	794,650	\$11,474,153	\$24,617,316	\$36,091,469
2065	121,876	672,774	794,650	\$11,875,755	\$25,478,916	\$37,354,671
2066	121,876	672,774	794,650	\$12,291,411	\$26,370,678	\$38,662,089
2067	121,876	672,774	794,650	\$12,721,615	\$27,293,656	\$40,015,271
2068	121,876	672,774	794,650	\$13,166,874	\$28,248,942	\$41,415,815
2069	121,876	672,774	794,650	\$13,627,715	\$29,237,665	\$42,865,380
2070	121,876	672,774	794,650	\$14,104,685	\$30,260,996	\$44,365,681
2071	121,876	672,774	794,650	\$14,598,348	\$31,320,144	\$45,918,491
2072	121,876	672,774	794,650	\$15,109,288	\$32,416,362	\$47,525,649
2073	121,876	672,774	794,650	\$15,638,110	\$33,550,947	\$49,189,058
2074	121,876	672,774	794,650	\$16,185,442	\$34,725,243	\$50,910,684
2075	121,876	672,774	794,650	\$16,751,929	\$35,940,638	\$52,692,567
2076	121,876	672,774	794,650	\$17,338,244	\$37,198,570	\$54,536,814
2077	121,876	672,774	794,650	\$17,945,081	\$38,500,529	\$56,445,610
2078	121,876	672,774	794,650	\$18,573,157	\$39,848,055	\$58,421,212
2079	121,876	672,774	794,650	\$19,223,216	\$41,242,743	\$60,465,959
2080	121,876	672,774	794,650	\$19,896,028	\$42,686,244	\$62,582,271
2081	121,876	672,774	794,650	\$20,592,388	\$44,180,266	\$64,772,654
2082	121,876	672,774	794,650	\$21,313,121	\$45,726,577	\$67,039,699
2083	121,876	672,774	794,650	\$22,059,081	\$47,327,009	\$69,386,090
2084	121,876	672,774	794,650	\$22,831,149	\$48,983,456	\$71,814,604
2085	121,876	672,774	794,650	\$23,630,239	\$50,697,878	\$74,328,117
2086	121,876	672,774	794,650	\$24,457,298	\$52,472,304	\$76,929,601
2087	121,876	672,774	794,650	\$25,313,304	\$54,308,834	\$79,622,138
2088	121,876	672,774	794,650	\$26,199,270	\$56,209,644	\$82,408,913
2089	121,876	672,774	794,650	\$27,116,245	\$58,176,981	\$85,293,226
2090	121,876	672,774	794,650	\$28,065,314	\$60,213,176	\$88,278,489
2091	121,876	672,774	794,650	\$29,047,600	\$62,320,637	\$91,368,237
2092	121,876	672,774	794,650	\$30,064,266	\$64,501,859	\$94,566,125
2093	121,876	672,774	794,650	\$31,116,516	\$66,759,424	\$97,875,940
2094	121,876	672,774	794,650	\$32,205,594	\$69,096,005	\$101,301,599
2095	121,876	672,774	794,650	\$33,332,790	\$71,514,365	\$104,847,156
2096	121,876	672,774	794,650	\$34,499,438	\$74,017,369	\$108,516,807
2097	121,876	672,774	794,650	\$35,706,919	\$76,607,977	\$112,314,896
2098	121,876	672,774	794,650	\$36,956,661	\$79,289,258	\$116,245,919
2099	121,876	672,774	794,650	\$38,250,144	\$82,064,383	\$120,314,527

\*This projection includes reservists.

**TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR**

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2000	479,840	1,126,357	1,606,197	29,106	73,329	102,435	1,708,632
2001	478,773	1,131,689	1,610,461	27,974	72,226	100,200	1,710,662
2002	477,871	1,138,697	1,616,568	26,849	71,258	98,108	1,714,676
2003	477,343	1,146,989	1,624,333	25,737	70,334	96,071	1,720,404
2004	476,696	1,156,001	1,632,696	24,643	69,419	94,062	1,726,758
2005	475,862	1,164,725	1,640,587	23,575	68,492	92,067	1,732,654
2006	476,013	1,174,831	1,650,844	22,538	67,530	90,068	1,740,912
2007	476,984	1,185,425	1,662,409	21,543	66,539	88,082	1,750,492
2008	477,046	1,192,491	1,669,537	20,598	65,510	86,107	1,755,644
2009	476,308	1,196,758	1,673,066	19,708	64,476	84,185	1,757,251
2010	474,665	1,197,853	1,672,519	18,879	63,435	82,314	1,754,832
2011	472,451	1,196,229	1,668,679	18,113	62,391	80,504	1,749,183
2012	470,055	1,193,421	1,663,476	17,416	61,369	78,785	1,742,261
2013	467,449	1,189,131	1,656,580	16,787	60,362	77,149	1,733,729
2014	464,606	1,183,008	1,647,614	16,223	59,361	75,585	1,723,199
2015	461,691	1,175,861	1,637,552	15,723	58,374	74,097	1,711,649
2016	458,798	1,169,807	1,628,606	15,282	57,439	72,722	1,701,327
2017	455,972	1,164,684	1,620,656	14,895	56,552	71,447	1,692,103
2018	453,087	1,158,741	1,611,828	14,555	55,677	70,232	1,682,060
2019	450,329	1,152,873	1,603,201	14,257	54,828	69,085	1,672,286
2020	447,743	1,148,433	1,596,176	13,994	54,028	68,022	1,664,198
2021	445,622	1,144,313	1,589,935	13,763	53,257	67,020	1,656,955
2022	443,643	1,140,769	1,584,411	13,558	52,519	66,078	1,650,489
2023	441,890	1,137,517	1,579,407	13,375	51,816	65,191	1,644,598
2024	440,263	1,134,443	1,574,706	13,210	51,150	64,360	1,639,066
2025	438,519	1,131,161	1,569,680	13,060	50,515	63,575	1,633,255
2026	436,720	1,127,894	1,564,614	12,922	49,910	62,832	1,627,446
2027	434,943	1,124,801	1,559,745	12,796	49,336	62,132	1,621,876
2028	433,106	1,121,781	1,554,887	12,679	48,790	61,469	1,616,356
2029	431,277	1,118,910	1,550,187	12,570	48,270	60,840	1,611,027
2030	429,432	1,116,235	1,545,667	12,468	47,776	60,244	1,605,912
2031	427,606	1,113,537	1,541,143	12,374	47,307	59,681	1,600,823
2032	425,760	1,110,763	1,536,523	12,286	46,863	59,149	1,595,672
2033	423,963	1,107,977	1,531,941	12,204	46,443	58,647	1,590,588
2034	422,224	1,105,236	1,527,460	12,128	46,048	58,176	1,585,636
2035	420,528	1,102,500	1,523,028	12,058	45,677	57,735	1,580,763
2036	418,912	1,099,813	1,518,725	11,994	45,332	57,326	1,576,051
2037	417,402	1,097,224	1,514,627	11,936	45,013	56,949	1,571,575
2038	416,001	1,094,663	1,510,664	11,883	44,718	56,601	1,567,265
2039	414,708	1,092,142	1,506,849	11,837	44,446	56,283	1,563,132
2040	413,503	1,089,727	1,503,230	11,796	44,199	55,994	1,559,224
2041	412,402	1,087,374	1,499,776	11,760	43,974	55,734	1,555,510
2042	411,403	1,085,107	1,496,510	11,730	43,770	55,501	1,552,011
2043	410,515	1,082,945	1,493,460	11,705	43,588	55,293	1,548,753
2044	409,747	1,080,917	1,490,664	11,685	43,426	55,111	1,545,775
2045	409,092	1,079,043	1,488,135	11,668	43,284	54,952	1,543,088
2046	408,537	1,077,348	1,485,885	11,655	43,161	54,816	1,540,701
2047	408,095	1,075,864	1,483,959	11,644	43,056	54,701	1,538,659
2048	407,754	1,074,614	1,482,368	11,637	42,967	54,604	1,536,972
2049	407,517	1,073,629	1,481,146	11,632	42,893	54,525	1,535,671

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.



**TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)**

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2050	407,382	1,072,946	1,480,328	11,629	42,833	54,462	1,534,790
2051	407,354	1,072,561	1,479,915	11,627	42,785	54,412	1,534,327
2052	407,426	1,072,491	1,479,917	11,628	42,748	54,376	1,534,293
2053	407,598	1,072,744	1,480,342	11,630	42,721	54,351	1,534,693
2054	407,872	1,073,320	1,481,191	11,634	42,702	54,336	1,535,527
2055	408,241	1,074,204	1,482,445	11,638	42,691	54,329	1,536,774
2056	408,703	1,075,379	1,484,082	11,644	42,685	54,329	1,538,411
2057	409,253	1,076,825	1,486,078	11,651	42,684	54,335	1,540,414
2058	409,886	1,078,515	1,488,401	11,659	42,687	54,346	1,542,747
2059	410,593	1,080,418	1,491,010	11,667	42,693	54,360	1,545,370
2060	411,364	1,082,503	1,493,866	11,675	42,701	54,377	1,548,243
2061	412,188	1,084,727	1,496,916	11,684	42,711	54,395	1,551,310
2062	413,053	1,087,052	1,500,105	11,693	42,721	54,414	1,554,519
2063	413,943	1,089,443	1,503,386	11,701	42,732	54,433	1,557,818
2064	414,845	1,091,868	1,506,713	11,709	42,742	54,451	1,561,164
2065	415,746	1,094,299	1,510,044	11,715	42,752	54,468	1,564,512
2066	416,633	1,096,708	1,513,341	11,722	42,761	54,483	1,567,824
2067	417,498	1,099,082	1,516,579	11,727	42,770	54,496	1,571,076
2068	418,331	1,101,402	1,519,733	11,731	42,777	54,508	1,574,241
2069	419,128	1,103,658	1,522,786	11,734	42,783	54,517	1,577,303
2070	419,886	1,105,845	1,525,731	11,736	42,789	54,525	1,580,255
2071	420,604	1,107,958	1,528,562	11,737	42,793	54,530	1,583,092
2072	421,283	1,109,998	1,531,281	11,738	42,797	54,534	1,585,815
2073	421,927	1,111,968	1,533,896	11,737	42,799	54,537	1,588,433
2074	422,541	1,113,877	1,536,418	11,737	42,802	54,538	1,590,957
2075	423,130	1,115,730	1,538,860	11,736	42,803	54,539	1,593,399
2076	423,699	1,117,533	1,541,231	11,735	42,805	54,539	1,595,771
2077	424,254	1,119,292	1,543,546	11,733	42,806	54,539	1,598,085
2078	424,800	1,121,016	1,545,817	11,732	42,806	54,539	1,600,355
2079	425,343	1,122,712	1,548,054	11,731	42,807	54,538	1,602,593
2080	425,885	1,124,384	1,550,269	11,730	42,808	54,538	1,604,807
2081	426,427	1,126,022	1,552,450	11,730	42,808	54,538	1,606,988
2082	426,972	1,127,634	1,554,607	11,729	42,809	54,538	1,609,145
2083	427,521	1,129,224	1,556,745	11,729	42,810	54,539	1,611,285
2084	428,075	1,130,794	1,558,869	11,730	42,811	54,540	1,613,409
2085	428,634	1,132,347	1,560,981	11,730	42,811	54,541	1,615,522
2086	429,197	1,133,887	1,563,083	11,731	42,812	54,543	1,617,626
2087	429,763	1,135,413	1,565,176	11,731	42,813	54,544	1,619,720
2088	430,331	1,136,927	1,567,258	11,732	42,814	54,546	1,621,804
2089	430,900	1,138,431	1,569,331	11,733	42,815	54,548	1,623,879
2090	431,469	1,139,924	1,571,393	11,734	42,816	54,549	1,625,942
2091	432,035	1,141,409	1,573,445	11,735	42,816	54,551	1,627,996
2092	432,599	1,142,885	1,575,484	11,735	42,817	54,553	1,630,037
2093	433,159	1,144,352	1,577,511	11,736	42,818	54,554	1,632,065
2094	433,714	1,145,812	1,579,526	11,736	42,819	54,555	1,634,081
2095	434,263	1,147,264	1,581,527	11,737	42,820	54,556	1,636,083
2096	434,806	1,148,707	1,583,513	11,737	42,820	54,557	1,638,071
2097	435,343	1,150,143	1,585,486	11,737	42,821	54,558	1,640,044
2098	435,874	1,151,572	1,587,446	11,737	42,822	54,559	1,642,004
2099	436,399	1,152,994	1,589,393	11,737	42,822	54,559	1,643,952

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR**

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2001	\$14,127,836	\$16,683,074	\$30,810,910	\$705,510	\$615,844	\$1,321,354	\$32,132,264
2002	\$14,561,027	\$17,292,022	\$31,853,049	\$695,613	\$627,781	\$1,323,394	\$33,176,443
2003	\$14,958,797	\$17,887,971	\$32,846,768	\$683,733	\$638,924	\$1,322,656	\$34,169,424
2004	\$15,369,454	\$18,523,562	\$33,893,016	\$671,391	\$650,417	\$1,321,807	\$35,214,823
2005	\$15,774,243	\$19,171,290	\$34,945,533	\$658,098	\$661,525	\$1,319,623	\$36,265,156
2006	\$16,207,959	\$19,862,284	\$36,070,243	\$644,911	\$672,809	\$1,317,720	\$37,387,963
2007	\$16,658,300	\$20,563,860	\$37,222,160	\$631,482	\$683,665	\$1,315,147	\$38,537,307
2008	\$17,112,643	\$21,249,257	\$38,361,900	\$618,336	\$694,234	\$1,312,570	\$39,674,470
2009	\$17,563,198	\$21,912,141	\$39,475,339	\$605,954	\$704,837	\$1,310,791	\$40,786,130
2010	\$18,072,180	\$22,634,546	\$40,706,726	\$596,765	\$718,243	\$1,315,008	\$42,021,734
2011	\$18,599,218	\$23,363,873	\$41,963,092	\$589,378	\$732,624	\$1,322,002	\$43,285,094
2012	\$19,133,378	\$24,087,226	\$43,220,605	\$583,369	\$747,396	\$1,330,765	\$44,551,370
2013	\$19,677,434	\$24,808,380	\$44,485,814	\$578,973	\$762,685	\$1,341,659	\$45,827,473
2014	\$20,228,586	\$25,516,891	\$45,745,478	\$576,297	\$778,326	\$1,354,623	\$47,100,101
2015	\$20,787,429	\$26,211,016	\$46,998,445	\$575,453	\$794,312	\$1,369,765	\$48,368,210
2016	\$21,358,131	\$26,919,443	\$48,277,573	\$576,561	\$811,198	\$1,387,759	\$49,665,332
2017	\$21,943,281	\$27,662,384	\$49,605,664	\$579,603	\$829,394	\$1,408,996	\$51,014,660
2018	\$22,539,578	\$28,418,977	\$50,958,555	\$584,498	\$848,521	\$1,433,019	\$52,391,574
2019	\$23,147,161	\$29,183,781	\$52,330,941	\$591,187	\$868,444	\$1,459,631	\$53,790,572
2020	\$23,766,832	\$29,981,733	\$53,748,565	\$599,595	\$889,697	\$1,489,292	\$55,237,857
2021	\$24,408,376	\$30,813,400	\$55,221,776	\$609,680	\$912,347	\$1,522,027	\$56,743,803
2022	\$25,074,909	\$31,677,857	\$56,752,766	\$621,338	\$936,257	\$1,557,595	\$58,310,361
2023	\$25,763,094	\$32,581,304	\$58,344,398	\$634,454	\$961,574	\$1,596,028	\$59,940,426
2024	\$26,476,219	\$33,522,140	\$59,998,359	\$649,002	\$988,414	\$1,637,416	\$61,635,775
2025	\$27,210,259	\$34,496,192	\$61,706,451	\$664,920	\$1,016,808	\$1,681,728	\$63,388,179
2026	\$27,964,345	\$35,508,347	\$63,472,692	\$682,138	\$1,046,772	\$1,728,910	\$65,201,602
2027	\$28,744,635	\$36,566,003	\$65,310,638	\$700,682	\$1,078,389	\$1,779,072	\$67,089,710
2028	\$29,640,118	\$37,665,392	\$67,305,510	\$720,607	\$1,111,640	\$1,832,247	\$69,137,757
2029	\$30,561,931	\$38,805,485	\$69,367,416	\$741,840	\$1,146,493	\$1,888,333	\$71,255,749
2030	\$31,513,802	\$40,132,406	\$71,646,209	\$764,392	\$1,183,010	\$1,947,402	\$73,593,611
2031	\$32,505,324	\$41,502,742	\$74,008,066	\$788,349	\$1,221,210	\$2,009,560	\$76,017,626
2032	\$33,538,196	\$42,919,299	\$76,457,496	\$813,697	\$1,261,117	\$2,074,814	\$78,532,310
2033	\$34,607,170	\$44,391,523	\$78,998,693	\$840,394	\$1,302,777	\$2,143,170	\$81,141,863
2034	\$35,707,940	\$45,909,255	\$81,617,195	\$868,455	\$1,346,212	\$2,214,667	\$83,831,862
2035	\$36,842,217	\$47,468,435	\$84,310,653	\$897,890	\$1,391,453	\$2,289,343	\$86,599,996
2036	\$38,014,553	\$49,075,416	\$87,089,969	\$928,669	\$1,438,587	\$2,367,256	\$89,457,225
2037	\$39,230,115	\$50,737,407	\$89,967,522	\$960,815	\$1,487,709	\$2,448,524	\$92,416,046
2038	\$40,485,768	\$52,450,692	\$92,936,460	\$994,346	\$1,538,843	\$2,533,189	\$95,469,649
2039	\$41,790,636	\$54,221,354	\$96,011,990	\$1,029,275	\$1,592,008	\$2,621,283	\$98,633,273
2040	\$43,148,023	\$56,061,335	\$99,209,358	\$1,065,627	\$1,647,294	\$2,712,921	\$101,922,279
2041	\$44,553,198	\$57,967,726	\$102,520,925	\$1,103,440	\$1,704,770	\$2,808,210	\$105,329,135
2042	\$46,012,980	\$59,942,308	\$105,955,288	\$1,142,745	\$1,764,477	\$2,907,222	\$108,862,510
2043	\$47,527,662	\$61,987,778	\$109,515,440	\$1,183,558	\$1,826,496	\$3,010,054	\$112,525,494
2044	\$49,101,397	\$64,112,482	\$113,213,879	\$1,225,915	\$1,890,917	\$3,116,832	\$116,330,711
2045	\$50,734,117	\$66,313,203	\$117,047,321	\$1,269,853	\$1,957,819	\$3,227,671	\$120,274,992
2046	\$52,427,643	\$68,591,616	\$121,019,259	\$1,315,390	\$2,027,284	\$3,342,674	\$124,361,933
2047	\$54,186,471	\$70,955,360	\$125,141,831	\$1,362,569	\$2,099,407	\$3,461,975	\$128,603,806
2048	\$56,013,601	\$73,409,835	\$129,423,436	\$1,411,453	\$2,174,260	\$3,585,712	\$133,009,148
2049	\$57,912,152	\$75,959,474	\$133,871,626	\$1,462,088	\$2,251,915	\$3,714,003	\$137,585,629
2050	\$59,886,890	\$78,610,636	\$138,497,526	\$1,514,536	\$2,332,463	\$3,846,998	\$142,344,524

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.

**TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR (continued)**

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2051	\$61,943,289	\$81,369,797	\$143,313,086	\$1,568,887	\$2,415,992	\$3,984,878	\$147,297,964
2052	\$64,086,344	\$84,242,060	\$148,328,404	\$1,625,220	\$2,502,584	\$4,127,803	\$152,456,207
2053	\$66,320,072	\$87,233,527	\$153,553,599	\$1,683,604	\$2,592,328	\$4,275,932	\$157,829,531
2054	\$68,649,385	\$90,350,610	\$158,999,995	\$1,744,125	\$2,685,314	\$4,429,439	\$163,429,434
2055	\$71,079,295	\$93,599,210	\$164,678,505	\$1,806,869	\$2,781,629	\$4,588,498	\$169,267,003
2056	\$73,614,598	\$96,984,790	\$170,599,388	\$1,871,912	\$2,881,357	\$4,753,269	\$175,352,657
2057	\$76,259,906	\$100,512,456	\$176,772,362	\$1,939,327	\$2,984,599	\$4,923,926	\$181,696,288
2058	\$79,019,114	\$104,186,891	\$183,206,005	\$2,009,201	\$3,091,448	\$5,100,649	\$188,306,654
2059	\$81,896,244	\$108,012,998	\$189,909,242	\$2,081,604	\$3,201,996	\$5,283,600	\$195,192,842
2060	\$84,895,059	\$111,995,840	\$196,890,899	\$2,156,595	\$3,316,356	\$5,472,951	\$202,363,850
2061	\$88,018,786	\$116,138,745	\$204,157,531	\$2,234,242	\$3,434,638	\$5,668,881	\$209,826,412
2062	\$91,269,548	\$120,443,845	\$211,713,393	\$2,314,607	\$3,556,957	\$5,871,564	\$217,584,957
2063	\$94,648,464	\$124,914,353	\$219,562,817	\$2,397,737	\$3,683,435	\$6,081,172	\$225,643,989
2064	\$98,157,223	\$129,553,953	\$227,711,176	\$2,483,685	\$3,814,201	\$6,297,886	\$234,009,062
2065	\$101,796,819	\$134,365,287	\$236,162,106	\$2,572,505	\$3,949,391	\$6,521,896	\$242,684,002
2066	\$105,568,395	\$139,351,562	\$244,919,958	\$2,664,252	\$4,089,151	\$6,753,403	\$251,673,361
2067	\$109,473,776	\$144,517,032	\$253,990,808	\$2,758,992	\$4,233,641	\$6,992,633	\$260,983,441
2068	\$113,514,778	\$149,866,227	\$263,381,005	\$2,856,803	\$4,383,025	\$7,239,828	\$270,620,833
2069	\$117,693,702	\$155,403,767	\$273,097,469	\$2,957,775	\$4,537,480	\$7,495,255	\$280,592,724
2070	\$122,013,982	\$161,135,192	\$283,149,174	\$3,062,009	\$4,697,194	\$7,759,203	\$290,908,377
2071	\$126,479,944	\$167,066,574	\$293,546,518	\$3,169,630	\$4,862,361	\$8,031,991	\$301,578,509
2072	\$131,096,372	\$173,204,295	\$304,300,667	\$3,280,777	\$5,033,185	\$8,313,962	\$312,614,629
2073	\$135,868,611	\$179,555,671	\$315,424,282	\$3,395,599	\$5,209,877	\$8,605,476	\$324,029,758
2074	\$140,803,144	\$186,128,926	\$326,932,070	\$3,514,260	\$5,392,653	\$8,906,913	\$335,838,983
2075	\$145,907,058	\$192,932,711	\$338,839,769	\$3,636,936	\$5,581,747	\$9,218,683	\$348,058,452
2076	\$151,187,952	\$199,975,830	\$351,163,782	\$3,763,811	\$5,777,398	\$9,541,209	\$360,704,991
2077	\$156,654,328	\$207,267,584	\$363,921,912	\$3,895,078	\$5,979,847	\$9,874,925	\$373,796,837
2078	\$162,314,320	\$214,817,898	\$377,132,218	\$4,030,937	\$6,189,345	\$10,220,282	\$387,352,500
2079	\$168,176,791	\$222,637,325	\$390,814,116	\$4,171,585	\$6,406,154	\$10,577,739	\$401,391,855
2080	\$174,250,871	\$230,736,116	\$404,986,987	\$4,317,223	\$6,630,540	\$10,947,763	\$415,934,750
2081	\$180,545,350	\$239,123,842	\$419,669,192	\$4,468,050	\$6,862,779	\$11,330,829	\$431,000,021
2082	\$187,068,826	\$247,809,956	\$434,878,782	\$4,624,268	\$7,103,151	\$11,727,418	\$446,606,200
2083	\$193,830,492	\$256,805,999	\$450,636,491	\$4,786,074	\$7,351,945	\$12,138,019	\$462,774,510
2084	\$200,839,481	\$266,123,690	\$466,963,171	\$4,953,666	\$7,609,459	\$12,563,125	\$479,526,296
2085	\$208,104,898	\$275,774,933	\$483,879,831	\$5,127,242	\$7,876,000	\$13,003,242	\$496,883,073
2086	\$215,636,030	\$285,772,105	\$501,408,135	\$5,306,999	\$8,151,882	\$13,458,882	\$514,867,017
2087	\$223,442,298	\$296,127,958	\$519,570,256	\$5,493,137	\$8,437,433	\$13,930,571	\$533,500,827
2088	\$231,532,866	\$306,855,428	\$538,388,294	\$5,685,859	\$8,732,990	\$14,418,849	\$552,807,143
2089	\$239,917,257	\$317,967,949	\$557,885,206	\$5,885,371	\$9,038,899	\$14,924,271	\$572,809,477
2090	\$248,605,254	\$329,479,503	\$578,084,757	\$6,091,888	\$9,355,523	\$15,447,410	\$593,532,167
2091	\$257,606,918	\$341,404,547	\$599,011,465	\$6,305,630	\$9,683,232	\$15,988,862	\$615,000,327
2092	\$266,932,648	\$353,757,901	\$620,690,549	\$6,526,829	\$10,022,413	\$16,549,242	\$637,239,791
2093	\$276,593,052	\$366,554,926	\$643,147,978	\$6,755,726	\$10,373,466	\$17,129,192	\$660,277,170
2094	\$286,599,248	\$379,811,593	\$666,410,841	\$6,992,576	\$10,736,804	\$17,729,380	\$684,140,221
2095	\$296,962,796	\$393,544,341	\$690,507,137	\$7,237,644	\$11,112,856	\$18,350,500	\$708,857,637
2096	\$307,695,859	\$407,770,134	\$715,465,993	\$7,491,212	\$11,502,067	\$18,993,279	\$734,459,272
2097	\$318,811,311	\$422,506,639	\$741,317,950	\$7,753,574	\$11,904,898	\$19,658,471	\$760,976,421
2098	\$330,322,614	\$437,772,205	\$768,094,819	\$8,025,041	\$12,321,824	\$20,346,865	\$788,441,684
2099	\$342,243,893	\$453,585,841	\$795,829,734	\$8,305,939	\$12,753,341	\$21,059,280	\$816,889,014

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.

**RETIREE GAIN STATEMENT**

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2001	13,222	33,176	478	2,978	\$30,924	\$15,113	\$26,608	\$9,496
2002	13,748	35,706	476	3,012	\$30,858	\$15,457	\$27,625	\$9,921
2003	14,444	37,822	477	3,031	\$31,346	\$15,931	\$28,656	\$10,360
2004	14,600	39,373	479	3,048	\$32,332	\$16,506	\$29,633	\$10,800
2005	14,637	39,912	480	3,043	\$33,580	\$17,176	\$30,623	\$11,234
2006	15,803	42,170	482	3,031	\$33,688	\$17,454	\$31,710	\$11,670
2007	16,755	43,586	482	3,000	\$33,618	\$17,329	\$32,848	\$12,098
2008	15,914	40,966	483	2,955	\$35,433	\$18,047	\$33,960	\$12,522
2009	15,127	39,007	484	2,939	\$37,555	\$18,875	\$35,206	\$12,964
2010	14,186	36,596	482	2,917	\$39,786	\$19,900	\$36,506	\$13,431
2011	13,515	34,564	480	2,897	\$41,946	\$20,925	\$37,737	\$13,884
2012	13,208	34,019	480	2,898	\$43,919	\$21,792	\$38,977	\$14,370
2013	12,858	33,110	478	2,893	\$45,731	\$22,589	\$40,280	\$14,834
2014	12,475	31,779	474	2,875	\$47,651	\$23,473	\$41,572	\$15,300
2015	12,262	31,188	472	2,863	\$49,208	\$24,016	\$42,933	\$15,768
2016	12,128	32,599	470	2,886	\$50,893	\$24,555	\$44,382	\$16,340
2017	12,060	33,780	467	2,907	\$52,365	\$25,046	\$45,769	\$16,920
2018	11,895	33,140	464	2,893	\$53,889	\$25,830	\$47,244	\$17,478
2019	11,942	33,325	461	2,888	\$55,004	\$26,555	\$48,733	\$18,082
2020	12,059	34,804	460	2,906	\$55,619	\$27,061	\$50,292	\$18,785
2021	12,481	35,099	460	2,905	\$56,573	\$27,712	\$51,908	\$19,447
2022	12,595	35,605	460	2,908	\$57,909	\$28,657	\$53,583	\$20,152
2023	12,810	35,783	460	2,911	\$59,185	\$29,688	\$55,369	\$20,889
2024	12,934	35,809	462	2,918	\$61,041	\$30,799	\$57,256	\$21,650
2025	12,824	35,428	462	2,921	\$63,363	\$32,047	\$59,244	\$22,436
2026	12,775	35,249	463	2,923	\$65,946	\$33,552	\$61,346	\$23,261
2027	12,810	35,211	465	2,927	\$68,616	\$34,925	\$63,667	\$24,107
2028	12,765	35,070	467	2,928	\$71,338	\$36,165	\$66,123	\$24,958
2029	12,792	35,024	468	2,927	\$74,205	\$37,455	\$68,566	\$25,842
2030	12,793	35,049	470	2,927	\$77,375	\$38,919	\$71,259	\$26,764
2031	12,819	34,867	472	2,926	\$81,060	\$40,375	\$74,096	\$27,705
2032	12,800	34,657	473	2,926	\$84,281	\$41,953	\$76,918	\$28,676
2033	12,839	34,538	474	2,925	\$87,538	\$43,500	\$79,784	\$29,680
2034	12,871	34,494	474	2,923	\$90,776	\$45,055	\$82,777	\$30,715
2035	12,872	34,432	474	2,921	\$94,073	\$46,605	\$85,769	\$31,781
2036	12,891	34,435	474	2,921	\$97,456	\$48,212	\$88,808	\$32,887
2037	12,915	34,498	474	2,921	\$100,635	\$49,864	\$91,916	\$34,034
2038	12,922	34,481	473	2,919	\$103,942	\$51,559	\$95,105	\$35,215
2039	12,911	34,467	473	2,918	\$107,387	\$53,310	\$98,371	\$36,436
2040	12,868	34,512	472	2,918	\$110,989	\$55,113	\$101,727	\$37,705
2041	12,841	34,518	471	2,918	\$114,772	\$56,982	\$105,182	\$39,017
2042	12,805	34,526	471	2,918	\$118,722	\$58,936	\$108,756	\$40,377
2043	12,772	34,520	470	2,918	\$122,706	\$60,985	\$112,443	\$41,786
2044	12,751	34,522	470	2,918	\$126,813	\$63,099	\$116,254	\$43,246
2045	12,729	34,523	469	2,918	\$131,063	\$65,282	\$120,196	\$44,758
2046	12,711	34,542	469	2,918	\$135,481	\$67,563	\$124,293	\$46,327
2047	12,711	34,567	469	2,919	\$140,096	\$69,924	\$128,551	\$47,952
2048	12,706	34,580	468	2,919	\$144,833	\$72,355	\$132,987	\$49,633
2049	12,710	34,592	468	2,919	\$149,789	\$74,879	\$137,582	\$51,373
2050	12,718	34,613	468	2,920	\$154,954	\$77,509	\$142,379	\$53,176

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

**RETIREE GAIN STATEMENT (continued)**

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2051	12,738	34,625	469	2,920	\$160,387	\$80,222	\$147,382	\$55,041
2052	12,754	34,637	469	2,920	\$165,992	\$83,035	\$152,571	\$56,972
2053	12,771	34,648	469	2,921	\$171,825	\$85,949	\$157,954	\$58,970
2054	12,789	34,656	470	2,921	\$177,918	\$88,969	\$163,558	\$61,038
2055	12,803	34,658	470	2,921	\$184,227	\$92,091	\$169,359	\$63,177
2056	12,817	34,662	470	2,921	\$190,790	\$95,324	\$175,366	\$65,391
2057	12,830	34,668	470	2,921	\$197,595	\$98,669	\$181,589	\$67,683
2058	12,837	34,668	471	2,921	\$204,639	\$102,130	\$188,033	\$70,053
2059	12,842	34,665	471	2,921	\$211,939	\$105,711	\$194,689	\$72,506
2060	12,842	34,665	471	2,921	\$219,471	\$109,417	\$201,572	\$75,044
2061	12,844	34,663	471	2,921	\$227,270	\$113,251	\$208,685	\$77,670
2062	12,843	34,660	471	2,921	\$235,321	\$117,218	\$216,030	\$80,388
2063	12,839	34,657	471	2,921	\$243,621	\$121,323	\$223,614	\$83,201
2064	12,834	34,655	471	2,921	\$252,188	\$125,570	\$231,447	\$86,113
2065	12,828	34,651	471	2,921	\$261,023	\$129,964	\$239,536	\$89,126
2066	12,821	34,650	471	2,921	\$270,154	\$134,513	\$247,893	\$92,244
2067	12,814	34,649	471	2,921	\$279,575	\$139,221	\$256,530	\$95,473
2068	12,808	34,648	470	2,921	\$289,303	\$144,091	\$265,463	\$98,814
2069	12,802	34,647	470	2,921	\$299,358	\$149,132	\$274,699	\$102,272
2070	12,796	34,648	470	2,921	\$309,752	\$154,351	\$284,257	\$105,852
2071	12,793	34,649	470	2,921	\$320,519	\$159,752	\$294,154	\$109,557
2072	12,791	34,650	470	2,921	\$331,657	\$165,342	\$304,401	\$113,392
2073	12,790	34,652	470	2,921	\$343,184	\$171,129	\$315,011	\$117,362
2074	12,790	34,654	470	2,921	\$355,126	\$177,119	\$326,003	\$121,471
2075	12,791	34,655	470	2,921	\$367,495	\$183,318	\$337,388	\$125,724
2076	12,793	34,657	470	2,921	\$380,313	\$189,736	\$349,181	\$130,126
2077	12,795	34,659	470	2,921	\$393,600	\$196,378	\$361,399	\$134,682
2078	12,798	34,661	470	2,921	\$407,363	\$203,253	\$374,056	\$139,398
2079	12,801	34,663	470	2,921	\$421,627	\$210,369	\$387,165	\$144,278
2080	12,804	34,665	470	2,921	\$436,404	\$217,735	\$400,741	\$149,330
2081	12,807	34,666	470	2,921	\$451,715	\$225,358	\$414,801	\$154,558
2082	12,810	34,667	470	2,921	\$467,573	\$233,249	\$429,358	\$159,970
2083	12,812	34,669	470	2,921	\$483,989	\$241,416	\$444,426	\$165,570
2084	12,814	34,670	470	2,921	\$500,987	\$249,868	\$460,021	\$171,367
2085	12,816	34,670	470	2,921	\$518,579	\$258,616	\$476,161	\$177,366
2086	12,817	34,671	470	2,921	\$536,787	\$267,670	\$492,861	\$183,575
2087	12,817	34,672	470	2,921	\$555,627	\$277,041	\$510,141	\$190,001
2088	12,817	34,673	470	2,921	\$575,119	\$286,740	\$528,019	\$196,652
2089	12,817	34,673	470	2,921	\$595,284	\$296,778	\$546,516	\$203,536
2090	12,816	34,674	470	2,921	\$616,144	\$307,167	\$565,653	\$210,661
2091	12,816	34,674	470	2,921	\$637,727	\$317,919	\$585,454	\$218,035
2092	12,815	34,675	470	2,921	\$660,054	\$329,048	\$605,941	\$225,667
2093	12,814	34,675	470	2,921	\$683,151	\$340,566	\$627,138	\$233,567
2094	12,813	34,676	470	2,921	\$707,048	\$352,487	\$649,074	\$241,742
2095	12,812	34,676	470	2,921	\$731,773	\$364,825	\$671,773	\$250,204
2096	12,811	34,677	470	2,921	\$757,358	\$377,595	\$695,264	\$258,963
2097	12,810	34,677	470	2,921	\$783,835	\$390,812	\$719,577	\$268,028
2098	12,810	34,678	470	2,921	\$811,237	\$404,492	\$744,742	\$277,410
2099	12,809	34,678	470	2,921	\$839,598	\$418,651	\$770,789	\$287,120

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

**TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR**

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2000	209,348	25,135	512	2,064	16,230	253,289
2001	218,288	28,046	473	2,072	16,188	265,067
2002	226,383	31,312	437	2,081	16,104	276,317
2003	233,737	34,714	403	2,090	15,979	286,923
2004	240,239	38,221	370	2,098	15,798	296,726
2005	245,870	41,814	340	2,106	15,561	305,691
2006	250,599	45,496	310	2,111	15,267	313,783
2007	254,408	49,256	283	2,113	14,916	320,976
2008	257,179	53,032	257	2,110	14,460	327,038
2009	258,996	56,782	232	2,103	13,927	332,040
2010	259,955	60,466	209	2,091	13,346	336,068
2011	260,127	64,040	188	2,076	12,722	339,152
2012	259,567	67,466	168	2,057	12,058	341,316
2013	258,340	70,712	150	2,036	11,359	342,597
2014	256,522	73,753	133	2,011	10,632	343,051
2015	254,191	76,574	118	1,983	9,884	342,750
2016	251,452	79,165	104	1,955	9,126	341,802
2017	248,390	81,530	91	1,926	8,365	340,302
2018	245,080	83,675	80	1,896	7,612	338,343
2019	241,591	85,619	70	1,864	6,875	336,019
2020	237,987	87,386	61	1,834	6,163	333,430
2021	234,323	89,000	54	1,804	5,483	330,663
2022	230,643	90,489	47	1,774	4,843	327,795
2023	226,982	91,876	41	1,745	4,246	324,890
2024	223,362	93,182	35	1,717	3,698	321,994
2025	219,794	94,423	31	1,690	3,199	319,138
2026	216,286	95,607	27	1,665	2,751	316,336
2027	212,847	96,738	23	1,641	2,353	313,602
2028	209,485	97,817	20	1,619	2,003	310,944
2029	206,215	98,840	17	1,598	1,698	308,369
2030	203,049	99,801	15	1,579	1,436	305,881
2031	199,998	100,687	13	1,561	1,214	303,474
2032	197,077	101,487	11	1,545	1,027	301,148
2033	194,295	102,191	10	1,531	873	298,900
2034	191,663	102,787	8	1,518	747	296,723
2035	189,177	103,269	7	1,506	646	294,605
2036	186,833	103,629	6	1,495	565	292,528
2037	184,617	103,863	5	1,486	501	290,473
2038	182,517	103,973	5	1,478	451	288,423
2039	180,515	103,965	4	1,471	411	286,366
2040	178,594	103,849	3	1,464	380	284,290
2041	176,737	103,638	3	1,458	354	282,190
2042	174,926	103,346	2	1,453	333	280,059
2043	173,141	102,991	2	1,448	315	277,897
2044	171,371	102,589	2	1,443	300	275,704
2045	169,601	102,159	1	1,438	286	273,486
2046	167,829	101,722	1	1,434	274	271,260
2047	166,049	101,293	1	1,429	263	269,035
2048	164,257	100,885	1	1,424	253	266,820
2049	162,454	100,508	1	1,419	244	264,626

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)**

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2050	160,644	100,170	1	1,413	235	262,463
2051	158,838	99,876	1	1,407	227	260,348
2052	157,044	99,626	1	1,400	220	258,291
2053	155,271	99,415	0	1,393	213	256,292
2054	153,527	99,235	0	1,386	206	254,354
2055	151,820	99,073	0	1,377	201	252,471
2056	150,161	98,924	0	1,369	195	250,650
2057	148,566	98,780	0	1,360	191	248,897
2058	147,045	98,635	0	1,350	186	247,217
2059	145,609	98,484	0	1,340	182	245,616
2060	144,262	98,324	0	1,331	178	244,095
2061	143,029	98,159	0	1,320	175	242,684
2062	141,922	97,997	0	1,310	172	241,401
2063	140,952	97,839	0	1,300	169	240,260
2064	140,125	97,691	0	1,290	166	239,272
2065	139,444	97,557	0	1,281	164	238,446
2066	138,910	97,443	0	1,271	161	237,785
2067	138,521	97,351	0	1,262	158	237,292
2068	138,269	97,283	0	1,253	155	236,961
2069	138,140	97,240	0	1,244	153	236,777
2070	138,121	97,220	0	1,236	150	236,727
2071	138,193	97,223	0	1,228	146	236,790
2072	138,339	97,243	0	1,220	143	236,947
2073	138,541	97,279	0	1,213	140	237,173
2074	138,781	97,325	0	1,205	136	237,447
2075	139,042	97,379	0	1,198	132	237,751
2076	139,310	97,438	0	1,190	128	238,066
2077	139,570	97,499	0	1,183	123	238,375
2078	139,812	97,559	0	1,176	119	238,665
2079	140,028	97,617	0	1,169	114	238,927
2080	140,211	97,672	0	1,161	108	239,152
2081	140,361	97,723	0	1,154	103	239,341
2082	140,476	97,771	0	1,147	98	239,492
2083	140,557	97,816	0	1,140	92	239,606
2084	140,608	97,858	0	1,133	86	239,686
2085	140,636	97,898	0	1,126	80	239,741
2086	140,646	97,936	0	1,119	74	239,776
2087	140,641	97,971	0	1,112	68	239,793
2088	140,626	98,005	0	1,105	63	239,799
2089	140,605	98,038	0	1,099	57	239,799
2090	140,582	98,070	0	1,092	52	239,796
2091	140,559	98,101	0	1,086	46	239,792
2092	140,541	98,132	0	1,079	42	239,793
2093	140,529	98,162	0	1,073	37	239,801
2094	140,525	98,193	0	1,067	33	239,817
2095	140,529	98,223	0	1,061	29	239,842
2096	140,542	98,254	0	1,055	25	239,876
2097	140,564	98,285	0	1,049	21	239,920
2098	140,594	98,316	0	1,044	18	239,972
2099	140,630	98,347	0	1,038	16	240,030

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2001	\$1,780,880	\$121,038	\$2,807	\$14,823	\$45,929	\$1,965,478
2002	\$1,885,700	\$138,870	\$2,647	\$14,958	\$46,769	\$2,088,944
2003	\$1,987,414	\$158,883	\$2,490	\$15,119	\$47,442	\$2,211,348
2004	\$2,087,661	\$180,565	\$2,339	\$15,244	\$48,006	\$2,333,815
2005	\$2,183,172	\$203,643	\$2,191	\$15,350	\$48,385	\$2,452,741
2006	\$2,276,378	\$228,437	\$2,049	\$15,446	\$48,622	\$2,570,931
2007	\$2,364,691	\$254,874	\$1,909	\$15,532	\$48,646	\$2,685,653
2008	\$2,417,455	\$273,514	\$1,773	\$15,493	\$48,390	\$2,756,625
2009	\$2,462,269	\$292,689	\$1,641	\$15,358	\$47,803	\$2,819,760
2010	\$2,510,884	\$313,510	\$1,519	\$15,174	\$47,116	\$2,888,203
2011	\$2,558,285	\$335,404	\$1,403	\$15,190	\$46,240	\$2,956,521
2012	\$2,601,737	\$357,707	\$1,292	\$15,128	\$45,113	\$3,020,977
2013	\$2,637,483	\$379,845	\$1,186	\$14,986	\$43,736	\$3,077,235
2014	\$2,668,078	\$401,790	\$1,086	\$14,980	\$42,114	\$3,128,048
2015	\$2,694,132	\$423,785	\$991	\$14,788	\$40,263	\$3,173,958
2016	\$2,716,536	\$445,893	\$902	\$14,682	\$38,206	\$3,216,220
2017	\$2,735,739	\$468,099	\$819	\$14,582	\$35,979	\$3,255,218
2018	\$2,752,482	\$490,304	\$742	\$14,362	\$33,618	\$3,291,508
2019	\$2,767,092	\$512,507	\$671	\$14,139	\$31,163	\$3,325,572
2020	\$2,780,826	\$534,842	\$606	\$13,850	\$28,659	\$3,358,783
2021	\$2,794,140	\$557,433	\$547	\$13,565	\$26,150	\$3,391,835
2022	\$2,807,778	\$580,360	\$492	\$13,231	\$23,681	\$3,425,542
2023	\$2,822,147	\$603,760	\$443	\$12,870	\$21,290	\$3,460,510
2024	\$2,837,260	\$627,843	\$398	\$12,495	\$19,011	\$3,497,008
2025	\$2,853,830	\$652,765	\$358	\$12,097	\$16,873	\$3,535,922
2026	\$2,871,707	\$678,620	\$321	\$11,717	\$14,892	\$3,577,257
2027	\$2,890,942	\$705,500	\$288	\$11,330	\$13,084	\$3,621,144
2028	\$2,911,680	\$733,382	\$258	\$10,943	\$11,455	\$3,667,718
2029	\$2,935,048	\$762,290	\$231	\$10,591	\$10,005	\$3,718,165
2030	\$2,961,057	\$792,264	\$207	\$10,260	\$8,730	\$3,772,517
2031	\$2,990,441	\$823,289	\$185	\$9,991	\$7,624	\$3,831,530
2032	\$3,023,979	\$855,298	\$165	\$9,787	\$6,680	\$3,895,909
2033	\$3,062,216	\$888,152	\$147	\$9,646	\$5,885	\$3,966,046
2034	\$3,105,878	\$921,706	\$130	\$9,542	\$5,226	\$4,042,482
2035	\$3,154,239	\$955,777	\$115	\$9,463	\$4,688	\$4,124,282
2036	\$3,206,811	\$990,214	\$102	\$9,420	\$4,258	\$4,210,805
2037	\$3,263,646	\$1,024,860	\$90	\$9,440	\$3,917	\$4,301,952
2038	\$3,325,589	\$1,059,605	\$79	\$9,516	\$3,651	\$4,398,440
2039	\$3,393,337	\$1,094,369	\$69	\$9,634	\$3,445	\$4,500,853
2040	\$3,465,845	\$1,129,084	\$61	\$9,776	\$3,285	\$4,608,052
2041	\$3,542,716	\$1,163,744	\$54	\$9,955	\$3,161	\$4,719,631
2042	\$3,623,872	\$1,198,410	\$47	\$10,144	\$3,062	\$4,835,535
2043	\$3,708,519	\$1,233,166	\$41	\$10,329	\$2,982	\$4,955,037
2044	\$3,795,733	\$1,268,134	\$36	\$10,533	\$2,915	\$5,077,351
2045	\$3,885,600	\$1,303,476	\$32	\$10,743	\$2,857	\$5,202,709
2046	\$3,977,669	\$1,339,414	\$28	\$10,962	\$2,807	\$5,330,880
2047	\$4,072,024	\$1,376,203	\$25	\$11,185	\$2,762	\$5,462,199
2048	\$4,168,068	\$1,414,075	\$22	\$11,419	\$2,722	\$5,596,305
2049	\$4,265,877	\$1,453,268	\$20	\$11,666	\$2,686	\$5,733,517
2050	\$4,365,493	\$1,494,006	\$18	\$11,922	\$2,654	\$5,874,092

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.



**TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR (continued)**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2051	\$4,466,708	\$1,536,499	\$16	\$12,188	\$2,626	\$6,018,037
2052	\$4,569,431	\$1,580,944	\$15	\$12,465	\$2,602	\$6,165,457
2053	\$4,674,155	\$1,627,442	\$15	\$12,753	\$2,583	\$6,316,949
2054	\$4,780,820	\$1,676,044	\$14	\$13,053	\$2,570	\$6,472,501
2055	\$4,889,555	\$1,726,744	\$14	\$13,366	\$2,562	\$6,632,241
2056	\$5,000,552	\$1,779,532	\$13	\$13,693	\$2,559	\$6,796,350
2057	\$5,114,015	\$1,834,421	\$13	\$14,036	\$2,562	\$6,965,047
2058	\$5,231,186	\$1,891,422	\$13	\$14,394	\$2,571	\$7,139,586
2059	\$5,352,716	\$1,950,547	\$13	\$14,768	\$2,585	\$7,320,630
2060	\$5,479,232	\$2,011,825	\$13	\$15,158	\$2,604	\$7,508,832
2061	\$5,611,734	\$2,075,372	\$13	\$15,565	\$2,627	\$7,705,312
2062	\$5,751,655	\$2,141,394	\$13	\$15,989	\$2,655	\$7,911,707
2063	\$5,900,298	\$2,210,081	\$13	\$16,427	\$2,686	\$8,129,505
2064	\$6,058,656	\$2,281,607	\$13	\$16,879	\$2,720	\$8,359,874
2065	\$6,227,891	\$2,356,159	\$13	\$17,345	\$2,754	\$8,604,163
2066	\$6,409,154	\$2,433,933	\$13	\$17,824	\$2,791	\$8,863,715
2067	\$6,603,633	\$2,515,130	\$13	\$18,317	\$2,827	\$9,139,920
2068	\$6,811,880	\$2,599,925	\$13	\$18,824	\$2,862	\$9,433,504
2069	\$7,034,190	\$2,688,467	\$12	\$19,343	\$2,895	\$9,744,908
2070	\$7,270,987	\$2,780,878	\$12	\$19,876	\$2,926	\$10,074,678
2071	\$7,522,203	\$2,877,259	\$11	\$20,421	\$2,954	\$10,422,847
2072	\$7,787,586	\$2,977,685	\$11	\$20,979	\$2,977	\$10,789,238
2073	\$8,066,708	\$3,082,196	\$10	\$21,551	\$2,994	\$11,173,459
2074	\$8,358,722	\$3,190,844	\$10	\$22,136	\$3,006	\$11,574,717
2075	\$8,663,251	\$3,303,662	\$9	\$22,736	\$3,009	\$11,992,667
2076	\$8,979,701	\$3,420,673	\$8	\$23,351	\$3,005	\$12,426,740
2077	\$9,307,516	\$3,541,939	\$7	\$23,984	\$2,992	\$12,876,439
2078	\$9,646,113	\$3,667,527	\$7	\$24,634	\$2,970	\$13,341,250
2079	\$9,995,123	\$3,797,515	\$6	\$25,303	\$2,937	\$13,820,885
2080	\$10,354,320	\$3,931,992	\$5	\$25,991	\$2,895	\$14,315,202
2081	\$10,723,985	\$4,071,096	\$4	\$26,701	\$2,841	\$14,824,627
2082	\$11,104,003	\$4,215,045	\$3	\$27,437	\$2,776	\$15,349,264
2083	\$11,494,615	\$4,363,984	\$3	\$28,198	\$2,699	\$15,889,499
2084	\$11,896,322	\$4,518,088	\$2	\$28,987	\$2,611	\$16,446,010
2085	\$12,309,938	\$4,677,548	\$2	\$29,805	\$2,513	\$17,019,805
2086	\$12,736,344	\$4,842,567	\$1	\$30,651	\$2,404	\$17,611,967
2087	\$13,176,322	\$5,013,336	\$1	\$31,527	\$2,287	\$18,223,473
2088	\$13,630,706	\$5,190,064	\$1	\$32,434	\$2,162	\$18,855,367
2089	\$14,100,472	\$5,372,979	\$1	\$33,373	\$2,032	\$19,508,856
2090	\$14,586,571	\$5,562,313	\$0	\$34,343	\$1,898	\$20,185,125
2091	\$15,089,825	\$5,758,300	\$0	\$35,346	\$1,762	\$20,885,233
2092	\$15,611,254	\$5,961,176	\$0	\$36,383	\$1,625	\$21,610,438
2093	\$16,151,890	\$6,171,197	\$0	\$37,454	\$1,489	\$22,362,029
2094	\$16,712,557	\$6,388,625	\$0	\$38,559	\$1,355	\$23,141,096
2095	\$17,294,090	\$6,613,728	\$0	\$39,700	\$1,225	\$23,948,743
2096	\$17,897,331	\$6,846,775	\$0	\$40,876	\$1,100	\$24,786,083
2097	\$18,523,064	\$7,088,045	\$0	\$42,090	\$979	\$25,654,178
2098	\$19,171,962	\$7,337,825	\$0	\$43,341	\$865	\$26,553,994
2099	\$19,844,660	\$7,596,411	\$0	\$44,631	\$759	\$27,486,462

\*This projection includes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Total Projected Basic Pay</u>	<u>Total Projected Retired Outlays</u>	<u>Retired Outlays Over Basic Pay</u>
2001	\$40,921,617	\$34,093,468	83.3%
2002	\$42,797,067	\$35,261,015	82.4%
2003	\$44,424,631	\$36,376,305	81.9%
2004	\$46,049,065	\$37,544,074	81.5%
2005	\$47,712,857	\$38,713,235	81.1%
2006	\$49,422,775	\$39,954,132	80.8%
2007	\$51,198,532	\$41,218,098	80.5%
2008	\$53,073,406	\$42,426,134	79.9%
2009	\$55,034,528	\$43,600,830	79.2%
2010	\$57,091,169	\$44,904,758	78.7%
2011	\$59,026,240	\$46,236,310	78.3%
2012	\$61,039,633	\$47,566,914	77.9%
2013	\$63,127,189	\$48,899,148	77.5%
2014	\$65,321,364	\$50,222,464	76.9%
2015	\$67,640,481	\$51,536,358	76.2%
2016	\$70,055,012	\$52,875,622	75.5%
2017	\$72,528,098	\$54,263,830	74.8%
2018	\$75,101,143	\$55,676,922	74.1%
2019	\$77,807,542	\$57,109,878	73.4%
2020	\$80,609,385	\$58,590,274	72.7%
2021	\$83,488,114	\$60,129,177	72.0%
2022	\$86,471,893	\$61,729,348	71.4%
2023	\$89,561,293	\$63,394,292	70.8%
2024	\$92,752,151	\$65,126,054	70.2%
2025	\$96,048,813	\$66,917,295	69.7%
2026	\$99,458,725	\$68,771,978	69.1%
2027	\$102,970,876	\$70,703,906	68.7%
2028	\$106,593,426	\$72,798,467	68.3%
2029	\$110,339,305	\$74,966,856	67.9%
2030	\$114,205,954	\$77,359,030	67.7%
2031	\$118,191,681	\$79,842,028	67.6%
2032	\$122,305,083	\$82,421,076	67.4%
2033	\$126,555,943	\$85,100,764	67.2%
2034	\$130,950,370	\$87,867,214	67.1%
2035	\$135,498,333	\$90,717,179	67.0%
2036	\$140,206,208	\$93,660,985	66.8%
2037	\$145,076,056	\$96,711,031	66.7%
2038	\$150,118,511	\$99,861,221	66.5%
2039	\$155,345,943	\$103,127,385	66.4%
2040	\$160,764,292	\$106,523,743	66.3%
2041	\$166,378,073	\$110,042,361	66.1%
2042	\$172,194,151	\$113,691,852	66.0%
2043	\$178,220,675	\$117,474,580	65.9%
2044	\$184,464,552	\$121,402,380	65.8%
2045	\$190,932,948	\$125,472,315	65.7%
2046	\$197,633,773	\$129,687,749	65.6%
2047	\$204,571,758	\$134,061,285	65.5%
2048	\$211,754,057	\$138,601,097	65.5%
2049	\$219,190,422	\$143,315,164	65.4%
2050	\$226,887,548	\$148,215,018	65.3%

\*Basic pay includes reserve and active duty basic pay; outlays include retired pay and survivor benefits.

\*\*This projection includes reservists.

\*\*\*Future mortality improvement is assumed.

\*\*\*\*Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

**TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS (continued)**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Total Projected Basic Pay</u>	<u>Total Projected Retired Outlays</u>	<u>Retired Outlays Over Basic Pay</u>
2051	\$234,851,849	\$153,312,784	65.3%
2052	\$243,091,568	\$158,618,821	65.3%
2053	\$251,616,638	\$164,143,998	65.2%
2054	\$260,436,189	\$169,899,796	65.2%
2055	\$269,560,431	\$175,897,421	65.3%
2056	\$279,000,353	\$182,147,475	65.3%
2057	\$288,765,979	\$188,660,062	65.3%
2058	\$298,869,160	\$195,445,196	65.4%
2059	\$309,323,123	\$202,512,627	65.5%
2060	\$320,140,844	\$209,872,005	65.6%
2061	\$331,335,271	\$217,531,186	65.7%
2062	\$342,919,902	\$225,496,240	65.8%
2063	\$354,909,531	\$233,773,164	65.9%
2064	\$367,319,217	\$242,368,682	66.0%
2065	\$380,164,404	\$251,287,970	66.1%
2066	\$393,461,198	\$260,536,930	66.2%
2067	\$407,225,499	\$270,123,252	66.3%
2068	\$421,473,950	\$280,054,257	66.4%
2069	\$436,224,094	\$290,337,575	66.6%
2070	\$451,493,557	\$300,983,015	66.7%
2071	\$467,300,001	\$312,001,329	66.8%
2072	\$483,661,689	\$323,403,850	66.9%
2073	\$500,597,982	\$335,203,207	67.0%
2074	\$518,128,600	\$347,413,694	67.1%
2075	\$536,273,855	\$360,051,117	67.1%
2076	\$555,054,888	\$373,131,731	67.2%
2077	\$574,493,242	\$386,673,276	67.3%
2078	\$594,611,390	\$400,693,750	67.4%
2079	\$615,432,927	\$415,212,740	67.5%
2080	\$636,982,214	\$430,249,952	67.5%
2081	\$659,284,309	\$445,824,648	67.6%
2082	\$682,365,122	\$461,955,465	67.7%
2083	\$706,251,938	\$478,664,009	67.8%
2084	\$730,973,087	\$495,972,307	67.9%
2085	\$756,557,896	\$513,902,877	67.9%
2086	\$783,036,851	\$532,478,983	68.0%
2087	\$810,441,450	\$551,724,300	68.1%
2088	\$838,804,376	\$571,662,511	68.2%
2089	\$868,159,570	\$592,318,333	68.2%
2090	\$898,542,150	\$613,717,293	68.3%
2091	\$929,988,333	\$635,885,559	68.4%
2092	\$962,535,509	\$658,850,228	68.4%
2093	\$996,222,503	\$682,639,199	68.5%
2094	\$1,031,089,452	\$707,281,316	68.6%
2095	\$1,067,177,794	\$732,806,380	68.7%
2096	\$1,104,530,391	\$759,245,355	68.7%
2097	\$1,143,191,477	\$786,630,599	68.8%
2098	\$1,183,206,787	\$814,995,678	68.9%
2099	\$1,224,623,679	\$844,375,477	68.9%

\*Basic pay includes reserve and active duty basic pay; outlays include retired pay and survivor benefits.

\*\*This projection includes reservists.

\*\*\*Future mortality improvement is assumed.

\*\*\*\*Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

APPENDIX L

PROJECTIONS EXCLUDING RESERVISTS (100 YEARS)

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**TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR**

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2000	351,289	1,017,075	1,368,364	29,106	73,329	102,435	1,470,799
2001	351,517	1,018,748	1,370,265	27,974	72,226	100,200	1,470,465
2002	351,348	1,021,447	1,372,795	26,849	71,258	98,108	1,470,903
2003	351,180	1,024,775	1,375,955	25,737	70,334	96,071	1,472,026
2004	350,992	1,028,851	1,379,843	24,643	69,419	94,062	1,473,904
2005	350,722	1,032,654	1,383,375	23,575	68,492	92,067	1,475,442
2006	350,397	1,035,770	1,386,167	22,538	67,530	90,068	1,476,235
2007	350,004	1,037,380	1,387,384	21,543	66,539	88,082	1,475,466
2008	349,526	1,036,409	1,385,935	20,598	65,510	86,107	1,472,042
2009	349,020	1,034,227	1,383,247	19,708	64,476	84,185	1,467,432
2010	348,189	1,030,404	1,378,593	18,879	63,435	82,314	1,460,907
2011	347,207	1,025,206	1,372,413	18,113	62,391	80,504	1,452,917
2012	346,214	1,019,591	1,365,805	17,416	61,369	78,785	1,444,590
2013	345,024	1,013,189	1,358,214	16,787	60,362	77,149	1,435,363
2014	343,605	1,005,396	1,349,000	16,223	59,361	75,585	1,424,585
2015	341,978	996,578	1,338,555	15,723	58,374	74,097	1,412,653
2016	340,208	988,716	1,328,925	15,282	57,439	72,722	1,401,646
2017	338,370	981,658	1,320,027	14,895	56,552	71,447	1,391,474
2018	336,287	973,800	1,310,087	14,555	55,677	70,232	1,380,320
2019	334,113	965,739	1,299,852	14,257	54,828	69,085	1,368,937
2020	331,839	958,551	1,290,390	13,994	54,028	68,022	1,358,412
2021	329,741	951,375	1,281,116	13,763	53,257	67,020	1,348,136
2022	327,589	944,652	1,272,241	13,558	52,519	66,078	1,338,319
2023	325,506	938,325	1,263,832	13,375	51,816	65,191	1,329,023
2024	323,521	932,593	1,256,115	13,210	51,150	64,360	1,320,475
2025	321,569	927,238	1,248,806	13,060	50,515	63,575	1,312,381
2026	319,674	922,400	1,242,075	12,922	49,910	62,832	1,304,906
2027	317,903	918,094	1,235,997	12,796	49,336	62,132	1,298,129
2028	316,173	914,103	1,230,276	12,679	48,790	61,469	1,291,745
2029	314,525	910,399	1,224,924	12,570	48,270	60,840	1,285,764
2030	312,924	907,011	1,219,935	12,468	47,776	60,244	1,280,179
2031	311,417	903,813	1,215,229	12,374	47,307	59,681	1,274,910
2032	309,953	900,803	1,210,756	12,286	46,863	59,149	1,269,904
2033	308,531	897,917	1,206,448	12,204	46,443	58,647	1,265,095
2034	307,134	895,085	1,202,219	12,128	46,048	58,176	1,260,395
2035	305,745	892,245	1,197,990	12,058	45,677	57,735	1,255,726
2036	304,384	889,458	1,193,841	11,994	45,332	57,326	1,251,168
2037	303,046	886,737	1,189,783	11,936	45,013	56,949	1,246,732
2038	301,724	883,994	1,185,718	11,883	44,718	56,601	1,242,320
2039	300,432	881,241	1,181,673	11,837	44,446	56,283	1,237,955
2040	299,173	878,548	1,177,721	11,796	44,199	55,994	1,233,715
2041	297,979	875,878	1,173,857	11,760	43,974	55,734	1,229,592
2042	296,850	873,264	1,170,113	11,730	43,770	55,501	1,225,614
2043	295,795	870,747	1,166,543	11,705	43,588	55,293	1,221,836
2044	294,830	868,364	1,163,194	11,685	43,426	55,111	1,218,305
2045	293,954	866,129	1,160,083	11,668	43,284	54,952	1,215,036
2046	293,165	864,075	1,157,241	11,655	43,161	54,816	1,212,057
2047	292,481	862,239	1,154,720	11,644	43,056	54,701	1,209,420
2048	291,894	860,641	1,152,535	11,637	42,967	54,604	1,207,139
2049	291,412	859,310	1,150,723	11,632	42,893	54,525	1,205,248

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL NUMBER OF RETIREES ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)**

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2050	291,037	858,282	1,149,319	11,629	42,833	54,462	1,203,780
2051	290,773	857,553	1,148,326	11,627	42,785	54,412	1,202,738
2052	290,615	857,137	1,147,752	11,628	42,748	54,376	1,202,129
2053	290,563	857,036	1,147,600	11,630	42,721	54,351	1,201,951
2054	290,615	857,247	1,147,862	11,634	42,702	54,336	1,202,197
2055	290,764	857,751	1,148,514	11,638	42,691	54,329	1,202,843
2056	291,004	858,529	1,149,534	11,644	42,685	54,329	1,203,863
2057	291,332	859,562	1,150,893	11,651	42,684	54,335	1,205,228
2058	291,737	860,818	1,152,555	11,659	42,687	54,346	1,206,901
2059	292,212	862,269	1,154,480	11,667	42,693	54,360	1,208,840
2060	292,745	863,884	1,156,629	11,675	42,701	54,377	1,211,005
2061	293,328	865,624	1,158,951	11,684	42,711	54,395	1,213,346
2062	293,947	867,452	1,161,399	11,693	42,721	54,414	1,215,813
2063	294,589	869,338	1,163,927	11,701	42,732	54,433	1,218,360
2064	295,242	871,253	1,166,495	11,709	42,742	54,451	1,220,945
2065	295,894	873,168	1,169,062	11,715	42,752	54,468	1,223,529
2066	296,534	875,061	1,171,595	11,722	42,761	54,483	1,226,078
2067	297,154	876,919	1,174,073	11,727	42,770	54,496	1,228,570
2068	297,746	878,727	1,176,473	11,731	42,777	54,508	1,230,981
2069	298,305	880,475	1,178,780	11,734	42,783	54,517	1,233,297
2070	298,829	882,158	1,180,987	11,736	42,789	54,525	1,235,511
2071	299,318	883,772	1,183,090	11,737	42,793	54,530	1,237,621
2072	299,773	885,319	1,185,092	11,738	42,797	54,534	1,239,626
2073	300,196	886,802	1,186,999	11,737	42,799	54,537	1,241,536
2074	300,593	888,229	1,188,822	11,737	42,802	54,538	1,243,360
2075	300,967	889,605	1,190,572	11,736	42,803	54,539	1,245,111
2076	301,324	890,935	1,192,259	11,735	42,805	54,539	1,246,798
2077	301,669	892,228	1,193,896	11,733	42,806	54,539	1,248,435
2078	302,007	893,490	1,195,497	11,732	42,806	54,539	1,250,035
2079	302,343	894,726	1,197,070	11,731	42,807	54,538	1,251,608
2080	302,680	895,943	1,198,623	11,730	42,808	54,538	1,253,162
2081	303,019	897,134	1,200,153	11,730	42,808	54,538	1,254,691
2082	303,364	898,304	1,201,668	11,729	42,809	54,538	1,256,207
2083	303,714	899,459	1,203,173	11,729	42,810	54,539	1,257,712
2084	304,071	900,599	1,204,670	11,730	42,811	54,540	1,259,210
2085	304,433	901,728	1,206,161	11,730	42,811	54,541	1,260,702
2086	304,802	902,847	1,207,649	11,731	42,812	54,543	1,262,192
2087	305,175	903,957	1,209,132	11,731	42,813	54,544	1,263,677
2088	305,552	905,059	1,210,610	11,732	42,814	54,546	1,265,156
2089	305,930	906,153	1,212,083	11,733	42,815	54,548	1,266,631
2090	306,309	907,240	1,213,549	11,734	42,816	54,549	1,268,098
2091	306,686	908,321	1,215,007	11,735	42,816	54,551	1,269,558
2092	307,062	909,395	1,216,457	11,735	42,817	54,553	1,271,009
2093	307,434	910,463	1,217,896	11,736	42,818	54,554	1,272,450
2094	307,801	911,524	1,219,325	11,736	42,819	54,555	1,273,881
2095	308,164	912,579	1,220,743	11,737	42,820	54,556	1,275,299
2096	308,520	913,628	1,222,148	11,737	42,820	54,557	1,276,705
2097	308,872	914,669	1,223,541	11,737	42,821	54,558	1,278,099
2098	309,217	915,705	1,224,922	11,737	42,822	54,559	1,279,481
2099	309,557	916,735	1,226,292	11,737	42,822	54,559	1,280,851

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR**

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2001	\$14,091,353	\$16,651,753	\$30,743,106	\$705,510	\$615,844	\$1,321,354	\$32,064,460
2002	\$14,445,354	\$17,195,412	\$31,640,766	\$695,613	\$627,781	\$1,323,394	\$32,964,160
2003	\$14,750,480	\$17,717,059	\$32,467,539	\$683,733	\$638,924	\$1,322,656	\$33,790,195
2004	\$15,060,214	\$18,271,687	\$33,331,901	\$671,391	\$650,417	\$1,321,807	\$34,653,708
2005	\$15,359,498	\$18,833,977	\$34,193,475	\$658,098	\$661,525	\$1,319,623	\$35,513,098
2006	\$15,672,567	\$19,423,798	\$35,096,365	\$644,911	\$672,809	\$1,317,720	\$36,414,085
2007	\$15,979,220	\$19,999,055	\$35,978,275	\$631,482	\$683,665	\$1,315,147	\$37,293,422
2008	\$16,284,565	\$20,546,619	\$36,831,184	\$618,336	\$694,234	\$1,312,570	\$38,143,754
2009	\$16,596,545	\$21,076,315	\$37,672,860	\$605,954	\$704,837	\$1,310,791	\$38,983,651
2010	\$16,972,622	\$21,671,113	\$38,643,735	\$596,765	\$718,243	\$1,315,008	\$39,958,743
2011	\$17,371,251	\$22,279,211	\$39,650,463	\$589,378	\$732,624	\$1,322,002	\$40,972,465
2012	\$17,779,908	\$22,885,281	\$40,665,190	\$583,369	\$747,396	\$1,330,765	\$41,995,955
2013	\$18,198,263	\$23,490,126	\$41,688,389	\$578,973	\$762,685	\$1,341,659	\$43,030,048
2014	\$18,622,380	\$24,081,897	\$42,704,278	\$576,297	\$778,326	\$1,354,623	\$44,058,901
2015	\$19,051,156	\$24,655,658	\$43,706,814	\$575,453	\$794,312	\$1,369,765	\$45,076,579
2016	\$19,486,965	\$25,237,517	\$44,724,481	\$576,561	\$811,198	\$1,387,759	\$46,112,240
2017	\$19,932,725	\$25,846,899	\$45,779,623	\$579,603	\$829,394	\$1,408,996	\$47,188,619
2018	\$20,385,020	\$26,463,936	\$46,848,956	\$584,498	\$848,521	\$1,433,019	\$48,281,975
2019	\$20,842,775	\$27,082,122	\$47,924,896	\$591,187	\$868,444	\$1,459,631	\$49,384,527
2020	\$21,308,742	\$27,726,666	\$49,035,408	\$599,595	\$889,697	\$1,489,292	\$50,524,700
2021	\$21,791,367	\$28,397,769	\$50,189,136	\$609,680	\$912,347	\$1,522,027	\$51,711,163
2022	\$22,291,963	\$29,093,943	\$51,385,906	\$621,338	\$936,257	\$1,557,595	\$52,943,501
2023	\$22,808,739	\$29,824,305	\$52,633,044	\$634,454	\$961,574	\$1,596,028	\$54,229,072
2024	\$23,346,916	\$30,591,624	\$53,938,540	\$649,002	\$988,414	\$1,637,416	\$55,575,956
2025	\$23,906,535	\$31,396,222	\$55,302,757	\$664,920	\$1,016,808	\$1,681,728	\$56,984,485
2026	\$24,488,979	\$32,244,315	\$56,733,294	\$682,138	\$1,046,772	\$1,728,910	\$58,462,204
2027	\$25,100,509	\$33,142,053	\$58,242,562	\$700,682	\$1,078,389	\$1,779,072	\$60,021,634
2028	\$25,830,697	\$34,084,111	\$59,914,808	\$720,607	\$1,111,640	\$1,832,247	\$61,747,055
2029	\$26,590,639	\$35,067,946	\$61,658,585	\$741,840	\$1,146,493	\$1,888,333	\$63,546,918
2030	\$27,383,217	\$36,238,746	\$63,621,964	\$764,392	\$1,183,010	\$1,947,402	\$65,569,366
2031	\$28,217,785	\$37,453,672	\$65,671,457	\$788,349	\$1,221,210	\$2,009,560	\$67,681,017
2032	\$29,096,058	\$38,716,803	\$67,812,862	\$813,697	\$1,261,117	\$2,074,814	\$69,887,676
2033	\$30,011,252	\$40,036,681	\$70,047,933	\$840,394	\$1,302,777	\$2,143,170	\$72,191,103
2034	\$30,957,028	\$41,400,463	\$72,357,491	\$868,455	\$1,346,212	\$2,214,667	\$74,572,158
2035	\$31,934,019	\$42,802,280	\$74,736,300	\$897,890	\$1,391,453	\$2,289,343	\$77,025,643
2036	\$32,945,729	\$44,248,005	\$77,193,734	\$928,669	\$1,438,587	\$2,367,256	\$79,560,990
2037	\$33,995,624	\$45,744,096	\$79,739,720	\$960,815	\$1,487,709	\$2,448,524	\$82,188,244
2038	\$35,078,862	\$47,285,718	\$82,364,580	\$994,346	\$1,538,843	\$2,533,189	\$84,897,769
2039	\$36,203,726	\$48,878,255	\$85,081,981	\$1,029,275	\$1,592,008	\$2,621,283	\$87,703,264
2040	\$37,373,417	\$50,533,207	\$87,906,624	\$1,065,627	\$1,647,294	\$2,712,921	\$90,619,545
2041	\$38,583,202	\$52,247,370	\$90,830,573	\$1,103,440	\$1,704,770	\$2,808,210	\$93,638,783
2042	\$39,839,561	\$54,022,273	\$93,861,834	\$1,142,745	\$1,764,477	\$2,907,222	\$96,769,056
2043	\$41,142,208	\$55,860,566	\$97,002,774	\$1,183,558	\$1,826,496	\$3,010,054	\$100,012,828
2044	\$42,494,801	\$57,770,513	\$100,265,314	\$1,225,915	\$1,890,917	\$3,116,832	\$103,382,146
2045	\$43,896,954	\$59,748,511	\$103,645,466	\$1,269,853	\$1,957,819	\$3,227,671	\$106,873,137
2046	\$45,350,347	\$61,795,911	\$107,146,258	\$1,315,390	\$2,027,284	\$3,342,674	\$110,488,932
2047	\$46,859,350	\$63,920,105	\$110,779,455	\$1,362,569	\$2,099,407	\$3,461,975	\$114,241,430
2048	\$48,426,718	\$66,126,110	\$114,552,828	\$1,411,453	\$2,174,260	\$3,585,712	\$118,138,540
2049	\$50,055,299	\$68,417,914	\$118,473,213	\$1,462,088	\$2,251,915	\$3,714,003	\$122,187,216
2050	\$51,749,559	\$70,801,375	\$122,550,934	\$1,514,536	\$2,332,463	\$3,846,998	\$126,397,932

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.

**TOTAL ANNUAL RETIRED PAY FOR EACH FISCAL YEAR (continued)**

(Dollar Amounts in Thousands)

Fiscal Year	Nondisabled			Disabled			Grand Total
	Officers	Enlisted	Total	Officers	Enlisted	Total	
2051	\$53,514,722	\$73,282,557	\$126,797,279	\$1,568,887	\$2,415,992	\$3,984,878	\$130,782,157
2052	\$55,355,430	\$75,866,050	\$131,221,480	\$1,625,220	\$2,502,584	\$4,127,803	\$135,349,283
2053	\$57,275,178	\$78,557,328	\$135,832,506	\$1,683,604	\$2,592,328	\$4,275,932	\$140,108,438
2054	\$59,278,370	\$81,362,197	\$140,640,567	\$1,744,125	\$2,685,314	\$4,429,439	\$145,070,006
2055	\$61,369,455	\$84,285,936	\$145,655,391	\$1,806,869	\$2,781,629	\$4,588,498	\$150,243,889
2056	\$63,552,717	\$87,333,453	\$150,886,170	\$1,871,912	\$2,881,357	\$4,753,269	\$155,639,439
2057	\$65,832,217	\$90,509,305	\$156,341,522	\$1,939,327	\$2,984,599	\$4,923,926	\$161,265,448
2058	\$68,211,295	\$93,817,605	\$162,028,900	\$2,009,201	\$3,091,448	\$5,100,649	\$167,129,549
2059	\$70,693,354	\$97,262,679	\$167,956,033	\$2,081,604	\$3,201,996	\$5,283,600	\$173,239,633
2060	\$73,281,614	\$100,849,073	\$174,130,687	\$2,156,595	\$3,316,356	\$5,472,951	\$179,603,638
2061	\$75,978,805	\$104,579,680	\$180,558,485	\$2,234,242	\$3,434,638	\$5,668,881	\$186,227,366
2062	\$78,786,572	\$108,456,190	\$187,242,762	\$2,314,607	\$3,556,957	\$5,871,564	\$193,114,326
2063	\$81,705,531	\$112,481,361	\$194,186,892	\$2,397,737	\$3,683,435	\$6,081,172	\$200,268,064
2064	\$84,736,877	\$116,658,407	\$201,395,284	\$2,483,685	\$3,814,201	\$6,297,886	\$207,693,170
2065	\$87,881,103	\$120,989,483	\$208,870,586	\$2,572,505	\$3,949,391	\$6,521,896	\$215,392,482
2066	\$91,138,867	\$125,477,344	\$216,616,212	\$2,664,252	\$4,089,151	\$6,753,403	\$223,369,615
2067	\$94,511,475	\$130,125,751	\$224,637,226	\$2,758,992	\$4,233,641	\$6,992,633	\$231,629,859
2068	\$98,000,155	\$134,938,660	\$232,938,815	\$2,856,803	\$4,383,025	\$7,239,828	\$240,178,643
2069	\$101,606,616	\$139,920,101	\$241,526,717	\$2,957,775	\$4,537,480	\$7,495,255	\$249,021,972
2070	\$105,333,638	\$145,074,987	\$250,408,625	\$3,062,009	\$4,697,194	\$7,759,203	\$258,167,828
2071	\$109,184,901	\$150,408,751	\$259,593,652	\$3,169,630	\$4,862,361	\$8,031,991	\$267,625,643
2072	\$113,164,472	\$155,927,073	\$269,091,545	\$3,280,777	\$5,033,185	\$8,313,962	\$277,405,507
2073	\$117,276,927	\$161,636,515	\$278,913,442	\$3,395,599	\$5,209,877	\$8,605,476	\$287,518,918
2074	\$121,527,907	\$167,544,500	\$289,072,407	\$3,514,260	\$5,392,653	\$8,906,913	\$297,979,320
2075	\$125,923,621	\$173,658,814	\$299,582,435	\$3,636,936	\$5,581,747	\$9,218,683	\$308,801,118
2076	\$130,470,797	\$179,987,426	\$310,458,223	\$3,763,811	\$5,777,398	\$9,541,209	\$319,999,432
2077	\$135,177,020	\$186,538,733	\$321,715,753	\$3,895,078	\$5,979,847	\$9,874,925	\$331,590,678
2078	\$140,049,429	\$193,321,714	\$333,371,143	\$4,030,937	\$6,189,345	\$10,220,282	\$343,591,425
2079	\$145,095,834	\$200,345,897	\$345,441,731	\$4,171,585	\$6,406,154	\$10,577,739	\$356,019,470
2080	\$150,324,294	\$207,620,483	\$357,944,777	\$4,317,223	\$6,630,540	\$10,947,763	\$368,892,540
2081	\$155,742,672	\$215,154,203	\$370,896,875	\$4,468,050	\$6,862,779	\$11,330,829	\$382,227,704
2082	\$161,358,573	\$222,955,611	\$384,314,184	\$4,624,268	\$7,103,151	\$11,727,418	\$396,041,602
2083	\$167,179,988	\$231,035,087	\$398,215,075	\$4,786,074	\$7,351,945	\$12,138,019	\$410,353,094
2084	\$173,214,829	\$239,403,157	\$412,617,986	\$4,953,666	\$7,609,459	\$12,563,125	\$425,181,111
2085	\$179,470,933	\$248,070,500	\$427,541,433	\$5,127,242	\$7,876,000	\$13,003,242	\$440,544,675
2086	\$185,956,289	\$257,048,207	\$443,004,496	\$5,306,999	\$8,151,882	\$13,458,882	\$456,463,378
2087	\$192,678,923	\$266,347,688	\$459,026,611	\$5,493,137	\$8,437,433	\$13,930,571	\$472,957,182
2088	\$199,646,621	\$275,980,505	\$475,627,126	\$5,685,859	\$8,732,990	\$14,418,849	\$490,045,975
2089	\$206,867,486	\$285,958,694	\$492,826,180	\$5,885,371	\$9,038,899	\$14,924,271	\$507,750,451
2090	\$214,349,763	\$296,294,754	\$510,644,517	\$6,091,888	\$9,355,523	\$15,447,410	\$526,091,927
2091	\$222,101,964	\$307,001,599	\$529,103,563	\$6,305,630	\$9,683,232	\$15,988,862	\$545,092,425
2092	\$230,132,865	\$318,092,451	\$548,225,316	\$6,526,829	\$10,022,413	\$16,549,242	\$564,774,558
2093	\$238,451,453	\$329,581,057	\$568,032,510	\$6,755,726	\$10,373,466	\$17,129,192	\$585,161,702
2094	\$247,067,122	\$341,481,689	\$588,548,811	\$6,992,576	\$10,736,804	\$17,729,380	\$606,278,191
2095	\$255,989,663	\$353,809,028	\$609,798,691	\$7,237,644	\$11,112,856	\$18,350,500	\$628,149,191
2096	\$265,229,417	\$366,578,229	\$631,807,646	\$7,491,212	\$11,502,067	\$18,993,279	\$650,800,925
2097	\$274,797,362	\$379,805,083	\$654,602,445	\$7,753,574	\$11,904,898	\$19,658,471	\$674,260,916
2098	\$284,704,997	\$393,505,995	\$678,210,992	\$8,025,041	\$12,321,824	\$20,346,865	\$698,557,857
2099	\$294,964,416	\$407,697,954	\$702,662,370	\$8,305,939	\$12,753,341	\$21,059,280	\$723,721,650

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Beginning with the FY97 valuation book, this projection includes an adjustment for TERA retirees.



## RETIREE GAIN STATEMENT

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2001	8,396	25,240	478	2,978	\$40,646	\$17,553	\$26,608	\$9,496
2002	8,260	26,917	476	3,012	\$41,424	\$17,994	\$27,625	\$9,921
2003	8,501	28,160	477	3,031	\$42,403	\$18,675	\$28,656	\$10,360
2004	8,698	29,511	479	3,048	\$43,344	\$19,304	\$29,633	\$10,800
2005	8,806	29,838	480	3,043	\$44,643	\$20,121	\$30,623	\$11,234
2006	8,919	29,773	482	3,031	\$46,213	\$21,049	\$31,710	\$11,670
2007	8,988	28,893	482	3,000	\$47,097	\$21,501	\$32,848	\$12,098
2008	9,004	26,909	483	2,955	\$48,347	\$22,527	\$33,960	\$12,522
2009	9,050	26,251	484	2,939	\$49,909	\$23,282	\$35,206	\$12,964
2010	8,777	25,116	482	2,917	\$52,076	\$24,385	\$36,506	\$13,431
2011	8,647	24,205	480	2,897	\$53,880	\$25,394	\$37,737	\$13,884
2012	8,642	24,221	480	2,898	\$55,697	\$26,177	\$38,977	\$14,370
2013	8,444	23,816	478	2,893	\$57,903	\$26,928	\$40,280	\$14,834
2014	8,208	22,749	474	2,875	\$60,301	\$28,022	\$41,572	\$15,300
2015	7,995	21,985	472	2,863	\$62,533	\$28,867	\$42,933	\$15,768
2016	7,833	23,100	470	2,886	\$65,016	\$29,377	\$44,382	\$16,340
2017	7,754	23,995	467	2,907	\$67,053	\$29,849	\$45,769	\$16,920
2018	7,510	23,220	464	2,893	\$69,801	\$31,004	\$47,244	\$17,478
2019	7,428	22,968	461	2,888	\$71,809	\$32,150	\$48,733	\$18,082
2020	7,342	23,727	460	2,906	\$74,186	\$33,227	\$50,292	\$18,785
2021	7,532	23,549	460	2,905	\$75,746	\$34,306	\$51,908	\$19,447
2022	7,493	23,763	460	2,908	\$78,240	\$35,617	\$53,583	\$20,152
2023	7,577	23,881	460	2,911	\$80,186	\$36,928	\$55,369	\$20,889
2024	7,688	24,169	462	2,918	\$82,433	\$38,099	\$57,256	\$21,650
2025	7,732	24,232	462	2,921	\$84,803	\$39,399	\$59,244	\$22,436
2026	7,797	24,434	463	2,923	\$87,659	\$41,021	\$61,346	\$23,261
2027	7,927	24,644	465	2,927	\$90,533	\$42,510	\$63,667	\$24,107
2028	7,974	24,649	467	2,928	\$93,707	\$43,932	\$66,123	\$24,958
2029	8,061	24,653	468	2,927	\$97,041	\$45,487	\$68,566	\$25,842
2030	8,112	24,715	470	2,927	\$100,879	\$47,257	\$71,259	\$26,764
2031	8,204	24,677	472	2,926	\$105,233	\$48,941	\$74,096	\$27,705
2032	8,242	24,673	473	2,926	\$109,031	\$50,696	\$76,918	\$28,676
2033	8,274	24,644	474	2,925	\$113,256	\$52,503	\$79,784	\$29,680
2034	8,281	24,575	474	2,923	\$117,629	\$54,436	\$82,777	\$30,715
2035	8,261	24,472	474	2,921	\$122,138	\$56,386	\$85,769	\$31,781
2036	8,251	24,460	474	2,921	\$126,817	\$58,343	\$88,808	\$32,887
2037	8,225	24,480	474	2,921	\$131,378	\$60,372	\$91,916	\$34,034
2038	8,177	24,411	473	2,919	\$136,271	\$62,502	\$95,105	\$35,215
2039	8,130	24,349	473	2,918	\$141,232	\$64,699	\$98,371	\$36,436
2040	8,077	24,352	472	2,918	\$146,242	\$66,924	\$101,727	\$37,705
2041	8,053	24,322	471	2,918	\$151,286	\$69,247	\$105,182	\$39,017
2042	8,020	24,302	471	2,918	\$156,598	\$71,662	\$108,756	\$40,377
2043	7,990	24,294	470	2,918	\$161,937	\$74,157	\$112,443	\$41,786
2044	7,971	24,298	470	2,918	\$167,386	\$76,717	\$116,254	\$43,246
2045	7,950	24,292	469	2,918	\$173,034	\$79,377	\$120,196	\$44,758
2046	7,935	24,307	469	2,918	\$178,882	\$82,151	\$124,293	\$46,327
2047	7,937	24,327	469	2,919	\$184,908	\$85,015	\$128,551	\$47,952
2048	7,933	24,337	468	2,919	\$191,113	\$87,967	\$132,987	\$49,633
2049	7,939	24,346	468	2,919	\$197,577	\$91,033	\$137,582	\$51,373
2050	7,947	24,365	468	2,920	\$204,303	\$94,222	\$142,379	\$53,176

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

**RETIREE GAIN STATEMENT (continued)**

Fiscal Year	Gains During the Fiscal Year				Average Starting Net Retired Pay Before CPI Increase			
	Nondisabled		Disabled		Nondisabled		Disabled	
	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted	Officers	Enlisted
2051	7,968	24,376	469	2,920	\$211,329	\$97,515	\$147,382	\$55,041
2052	7,985	24,388	469	2,920	\$218,592	\$100,927	\$152,571	\$56,972
2053	8,002	24,398	469	2,921	\$226,152	\$104,463	\$157,954	\$58,970
2054	8,021	24,406	470	2,921	\$234,059	\$108,130	\$163,558	\$61,038
2055	8,035	24,408	470	2,921	\$242,273	\$111,925	\$169,359	\$63,177
2056	8,050	24,413	470	2,921	\$250,822	\$115,852	\$175,366	\$65,391
2057	8,063	24,419	470	2,921	\$259,697	\$119,914	\$181,589	\$67,683
2058	8,070	24,419	471	2,921	\$268,924	\$124,121	\$188,033	\$70,053
2059	8,075	24,417	471	2,921	\$278,511	\$128,475	\$194,689	\$72,506
2060	8,076	24,417	471	2,921	\$288,428	\$132,979	\$201,572	\$75,044
2061	8,078	24,416	471	2,921	\$298,691	\$137,639	\$208,685	\$77,670
2062	8,077	24,413	471	2,921	\$309,305	\$142,462	\$216,030	\$80,388
2063	8,073	24,411	471	2,921	\$320,266	\$147,453	\$223,614	\$83,201
2064	8,068	24,409	471	2,921	\$331,584	\$152,616	\$231,447	\$86,113
2065	8,062	24,406	471	2,921	\$343,269	\$157,958	\$239,536	\$89,126
2066	8,055	24,405	471	2,921	\$355,354	\$163,487	\$247,893	\$92,244
2067	8,048	24,405	471	2,921	\$367,808	\$169,209	\$256,530	\$95,473
2068	8,042	24,404	470	2,921	\$380,672	\$175,128	\$265,463	\$98,814
2069	8,035	24,403	470	2,921	\$393,960	\$181,255	\$274,699	\$102,272
2070	8,030	24,404	470	2,921	\$407,687	\$187,596	\$284,257	\$105,852
2071	8,027	24,405	470	2,921	\$421,879	\$194,159	\$294,154	\$109,557
2072	8,025	24,406	470	2,921	\$436,550	\$200,951	\$304,401	\$113,392
2073	8,023	24,408	470	2,921	\$451,721	\$207,982	\$315,011	\$117,362
2074	8,023	24,409	470	2,921	\$467,424	\$215,259	\$326,003	\$121,471
2075	8,024	24,411	470	2,921	\$483,680	\$222,792	\$337,388	\$125,724
2076	8,025	24,412	470	2,921	\$500,515	\$230,589	\$349,181	\$130,126
2077	8,028	24,414	470	2,921	\$517,954	\$238,659	\$361,399	\$134,682
2078	8,031	24,416	470	2,921	\$536,019	\$247,013	\$374,056	\$139,398
2079	8,034	24,418	470	2,921	\$554,740	\$255,659	\$387,165	\$144,278
2080	8,037	24,419	470	2,921	\$574,139	\$264,609	\$400,741	\$149,330
2081	8,040	24,421	470	2,921	\$594,238	\$273,872	\$414,801	\$154,558
2082	8,043	24,422	470	2,921	\$615,057	\$283,460	\$429,358	\$159,970
2083	8,045	24,423	470	2,921	\$636,620	\$293,383	\$444,426	\$165,570
2084	8,047	24,424	470	2,921	\$658,953	\$303,654	\$460,021	\$171,367
2085	8,049	24,425	470	2,921	\$682,078	\$314,285	\$476,161	\$177,366
2086	8,050	24,425	470	2,921	\$706,023	\$325,287	\$492,861	\$183,575
2087	8,050	24,426	470	2,921	\$730,805	\$336,675	\$510,141	\$190,001
2088	8,050	24,426	470	2,921	\$756,453	\$348,461	\$528,019	\$196,652
2089	8,050	24,427	470	2,921	\$782,996	\$360,659	\$546,516	\$203,536
2090	8,049	24,427	470	2,921	\$810,459	\$373,284	\$565,653	\$210,661
2091	8,048	24,428	470	2,921	\$838,873	\$386,350	\$585,454	\$218,035
2092	8,047	24,428	470	2,921	\$868,270	\$399,874	\$605,941	\$225,667
2093	8,046	24,429	470	2,921	\$898,680	\$413,870	\$627,138	\$233,567
2094	8,045	24,429	470	2,921	\$930,142	\$428,357	\$649,074	\$241,742
2095	8,044	24,430	470	2,921	\$962,691	\$443,350	\$671,773	\$250,204
2096	8,044	24,430	470	2,921	\$996,368	\$458,868	\$695,264	\$258,963
2097	8,043	24,430	470	2,921	\$1,031,214	\$474,929	\$719,577	\$268,028
2098	8,042	24,431	470	2,921	\$1,067,271	\$491,552	\$744,742	\$277,410
2099	8,042	24,431	470	2,921	\$1,104,586	\$508,757	\$770,789	\$287,120

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

\*\*\*Gains during the year include those people who die before year end. All dollar figures are after total and partial VA offsets.

**TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR**

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2000	209,348	25,135	512	2,064	16,230	253,289
2001	215,131	24,633	473	2,072	16,125	258,435
2002	220,511	24,118	437	2,081	15,994	263,140
2003	225,420	23,578	403	2,090	15,835	267,325
2004	229,768	23,009	370	2,098	15,633	270,879
2005	233,542	22,413	340	2,106	15,386	273,787
2006	236,707	21,786	310	2,111	15,092	276,006
2007	239,236	21,130	283	2,113	14,747	277,508
2008	241,016	20,443	257	2,110	14,310	278,135
2009	242,101	19,726	232	2,103	13,801	277,964
2010	242,558	18,982	209	2,091	13,243	277,084
2011	242,426	18,213	188	2,076	12,640	275,542
2012	241,723	17,420	168	2,057	11,994	273,362
2013	240,479	16,606	150	2,036	11,310	270,581
2014	238,733	15,775	133	2,011	10,595	267,247
2015	236,528	14,930	118	1,983	9,856	263,415
2016	233,935	14,078	104	1,955	9,104	259,176
2017	231,011	13,224	91	1,926	8,349	254,601
2018	227,810	12,375	80	1,896	7,598	249,759
2019	224,382	11,535	70	1,864	6,863	244,715
2020	220,779	10,712	61	1,834	6,152	239,539
2021	217,052	9,910	54	1,804	5,473	234,293
2022	213,243	9,137	47	1,774	4,834	229,034
2023	209,392	8,395	41	1,745	4,238	223,810
2024	205,529	7,690	35	1,717	3,690	218,660
2025	201,681	7,022	31	1,690	3,191	213,614
2026	197,866	6,393	27	1,665	2,743	208,694
2027	194,107	5,804	23	1,641	2,345	203,920
2028	190,422	5,254	20	1,619	1,995	199,310
2029	186,833	4,744	17	1,598	1,690	194,883
2030	183,361	4,271	15	1,579	1,428	190,655
2031	180,022	3,835	13	1,561	1,205	186,637
2032	176,834	3,434	11	1,545	1,019	182,844
2033	173,813	3,066	10	1,531	865	179,285
2034	170,967	2,730	8	1,518	739	175,963
2035	168,299	2,425	7	1,506	637	172,875
2036	165,803	2,148	6	1,495	557	170,009
2037	163,468	1,897	5	1,486	493	167,349
2038	161,278	1,671	5	1,478	443	164,874
2039	159,217	1,468	4	1,471	403	162,562
2040	157,262	1,286	3	1,464	371	160,387
2041	155,396	1,124	3	1,458	346	158,326
2042	153,594	979	2	1,453	325	156,353
2043	151,837	852	2	1,448	307	154,446
2044	150,108	739	2	1,443	292	152,583
2045	148,389	640	1	1,438	278	150,747
2046	146,674	553	1	1,434	266	148,928
2047	144,954	478	1	1,429	255	147,116
2048	143,221	412	1	1,424	245	145,303
2049	141,476	355	1	1,419	236	143,486

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL NUMBER OF SURVIVORS ON SEPTEMBER 30 OF EACH FISCAL YEAR (continued)**

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2050	139,719	307	1	1,413	227	141,667
2051	137,962	265	1	1,407	219	139,853
2052	136,211	229	1	1,400	212	138,053
2053	134,476	198	0	1,393	205	136,273
2054	132,766	172	0	1,386	199	134,523
2055	131,091	150	0	1,377	193	132,812
2056	129,464	131	0	1,369	188	131,152
2057	127,901	114	0	1,360	183	129,558
2058	126,412	101	0	1,350	179	128,042
2059	125,011	89	0	1,340	175	126,615
2060	123,701	79	0	1,331	171	125,281
2061	122,506	70	0	1,320	168	124,064
2062	121,437	62	0	1,310	165	122,975
2063	120,504	55	0	1,300	162	122,021
2064	119,711	49	0	1,290	160	121,210
2065	119,062	44	0	1,281	157	120,543
2066	118,555	39	0	1,271	154	120,020
2067	118,189	34	0	1,262	152	119,637
2068	117,954	30	0	1,253	149	119,387
2069	117,838	26	0	1,244	147	119,256
2070	117,825	23	0	1,236	144	119,229
2071	117,900	20	0	1,228	141	119,289
2072	118,045	17	0	1,220	138	119,421
2073	118,243	15	0	1,213	134	119,605
2074	118,475	13	0	1,205	131	119,824
2075	118,728	11	0	1,198	127	120,063
2076	118,986	9	0	1,190	123	120,308
2077	119,236	7	0	1,183	119	120,545
2078	119,467	6	0	1,176	115	120,764
2079	119,673	5	0	1,169	110	120,957
2080	119,847	4	0	1,161	105	121,118
2081	119,989	3	0	1,154	100	121,246
2082	120,096	3	0	1,147	95	121,340
2083	120,170	2	0	1,140	89	121,401
2084	120,214	2	0	1,133	84	121,433
2085	120,236	1	0	1,126	78	121,441
2086	120,240	1	0	1,119	73	121,433
2087	120,229	1	0	1,112	67	121,410
2088	120,209	1	0	1,105	62	121,376
2089	120,183	1	0	1,099	56	121,339
2090	120,155	0	0	1,092	51	121,299
2091	120,127	0	0	1,086	46	121,259
2092	120,104	0	0	1,079	41	121,225
2093	120,088	0	0	1,073	37	121,198
2094	120,079	0	0	1,067	32	121,179
2095	120,079	0	0	1,061	28	121,168
2096	120,087	0	0	1,055	25	121,167
2097	120,105	0	0	1,049	21	121,175
2098	120,129	0	0	1,044	18	121,191
2099	120,160	0	0	1,038	16	121,214

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2001	\$1,769,887	\$114,506	\$2,807	\$14,823	\$45,855	\$1,947,879
2002	\$1,856,812	\$114,690	\$2,647	\$14,958	\$46,620	\$2,035,727
2003	\$1,942,017	\$114,546	\$2,490	\$15,119	\$47,234	\$2,121,406
2004	\$2,026,942	\$114,288	\$2,339	\$15,244	\$47,757	\$2,206,570
2005	\$2,108,604	\$113,735	\$2,191	\$15,350	\$48,110	\$2,287,990
2006	\$2,189,483	\$113,052	\$2,049	\$15,446	\$48,334	\$2,368,364
2007	\$2,267,136	\$112,116	\$1,909	\$15,532	\$48,359	\$2,445,052
2008	\$2,315,168	\$110,550	\$1,773	\$15,493	\$48,122	\$2,491,106
2009	\$2,356,595	\$108,641	\$1,641	\$15,358	\$47,568	\$2,529,803
2010	\$2,402,653	\$106,815	\$1,519	\$15,174	\$46,915	\$2,573,077
2011	\$2,448,436	\$104,896	\$1,403	\$15,190	\$46,072	\$2,615,997
2012	\$2,491,244	\$102,818	\$1,292	\$15,128	\$44,977	\$2,655,458
2013	\$2,527,224	\$100,502	\$1,186	\$14,986	\$43,626	\$2,687,525
2014	\$2,558,711	\$97,906	\$1,086	\$14,980	\$42,028	\$2,714,711
2015	\$2,586,012	\$94,988	\$991	\$14,788	\$40,195	\$2,736,975
2016	\$2,609,782	\$91,826	\$902	\$14,682	\$38,153	\$2,755,346
2017	\$2,630,242	\$88,453	\$819	\$14,582	\$35,937	\$2,770,033
2018	\$2,647,940	\$84,833	\$742	\$14,362	\$33,583	\$2,781,460
2019	\$2,663,034	\$80,997	\$671	\$14,139	\$31,133	\$2,789,975
2020	\$2,676,631	\$77,017	\$606	\$13,849	\$28,632	\$2,796,735
2021	\$2,689,086	\$72,990	\$547	\$13,565	\$26,125	\$2,802,313
2022	\$2,701,082	\$68,919	\$492	\$13,231	\$23,657	\$2,807,381
2023	\$2,713,005	\$64,820	\$443	\$12,869	\$21,266	\$2,812,404
2024	\$2,724,882	\$60,755	\$398	\$12,495	\$18,987	\$2,817,518
2025	\$2,737,492	\$56,775	\$358	\$12,096	\$16,848	\$2,823,569
2026	\$2,750,779	\$52,886	\$321	\$11,717	\$14,867	\$2,830,570
2027	\$2,764,886	\$49,123	\$288	\$11,329	\$13,059	\$2,838,685
2028	\$2,780,059	\$45,491	\$258	\$10,942	\$11,428	\$2,848,179
2029	\$2,797,486	\$41,995	\$231	\$10,591	\$9,978	\$2,860,281
2030	\$2,817,248	\$38,667	\$207	\$10,260	\$8,702	\$2,875,084
2031	\$2,840,133	\$35,496	\$185	\$9,990	\$7,596	\$2,893,400
2032	\$2,866,970	\$32,487	\$165	\$9,787	\$6,650	\$2,916,059
2033	\$2,898,347	\$29,639	\$147	\$9,646	\$5,855	\$2,943,633
2034	\$2,935,017	\$26,954	\$130	\$9,542	\$5,194	\$2,976,838
2035	\$2,976,304	\$24,431	\$115	\$9,462	\$4,656	\$3,014,968
2036	\$3,021,773	\$22,070	\$102	\$9,419	\$4,224	\$3,057,588
2037	\$3,071,497	\$19,868	\$90	\$9,439	\$3,883	\$3,104,778
2038	\$3,126,333	\$17,825	\$79	\$9,516	\$3,616	\$3,157,370
2039	\$3,186,990	\$15,940	\$69	\$9,633	\$3,409	\$3,216,043
2040	\$3,252,434	\$14,212	\$61	\$9,776	\$3,249	\$3,279,731
2041	\$3,322,268	\$12,636	\$54	\$9,955	\$3,124	\$3,348,036
2042	\$3,396,404	\$11,210	\$47	\$10,143	\$3,024	\$3,420,828
2043	\$3,474,038	\$9,929	\$41	\$10,329	\$2,942	\$3,497,280
2044	\$3,554,229	\$8,787	\$36	\$10,532	\$2,874	\$3,576,460
2045	\$3,637,040	\$7,774	\$32	\$10,742	\$2,816	\$3,658,405
2046	\$3,721,983	\$6,882	\$28	\$10,962	\$2,765	\$3,742,620
2047	\$3,809,105	\$6,100	\$25	\$11,184	\$2,719	\$3,829,133
2048	\$3,897,774	\$5,415	\$22	\$11,418	\$2,678	\$3,917,308
2049	\$3,988,034	\$4,819	\$20	\$11,665	\$2,641	\$4,007,179
2050	\$4,079,890	\$4,301	\$18	\$11,921	\$2,607	\$4,098,738

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL ANNUAL SURVIVOR BENEFITS FOR EACH FISCAL YEAR (continued)**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>SBP</u>	<u>RCSBP</u>	<u>Minimum Income</u>	<u>Death on Active Duty</u>	<u>RSFPP</u>	<u>Total</u>
2051	\$4,173,109	\$3,851	\$16	\$12,187	\$2,578	\$4,191,742
2052	\$4,267,568	\$3,462	\$15	\$12,464	\$2,553	\$4,286,063
2053	\$4,363,752	\$3,123	\$15	\$12,753	\$2,534	\$4,382,176
2054	\$4,461,596	\$2,828	\$14	\$13,053	\$2,519	\$4,480,010
2055	\$4,561,237	\$2,572	\$14	\$13,365	\$2,510	\$4,579,698
2056	\$4,662,861	\$2,349	\$13	\$13,693	\$2,507	\$4,681,423
2057	\$4,766,675	\$2,152	\$13	\$14,036	\$2,509	\$4,785,385
2058	\$4,873,910	\$1,977	\$13	\$14,394	\$2,516	\$4,892,810
2059	\$4,985,209	\$1,821	\$13	\$14,768	\$2,529	\$5,004,342
2060	\$5,101,177	\$1,683	\$13	\$15,158	\$2,547	\$5,120,579
2061	\$5,222,797	\$1,557	\$13	\$15,565	\$2,570	\$5,242,503
2062	\$5,351,441	\$1,441	\$13	\$15,989	\$2,597	\$5,371,481
2063	\$5,488,365	\$1,333	\$13	\$16,427	\$2,628	\$5,508,766
2064	\$5,634,514	\$1,232	\$13	\$16,879	\$2,660	\$5,655,299
2065	\$5,790,997	\$1,137	\$13	\$17,345	\$2,694	\$5,812,186
2066	\$5,958,911	\$1,046	\$13	\$17,825	\$2,730	\$5,980,524
2067	\$6,139,390	\$958	\$13	\$18,317	\$2,766	\$6,161,444
2068	\$6,332,937	\$873	\$13	\$18,824	\$2,800	\$6,355,447
2069	\$6,539,805	\$792	\$12	\$19,343	\$2,833	\$6,562,787
2070	\$6,760,384	\$715	\$12	\$19,876	\$2,864	\$6,783,850
2071	\$6,994,580	\$640	\$11	\$20,421	\$2,892	\$7,018,544
2072	\$7,242,133	\$569	\$11	\$20,979	\$2,915	\$7,266,607
2073	\$7,502,603	\$502	\$10	\$21,551	\$2,934	\$7,527,599
2074	\$7,775,145	\$439	\$10	\$22,136	\$2,945	\$7,800,675
2075	\$8,059,379	\$381	\$9	\$22,736	\$2,950	\$8,085,455
2076	\$8,354,713	\$327	\$8	\$23,352	\$2,947	\$8,381,347
2077	\$8,660,583	\$278	\$7	\$23,984	\$2,936	\$8,687,789
2078	\$8,976,410	\$235	\$7	\$24,634	\$2,916	\$9,004,201
2079	\$9,301,818	\$196	\$6	\$25,303	\$2,886	\$9,330,208
2080	\$9,636,573	\$163	\$5	\$25,991	\$2,845	\$9,665,577
2081	\$9,980,912	\$134	\$4	\$26,701	\$2,794	\$10,010,545
2082	\$10,334,719	\$110	\$3	\$27,437	\$2,732	\$10,365,002
2083	\$10,698,215	\$89	\$3	\$28,198	\$2,659	\$10,729,164
2084	\$11,071,875	\$72	\$2	\$28,987	\$2,574	\$11,103,511
2085	\$11,456,491	\$58	\$2	\$29,805	\$2,480	\$11,488,834
2086	\$11,852,902	\$46	\$1	\$30,651	\$2,375	\$11,885,975
2087	\$12,261,851	\$36	\$1	\$31,527	\$2,261	\$12,295,676
2088	\$12,684,136	\$28	\$1	\$32,434	\$2,140	\$12,718,738
2089	\$13,120,698	\$21	\$1	\$33,373	\$2,013	\$13,156,105
2090	\$13,572,434	\$17	\$0	\$34,343	\$1,882	\$13,608,677
2091	\$14,040,128	\$13	\$0	\$35,346	\$1,748	\$14,077,236
2092	\$14,524,766	\$10	\$0	\$36,383	\$1,613	\$14,562,773
2093	\$15,027,317	\$8	\$0	\$37,454	\$1,480	\$15,066,259
2094	\$15,548,565	\$6	\$0	\$38,559	\$1,348	\$15,588,478
2095	\$16,089,287	\$4	\$0	\$39,700	\$1,220	\$16,130,211
2096	\$16,650,284	\$3	\$0	\$40,876	\$1,096	\$16,692,260
2097	\$17,232,283	\$2	\$0	\$42,090	\$976	\$17,275,351
2098	\$17,835,899	\$2	\$0	\$43,341	\$863	\$17,880,105
2099	\$18,461,713	\$1	\$0	\$44,631	\$758	\$18,507,103

\*This projection excludes reservists.

\*\*Future mortality improvement is assumed.

**TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Total Projected Basic Pay</u>	<u>Total Projected Retired Outlays</u>	<u>Retired Outlays Over Basic Pay</u>
2001	\$36,814,505	\$34,025,363	92.4%
2002	\$38,508,955	\$35,047,534	91.0%
2003	\$39,983,929	\$35,994,257	90.0%
2004	\$41,453,580	\$36,977,670	89.2%
2005	\$42,955,754	\$37,952,462	88.4%
2006	\$44,500,503	\$38,966,915	87.6%
2007	\$46,103,810	\$39,955,129	86.7%
2008	\$47,795,478	\$40,870,882	85.5%
2009	\$49,563,906	\$41,767,336	84.3%
2010	\$51,417,302	\$42,803,004	83.2%
2011	\$53,161,289	\$43,875,791	82.5%
2012	\$54,974,960	\$44,953,307	81.8%
2013	\$56,854,570	\$46,032,351	81.0%
2014	\$58,832,333	\$47,099,521	80.1%
2015	\$60,926,876	\$48,148,806	79.0%
2016	\$63,109,083	\$49,210,345	78.0%
2017	\$65,341,837	\$50,307,057	77.0%
2018	\$67,666,217	\$51,415,618	76.0%
2019	\$70,115,401	\$52,528,589	74.9%
2020	\$72,651,703	\$53,675,547	73.9%
2021	\$75,256,428	\$54,865,733	72.9%
2022	\$77,956,982	\$56,099,397	72.0%
2023	\$80,753,267	\$57,384,363	71.1%
2024	\$83,640,206	\$58,728,847	70.2%
2025	\$86,621,020	\$60,134,023	69.4%
2026	\$89,702,625	\$61,607,456	68.7%
2027	\$92,873,911	\$63,161,870	68.0%
2028	\$96,142,890	\$64,881,884	67.5%
2029	\$99,522,356	\$66,677,305	67.0%
2030	\$103,009,562	\$68,696,559	66.7%
2031	\$106,602,326	\$70,807,313	66.4%
2032	\$110,308,550	\$73,016,494	66.2%
2033	\$114,137,643	\$75,326,780	66.0%
2034	\$118,095,616	\$77,720,123	65.8%
2035	\$122,192,122	\$80,190,982	65.6%
2036	\$126,433,004	\$82,748,738	65.4%
2037	\$130,819,771	\$85,403,853	65.3%
2038	\$135,362,576	\$88,147,835	65.1%
2039	\$140,073,166	\$90,995,335	65.0%
2040	\$144,956,787	\$93,960,325	64.8%
2041	\$150,017,257	\$97,034,723	64.7%
2042	\$155,260,759	\$100,226,544	64.6%
2043	\$160,694,715	\$103,537,421	64.4%
2044	\$166,325,269	\$106,978,393	64.3%
2045	\$172,158,864	\$110,545,477	64.2%
2046	\$178,202,680	\$114,241,087	64.1%
2047	\$184,460,668	\$118,076,903	64.0%
2048	\$190,939,174	\$122,059,964	63.9%
2049	\$197,647,115	\$126,197,049	63.8%
2050	\$204,590,323	\$130,498,451	63.8%

\*Outlays include retired pay and survivor benefits.

\*\*This projection excludes reservists.

\*\*\*Future mortality improvement is assumed.

\*\*\*\*Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.

**TOTAL PROJECTED BASIC PAY AND RETIRED APPROPRIATION OUTLAYS (continued)**

(Dollar Amounts in Thousands)

<u>Fiscal Year</u>	<u>Total Projected Basic Pay</u>	<u>Total Projected Retired Outlays</u>	<u>Retired Outlays Over Basic Pay</u>
2051	\$211,774,315	\$134,975,230	63.7%
2052	\$219,206,408	\$139,636,527	63.7%
2053	\$226,895,579	\$144,491,840	63.7%
2054	\$234,849,966	\$149,551,457	63.7%
2055	\$243,078,757	\$154,825,378	63.7%
2056	\$251,591,881	\$160,323,033	63.7%
2057	\$260,398,263	\$166,053,351	63.8%
2058	\$269,508,618	\$172,025,197	63.8%
2059	\$278,934,999	\$178,247,100	63.9%
2060	\$288,689,166	\$184,727,598	64.0%
2061	\$298,782,806	\$191,473,477	64.1%
2062	\$309,228,117	\$198,489,618	64.2%
2063	\$320,038,544	\$205,780,819	64.3%
2064	\$331,227,748	\$213,352,617	64.4%
2065	\$342,809,733	\$221,208,959	64.5%
2066	\$354,799,108	\$229,354,557	64.6%
2067	\$367,210,228	\$237,795,835	64.8%
2068	\$380,058,135	\$246,538,725	64.9%
2069	\$393,358,714	\$255,589,483	65.0%
2070	\$407,127,877	\$264,956,484	65.1%
2071	\$421,381,510	\$274,649,065	65.2%
2072	\$436,136,039	\$284,677,051	65.3%
2073	\$451,408,924	\$295,051,503	65.4%
2074	\$467,217,916	\$305,785,019	65.4%
2075	\$483,581,288	\$316,891,623	65.5%
2076	\$500,518,074	\$328,385,840	65.6%
2077	\$518,047,633	\$340,283,528	65.7%
2078	\$536,190,179	\$352,600,672	65.8%
2079	\$554,966,968	\$365,354,696	65.8%
2080	\$574,399,943	\$378,563,091	65.9%
2081	\$594,511,655	\$392,243,164	66.0%
2082	\$615,325,424	\$406,411,444	66.0%
2083	\$636,865,847	\$421,087,007	66.1%
2084	\$659,158,483	\$436,289,265	66.2%
2085	\$682,229,780	\$452,038,029	66.3%
2086	\$706,107,249	\$468,353,737	66.3%
2087	\$730,819,312	\$485,257,093	66.4%
2088	\$756,395,463	\$502,768,789	66.5%
2089	\$782,866,345	\$520,910,463	66.5%
2090	\$810,263,661	\$539,704,334	66.6%
2091	\$838,620,096	\$559,173,210	66.7%
2092	\$867,969,383	\$579,340,696	66.7%
2093	\$898,346,563	\$600,231,142	66.8%
2094	\$929,787,853	\$621,869,665	66.9%
2095	\$962,330,639	\$644,282,216	67.0%
2096	\$996,013,585	\$667,495,814	67.0%
2097	\$1,030,876,581	\$691,538,715	67.1%
2098	\$1,066,960,868	\$716,440,234	67.1%
2099	\$1,104,309,152	\$742,230,854	67.2%

\*Outlays include retired pay and survivor benefits.

\*\*This projection excludes reservists.

\*\*\*Future mortality improvement is assumed.

\*\*\*\*Beginning with the FY98 valuation book, this projection includes an adjustment for TERA retirees.



APPENDIX M

MARKET VALUE OF ASSETS AND ACCUMULATED BENEFITS

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Statement of Net Assets Available for Benefits.....	M-2
Accumulated Plan Benefits .....	M-5

## STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS

Under generally accepted accounting principles (FASB 35), private sector pension plans are required to include in their accounting statement a table showing the “Net Assets Available for Benefits” and a “Statement of Changes in Net Assets Available for Benefits,” where assets are valued at fair market value. For the military retirement fund, fair market value is based on the bid prices of public issue securities with the same maturity dates and coupon rates as the special issue securities held by the fund. These statements are included in Tables M-1 and M-2.

TABLE M-1

DEPARTMENT OF DEFENSE  
MILITARY RETIREMENT FUND  
STATEMENT OF NET ASSETS AVAILABLE FOR BENEFITS  
(\$ in thousands)

For the Plan Year Ended  
September 30, 2000

Assets

Investments, at fair market value, in U.S. Government securities <sup>1</sup>	\$170,125,011
Accounts receivable	
Accrued interest <sup>2</sup>	4,798,685
Due from military retirees or their survivors	25,221
Cash	20,640
 <u>Total Assets</u>	 \$174,969,557
 Accounts payable	 (2,898,223)
 <u>Total Assets Available for Benefits</u>	 \$172,071,334

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<sup>1</sup> Fair market value of securities has been measured by quoted prices (bid price) in the active U.S. Government securities market. Bid price used represents the over-the-counter quotations as of 4 p.m. eastern time as reported in the *Washington Post* on October 1, 2000.

<sup>2</sup> Includes accrued interest receivable and interest purchased.

TABLE M-2

DEPARTMENT OF DEFENSE  
MILITARY RETIREMENT FUND  
STATEMENT OF CHANGES IN NET ASSETS  
AVAILABLE FOR BENEFITS  
(\$ in thousands)

For the Plan Year Ended  
September 30, 2000

Net assets available for benefits at beginning of plan year	\$167,437,444
Investment income	14,329,434
Net appreciation in fair market value of investments <sup>1</sup>	(3,487,971)
Contributions from services	11,402,375
Appropriation to amortize the initial unfunded liability	15,302,000
Total additions	\$ 37,545,839
Benefits paid to participants <sup>2</sup>	\$ 32,911,949
Net assets available for benefits at end of plan year	\$172,071,334

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<sup>1</sup> Investments bought, sold, and held during the plan year ended September 30, 2000, appreciated (depreciated) in value as follows:

Difference between fair market value and book value	\$(1,905,167)
Amortized discount	188,151
Amortized premium	(1,770,955)
Gain on sale	<u>0</u>
	\$(3,487,971)

<sup>2</sup> The statement has been revised to show benefits paid to participants on an accrual basis:

Benefits paid on cash basis	\$32,807,835
Increase in liability for benefits due at end of year	<u>104,114</u>
Benefits paid on accrual basis	\$32,911,949

## ACCUMULATED PLAN BENEFITS

Another measure of the liabilities of a retirement system is the value of benefits earned to the date of the valuation. This measure is a required disclosure under generally accepted accounting principles for the private sector. As shown in Table M-3, the present value of accumulated plan benefits for the military retirement system as of September 30, 2000 was \$600.6 billion.

Accumulated plan benefits are those future periodic payments that are attributable, under the plan's provisions, to service that military personnel have rendered prior to the valuation date. Accumulated plan benefits include benefits expected to be paid to (a) retired military personnel or their beneficiaries, (b) current beneficiaries, and (c) present active duty personnel and nonretired Reservists or their beneficiaries. Benefits payable under all circumstances (retirement, disability, and survivor) are included to the extent that they are deemed attributable to service rendered prior to the valuation date. No future salary increases are used, but annuities are increased in line with the post-retirement inflation provision.

The actuarial present value of accumulated plan benefits is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as those for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. The actuarial assumptions are based on the presumption that the plan will continue. Table M-3 summarizes these benefits. Were the plan to terminate, different actuarial assumptions and other factors might be applicable.

The net assets available for benefits, which are deducted from the accumulated plan benefits in Table M-3, are based on fair market value, as required under generally accepted accounting principles. This fair market value of the assets will differ from the amortized cost value used in determining the military retirement system's unfunded liability.

TABLE M-3

MILITARY RETIREMENT SYSTEM  
 DEPARTMENT OF DEFENSE  
 STATEMENT OF FINANCIAL POSITION  
 AS OF SEPTEMBER 30, 2000  
 (\$ in billions)

For the Plan Year Ended  
 September 30, 2000

Accumulated Plan Benefits

Actuarial present value of vested benefits

Participants currently receiving payments	\$ 459.8
Other vested participants <sup>1</sup>	<u>76.5</u>
Total vested	\$ 536.3

Actuarial present value of nonvested benefits<sup>2</sup> \$ 64.3

Total actuarial present value of accumulated plan benefits \$ 600.6

Total Assets<sup>3</sup> \$ 175.0

Excess of Accumulated Benefits over Net Assets \$425.6

<sup>1</sup> For the purposes of this table, this line includes active duty and Reserve personnel who have attained twenty years of service.

<sup>2</sup> This line includes benefit accumulations for all active duty and Reserve participants with less than twenty years of service.

<sup>3</sup> Total assets are reported in this table because the liability for benefit payments due is included in the actuarial present value of benefits for participants currently receiving payments.

APPENDIX N

UNFUNDED LIABILITY PAYMENTS

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Method of Amortizing Changes in the Unfunded Liability of the Military Retirement System.....	N-2
Calculation of the October 1, 2001 Unfunded Liability Payment .....	N-8

# METHOD OF AMORTIZING CHANGES IN THE UNFUNDED LIABILITY OF THE MILITARY RETIREMENT SYSTEM

## Introduction

Section 1465 of Title 10 states that the Secretary of Defense shall determine amortization methods and schedules for the annual amortization of changes in the unfunded liability (UFL) of the military retirement system. The section also states that these methods and assumptions must be approved by the DoD Retirement Board of Actuaries. The resulting payments are made by the Department of the Treasury to the military retirement fund and do not affect the DoD budget.

There are three causes of change in the military retirement system's unfunded liability: (1) changes in benefits, (2) annual experience gains or losses resulting from actual experience deviating from expected experience, and (3) changes in actuarial assumptions used in the projected liability calculations. When a change in the unfunded liability does not fit perfectly into one of the three categories, the Board of Actuaries will determine the most appropriate one. The following describes the technical procedure of amortizing these types of changes, as approved by the Board.

## Amortization Procedure

All three types of changes in the unfunded liability are amortized by means of payment schedules so that: (1) the annual amortization payments increase each year by the long-term basic pay scale assumption (currently 3.5 percent), (2) the payment stream completely liquidates the additional liability over 30 years, and (3) the payments are expressed to the nearest million dollars. The amortization payments increase at approximately the same rate as the increase in the total basic payroll for a particular year—an outcome that is consistent with the way the normal cost payments and payments to amortize the system's initial unfunded liability are determined.

Experience gains and losses, which create changes in the unfunded liability, occur every year. Because these changes are usually small in relative terms, the payment streams to amortize them are combined. This produces one single payment stream for the category of experience gains and losses and eliminates the tedious tracking of up to thirty different small amortization schedules. The DoD actuarial staff can identify the separate segments if the need arises.

A similar method of combining amortization schedules is used for changes in the unfunded liability caused by changes in actuarial assumptions. Beginning with the September 30, 1995 valuation, changes to the unfunded liability due to all benefit changes are being combined and amortized in a single stream of payments. Detailed examples of how the amortization payments are calculated follow.



Actuarial gains and losses are changes in the unfunded liability that result from actual experience in a pension plan deviating from what was expected. An actuarial gain is a *decrease* in the unfunded liability and is therefore expressed as a negative number. Correspondingly, a loss represents an *increase* in the unfunded liability and is expressed as a positive number. To avoid confusion, the terms negative and positive “experience changes” will be used in place of “experience gains” and “experience losses.”

The amortization payment for a negative experience change (gain) is also expressed as a negative number. These negative amortization payments reduce any positive amortization payments otherwise payable, including the (positive) payments amortizing the system’s initial unfunded liability.

Amortization payments for changes in the unfunded liability are structured to increase each year with the basic pay scale increase. When the payments are negative, their absolute values are made to increase. Although this means that the payments are actually decreasing mathematically, for simplicity of expression both positive and negative amortization payments are said to “increase” by the basic pay scale increase.

### Benefit and Experience Changes

Below is an example of how three years’ changes in unfunded liability due to actual experience differing from expected experience would be amortized. The amortization schedules would be identical if these changes in the unfunded liability had been due to changes in benefits. This example is hypothetical.

In FY00 there is an assumed experience change of -\$13,800 million (representing a gain of \$13,800 million) determined as of the end of the fiscal year, or September 30, 2000. Since this is the first experience change in the example, it does not need to be combined with a schedule for a prior year. It is amortized with 30 annual payments that increase each year at the rate of the assumed annual increase in basic pay. The payment stream commences on October 1, 2001, and the last payment is made on October 1, 2030. The final payment reduces the amortization base to zero.

The amount of the first payment, -\$697 million, is determined by means of the following steps:

1. Bring forward unamortized balance with interest to September 30, 2001:

$$-\$13,800 \text{ million} \times (1 + i) = -\$14,663 \text{ million}$$

2. Calculate annuity due factor for 30 years at interest rate  $j = [(1 + i) \div (1 + s)] - 1$ :

$$= 21.043417$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$-\$14,663 \text{ million} \div 21.043417 = -\$697 \text{ million}$$

where the annual increase in the basic pay scale  $s = .035$  and the valuation rate of interest  $i = .0625$ . The amortization period is 30 years. In general, the amortization interest rate,  $j$ , is defined by

$$j = [(1 + i) \div (1 + s)] - 1.$$

A hypothetical experience loss in FY01 creates a change in the unfunded liability of +\$8,400 million, calculated as of the end of that fiscal year, or September 30, 2001. The amortization schedules for this change and for the FY00 change are combined as follows. First, the unamortized balance of the FY00 experience change is determined. After the -\$697 million amortization payment is made on October 1, 2001, the remaining unamortized balance is -\$13,966 million. This balance is calculated as  $[-13966 = (-13,800 \times 1.0625) + 697]$ . The +\$8,400 million experience change for FY01 is then added to the -\$13,966 unamortized balance, leaving a combined balance of -\$5,566 million  $(-5,566 = -13,966 + 8,400)$ .

This combined balance will be amortized over a “combined amortization period.” The combined amortization period is equal to the weighted average of the remaining 29-year amortization period for the FY00 experience change and a new 30-year period for the FY01 experience change. The weights used in the calculation are the absolute values of the -\$13,966 million unamortized balance and the +\$8,400 million experience change, respectively.

Thus the combined amortization period is equal to:

$$\frac{(13,966 \times 29) + (8,400 \times 30)}{13,966 + 8,400} = 29.38 \text{ years}$$

An initial combined amortization payment of -\$285 million is determined by the following procedure:

1. Bring forward unamortized balance with interest to September 30, 2002:

$$-\$5,566 \text{ million} \times (1 + i) = -\$5,914 \text{ million}$$

2. Calculate annuity due factor for 29.38 years at interest rate  $j = [(1 + i) \div (1 + s)] - 1$ :

$$= 20.752971$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$-\$5,914 \text{ million} \div 20.752971 = -\$285 \text{ million}$$

The payments in this amortization stream will increase at 3.5 percent per year. The payment at the end of the 29th year is -\$747 million. A final, partial payment will be made at the end of the 30th year and is equal to the unamortized balance, or -\$293 million.

Because experience changes normally occur every year, the only payment that would actually be made under this particular combined schedule is the -\$285 million on October 1, 2002. A new combined amortization schedule covering FY00, FY01, and the new unfunded liability caused by experience changes in FY02 is determined as follows.

First, the combined FY00 and FY01 amortization base of -\$5,566 million is increased by one year's interest and credited with the payment of -\$285 million. The remaining unamortized balance as of October 1, 2001 is -\$5,629 million [ $-5,629 = (-5,566 \times 1.0625) + 285$ ]. This amount (-\$5,629) is then combined with an assumed FY02 experience change of +\$10,300 million, resulting in a new combined unamortized balance of \$4,671 million ( $4,671 = -5,629 + 10,300$ ). This combined amortization base of \$4,671 million is then amortized over a new combined amortization period of 29.43 years, which is equal to the weighted average of the 28.38 years remaining for the old schedule and the 30-year period for the FY02 change. The new combined amortization period is calculated as follows:

$$\frac{(5,629 \times 28.38) + (10,300 \times 30)}{5,629 + 10,300} = 29.43 \text{ years}$$

The October 1, 2003 payment to amortize the new combined base of \$4,671 million is \$239 million and is determined by means of the following procedure:

1. Bring forward unamortized balance with interest to September 30, 2003:

$$\$4,671 \text{ million} \times (1 + i) = \$4,963 \text{ million}$$

2. Calculate annuity due factor for 29.43 years at interest rate  $j = [(1 + i) \div (1 + s)] - 1$ :

$$= 20.776596$$

3. Divide unamortized balance by annuity factor to get annual payment:

$$\$4,963 \text{ million} \div 20.776596 = \$239 \text{ million}$$

This is the payment to amortize the combined experience changes for all three years.

Table N-1 shows the schedule of amortization payments for the experience changes in FY00; FY00 and FY01 combined; and FY00, FY01, and FY02 combined.

TABLE N-1

Projected Amortization Payments for Experience Changes  
(Amounts in Millions)

<u>Date</u>	<u>Payment on the FY00 Experience Change</u>	<u>Payment on the Combined FY00 and FY01 Experience Change</u>	<u>Payment on the Combined FY00, FY01 and FY02 Experience Change</u>
10/1/01	\$ -697		
10/1/02	-721	\$ -285	
10/1/03	-746	-295	\$ 239
10/1/04	-773	-305	247
10/1/05	-800	-316	256
10/1/06	-828	-327	265

Changes in Actuarial Assumptions

The third type of change in the unfunded liability is due to changes in actuarial assumptions. These assumption changes are customarily made every three to five years, although they could be more or less frequent. They are amortized by the same method used for experience gains and losses and for benefit changes, i.e., by means of a combined schedule with initial 30-year payments that increase at the rate of the assumed basic pay scale increases.

If changes in economic assumptions include a change in either the valuation interest rate or the assumed basic pay scale increase, the amortization payments that have already been scheduled for all three categories of change in the unfunded liability will be modified. Specifically, new series of amortization payments will be determined to amortize the current amortization bases over their remaining amortization periods, with payments that increase at the new basic pay scale increase and are computed using the new valuation interest rate. The following example illustrates how this is done.

Suppose that on October 1 of a particular fiscal year, an amortization base is \$27,405 million, calculated immediately after the scheduled amortization payment is made. Say the remaining amortization period is 26 years. Also suppose that the valuation interest rate is changed to 6.0 percent and that the basic pay scale increase is changed to 3.0 percent.

The initial, revised payment, to be made on the following October 1, is determined by the following procedure:

1. Bring forward unamortized balance with interest to September 30 of next year:

$$\$27,405 \text{ million} \times (1 + \mathbf{i}) = \$29,049 \text{ million}$$

where in this case,  $\mathbf{i} = .06$

2. Calculate annuity due factor for 26 years at interest rate  $\mathbf{j} = [(1 + \mathbf{i}) \div (1 + \mathbf{s})] - 1$ :

$$= 18.583906$$

where  $\mathbf{i} = .06$  and  $\mathbf{s} = .03$

3. Divide unamortized balance by annuity factor to get annual payment:

$$\$29,049 \text{ million} \div 18.583906 = \$1,563 \text{ million}$$

The second and succeeding payments will increase at the rate of 3.0 percent per year, which is the new basic pay scale increase. The \$27,405 million amortization base will be credited with 6.0 percent interest. This new series of amortization payments will reduce the \$27,405 million amortization base to zero at the end of the 26th year.

CALCULATION OF THE OCTOBER 1, 2001  
UNFUNDED LIABILITY PAYMENT

The following pages display the calculation of the October 1, 2001 unfunded liability payment based on the September 30, 2000, valuation results and on amortization methods and assumptions approved by the DoD Retirement Board of Actuaries. In order to avoid a projected shortfall in the Military Retirement Fund, the Board determined that, beginning with the FY98 payment, the total amortization period of the initial unfunded liability would be decreased from 60 to 50 years.

TABLE N-2  
TOTAL UNFUNDED LIABILITY PAYMENT  
OCTOBER 1, 2001

(\$ in billions)

Payment for:

a.	Initial unfunded liability	\$43.571
b.	Changes in actuarial assumptions	\$(9.862)
c.	Changes in benefits	\$0.472
d.	Experience gains and losses	\$(17.134)
Total payment		\$17.047

TABLE N-3

CALCULATION OF OCTOBER 1, 2001  
PAYMENT ON INITIAL UNFUNDED LIABILITY (UFL)

(\$ in billions)

1.	Unamortized balance of initial UFL (10/1/99 balance $\times$ 1.0625)	9/30/00	\$959.626
2.	Payment on UFL	10/1/00	\$42.098
3.	Unamortized balance of initial UFL (1. - 2.)	10/1/00	\$917.528
4.	Balance on 9/30/01 (3. $\times$ 1.0625)	9/30/01	\$974.873
5.	Number of Annual Payments Remaining	9/30/01	33
6.	Value of an annuity due for remaining amortization period at interest rate equal to $(1.0625 \div 1.035) - 1$		22.374407
7.	Payment on initial UFL due 10/1/01 (4. $\div$ 6.)		\$43.571



TABLE N-4

CALCULATION OF OCTOBER 1, 2001  
PAYMENT ON UNFUNDED LIABILITY (UFL)  
RESULTING FROM ASSUMPTION CHANGES

(\$ in billions)

1. Unamortized balance of UFL due to assumption changes (10/1/99 balance $\times$ 1.0625)	9/30/00	\$(170.665)
2. Payment on UFL	10/1/00	\$(9.984)
3. Unamortized UFL balance after payment (1. - 2.)	10/1/00	\$(160.681)
4. Additional (new) UFL	9/30/00	\$5.724
5. Unamortized UFL balance due to assumption changes (3. + 4.)	10/1/00	\$(154.958)
6. Balance on 9/30/01 (5. $\times$ 1.0625)	9/30/01	\$(164.643)
7. Number of years in prior amortization schedule		22.28
8. Remaining number of years in prior amortization schedule (7. - 1)		21.28
9. Number of years in new amortization schedule (absolute values used for all numbers) [(3. $\times$ 8.) + (4. $\times$ 30)] $\div$ (3. + 4.)		21.58
10. Value of an annuity due for remaining amortization period at interest rate equal to (1.0625 $\div$ 1.035) - 1		16.695308
11. Payment on UFL due to assumption changes (6. $\div$ 10.)	10/1/01	\$(9.862)

TABLE N-5

CALCULATION OF OCTOBER 1, 2001  
PAYMENT ON UNFUNDED LIABILITY (UFL)  
RESULTING FROM BENEFIT CHANGES

(\$ in billions)

1. Unamortized UFL balance due to benefit changes (10/1/99 balance x 1.0625)	9/30/00	\$6.939
2. Payment on UFL	10/1/00	\$0.335
3. Unamortized UFL balance after payment (1. - 2.)	10/1/00	\$6.604
4. Additional (new) UFL due to benefit changes	9/30/00	\$2.475
5. Unamortized UFL balance due to benefit changes (3. + 4.)	9/30/00	\$9.079
6. Balance on 9/30/01 (5. × 1.0625)	9/30/01	\$9.647
7. Total number of years of prior amortization schedule		29.24
8. Remaining number of years of prior amortization schedule (7. - 1)		28.24
9. Total number of years of new amortization schedule (absolute values used for all numbers) [(3. × 8.) + (4. × 30)] ÷ (3. + 4.)		28.72
10. Value of an annuity due for remaining amortization period at interest rate equal to (1.0625 ÷ 1.035) - 1		20.443524
11. Payment on UFL due to benefit changes (6. ÷ 10.)	10/1/01	\$0.472

TABLE N-6

CALCULATION OF OCTOBER 1, 2001  
PAYMENT ON UNFUNDED LIABILITY (UFL)  
RESULTING FROM EXPERIENCE GAINS AND LOSSES

(\$ in billions)

1. Unamortized UFL balance due to experience gains and losses (10/1/99 balance $\times$ 1.0625)	9/30/00	\$(279.658)
2. Payment on UFL	10/1/00	\$(16.360)
3. Unamortized UFL balance after payment (1. - 2.)	10/1/00	\$(263.298)
4. Additional (new) UFL	9/30/00	\$(4.510)
5. Unamortized UFL balance due to experience gains and losses (3. + 4.)	10/1/00	\$(267.808)
6. Balance on 9/30/01 (5. $\times$ 1.0625)	9/30/01	\$(284.546)
7. Number of years in prior amortization schedule		22.28
8. Remaining number of years in prior amortization schedule (7. - 1)		21.28
9. Number of years in new amortization schedule (absolute values used for all numbers) [(3. $\times$ 8.) + (4. $\times$ 30)] $\div$ (3. + 4.)		21.42
10. Value of an annuity due for remaining amortization period at interest rate equal to $(1.0625 \div 1.035) - 1$		16.607045
11. Payment on UFL due to experience gains and losses (6. $\div$ 10.)	10/1/01	\$(17.134)

