

Part 2 Chapter 7: (84-104) Mississippi’s Regulation Permitting the Use of Smoker/Non-Smoker Mortality Tables When Determining Minimum Reserve Liabilities and Nonforfeiture Benefits.

Rule 7.01: Preamble and Authority

I, George Dale, duly elected Commissioner of Insurance of the State of Mississippi, pursuant to the authority granted in me in Section 83-7-25, Mississippi Code of 1972, as Amended, and in accordance with Sections 25-43-1 through 25-43-19, Mississippi Code of 1972, known as the Mississippi Administrative Procedure Law, do hereby promulgate the following Rules and Regulation with an effective date as herein set forth in Section 7, upon compliance with the applicable statutes.

Source: Miss. Code Ann. § 83-7-25 (Rev 2011); 25-43-3.113(Rev. 2010)

Rule 7.02: Purpose

The purpose of the Regulation is to permit the use of mortality tables that reflect differences in mortality between smokers and nonsmokers in determining minimum reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits for plans of insurance with separate premium rates for smokers and nonsmokers.

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.03: Definitions

- A. As used in this Regulation, “1980 CSO Table, with or without Ten-Year Select Mortality Factor” means that mortality table, consisting of separate rates of mortality for male and female lives, developed by the Society of Actuaries Committee to Recommend New Mortality Tables for Valuation of Standard Individual Ordinary Life Insurance, incorporated in the 1980 NAIC Amendments to the Model Standard Valuation Law and Standard Nonforfeiture Law for Life Insurance, and referred to in those models as the Commissioners 1980 Standard Ordinary Mortality Table, with or without Ten-Year Select Mortality Factors. The same select factors will be used for both smokers and non-smokers tables.

- B. As used in this Regulation, “1980 CET Table” means that mortality table consisting of separate rates of mortality for male and female lives, developed by the Society of Actuaries Committee to Recommend New Mortality Tables for Valuation of Standard Individual Ordinary Life Insurance, incorporated in the 1980 NAIC Amendments to the

Model Standard Nonforfeiture Law for Life Insurance, and referred to in that model as the Commissioners 1980 Extended Term Insurance Table.

- C. As used in this Regulation, “1958 CSO Table” means that mortality table developed by the Society of Actuaries Special Committee on New Mortality Tables, incorporated in the NAIC Model Standard Nonforfeiture Law for Life Insurance, and referred to in that model as the Commissioners 1958 Standard Ordinary Mortality Table.
- D. As used in this Regulation, “1958 CET Table” means that mortality table developed by the Society of Actuaries Special Committee on New Mortality Tables, incorporated in the NAIC Model Standard Nonforfeiture Law for Life Insurance, and referred to in that model as the Commissioners 1958 Extended Term Insurance Table.
- E. As used in this Regulation, the phrase “smoker and nonsmoker mortality tables” refers to the mortality tables with separate rates of mortality for smokers and nonsmokers derived from the tables defined in A through D of this section which were developed by the Society of Actuaries Task Force on Smoker/Nonsmoker Mortality and the California Insurance Department staff and recommended on the NAIC Technical Staff Actuarial Group.
- F. As used in this Regulation, the phrase “composite mortality tables” refers to the mortality tables defined in A through D of this section as they were originally published with rates of mortality that do not distinguish between smokers and nonsmokers.

Source: Miss. Code Ann. §§83-5-1; 83-7-25 (Rev 2011)

Rule 7.04: Alternate Table

- A. For any policy of insurance delivered or issued for delivery in this state after the operative date of Section 83-7-25(5-c)(K) for that policy form and before January 1, 1989, at the option of the company and subject to the conditions stated in Section 5 of this Regulation,
 - 1. the 1958 CSO Smoker and Nonsmoker Mortality Tables may be substituted for the 1980 CSO Table, with or without Ten-Year Select Mortality Factors, and
 - 2. the 1958 CET Smoker and Nonsmoker Mortality Tables may be substituted for the 1980 CET Table

for use in determining reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits.

Provided that for any category of insurance issued on female lives with minimum reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits determined using the 1958 CSO and 1958 CET Smoker and Nonsmoker Mortality Tables, such minimum values may be calculated according to an age not more than six years younger than the actual age of the insured.

Provided further that the substitution of the 1958 CSO or 1958 CET Smoker and Nonsmoker Mortality Tables is available only if made for each policy of insurance on a policy form delivered or issued for delivery on or after the operative date for that policy form and before a date not later than January 1, 1989.

- B. For any policy of insurance delivered or issued for delivery in this state after the operative date of Section 83-7-25(5-C)(K) for that policy form, at the option of the company and subject to the conditions stated in Section 5 of this Regulation,
 - 1. the 1980 CSO Smoker and Nonsmoker Mortality Tables, with or without Ten-Year Select Mortality Factors, may be substituted for the 1980 CSO Table, with or without Ten-Year Select Mortality Factors, and
 - 2. the 1980 CET Smoker and Nonsmoker Mortality Tables may be substituted for the 1980 CET Table

for use in determining minimum reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits.

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.05: Conditions

For each plan of insurance with separate rates for smokers and nonsmokers an insurer may

- A. use composite mortality tables to determine minimum reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits.
- B. use smoker and nonsmoker mortality tables to determine the valuation net premiums and additional minimum reserves, if any, required by Section 83-7-23(7) and use composite mortality tables to determine the basic minimum reserves, minimum cash surrender values and amounts of paid-up nonforfeiture benefits, or

C. use smoker and nonsmoker mortality to determine minimum reserve liabilities and minimum cash surrender values and amounts of paid-up nonforfeiture benefits.

Source: Miss. Code Ann. § 83-7-25; 83-5-1 (Rev 2011)

Rule 7.06: Separability

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

Source: Miss. Code Ann. § 83-5-1 (Rev 2011)

Rule 7.07: Effective Date

The effective date of this Regulation shall be thirty (30) days from and after its adoption and filing with the Secretary of State of the State of Mississippi.

PROMULGATED AND ADOPTED this the 13th day of August, 1984.

Source: Miss. Code Ann. § 25-43-3.113 (Rev 2010)

Rule 7.08 Table 1:

Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables for Use in Determining Minimum Reserve Liabilities and Nonforfeiture

Benefits: 1958 CSO Male and Smoker and Non-Smoker Mortality Rates

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	1.46	1.74	45	3.46	6.67	75	68.58	89.23
16	1.53	1.85	46	3.76	7.32	76	74.50	95.68
17	1.60	1.96	47	4.08	8.02	77	81.15	102.84
18	1.64	2.03	48	4.45	8.82	78	88.62	110.80
19	1.65	2.05	49	4.86	9.71	79	96.85	119.44

20	1.64	2.05	50	5.31	10.68	80	105.75	128.60
21	1.62	2.04	51	5.83	11.75	81	115.27	138.20
22	1.63	2.07	52	6.40	12.88	82	125.28	148.05
23	1.63	2.08	53	7.07	14.16	83	135.72	158.05
24	1.64	2.11	54	7.84	15.54	84	146.62	168.22
25	1.64	2.12	55	8.72	17.03	85	158.06	178.62
26	1.65	2.15	56	9.74	18.65	86	170.03	189.26
27	1.66	2.18	57	10.91	20.44	87	182.76	200.21
28	1.67	2.23	58	12.26	22.35	88	196.27	211.61
29	1.69	2.29	59	13.74	24.42	89	210.88	223.70
30	1.71	2.37	60	15.38	26.72	90	226.99	236.85
31	1.73	2.45	61	17.16	29.21	91	244.83	253.34
32	1.75	2.52	62	19.14	31.88	92	265.20	272.12
33	1.79	2.63	63	21.29	34.83	93	288.78	293.80
34	1.83	2.73	64	23.68	38.00	94	316.38	319.13
35	1.88	2.86	65	26.34	41.44	95	351.24	351.24
36	1.95	3.03	66	29.32	45.19	96	400.56	400.56
37	2.04	3.25	67	32.61	49.20	97	488.42	488.42
38	2.15	3.52	68	36.28	53.55	98	668.15	668.15
39	2.28	3.83	69	40.17	58.31	99	1000.00	1000.00
40	2.43	4.19	70	44.34	63.27			
41	2.60	4.62	71	48.74	68.33			
42	2.78	5.04	72	53.32	73.41			
43	2.99	5.55	73	58.07	78.50			
44	3.21	6.09	74	63.11	83.71			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.09: Table 2:

Mississippi Model Regulation Permitting Smoker/Nonsmokers Mortality Tables For Use in Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:

1958 CET Male and Smoker and Non-Smoker Mortality Rates

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	2.21	2.49	45	4.50	8.67	75	89.15	116.00
16	2.28	2.60	46	4.89	9.52	76	96.85	124.38
17	2.35	2.71	47	5.30	10.43	77	105.50	133.69
18	2.39	2.78	48	5.79	11.47	78	115.21	144.04
19	2.40	2.80	49	6.32	12.62	79	125.91	155.27

20	2.39	2.80	50	6.90	13.88	80	137.48	167.18
21	2.37	2.79	51	7.58	15.28	81	149.85	179.66
22	2.38	2.82	52	8.32	16.74	82	162.86	192.47
23	2.38	2.83	53	9.19	18.41	83	176.44	205.47
24	2.39	2.86	54	10.19	20.20	84	190.61	218.69
25	2.39	2.87	55	11.34	22.14	85	205.48	232.21
26	2.40	2.90	56	12.66	24.25	86	221.10	246.04
27	2.41	2.93	57	14.18	26.57	87	237.59	260.27
28	2.42	2.98	58	15.94	29.06	88	255.15	275.09
29	2.44	3.04	59	17.86	31.75	89	274.14	290.81
30	2.46	3.12	60	19.99	34.74	90	295.09	307.91
31	2.48	3.20	61	22.31	37.97	91	318.28	329.34
32	2.50	3.28	62	24.88	41.44	92	344.76	353.76
33	2.54	3.42	63	27.68	45.28	93	375.41	381.94
34	2.58	3.55	64	30.78	49.40	94	411.29	414.87
35	2.63	3.72	65	34.24	53.87	95	456.61	456.61
36	2.70	3.94	66	38.12	58.75	96	520.73	520.73
37	2.79	4.23	67	42.39	63.96	97	634.95	634.95
38	2.90	4.58	68	47.16	69.62	98	868.60	868.60
39	3.03	4.98	69	52.22	75.80	99	1000.00	1000.00
40	3.18	5.45	70	57.64	82.25			
41	3.36	6.01	71	63.36	88.83			
42	3.61	6.55	72	69.32	95.43			
43	3.89	7.22	73	75.49	102.05			
44	4.17	7.92	74	82.04	108.82			

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.10: Table 3:

Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:

1958 CSO Male ALB Smoker and Non-Smoker Mortality Rates

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
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15	1.49	1.79	45	3.61	6.99	75	71.43	92.30
16	1.56	1.90	46	3.92	7.67	76	77.70	99.08
17	1.62	1.99	47	4.26	8.42	77	84.73	106.60
18	1.64	2.04	48	4.65	9.26	78	92.54	114.87
19	1.65	2.05	49	5.08	10.19	79	101.07	123.73
20	1.63	2.05	50	5.57	11.21	80	110.24	133.07
21	1.62	2.05	51	6.11	12.31	81	119.97	142.76
22	1.63	2.07	52	6.73	13.52	82	130.15	152.65
23	1.63	2.09	53	7.45	14.85	83	140.77	162.70
24	1.64	2.11	54	8.28	16.28	84	151.89	172.94
25	1.64	2.13	55	9.23	17.83	85	163.55	183.42
26	1.65	2.16	56	10.32	19.54	86	175.83	194.16
27	1.66	2.20	57	11.58	21.39	87	188.84	205.28
28	1.68	2.26	58	13.00	23.37	88	202.78	216.94
29	1.70	2.33	59	14.55	25.56	89	217.99	229.45
30	1.72	2.41	60	16.26	27.95	90	234.77	243.99
31	1.74	2.48	61	18.14	30.53	91	253.59	261.37
32	1.77	2.57	62	20.20	33.33	92	275.19	281.25
33	1.81	2.68	63	22.47	36.39	93	300.25	304.28
34	1.85	2.79	64	24.99	39.69	94	330.53	332.14
35	1.91	2.94	65	27.81	43.28	95	370.65	370.65
36	1.99	3.14	66	30.94	47.15	96	433.49	433.49
37	2.09	3.38	67	34.41	51.32	97	549.25	549.25
38	2.21	3.67	68	38.19	55.86	98	750.84	750.84
39	2.35	4.01	69	42.21	60.72	99	1000.00	1000.00
40	2.51	4.40	70	45.49	65.72			
41	2.69	4.88	71	50.97	70.73			
42	2.88	5.29	72	55.63	75.85			
43	3.10	5.82	73	60.51	81.00			
44	3.33	6.88	74	65.76	86.35			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.11: Table 4:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1958 CET Male ALB smoker and Non-Smoker Mortality Rates

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	2.24	2.54	45	4.69	9.09	75	92.82	119.93
16	2.31	2.65	46	5.09	9.97	76	100.95	128.73
17	2.37	2.74	47	5.54	10.95	77	110.08	138.49
18	2.39	2.79	48	6.05	12.04	78	120.23	149.22
19	2.40	2.80	49	6.61	13.25	79	131.31	160.72
20	2.38	2.80	50	7.24	14.58	80	143.21	172.85
21	2.37	2.80	51	7.95	16.00	81	155.83	185.43
22	2.38	2.82	52	8.75	17.57	82	169.05	198.28
23	2.38	2.84	53	9.69	19.30	83	182.84	211.32
24	2.39	2.86	54	10.76	21.16	84	197.26	224.62
25	2.39	2.88	55	12.00	23.18	85	212.40	238.22
26	2.40	2.91	56	13.42	25.40	86	228.32	252.16
27	2.41	2.95	57	15.05	27.80	87	245.19	266.57
28	2.43	3.01	58	16.89	30.39	88	263.26	281.70
29	2.45	3.08	59	18.92	33.22	89	282.95	297.91
30	2.47	3.16	60	21.14	36.33	90	304.68	316.68
31	2.49	3.24	61	23.58	39.67	91	329.01	339.14
32	2.52	3.35	62	26.26	43.32	92	356.89	364.82
33	2.56	3.48	63	29.21	47.29	93	389.20	394.52
34	2.60	3.63	64	32.48	51.58	94	428.08	430.28
35	2.66	3.83	65	36.15	56.24	95	479.19	479.19
36	2.74	4.08	66	40.21	61.28	96	557.74	557.74
37	2.84	4.40	67	44.72	66.70	97	697.43	697.43
38	2.96	4.78	68	49.63	72.60	98	883.86	883.86
39	3.10	5.21	69	54.86	78.90	99	1000.00	1000.00
40	3.28	5.73	70	60.42	85.40			
41	3.49	6.28	71	66.24	91.98			
42	3.75	6.88	72	72.29	98.57			
43	4.03	7.57	73	78.64	105.25			
44	4.33	8.29	74	85.44	112.20			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.12:Table 5:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CSO Female Smoker and Non-Smoker Mortality Rates: Age Nearest Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	0.84	0.94	45	2.99	4.61	75	37.32	46.64
16	0.88	0.99	46	3.19	4.95	76	42.04	51.92
17	0.92	1.04	47	3.41	5.31	77	47.11	57.46
18	0.95	1.09	48	3.65	5.68	78	52.53	63.23
19	0.98	1.13	49	3.90	6.08	79	58.45	69.41
20	1.01	1.16	50	4.19	6.54	80	65.12	76.26
21	1.02	1.18	51	4.50	7.00	81	72.76	84.00
22	1.04	1.21	52	4.85	7.52	82	81.59	92.84
23	1.05	1.23	53	5.26	8.13	83	91.76	102.87
24	1.08	1.27	54	5.68	8.75	84	103.03	114.65
25	1.09	1.29	55	6.13	9.40	85	115.38	126.42
26	1.12	1.34	56	6.59	10.05	86	128.58	139.79
27	1.14	1.38	57	7.05	10.67	87	142.71	152.67
28	1.17	1.42	58	7.49	11.25	88	157.61	167.23
29	1.20	1.48	59	7.96	11.85	89	173.51	181.07
30	1.24	1.55	60	8.51	12.51	90	190.39	197.01
31	1.27	1.61	61	9.16	13.36	91	208.58	214.00
32	1.31	1.68	62	9.98	14.39	92	228.60	232.54
33	1.35	1.75	63	11.01	15.78	93	251.40	253.55
34	1.42	1.86	64	12.23	17.33	94	279.31	279.31
35	1.47	1.94	65	13.55	19.07	95	317.32	317.32
36	1.56	2.09	66	14.97	20.79	96	375.74	375.74
37	1.67	2.28	67	16.41	22.58	97	474.97	474.97
38	1.79	2.49	68	17.86	24.20	98	655.85	655.85
39	1.93	2.73	69	19.41	26.02	99	1000.00	1000.00
40	2.08	3.00	70	21.21	27.95			
41	2.26	3.33	71	23.34	30.45			
42	2.44	3.64	72	25.99	33.55			
43	2.62	3.96	73	29.22	37.33			
44	2.80	4.28	74	33.02	41.74			

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.13: Table 6:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CSO Male Smoker and Non-Smoker Mortality Rates: Age Nearest Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	1.29	1.65	45	3.32	6.27	75	58.80	83.77
16	1.43	1.87	46	3.59	6.83	76	65.06	91.10
17	1.54	2.05	47	3.88	7.44	77	71.64	98.52
18	1.60	2.16	48	4.19	8.08	78	78.47	105.91
19	1.66	2.26	49	4.54	8.80	79	85.72	113.49
20	1.68	2.31	50	4.91	9.56	80	93.67	121.59
21	1.67	2.33	51	5.35	10.44	81	102.52	130.41
22	1.64	2.30	52	5.86	11.42	82	112.52	140.20
23	1.61	2.26	53	6.43	12.54	83	123.79	151.03
24	1.57	2.21	54	7.09	13.80	84	136.11	162.49
25	1.52	2.14	55	7.82	15.14	85	149.20	174.20
26	1.48	2.08	56	8.63	16.59	86	162.80	185.78
27	1.46	2.06	57	9.49	18.09	87	176.79	197.06
28	1.44	2.04	58	10.42	19.69	88	190.89	209.37
29	1.44	2.06	59	11.47	21.35	89	205.29	221.52
30	1.44	2.10	60	12.64	23.19	90	220.19	233.69
31	1.47	2.17	61	13.94	25.26	91	235.84	246.12
32	1.50	2.24	62	15.42	27.59	92	252.75	259.33
33	1.55	2.35	63	17.11	30.23	93	271.63	276.30
34	1.61	2.48	64	19.02	33.14	94	295.65	298.15
35	1.69	2.63	65	21.13	36.29	95	329.96	329.96
36	1.77	2.81	66	23.40	39.57	96	384.55	384.55
37	1.88	3.04	67	25.86	43.01	97	480.20	480.20
38	2.00	3.30	68	28.50	46.55	98	657.98	657.98
39	2.14	3.60	69	31.38	50.32	99	1000.00	1000.00

40	2.29	3.94	70	34.63	54.48			
41	2.47	4.34	71	38.91	59.09			
42	2.65	4.75	72	42.56	64.33			
43	2.86	5.22	73	47.44	70.23			
44	3.07	5.71	74	52.92	76.66			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.14: Table 7:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CET Female Smoker and Non-Smoker Mortality Rates: Age Nearest Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	1.59	1.69	45	3.89	5.99	75	48.52	60.63
16	1.63	1.74	46	4.15	6.44	76	54.65	67.50
17	1.67	1.79	47	4.43	6.90	77	61.24	74.70
18	1.70	1.84	48	4.75	7.38	78	68.29	82.20
19	1.73	1.88	49	5.07	7.90	79	75.99	90.23
20	1.76	1.91	50	5.45	8.50	80	84.66	99.14
21	1.77	1.93	51	5.85	9.10	81	94.59	109.20
22	1.79	1.96	52	6.31	9.78	82	106.07	120.69
23	1.80	1.98	53	6.84	10.57	83	119.29	133.73
24	1.83	2.02	54	7.38	11.38	84	133.94	149.05
25	1.84	2.04	55	7.97	12.22	85	149.99	164.35
26	1.87	2.09	56	8.57	13.07	86	167.15	181.73
27	1.89	2.13	57	9.17	13.87	87	185.52	198.47
28	1.92	2.17	58	9.74	14.63	88	204.89	217.40
29	1.95	2.23	59	10.35	15.41	89	225.56	235.39

30	1.99	2.30	60	11.06	16.26	90	247.51	256.11
31	2.02	2.36	61	11.91	17.37	91	271.15	278.20
32	2.06	2.43	62	12.97	18.71	92	197.18	302.30
33	2.10	2.50	63	14.31	20.51	93	326.82	329.62
34	2.17	2.61	64	15.90	22.53	94	363.10	363.10
35	2.22	2.69	65	17.62	24.79	95	412.52	412.52
36	2.31	2.84	66	19.46	27.03	96	488.46	488.46
37	2.42	3.03	67	21.33	29.35	97	617.46	617.46
38	2.54	3.24	68	23.22	31.46	98	852.61	852.61
39	2.68	3.55	69	25.23	33.83	99	1000.00	1000.00
40	2.83	3.90	70	27.56	36.34			
41	3.01	4.33	71	30.34	39.59			
42	3.19	4.73	72	33.79	43.62			
43	3.41	5.15	73	37.99	48.53			
44	3.64	5.55	74	42.93	54.26			

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.15: Table 8:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CET Male Smoker and Non-Smoker Mortality Rates: Age Nearest Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	2.04	2.40	45	4.32	8.15	75	76.44	108.90
16	2.18	2.62	46	4.67	8.88	76	84.58	118.43
17	2.29	2.80	47	5.04	9.67	77	93.13	128.08
18	2.35	2.91	48	5.45	10.50	78	102.01	137.68
19	2.41	3.01	49	5.90	11.44	79	111.44	147.54

20	2.43	3.06	50	6.38	12.43	80	121.77	158.07
21	2.42	3.08	51	6.96	13.57	81	133.28	169.53
22	2.39	3.05	52	7.62	14.85	82	146.28	182.26
23	2.36	3.01	53	8.36	16.30	83	160.93	196.34
24	2.32	2.96	54	9.22	17.94	84	176.94	211.24
25	2.27	2.89	55	10.17	19.68	85	193.96	226.46
26	2.23	2.83	56	11.22	21.57	86	211.64	241.51
27	2.21	2.91	57	12.34	23.52	87	229.83	256.18
28	2.19	2.79	58	16.55	25.60	88	248.16	272.18
29	2.19	2.81	59	14.91	27.76	89	266.88	287.98
30	2.19	2.85	60	16.43	30.15	90	286.25	303.80
31	2.22	2.92	61	18.12	32.84	91	306.59	319.96
32	2.25	2.99	62	20.05	35.87	92	328.58	337.19
33	2.30	3.10	63	22.24	39.30	93	353.12	359.19
34	2.36	3.23	64	24.73	43.08	94	384.35	387.60
35	2.44	3.42	65	27.47	47.18	95	428.95	428.95
36	2.52	3.65	66	30.42	51.44	96	499.92	499.92
37	2.63	3.95	67	33.62	55.91	97	624.26	624.26
38	2.75	4.29	68	37.05	60.52	98	855.37	855.37
39	2.89	4.68	69	40.79	65.42	99	1000.00	1000.00
40	3.04	5.12	70	45.02	70.82			
41	3.22	5.64	71	49.80	76.82			
42	3.45	6.18	72	55.33	83.63			
43	3.72	6.79	73	61.67	91.30			
44	3.99	7.42	74	68.80	99.66			

Source: *Miss. Code Ann.* § 83-7-25 (Rev 2011)

Rule 7.16: Table 9:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CSO Female Smoker and Non-Smoker Mortality Rates: Age Last Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	0.86	0.96	45	3.09	4.78	75	39.64	49.22
16	0.90	1.01	46	3.30	5.13	76	44.52	54.62
17	0.93	1.06	47	3.53	5.49	77	49.75	60.26
18	0.96	1.11	48	3.77	5.88	78	55.41	66.22
19	0.99	1.14	49	4.04	6.31	79	61.68	72.71
20	1.01	1.17	50	4.34	6.77	80	68.81	79.98
21	1.03	1.19	51	4.67	7.26	81	77.01	88.23
22	1.04	1.22	52	5.05	7.82	82	86.46	97.61
23	1.06	1.25	53	5.47	8.44	83	97.12	108.44
24	1.08	1.28	54	5.90	9.07	84	108.87	120.18
25	1.10	1.31	55	6.36	9.72	85	121.58	132.65
26	1.13	1.36	56	6.82	10.36	86	135.16	145.75
27	1.15	1.40	57	7.27	10.96	87	149.59	159.35
28	1.18	1.45	58	7.72	11.55	88	164.88	173.52
29	1.22	1.51	59	8.23	12.18	89	181.15	188.25
30	1.25	1.58	60	8.83	12.93	90	198.53	204.58
31	1.29	1.64	61	9.57	13.87	91	217.42	222.16
32	1.33	1.71	62	10.49	15.08	92	238.53	241.66
33	1.38	1.80	63	11.62	16.55	93	262.35	264.56
34	1.44	1.90	64	12.89	18.19	94	295.23	295.23
35	1.51	2.01	65	14.26	19.92	95	341.02	341.02
36	1.61	2.18	66	15.68	21.68	96	413.88	413.88
37	1.73	2.38	67	17.13	23.38	97	537.24	537.24
38	1.86	2.61	68	18.63	25.10	98	743.96	743.96
39	2.00	2.86	69	20.30	26.97	99	1000.00	1000.00
40	2.17	3.16	70	22.26	29.13			
41	2.35	3.48	71	24.65	31.98			
42	2.53	3.80	72	27.58	35.41			
43	2.71	4.12	73	31.09	39.49			
44	2.89	4.44	74	35.13	44.14			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.17: Table 10:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CSO Male Smoker and Non-Smoker Mortality Rates: Age Last Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	1.36	1.76	45	3.45	6.55	75	61.84	87.27
16	1.48	1.96	46	3.73	7.13	76	68.24	94.63
17	1.57	2.10	47	4.03	7.76	77	74.93	102.02
18	1.63	2.21	48	4.36	8.44	78	81.95	109.49
19	1.67	2.28	49	4.72	9.18	79	89.52	117.30
20	1.68	2.32	50	5.13	10.00	80	97.88	125.71
21	1.66	2.32	51	5.60	10.93	81	107.25	134.96
22	1.63	2.28	52	6.14	11.98	82	117.82	145.21
23	1.59	2.24	53	6.76	13.17	83	129.54	156.29
24	1.55	2.18	54	7.45	14.47	84	142.18	167.83
25	1.50	2.11	55	8.22	15.86	85	155.45	179.44
26	1.47	2.07	56	9.06	17.33	86	169.18	190.84
27	1.45	2.05	57	9.95	18.88	87	183.16	202.54
28	1.44	2.05	58	10.94	20.51	88	197.33	214.73
29	1.44	2.08	59	12.05	22.26	89	211.89	226.85
30	1.45	2.13	60	13.29	24.21	90	227.05	239.08
31	1.48	2.20	61	14.67	26.41	91	243.16	251.80
32	1.52	2.29	62	16.26	28.89	92	260.82	266.55
33	1.58	2.41	63	18.06	31.66	93	281.75	285.47
34	1.65	2.55	64	20.06	34.69	94	309.83	311.27
35	1.73	2.72	65	22.25	37.90	95	351.86	351.86
36	1.82	2.92	66	24.62	41.26	96	420.99	420.99
37	1.94	3.17	67	27.16	44.74	97	541.00	541.00
38	2.07	3.45	68	29.92	48.39	98	745.15	745.15
39	2.21	3.77	69	32.98	52.35	99	1000.00	1000.00
40	2.38	4.14	70	36.44	56.72			
41	2.56	4.54	71	40.39	61.63			
42	2.75	4.98	72	44.95	67.18			
43	2.96	5.46	73	50.11	73.33			
44	3.19	5.99	74	55.78	80.07			

Source: *Miss. Code Ann. § 83-7-25 (Rev 2011)*

Rule 7.18: Table 11:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CET Female Smoker and Non-Smoker Mortality Rates: Age Last Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	1.61	1.71	45	4.02	6.21	75	51.53	63.99
16	1.65	1.76	46	4.29	6.67	76	57.88	71.01
17	1.68	1.81	47	4.59	7.14	77	64.68	78.34
18	1.71	1.86	48	4.90	7.64	78	72.03	86.09
19	1.74	1.89	49	5.25	8.20	79	80.18	94.52
20	1.76	1.92	50	5.64	8.80	80	89.45	103.97
21	1.78	1.94	51	6.07	9.44	81	100.11	114.70
22	1.79	1.97	52	6.57	10.17	82	112.40	126.89
23	1.81	2.00	53	7.11	10.97	83	126.26	140.97
24	1.83	2.03	54	7.67	11.79	84	141.53	156.23
25	1.85	2.06	55	8.27	12.64	85	158.05	172.45
26	1.88	2.11	56	8.87	13.52	86	175.71	189.48
27	1.90	2.15	57	9.45	14.44	87	194.47	207.16
28	1.93	2.20	58	10.04	15.40	88	214.34	225.58
29	1.97	2.26	59	10.70	16.40	89	235.50	244.73
30	2.00	2.33	60	11.48	17.44	90	258.09	265.95
31	2.04	2.39	61	12.44	18.52	91	282.65	288.81
32	2.08	2.46	62	13.64	19.64	92	310.09	314.16
33	2.13	2.55	63	15.11	20.80	93	342.36	343.93
34	2.19	2.65	64	16.76	22.00	94	383.80	383.80
35	2.26	2.76	65	18.54	23.24	95	443.33	443.33
36	2.36	2.93	66	20.38	24.52	96	538.04	538.04
37	2.48	3.13	67	22.27	25.84	97	698.41	698.41
38	2.61	3.39	68	24.22	27.20	98	967.15	967.15
39	2.75	3.72	69	26.39	28.60	99	1000.00	1000.00
40	2.92	4.11	70	28.94	30.04			
41	3.10	4.52	71	32.05	31.52			
42	3.29	4.94	72	35.85	33.04			
43	3.52	5.36	73	40.42	34.60			
44	3.76	5.77	74	45.67	36.20			

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)

Rule 7.19: Table 12:

**Mississippi Model Regulation Permitting Smokers/Nonsmokers Mortality Tables For Use In
Determining Minimum Reserve Liabilities and Nonforfeiture Benefits:**

1980 CET Male Smoker and Non-Smoker Mortality Rates: Age Last Birthday

AGE	Non-Smoker	Smoker	AGE	Non-Smoker	Smoker	AGE	Non-smoker	Smoker
15	2.11	2.51	45	4.49	8.52	75	80.39	113.45
16	2.23	2.71	46	4.85	9.27	76	88.71	123.02
17	2.32	2.85	47	5.24	10.09	77	97.41	132.63
18	2.38	2.96	48	5.67	10.97	78	106.54	142.34
19	2.42	3.03	49	6.14	11.93	79	116.38	152.49
20	2.43	3.07	50	6.67	13.00	80	127.24	163.42
21	2.41	3.07	51	7.28	14.21	81	139.43	175.45
22	2.38	3.03	52	7.98	15.57	82	153.17	188.77
23	2.34	2.99	53	8.79	17.12	83	168.40	203.18
24	2.30	2.93	54	9.69	18.81	84	184.83	218.18
25	2.25	2.86	55	10.69	20.62	85	202.09	233.27
26	2.22	2.82	56	11.78	22.53	86	219.93	248.09
27	2.20	2.80	57	12.94	24.54	87	238.11	263.30
28	2.19	2.80	58	14.22	26.66	88	256.53	279.15
29	2.19	2.83	59	15.67	28.94	89	275.46	294.91
30	2.20	2.88	60	17.28	31.47	90	295.17	310.80
31	2.23	2.95	61	19.07	34.33	91	316.11	327.34
32	2.27	3.04	62	21.14	37.56	92	339.07	346.52
33	2.33	3.16	63	23.48	41.16	93	366.28	371.11
34	2.40	3.32	64	26.08	45.10	94	402.78	404.65
35	2.48	3.54	65	28.93	49.27	95	457.42	457.42
36	2.57	3.80	66	32.01	53.64	96	547.29	547.29
37	2.69	4.12	67	35.31	58.16	97	703.30	703.30
38	2.82	4.49	68	38.90	62.91	98	968.70	968.70
39	2.96	4.90	69	42.87	68.06	99	1000.00	1000.00

40	3.13	5.38	70	47.37	73.74			
41	3.33	5.90	71	52.51	80.12			
42	3.58	6.47	72	58.44	87.33			
43	3.85	7.10	73	65.14	95.33			
44	4.15	7.79	74	72.51	104.09			

Source: Miss. Code Ann. § 83-7-25 (Rev 2011)