

APA-1

TRANSMITTAL SHEET FOR NOTICE OF INTENDED ACTION

Control: 482
Department or Agency: Alabama Department of Insurance
Rule No.: Chapter 482-1-120
Rule Title: Valuation of Life Insurance Policies (Including the Introduction and Use of New Select Mortality Factors)
Intended Action: Amend

Would the absence of the proposed rule significantly harm or endanger the public health, welfare, or safety? No

Is there a reasonable relationship between the state's police power and the protection of the public health, safety, or welfare? Yes

Is there another, less restrictive method of regulation available that could adequately protect the public? No

Does the proposed rule have the effect of directly or indirectly increasing the costs of any goods or services involved? No

To what degree?: N/A

Is the increase in cost more harmful to the public than the harm that might result from the absence of the proposed rule? NA

Are all facets of the rule-making process designed solely for the purpose of, and so they have, as their primary effect, the protection of the public? Yes

Does the proposed action relate to or affect in any manner any litigation which the agency is a party to concerning the subject matter of the proposed rule? No

Does the proposed rule have an economic impact? No

If the proposed rule has an economic impact, the proposed rule is required to be accompanied by a fiscal note prepared in accordance with subsection (f) of Section 41-22-23, Code of Alabama 1975.

Certification of Authorized Official

I certify that the attached proposed rule has been proposed in full compliance with the requirements of Chapter 22, Title 41, Code of Alabama 1975, and that it conforms to all applicable filing requirements of the Administrative Procedure Division of the Legislative Services Agency.

Signature of certifying officer

Reyn Norman
Reyn Norman

REC'D & FILED

APR 18, 2024

Date

Thursday, April 18, 2024

LEGISLATIVE SVC AGENCY

ALABAMA DEPARTMENT OF INSURANCE

NOTICE OF INTENDED ACTION

AGENCY NAME: Alabama Department of Insurance

RULE NO. & TITLE: Chapter 482-1-120 Valuation of Life Insurance Policies (Including the Introduction and Use of New Select Mortality Factors)

INTENDED ACTION: Amend

SUBSTANCE OF PROPOSED ACTION:

The Alabama Department of Insurance is exempt from the Alabama Administrative Procedures Act pursuant to Section 41-22-2(e), Code of Alabama 1975. The Commissioner proposes citation updates to align with current state statutes.

TIME, PLACE AND MANNER OF PRESENTING VIEWS:

Interested persons may submit data, views, or arguments in writing at any time prior to 3:00 PM on June 6, 2024, to the Alabama Department of Insurance, Attention: Legal Division, Post Office Box 303351, Montgomery, Alabama 36130-3351, or orally by appearing at the public hearing, Suite 502, RSA Tower, 201 Monroe Street, Montgomery, Alabama, beginning at 10:00 AM, on June 11, 2024.

FINAL DATE FOR COMMENT AND COMPLETION OF NOTICE:

Tuesday, June 11, 2024

CONTACT PERSON AT AGENCY:

Erin Dunagan
Associate Counsel

Reyn Norman

Reyn Norman

(Signature of officer authorized
to promulgate and adopt
rules or his or her deputy)

ALABAMA DEPARTMENT OF INSURANCE
ADMINISTRATIVE CODE

CHAPTER 482-1-120
VALUATION OF LIFE INSURANCE POLICIES (INCLUDING THE INTRODUCTION
AND USE OF NEW SELECT MORTALITY FACTORS)

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482-1-120-.01	<u>Purpose.</u>

(1) The purpose of this chapter is to provide all of the following:

- (a) Tables of select mortality factors and rules for their use.
- (b) Rules concerning a minimum standard for the valuation of plans with nonlevel premiums or benefits.
- (c) Rules concerning a minimum standard for the valuation of plans with secondary guarantees.

(2) The method for calculating basic reserves defined in this chapter will constitute the Commissioners' Reserve Valuation Method for policies to which this chapter is applicable.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published _____ ; effective _____.

482-1-120-.02 Authority And Short Title.

This chapter is adopted pursuant to Section 27-2-17, Code of Ala. 1975. This chapter shall be known and may be cited as the Alabama Valuation of Life Insurance Policies Regulation.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published _____ ; effective _____.

482-1-120-.03 Applicability.

(1) This chapter shall apply to all life insurance policies, with or without nonforfeiture values, issued on or after the effective date of this chapter, subject to the following exceptions and conditions.

(2) Exceptions:

(a) This chapter shall not apply to any individual life insurance policy issued on or after the effective date of this chapter if the policy is issued in accordance with and as a result of the exercise of a reentry provision contained in the original life insurance policy of the same or greater face amount, issued before the effective date of this chapter, that guarantees the premium rates of the new policy. This chapter also shall not apply to subsequent policies issued as a result of the exercise of such a provision, or a derivation of the provision, in the new policy.

(b) This chapter shall not apply to any universal life policy that meets all the following requirements:

1. Secondary guarantee period, if any, is five (5) years or less.
2. Specified premium for the secondary guarantee period is not less than the net level reserve premium for the secondary guarantee period based on the CSO valuation tables as defined in Rule 482-1-120-.04 and the applicable valuation interest rate.
3. The initial surrender charge is not less than 100 percent of the first year annualized specified premium for the secondary guarantee period.

(c) This chapter shall not apply to any variable life insurance policy that provides for life insurance, the amount or duration of which varies according to the investment experience of any separate account or accounts.

(d) This chapter shall not apply to any variable universal life insurance policy that provides for life insurance, the amount or duration of which varies according to the investment experience of any separate account or accounts.

(e) This chapter shall not apply to a group life insurance certificate unless the certificate provides for a stated or implied schedule of maximum gross premiums required in order to continue coverage in force for a period in excess of one year.

(3) Conditions.

(a) Calculation of the minimum valuation standard for policies with guaranteed nonlevel gross premiums or guaranteed nonlevel benefits (other than universal life policies), or both, shall be in accordance with the provisions of Rule 482-1-120-.06.

(b) Calculation of the minimum valuation standard for flexible premium and fixed premium universal life insurance policies, that contain provisions resulting in the ability of a policyholder to keep a policy in force over a secondary guarantee period shall be in accordance with the provisions of Rule 482-1-120-.07.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published ; effective

482-1-120-.04 Definitions.

The following definitions shall apply for purposes of this Chapter:

(a) Basic reserves. Reserves calculated in accordance with ~~Subsection (e) of Section 27-36-7~~Section 27-36A-8, Code of Ala. 1975.

(b) Contract segmentation method. The method of dividing the period from issue to mandatory expiration of a policy into successive segments, with the length of each segment being defined as the period from the end of the prior segment (from policy inception, for the first segment) to the end of the latest policy year as determined below. All calculations are made using the 1980 CSO valuation tables, as defined in Subparagraph (f) of this rule, (or any other valuation mortality table adopted by the National Association of Insurance Commissioners (NAIC) after the effective date of this chapter and promulgated by regulation of the Commissioner for this purpose), and, if elected, the optional minimum mortality standard for deficiency reserves stipulated in Paragraph (2) of Rule 482-1-120-.05.

The length of a particular contract segment shall be set equal to the minimum of the value t for which G_t is greater than R_t (if G_t never exceeds R_t the segment length is deemed to be the number of years from the beginning of the segment to the mandatory expiration date of the policy), where G_t and R_t are defined as follows:

$$G_t = \frac{GP_{x+k+t}}{GP_{x+k+t-1}}$$

where:

x = original issue age;

k = the number of years from the date of issue to the beginning of the segment;

$t = 1, 2, \dots$; t is reset to 1 at the beginning of each segment;

$GP_{x+k+t-1}$ = Guaranteed gross premium per thousand of face amount for year t of the segment, ignoring policy fees only if level for the premium paying period of the policy.

$R_t = \frac{q_{x+k+t}}{q_{x+k+t-1}}$, However, R_t may be increased or decreased by one percent in any policy year, at the company's option, but R_t shall not be less than one;

where:

x , k and t are as defined above, and

$q_{x+k+t-1}$ = valuation mortality rate for deficiency reserves in policy year $k+t$ but using the mortality of Subparagraph (b) of Paragraph (2) of Rule 482-1-120-.05 if Subparagraph (c) of Paragraph (2) of Rule 482-1-120-.05 is elected for deficiency reserves.

However, if GP_{x+k+t} is greater than 0 and $GP_{x+k+t-1}$ is equal to 0, G_t shall be deemed to be 1000. If GP_{x+k+t} and $GP_{x+k+t-1}$ are both equal to 0, G_t shall be deemed to be 0.

(c) Deficiency reserves. The excess, if greater than zero, of

1. Minimum reserves calculated in accordance with ~~Subsection (i) of Section 27-36-7~~ Section 27-36A-12, Code of Ala. 1975, over

2. Basic reserves.

(d) Guaranteed gross premiums. The premiums under a policy of life insurance that are guaranteed and determined at issue.

(e) Maximum valuation interest rates. The interest rates defined in ~~Subdivision (3) of Subsection (d) of Section 27-36~~ Section 27-36A-7, Code of Ala. 1975 (Computation of Minimum Standard by Calendar Year of Issue), that are to be used in determining the minimum standard for the valuation of life insurance policies.

(f) 1980 CSO valuation tables. The Commissioners' 1980 Standard Ordinary Mortality Table (1980 CSO Table) without ten-year selection factors, incorporated into the 1980

amendments to the NAIC Standard Valuation Law, and variations of the 1980 CSO Table approved by the NAIC, such as the smoker and nonsmoker versions approved in December 1983.

(g) Scheduled gross premium. The smallest illustrated gross premium at issue for other than universal life insurance policies. For universal life insurance policies, scheduled gross premium means the smallest specified premium described in Subparagraph (c) of Paragraph (1) of Rule 482-1-120-.07, if any, or else the minimum premium described in Subparagraph (d) of Paragraph (1) of Rule 482-1-120-.07.

(h)1. Segmented reserves. Reserves, calculated using segments produced by the contract segmentation method, equal to the present value of all future guaranteed benefits less the present value of all future net premiums to the mandatory expiration of a policy, where the net premiums within each segment are a uniform percentage of the respective guaranteed gross premiums within the segment. The uniform percentage for each segment is such that, at the beginning of the segment, the present value of the net premiums within the segment equals:

(i) The present value of the death benefits within the segment, plus

(ii) The present value of any unusual guaranteed cash value (see Paragraph (4) of Rule 482-1-120-.06) occurring at the end of the segment, less

(iii) Any unusual guaranteed cash value occurring at the start of the segment, plus

(iv) For the first segment only, the excess of the Subparagraph (I) over Subparagraph (II), as follows:

(I) A net level annual premium equal to the present value, at the date of issue, of the benefits provided for in the first segment after the first policy year, divided by the present value, at the date of issue, of an annuity of one per year payable on the first and each subsequent anniversary within the first segment on which a premium falls due. However, the net level annual premium shall not exceed the net level annual premium on the nineteen-year premium whole life plan of insurance of the same renewal year equivalent level amount at an age one year higher than the age at issue of the policy.

(II) A net one year term premium for the benefits provided for in the first policy year.

2. The length of each segment is determined by the "contract segmentation method," as defined in this rule.

3. The interest rates used in the present value calculations for any policy may not exceed the maximum valuation interest rate, determined with a guarantee duration equal to the sum of the lengths of all segments of the policy.

4. For both basic reserves and deficiency reserves computed by the segmented method, present values shall include future benefits and net premiums in the current segment and in all subsequent segments.

(i) Tabular cost of insurance. The net single premium at the beginning of a policy year for one-year term insurance in the amount of the guaranteed death benefit in that policy year.

(j) Ten-year select factors. The select factors adopted with the 1980 amendments to the NAIC Standard Valuation Law.

(k)1. Unitary reserves. The present value of all future guaranteed benefits less the present value of all future modified net premiums, where both of the following are true:

(i) Guaranteed benefits and modified net premiums are considered to the mandatory expiration of the policy.

(ii) Modified net premiums are a uniform percentage of the respective guaranteed gross premiums, where the uniform percentage is such that, at issue, the present value of the net premiums equals the present value of all death benefits and pure endowments, plus the excess of Subparagraph (I) over Subparagraph (II), as follows:

(I) A net level annual premium equal to the present value, at the date of issue, of the benefits provided for after the first policy year, divided by the present value, at the date of issue, of an annuity of one per year payable on the first and each subsequent anniversary of the policy on which a premium falls due. However, the net level annual premium shall not exceed the net level annual premium on the nineteen-year premium whole life plan of

insurance of the same renewal year equivalent level amount at an age one year higher than the age at issue of the policy.

(II) A net one year term premium for the benefits provided for in the first policy year.

2. The interest rates used in the present value calculations for any policy may not exceed the maximum valuation interest rate, determined with a guarantee duration equal to the length from issue to the mandatory expiration of the policy.

(1) Universal life insurance policy. Any individual life insurance policy under the provisions of which separately identified interest credits (other than in connection with dividend accumulations, premium deposit funds, or other supplementary accounts) and mortality or expense charges are made to the policy.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. Amended: Published ; effective

482-1-120-.05

General Calculation Requirements For Basic Reserves And Premium Deficiency Reserves.

(1) At the election of the company for any one or more specified plans of life insurance, the minimum mortality standard for basic reserves may be calculated using the 1980 CSO valuation tables with select mortality factors (or any other valuation mortality table adopted by the NAIC after the effective date of this chapter and promulgated by regulation of the Commissioner for this purpose). If select mortality factors are elected, they may be any of the following:

(a) The ten-year select mortality factors incorporated into the 1980 amendments to the NAIC Standard Valuation Law.

(b) The select mortality factors in the Appendix.

(c) Any other table of select mortality factors adopted by the NAIC after the effective date of this chapter and

promulgated by regulation of the Commissioner for the purpose of calculating basic reserves.

(2) Deficiency reserves, if any, are calculated for each policy as the excess, if greater than zero, of the quantity A over the basic reserve. The quantity A is obtained by recalculating the basic reserve for the policy using guaranteed gross premiums instead of net premiums when the guaranteed gross premiums are less than the corresponding net premiums. At the election of the company for any one or more specified plans of insurance, the quantity A and the corresponding net premiums used in the determination of quantity A may be based upon the 1980 CSO valuation tables with select mortality factors (or any other valuation mortality table adopted by the NAIC after the effective date of this chapter and promulgated by regulation of the Commissioner). If select mortality factors are elected, they may be any of the following:

(a) The ten-year select mortality factors incorporated into the 1980 amendments to the NAIC Standard Valuation Law.

(b) The select mortality factors in the Appendix of this chapter.

(c) For durations in the first segment, X percent of the select mortality factors in the Appendix, subject to all of the following:

1. X may vary by policy year, policy form, underwriting classification, issue age, or any other policy factor expected to affect mortality experience.

2. X is such that, when using the valuation interest rate used for basic reserves, Subparagraph (i) is greater than or equal to Subparagraph (ii):

(i) The actuarial present value of future death benefits, calculated using the mortality rates resulting from the application of X.

(ii) The actuarial present value of future death benefits calculated using anticipated mortality experience without recognition of mortality improvement beyond the valuation date.

3. X is such that the mortality rates resulting from the application of X are at least as great as the anticipated mortality experience, without recognition of mortality improvement beyond the valuation date, in each of the first five (5) years after the valuation date.

4. The appointed actuary shall increase X at any valuation date where it is necessary to continue to meet all the requirements of this Subparagraph (c).

5. The appointed actuary may decrease X at any valuation date as long as X continues to meet all the requirements of this Subparagraph (c).

6. The appointed actuary shall specifically take into account the adverse effect on expected mortality and lapsation of any anticipated or actual increase in gross premiums.

7. If X is less than 100 percent at any duration for any policy, both of the following requirements shall be met:

(i) The appointed actuary shall annually prepare an actuarial opinion and memorandum for the company in conformance with the requirements of Rule 482-1-112-.06.

(ii) The appointed actuary shall disclose, in the Regulatory Asset Adequacy Issues Summary, the impact of the insufficiency of assets to support the payment of benefits and expenses and the establishment of statutory reserves during one or more interim periods; and

(iii) The appointed actuary shall annually opine for all policies subject to this chapter as to whether the mortality rates resulting from the application of X meet the requirements of this Subparagraph (c). This opinion shall be supported by an actuarial report, subject to appropriate Actuarial Standards of Practice promulgated by the Actuarial Standards Board of the American Academy of Actuaries. The X factors shall reflect anticipated future mortality, without recognition of mortality improvement beyond the valuation date, taking into account relevant emerging experience.

(d) Any other table of select mortality factors adopted by the NAIC after the effective date of this chapter and promulgated by regulation of the Commissioner for the purpose of calculating deficiency reserves.

(3) This Paragraph (3) applies to both basic reserves and deficiency reserves. Any set of select mortality factors may be used only for the first segment. However, if the first segment is less than ten (10) years, the appropriate ten-year select

mortality factors incorporated into the 1980 amendments to the NAIC Standard Valuation Law may be used thereafter through the tenth policy year from the date of issue.

(4) In determining basic reserves or deficiency reserves, guaranteed gross premiums without policy fees may be used where the calculation involves the guaranteed gross premium but only if the policy fee is a level dollar amount after the first policy year. In determining deficiency reserves, policy fees may be included in guaranteed gross premiums, even if not included in the actual calculation of basic reserves.

(5) Reserves for policies that have changes to guaranteed gross premiums, guaranteed benefits, guaranteed charges, or guaranteed credits that are unilaterally made by the insurer after issue and that are effective for more than one year after the date of the change shall be the greatest of the following:

- (a) reserves calculated ignoring the guarantee,
- (b) reserves assuming the guarantee was made at issue, and
- (c) reserves assuming that the policy was issued on the date of the guarantee.

(6) The Commissioner may require that the company document the extent of the adequacy of reserves for specified blocks, including but not limited to policies issued prior to the effective date of this chapter. This documentation may include a demonstration of the extent to which aggregation with other non-specified blocks of business is relied upon in the formation of the appointed actuary opinion pursuant to and consistent with the requirements of Rule 482-1-112-.06.

Author: Commissioner of Insurance

Statutory Authority: Code of Ala. 1975, §§27-2-17, and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** November 25, 2003; effective January 1, 2004. Filed with LRS November 25, 2003. Rule is not subject to the Alabama Administrative Procedure Act. **Amended:** May 12, 2010; effective June 1, 2010. Filed with LRS May 12, 2010. Rule is not subject to the Alabama Administrative Procedure Act. **Amended:** Published ; effective .

482-1-120-.06

Calculation Of Minimum Valuation Standard For
Policies With Guaranteed Nonlevel Gross
Premiums Or Guaranteed Nonlevel Benefits
(Other Than Universal Life Policies).

(1) Basic Reserves. Basic reserves shall be calculated as the greater of the segmented reserves and the unitary reserves. Both the segmented reserves and the unitary reserves for any policy shall use the same valuation mortality table and selection factors. At the option of the insurer, in calculating segmented reserves and net premiums, either of the adjustments described in Subparagraphs (a) or (b) below may be made:

(a) Treat the unitary reserve, if greater than zero, applicable at the end of each segment as a pure endowment and subtract the unitary reserve, if greater than zero, applicable at the beginning of each segment from the present value of guaranteed life insurance and endowment benefits for each segment.

(b) Treat the guaranteed cash surrender value, if greater than zero, applicable at the end of each segment as a pure endowment; and subtract the guaranteed cash surrender value, if greater than zero, applicable at the beginning of each segment from the present value of guaranteed life insurance and endowment benefits for each segment.

(2) Deficiency Reserves.

(a) The deficiency reserve at any duration shall be calculated by any of the following:

1. On a unitary basis if the corresponding basic reserve determined by Paragraph (1) is unitary.

2. On a segmented basis if the corresponding basic reserve determined by Paragraph (1) is segmented.

~~2~~3. On the segmented basis if the corresponding basic reserve determined by Paragraph (1) is equal to both the segmented reserve and the unitary reserve.

(b) This Paragraph (2) shall apply to any policy for which the guaranteed gross premium at any duration is less than the corresponding modified net premium calculated by the method used in determining the basic reserves, but using the minimum

valuation standards of mortality (specified in Paragraph (2) of Rule 482-1-120-.05) and rate of interest.

(c) Deficiency reserves, if any, shall be calculated for each policy as the excess if greater than zero, for the current and all remaining periods, of the quantity A over the basic reserve, where A is obtained as indicated in Paragraph (2) of Rule 482-1-120-.05.

(d) For deficiency reserves determined on a segmented basis, the quantity A is determined using segment lengths equal to those determined for segmented basic reserves.

(3) Minimum Value. Basic reserves may not be less than the tabular cost of insurance for the balance of the policy year, if mean reserves are used. Basic reserves may not be less than the tabular cost of insurance for the balance of the current modal period or to the paid-to-date, if later, but not beyond the next policy anniversary, if mid-terminal reserves are used. The tabular cost of insurance shall use the same valuation mortality table and interest rates as that used for the calculation of the segmented reserves. However, if select mortality factors are used, they shall be the ten-year select factors incorporated into the 1980 amendments of the NAIC Standard Valuation Law. In no case may total reserves (including basic reserves, deficiency reserves and any reserves held for supplemental benefits that would expire upon contract termination) be less than the amount that the policyowner would receive (including the cash surrender value of the supplemental benefits, if any, referred to above), exclusive of any deduction for policy loans, upon termination of the policy.

(4) Unusual Pattern of Guaranteed Cash Surrender Values.

(a) For any policy with an unusual pattern of guaranteed cash surrender values, the reserves actually held prior to the first unusual guaranteed cash surrender value shall not be less than the reserves calculated by treating the first unusual guaranteed cash surrender value as a pure endowment and treating the policy as an n year policy providing term insurance plus a pure endowment equal to the unusual cash surrender value, where n is the number of years from the date of issue to the date the unusual cash surrender value is scheduled.

(b) The reserves actually held subsequent to any unusual guaranteed cash surrender value shall not be less than the reserves calculated by treating the policy as an n year policy providing term insurance plus a pure endowment equal to the next unusual guaranteed cash surrender value, and

treating any unusual guaranteed cash surrender value at the end of the prior segment as a net single premium, where each of the following is true:

1. n is the number of years from the date of the last unusual guaranteed cash surrender value prior to the valuation date to the earlier of the following:

(i) The date of the next unusual guaranteed cash surrender value, if any, that is scheduled after the valuation date.

(ii) The mandatory expiration date of the policy.

2. The net premium for a given year during the n year period is equal to the product of the net to gross ratio and the respective gross premium.

3. The net to gross ratio is equal to Subparagraph (i) divided by Subparagraph (ii) as follows:

(i) The present value, at the beginning of the n year period, of death benefits payable during the n year period plus the present value, at the beginning of the n year period, of the next unusual guaranteed cash surrender value, if any, minus the amount of the last unusual guaranteed cash surrender value, if any, scheduled at the beginning of the n year period.

(ii) The present value, at the beginning of the n year period, of the scheduled gross premiums payable during the n year period.

(c) For purposes of this Paragraph (4), a policy is considered to have an unusual pattern of guaranteed cash surrender values if any future guaranteed cash surrender value exceeds the prior year's guaranteed cash surrender value by more than the sum of the following:

1. One hundred ten percent (110%) of the scheduled gross premium for that year.

2. One hundred ten percent (110%) of one year's accrued interest on the sum of the prior year's guaranteed cash surrender value and the scheduled gross premium using the nonforfeiture interest rate used for calculating policy guaranteed cash surrender values.

3. Five percent (5%) of the first policy year surrender charge, if any.

(5) Optional Exemption for Yearly Renewable Term Reinsurance. At the option of the company, the following approach for reserves on YRT reinsurance may be used:

(a) Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year.

(b) Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in Paragraph (3).

(c) Deficiency reserves.

1. For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.

2. Deficiency reserves shall never be less than the sum of the present values, at the date of valuation, of the excesses determined in accordance with Subparagraph 2. above.

(d) For purposes of this Paragraph (5), the calculations use the maximum valuation interest rate and the 1980 CSO mortality tables with or without ten-year select mortality factors, or any other table adopted after the effective date of this chapter by the NAIC and promulgated by regulation of the Commissioner for this purpose.

(e) A reinsurance agreement shall be considered YRT reinsurance for purposes of this Paragraph (5) if only the mortality risk is reinsured.

(f) If the assuming company chooses this optional exemption, the ceding company's reinsurance reserve credit shall be limited to the amount of reserve held by the assuming company for the affected policies.

(6) Optional Exemption for Attained-Age-Based Yearly Renewable Term Life Insurance Policies. At the option of the company, the following approach for reserves for attained-age-based YRT life insurance policies may be used:

(a) Calculate the valuation net premium for each future policy year as the tabular cost of insurance for that future year.

(b) Basic reserves shall never be less than the tabular cost of insurance for the appropriate period, as defined in Paragraph (3) of Rule 482-1-120-.06.

(c) Deficiency reserves.

1. For each policy year, calculate the excess, if greater than zero, of the valuation net premium over the respective maximum guaranteed gross premium.

2. Deficiency reserves shall never be less than the sum of the present values, at the date of valuation, of the excesses determined in accordance with Subparagraph 1. above.

(d) For purposes of this Paragraph (6), the calculations use the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten-year select mortality factors, or any other table adopted after the effective date of this chapter by the NAIC and promulgated by regulation of the Commissioner for this purpose.

(e) A policy shall be considered an attained-age-based YRT life insurance policy for purposes of this Paragraph (6) if both of the following are true:

1. The premium rates (on both the initial current premium scale and the guaranteed maximum premium scale) are based upon the attained age of the insured such that the rate for any given policy at a given attained age of the insured is independent of the year the policy was issued.

2. The premium rates (on both the initial current premium scale and the guaranteed maximum premium scale) are the same as the premium rates for policies covering all insureds of the same sex, risk class, plan of insurance and attained age.

(f) For policies that become attained-age-based YRT policies after an initial period of coverage, the approach of this Paragraph (6) may be used after the initial period if both of the following are true:

1. The initial period is either of the following:

(i) Constant for all insureds of the same sex, risk class and plan of insurance.

(ii) Runs to a common attained age for all insureds of the same sex, risk class and plan of insurance.

2. After the initial period of coverage, the policy meets the conditions of Subparagraph (e) above.

(g) If this election is made, this approach shall be applied in determining reserves for all attained-age-based YRT life insurance policies issued on or after the effective date of this chapter.

(7) Exemption from Unitary Reserves for Certain n-Year Renewable Term Life Insurance Policies. Unitary basic reserves and unitary deficiency reserves need not be calculated for a policy if all of the following conditions are met:

(a) The policy consists of a series of n-year periods, including the first period and all renewal periods, where n is the same for each period, except that for the final renewal period, n may be truncated or extended to reach the expiry age, provided that this final renewal period is less than 10 years and less than twice the size of the earlier n-year periods, and for each period, the premium rates on both the initial current premium scale and the guaranteed maximum premium scale are level.

(b) The guaranteed gross premiums in all n-year periods are not less than the corresponding net premiums based upon the 1980 CSO Table with or without the ten-year select mortality factors.

(c) There are no cash surrender values in any policy year.

(8) Exemption from Unitary Reserves for Certain Juvenile Policies. Unitary basic reserves and unitary deficiency reserves need not be calculated for a policy if all of the following conditions are met, based upon the initial current premium scale at issue:

(a) At issue, the insured is age twenty-four (24) or younger.

(b) Until the insured reaches the end of the juvenile period, which shall occur at or before age twenty-five (25), the gross premiums and death benefits are level, and there are no cash surrender values.

(c) After the end of the juvenile period, gross premiums are level for the remainder of the premium paying period, and death benefits are level for the remainder of the life of the policy.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17, and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. Amended: Published ; effective

482-1-120-.07

Calculation Of Minimum Valuation Standard For Flexible Premium And Fixed Premium Universal Life Insurance Policies That Contain Provisions Resulting In The Ability Of A Policyowner To Keep A Policy In Force Over A Secondary Guarantee Period.

(1) General.

(a) Policies with a secondary guarantee include any of the following:

1. A policy with a guarantee that the policy will remain in force at the original schedule of benefits, subject only to the payment of specified premiums.

2. A policy in which the minimum premium at any duration is less than the corresponding one year valuation premium, calculated using the maximum valuation interest rate and the 1980 CSO valuation tables with or without ten-year select mortality factors, or any other table adopted after the effective date of this chapter by the NAIC and promulgated by regulation of the Commissioner for this purpose.

3. A policy with any combination of Subparagraph 1. and 2. above.

(b) A secondary guarantee period is the period for which the policy is guaranteed to remain in force subject only to a secondary guarantee. When a policy contains more than one secondary guarantee, the minimum reserve shall be the greatest of the respective minimum reserves at that valuation date of each unexpired secondary guarantee, ignoring all other secondary guarantees. Secondary guarantees that are unilaterally changed by the insurer after issue shall be considered to have been made at issue. Reserves described in Paragraphs (2) and (3) below shall be recalculated from issue to reflect these changes.

(c) Specified premiums mean the premiums specified in the policy, the payment of which guarantees that the policy will

remain in force at the original schedule of benefits, but which otherwise would be insufficient to keep the policy in force in the absence of the guarantee if maximum mortality and expense charges and minimum interest credits were made and any applicable surrender charges were assessed.

(d) For purposes of this rule, the minimum premium for any policy year is the premium that, when paid into a policy with a zero account value at the beginning of the policy year, produces a zero account value at the end of the policy year. The minimum premium calculation shall use the policy cost factors (including mortality charges, loads and expense charges) and the interest crediting rate, which are all guaranteed at issue.

(e) The one-year valuation premium means the net one-year premium based upon the original schedule of benefits for a given policy year. The one-year valuation premiums for all policy years are calculated at issue. The select mortality factors defined in Subparagraphs (b), (c) and (d) of Paragraph (2) of Rule 482-1-120-.05 may not be used to calculate the one-year valuation premiums.

(f) The one-year valuation premium should reflect the frequency of fund processing, as well as the distribution of deaths assumption employed in the calculation of the monthly mortality charges to the fund.

(2) Basic Reserves for the Secondary Guarantees. Basic reserves for the secondary guarantees shall be the segmented reserves for the secondary guarantee period. In calculating the segments and the segmented reserves, the gross premiums shall be set equal to the specified premiums, if any, or otherwise to the minimum premiums, that keep the policy in force and the segments will be determined according to the contract segmentation method as defined in Subparagraph (b) of Rule 482-1-120-.04.

(3) Deficiency Reserves for the Secondary Guarantees. Deficiency reserves, if any, for the secondary guarantees shall be calculated for the secondary guarantee period in the same manner as described in Paragraph (2) of Rule 482-1-120-.06 with gross premiums set equal to the specified premiums, if any, or otherwise to the minimum premiums that keep the policy in force.

(4) Minimum Reserves. The minimum reserves during the secondary guarantee period are the greater of either of the following:

(a) The basic reserves for the secondary guarantee plus the deficiency reserve, if any, for the secondary guarantees.

(b) The minimum reserves required by other rules or regulations governing universal life plans.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published _____ ; effective _____.

482-1-120-.08 Separability.

If any provision of this chapter or the application thereof to any person or circumstance is for any reason held to be invalid, the remainder of the chapter and the application of its provisions to other persons or circumstances shall not be affected thereby.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A-20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published _____ ; effective _____.

482-1-120-.09 Effective Date.

This chapter shall be effective on March 1, 2000, upon its approval by the Commissioner of Insurance, and upon its having been on file as a public document in the office of the Secretary of State for ten days.

Author: Reyn Norman, Associate Counsel

Statutory Authority: Code of Ala. 1975, §§27-2-17~~7~~ and 27-36A-1 to 27-36A -20.

History: New Rule: February 18, 2000; effective March 1, 2000. Filed for codification in the Alabama Administrative Code by the Department of Insurance on January 17, 2003, pursuant to the Code of Ala. 1975, §27-7-43. **Amended:** Published _____ ; effective _____.

ALABAMA DEPARTMENT OF INSURANCE
ADMINISTRATIVE CODE

Appendix
SELECT MORTALITY FACTORS

SELECT MORTALITY FACTORS

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This appendix contains tables of select mortality factors that are the bases to which the respective percentage of Subparagraphs (1) (a), (2) (b), and (2) (c) of Rule 482-1-120-.05 are applied.

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The six tables of select mortality factors contained herein include: (1) male aggregate, (2) male nonsmoker, (3) male smoker, (4) female aggregate, (5) female nonsmoker, and (6) female smoker.

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These tables apply to both age last birthday and age nearest birthday mortality tables.

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For sex-blended mortality tables, compute select mortality factors in the same proportion as the underlying mortality. For example, for the 1980 CSO-B Table, the calculated select mortality factors are eighty percent (80%) of the appropriate male table in this Appendix, plus twenty percent (20%) of the appropriate female table in this Appendix.

Author: Commissioner of Insurance

Statutory Authority: Code of Ala. 1975, §§27-2-17, and 27-36A-1 to 27-36A-20.

History: New: February 18, 2000; effective March 1, 2000.

Amended: November 25, 2003; effective December 5, 2003. Filed with LRS November 25, 2003. Amended: April 30, 2024; effective July 1, 2024. Rule is not subject to the Alabama Administrative Procedure Act.

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SELECT MORTALITY FACTORS

Issue	Male, Aggregate																			
	Duration																			
Age	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	96	98	98	99	99	100	100	90	92	92	92	92	93	93	96	97	98	98	99	100
19	83	84	84	87	87	87	79	79	79	81	81	82	82	82	85	88	91	94	97	100
20	69	71	71	74	74	69	69	67	69	70	71	71	71	71	74	79	84	90	95	100
21	66	68	69	71	66	66	67	66	67	70	70	70	70	71	71	77	83	88	94	100
22	65	66	66	63	63	64	64	64	65	68	68	68	68	69	71	77	83	88	94	100
23	62	63	59	60	62	62	63	63	64	65	65	67	67	69	70	76	82	88	94	100
24	60	56	56	59	59	60	61	61	61	64	64	64	66	67	70	76	82	88	94	100
25	52	53	55	56	58	58	60	60	60	63	62	63	64	67	69	75	81	88	94	100
26	51	52	55	56	58	58	57	61	61	62	63	64	66	69	66	73	80	86	93	100
27	51	52	55	57	58	60	61	61	60	63	63	64	67	66	67	74	80	87	93	100
28	49	51	56	58	60	60	61	62	62	63	64	66	65	66	68	74	81	87	94	100
29	49	51	56	58	60	61	62	62	62	64	64	62	66	67	70	76	82	88	94	100
30	49	50	56	58	60	60	62	63	63	64	62	63	67	68	71	77	83	88	94	100
31	47	50	56	58	60	62	63	64	64	62	63	66	68	70	72	78	83	89	94	100
32	46	49	56	59	60	62	63	66	62	63	66	67	70	72	73	78	84	89	95	100
33	43	49	56	59	62	63	64	62	65	66	67	70	72	73	75	80	85	90	95	100
34	42	47	56	60	62	63	61	63	66	67	70	71	73	75	76	81	86	90	95	100
35	40	47	56	60	63	61	62	65	67	68	71	73	74	76	76	81	86	90	95	100
36	38	42	56	60	59	61	63	65	67	68	70	72	74	76	77	82	86	91	95	100
37	38	45	56	57	61	62	63	65	67	68	70	72	74	76	76	81	86	90	95	100
38	37	44	53	58	61	62	65	66	67	69	69	73	75	76	77	82	86	91	95	100
39	37	41	53	58	62	63	65	65	66	68	69	72	74	76	76	81	86	90	95	100
40	34	40	53	58	62	63	65	65	66	68	68	71	75	76	77	82	86	91	95	100

Male, Non-Smoker

Issue	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	93	95	96	98	99	100	100	90	92	92	92	92	95	95	96	97	98	98	99	100
19	80	81	83	86	87	87	79	79	79	81	81	82	83	83	86	89	92	94	97	100
20	65	68	69	72	74	69	69	67	69	70	71	71	72	72	75	80	85	90	95	100
21	63	66	68	71	66	66	67	66	67	70	70	70	71	71	73	78	84	89	95	100
22	62	65	66	62	63	64	64	64	67	68	68	68	70	70	73	78	84	89	95	100
23	60	62	58	60	62	62	63	63	64	67	68	68	67	69	71	77	83	88	94	100
24	59	55	56	58	59	60	61	61	63	65	67	66	66	69	71	77	83	88	94	100
25	52	53	55	56	58	58	60	60	61	64	64	64	64	67	70	76	82	88	94	100
26	51	53	55	56	58	60	61	61	61	63	64	64	66	69	67	74	80	87	93	100
27	51	52	55	58	60	60	61	61	62	63	64	66	67	66	67	74	80	87	93	100
28	49	52	57	58	60	61	63	62	62	64	66	66	63	66	68	74	81	87	94	100
29	49	51	57	60	61	61	62	62	63	64	66	63	65	67	68	74	81	87	94	100
30	49	51	57	60	61	62	63	63	63	64	62	63	66	68	70	76	82	88	94	100
31	47	50	57	60	60	62	63	64	64	62	63	65	67	70	71	77	83	88	94	100
32	46	50	57	60	62	63	64	64	62	63	65	66	68	71	72	78	83	89	94	100
33	45	49	56	60	62	63	64	62	63	65	66	68	71	73	74	79	84	90	95	100
34	43	48	56	62	63	64	62	62	65	66	67	70	72	74	74	79	84	90	95	100
35	41	47	56	62	63	61	62	63	66	67	68	70	72	74	75	80	85	90	95	100
36	40	47	56	62	59	61	62	63	66	67	68	70	72	74	75	80	85	90	95	100
37	38	45	56	58	59	61	62	63	66	67	67	69	71	73	74	79	84	90	95	100
38	38	45	53	58	61	62	63	65	65	67	68	70	72	74	73	78	84	89	95	100
39	37	41	53	58	61	62	63	64	65	67	68	70	71	73	73	78	84	89	95	100
40	34	41	53	58	61	62	63	64	64	66	67	69	71	73	72	78	83	89	94	100

Male, Smoker

Issue	Duration																				
	Age	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
19	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20	98	100	100	100	100	100	100	100	99	99	99	100	99	99	99	100	100	100	100	100	100
21	95	98	99	100	95	96	96	95	96	97	97	96	96	96	96	96	97	98	98	99	100
22	92	95	96	90	90	93	93	92	93	95	95	93	93	92	93	94	96	97	99	99	100
23	90	92	85	88	88	89	89	89	90	90	90	90	89	90	92	94	95	97	98	100	100
24	87	81	82	85	84	86	88	86	86	88	88	86	86	88	89	91	93	96	98	100	100
25	77	78	79	82	81	83	83	82	83	85	84	84	84	85	86	89	92	94	97	100	100
26	75	77	79	82	82	83	83	82	83	84	84	84	84	85	81	85	89	92	96	100	100
27	73	75	78	82	82	83	83	82	82	82	82	84	84	80	81	85	89	92	96	100	100
28	71	73	79	82	81	82	83	81	81	82	82	82	80	80	81	85	89	92	96	100	100
29	69	72	78	81	81	82	82	81	81	81	81	77	80	80	81	85	89	92	96	100	100
30	68	71	78	81	81	81	82	81	81	81	76	77	80	80	81	85	89	92	96	100	100
31	65	70	77	81	79	81	82	81	81	76	77	79	81	81	83	86	90	93	97	100	100
32	63	67	77	78	79	81	81	81	76	77	77	80	83	83	85	88	91	94	97	100	100
33	60	65	74	78	79	79	81	76	77	77	79	80	83	85	85	88	91	94	97	100	100
34	57	62	74	77	79	79	75	76	77	79	79	81	83	85	87	90	92	95	97	100	100
35	53	60	73	77	79	75	75	76	77	79	80	82	84	86	88	90	93	95	98	100	100
36	52	59	71	75	74	75	75	76	77	79	79	81	83	85	87	90	92	95	97	100	100
37	49	58	70	71	74	74	75	76	77	78	79	81	84	86	86	89	92	94	97	100	100
38	48	55	66	70	72	74	74	75	76	78	79	81	83	85	87	90	92	95	97	100	100
39	45	50	65	70	72	72	74	74	75	77	79	81	84	86	86	89	92	94	97	100	100
40	41	49	63	68	71	72	73	74	74	76	78	80	83	85	86	89	92	94	97	100	100

Female, Aggregate

Issue	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	99	100	100	100	100	100	100	100	93	95	96	97	97	100	100	100	100	100	100	100
18	83	83	84	84	84	84	86	78	78	79	82	84	85	88	88	90	93	95	98	100
19	65	66	68	68	68	68	63	63	64	66	69	71	72	74	75	80	85	90	95	100
20	48	50	51	51	51	47	48	48	49	51	56	57	58	61	63	70	78	85	93	100
21	47	48	50	51	47	47	48	49	51	53	57	60	61	64	64	71	78	86	93	100
22	44	47	48	45	47	47	48	49	53	54	60	61	63	64	66	73	80	86	93	100
23	42	45	44	45	47	47	49	51	53	54	61	64	64	67	69	75	81	88	94	100
24	39	40	42	44	47	47	50	51	54	56	64	64	66	69	70	76	82	88	94	100
25	34	38	41	44	47	47	50	53	56	57	64	67	69	71	73	78	84	89	95	100
26	34	38	41	45	49	49	51	56	58	59	66	69	70	73	70	76	82	88	94	100
27	34	38	41	47	50	51	54	57	59	60	69	70	73	70	71	77	83	88	94	100
28	34	37	43	47	53	53	56	59	62	63	70	73	70	72	74	79	84	90	95	100
29	34	38	43	49	54	56	58	60	63	64	73	70	72	74	75	80	85	90	95	100
30	35	38	43	50	56	56	59	63	66	67	70	71	74	75	76	81	86	90	95	100
31	35	38	43	51	56	58	60	64	67	65	71	72	74	75	76	81	86	90	95	100
32	35	39	45	51	56	59	63	66	65	66	72	72	75	76	76	81	86	90	95	100
33	36	39	44	52	58	62	64	65	66	67	72	74	75	76	76	81	86	90	95	100
34	36	40	45	52	58	63	63	66	67	68	74	74	76	76	76	81	86	90	95	100
35	36	40	45	53	59	61	65	67	68	70	75	74	75	76	75	80	85	90	95	100
36	36	40	45	53	55	62	65	67	68	70	74	74	74	75	75	80	85	90	95	100
37	36	41	47	52	57	62	65	67	68	69	72	72	73	75	74	79	84	90	95	100
38	34	41	44	52	57	63	66	68	69	70	72	71	72	74	75	80	85	90	95	100
39	34	40	45	53	58	63	66	68	69	69	70	70	70	73	74	79	84	90	95	100
40	32	40	45	53	58	65	65	67	68	69	70	69	70	73	73	78	84	89	95	100

Female, Non-Smoker

Issue	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	96	98	98	98	98	99	99	99	92	92	93	95	95	97	99	99	99	100	100	100
18	78	80	80	80	80	81	81	74	75	75	78	79	82	83	85	88	91	94	97	100
19	60	62	63	63	63	65	59	59	60	60	64	67	67	70	72	78	83	89	94	100
20	42	44	45	45	45	42	42	42	45	45	50	51	53	56	58	66	75	83	92	100
21	41	42	44	45	41	42	42	44	47	47	51	53	54	57	59	67	75	84	92	100
22	39	41	44	41	41	42	44	45	49	49	54	56	57	58	60	68	76	84	92	100
23	38	41	38	40	41	42	44	46	49	50	56	57	58	60	62	70	77	85	92	100
24	36	36	38	40	41	42	46	47	50	51	58	59	60	62	63	70	78	85	93	100
25	32	34	37	40	41	43	46	49	51	53	59	60	62	63	64	71	78	86	93	100
26	32	34	37	41	43	45	47	50	53	53	60	62	63	64	62	70	77	85	92	100
27	32	34	38	43	46	47	49	51	53	55	62	63	64	62	62	70	77	85	92	100
28	30	34	39	43	47	49	51	53	56	58	63	63	61	62	63	70	78	85	93	100
29	30	35	40	45	50	51	52	55	58	59	64	61	62	63	63	70	78	85	93	100
30	31	35	40	46	51	52	53	56	59	60	62	62	63	65	65	72	79	86	93	100
31	31	35	40	46	51	53	55	58	60	58	62	62	63	65	65	72	79	86	93	100
32	32	35	40	45	51	53	56	59	57	58	62	63	63	65	64	71	78	86	93	100
33	32	36	41	47	52	55	58	55	58	59	63	63	65	65	65	72	79	86	93	100
34	33	36	41	47	52	55	55	57	58	59	63	65	64	65	64	71	78	86	93	100
35	33	36	41	47	52	53	57	58	59	61	63	64	64	64	64	71	78	86	93	100
36	33	36	41	47	49	53	57	58	59	61	63	64	63	64	63	70	78	85	93	100
37	32	36	41	44	49	53	57	58	59	60	62	62	61	62	63	70	78	85	93	100
38	32	37	39	45	50	54	57	58	60	60	61	61	61	62	61	69	77	84	92	100
39	30	35	39	45	50	54	57	58	60	59	60	60	59	60	61	69	77	84	92	100
40	28	35	39	45	50	54	56	57	59	59	60	59	59	59	60	68	76	84	92	100

Female, Smoker

Issue	Duration																			
Age	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
0-15	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
16	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
17	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
18	99	100	100	100	100	100	100	95	96	97	100	100	100	100	100	100	100	100	100	100
19	87	89	92	92	92	92	84	84	86	86	92	93	95	96	99	99	99	100	100	100
20	74	77	80	80	80	73	73	73	75	77	83	83	86	88	90	92	94	96	98	100
21	71	74	78	78	71	71	73	74	77	79	85	86	88	89	90	92	94	96	98	100
22	68	71	75	70	71	71	73	74	78	79	88	90	89	89	92	94	95	97	98	100
23	65	69	67	70	70	70	73	77	79	81	89	90	90	92	92	94	95	97	98	100
24	62	60	64	69	70	70	74	77	79	81	92	90	92	93	93	94	96	97	99	100
25	53	58	63	67	69	70	74	78	81	82	92	93	93	95	95	96	97	98	99	100
26	53	58	63	69	71	72	75	79	82	82	93	93	95	96	90	92	94	96	98	100
27	52	56	63	70	74	74	78	81	82	84	93	95	95	90	90	92	94	96	98	100
28	52	56	64	71	75	77	79	82	85	86	95	95	90	92	92	94	95	97	98	100
29	51	56	64	71	78	78	81	84	86	88	95	90	90	92	92	94	95	97	98	100
30	51	56	64	72	79	79	82	85	88	89	90	90	92	93	93	94	96	97	99	100
31	51	56	64	72	78	81	84	84	88	84	90	90	92	93	93	94	96	97	99	100
32	51	56	64	71	78	81	85	86	84	85	90	90	92	94	93	94	96	97	99	100
33	51	57	62	71	78	82	85	83	84	85	90	92	93	93	93	94	96	97	99	100
34	51	56	62	71	78	82	81	83	85	86	90	92	92	94	93	94	96	97	99	100
35	51	56	62	71	78	79	83	84	85	86	90	91	91	93	93	94	96	97	99	100
36	49	56	62	71	74	79	83	84	85	86	90	90	91	93	92	94	95	97	98	100
37	48	55	62	67	74	79	83	84	85	86	89	90	89	92	91	93	95	96	98	100
38	47	55	57	66	72	77	81	84	86	86	87	88	88	90	91	93	95	96	98	100
39	45	50	57	66	72	77	81	83	85	86	86	87	86	89	90	92	94	96	98	100
40	41	50	57	66	72	77	81	83	84	85	86	86	86	89	89	91	93	96	98	100

Female, Smoker

Issue Age	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
41	40	50	57	65	71	76	79	81	83	84	85	86	85	89	90	92	94	96	98	100
42	40	49	57	65	69	74	77	80	82	83	84	85	86	90	92	94	95	97	98	100
43	39	49	55	63	69	73	76	78	80	82	83	84	85	92	93	94	96	97	99	100
44	39	48	55	62	67	71	75	78	80	80	82	84	86	93	96	97	98	98	99	100
45	37	47	55	61	65	70	73	76	78	80	81	84	86	94	97	98	98	99	99	100
46	36	46	53	59	63	68	71	75	77	79	83	85	86	93	96	97	98	98	99	100
47	34	44	51	57	62	66	70	75	77	80	83	85	86	93	94	95	96	98	99	100
48	34	44	50	54	60	64	69	74	77	80	84	86	87	92	92	94	95	97	98	100
49	33	42	48	53	58	63	68	74	77	81	84	86	87	92	91	93	95	96	98	100
50	31	41	46	51	57	61	67	74	77	81	85	87	87	91	90	92	94	96	98	100
51	30	39	45	51	56	61	67	74	75	80	83	85	85	90	90	92	94	96	98	100
52	29	38	45	50	56	62	68	74	75	79	81	83	84	90	90	92	94	96	100	100
53	28	37	43	49	57	62	68	73	74	77	79	81	83	89	89	91	93	100	100	100
54	28	36	43	49	57	63	69	73	74	75	78	80	81	87	89	91	100	100	100	100
55	26	35	42	49	57	63	69	73	73	74	76	78	79	86	87	100	100	100	100	100
56	26	35	42	49	56	62	67	71	72	74	76	78	79	85	100	100	100	100	100	100
57	26	35	42	49	55	61	66	69	72	73	76	78	79	100	100	100	100	100	100	100
58	28	36	43	49	55	59	63	68	69	72	76	78	100	100	100	100	100	100	100	100
59	28	36	43	49	54	57	63	67	68	70	76	100	100	100	100	100	100	100	100	100
60	28	36	43	49	53	57	61	64	67	69	100	100	100	100	100	100	100	100	100	100
61	26	35	42	48	52	56	59	63	66	80	100	100	100	100	100	100	100	100	100	100
62	26	33	41	47	51	55	58	62	80	80	100	100	100	100	100	100	100	100	100	100
63	25	33	41	46	51	55	57	80	80	80	100	100	100	100	100	100	100	100	100	100
64	25	33	40	45	50	53	80	80	80	80	100	100	100	100	100	100	100	100	100	100
65	24	32	39	44	49	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
66	24	32	39	44	72	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
67	24	32	39	72	72	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
68	24	32	68	72	72	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
69	24	64	68	72	72	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
70	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100

Female, Smoker

Issue Age	Duration																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20+
71	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
72	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
73	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
74	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
75	60	60	64	68	68	72	75	75	80	80	100	100	100	100	100	100	100	100	100	100
76	60	60	64	68	68	72	75	75	80	100	100	100	100	100	100	100	100	100	100	100
77	60	60	64	68	68	72	75	75	100	100	100	100	100	100	100	100	100	100	100	100
78	60	60	64	68	68	72	75	100	100	100	100	100	100	100	100	100	100	100	100	100
79	60	60	64	68	68	72	100	100	100	100	100	100	100	100	100	100	100	100	100	100
80	60	60	64	68	68	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
81	60	60	64	68	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
82	60	60	64	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
83	60	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
84	60	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
85+	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

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