

3 LIABILITIES

The liabilities of U.S. life insurers primarily comprise the reserves held by each insurer to back its obligations to policyholders and their beneficiaries. Of the many different kinds of reserves, policy and asset fluctuation reserves are the most important. Liabilities also include small amounts of other funds and obligations.

Based on standard accounting principles applied to all businesses, total liabilities plus the company's net value must equal its total assets. Net value is a company's surplus plus its capital stock and is available to support policyholder claims if necessary.

POLICY RESERVES

Policy reserves concern an insurer's obligation to its customers arising from its product in force. State law requires each company to maintain its policy reserves at a level that will assure payment of all policy obligations as they fall due. That level is calculated on an actuarial basis, taking into account funds from future premium payments, assumed future interest earnings, and expected mortality experience. At the end of 2016, policy reserves of U.S. life insurers totaled \$5.2 trillion, 4.1 percent higher than 2015 (Table 3.1).

Policy reserves are held and identified for each type of business conducted by a life insurer:

- Life insurance policies
- Annuities and supplementary contracts
- Health insurance policies

The composition of life insurer policy reserves has changed over the years, reflecting a shift in the basic types of business undertaken. Annuity contract reserves

now account for a larger proportion of total policy reserves, while reserves set aside for life insurance policies have a lesser share.

In 2016, reserves for life insurance comprised 29 percent of total policy reserves, at \$1.5 trillion (Figure 3.2, Table 3.2). This proportion has shrunk from 1980, when life insurance products commanded 51 percent of total reserves (Table 3.6). In 2016, these reserves consisted of \$1.3 trillion for individual life policies, \$181 billion for group policies, and less than \$1 billion for credit life policies (Table 3.2).

By contrast, reserves for annuities and supplementary contracts climbed to two-thirds of total reserves in 2016 (66%), or \$3.5 trillion, from 46 percent in 1980. Much of the increase reflects the strong growth in retirement plans administered by life insurers.

In 2016, annuity reserves consisted of \$2.4 trillion for individual annuities, up 5 percent from 2015, and \$1.1 trillion for group annuities, up 3.1 percent. General account annuity reserves increased 6 percent while separate account annuity reserves increased 3.1 percent (Table 3.2). Group annuity reserves had fallen significantly in 2001, primarily due to accounting codification rather than actual fluctuation. In 2000, liabilities for guaranteed interest contracts (GICs) and premium and other deposit funds had been reported as annuity reserves; however, as of 2001 these amounts were counted as liabilities for deposit-type contracts. Since most GICs and other deposit-type funds are under group contracts, this accounting change has had a substantial effect on group annuity reserves.

Reserves held under supplementary contracts with life contingencies in 2016 totaled \$23 billion, and for health insurance policies, \$264 billion.

DEPOSIT-TYPE CONTRACTS

Contracts issued by life insurers that do not incorporate mortality or morbidity risks are known as deposit-type contracts. Benefit payments under these contracts are not contingent upon death or disability as they are in life and disability insurance contracts, or upon continued survival as they are in annuity contracts. Categories of deposit-type contracts, as defined by the National Association of Insurance Commissioners (NAIC), include GICs, supplementary contracts without life contingencies, annuities certain, premium and other deposit funds, dividend and coupon accumulations, lottery payouts, and structured settlements.

Under codified statutory accounting practices implemented in 2001, cash inflows and outflows on deposit-type contracts are no longer reported as income and expenditure. Instead, they are recorded directly as increasing or decreasing reserves. During 2016, \$188 billion was deposited to these contracts and \$182 billion was withdrawn, with a total reserve of \$495 billion at year's end (Table 3.3).

In 2016, premium and other deposit funds remained the largest category of the deposit-type business with \$109 billion in deposits, \$114 billion in payments, and \$215 billion in reserve at year-end. GICs received \$58 billion from policyholders and paid out \$47 billion in 2016, leaving a reserve of \$169 billion at year's end.

ASSET FLUCTUATION RESERVES

Besides policy reserves, insurers are required to establish two statutory reserves to absorb gains and losses in their invested assets.

The asset valuation reserve (AVR) absorbs both realized and unrealized, credit-related capital gains and losses. The AVR consists of a default component, which provides for credit-related losses on fixed-income assets, and an equity component, which provides for all types of equity investments.

The interest maintenance reserve (IMR) captures all realized, interest-related capital gains and losses on fixed-income assets. The IMR amortizes these gains and losses into income over the remaining life of the investments sold.

In 2016, the industry's total AVR increased 4.1 percent to \$52 billion, and its IMR decreased 1 percent to \$24 billion (Table 3.1).

OTHER LIABILITIES

In addition to reserves, other liability funds of U.S. life insurers at the end of 2016 included \$46 billion in policy and contract claims; \$18 billion set aside for the following year's dividend payments to policyholders; and \$474 billion for liabilities not directly allocable to policyholders—incurred expenses, mandatory reserves for fluctuations in security values, and insurance premiums paid in advance, for example (Table 3.1).

SURPLUS FUNDS AND CAPITAL STOCK

Surplus and capital amounted to \$398 billion for U.S. life insurers at the end of 2016 (Table 3.1). Surplus funds provide extra reserve safeguards for such contingencies as an unexpected rise in death rates among policyholders, unusual changes in the value of securities, and general protection for policy obligations. Several factors influence the amount of surplus that a life insurer retains, including company size, kinds of insurance written, mortality experience, general business conditions, and government regulation. Capital refers to the total par value of shares of the companies' capital stock.

CAPITAL RATIOS

One measure of the adequacy of a life insurer's surplus is its capital ratio: surplus funds plus capital stock plus AVR as a percentage of general account assets. Theoretically, the higher the capital ratio, the better a company is able to withstand adverse investment and mortality experience. However, the type of company and the distribution of its book of business can make comparisons among companies and with an industry wide average much less meaningful. In 2016, the aggregate capital ratio of U.S. life insurers was 10.6 percent (Table 3.4).

Life insurance regulators created the risk-based capital (RBC) ratio to monitor life insurance company solvency. Risk-based capital, calculated according to an NAIC model law, is considered the minimum amount of capital an insurer needs to avoid triggering regulatory action. The RBC ratio is total adjusted capital divided by risk-based capital, for a threshold ratio of 100 percent. The ratio provides a means for evaluating the adequacy of an insurer's capital relative to the risks inherent in the insurer's operations.

From 1993 when life insurers began reporting risk-based capital, the average RBC ratio rose steadily to a plateau of 290 percent in 1997, which remained unbroken until 2001. That year, the ratio jumped to 346 percent, mainly due to two changes enacted by NAIC: accounting codification and an adjusted RBC formula that reflects changed risks for assets. In 2016, the ratio decreased 6 percentage points from 2015 level to 480 percent (Table 3.5).

Most companies have an RBC ratio well above the regulatory minimum level of 100 percent. By year-end 2016, 747 companies, or 94 percent of life insurers, had a ratio of 200 percent or more. These companies carried 99.7 percent of the industry's total assets.

Table 3.1

Liabilities and Surplus Funds of Life Insurers					
	General account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Reserves					
Policy reserves ¹	\$2,116,253	\$2,856,116	\$2,988,398	3.5	4.6
Other reserves					
Liabilities for deposit-type contracts ²	336,728	280,880	303,533	-1.0	8.1
Asset valuation reserve (AVR)	43,389	49,489	51,514	1.7	4.1
Policy and contract claims	39,361	44,121	45,795	1.5	3.8
Funds set aside for policyholder dividends	19,494	18,494	17,942	-0.8	-3.0
Interest maintenance reserve (IMR)	13,542	24,123	23,628	5.7	-2.1
Miscellaneous reserves ³	14,798	30,178	33,640	8.6	11.5
Total other reserves	467,312	447,284	476,052		
Total reserves	2,583,565	3,303,401	3,464,451	3.0	4.9
Non-reserve liabilities	250,056	356,054	391,235	4.6	9.9
Total liabilities	2,833,620	3,659,454	3,855,685	3.1	5.4
Capital and surplus	263,717	380,514	395,907	4.1	4.0
Total liabilities and surplus funds	3,097,338	4,039,968	4,251,592	3.2	5.2
Separate account (millions)					
	Separate account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Reserves					
Policy reserves ¹	\$1,491,490	\$2,169,132	\$2,243,273	4.2	3.4
Other reserves					
Liabilities for deposit-type contracts ²	150,761	189,549	191,939	2.4	1.3
Interest maintenance reserve (IMR)	286	-187	74	-6.8	NC
Total other reserves	151,047	189,362	192,013	2.4	1.4
Total reserves	1,642,537	2,358,494	2,435,286	4.0	3.3
Non-reserve liabilities	80,794	77,004	82,835	0.2	7.6
Total liabilities	1,723,331	2,435,498	2,518,120	3.9	3.4
Surplus	2,155	2,353	2,302	0.7	-2.2
Total liabilities and surplus funds	1,725,487	2,437,851	2,520,422	3.9	3.4

Continued

Table 3.1

Liabilities and Surplus Funds of Life Insurers—Continued

	Combined account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Reserves					
Policy reserves ¹	\$3,607,743	\$5,025,249	\$5,231,672	3.8	4.1
Other reserves					
Liabilities for deposit-type contracts ²	487,490	470,429	495,471	0.2	5.3
Asset valuation reserve (AVR)	43,389	49,489	51,514	1.7	4.1
Policy and contract claims	39,361	44,121	45,795	1.5	3.8
Funds set aside for policyholder dividends	19,494	18,494	17,942	-0.8	-3.0
Interest maintenance reserve (IMR)	13,827	23,935	23,702	5.5	-1.0
Miscellaneous reserves ³	14,798	30,178	33,640	8.6	11.5
Total other reserves	618,359	636,646	668,065	0.8	4.9
Total reserves	4,226,102	5,661,895	5,899,736	3.4	4.2
Non-reserve liabilities	330,850	433,057	474,069	3.7	9.5
Total liabilities	4,556,952	6,094,952	6,373,806	3.4	4.6
Capital and surplus	265,872	382,867	398,209	4.1	4.0
Total liabilities and surplus funds	4,822,824	6,477,819	6,772,014	3.5	4.5

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Codification effective with 2001 Annual Statement filings changed the reporting of certain lines of business, particularly deposit-type contracts, as explained in numbered footnotes. Data represent U.S. life insurers and fraternal benefit societies.

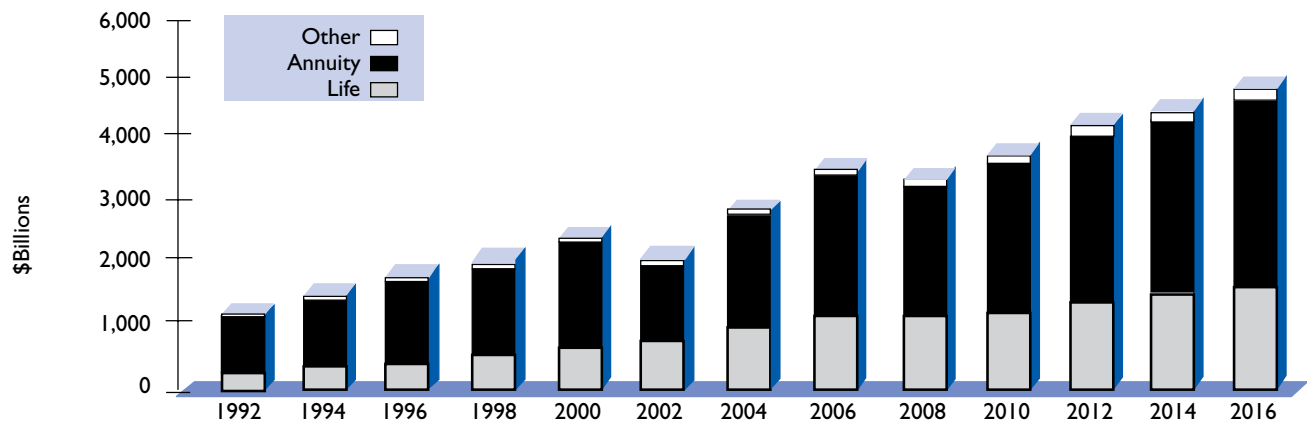
NC: Not calculated

¹Beginning in 2001, excludes reserves for guaranteed interest contracts (GICs).

²Prior to 2001, included supplementary contracts without life contingencies and policyholder dividend accumulations; beginning in 2001, also includes liabilities for GICs, and premium and other deposits.

³Includes insurance premiums paid in advance. The amount previously was included in non-reserve liabilities.

Figure 3.1

Growth of Life Insurers' Policy Reserves

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Data represent U.S. life insurers and, as of 2003, fraternal benefit societies.

Table 3.2

Policy Reserves of Life Insurers, by Line of Business

	General account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Life insurance					
Individual	\$809,764	\$1,068,343	\$1,087,813	3.0	1.8
Group	47,064	66,593	68,224	3.8	2.5
Credit	1,407	634	567	-8.7	-10.5
Total	858,235	1,135,570	1,156,605	3.0	1.9
Annuities¹					
Individual	796,579	1,104,633	1,176,878	4.0	6.5
Group	295,109	357,260	374,116	2.4	4.7
Supplementary contracts with life contingencies	15,860	21,341	21,882	3.3	2.5
Total	1,107,547	1,483,235	1,572,876	3.6	6.0
Health insurance					
Individual	105,789	175,170	194,592	6.3	11.1
Group	42,844	61,151	63,396	4.0	3.7
Credit	1,838	990	931	-6.6	-6.1
Total	150,471	237,312	258,918	5.6	9.1
Aggregate total	2,116,253	2,856,116	2,988,398	3.5	4.6
	Separate account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Life insurance					
Individual	\$178,856	\$224,183	\$231,252	2.6	3.2
Group	72,777	103,090	112,463	4.4	9.1
Total	251,633	327,273	343,714	3.2	5.0
Annuities¹					
Individual	724,495	1,171,371	1,213,681	5.3	3.6
Group	511,836	664,329	678,955	2.9	2.2
Supplementary contracts with life contingencies	893	1,241	1,352	4.2	8.9
Total	1,237,224	1,836,941	1,893,988	4.4	3.1
Health insurance					
Individual	169	-	-	NC	NC
Group	2,464	4,919	5,571	8.5	13.3
Total	2,633	4,919	5,571	7.8	13.3
Aggregate total	1,491,490	2,169,132	2,243,273	4.2	3.4

Continued

Table 3.2

Policy Reserves of Life Insurers, by Line of Business—Continued

	Combined account (millions)			Average annual percent change	
	2006	2015	2016	2006/2016	2015/2016
Life insurance					
Individual	\$988,620	\$1,292,526	\$1,319,065	2.9	2.1
Group	119,841	169,683	180,687	4.2	6.5
Credit	1,407	634	567	-8.7	-10.5
Total	1,109,868	1,462,842	1,500,319	3.1	2.6
Annuities¹					
Individual	1,521,074	2,276,004	2,390,559	4.6	5.0
Group	806,944	1,021,589	1,053,070	2.7	3.1
Supplementary contracts with life contingencies	16,753	22,582	23,234	3.3	2.9
Total	2,344,771	3,320,175	3,466,863	4.0	4.4
Health insurance					
Individual	105,958	175,170	194,592	6.3	11.1
Group	45,308	66,070	68,967	4.3	4.4
Credit	1,838	990	931	-6.6	-6.1
Total	153,104	242,231	264,489	5.6	9.2
Aggregate total	3,607,743	5,025,249	5,231,672	3.8	4.1

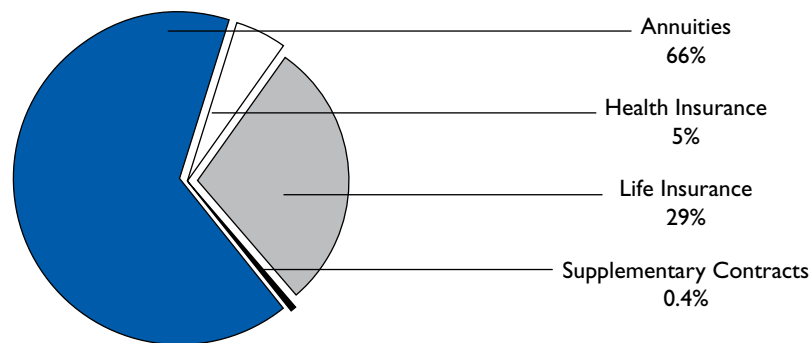
Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

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NC: Not calculated

¹As of 2001, excludes reserves for guaranteed interest contracts (GICs). Figures for GICs are presented in Table 3.3.

Figure 3.2

Distribution of Life Insurers' Policy Reserves, 2016

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Data represent U.S. life insurers and fraternal benefit societies.

Table 3.3

Deposit-Type Contracts, 2016 (millions)			
	Deposits	Withdrawals	Reserves
General account			
Guaranteed interest contracts (GICs)	\$43,785	\$35,086	\$74,361
Annuities certain	5,427	6,046	42,323
Supplementary contracts without life contingencies	14,235	13,326	46,722
Dividend accumulations or refunds	870	1,786	16,088
Premium and other deposit funds	94,562	89,361	124,038
Total	158,880	145,606	303,533
Separate account			
Guaranteed interest contracts (GICs)	14,312	11,824	95,103
Annuities certain	180	110	785
Supplementary contracts without life contingencies	26	90	152
Dividend accumulations or refunds	0	46	5,127
Premium and other deposit funds	14,131	24,816	90,772
Total	28,650	36,887	191,939
Combined account			
Guaranteed interest contracts (GICs)	58,098	46,910	169,465
Annuities certain	5,607	6,157	43,108
Supplementary contracts without life contingencies	14,262	13,416	46,873
Dividend accumulations or refunds	870	1,832	21,216
Premium and other deposit funds	108,694	114,178	214,810
Total	187,530	182,493	495,471

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Data represent U.S. life insurers and fraternal benefit societies.

Table 3.4

Capital Ratios of Life Insurers (percent)			
	2006	2015	2016
Including AVR	10.0	10.7	10.6
Excluding AVR	8.6	9.5	9.4

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Capital ratio is equal to capital plus surplus plus the asset valuation reserve (AVR) divided by general account assets. Data represent U.S. life insurers and fraternal benefit societies.

Table 3.5

Levels of Risk-Based Capital Held by Life Insurers, 2006–2016

Risk-based capital ratio	Number of companies										
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
200 percent or more	948	892	830	812	803	794	776	780	768	747	747
175–199	19	23	31	29	20	19	22	17	15	14	18
150–174	22	11	17	20	26	23	15	12	7	12	11
125–149	21	13	19	15	13	11	17	7	3	4	3
100–124	5	5	8	10	10	9	6	5	8	6	3
Less than 100 percent	14	16	36	19	11	10	8	7	5	9	11
Total	1,029	960	941	905	883	866	844	828	806	792	793
Average risk-based capital ratio	411%	406%	382%	418%	450%	457%	466%	481%	489%	486%	480%

Risk-based capital ratio	Percentage of companies (percent)										
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
200 percent or more	92.1	92.9	88.2	89.7	90.9	91.7	91.9	94.2	95.3	94.3	94.2
175–199	1.8	2.4	3.3	3.2	2.3	2.2	2.6	2.1	1.9	1.8	2.3
150–174	2.1	1.1	1.8	2.2	2.9	2.7	1.8	1.4	0.9	1.5	1.4
125–149	2.0	1.4	2.0	1.7	1.5	1.3	2.0	0.8	0.4	0.5	0.4
100–124	0.5	0.5	0.9	1.1	1.1	1.0	0.7	0.6	1.0	0.8	0.4
Less than 100 percent	1.4	1.7	3.8	2.1	1.2	1.2	0.9	0.8	0.6	1.1	1.4
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Risk-based capital ratio	Distribution of total assets (percent)										
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
200 percent or more	99.0	99.4	97.0	98.7	99.0	98.9	99.2	99.5	99.8	99.3	99.7
175–199	0.2	0.2	2.2	0.2	0.2	0.3	0.3	0.1	0.1	0.0	0.2
150–174	0.3	0.0	0.5	0.5	0.6	0.7	0.2	0.3	0.0	0.5	0.0
125–149	0.4	0.4	0.1	0.5	0.1	0.0	0.1	0.1	0.0	0.0	0.0
100–124	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.0	0.0
Less than 100 percent	0.0	0.0	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.1
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Risk-based capital ratio is total adjusted capital divided by total risk-based capital. Data represent U.S. life insurers and fraternal benefit societies.

Table 3.6

Life Insurers Policy Reserves, by Line of Business and Year (millions)

Year	Amount	Year	Amount	Year	Amount	Year	Amount
1890	\$670	1910	\$3,226	1925	\$9,927	1940	\$27,238
1900	1,443	1915	4,399	1930	16,231	1945	38,667
1905	2,295	1920	6,338	1935	20,404	1950	54,946
Year	Life insurance	Health insurance	Annuities ¹		Supplementary contracts ²	Total	
			Individual	Group			
1955	\$54,588	\$575	*	\$13,216	\$6,980	\$75,359	
1960	70,791	865	\$4,327	14,952	7,538	98,473	
1965	90,795	1,432	5,028	22,187	8,178	127,620	
1970	115,442	3,474	6,951	34,009	7,903	167,779	
1975	150,063	6,293	12,442	59,907	8,411	237,116	
1980	197,865	11,015	31,543	140,417	9,499	390,339	
1981	206,986	11,931	38,800	160,992	9,322	428,031	
1982	213,783	13,181	51,002	191,898	9,496	479,360	
1983	220,968	14,956	64,661	221,724	10,132	532,441	
1984	225,904	16,552	76,983	254,592	10,162	584,193	
1985	235,854	18,805	96,969	303,021	10,653	665,302	
1986	252,035	21,294	121,146	355,756	11,693	761,924	
1987	276,404	23,994	156,135	392,540	13,060	862,133	
1988	299,901	26,852	193,820	433,889	14,501	968,963	
1989	324,178	29,855	239,593	473,934	16,118	1,083,678	
1990	348,774	33,448	282,129	515,794	16,822	1,196,967	
1991	372,082	38,225	328,325	548,191	17,955	1,304,778	
1992	402,413	45,159	380,677	559,774	19,068	1,407,091	
1993	436,293	51,386	439,390	601,836	20,898	1,549,803	
1994	468,469	58,019	482,172	612,394	22,989	1,644,043	
1995	511,021	63,233	594,147	618,666	25,258	1,812,325	
1996	556,133	69,567	622,012	690,482	27,596	1,965,790	
1997	606,260	74,902	693,011	761,951	28,435	2,164,559	
1998	655,983	82,020	763,329	845,164	30,952	2,377,449	
1999	705,226	91,662	873,519	907,181	32,338	2,609,926	
2000	741,603	95,704	880,874	960,128	33,542	2,711,851	
2001	815,544	100,706	944,961	571,451	13,309	2,445,972	
2002	832,927	110,768	980,065	569,856	13,699	2,507,314	
2003‡	921,142	123,451	1,172,623	662,474	15,315	2,895,003	
2004‡	987,568	133,641	1,311,552	712,149	15,587	3,160,497	
2005‡	1,029,486	140,895	1,415,104	758,484	15,847	3,359,815	
2006‡	1,109,868	153,104	1,521,074	806,944	16,753	3,607,743	
2007‡	1,148,256	166,148	1,615,276	843,146	17,819	3,790,645	
2008‡	1,134,470	186,105	1,421,597	715,587	13,107	3,470,867	
2009‡	1,178,290	196,131	1,623,764	797,989	16,077	3,812,251	
2010‡	1,223,899	213,896	1,779,931	863,100	16,761	4,097,587	
2011‡	1,285,684	229,459	1,840,174	871,126	18,008	4,244,451	
2012‡	1,302,046	227,521	1,942,530	958,095	19,239	4,449,433	
2013‡	1,365,035	228,227	2,137,385	1,028,743	20,344	4,779,735	
2014‡	1,422,537	233,867	2,227,842	1,049,840	21,637	4,955,724	
2015‡	1,462,842	242,231	2,276,004	1,021,589	22,582	5,025,249	
2016‡	1,500,319	264,489	2,390,559	1,053,070	23,234	5,231,672	

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Before 1947, the business of health insurance departments of life insurers was not included in this series. Codification effective with 2001 Annual Statement filings changed the reporting of annuities. Data represent U.S. life insurers and, as of 2003, fraternal benefit societies.

*Included with group annuities.

‡Includes fraternal benefit societies.

¹Beginning in 2001, excludes reserves for guaranteed interest contracts (GICs). Figures for GICs are shown in Table 3.3.

²Beginning in 2001, includes reserves for supplementary contracts with life contingencies; reserves for supplementary contracts without life contingencies are included in liabilities for deposit-type contracts in Table 3.3.

Table 3.7

Life Insurance Policy Reserves, by Type and Year (millions)				
Year	Individual	Group	Credit	Total
1956	\$56,875	\$787	--	\$57,662
1960	69,524	1,267	--	70,791
1965	88,784	2,011	--	90,795
1970	112,349	3,093	--	115,442
1975	144,368	4,995	\$700	150,063
1980	187,872	8,818	1,175	197,865
1981	196,407	9,379	1,200	206,986
1982	202,789	9,766	1,228	213,783
1983	209,466	10,148	1,354	220,968
1984	215,309	9,111	1,484	225,904
1985	224,204	9,927	1,723	235,854
1986	239,295	10,770	1,970	252,035
1987	263,515	10,559	2,330	276,404
1988	285,853	11,581	2,467	299,901
1989	309,168	12,569	2,441	324,178
1990	332,808	13,506	2,460	348,774
1991	355,719	13,950	2,413	372,082
1992	381,323	18,684	2,406	402,413
1993	412,542	21,336	2,415	436,293
1994	441,894	23,911	2,664	468,469
1995	480,967	27,342	2,712	511,021
1996	523,901	29,396	2,836	556,133
1997	565,601	37,787	2,872	606,260
1998	608,283	44,515	3,184	655,983
1999	645,499	56,426	3,302	705,226
2000	679,546	58,493	3,564	741,603
2001	720,583	91,563	3,398	815,544
2002	746,383	83,742	2,802	832,927
2003‡	827,892	91,049	2,200	921,142
2004‡	881,817	103,931	1,820	987,568
2005‡	923,429	104,463	1,594	1,029,486
2006‡	988,620	119,841	1,407	1,109,868
2007‡	1,011,179	135,733	1,343	1,148,256
2008‡	999,991	133,291	1,189	1,134,470
2009‡	1,043,493	133,828	969	1,178,290
2010‡	1,083,731	139,360	807	1,223,899
2011‡	1,141,356	143,661	667	1,285,684
2012‡	1,148,376	153,034	637	1,302,046
2013‡	1,197,727	166,687	620	1,365,035
2014‡	1,246,789	175,127	621	1,422,537
2015‡	1,292,526	169,683	634	1,462,842
2016‡	1,319,065	180,687	567	1,500,319

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Credit life insurance is limited to insurance on loans of 10 years' or less duration. Prior to 1973, all credit insurance was included in the individual and group categories. Data represent U.S. life insurers and, as of 2003, fraternal benefit societies.

‡Includes fraternal benefit societies.

Table 3.8

Life Insurer Liabilities and Surplus Funds, by Year (millions)

Year	Policy reserves	Liabilities for deposit-type contracts ¹	Funds set aside for policy dividends	Other obligations	Policy and contract claims ²	Mandatory securities or asset valuation reserves ³	Interest maintenance reserve	Capital and surplus funds	Total
1952	\$62,579	\$1,675	\$841	\$3,024	--	NA	--	\$5,256	\$73,375
1955	75,359	2,239	1,201	3,562	--	\$1,063	--	7,008	90,432
1960	98,473	3,381	1,780	4,851	--	1,417	--	9,674	119,576
1965	127,620	4,326	2,647	7,295	--	3,160	--	13,836	158,884
1970	167,779	6,068	3,540	10,295	--	2,249	--	17,323	207,254
1975	237,116	8,814	4,875	16,241	--	1,695	--	20,563	289,304
1980	390,339	12,727	7,659	27,701	--	6,426	--	34,358	479,210
1981	428,031	13,261	8,355	33,223	--	5,511	--	37,422	525,803
1982	479,360	13,706	8,914	38,001	--	6,731	--	41,451	588,163
1983	532,441	13,939	10,078	44,022	--	8,084	--	46,384	654,948
1984	584,193	14,395	10,745	55,955	--	7,344	--	50,347	722,979
1985	665,302	14,638	11,710	66,932	--	10,539	--	56,780	825,901
1986	761,924	15,174	11,704	69,270	--	15,330	--	64,149	937,551
1987	862,133	15,837	12,043	71,063	--	16,013	--	67,370	1,044,459
1988	968,963	16,601	12,478	75,939	--	17,939	--	74,950	1,166,870
1989	1,083,678	17,278	13,373	82,306	--	19,438	--	83,683	1,299,756
1990	1,196,967	18,000	13,921	73,164	--	14,783	--	91,373	1,408,208
1991	1,304,778	18,531	13,196	89,804	--	18,854	--	106,038	1,551,201
1992	1,407,091	19,189	13,102	85,212	--	20,801	\$3,899	115,237	1,664,531
1993	1,549,803	19,619	13,172	72,525	\$20,680	25,063	10,245	128,020	1,839,127
1994	1,644,043	19,702	13,150	74,646	21,993	25,010	6,988	136,741	1,942,273
1995	1,812,325	19,950	13,739	83,923	23,987	29,676	9,000	150,944	2,143,544
1996	1,965,790	20,441	14,863	111,629	25,399	33,202	9,360	147,240	2,327,924
1997	2,164,559	20,456	16,197	141,042	29,181	36,159	11,398	160,086	2,579,078
1998	2,377,449	20,520	16,831	155,266	31,309	37,882	14,567	172,695	2,826,520
1999	2,609,920	20,808	17,356	157,860	31,096	40,089	12,275	181,248	3,070,653
2000	2,711,851	21,149	18,137	162,300	33,161	37,893	8,746	188,499	3,181,736
2001	2,445,972	337,713	18,689	201,087	35,721	30,603	8,507	190,727	3,269,019
2002	2,507,314	363,514	18,489	220,160	35,043	22,851	10,310	202,318	3,380,000
2003‡	2,895,003	410,554	18,825	251,209	37,202	29,187	14,890	231,321	3,888,190
2004‡	3,160,497	445,431	18,416	287,629	37,880	35,125	17,764	249,643	4,252,386
2005‡	3,359,815	456,325	18,810	300,912	36,719	37,832	17,011	254,572	4,481,995
2006‡	3,607,743	487,490	19,494	345,648	39,361	43,389	13,827	265,872	4,822,824
2007‡	3,790,645	516,905	20,134	383,090	41,120	45,913	11,948	281,831	5,091,586
2008‡	3,470,867	453,860	18,582	368,303	42,493	21,243	9,521	263,278	4,648,147
2009‡	3,812,251	416,478	17,591	337,219	42,358	20,667	10,908	301,221	4,958,693
2010‡	4,097,587	420,494	17,356	367,469	42,106	31,340	16,133	318,720	5,311,204
2011‡	4,244,451	413,044	17,328	392,148	43,607	39,725	21,230	321,126	5,492,658
2012‡	4,449,433	430,531	17,150	424,835	43,281	45,411	26,339	340,442	5,777,420
2013‡	4,779,735	450,448	17,603	436,347	43,425	48,365	26,509	347,868	6,150,300
2014‡	4,955,724	468,150	18,153	472,516	43,463	52,862	26,938	368,155	6,405,961
2015‡	5,025,249	470,429	18,494	463,235	44,121	49,489	23,935	382,867	6,477,819
2016‡	5,231,672	495,471	17,942	507,710	45,795	51,514	23,702	398,209	6,772,014

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Codification effective with 2001 Annual Statement filings changed the reporting of annuities and deposit-type funds, as explained in footnotes. Data represent U.S. life insurers and, as of 2003, fraternal benefit societies.

NA: Not available

‡Includes fraternal benefit societies.

¹Prior to 2001, represents policyholder dividend accumulations. Beginning in 2001, includes liabilities for guaranteed interest contracts, supplementary contracts without life contingencies, policyholder dividend accumulations, and premium and other deposits.

²Prior to 1993, included with other obligations.

³Beginning in 1992, asset valuation reserve replaced mandatory securities valuation reserve.

Table 3.9

Capital Ratios of Life Insurers, by Year (percent)

Year	Including MSVR/AVR	Excluding MSVR/AVR	Year	Including MSVR/AVR	Excluding MSVR/AVR
1970	9.7	8.6	2001	10.1	8.7
1975	8.1	7.4	2002	9.3	8.4
1980	9.2	7.7	2003‡	9.6	8.5
1985	9.1	7.7	2004‡	9.8	8.6
1990	8.5	7.3	2005‡	9.7	8.5
1991	9.3	7.9	2006‡	10.0	8.6
1992	9.6	8.1	2007‡	10.3	8.9
1993	10.0	8.4	2008‡	8.7	8.1
1994	10.2	8.6	2009‡	9.7	9.1
1995	10.7	9.0	2010‡	10.1	9.2
1996	11.9	10.0	2011‡	9.9	8.8
1997	10.6	8.7	2012‡	10.4	9.2
1998	11.0	9.0	2013‡	10.4	9.2
1999	11.1	9.1	2014‡	10.6	9.3
2000	11.1	9.2	2015‡	10.7	9.5
			2016‡	10.6	9.4

Source: ACLI tabulations of National Association of Insurance Commissioners (NAIC) data, used by permission.

Notes: NAIC does not endorse any analysis or conclusions based on use of its data. Capital ratio is equal to capital plus surplus plus the asset valuation reserve (AVR), or mandatory securities valuation reserve (MSVR) prior to 1992, divided by general account assets. Data represent U.S. life insurers and, as of 2003, fraternal benefit societies.

‡Includes fraternal benefit societies.