



**Thrift Savings Plan**

# **TSP Annuities**

**February 2001**

**Federal Retirement  
Thrift Investment Board**

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# Thrift Savings Plan Annuities

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## Introduction

A Thrift Savings Plan (TSP) annuity provides you with a monthly income for life. It is one of several options that you have for withdrawing your TSP account.

This booklet describes the types of TSP annuities that are available and provides information to help you choose an annuity. It contains a worksheet and tables for estimating the amount of monthly annuity payments based on your annuity choice, your age, and your estimated account balance. The information in the booklet will also help you if you are not yet ready to request an annuity but want to know more about TSP annuities in order to plan for your retirement.

This booklet supplements the information in the booklet *Withdrawing Your TSP Account After Leaving Federal Service*, which is contained in the Withdrawal Package that your agency should give you when you leave Government service. (If your agency has not given you the Withdrawal Package, please ask for it.) You can also obtain a copy of the withdrawal booklet by downloading it from the TSP Web site at [www.tsp.gov](http://www.tsp.gov). The withdrawal booklet includes important information about the withdrawal options available to you, spouses' rights, and survivor benefits. You should read it **before** you read this booklet.

If you need more information about withdrawals:

- Employed participants** — Contact your personnel office.
- Separated and retired participants** — Contact:

Thrift Savings Plan Service Office  
National Finance Center  
P.O. Box 61500  
New Orleans, LA 70161-1500  
Telephone: (504) 255-6000  
TDD: (504) 255-5113

Please remember that neither your agency nor the TSP Service Office can give you financial or tax advice. If you need advice about the type of annuity or other withdrawal option that is best for you, you should contact a financial counselor or tax advisor.

**Note:** A TSP annuity is different from the basic annuity that you will receive as a result of your retirement coverage under FERS or CSRS.<sup>1</sup> If you have questions about your eligibility for the basic FERS or CSRS annuity and the amount of income it will provide, see your agency personnel office.

## TSP Annuities

If you choose a TSP annuity, your TSP account balance will be used to purchase an annuity for you. **Your TSP account balance must be at least \$3,500 at the time your annuity is purchased.**

A TSP annuity provides income in the form of monthly payments for as long as you — and your joint annuitant, if you elect an annuity with survivor benefits — are alive. If you name a joint annuitant, monthly payments are made to you while you and your joint annuitant are both alive; when either of you dies, monthly payments are made to the survivor for the rest of his or her life. The factors that affect the amount of the monthly payments include:

- The annuity option you choose
- Your age when your annuity is purchased (and the age of your spouse or other joint annuitant)
- The balance in your TSP account used to purchase your annuity
- The “interest rate index” when your annuity is purchased

Be sure you understand the annuity options before you make your choice, because **after your annuity is purchased, you cannot change your election or terminate your annuity.**

## Administration of Your Annuity

The TSP uses your account balance to purchase an annuity for you from the TSP annuity provider. The current TSP annuity provider is Metro-

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<sup>1</sup> FERS refers to the Federal Employees' Retirement System, the Foreign Service Pension System, and other equivalent Government retirement plans.

CSRS refers to the Civil Service Retirement System, including CSRS Offset, the Foreign Service Retirement and Disability System, and other equivalent Government retirement plans.

politan Life Insurance Company (MetLife), a major national insurance company competitively chosen by the Federal Retirement Thrift Investment Board.

When your annuity is purchased, the TSP record keeper will notify you of the purchase. MetLife will send you an annuity certificate, set up your account record, and begin issuing monthly payments. You will receive your first monthly payment approximately 30 days after your annuity is purchased.

When your annuity is purchased, your TSP account will be closed, and you will no longer be a participant in the TSP. All of your communications will be with MetLife, from whom you will receive information and instructions about how to keep your account record up to date. MetLife will also send you income tax withholding information and will report your payments to the Internal Revenue Service (IRS).

## Types of TSP Annuities

Five types of TSP annuities are provided, as specified by the Federal Employees' Retirement System Act (FERSA), which is the authorizing legislation for the TSP. In addition to the five types of annuities, there are other features that you must consider.

The five types of TSP annuities are:

### Single life annuity:

1. with level payments *or*
2. with increasing payments

### Joint life annuity with your spouse:

3. with level payments *or*
4. with increasing payments

### Joint life annuity with someone other than your spouse:

5. with level payments

These annuities are described below and are summarized in Section 1 of the table on page 4.

Throughout the remainder of the booklet, the term "joint life annuity" is used to refer to both a joint life annuity with your spouse and a joint life annuity with someone other than your spouse.

## Single Life and Joint Life Annuities

**Single Life Annuity** — An annuity that provides monthly payments only to you as long as you live.

**Joint Life Annuity** — An annuity that provides monthly payments to you while you and the person you name as your joint annuitant are alive. When either of you dies, monthly payments are made to the survivor for his or her lifetime. The amount of the payment that you receive while you and your joint annuitant are alive and the amount of the payment to the survivor depend on whether you choose a 100 percent or a 50 percent survivor annuity.

**100 percent survivor annuity.** The amount of the monthly payment to the survivor is the same as the annuity payment made while both you and your joint annuitant are alive. However, the amount of the monthly payment that you receive while you are both alive is generally less than it would be if you select the 50 percent survivor annuity.

**50 percent survivor annuity.** The amount of the monthly payment to the survivor — whether the survivor is you or your joint annuitant — is half (that is, 50 percent) of the annuity payment made while both you and your joint annuitant are alive.

## Level and Increasing Payment Annuities

Once you have chosen either a single life or a joint life annuity, you must also decide whether you want to receive level or increasing payments.

**Level Payments.** The amount of the monthly payment remains the same from year to year. Thus, with a single life annuity, you receive the same monthly payment for as long as you live. With a joint life annuity, you receive the same monthly payment for as long as you and your joint annuitant are alive. The monthly payment to the survivor (100 percent or 50 percent of the initial payment) remains the same for as long as the survivor is alive.

**Increasing Payments.** The amount of the monthly payment can change each year on the anniversary date of the first annuity payment. The amount of the change is based on the change in the consumer price index. When annuity payments start, they are smaller than they would be if you had

selected level payments, but usually there is an annual increase in monthly payments. Increases cannot exceed 3 percent per year, but monthly payments cannot decrease, even if the consumer price index decreases. Increasing payments can be combined with either the single life or the joint life annuity with your spouse. With a joint life annuity, the annual increase applies whether you or your spouse is the survivor. Increasing payments **cannot** be combined with a joint life annuity when the joint annuitant is someone other than your spouse.

## Additional Annuity Features

There are two additional annuity features: the cash refund feature and the 10-year certain feature. If you choose one of these features, certain minimum amounts will be paid to the beneficiary that you name if you (and your joint annuitant, if applicable) die before the minimum amounts have been paid out. When you choose one of these features, your monthly payments will be less than they would have been if you had not chosen one of them.

**Cash Refund.** If you (and your joint annuitant, if applicable) die before an amount equal to the balance used to purchase your annuity has been paid out, the difference between the balance used to purchase your annuity and the sum of the monthly payments already made will be paid to your beneficiary in a lump sum. This feature can be combined with either a single life or a joint life annuity, and it can be combined with either level or increasing payments.

**Ten-year Certain.** If you die before receiving annuity payments for a 10-year period, payments will continue to your beneficiary for the rest of the 10-year period. If you live beyond the 10-year period, you will continue to receive payments, but with no further provision for payments to a beneficiary upon your death. This feature can be combined with a single life annuity with either level or increasing payments. It **cannot** be combined with a joint life annuity.

Section 1 of the table on the following page summarizes the TSP annuity options described above.

## Spouses' Rights

The law gives certain rights to your spouse (including a separated spouse). These rights must be taken into consideration before a TSP annuity can be purchased for you. Therefore, you must provide certain spousal information so that the TSP can implement the spouses' rights provisions of the law. (See page 6, "Requesting an Annuity.")

**FERS participants.** If you are a married FERS participant, your spouse has the right to a joint and survivor annuity. This requirement applies even if you are separated from your spouse. Therefore, if you elect any withdrawal option (including annuity options) other than the joint life annuity with your spouse with a 50 percent survivor benefit, level payments, and no cash refund feature, your spouse must waive this annuity option.

If you are not able to locate your spouse, or if exceptional circumstances make it inappropriate for your spouse to sign a waiver, the TSP may grant an exception to the required waiver. To request an exception, you must complete Form TSP-16, Exception to Spousal Requirements, and provide supporting documentation as described on that form.

**CSRS participants.** If you are a married CSRS participant (even if you are separated from your spouse), the TSP must send a notice to your spouse before your annuity is purchased, stating which annuity option you have chosen.

If you are not able to provide your spouse's address, the TSP may grant an exception to the required notice. To request such an exception, you must complete Form TSP-16, Exception to Spousal Requirements, and provide supporting documentation as described on that form.

**Both FERS and CSRS participants.** If the TSP has received a valid court order that awards a portion of your TSP account to a former spouse or separated spouse or a valid order that requires payment for enforcement of child support or alimony obligations, the TSP will comply with that order before your annuity is purchased. The TSP will notify you of any court orders received that affect your account.

# Summary of Annuity Options and Examples of Estimated Payments

## Section 1: Summary of Annuity Options<sup>1</sup>

Single Life		Joint Life with Spouse		Joint Life with Other Survivor
1. Level Payments	2. Increasing Payments	3. Level Payments	4. Increasing Payments	5. Level Payments
a) with no additional features <b>or</b> b) with cash refund feature <b>or</b> c) with 10-year certain feature	a) with no additional features <b>or</b> b) with cash refund feature <b>or</b> c) with 10-year certain feature	a) 100% survivor annuity <b>or</b> b) 50% survivor annuity <b>or</b> c) 100% survivor annuity with cash refund <b>or</b> d) 50% survivor annuity with cash refund	a) 100% survivor annuity <b>or</b> b) 50% survivor annuity <b>or</b> c) 100% survivor annuity with cash refund <b>or</b> d) 50% survivor annuity with cash refund	a) 100% survivor annuity* <b>or</b> b) 50% survivor annuity <b>or</b> c) 100% survivor annuity with cash refund* <b>or</b> d) 50% survivor annuity with cash refund
* Available if joint annuitant is not more than 10 years younger than the participant.				

<sup>1</sup> A married FERS participant must obtain a spouse waiver of the survivor annuity benefit if an option is chosen other than 3b. See the section of this booklet entitled "Spouses' Rights" on page 3.

## Section 2: Examples of Estimated Monthly Payments Under the Annuity Options Shown Above

(Based on \$50,000 account balance, 7% interest rate index, and assuming a 62-year-old participant and a 59-year-old spouse)

Single Life		Joint Life with Spouse		Joint Life with Other Survivor
1. Level Payments	2. Increasing Payments	3. Level Payments	4. Increasing Payments	5. Level Payments
	<i>Initially</i> <i>In 10th year</i> <sup>2</sup>		<i>Initially</i> <i>In 10th Year</i> <sup>2</sup>	
a) \$436.50	a) \$332.50    \$433.84	a) \$378.50	a) \$275.50    \$359.46	a) \$378.50
b) \$410.50	b) \$306.00    \$399.26	b) \$426.00	b) \$321.00    \$418.83	b) \$426.00
c) \$424.00	c) \$324.00    \$422.74	c) \$374.50	c) \$272.50    \$355.55	c) \$374.50
		d) \$413.00	d) \$308.50    \$402.52	d) \$413.00

<sup>2</sup> Payments increase each year on the anniversary date of the first annuity payment. The annual increase is based on the change in the consumer price index, but cannot be negative or exceed 3%. This example illustrates the monthly annuity payment in the 10th year if the increase each year for nine years is 3%. However, the annual increase could be less than this (or none at all).

## Choosing a Joint Annuitant Who Is Not Your Spouse

You can choose an annuity that provides for a joint annuitant other than your spouse. In this case, the joint annuitant must be either a former spouse or someone with an **insurable interest** in you. This means that the person is financially dependent on you and could reasonably expect to derive financial benefit from your continued life. Blood relatives or adopted relatives (but not relatives by marriage) who are closer than first cousins are presumed to have an insurable interest in you.

If you want to provide for someone other than a person listed above, you must submit with your annuity request an affidavit from at least one person (other than the joint annuitant) who has personal knowledge that the joint annuitant you have chosen has an insurable interest in you. The certifier must know the relationship between you and the joint annuitant and must state why he or she believes that the named joint annuitant might reasonably expect to benefit financially from your continued life.

If you name a joint annuitant other than your spouse (or a former spouse, if required by a retirement benefits court order) who is more than 10 years younger than you, you must choose a joint life annuity with the 50 percent survivor benefit.

## Choosing Among the Annuity Options

The value of the expected lifetime payments under all of the annuity options is comparable, but the amounts of the monthly payments that you receive — and the provision for continuing payments to a survivor or beneficiary — are different. For example, a monthly payment under a single life annuity will generally be more than the monthly payment under a joint life annuity. However, the number of payments under a single life annuity will generally be fewer than under a joint life annuity. This is because, under the joint life annuity, payments continue after the death of one of the joint annuitants until the survivor dies.

Examples of monthly payments under the various annuity options are shown in Section 2 of the table on page 4. This table includes all types of TSP annuities for a participant who expects to re-

tire at age 62 with an account balance of \$50,000. In the examples for the joint life options, the spouse or other annuitant is assumed to be three years younger than the participant. The examples assume that the annuity is purchased when the annuity “interest rate index” is 7 percent. (See the following section for a description of the interest rate index.)

**After your annuity is purchased, you cannot change either the annuity option or the joint annuitant that you have named.** Therefore, be sure you understand the differences among the annuity options before you make your choice.

## Estimating Your Monthly Annuity Payments

You can use the worksheet and tables in the Appendix to this booklet to estimate the amount of monthly annuity payments for the different annuity options. An annuity calculator that will estimate annuity benefit amounts using the current interest rate index is also available on the TSP Web site, [www.tsp.gov](http://www.tsp.gov).

To make an estimate, you must first estimate your TSP account balance at the expected purchase date. You can obtain your current account balance by accessing your account on the TSP Web site at [www.tsp.gov](http://www.tsp.gov) or by calling the ThriftLine at (504) 255-8777 from a touch-tone telephone (not a toll-free number). You will need your Social Security number and your Personal Identification Number (PIN). You can also estimate your account balance using your most recent participant statement and adding an estimate of any contributions and earnings since the date of that statement.

Interest rate levels at the time the annuity is purchased will affect the amount of the monthly payments. The TSP uses an “interest rate index” to reflect the general level of interest rates at the time the annuity is purchased. The interest rate index is a moving average of the 10-year U.S. Treasury rate. You can obtain the current interest rate index from the Current Information section of the TSP Web site or by calling the telephone number shown on the worksheet. Because interest rates change over time, you may want to make monthly annuity payment estimates assuming several different interest rate levels. **Once the annuity has been purchased, changes in the interest rate index will not affect the amount of your annuity payments.**

The **exact** amount of your monthly annuity payment cannot be determined until the date of purchase, after the prior month's earnings have been credited to your account. At that time, your account balance will be used to purchase your annuity.<sup>2</sup>

## How Annuity Payments Are Taxed

The money in your TSP account was contributed on a tax-deferred basis, and all earnings on your account were tax deferred. Therefore, your TSP annuity payments will be taxed as ordinary income in the years that you receive them. However, these annuity payments are **not** subject to the IRS early withdrawal penalty, even if you are under age 55 when they begin.

When you separate from service, your agency should provide you with a Withdrawal Package that contains the current tax notice, "Important Tax Information About Payments From Your TSP Account."

## Requesting an Annuity

To request an annuity, submit Form TSP-70, Withdrawal Request, to the TSP Service Office, indicating that you want a TSP annuity.

Form TSP-70 is contained in the Withdrawal Package. This form is also available from the TSP Web site or, after you leave Federal service, from the TSP Service Office.

When you submit Form TSP-70 indicating that you want an annuity, the TSP Service Office will send you the Annuity Request Package. The package consists of:

- Form TSP-11-A, Annuity Request
- Form TSP-11-B, Beneficiary Designation for a TSP Annuity
- Form TSP-11-C, Spouse Information and Waiver

You **must** complete Form TSP-11-A. On this form you indicate the particular annuity option that you want. You must provide proof of your age and the age of your joint annuitant, if applicable.

If you cannot provide a copy of your birth certificate, one of the following items may be used if your date of birth is shown: baptismal certificate, marriage certificate, or family bible record. If none of the above are available, submit **two** of the following types of evidence: school or college record, church record, birth certificate of children (if parent's age is shown), family record of genealogies, military discharge papers, passport, driver's license, life insurance papers, hospital records, census records, or voting records.

If you have chosen a joint annuitant other than your spouse (see page 5), the affidavit certifying insurable interest (if required) should also be submitted with your Form TSP-11-A.

Complete Form TSP-11-B **only if** you are requesting an annuity with either the cash refund or 10-year certain feature.

Complete Form TSP-11-C **only if**:

- You are a married FERS participant and you are requesting an annuity other than a joint life annuity with your spouse, with a 50 percent survivor benefit, level payments, and no cash refund feature.
- You are a married CSRS participant, regardless of the annuity option you have chosen.

## Information Your Agency Must Provide

When you leave Government service, your agency must inform the TSP that you have separated and the date of your separation.

You should make sure that your agency submits this information directly to the TSP record keeper. Your annuity request cannot be processed until the TSP Service Office has received complete separation information.

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<sup>2</sup> If you are 70½ or older and separated from Federal service, you are required by the IRS to receive an amount from your account each year that meets certain minimum distribution requirements. Because of this rule, a portion of your account balance may be paid to you directly as a minimum distribution before your annuity is purchased.

## Changing Your Annuity Request

You can change your request **only if** the forms required for the change are received in time to be processed **before** your annuity is purchased:

- ❑ To choose a different TSP annuity, submit another Form TSP-11-A (and Forms TSP-11-B and TSP-11-C, as appropriate).
- ❑ To change to another withdrawal method, submit another Form TSP-70 (and Form TSP-70-T, Transfer Information, if appropriate).

If you choose another withdrawal method, you must comply with the spouses' rights rules that apply to your marital status at the time you make the change.

**Note:** You cannot change either the annuity option or the joint annuitant **after** your annuity has been purchased, nor can you terminate the annuity.

## When Your Annuity Payments Will Start

The TSP purchases annuities once a month. All materials required for the purchase of an annuity must be received by the TSP Service Office in time to be processed by the last business day of the month in order for the annuity to be purchased the following month. Annuity payments begin approximately one month after the annuity is purchased.

## What Happens to Your Annuity When You Die

If you die *after your annuity has been purchased*, benefits will be provided according to your annuity selection. Thus, if you chose a joint life annuity and your joint annuitant is still living when you die, payments will be made to the joint annuitant until he or she dies. If you chose an annuity with a cash refund or 10-year certain feature, payment may be made to your beneficiaries as described on page 3. For all other options, there are no further payments after your death.

If you die *before the TSP Service Office receives your completed annuity request*, your TSP account balance will be distributed to the persons you named on your most recent Form TSP-3, Designation of Beneficiary. If there is no Form TSP-3 on file with the TSP Service Office, benefits will be paid according to the order of precedence established by law. The order of precedence is described in the booklet *Withdrawing Your TSP Account After Leaving Federal Service*.

If you die *after the TSP Service Office receives your completed annuity request but before your annuity has been purchased*, your entire account balance will be distributed as follows: If you chose an annuity that provides for a joint annuitant and/or beneficiaries, your entire account balance will be distributed to your joint annuitant or, if there is no joint annuitant, to the persons you named in your annuity request as your beneficiaries. If you chose a single life annuity without beneficiary provisions, your account balance will be distributed to the persons you named on your most recent Form TSP-3. If there is no Form TSP-3 on file with the TSP Service Office, your account will be distributed according to the legal order of precedence.

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# Appendix

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## Estimating a Monthly Annuity Payment

You can use the Annuity Calculator on the TSP Web site ([www.tsp.gov](http://www.tsp.gov)) or the following worksheet to estimate the amount of the monthly annuity payment that you will receive when your annuity is purchased. The particular annuity option you want to estimate will determine which tables you use.

**Annuity choice.** Before you begin the worksheet, be sure you can answer the following questions:

- Are you estimating a single or a joint life annuity?
- If you are estimating a joint life annuity, is it a 100% or a 50% survivor annuity?
- Are you estimating a level payment or an increasing payment annuity?
- Are you adding either the cash refund or the 10-year certain feature?

**Other basic information.** In addition to your annuity choice, you will need to know:

- Your approximate TSP account balance at the expected annuity purchase date.
- Your age (and the age of your spouse or other eligible person, if you are estimating a joint life annuity) at the expected annuity purchase date.

**Estimating an immediate annuity.** Use your current age and account balance. Check the TSP Web site or call the ThriftLine at (504) 255-8777 to find out your account balance; or estimate your balance using your most recent participant statement (and adding contributions and estimated earnings since the date of that statement).

**Estimating an annuity for a later purchase date.** Although a Form TSP-70 that requests that an annuity be purchased at a future date cannot be accepted, you can estimate what your payment would be if your annuity is purchased at a later date. To do so, choose an expected annuity purchase date (e.g., five years from now) and determine how old you (and your joint annuitant, if applicable) would be at that date.

Also estimate the amount of money that will be in your TSP account at that time by using the Projecting Account Balance calculator on the TSP Web site, or Tables A and B from “Projecting Your Account Balance” in the *Summary of the Thrift Savings Plan for Federal Employees*.

**Completing the worksheet.** The worksheet has three sections:

**Part A — Participant information**

**Part B — Preliminary estimate of monthly annuity payment.** This estimate is not adjusted for current interest rate levels. It is based on factors using a 7% interest rate index. You can stop at the end of Part B if the preliminary estimate meets your need to compare several types of annuities or to obtain a rough idea of what your annuity income will be.

**Part C — Adjusted estimate for current interest rate levels.** The interest rate index used in TSP annuity calculations is based on a 3-month moving average of the 10-year U.S. Treasury rates. If the current interest rate index is 7%, there is no adjustment to your preliminary monthly payment estimate. If the current interest rate index is higher than 7%, the adjustment will increase your estimate. If the current interest rate index is lower than 7%, the adjustment will decrease your estimate.

To obtain the current interest rate index, check the Current Information section of the TSP Web site or call the Thrift Savings Plan Annuity Interest Rate Index recording at 1-800-447-8777. (Once your annuity is purchased, the monthly payment you receive will not change when the interest rate index changes.)

**Using the tables.** To estimate one of the single life annuity options, use Tables 1 and 3. To estimate one of the joint life annuity options, use Tables 2 and 4. These tables are designed for estimating either the joint life with spouse annuity or the joint life with other survivor annuity.

All of the tables are based on your age at the time your annuity is purchased. Joint life annuity tables also take into account the age of the joint annuitant. (Neither the sex of the annuitants nor status as head of household affects the amount of the monthly annuity payment.)

The tables include an age range that covers most Federal employees (and their joint annuitants) who are at or near retirement age. If your age or your joint annuitant's age is not covered by these tables, the TSP Service Office or your agency personnel office can give you information from the more detailed *Thrift Savings Plan Comprehensive Tables of Annuity Rates*, February 2001 edition.

# Worksheet for Estimating a Monthly Annuity Payment

This worksheet can be used to estimate the monthly annuity payment that you will receive when your annuity is purchased. Enter information in Part A that is appropriate for your expected annuity purchase date.

	Example	Your Estimate
<b>A. Participant information</b>		
	<i>Joint with spouse – 50% level payments, no cash refund</i>	
(1) Annuity option:	_____	_____
(2) Your age:	<u>62</u>	_____
(3) Your joint annuitant's age (if a joint life annuity):	<u>59</u>	_____
(4) Age difference (if a joint life annuity) — Joint annuitant is:	<u>3 years</u> <u>younger</u> older	_____ years younger/older
(5) Estimated TSP account balance at time of purchase:	\$ <u>50,016.90</u>	\$ _____
<b>B. Preliminary estimate of monthly annuity payment</b>		
(6) Estimated amount available for annuity in thousands of dollars: line (5) ÷ \$1,000	\$ <u>50.01690</u>	\$ _____
(7) Monthly annuity factor per \$1,000 account balance: For single life annuity, use Table 1 (page 10). For joint life annuity, use Table 2 (pages 10-18).	\$ <u>8.52</u>	\$ _____
(8) Preliminary estimate of monthly annuity payment: line (6) × line (7)	\$ <u><u>426.14</u></u>	\$ _____
<b>C. Adjusted estimate for current interest rate levels</b>		
(9) Current interest rate index: (Check the Current Information section of the TSP Web site or call 1-800-447-8777.)	<u>6.375</u>	_____
(10) Interest rate index used in monthly annuity factor tables:	<u>7.000</u>	<u>7.000</u>
(11) Index increase (decrease): line (9) – line (10)	<u>(0.625)</u>	_____
(12) Interest adjustment factor: For single life annuity, use Table 3 (page 19). For joint life annuity, use Table 4 (page 20).	<u>0.086</u>	_____
(13) Adjustment multiplier: line (11) × line (12)	<u>(0.054)</u>	_____
(14) Increase (decrease) to estimate: line (8) × line (13)	\$ <u>(23.01)</u>	\$ _____
(15) Estimated monthly annuity payment adjusted for current interest rate: line (8) + line (14)	\$ <u><u>403.13</u></u>	\$ _____

## TABLE 1 Single Life Annuities

### Monthly Annuity Factors per \$1,000 Account Balance

**Instructions:** Find your age (at the expected annuity purchase date) in the left-hand column headed “Annuitant’s Age.” Find the column that describes the annuity option you are estimating.

Then find the number where the row for your age intersects the column for your annuity option. Enter that number on the worksheet on line (7).

Annuitant’s Age	Level Payment			Increasing Payment		
	No Added Features	Cash Refund	10-Year Certain	No Added Features	Cash Refund	10-Year Certain
50	\$7.50	\$7.35	\$7.43	\$5.31	\$5.09	\$5.26
51	7.57	7.42	7.49	5.39	5.17	5.34
52	7.64	7.49	7.56	5.47	5.25	5.42
53	7.72	7.57	7.63	5.56	5.34	5.50
54	7.80	7.65	7.70	5.65	5.43	5.59
55	7.89	7.58	7.78	5.75	5.41	5.68
56	7.99	7.67	7.86	5.86	5.50	5.77
57	8.09	7.77	7.95	5.97	5.61	5.88
58	8.20	7.87	8.05	6.09	5.72	5.98
59	8.32	7.99	8.15	6.21	5.84	6.10
60	8.45	7.94	8.25	6.35	5.84	6.22
61	8.58	8.07	8.36	6.49	5.98	6.34
62	8.73	8.21	8.48	6.65	6.12	6.48
63	8.89	8.36	8.61	6.82	6.27	6.62
64	9.06	8.52	8.74	6.99	6.43	6.76
65	9.24	8.41	8.88	7.18	6.39	6.92
66	9.44	8.59	9.02	7.39	6.58	7.08
67	9.65	8.78	9.17	7.61	6.77	7.25
68	9.88	8.99	9.33	7.84	6.98	7.42
69	10.13	9.22	9.50	8.09	7.20	7.61
70	10.39	9.04	9.67	8.36	7.11	7.80
71	10.68	9.29	9.85	8.65	7.35	7.99
72	10.99	9.56	10.03	8.96	7.62	8.19
73	11.32	9.85	10.21	9.30	7.90	8.40
74	11.68	10.17	10.40	9.66	8.21	8.61
75	12.08	10.02	10.59	10.05	8.04	8.82

## TABLE 2 Joint Life Annuities

### Monthly Annuity Factors per \$1,000 Account Balance

**Instructions:** Table 2 contains eight sections. Tables 2A – 2D include the monthly annuity factors for the joint life *level payment* options (with 100% or 50% to the survivor, and with or without the cash refund feature). Tables 2E – 2H contain the annuity factors for the *increasing payment* options. Be sure you use the section of the table that matches your annuity choice.

When you have found the correct section of this table, find your age (at the expected annuity purchase date) in the left-hand column headed “Primary Annuitant’s Age.” Then find the

column corresponding to the **age difference** between you and your joint annuitant, which you calculated on line (4) of the worksheet. The table includes joint annuitant age differences from 10 years younger than you to 10 years older. (If the age difference between you and your joint annuitant exceeds 10 years, ask the TSP Service Office or your agency personnel office for the information you need from the *Thrift Savings Plan Comprehensive Tables of Annuity Rates*, February 2001 edition.) Find the number where the row for your age intersects the column for the age difference. Enter that number on the worksheet on line (7).

## 2A. Level Payment – No Cash Refund: 100% to Survivor

### Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$6.77	\$6.79	\$6.81	\$6.82	\$6.84	\$6.86	\$6.88	\$6.90	\$6.92	\$6.94	\$6.96	\$6.98	\$7.00	\$7.02	\$7.04	\$7.06	\$7.07	\$7.09	\$7.11	\$7.13	\$7.15
51	6.80	6.82	6.84	6.85	6.87	6.89	6.91	6.94	6.96	6.98	7.00	7.02	7.04	7.06	7.08	7.10	7.12	7.14	7.16	7.18	7.20
52	6.83	6.85	6.87	6.89	6.91	6.93	6.95	6.97	7.00	7.02	7.04	7.06	7.09	7.11	7.13	7.15	7.18	7.20	7.22	7.24	7.26
53	6.86	6.88	6.90	6.92	6.95	6.97	6.99	7.02	7.04	7.06	7.09	7.11	7.14	7.16	7.18	7.21	7.23	7.26	7.28	7.30	7.33
54	6.89	6.91	6.94	6.96	6.99	7.01	7.04	7.06	7.09	7.11	7.14	7.16	7.19	7.22	7.24	7.27	7.29	7.32	7.34	7.37	7.39
55	6.93	6.95	6.98	7.00	7.03	7.06	7.08	7.11	7.14	7.16	7.19	7.22	7.25	7.28	7.30	7.33	7.36	7.39	7.41	7.44	7.47
56	6.97	6.99	7.02	7.05	7.07	7.10	7.13	7.16	7.19	7.22	7.25	7.28	7.31	7.34	7.37	7.40	7.43	7.46	7.49	7.52	7.54
57	7.01	7.04	7.06	7.09	7.12	7.15	7.18	7.22	7.25	7.28	7.31	7.34	7.38	7.41	7.44	7.47	7.51	7.54	7.57	7.60	7.63
58	7.05	7.08	7.11	7.14	7.18	7.21	7.24	7.28	7.31	7.34	7.38	7.41	7.45	7.48	7.52	7.55	7.59	7.62	7.65	7.69	7.72
59	7.10	7.13	7.16	7.20	7.23	7.27	7.30	7.34	7.38	7.41	7.45	7.49	7.53	7.57	7.60	7.64	7.68	7.71	7.75	7.78	7.82
60	7.15	7.18	7.22	7.26	7.29	7.33	7.37	7.41	7.45	7.49	7.53	7.57	7.61	7.65	7.69	7.73	7.77	7.81	7.85	7.88	7.92
61	7.20	7.24	7.28	7.32	7.36	7.40	7.44	7.48	7.53	7.57	7.61	7.66	7.70	7.75	7.79	7.83	7.87	7.92	7.96	8.00	8.03
62	7.26	7.30	7.34	7.39	7.43	7.47	7.52	7.57	7.61	7.66	7.71	7.75	7.80	7.85	7.89	7.94	7.98	8.03	8.07	8.12	8.16
63	7.33	7.37	7.41	7.46	7.51	7.55	7.60	7.65	7.70	7.75	7.80	7.85	7.91	7.96	8.01	8.06	8.10	8.15	8.20	8.24	8.29
64	7.39	7.44	7.49	7.54	7.59	7.64	7.69	7.75	7.80	7.85	7.91	7.96	8.02	8.07	8.13	8.18	8.23	8.29	8.34	8.38	8.43
65	7.47	7.52	7.57	7.62	7.68	7.73	7.79	7.85	7.91	7.96	8.02	8.08	8.14	8.20	8.26	8.32	8.37	8.43	8.48	8.54	8.59
66	7.54	7.60	7.65	7.71	7.77	7.83	7.89	7.96	8.02	8.08	8.15	8.21	8.27	8.34	8.40	8.46	8.52	8.58	8.64	8.70	8.75
67	7.63	7.69	7.75	7.81	7.87	7.94	8.01	8.07	8.14	8.21	8.28	8.35	8.42	8.49	8.55	8.62	8.69	8.75	8.81	8.87	8.93
68	7.72	7.78	7.85	7.92	7.98	8.06	8.13	8.20	8.27	8.35	8.42	8.50	8.57	8.65	8.72	8.79	8.86	8.93	9.00	9.06	9.12
69	7.82	7.88	7.96	8.03	8.10	8.18	8.26	8.34	8.42	8.50	8.58	8.66	8.74	8.82	8.90	8.98	9.05	9.13	9.20	9.27	9.33
70	7.92	8.00	8.07	8.15	8.23	8.32	8.40	8.49	8.57	8.66	8.75	8.84	8.92	9.01	9.09	9.18	9.26	9.34	9.41	9.49	9.56
71	8.03	8.12	8.20	8.29	8.37	8.46	8.55	8.65	8.74	8.84	8.93	9.02	9.12	9.21	9.30	9.39	9.48	9.57	9.65	9.73	9.80
72	8.16	8.24	8.34	8.43	8.52	8.62	8.72	8.82	8.92	9.02	9.13	9.23	9.33	9.43	9.53	9.63	9.72	9.81	9.90	9.98	10.06
73	8.29	8.38	8.48	8.58	8.69	8.79	8.90	9.01	9.12	9.23	9.34	9.45	9.56	9.67	9.78	9.88	9.98	10.08	10.17	10.26	10.35
74	8.43	8.54	8.64	8.75	8.86	8.98	9.09	9.21	9.33	9.45	9.57	9.69	9.81	9.93	10.04	10.15	10.26	10.37	10.47	10.56	10.66
75	8.59	8.70	8.81	8.93	9.05	9.18	9.30	9.43	9.56	9.69	9.82	9.95	10.08	10.20	10.33	10.45	10.57	10.68	10.79	10.89	10.99

## 2B. Level Payment – No Cash Refund: 50% to Survivor

### Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$7.24	\$7.26	\$7.28	\$7.30	\$7.33	\$7.35	\$7.38	\$7.41	\$7.44	\$7.47	\$7.50	\$7.53	\$7.57	\$7.61	\$7.65	\$7.69	\$7.74	\$7.78	\$7.83	\$7.89	\$7.95
51	7.29	7.31	7.33	7.36	7.38	7.41	7.44	7.47	7.50	7.53	7.57	7.61	7.64	7.69	7.73	7.77	7.82	7.87	7.93	7.98	8.04
52	7.34	7.37	7.39	7.42	7.45	7.48	7.51	7.54	7.57	7.61	7.64	7.68	7.72	7.77	7.81	7.86	7.91	7.97	8.02	8.09	8.15
53	7.40	7.43	7.46	7.48	7.51	7.54	7.58	7.61	7.64	7.68	7.72	7.76	7.81	7.85	7.90	7.95	8.01	8.07	8.13	8.20	8.26
54	7.47	7.49	7.52	7.55	7.58	7.62	7.65	7.69	7.72	7.76	7.80	7.85	7.90	7.95	8.00	8.05	8.11	8.18	8.24	8.31	8.39
55	7.54	7.56	7.59	7.62	7.66	7.69	7.73	7.77	7.81	7.85	7.89	7.94	7.99	8.04	8.10	8.16	8.22	8.29	8.36	8.44	8.52
56	7.61	7.64	7.67	7.70	7.74	7.77	7.81	7.85	7.90	7.94	7.99	8.04	8.09	8.15	8.21	8.28	8.34	8.42	8.49	8.57	8.65
57	7.68	7.72	7.75	7.78	7.82	7.86	7.90	7.95	7.99	8.04	8.09	8.15	8.20	8.26	8.33	8.40	8.47	8.55	8.63	8.71	8.80
58	7.77	7.80	7.83	7.87	7.91	7.95	8.00	8.04	8.09	8.15	8.20	8.26	8.32	8.39	8.46	8.53	8.61	8.69	8.78	8.87	8.96
59	7.85	7.89	7.93	7.97	8.01	8.05	8.10	8.15	8.20	8.26	8.32	8.38	8.45	8.52	8.59	8.67	8.76	8.84	8.94	9.03	9.13
60	7.95	7.98	8.02	8.07	8.11	8.16	8.21	8.26	8.32	8.38	8.45	8.51	8.59	8.66	8.74	8.83	8.92	9.01	9.11	9.21	9.32
61	8.04	8.09	8.13	8.18	8.22	8.28	8.33	8.39	8.45	8.51	8.58	8.66	8.73	8.82	8.90	8.99	9.09	9.19	9.29	9.40	9.52
62	8.15	8.20	8.24	8.29	8.34	8.40	8.46	8.52	8.59	8.66	8.73	8.81	8.89	8.98	9.07	9.17	9.27	9.38	9.49	9.61	9.73
63	8.26	8.31	8.36	8.42	8.47	8.53	8.59	8.66	8.73	8.81	8.89	8.97	9.06	9.16	9.26	9.36	9.47	9.58	9.70	9.83	9.96
64	8.39	8.44	8.49	8.55	8.61	8.67	8.74	8.82	8.89	8.97	9.06	9.15	9.25	9.35	9.45	9.56	9.68	9.80	9.93	10.07	10.21
65	8.52	8.57	8.63	8.69	8.76	8.83	8.90	8.98	9.06	9.15	9.24	9.34	9.44	9.55	9.67	9.78	9.91	10.04	10.18	10.32	10.47
66	8.65	8.71	8.78	8.84	8.92	8.99	9.07	9.16	9.25	9.34	9.44	9.55	9.66	9.77	9.89	10.02	10.16	10.30	10.44	10.60	10.76
67	8.80	8.87	8.94	9.01	9.09	9.17	9.26	9.35	9.44	9.55	9.65	9.77	9.88	10.01	10.14	10.28	10.42	10.57	10.73	10.89	11.06
68	8.96	9.03	9.11	9.19	9.27	9.36	9.45	9.55	9.66	9.77	9.88	10.00	10.13	10.27	10.41	10.55	10.71	10.87	11.04	11.21	11.39
69	9.13	9.21	9.29	9.38	9.47	9.56	9.67	9.77	9.88	10.00	10.13	10.26	10.40	10.54	10.69	10.85	11.02	11.19	11.37	11.55	11.75
70	9.32	9.40	9.49	9.58	9.68	9.78	9.89	10.01	10.13	10.26	10.39	10.53	10.68	10.84	11.00	11.17	11.35	11.53	11.72	11.92	12.13
71	9.52	9.61	9.70	9.80	9.91	10.02	10.14	10.27	10.40	10.53	10.68	10.83	10.99	11.16	11.33	11.52	11.71	11.90	12.11	12.32	12.54
72	9.73	9.83	9.93	10.04	10.16	10.28	10.41	10.54	10.68	10.83	10.99	11.15	11.33	11.51	11.69	11.89	12.09	12.30	12.52	12.75	12.97
73	9.96	10.07	10.18	10.30	10.42	10.55	10.69	10.84	10.99	11.15	11.32	11.50	11.69	11.88	12.08	12.29	12.51	12.74	12.97	13.21	13.45
74	10.21	10.32	10.44	10.57	10.71	10.85	11.00	11.16	11.33	11.50	11.68	11.88	12.08	12.29	12.50	12.73	12.96	13.20	13.45	13.70	13.95
75	10.47	10.60	10.73	10.87	11.02	11.17	11.33	11.51	11.69	11.88	12.08	12.28	12.50	12.72	12.96	13.20	13.45	13.70	13.96	14.23	14.50

## 2C. Level Payment – With Cash Refund: 100% to Survivor

### Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$6.70	\$6.72	\$6.74	\$6.76	\$6.77	\$6.79	\$6.81	\$6.83	\$6.85	\$6.87	\$6.89	\$6.91	\$6.93	\$6.95	\$6.97	\$6.98	\$7.00	\$7.02	\$7.04	\$7.06	\$7.08
51	6.73	6.75	6.77	6.79	6.81	6.83	6.85	6.87	6.89	6.91	6.93	6.95	6.97	6.99	7.01	7.03	7.05	7.07	7.09	7.11	7.13
52	6.76	6.78	6.80	6.82	6.84	6.86	6.88	6.90	6.93	6.95	6.97	6.99	7.02	7.04	7.06	7.08	7.10	7.13	7.15	7.17	7.19
53	6.79	6.81	6.83	6.85	6.88	6.90	6.92	6.95	6.97	6.99	7.02	7.04	7.07	7.09	7.11	7.14	7.16	7.18	7.21	7.23	7.25
54	6.82	6.85	6.87	6.89	6.92	6.94	6.97	6.99	7.02	7.04	7.07	7.09	7.12	7.14	7.17	7.20	7.22	7.25	7.27	7.30	7.32
55	6.86	6.88	6.91	6.93	6.96	6.98	7.01	7.04	7.07	7.09	7.12	7.15	7.18	7.20	7.23	7.26	7.29	7.31	7.34	7.37	7.39
56	6.90	6.92	6.95	6.98	7.00	7.03	7.06	7.09	7.12	7.15	7.18	7.21	7.24	7.27	7.30	7.33	7.36	7.38	7.41	7.44	7.47
57	6.94	6.96	6.99	7.02	7.05	7.08	7.11	7.14	7.18	7.21	7.24	7.27	7.30	7.34	7.37	7.40	7.43	7.46	7.49	7.52	7.55
58	6.98	7.01	7.04	7.07	7.10	7.14	7.17	7.20	7.24	7.27	7.31	7.34	7.38	7.41	7.44	7.48	7.51	7.55	7.58	7.61	7.64
59	7.03	7.06	7.09	7.13	7.16	7.20	7.23	7.27	7.30	7.34	7.38	7.41	7.45	7.49	7.53	7.56	7.60	7.64	7.67	7.70	7.74
60	7.08	7.11	7.15	7.18	7.22	7.26	7.30	7.34	7.38	7.41	7.45	7.50	7.54	7.58	7.62	7.65	7.69	7.73	7.77	7.81	7.84
61	7.13	7.17	7.21	7.25	7.29	7.33	7.37	7.41	7.45	7.50	7.54	7.58	7.63	7.67	7.71	7.75	7.80	7.84	7.88	7.92	7.95
62	7.19	7.23	7.27	7.31	7.36	7.40	7.44	7.49	7.54	7.58	7.63	7.68	7.72	7.77	7.81	7.86	7.91	7.95	7.99	8.03	8.08
63	7.25	7.30	7.34	7.38	7.43	7.48	7.53	7.58	7.63	7.68	7.73	7.78	7.83	7.88	7.93	7.98	8.02	8.07	8.12	8.16	8.21
64	7.32	7.37	7.41	7.46	7.51	7.56	7.62	7.67	7.72	7.78	7.83	7.88	7.94	7.99	8.05	8.10	8.15	8.20	8.25	8.30	8.35
65	7.39	7.44	7.49	7.55	7.60	7.65	7.71	7.77	7.83	7.88	7.94	8.00	8.06	8.12	8.18	8.23	8.29	8.34	8.40	8.45	8.50
66	7.47	7.52	7.58	7.64	7.69	7.75	7.81	7.88	7.94	8.00	8.07	8.13	8.19	8.26	8.32	8.38	8.44	8.50	8.55	8.61	8.66
67	7.55	7.61	7.67	7.73	7.80	7.86	7.93	7.99	8.06	8.13	8.20	8.27	8.33	8.40	8.47	8.54	8.60	8.66	8.72	8.78	8.84
68	7.64	7.70	7.77	7.84	7.91	7.98	8.05	8.12	8.19	8.27	8.34	8.41	8.49	8.56	8.63	8.70	8.77	8.84	8.91	8.97	9.03
69	7.74	7.81	7.88	7.95	8.02	8.10	8.18	8.26	8.33	8.41	8.49	8.57	8.65	8.73	8.81	8.89	8.96	9.04	9.11	9.17	9.24
70	7.84	7.92	7.99	8.07	8.15	8.23	8.32	8.40	8.49	8.57	8.66	8.75	8.83	8.92	9.00	9.08	9.17	9.24	9.32	9.39	9.46
71	7.95	8.03	8.12	8.20	8.29	8.38	8.47	8.56	8.65	8.75	8.84	8.93	9.03	9.12	9.21	9.30	9.39	9.47	9.55	9.63	9.70
72	8.08	8.16	8.25	8.34	8.44	8.54	8.63	8.73	8.83	8.93	9.04	9.14	9.24	9.34	9.43	9.53	9.62	9.71	9.80	9.88	9.96
73	8.21	8.30	8.40	8.50	8.60	8.70	8.81	8.92	9.03	9.14	9.25	9.36	9.46	9.57	9.68	9.78	9.88	9.98	10.07	10.16	10.25
74	8.35	8.45	8.55	8.66	8.77	8.89	9.00	9.12	9.24	9.36	9.47	9.59	9.71	9.83	9.94	10.05	10.16	10.26	10.36	10.46	10.55
75	8.41	8.52	8.64	8.75	8.87	8.99	9.12	9.24	9.37	9.50	9.62	9.75	9.88	10.00	10.12	10.24	10.35	10.47	10.57	10.67	10.77

## 2D. Level Payment – With Cash Refund: 50% to Survivor

### Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$7.16	\$7.18	\$7.20	\$7.23	\$7.25	\$7.28	\$7.30	\$7.33	\$7.36	\$7.39	\$7.43	\$7.46	\$7.50	\$7.53	\$7.57	\$7.62	\$7.66	\$7.71	\$7.76	\$7.81	\$7.87
51	7.22	7.24	7.26	7.28	7.31	7.34	7.37	7.40	7.43	7.46	7.49	7.53	7.57	7.61	7.65	7.70	7.74	7.79	7.85	7.90	7.96
52	7.27	7.29	7.32	7.34	7.37	7.40	7.43	7.46	7.50	7.53	7.57	7.61	7.65	7.69	7.73	7.78	7.83	7.89	7.94	8.01	8.07
53	7.33	7.35	7.38	7.41	7.44	7.47	7.50	7.53	7.57	7.61	7.64	7.69	7.73	7.77	7.82	7.87	7.93	7.99	8.05	8.11	8.18
54	7.39	7.42	7.45	7.48	7.51	7.54	7.57	7.61	7.65	7.69	7.73	7.77	7.82	7.87	7.92	7.97	8.03	8.09	8.16	8.23	8.30
55	7.38	7.41	7.44	7.47	7.50	7.54	7.57	7.61	7.65	7.69	7.74	7.78	7.83	7.88	7.94	8.00	8.06	8.13	8.19	8.27	8.35
56	7.45	7.48	7.52	7.55	7.58	7.62	7.66	7.70	7.74	7.78	7.83	7.88	7.93	7.99	8.05	8.11	8.18	8.25	8.32	8.40	8.48
57	7.53	7.56	7.59	7.63	7.67	7.70	7.74	7.79	7.83	7.88	7.93	7.98	8.04	8.10	8.16	8.23	8.30	8.38	8.46	8.54	8.63
58	7.61	7.64	7.68	7.72	7.75	7.79	7.84	7.88	7.93	7.98	8.04	8.09	8.16	8.22	8.29	8.36	8.44	8.52	8.60	8.69	8.78
59	7.70	7.73	7.77	7.81	7.85	7.89	7.94	7.99	8.04	8.09	8.15	8.21	8.28	8.35	8.42	8.50	8.58	8.67	8.76	8.85	8.95
60	7.71	7.74	7.78	7.83	7.87	7.92	7.96	8.02	8.07	8.13	8.19	8.26	8.33	8.40	8.48	8.56	8.65	8.74	8.83	8.93	9.04
61	7.80	7.84	7.89	7.93	7.98	8.03	8.08	8.14	8.20	8.26	8.33	8.40	8.47	8.55	8.63	8.72	8.81	8.91	9.01	9.12	9.23
62	7.91	7.95	7.99	8.04	8.09	8.15	8.20	8.26	8.33	8.40	8.47	8.55	8.63	8.71	8.80	8.89	8.99	9.10	9.20	9.32	9.44
63	8.02	8.06	8.11	8.16	8.22	8.28	8.34	8.40	8.47	8.55	8.62	8.70	8.79	8.88	8.98	9.08	9.18	9.30	9.41	9.53	9.66
64	8.13	8.18	8.24	8.29	8.35	8.41	8.48	8.55	8.63	8.70	8.79	8.88	8.97	9.07	9.17	9.28	9.39	9.51	9.63	9.76	9.90
65	8.18	8.23	8.28	8.34	8.41	8.47	8.55	8.62	8.70	8.79	8.87	8.97	9.07	9.17	9.28	9.39	9.51	9.64	9.77	9.91	10.05
66	8.31	8.37	8.43	8.49	8.56	8.63	8.71	8.79	8.88	8.97	9.06	9.16	9.27	9.38	9.50	9.62	9.75	9.89	10.03	10.17	10.33
67	8.45	8.51	8.58	8.65	8.72	8.80	8.89	8.97	9.07	9.16	9.27	9.38	9.49	9.61	9.73	9.87	10.01	10.15	10.30	10.46	10.62
68	8.60	8.67	8.74	8.82	8.90	8.98	9.08	9.17	9.27	9.38	9.49	9.60	9.73	9.85	9.99	10.13	10.28	10.43	10.60	10.76	10.94
69	8.77	8.84	8.92	9.00	9.09	9.18	9.28	9.38	9.49	9.60	9.72	9.85	9.98	10.12	10.26	10.42	10.58	10.74	10.91	11.09	11.28
70	8.76	8.84	8.92	9.01	9.10	9.20	9.30	9.41	9.52	9.64	9.77	9.90	10.04	10.19	10.34	10.50	10.67	10.84	11.02	11.21	11.40
71	8.95	9.03	9.12	9.22	9.32	9.42	9.53	9.65	9.77	9.90	10.04	10.18	10.33	10.49	10.65	10.83	11.00	11.19	11.38	11.58	11.78
72	9.15	9.24	9.34	9.44	9.55	9.66	9.78	9.91	10.04	10.18	10.33	10.48	10.65	10.82	10.99	11.18	11.37	11.57	11.77	11.98	12.20
73	9.36	9.46	9.57	9.68	9.80	9.92	10.05	10.19	10.33	10.48	10.64	10.81	10.99	11.17	11.36	11.56	11.76	11.97	12.19	12.41	12.64
74	9.59	9.70	9.82	9.94	10.07	10.20	10.34	10.49	10.65	10.81	10.98	11.16	11.35	11.55	11.75	11.97	12.18	12.41	12.64	12.88	13.12
75	9.63	9.75	9.87	10.00	10.13	10.28	10.43	10.59	10.75	10.93	11.11	11.30	11.50	11.71	11.92	12.14	12.37	12.61	12.85	13.09	13.34

## 2E. Increasing Payment – No Cash Refund: 100% to Survivor Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$4.49	\$4.51	\$4.54	\$4.57	\$4.60	\$4.62	\$4.65	\$4.68	\$4.70	\$4.73	\$4.76	\$4.78	\$4.81	\$4.83	\$4.86	\$4.88	\$4.91	\$4.93	\$4.95	\$4.97	\$5.00
51	4.53	4.56	4.58	4.61	4.64	4.67	4.70	4.73	4.76	4.78	4.81	4.84	4.87	4.89	4.92	4.95	4.97	4.99	5.02	5.04	5.06
52	4.57	4.60	4.63	4.66	4.69	4.72	4.75	4.78	4.81	4.84	4.87	4.90	4.93	4.96	4.98	5.01	5.04	5.06	5.09	5.11	5.14
53	4.61	4.64	4.68	4.71	4.74	4.77	4.80	4.83	4.87	4.90	4.93	4.96	4.99	5.02	5.05	5.08	5.11	5.13	5.16	5.19	5.21
54	4.66	4.69	4.72	4.76	4.79	4.83	4.86	4.89	4.93	4.96	4.99	5.03	5.06	5.09	5.12	5.15	5.18	5.21	5.24	5.27	5.29
55	4.71	4.74	4.78	4.81	4.85	4.88	4.92	4.96	4.99	5.03	5.06	5.10	5.13	5.16	5.20	5.23	5.26	5.29	5.32	5.35	5.38
56	4.76	4.80	4.83	4.87	4.91	4.95	4.98	5.02	5.06	5.10	5.13	5.17	5.21	5.24	5.28	5.31	5.35	5.38	5.41	5.44	5.47
57	4.81	4.85	4.89	4.93	4.97	5.01	5.05	5.09	5.13	5.17	5.21	5.25	5.29	5.33	5.36	5.40	5.44	5.47	5.50	5.54	5.57
58	4.87	4.91	4.95	4.99	5.04	5.08	5.12	5.16	5.21	5.25	5.29	5.33	5.37	5.41	5.45	5.49	5.53	5.57	5.60	5.64	5.67
59	4.93	4.97	5.02	5.06	5.11	5.15	5.20	5.24	5.29	5.33	5.38	5.42	5.47	5.51	5.55	5.59	5.63	5.67	5.71	5.75	5.78
60	5.00	5.04	5.09	5.13	5.18	5.23	5.28	5.33	5.37	5.42	5.47	5.52	5.56	5.61	5.65	5.70	5.74	5.78	5.82	5.86	5.90
61	5.06	5.11	5.16	5.21	5.26	5.31	5.36	5.41	5.47	5.52	5.57	5.62	5.67	5.72	5.77	5.81	5.86	5.90	5.94	5.98	6.02
62	5.14	5.19	5.24	5.29	5.35	5.40	5.45	5.51	5.56	5.62	5.67	5.73	5.78	5.83	5.88	5.93	5.98	6.03	6.07	6.12	6.16
63	5.21	5.27	5.32	5.38	5.44	5.49	5.55	5.61	5.67	5.73	5.78	5.84	5.90	5.95	6.01	6.06	6.11	6.16	6.21	6.26	6.30
64	5.29	5.35	5.41	5.47	5.53	5.59	5.65	5.72	5.78	5.84	5.90	5.97	6.03	6.09	6.14	6.20	6.26	6.31	6.36	6.41	6.46
65	5.38	5.44	5.50	5.57	5.63	5.70	5.77	5.83	5.90	5.97	6.03	6.10	6.16	6.23	6.29	6.35	6.41	6.46	6.52	6.57	6.62
66	5.47	5.54	5.60	5.67	5.74	5.81	5.88	5.95	6.03	6.10	6.17	6.24	6.31	6.38	6.44	6.51	6.57	6.63	6.69	6.75	6.80
67	5.57	5.64	5.71	5.78	5.86	5.93	6.01	6.09	6.16	6.24	6.32	6.39	6.46	6.54	6.61	6.68	6.75	6.81	6.87	6.93	6.99
68	5.67	5.75	5.82	5.90	5.98	6.06	6.14	6.23	6.31	6.39	6.47	6.55	6.63	6.71	6.79	6.86	6.93	7.00	7.07	7.13	7.19
69	5.78	5.86	5.94	6.03	6.11	6.20	6.29	6.38	6.46	6.55	6.64	6.73	6.81	6.90	6.98	7.06	7.13	7.21	7.28	7.35	7.41
70	5.90	5.98	6.07	6.16	6.26	6.35	6.44	6.54	6.63	6.73	6.82	6.91	7.00	7.09	7.18	7.27	7.35	7.43	7.50	7.58	7.64
71	6.02	6.12	6.21	6.31	6.41	6.51	6.61	6.71	6.81	6.91	7.01	7.11	7.21	7.31	7.40	7.49	7.58	7.67	7.75	7.82	7.90
72	6.16	6.26	6.36	6.46	6.57	6.68	6.79	6.90	7.00	7.11	7.22	7.33	7.44	7.54	7.64	7.74	7.83	7.92	8.01	8.09	8.17
73	6.30	6.41	6.52	6.63	6.75	6.86	6.98	7.09	7.21	7.33	7.45	7.56	7.68	7.79	7.89	8.00	8.10	8.20	8.29	8.38	8.46
74	6.46	6.57	6.69	6.81	6.93	7.06	7.18	7.31	7.44	7.56	7.69	7.81	7.93	8.05	8.17	8.28	8.39	8.49	8.59	8.68	8.77
75	6.62	6.75	6.87	7.00	7.13	7.27	7.40	7.54	7.68	7.81	7.95	8.08	8.21	8.34	8.47	8.59	8.70	8.81	8.92	9.02	9.11

## 2F. Increasing Payment – No Cash Refund: 50% to Survivor

### Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$4.98	\$5.01	\$5.04	\$5.07	\$5.10	\$5.13	\$5.16	\$5.20	\$5.23	\$5.27	\$5.31	\$5.35	\$5.39	\$5.43	\$5.47	\$5.52	\$5.57	\$5.62	\$5.67	\$5.72	\$5.78
51	5.04	5.07	5.10	5.13	5.17	5.20	5.23	5.27	5.31	5.35	5.39	5.43	5.47	5.52	5.56	5.61	5.66	5.71	5.77	5.83	5.89
52	5.11	5.14	5.17	5.20	5.24	5.27	5.31	5.35	5.39	5.43	5.47	5.51	5.56	5.61	5.66	5.71	5.76	5.82	5.88	5.94	6.00
53	5.18	5.21	5.24	5.28	5.31	5.35	5.39	5.43	5.47	5.51	5.56	5.60	5.65	5.70	5.76	5.81	5.87	5.93	5.99	6.06	6.12
54	5.25	5.29	5.32	5.36	5.39	5.43	5.47	5.52	5.56	5.60	5.65	5.70	5.75	5.80	5.86	5.92	5.98	6.04	6.11	6.18	6.25
55	5.33	5.36	5.40	5.44	5.48	5.52	5.56	5.61	5.65	5.70	5.75	5.80	5.86	5.91	5.97	6.04	6.10	6.17	6.24	6.31	6.39
56	5.41	5.45	5.49	5.53	5.57	5.61	5.66	5.70	5.75	5.80	5.86	5.91	5.97	6.03	6.09	6.16	6.23	6.30	6.37	6.45	6.53
57	5.49	5.53	5.57	5.62	5.66	5.71	5.76	5.80	5.86	5.91	5.97	6.03	6.09	6.15	6.22	6.29	6.36	6.44	6.52	6.60	6.69
58	5.58	5.63	5.67	5.71	5.76	5.81	5.86	5.91	5.97	6.03	6.09	6.15	6.22	6.28	6.36	6.43	6.51	6.59	6.67	6.76	6.85
59	5.68	5.72	5.77	5.82	5.87	5.92	5.97	6.03	6.09	6.15	6.21	6.28	6.35	6.42	6.50	6.58	6.66	6.75	6.84	6.93	7.03
60	5.78	5.83	5.88	5.93	5.98	6.04	6.09	6.15	6.22	6.28	6.35	6.42	6.50	6.57	6.66	6.74	6.83	6.92	7.02	7.12	7.22
61	5.89	5.94	5.99	6.04	6.10	6.16	6.22	6.28	6.35	6.42	6.49	6.57	6.65	6.74	6.82	6.91	7.01	7.10	7.21	7.31	7.42
62	6.00	6.06	6.11	6.17	6.23	6.29	6.36	6.42	6.50	6.57	6.65	6.73	6.82	6.91	7.00	7.10	7.20	7.30	7.41	7.52	7.64
63	6.12	6.18	6.24	6.30	6.36	6.43	6.50	6.57	6.65	6.73	6.82	6.90	7.00	7.09	7.19	7.29	7.40	7.51	7.62	7.74	7.87
64	6.25	6.31	6.37	6.44	6.51	6.58	6.66	6.74	6.82	6.90	6.99	7.09	7.19	7.29	7.39	7.50	7.62	7.73	7.86	7.98	8.11
65	6.39	6.45	6.52	6.59	6.66	6.74	6.82	6.91	7.00	7.09	7.18	7.28	7.39	7.50	7.61	7.73	7.85	7.98	8.11	8.24	8.38
66	6.53	6.60	6.67	6.75	6.83	6.91	7.00	7.09	7.19	7.28	7.39	7.50	7.61	7.72	7.84	7.97	8.10	8.23	8.37	8.52	8.66
67	6.69	6.76	6.84	6.92	7.01	7.10	7.19	7.29	7.39	7.50	7.61	7.72	7.84	7.97	8.09	8.23	8.37	8.51	8.66	8.81	8.97
68	6.85	6.93	7.02	7.10	7.20	7.29	7.39	7.50	7.61	7.72	7.84	7.96	8.09	8.22	8.36	8.51	8.66	8.81	8.97	9.13	9.30
69	7.03	7.12	7.21	7.30	7.40	7.50	7.61	7.72	7.84	7.96	8.09	8.22	8.36	8.50	8.65	8.81	8.97	9.13	9.30	9.47	9.65
70	7.22	7.31	7.41	7.51	7.62	7.73	7.84	7.97	8.09	8.22	8.36	8.50	8.65	8.80	8.96	9.13	9.30	9.47	9.65	9.84	10.03
71	7.42	7.52	7.62	7.73	7.85	7.97	8.09	8.22	8.36	8.50	8.65	8.80	8.96	9.13	9.30	9.48	9.66	9.84	10.04	10.23	10.43
72	7.64	7.74	7.86	7.98	8.10	8.23	8.36	8.50	8.65	8.80	8.96	9.13	9.30	9.48	9.66	9.85	10.04	10.24	10.45	10.66	10.87
73	7.87	7.98	8.11	8.23	8.37	8.51	8.65	8.80	8.96	9.13	9.30	9.48	9.66	9.85	10.05	10.25	10.46	10.67	10.89	11.11	11.33
74	8.11	8.24	8.37	8.51	8.66	8.81	8.96	9.13	9.30	9.48	9.66	9.85	10.05	10.26	10.47	10.69	10.91	11.13	11.37	11.60	11.84
75	8.38	8.52	8.66	8.81	8.97	9.13	9.30	9.48	9.66	9.85	10.05	10.26	10.47	10.69	10.92	11.15	11.39	11.63	11.88	12.13	12.37

## 2G. Increasing Payment – With Cash Refund: 100% to Survivor Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$4.44	\$4.47	\$4.50	\$4.52	\$4.55	\$4.58	\$4.60	\$4.63	\$4.66	\$4.68	\$4.71	\$4.74	\$4.76	\$4.79	\$4.81	\$4.83	\$4.86	\$4.88	\$4.90	\$4.92	\$4.95
51	4.48	4.51	4.54	4.57	4.59	4.62	4.65	4.68	4.71	4.74	4.76	4.79	4.82	4.84	4.87	4.90	4.92	4.94	4.97	4.99	5.01
52	4.52	4.55	4.58	4.61	4.64	4.67	4.70	4.73	4.76	4.79	4.82	4.85	4.88	4.91	4.93	4.96	4.99	5.01	5.04	5.06	5.08
53	4.57	4.60	4.63	4.66	4.69	4.72	4.75	4.79	4.82	4.85	4.88	4.91	4.94	4.97	5.00	5.03	5.06	5.08	5.11	5.13	5.16
54	4.61	4.64	4.68	4.71	4.74	4.78	4.81	4.84	4.88	4.91	4.94	4.98	5.01	5.04	5.07	5.10	5.13	5.16	5.19	5.21	5.24
55	4.66	4.69	4.73	4.76	4.80	4.83	4.87	4.91	4.94	4.98	5.01	5.04	5.08	5.11	5.15	5.18	5.21	5.24	5.27	5.30	5.32
56	4.71	4.75	4.78	4.82	4.86	4.90	4.93	4.97	5.01	5.04	5.08	5.12	5.15	5.19	5.22	5.26	5.29	5.32	5.36	5.39	5.41
57	4.77	4.80	4.84	4.88	4.92	4.96	5.00	5.04	5.08	5.12	5.16	5.20	5.23	5.27	5.31	5.35	5.38	5.42	5.45	5.48	5.51
58	4.82	4.86	4.90	4.94	4.99	5.03	5.07	5.11	5.15	5.20	5.24	5.28	5.32	5.36	5.40	5.44	5.48	5.51	5.55	5.58	5.61
59	4.88	4.92	4.97	5.01	5.06	5.10	5.15	5.19	5.23	5.28	5.32	5.37	5.41	5.45	5.50	5.54	5.58	5.61	5.65	5.69	5.72
60	4.95	4.99	5.04	5.08	5.13	5.18	5.22	5.27	5.32	5.37	5.41	5.46	5.51	5.55	5.60	5.64	5.68	5.72	5.76	5.80	5.84
61	5.01	5.06	5.11	5.16	5.21	5.26	5.31	5.36	5.41	5.46	5.51	5.56	5.61	5.66	5.71	5.75	5.80	5.84	5.88	5.92	5.96
62	5.08	5.13	5.19	5.24	5.29	5.35	5.40	5.45	5.51	5.56	5.62	5.67	5.72	5.77	5.82	5.87	5.92	5.97	6.01	6.06	6.10
63	5.16	5.21	5.27	5.32	5.38	5.44	5.50	5.55	5.61	5.67	5.73	5.78	5.84	5.90	5.95	6.00	6.05	6.10	6.15	6.20	6.24
64	5.24	5.30	5.36	5.42	5.48	5.54	5.60	5.66	5.72	5.78	5.85	5.91	5.97	6.03	6.08	6.14	6.19	6.25	6.30	6.35	6.39
65	5.27	5.33	5.39	5.46	5.52	5.58	5.65	5.72	5.78	5.85	5.91	5.98	6.04	6.10	6.16	6.22	6.28	6.34	6.39	6.44	6.49
66	5.36	5.42	5.49	5.56	5.63	5.70	5.77	5.84	5.91	5.98	6.05	6.11	6.18	6.25	6.31	6.38	6.44	6.50	6.56	6.61	6.66
67	5.45	5.52	5.59	5.67	5.74	5.81	5.89	5.96	6.04	6.11	6.19	6.26	6.34	6.41	6.48	6.54	6.61	6.67	6.73	6.79	6.85
68	5.56	5.63	5.71	5.78	5.86	5.94	6.02	6.10	6.18	6.26	6.34	6.42	6.50	6.58	6.65	6.72	6.79	6.86	6.93	6.99	7.05
69	5.66	5.74	5.82	5.91	5.99	6.08	6.16	6.25	6.34	6.42	6.51	6.59	6.68	6.76	6.84	6.92	6.99	7.06	7.13	7.20	7.26
70	5.78	5.86	5.95	6.04	6.13	6.22	6.31	6.41	6.50	6.59	6.68	6.77	6.86	6.95	7.04	7.12	7.20	7.28	7.35	7.42	7.49
71	5.90	5.99	6.09	6.18	6.28	6.38	6.48	6.58	6.68	6.77	6.87	6.97	7.07	7.16	7.25	7.34	7.43	7.51	7.59	7.67	7.74
72	6.04	6.13	6.23	6.34	6.44	6.54	6.65	6.76	6.86	6.97	7.08	7.18	7.29	7.39	7.49	7.58	7.67	7.76	7.85	7.93	8.00
73	6.18	6.28	6.39	6.50	6.61	6.72	6.84	6.95	7.07	7.18	7.30	7.41	7.52	7.63	7.74	7.84	7.94	8.03	8.12	8.21	8.29
74	6.33	6.44	6.56	6.67	6.79	6.92	7.04	7.16	7.29	7.41	7.53	7.66	7.78	7.89	8.01	8.12	8.22	8.32	8.42	8.51	8.60
75	6.42	6.54	6.67	6.79	6.92	7.05	7.18	7.31	7.45	7.58	7.71	7.84	7.97	8.09	8.21	8.33	8.44	8.55	8.65	8.75	8.83

## 2H. Increasing Payment – With Cash Refund: 50% to Survivor Joint Annuitant's Age

Primary Annuitant's Age	Years Younger										Same Age	Years Older									
	10	9	8	7	6	5	4	3	2	1		1	2	3	4	5	6	7	8	9	10
50	\$4.88	\$4.91	\$4.94	\$4.97	\$5.00	\$5.03	\$5.06	\$5.09	\$5.13	\$5.16	\$5.20	\$5.24	\$5.28	\$5.32	\$5.36	\$5.41	\$5.46	\$5.50	\$5.56	\$5.61	\$5.67
51	4.94	4.97	5.00	5.03	5.06	5.10	5.13	5.16	5.20	5.24	5.28	5.32	5.36	5.40	5.45	5.50	5.55	5.60	5.65	5.71	5.77
52	5.01	5.04	5.07	5.10	5.13	5.17	5.20	5.24	5.28	5.32	5.36	5.40	5.45	5.49	5.54	5.59	5.65	5.70	5.76	5.82	5.88
53	5.08	5.11	5.14	5.17	5.21	5.24	5.28	5.32	5.36	5.40	5.45	5.49	5.54	5.59	5.64	5.69	5.75	5.81	5.87	5.93	6.00
54	5.15	5.18	5.21	5.25	5.29	5.32	5.36	5.40	5.45	5.49	5.54	5.59	5.64	5.69	5.74	5.80	5.86	5.92	5.99	6.06	6.13
55	5.17	5.20	5.24	5.28	5.31	5.35	5.40	5.44	5.48	5.53	5.58	5.63	5.68	5.74	5.79	5.85	5.92	5.98	6.05	6.12	6.20
56	5.25	5.28	5.32	5.36	5.40	5.44	5.49	5.53	5.58	5.63	5.68	5.73	5.79	5.85	5.91	5.97	6.04	6.11	6.18	6.26	6.34
57	5.33	5.37	5.41	5.45	5.49	5.54	5.58	5.63	5.68	5.73	5.79	5.85	5.91	5.97	6.03	6.10	6.17	6.25	6.32	6.40	6.49
58	5.42	5.46	5.50	5.54	5.59	5.64	5.68	5.74	5.79	5.85	5.90	5.96	6.03	6.10	6.17	6.24	6.31	6.39	6.47	6.56	6.65
59	5.51	5.55	5.60	5.64	5.69	5.74	5.79	5.85	5.91	5.96	6.03	6.09	6.16	6.23	6.31	6.38	6.46	6.55	6.63	6.72	6.82
60	5.55	5.59	5.64	5.69	5.74	5.79	5.85	5.91	5.97	6.03	6.10	6.16	6.24	6.31	6.39	6.47	6.56	6.64	6.74	6.83	6.93
61	5.65	5.70	5.75	5.80	5.86	5.91	5.97	6.03	6.10	6.16	6.24	6.31	6.39	6.47	6.55	6.64	6.73	6.82	6.92	7.02	7.12
62	5.76	5.81	5.87	5.92	5.98	6.04	6.10	6.17	6.24	6.31	6.38	6.46	6.55	6.63	6.72	6.81	6.91	7.01	7.11	7.22	7.33
63	5.88	5.93	5.99	6.05	6.11	6.17	6.24	6.31	6.39	6.46	6.54	6.63	6.72	6.81	6.90	7.00	7.10	7.21	7.32	7.43	7.55
64	6.00	6.06	6.12	6.18	6.25	6.32	6.39	6.47	6.55	6.63	6.71	6.80	6.90	7.00	7.10	7.20	7.31	7.43	7.54	7.66	7.79
65	6.00	6.07	6.13	6.19	6.26	6.34	6.41	6.49	6.58	6.66	6.75	6.85	6.95	7.05	7.15	7.26	7.38	7.50	7.62	7.75	7.88
66	6.14	6.21	6.27	6.35	6.42	6.50	6.58	6.67	6.75	6.85	6.94	7.05	7.15	7.26	7.37	7.49	7.61	7.74	7.87	8.01	8.14
67	6.29	6.36	6.43	6.51	6.59	6.67	6.76	6.85	6.95	7.05	7.15	7.26	7.37	7.49	7.61	7.73	7.87	8.00	8.14	8.28	8.43
68	6.44	6.52	6.60	6.68	6.76	6.85	6.95	7.05	7.15	7.26	7.37	7.49	7.61	7.73	7.86	8.00	8.14	8.28	8.43	8.58	8.74
69	6.61	6.69	6.77	6.86	6.96	7.05	7.15	7.26	7.37	7.49	7.60	7.73	7.86	7.99	8.13	8.28	8.43	8.58	8.74	8.90	9.07
70	6.64	6.73	6.82	6.91	7.01	7.11	7.22	7.33	7.44	7.56	7.69	7.82	7.96	8.10	8.25	8.40	8.55	8.72	8.88	9.05	9.22
71	6.83	6.92	7.01	7.12	7.22	7.33	7.45	7.57	7.69	7.82	7.96	8.10	8.25	8.40	8.55	8.72	8.88	9.06	9.23	9.41	9.60
72	7.02	7.12	7.23	7.34	7.45	7.57	7.69	7.82	7.96	8.10	8.25	8.40	8.55	8.72	8.89	9.06	9.24	9.42	9.61	9.80	10.00
73	7.24	7.34	7.46	7.58	7.70	7.83	7.96	8.10	8.25	8.40	8.55	8.72	8.89	9.06	9.24	9.43	9.62	9.82	10.02	10.22	10.43
74	7.47	7.58	7.70	7.83	7.96	8.10	8.25	8.40	8.55	8.72	8.89	9.07	9.25	9.44	9.63	9.83	10.04	10.24	10.46	10.67	10.89
75	7.46	7.58	7.71	7.84	7.98	8.12	8.28	8.43	8.60	8.77	8.95	9.13	9.32	9.52	9.72	9.93	10.14	10.35	10.57	10.79	11.01

**TABLE 3**

## Single Life Annuities

### Interest Adjustment Factors

**Instructions:** Find your age (at the expected annuity purchase date) in the left-hand column headed “Annuitant’s Age Bracket.” Find the column that describes the annuity option you

are estimating. Then find the number where the row for your age intersects the column for your annuity option. Enter that number on the worksheet on line (12).

Annuitant’s Age Bracket	Level Payment			Increasing Payment		
	No Added Features	Cash Refund	10-Year Certain	No Added Features	Cash Refund	10-Year Certain
50-54	0.101	0.101	0.102	0.130	0.130	0.129
55-59	0.092	0.092	0.091	0.114	0.114	0.112
60-64	0.083	0.083	0.083	0.100	0.100	0.099
65-75	0.075	0.075	0.074	0.088	0.088	0.087

**TABLE 4**

# Joint Life Annuities

## Interest Adjustment Factors

**Instructions:** Select Table 4A or 4B depending on your choice of level or increasing payments. Find your age (at the expected annuity purchase date) in the left-hand column headed “Primary Annuitant’s Age Bracket.” Find the column that describes the annuity option you are estimating and the **age difference** between you and your joint annuitant. Note: This table applies whether you elect a joint life annuity with or without a

cash refund. (If your joint annuitant is more than 10 years younger than you, ask the TSP Service Office or your agency personnel office for information from the *Thrift Savings Plan Comprehensive Tables of Annuity Rates*, February 2001 edition.) Find the number where the row for your age intersects the column for your annuity option. Enter that number on the worksheet on line (12).

### A. Level Payment

Primary Annuitant’s Age Bracket	100% to Survivor		50% to Survivor	
	Joint Annuitant’s Age		Joint Annuitant’s Age	
	10 Years Younger to 5 Years Older	More than 5 Years Older	10 Years Younger to 5 Years Older	More than 5 Years Older
50-54	0.111	0.106	0.105	0.095
55-59	0.103	0.095	0.094	0.083
60-64	0.097	0.086	0.086	0.075
65-75	0.087	0.077	0.077	0.065

### B. Increasing Payment

Primary Annuitant’s Age Bracket	100% to Survivor		50% to Survivor	
	Joint Annuitant’s Age		Joint Annuitant’s Age	
	10 Years Younger to 5 Years Older	More than 5 Years Older	10 Years Younger to 5 Years Older	More than 5 Years Older
50-54	0.147	0.136	0.133	0.117
55-59	0.131	0.116	0.117	0.101
60-64	0.117	0.103	0.104	0.089
65-75	0.102	0.091	0.091	0.077

