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## Overview

The Pension Benefit Guaranty Corporation (PBGC) was established by the Employee Retirement Income Security Act of 1974 (ERISA) to ensure that participants in defined benefit pension plans receive their pensions if their plans terminate without sufficient assets to pay promised benefits. The PBGC administers separate insurance programs to protect participants in Single-Employer and Multiemployer plans.

The PBGC has published Pension Insurance Data Books and Tables annually since 1996 to present detailed statistics on PBGC program operations and benefit protections. Beginning with the 2015 Data Tables, PBGC is releasing the data in groups, as they become available.

Current and prior years' collection of Data Tables are available on the PBGC's website at:

[www.pbgc.gov/prac/data-books.html](http://www.pbgc.gov/prac/data-books.html)

New this year:

Six Single Employer tables have been added. These tables report data on Partial Risk Transfer Activities (Lump Sum payouts and Annuity Purchases outside of normal plan operations).

A revision was made to Table M-8 on 05/05/2020 to correct the participant count values presented for sub-industries in Manufacturing.

A revision was made to Table S-25 on 05/05/2020 to correct the payment values presented for beneficiaries by gender.

A revision was made to Table M-4 on 06/19/2020 to correct the values for periodic payments for 2010-2012.

## PBGC DATA BOOK AT A GLANCE

	Single-Employer Program <i>(Dollars in millions)</i>	Multiemployer Program <i>(Dollars in millions)</i>	Combined Programs <i>(Dollars in millions)</i>
<b>Fiscal Year 2017:</b>			
Net Financial Position	-\$10,914	-\$65,052	-\$75,966
Total Assets	\$106,196	\$2,262	\$108,458
Total Liabilities	\$117,110	\$67,314	\$184,424
Premium Revenue*	\$6,739	\$291	\$7,030
Number of Insured Plans	22,520	1,374	23,894
Number of Insured Participants	27.5 million	10.6 million	38.1 million
Change in number of plans Trusteed or Pending Trusteeship**	82	N/A	82
Change in Claims****	\$526	N/A	\$526
Total Number of Payees			
Paid Directly	842,108	23	842,131
Paid Indirectly Through Financial Assistance	N/A	63,000	63,000
Total Benefit Payments			
Paid Directly to Payees	\$5,699	***	\$5,699
Financial Assistance Granted	N/A	\$141	\$141
Number of Plans Receiving Financial Assistance	N/A	72	72
<b>Fiscal Years 1975-2017</b>			
Plans Trusteed or Pending Trusteeship	4,845	10	4,855
Amount of Claims****	\$49,529	\$31	\$49,560
Number of Plans Receiving Financial Assistance	N/A	100	100
Total Amount of Financial Assistance Granted	N/A	\$1,331	\$1,331

Sources: PBGC Pension Insurance Data Book Tables S-1, S-2, S-3, S-20, S-21, S-30, S-31, M-1, M-2, M-3, M-4, M-5 and M-6.

\*Beginning in FY 2009, PBGC started to report premium income net of bad debt expense for premium, interest, and penalties.

\*\*In FY 2014 this item was renamed to more accurately reflect the figure presented. It was previously referred to as "New Plans Trusteed or Pending Trusteeship".

\*\*\*Less than \$500,000.

\*\*\*\*For purposes of this chart, claims are defined to include the excess of liabilities over assets without regard to recoveries from plan sponsors.

Due to rounding of individual items, numbers may not add up exactly across columns.

**Table S-1  
Net Financial Position (1980-2018)  
Single-Employer Program**

<b>Fiscal Year</b>	<b>Assets (in millions)</b>	<b>Liabilities (in millions)</b>	<b>Net Position (in millions)</b>
1980	\$430	\$524	-\$95
1985	1,155	2,480	-1,325
1990	2,797	4,710	-1,913
1995	10,371	10,686	-315
1996	12,043	11,174	869
1997	15,314	11,833	3,481
1998	17,631	12,619	5,012
1999	18,431	11,393	7,038
2000	20,830	11,126	9,704
2001	21,768	14,036	7,732
2002	25,430	29,068	-3,638
2003	34,016	45,254	-11,238
2004	38,993	62,298	-23,305
2005	56,470	79,246	-22,776
2006	59,972	78,114	-18,142
2007	67,241	80,352	-13,111
2008	64,612	75,290	-10,678
2009	68,736	89,813	-21,077
2010	77,463	99,057	-21,594
2011	78,960	102,226	-23,266
2012	82,973	112,115	-29,142
2013	83,227	110,608	-27,381
2014	88,013	107,351	-19,338
2015	85,735	109,800	-24,065
2016	97,342	117,922	-20,580
2017	106,196	117,110	-10,914
2018	\$109,941	\$107,502	\$2,439

Source: PBGC Annual Reports  
Due to rounding of individual items, numbers may not add up across columns.

**Table S-2  
PBGC Premium Revenue, Benefit Payments, and Expenses (1980-2018)  
Single-Employer Program**

Fiscal Year	Total Premium Revenue (in millions)	Benefit Payments (in millions)	Administrative & Investment Expenses (in millions)	Premiums Less Benefits Paid and Expenses (in millions)
1980	\$71	\$37	\$20	\$14
1985	82	170	33	-121
1990	659	369	63	227
1995	838	761	138	-61
1996	1,146	790	150	206
1997	1,067	823	155	89
1998	966	847	158	-39
1999	902	901	161	-160
2000	807	902	167	-262
2001	821	1,042	184	-405
2002	787	1,537	225	-975
2003	948	2,488	290	-1,830
2004	1,458	3,006	288	-1,836
2005	1,451	3,685	342	-2,576
2006	1,442	4,082	405	-3,045
2007	1,476	4,266	378	-3,168
2008	1,402	4,292	400	-3,352
2009*	1,822	4,478	417	-3,073
2010	2,231	5,467	449	-3,685
2011	2,072	5,340	424	-3,692
2012	2,642	5,384	443	-3,185
2013	2,943	5,449	434	-2,940
2014	3,812	5,522	464	-2,174
2015	4,138	5,570	446	-1,878
2016	6,379	5,659	465	255
2017	6,739	5,699	481	559
2018	\$5,518	\$5,792	\$489	-\$763

Source: PBGC Annual Reports

Due to rounding of individual items, numbers may not add up across columns.

\*Beginning in 2009, PBGC has reported premium income net of bad debt expense for premium, interest, and penalties.

**Table S-3**  
**PBGC Terminations and Claims (1975-2017)**  
**Single-Employer Program**

Fiscal Year	Number of Plans		Trusteed Termination Data				
	Standard Terminations Filings	Trusteed Terminations*	Assets (in millions)	Liabilities (in millions)	Claims (in millions)	Recoveries (in millions)	Net Claims (in millions)
1975 - 1979	7,955	586	\$145	\$397	\$252	\$56	\$196
1980 - 1984	28,025	622	515	1,257	743	158	585
1985 - 1989	42,599	537	650	2,351	1,702	161	1,541
1990 - 1994	24,171	694	2,274	5,117	2,843	448	2,395
1995 - 1999	15,089	444	1,414	2,197	783	77	705
2000	1,892	74	267	368	101	15	86
2001	1,748	117	2,535	3,686	1,151	185	965
2002	1,452	186	4,520	8,309	3,790	272	3,517
2003	1,203	172	6,934	13,409	6,474	210	6,264
2004	1,198	164	2,833	6,117	3,285	529	2,756
2005	1,108	129	10,318	21,566	11,248	1,799	9,449
2006	1,247	89	2,372	4,589	2,217	1,329	888
2007	1,233	78	630	974	344	31	313
2008	1,405	83	536	816	279	42	237
2009	1,294	191	10,097	17,377	7,280	1,290	5,990
2010	1,308	156	1,327	2,501	1,173	176	997
2011	1,400	100	857	1,539	682	81	602
2012	1,332	117	796	1,727	931	88	843
2013	1,481	92	1,436	2,882	1,445	107	1,339
2014	1,373	61	1,099	1,880	781	51	730
2015	1,197	41	680	1,335	654	12	642
2016	1,225	36	1,205	2,049	845	1	844
2017	1,350	37	370	761	391	6	385
<b>Total</b>	<b>142,285</b>	<b>4,845</b>	<b>\$53,823</b>	<b>\$103,352</b>	<b>\$49,529</b>	<b>\$7,228</b>	<b>\$42,302</b>

Source: PBGC Fiscal Year Closing File

Due to rounding of individual items, numbers may not add up across columns.

\*Trusteed terminations include plans pending trusteeship.

Claims figures shown in this table are calculated on a plan basis and identified with fiscal year of plan termination for each plan.

Claim values and distributions are subject to change as PBGC completes reviews.

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trusteed plans.

The annual numbers of trusteed terminations shown in this table may differ from those reported elsewhere as they reflect the fiscal year of plan termination rather than the fiscal year in which the loss was incurred.

**Table S-4  
PBGC Claims (1975-2017)  
Single-Employer Program**

Fiscal Year	Claims	Claims of Top 10 Firms and Percent of Total Annual Claims		Other Claims and Percent of Total Annual Claims	
1975 - 1979	\$252,081,594	---	---	\$252,081,594	100.0%
1980 - 1984	742,708,476	---	---	742,708,476	100.0%
1985 - 1989	1,701,718,991	---	---	1,701,718,991	100.0%
1990 - 1994	2,841,969,959	\$841,082,434	29.6%	2,000,887,525	70.4%
1995	162,127,459	---	---	162,127,459	100.0%
1996	168,583,028	---	---	168,583,028	100.0%
1997	207,994,973	---	---	207,994,973	100.0%
1998	75,461,518	---	---	75,461,518	100.0%
1999	168,647,557	---	---	168,647,557	100.0%
2000	101,399,472	---	---	101,399,472	100.0%
2001	1,150,650,416	668,377,105	58.1%	482,273,310	41.9%
2002	3,789,520,834	2,081,361,846	54.9%	1,708,158,988	45.1%
2003	6,474,348,737	5,550,023,175	85.7%	924,325,561	14.3%
2004	3,285,117,733	692,584,383	21.1%	2,592,533,351	78.9%
2005	11,248,040,048	9,486,441,042	84.3%	1,761,599,006	15.7%
2006	2,216,837,476	1,710,043,419	77.1%	506,794,057	22.9%
2007	344,090,658	---	---	344,090,658	100.0%
2008	280,629,964	---	---	280,629,964	100.0%
2009	7,278,561,073	4,820,168,215	66.2%	2,458,392,858	33.8%
2010	1,171,534,979	---	---	1,171,534,979	100.0%
2011	671,340,502	---	---	671,340,502	100.0%
2012	927,985,023	---	---	927,985,023	100.0%
2013	1,451,690,620	---	---	1,451,690,620	100.0%
2014	791,054,076	---	---	791,054,076	100.0%
2015	689,647,478	---	---	689,647,478	100.0%
2016	944,330,784	---	---	944,330,784	100.0%
2017	391,096,322	---	---	391,096,322	100.0%
<b>Total</b>	<b>\$49,529,169,749</b>	<b>\$25,850,081,619</b>	<b>52.2%</b>	<b>\$23,679,088,131</b>	<b>47.8%</b>

Source: PBGC Fiscal Year Closing File

For purposes of this chart, claims are defined to include the excess of liabilities over assets without regard to recoveries from plan sponsors.

Annual claims for Top 10 firms are summations of all claims in that fiscal year associated with the Top 10 firms. See Table S-5 for a list of the Top 10 firms with the largest claim values.

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.



**Table S-5  
Top 10 Firms Presenting Claims (1975-2017)  
Single-Employer Program**

Top 10 Firms	Number of Plans	Fiscal Year(s) of Plan Termination(s)	Claims (by firm)	Vested Participants	Average Claim Per Vested Participant	Percent of Total Claims
1. United Airlines	4	2005	\$7,304,186,216	122,483	\$59,634	14.8%
2. Delphi	6	2009	4,820,168,215	66,614	72,360	9.7%
3. Bethlehem Steel	1	2003	3,702,771,655	92,174	40,172	7.5%
4. US Airways	4	2003, 2005	2,708,976,605	60,585	44,714	5.5%
5. LTV Steel*	6	2002, 2003, 2004	2,134,985,884	83,782	25,483	4.3%
6. Delta Air Lines	1	2006	1,710,043,418	13,237	129,187	3.5%
7. National Steel	7	2003	1,319,009,116	35,152	37,523	2.7%
8. Pan American Air	3	1991, 1992	841,082,434	53,624	15,685	1.7%
9. Trans World Airlines	2	2001	668,377,105	32,197	20,759	1.4%
10. Weirton Steel	1	2004	640,480,970	9,825	65,189	1.3%
<b>Top 10 Total</b>	<b>35</b>		<b>\$25,850,081,619</b>	<b>569,673</b>	<b>\$45,377</b>	<b>52.2%</b>
<b>All Other Total</b>	<b>4,810</b>		<b>23,679,088,131</b>	<b>1,719,418</b>	<b>13,772</b>	<b>47.8%</b>
<b>Total</b>	<b>4,845</b>		<b>\$49,529,169,749</b>	<b>2,289,091</b>	<b>\$21,637</b>	<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Data in this table have been calculated on a firm basis and, except as noted, include all trustee plans of each firm.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers and percentages may not add up to totals.

Vested participant count is as of the date of plan termination.

\* Does not include 1986 termination of a Republic Steel plan sponsored by LTV.

**Table S-6**  
**PBGC Trusted Terminations by Fiscal Year and Size of Claim (1975-2017)**  
**Single-Employer Program**

Fiscal Year	Size of Claim					Total Plans	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
1975 - 1979	545	36	5	---	---	586	12.1%
1980 - 1984	539	65	18	---	---	622	12.8%
1985 - 1989	450	67	15	5	---	537	11.1%
1990 - 1994	534	137	17	6	---	694	14.3%
1995 - 1999	310	118	16	---	---	444	9.2%
2000 - 2004	360	245	83	23	2	713	14.7%
2005 - 2009	236	245	70	12	7	570	11.8%
2010	69	66	19	2	---	156	3.2%
2011	33	50	17	---	---	100	2.1%
2012	40	60	16	1	---	117	2.4%
2013	29	46	18	3	---	96	2.0%
2014	15	35	15	1	---	66	1.4%
2015	12	28	6	2	---	48	1.0%
2016	25	23	7	4	---	59	1.2%
2017	12	19	5	1	---	37	0.8%
<b>Total Plans</b>	<b>3,209</b>	<b>1,240</b>	<b>327</b>	<b>60</b>	<b>9</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>66.2%</b>	<b>25.6%</b>	<b>6.8%</b>	<b>1.2%</b>	<b>0.2%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Values and distributions are subject to change as PBGC completes reviews and establishes termination dates.

Claim values and distributions are subject to change as PBGC completes reviews.

**Table S-7  
PBGC Claims by Fiscal Year and Size of Claim (1975-2017)  
Single-Employer Program**

Fiscal Year	Size of Claim					Total Claims	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
1975 - 1979	\$62,068,755	\$89,626,004	\$100,386,835	---	---	\$252,081,594	0.5%
1980 - 1984	80,296,905	191,956,080	470,455,491	---	---	742,708,476	1.5%
1985 - 1989	74,853,432	219,557,666	424,362,735	\$982,945,158	---	1,701,718,991	3.4%
1990 - 1994	125,685,484	449,076,661	447,349,948	1,819,857,866	---	2,841,969,959	5.7%
1995 - 1999	94,471,553	307,763,075	380,579,908	---	---	782,814,535	1.6%
2000 - 2004	120,654,239	812,081,224	2,455,816,693	6,015,707,860	\$5,396,777,176	14,801,037,191	29.9%
2005 - 2009	93,304,047	796,837,712	2,199,370,004	4,485,915,963	13,792,731,493	21,368,159,219	43.1%
2010	29,979,930	208,316,963	562,526,310	370,711,777	---	1,171,534,979	2.4%
2011	17,500,236	142,905,111	510,935,156	---	---	671,340,502	1.4%
2012	16,170,517	185,477,782	614,358,508	111,978,216	---	927,985,023	1.9%
2013	15,562,958	160,825,620	616,614,270	658,687,771	---	1,451,690,620	2.9%
2014	8,360,248	94,786,562	415,311,230	272,596,036	---	791,054,076	1.6%
2015	5,384,595	106,181,791	112,939,684	465,141,408	---	689,647,478	1.4%
2016	11,361,873	77,753,969	234,003,013	621,211,930	---	944,330,784	1.9%
2017	4,002,842	48,164,979	191,447,151	147,481,349	---	391,096,322	0.8%
<b>Total</b>	<b>\$759,657,612</b>	<b>\$3,891,311,197</b>	<b>\$9,736,456,937</b>	<b>\$15,952,235,334</b>	<b>\$19,189,508,669</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>1.5%</b>	<b>7.9%</b>	<b>19.7%</b>	<b>32.2%</b>	<b>38.7%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-8  
PBGC Trusteed Plans by Fiscal Year and Funded Ratio (1975-2017)  
Single-Employer Program**

Fiscal Year	Funded Ratio				Total Plans	Percent of Total
	Less Than 25%	25% - 49%	50% - 74%	75% or More		
1975 - 1979	163	149	126	148	586	12.1%
1980 - 1984	220	134	135	133	622	12.8%
1985 - 1989	170	112	127	128	537	11.1%
1990 - 1994	190	153	181	170	694	14.3%
1995 - 1999	118	101	139	86	444	9.2%
2000 - 2004	118	202	248	145	713	14.7%
2005 - 2009	107	160	224	79	570	11.8%
2010	32	41	75	8	156	3.2%
2011	20	33	44	3	100	2.1%
2012	30	53	32	2	117	2.4%
2013	27	37	28	4	96	2.0%
2014	14	23	27	2	66	1.4%
2015	12	19	17	---	48	1.0%
2016	14	23	20	2	59	1.2%
2017	15	9	11	2	37	0.8%
<b>Total</b>	<b>1,250</b>	<b>1,249</b>	<b>1,434</b>	<b>912</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>25.8%</b>	<b>25.8%</b>	<b>29.6%</b>	<b>18.8%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File  
Due to rounding of individual items, percentages may not add up to 100%.

**Table S-9  
PBGC Claims by Fiscal Year and Funded Ratio (1975-2017)  
Single-Employer Program**

Fiscal Year	Funded Ratio				Total Claims	Percent of Total
	Less Than 25%	25% - 49%	50% - 74%	75% or More		
1975 - 1979	\$170,657,342	\$54,478,604	\$20,968,055	\$5,977,592	\$252,081,594	0.5%
1980 - 1984	303,021,991	308,873,598	119,950,576	10,862,310	742,708,476	1.5%
1985 - 1989	877,097,798	676,465,405	141,070,799	7,084,990	1,701,718,991	3.4%
1990 - 1994	1,664,086,089	326,486,171	767,438,470	83,959,229	2,841,969,959	5.7%
1995 - 1999	103,144,596	184,382,061	339,689,572	155,598,306	782,814,535	1.6%
2000 - 2004	714,371,763	7,985,843,172	5,917,700,884	183,121,372	14,801,037,191	29.9%
2005 - 2009	233,039,177	9,439,350,459	11,532,795,037	162,974,545	21,368,159,218	43.1%
2010	56,561,074	286,679,224	825,850,770	2,443,912	1,171,534,979	2.4%
2011	108,478,530	160,686,341	390,826,492	11,349,139	671,340,502	1.4%
2012	49,091,166	632,451,627	246,221,191	221,039	927,985,023	1.9%
2013	149,394,625	516,029,447	785,829,409	437,138	1,451,690,620	2.9%
2014	30,347,957	171,517,856	583,531,213	5,657,050	791,054,076	1.6%
2015	31,727,384	443,942,668	213,977,426	---	689,647,478	1.4%
2016	17,744,579	288,472,214	632,288,453	5,825,539	944,330,784	1.9%
2017	38,079,653	50,107,963	302,830,398	78,308	391,096,322	0.8%
<b>Total</b>	<b>\$4,546,843,725</b>	<b>\$21,525,766,809</b>	<b>\$22,820,968,744</b>	<b>\$635,590,471</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>9.2%</b>	<b>43.5%</b>	<b>46.1%</b>	<b>1.3%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-10  
PBGC Trusted Plans by Size of Claim and Funded Ratio (1975-2017)  
Single-Employer Program**

Funded Ratio	Size of Claim					Totals Plans	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
Less Than 25%	914	282	45	9	---	1,250	25.8%
25% - 49%	691	409	123	22	4	1,249	25.8%
50% - 74%	785	468	147	29	5	1,434	29.6%
75% or More	819	81	12	---	---	912	18.8%
<b>Total</b>	<b>3,209</b>	<b>1,240</b>	<b>327</b>	<b>60</b>	<b>9</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>66.2%</b>	<b>25.6%</b>	<b>6.8%</b>	<b>1.2%</b>	<b>0.2%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claims values and distributions are subject to change as PBGC completes reviews.

**Table S-11  
PBGC Claims by Size of Claim and Funded Ratio (1975-2017)  
Single-Employer Program**

Funded Ratio	Size of Claim					Total Claims	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
Less Than 25%	\$255,161,871	\$753,365,825	\$1,240,937,833	\$2,297,378,197	---	\$4,546,843,725	9.2%
25% - 49%	206,621,629	1,368,062,367	4,002,515,968	6,478,332,001	9,470,234,844	21,525,766,809	43.5%
50% - 74%	219,524,346	1,536,623,433	4,169,022,006	7,176,525,136	9,719,273,824	22,820,968,744	46.1%
75% or More	78,349,767	233,259,573	323,981,131	---	---	635,590,471	1.3%
<b>Total</b>	<b>\$759,657,612</b>	<b>\$3,891,311,197</b>	<b>\$9,736,456,937</b>	<b>\$15,952,235,334</b>	<b>\$19,189,508,668</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>1.5%</b>	<b>7.9%</b>	<b>19.7%</b>	<b>32.2%</b>	<b>38.7%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-12  
Average Claim per Vested Participant by Plan Size (1975-2017)  
Single-Employer Program**

Number of Plan Participants	Vested Participants	Number of Plans	Claims		Average Claim Per Participant	Claims* (2017 Dollars)		Average Claim Per Participant (2017 Dollars)
			Amount	Percent of Total		Amount	Percent of Total	
Fewer Than 100	103,810	2,868	\$1,177,749,281	2.4%	\$11,345	\$1,639,373,538	2.5%	\$15,792
100-999	517,104	1,638	5,626,702,506	11.4%	10,881	8,120,954,645	12.3%	15,705
1,000-4,999	536,373	264	8,731,304,385	17.6%	16,278	12,193,964,307	18.5%	22,734
5,000-9,999	274,194	38	6,432,588,452	13.0%	23,460	8,634,000,058	13.1%	31,489
10,000 or More	857,610	37	27,560,825,125	55.7%	32,137	35,455,616,449	53.7%	41,342
<b>Total</b>	<b>2,289,091</b>	<b>4,845</b>	<b>\$49,529,169,749</b>	<b>100.0%</b>	<b>\$21,637</b>	<b>\$66,043,908,996</b>	<b>100.0%</b>	<b>\$28,852</b>

Sources: PBGC Fiscal Year Closing File and Bureau of Labor Statistics

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Claim calculations represent aggregated and average counts of plans, claims, and participants over the stated period.

The number of vested participants and claim values are calculated as of date of plan termination.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

\*Adjusted Claims are calculated using Consumer Price Index - Urban Consumers for the fiscal year.



**Table S-13  
PBGC Trusteed Plans by Fiscal Year and Plan Size (1975-2017)  
Single-Employer Program**

Fiscal Year	Number of Plan Participants						Total Plans	Percent of Total
	Fewer Than 25	25 - 99	100 - 999	1,000 - 4,999	5,000 - 9,999	10,000 or More		
1975 - 1979	193	223	159	11	---	---	586	12.1%
1980 - 1984	189	242	171	20	---	---	622	12.8%
1985 - 1989	156	201	161	14	4	1	537	11.1%
1990 - 1994	157	252	260	21	1	3	694	14.3%
1995 - 1999	98	164	147	31	3	1	444	9.2%
2000 - 2004	115	196	312	61	17	12	713	14.7%
2005 - 2009	115	156	219	57	5	18	570	11.8%
2010	38	53	53	10	2	---	156	3.2%
2011	22	35	33	10	---	---	100	2.1%
2012	36	38	36	6	1	---	117	2.4%
2013	30	31	25	8	2	---	96	2.0%
2014	16	19	26	4	---	1	66	1.4%
2015	15	14	16	2	1	---	48	1.0%
2016	21	16	15	4	2	1	59	1.2%
2017	12	15	5	5	---	---	37	0.8%
<b>Total</b>	<b>1,213</b>	<b>1,655</b>	<b>1,638</b>	<b>264</b>	<b>38</b>	<b>37</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>25.0%</b>	<b>34.2%</b>	<b>33.8%</b>	<b>5.5%</b>	<b>0.8%</b>	<b>0.8%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File  
Distributions are subject to change as PBGC completes reviews and establishes termination dates.  
Due to rounding of individual items, percentages may not add up to 100%.

**Table S-14  
PBGC Claims by Fiscal Year and Plan Size (1975-2017)  
Single-Employer Program**

Fiscal Year	Number of Plan Participants						Total Claims	Percent of Total
	Fewer Than 25	25 - 99	100 - 999	1,000 - 4,999	5,000 - 9,999	10,000 or More		
1975 - 1979	\$6,246,624	\$20,666,331	\$131,536,741	\$93,631,897	---	---	\$252,081,594	0.5%
1980 - 1984	15,011,718	40,210,162	257,323,475	430,163,121	---	---	742,708,476	1.5%
1985 - 1989	8,553,517	42,641,404	307,011,427	360,567,484	\$738,503,990	\$244,441,168	1,701,718,991	3.4%
1990 - 1994	15,759,225	72,912,208	561,516,393	883,782,003	62,798,863	1,245,201,267	2,841,969,959	5.7%
1995 - 1999	14,384,359	64,119,880	291,527,452	281,353,421	102,443,025	28,986,398	782,814,535	1.6%
2000 - 2004	22,619,910	130,974,701	1,304,916,479	2,374,208,245	3,045,986,954	7,922,330,903	14,801,037,191	29.9%
2005 - 2009	50,772,759	138,782,227	997,173,340	1,694,892,979	747,470,004	17,739,067,909	21,368,159,218	43.1%
2010	13,185,711	70,683,509	358,027,824	404,484,525	325,153,410	---	1,171,534,979	2.4%
2011	18,680,567	51,823,865	220,384,560	380,451,511	---	---	671,340,502	1.4%
2012	24,205,172	78,091,027	356,499,122	357,211,486	111,978,216	---	927,985,023	1.9%
2013	31,941,618	73,535,009	271,504,398	516,285,854	558,423,741	---	1,451,690,620	2.9%
2014	17,348,397	29,975,742	267,670,049	203,463,852	---	272,596,036	791,054,076	1.6%
2015	14,540,818	33,058,776	146,244,484	147,162,697	348,640,704	---	689,647,478	1.4%
2016	11,269,525	28,599,935	123,892,448	281,177,888	391,189,545	108,201,444	944,330,784	1.9%
2017	11,594,789	25,559,798	31,474,314	322,467,422	---	---	391,096,322	0.8%
<b>Total</b>	<b>\$276,114,708</b>	<b>\$901,634,573</b>	<b>\$5,626,702,506</b>	<b>\$8,731,304,385</b>	<b>\$6,432,588,452</b>	<b>\$27,560,825,126</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>0.6%</b>	<b>1.8%</b>	<b>11.4%</b>	<b>17.6%</b>	<b>13.0%</b>	<b>55.7%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews and establishes termination dates.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-15**  
**PBGC Trusteed Plans by Size of Claim and Plan Size (1975-2017)**  
**Single-Employer Program**

Number of Plan Participants	Size of Claim					Total Plans	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
Fewer Than 25	1,147	66	---	---	---	1,213	25.0%
25 - 99	1,382	271	2	---	---	1,655	34.2%
100 - 999	667	834	137	---	---	1,638	33.8%
1,000 - 4,999	13	68	167	16	---	264	5.5%
5,000 - 9,999	---	1	14	23	---	38	0.8%
10,000 or More	---	---	7	21	9	37	0.8%
<b>Total</b>	<b>3,209</b>	<b>1,240</b>	<b>327</b>	<b>60</b>	<b>9</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>66.2%</b>	<b>25.6%</b>	<b>6.8%</b>	<b>1.2%</b>	<b>0.2%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trusteed plans.

Claim values and distributions are subject to change as PBGC completes reviews.

**Table S-16**  
**PBGC Claims by Size of Claim and Plan Size (1975-2017)**  
**Single-Employer Program**

Number of Plan Participants	Size of Claim					Total Plans	Percent of Total
	Less Than \$1 Million	\$1 - \$9 Million	\$10 - \$99 Million	\$100 - \$999 Million	\$1 Billion or More		
Fewer Than 25	\$162,770,843	\$113,343,865	---	---	---	\$276,114,708	0.6%
25 - 99	336,026,436	541,313,951	\$24,294,186	---	---	901,634,573	1.8%
100 - 999	254,443,242	2,897,238,125	2,475,021,138	---	---	5,626,702,506	11.4%
1,000 - 4,999	6,417,091	332,994,421	6,115,723,237	\$2,276,169,636	---	8,731,304,385	17.6%
5,000 - 9,999	---	6,420,835	782,574,767	5,643,592,850	---	6,432,588,452	13.0%
10,000 or More	---	---	338,843,609	8,032,472,848	\$19,189,508,668	27,560,825,125	55.7%
<b>Total</b>	<b>\$759,657,612</b>	<b>\$3,891,311,197</b>	<b>\$9,736,456,937</b>	<b>\$15,952,235,334</b>	<b>\$19,189,508,668</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>1.5%</b>	<b>7.9%</b>	<b>19.7%</b>	<b>32.2%</b>	<b>38.7%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-17  
PBGC Trusteed Plans by Funded Ratio and Plan Size (1975-2017)  
Single-Employer Program**

Number of Plan Participants	Funded Ratio				Total Plans	Percent of Total
	Less Than 25%	25%-49%	50%-74%	75% or More		
Fewer Than 25	465	260	213	275	1,213	25.0%
25-99	472	439	435	309	1,655	34.2%
100-999	274	442	640	282	1,638	33.8%
1,000-4,999	34	81	110	39	264	5.5%
5,000-9,999	4	16	15	3	38	0.8%
10,000 or More	1	11	21	4	37	0.8%
<b>Total</b>	<b>1,250</b>	<b>1,249</b>	<b>1,434</b>	<b>912</b>	<b>4,845</b>	
<b>Percent of Total</b>	<b>25.8%</b>	<b>25.8%</b>	<b>29.6%</b>	<b>18.8%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

**Table S-18  
PBGC Claims by Funded Ratio and Plan Size (1975-2017)  
Single-Employer Program**

Number of Plan Participants	Funded Ratio				Total Claims	Percent of Total
	Less Than 25%	25%-49%	50%-74%	75% or More		
Fewer Than 25	\$153,523,663	\$78,260,272	\$39,619,164	\$4,711,609	\$276,114,708	0.6%
25-99	333,979,072	322,105,496	223,354,299	22,195,707	901,634,573	1.8%
100-999	881,019,101	2,100,547,310	2,451,410,557	193,725,538	5,626,702,506	11.4%
1,000-4,999	1,572,245,731	3,283,637,947	3,704,230,774	171,189,933	8,731,304,385	17.6%
5,000-9,999	826,538,771	3,015,019,353	2,461,867,370	129,162,959	6,432,588,452	13.0%
10,000 or More	779,537,389	12,726,196,432	13,940,486,580	114,604,725	27,560,825,125	55.7%
<b>Total</b>	<b>\$4,546,843,725</b>	<b>\$21,525,766,809</b>	<b>\$22,820,968,744</b>	<b>\$635,590,471</b>	<b>\$49,529,169,749</b>	
<b>Percent of Total</b>	<b>9.2%</b>	<b>43.5%</b>	<b>46.1%</b>	<b>1.3%</b>		<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Claim values and distributions are subject to change as PBGC completes reviews.

Due to rounding of individual items, numbers may not add up to totals.

**Table S-19**  
**PBGC Claims by Industry (1975-2017)**  
**Single-Employer Program**

Industry	Total Claims		Plans		Vested Participants	
<b>AGRICULTURE, MINING, AND CONSTRUCTION</b>	<b>\$771,674,437</b>	<b>1.6%</b>	<b>277</b>	<b>5.7%</b>	<b>46,989</b>	<b>2.1%</b>
<b>MANUFACTURING</b>	<b>27,920,133,673</b>	<b>56.4%</b>	<b>2,861</b>	<b>59.1%</b>	<b>1,347,209</b>	<b>58.9%</b>
Chemical and Allied Products	316,854,328	0.6%	62	1.3%	17,086	0.8%
Computer and Electronic Products	---	0.0%	---	0.0%	---	0.0%
Electrical Equipment	129,115,288	0.3%	76	1.6%	14,161	0.6%
Fabricated Metal Products	1,841,921,206	3.7%	677	14.0%	134,908	5.9%
Food and Tobacco Products	491,565,027	1.0%	184	3.8%	53,441	2.3%
Machinery Manufacturing	1,307,648,594	2.6%	296	6.1%	98,024	4.3%
Motor Vehicle Equipment	5,472,943,405	11.1%	135	2.8%	129,457	5.7%
Paper Manufacturing	305,178,317	0.6%	122	2.5%	23,618	1.0%
Petroleum and Coal Products	59,734,235	0.1%	15	0.3%	5,637	0.3%
Primary Metals	12,595,137,878	25.4%	356	7.4%	430,620	18.8%
Other Manufacturing	5,400,035,395	10.9%	938	19.4%	440,257	19.2%
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>14,452,041,324</b>	<b>29.2%</b>	<b>212</b>	<b>4.4%</b>	<b>379,868</b>	<b>16.6%</b>
Air Transportation	14,010,705,239	28.3%	44	0.9%	340,734	14.9%
Other Transportation	438,185,083	0.9%	158	3.3%	38,718	1.7%
Public Utilities	3,151,002	0.0%	10	0.2%	416	0.0%
<b>INFORMATION</b>	<b>488,169,626</b>	<b>1.0%</b>	<b>73</b>	<b>1.5%</b>	<b>21,170</b>	<b>0.9%</b>
<b>WHOLESALE TRADE</b>	<b>583,043,078</b>	<b>1.2%</b>	<b>299</b>	<b>6.2%</b>	<b>44,509</b>	<b>1.9%</b>
<b>RETAIL TRADE</b>	<b>1,083,270,626</b>	<b>2.2%</b>	<b>346</b>	<b>7.1%</b>	<b>179,214</b>	<b>7.8%</b>
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>1,094,623,357</b>	<b>2.2%</b>	<b>165</b>	<b>3.4%</b>	<b>84,648</b>	<b>3.7%</b>
<b>SERVICES</b>	<b>2,949,497,587</b>	<b>6.0%</b>	<b>537</b>	<b>11.1%</b>	<b>178,206</b>	<b>7.8%</b>
Health Care	1,686,247,982	3.4%	168	3.5%	102,186	4.5%
Other Services	1,263,249,605	2.6%	369	7.6%	76,020	3.3%
<b>NON-PROFIT ORGANIZATIONS</b>	<b>186,716,041</b>	<b>0.4%</b>	<b>75</b>	<b>1.6%</b>	<b>7,278</b>	<b>0.3%</b>
<b>TOTAL</b>	<b>\$49,529,169,749</b>	<b>100.0%</b>	<b>4,845</b>	<b>100.0%</b>	<b>2,289,091</b>	<b>100.0%</b>

Source: PBGC Fiscal Year Closing File

Values presented for Claims are the difference between liabilities and assets unless noted as Net Claims, which also consider recoveries from trustee plans.

Values and distributions are subject to change as PBGC completes reviews.

Industry classifications for PBGC claims are based on the principal business activity codes used in the North American Industry Classification System.

Due to rounding of individual items, numbers and percentages may not add up to totals.

**Table S-20**  
**PBGC Benefit Payments, Payees, and Deferred Payees (1980-2017)**  
**Single-Employer Program**

Fiscal Year	Periodic Pension Payments				Lump-Sum Payments			All Payments		Deferred Payees (in thousands)
	Total (in millions)	Payees in Year (in thousands)	Average Monthly Payment	Median Monthly Payment	Total (in millions)	Payees in Year (in thousands)	Average Payment (per payee)	Total (in millions)	Payees in Year (in thousands)	
1980	\$34	28	\$124	\$91	\$3	2	\$1,623	\$37	30	25
1985	166	75	226	128	4	2	1,782	170	77	92
1990	356	110	262	184	13	6	2,437	369	116	85
1995	739	182	344	232	22	6	3,335	761	187	163
1996	770	199	328	225	20	7	2,757	790	206	182
1997	800	204	316	212	23	9	2,629	823	213	202
1998	826	208	313	208	21	9	2,198	847	216	213
1999	844	214	311	208	56	16	3,553	901	229	225
2000	831	226	309	206	71	19	3,726	902	243	226
2001	954	266	325	208	88	18	4,817	1,042	283	246
2002	1,458	343	383	242	79	21	3,757	1,537	362	326
2003	2,401	457	453	275	87	22	4,220	2,488	477	375
2004	2,918	517	475	281	88	21	4,229	3,006	533	424
2005	3,607	683	487	286	78	17	4,633	3,685	698	489
2006	4,011	612	531	296	71	13	5,145	4,082	622	520
2007	4,179	630	539	281	87	17	5,154	4,266	645	534
2008	4,211	639	534	289	81	17	4,828	4,292	653	495
2009	4,409	743	598	305	69	12	4,289	4,478	754	565
2010	5,361	746	594	316	106	16	6,661	5,467	758	614
2011	5,172	775	579	287	168	48	3,517	5,340	781	595
2012	5,299	781	559	284	85	39	2,198	5,384	786	590
2013	5,386	799	539	283	63	39	1,600	5,449	801	600
2014	5,436	812	539	283	86	39	2,014	5,522	815	488
2015	5,486	825	536	279	84	40	2,054	5,570	828	560
2016	5,545	837	535	278	113	36	3,031	5,659	842	559
2017	\$5,578	839	\$535	\$278	\$121	40	\$2,535	\$5,699	842	552

Lump-sum payments include cash-outs of pensions with de minimis present values and back payments to current pensioners.

Since some payees received both pensions and lump-sum payments, total number of payees may be less than the sum of pensioners and lump-sum recipients.

Excludes participants in plans that are in probable termination status as of end of fiscal year.

Due to rounding of individual items, numbers may not add up across columns.



**Table S-21**  
**PBGC Payees and Benefit Payments by Date of Plan Termination**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Fiscal Year of Plan Termination	2017 Payees		Benefit Payments in 2017 <i>(in millions)</i>		Average Monthly Pension	Median Monthly Pension	Deferred Payees in 2017 <i>(in thousands)</i>
Prior to 1980	2,670	0.3%	\$3	0.1%	\$102	\$81	1
1980 to 1984	14,353	1.7%	33	0.6%	190	157	2
1985 to 1989	26,053	3.1%	84	1.5%	257	193	4
1990 to 1994	77,399	9.2%	311	5.4%	317	235	15
1995	6,917	0.8%	26	0.5%	298	170	2
1996	8,602	1.0%	24	0.4%	222	132	2
1997	12,137	1.4%	41	0.7%	271	198	4
1998	4,260	0.5%	14	0.2%	263	163	4
1999	9,213	1.1%	29	0.5%	248	161	9
2000	7,805	0.9%	24	0.4%	242	137	3
2001	46,678	5.5%	264	4.6%	448	269	19
2002	87,974	10.4%	479	8.4%	436	263	31
2003	92,370	11.0%	800	14.0%	692	396	22
2004	68,479	8.1%	345	6.1%	401	239	34
2005	113,318	13.5%	1,086	19.1%	763	455	93
2006	17,719	2.1%	250	4.4%	1,123	482	12
2007	12,895	1.5%	56	1.0%	350	195	11
2008	9,859	1.2%	49	0.9%	394	217	32
2009	108,542	12.9%	1,079	18.9%	776	439	99
2010	26,412	3.1%	148	2.6%	436	261	23
2011	13,737	1.6%	80	1.4%	461	277	22
2012	11,729	1.4%	73	1.3%	500	244	18
2013	17,031	2.0%	128	2.3%	600	373	32
2014	19,091	2.3%	77	1.3%	359	183	15
2015	10,053	1.2%	63	1.1%	502	295	24
2016	15,027	1.8%	74	1.3%	454	210	11
2017	1,785	0.2%	10	0.2%	977	764	8
<b>Subtotal</b>	<b>839,259</b>	<b>99.7%</b>	<b>\$5,649</b>	<b>99.1%</b>	<b>\$535</b>	<b>\$278</b>	<b>552</b>
<b>Recently Terminated Plans</b>	<b>2,849</b>	<b>0.3%</b>	<b>\$50</b>	<b>0.9%</b>	<b>**</b>	<b>**</b>	<b>**</b>
<b>Total</b>	<b>842,108</b>	<b>100.0%</b>	<b>\$5,699</b>	<b>100.0%</b>	<b>**</b>	<b>**</b>	<b>552</b>

This table is developed primarily using data from PBGC's Payment System (PPS). Some recently terminated plans are still in the process of being added to PPS. Because it's possible that some of those plans may have terminated before the current fiscal year, all terminated plans that are not yet in PPS are shown as a separate line item.

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-22**  
**PBGC Payees and Benefit Payments by Size of Trusteed Plan**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

<b>Number of Plan Participants</b>	<b>Periodic Payees</b>		<b>Periodic Payments</b> <i>(in millions)</i>		<b>Average Monthly Pension Payment</b>	<b>Median Monthly Pension Payment</b>
<b>Fewer Than 100</b>	23,317	2.8%	\$103	1.8%	\$360	\$186
<b>100 - 499</b>	89,416	10.7%	353	6.3%	321	192
<b>500 - 999</b>	60,997	7.3%	267	4.8%	358	211
<b>1,000 - 4,999</b>	195,129	23.3%	948	17.0%	398	230
<b>5,000 - 9,999</b>	110,607	13.2%	736	13.2%	539	292
<b>10,000 - 24,999</b>	159,370	19.0%	1,390	24.9%	696	297
<b>25,000 or More</b>	200,423	23.9%	1,783	32.0%	707	511
<b>Total</b>	<b>839,259</b>	<b>100.0%</b>	<b>\$5,578</b>	<b>100.0%</b>	<b>\$535</b>	<b>\$278</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

Beginning with the 2016 data tables, plan size was determined as of the Date of Plan Trusteeship. Prior to the 2016 Tables, plan size had been based on current participant counts.

**Table S-23**  
**Total PBGC Payees and Average Benefit Payments by Age and Gender**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Age	Total Payees			Male			Female		
	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension
Younger Than 60	33,045	3.9%	\$361	16,915	3.6%	\$407	16,130	4.4%	\$313
60 - 64	89,699	10.7%	502	52,763	11.2%	579	36,935	10.0%	392
65 - 69	175,463	20.9%	561	104,053	22.1%	648	71,411	19.3%	436
70 - 74	180,959	21.6%	587	106,722	22.7%	696	74,235	20.1%	430
75 - 79	139,914	16.7%	585	81,858	17.4%	747	58,056	15.7%	357
80 - 84	103,382	12.3%	538	56,298	12.0%	744	47,085	12.8%	293
85 and Older	116,797	13.9%	426	51,491	11.0%	663	65,307	17.7%	239
<b>Total</b>	<b>839,259</b>	<b>100.0%</b>	<b>\$535</b>	<b>470,100</b>	<b>100.0%</b>	<b>\$673</b>	<b>369,159</b>	<b>100.0%</b>	<b>\$359</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.  
Ages are calculated as of the last day of the fiscal year.  
Beginning in fiscal year 2014 the percentages displayed represent the proportion of each age group within each gender.

**Table S-24**  
**PBGC Retired Payees and Average Benefit Payments by Age and Gender**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Age	Total Retirees			Male			Female		
	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension
Younger Than 60	25,085	3.6%	\$379	15,649	3.4%	\$420	9,436	3.9%	\$313
60 - 64	79,627	11.3%	522	52,046	11.3%	583	27,580	11.5%	406
65 - 69	158,980	22.7%	583	102,832	22.3%	652	56,149	23.4%	457
70 - 74	159,295	22.7%	619	105,235	22.8%	702	54,058	22.6%	457
75 - 79	116,649	16.6%	638	80,527	17.4%	756	36,122	15.1%	377
80 - 84	80,379	11.5%	612	55,320	12.0%	753	25,060	10.5%	300
85 and Older	81,606	11.6%	505	50,376	10.9%	674	31,231	13.0%	233
<b>Total</b>	<b>701,621</b>	<b>100.0%</b>	<b>\$580</b>	<b>461,985</b>	<b>100.0%</b>	<b>\$680</b>	<b>239,636</b>	<b>100.0%</b>	<b>\$388</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.  
Ages are calculated as of the last day of the fiscal year.  
Beginning in fiscal year 2014 the percentages displayed represent the proportion of each age group within each gender.

**Table S-25**  
**PBGC Beneficiary Payees and Average Benefit Payments by Age and Gender**  
**(Fiscal Year 2016)**  
**Single-Employer Program**

Age	Total Beneficiaries			Male			Female		
	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension	Periodic Payees		Average Monthly Pension
Younger Than 60	7,960	5.8%	\$304	1,266	15.6%	\$256	6,694	5.2%	\$313
60 - 64	10,072	7.3%	343	717	8.8%	252	9,355	7.2%	350
65 - 69	16,483	12.0%	353	1,221	15.0%	271	15,262	11.8%	359
70 - 74	21,664	15.7%	353	1,487	18.3%	282	20,177	15.6%	359
75 - 79	23,265	16.9%	318	1,331	16.4%	240	21,934	16.9%	323
80 - 84	23,003	16.7%	282	978	12.1%	219	22,025	17.0%	285
85 and Older	35,191	25.6%	242	1,115	13.7%	165	34,076	26.3%	244
<b>Total</b>	<b>137,638</b>	<b>100.0%</b>	<b>\$303</b>	<b>8,115</b>	<b>100.0%</b>	<b>\$314</b>	<b>129,523</b>	<b>100.0%</b>	<b>\$307</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.  
Ages are calculated as of the last day of the fiscal year.  
Beginning in fiscal year 2014 the percentages displayed represent the proportion of each age group within each gender.  
The weights to calculate averages were updated for the 2016 data tables.

**Table S-26**  
**Total PBGC Payees and Benefit Payments by Size of Monthly Payment**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Monthly Payment	Periodic Payees		Periodic Payments <i>(in millions)</i>	
Less Than \$50	40,341	4.8%	\$17	0.3%
\$50 - \$99	111,257	13.3%	105	1.9%
\$100 - \$149	101,149	12.1%	153	2.8%
\$150 - \$199	76,459	9.1%	163	2.9%
\$200 - \$249	62,800	7.5%	173	3.1%
\$250 - \$299	46,769	5.6%	158	2.8%
\$300 - \$349	42,025	5.0%	168	3.0%
\$350 - \$399	31,813	3.8%	147	2.6%
\$400 - \$449	29,937	3.6%	157	2.8%
\$450 - \$499	23,915	2.8%	140	2.5%
\$500 - \$549	22,500	2.7%	146	2.6%
\$550 - \$599	18,809	2.2%	133	2.4%
\$600 - \$749	45,766	5.5%	378	6.8%
\$750 - \$999	51,318	6.1%	551	9.9%
\$1,000 - \$1,499	68,675	8.2%	1,057	18.9%
\$1,500 - \$1,999	35,333	4.2%	758	13.6%
\$2,000 - \$2,499	13,779	1.6%	383	6.9%
\$2,500 or More	16,615	2.0%	792	14.2%
<b>Total</b>	<b>839,259</b>	<b>100.0%</b>	<b>\$5,578</b>	<b>100.0%</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-27**  
**PBGC Retired Payees and Benefit Payments by Size of Monthly Payment**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Monthly Payment	Periodic Retirees		Retiree Periodic Payments <i>(in millions)</i>	
Less Than \$50	28,738	4.1%	\$12	0.1%
\$50 - \$99	78,093	11.1%	74	0.6%
\$100 - \$149	78,468	11.2%	120	0.7%
\$150 - \$199	63,203	9.0%	136	0.5%
\$200 - \$249	53,223	7.6%	147	2.9%
\$250 - \$299	39,375	5.6%	133	2.6%
\$300 - \$349	35,871	5.1%	143	2.8%
\$350 - \$399	27,365	3.9%	127	2.5%
\$400 - \$449	26,146	3.7%	137	2.7%
\$450 - \$499	20,871	3.0%	122	2.4%
\$500 - \$549	19,780	2.8%	128	2.5%
\$550 - \$599	16,680	2.4%	119	2.3%
\$600 - \$749	40,749	5.8%	337	6.6%
\$750 - \$999	46,029	6.6%	495	9.8%
\$1,000 - \$1,499	64,213	9.2%	992	19.6%
\$1,500 - \$1,999	33,979	4.8%	730	14.4%
\$2,000 - \$2,499	13,116	1.9%	365	7.2%
\$2,500 or More	15,722	2.2%	753	14.8%
<b>Total</b>	<b>701,621</b>	<b>100.0%</b>	<b>\$5,071</b>	<b>100.0%</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

**Table S-28**  
**PBGC Beneficiary Payees and Benefit Payments by Size of Monthly Payment**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Monthly Payment	Periodic Beneficiaries		Beneficiary Periodic Payments <i>(in millions)</i>	
Less Than \$50	11,603	8.4%	\$5	0.9%
\$50 - \$99	33,164	24.1%	32	6.3%
\$100 - \$149	22,681	16.5%	33	6.6%
\$150 - \$199	13,256	9.6%	27	5.4%
\$200 - \$249	9,577	7.0%	26	5.1%
\$250 - \$299	7,394	5.4%	25	4.9%
\$300 - \$349	6,154	4.5%	24	4.7%
\$350 - \$399	4,448	3.2%	20	4.0%
\$400 - \$449	3,791	2.8%	19	3.8%
\$450 - \$499	3,044	2.2%	17	3.5%
\$500 - \$549	2,720	2.0%	17	3.4%
\$550 - \$599	2,129	1.5%	15	2.9%
\$600 - \$749	5,017	3.6%	41	8.0%
\$750 - \$999	5,289	3.8%	56	11.0%
\$1,000 - \$1,499	4,462	3.2%	64	12.7%
\$1,500 - \$1,999	1,354	1.0%	28	5.6%
\$2,000 - \$2,499	663	0.5%	18	3.5%
\$2,500 or More	893	0.6%	39	7.6%
<b>Total</b>	<b>137,638</b>	<b>100.0%</b>	<b>\$507</b>	<b>100.0%</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).  
Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.



**Table S-29**  
**PBGC Payees and Benefit Payments by Industry**  
**(Fiscal Year 2017)**  
**Single-Employer Program**

Industry	Periodic Payees		Periodic Payments		Mean Monthly Pension	Median Monthly Pension
<b>AGRICULTURE, MINING, AND CONSTRUCTION</b>	<b>17,119</b>	<b>2.0%</b>	<b>\$93,732,713</b>	<b>1.7%</b>	<b>\$441</b>	<b>\$263</b>
<b>MANUFACTURING</b>	<b>521,425</b>	<b>62.1%</b>	<b>3,110,284,055</b>	<b>55.8%</b>	<b>480</b>	<b>247</b>
Apparel and Textile Mill Products	65,463	7.8%	155,571,062	2.8%	191	106
Fabricated Metal Products	46,888	5.6%	194,864,842	3.5%	337	216
Food and Tobacco Products	12,929	1.5%	41,271,373	0.7%	257	159
Machinery and Computer Equipment	33,522	4.0%	170,660,674	3.1%	410	229
Motor Vehicle Equipment	58,430	7.0%	737,352,720	13.2%	994	927
Primary Metals	192,915	23.0%	1,293,404,607	23.2%	541	340
Rubber and Miscellaneous Plastics	11,931	1.4%	44,655,880	0.8%	301	199
Other Manufacturing	99,347	11.8%	472,502,897	8.5%	387	219
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>156,463</b>	<b>18.6%</b>	<b>1,622,188,671</b>	<b>29.1%</b>	<b>826</b>	<b>475</b>
Air Transportation	145,881	17.4%	1,568,119,279	28.1%	856	502
Other Transportation	10,532	1.3%	53,950,055	1.0%	412	209
Public Utilities	50	*	119,337	*	256	176
<b>INFORMATION</b>	<b>8,521</b>	<b>1.0%</b>	<b>37,418,606</b>	<b>0.7%</b>	<b>421</b>	<b>237</b>
<b>WHOLESALE TRADE</b>	<b>13,551</b>	<b>1.6%</b>	<b>60,713,927</b>	<b>1.1%</b>	<b>365</b>	<b>218</b>
<b>RETAIL TRADE</b>	<b>41,838</b>	<b>5.0%</b>	<b>143,468,971</b>	<b>2.6%</b>	<b>277</b>	<b>163</b>
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>25,500</b>	<b>3.0%</b>	<b>189,474,417</b>	<b>3.4%</b>	<b>599</b>	<b>347</b>
<b>SERVICES</b>	<b>52,983</b>	<b>6.3%</b>	<b>307,502,080</b>	<b>5.5%</b>	<b>488</b>	<b>269</b>
Health Care	30,788	3.7%	186,444,016	3.3%	492	298
Other Services	22,195	2.6%	121,058,064	2.2%	473	231
<b>NON-PROFIT ORGANIZATIONS</b>	<b>1,860</b>	<b>0.2%</b>	<b>13,591,696</b>	<b>0.2%</b>	<b>590</b>	<b>330</b>
<b>TOTAL</b>	<b>839,259</b>	<b>100.0%</b>	<b>\$5,578,375,137</b>	<b>100.0%</b>	<b>\$535</b>	<b>\$278</b>

This table is based primarily on data provided by the PBGC's Payment System (PPS).

Due to rounding of individual items, numbers and percentages may not add up to totals.

Industry classifications are based on principal business activity code used in the North American Industry Classification System.

\*Less than 0.05 of one percent.

**Table S-30  
PBGC-Insured Plan Participants (1980-2018)  
Single-Employer Program**

<b>Year</b>	<b>Total Insured Participants (in thousands)</b>	<b>In Plans with 10,000 or more Participants (in thousands)</b>	<b>In Plans with 5,000-9,999 Participants (in thousands)</b>	<b>In Plans with 1,000-4,999 Participants (in thousands)</b>	<b>In Plans with 250-999 Participants (in thousands)</b>	<b>In Plans with 100-249 Participants (in thousands)</b>	<b>In Plans with 25-99 Participants (in thousands)</b>	<b>In Plans with Fewer Than 25 Participants (in thousands)</b>
1980	27,518	12,044	2,833	5,776	3,852	1,436	1,064	513
1985	29,809	12,724	3,164	6,579	4,032	1,585	1,164	561
1990	31,633	14,336	3,351	6,989	4,064	1,429	1,023	441
1995	32,634	16,934	3,771	6,908	3,136	1,062	625	198
1996	32,724	17,076	3,843	6,896	3,128	1,005	591	185
1997	33,214	18,046	3,787	6,767	3,008	919	527	160
1998	33,545	18,568	3,905	6,719	2,883	847	476	147
1999	33,804	19,591	3,869	6,355	2,662	776	422	130
2000	34,108	20,337	3,738	6,225	2,569	733	387	119
2001	34,342	21,100	3,661	6,045	2,408	673	346	110
2002	34,248	21,573	3,537	5,846	2,263	605	322	102
2003	34,405	21,947	3,609	5,682	2,164	593	310	100
2004	34,523	22,378	3,603	5,491	2,083	565	304	100
2005	34,232	22,293	3,607	5,373	2,013	550	297	98
2006	33,933	22,143	3,705	5,196	1,974	530	289	96
2007	33,892	22,149	3,756	5,149	1,929	523	289	97
2008	33,888	22,251	3,703	5,164	1,888	504	282	96
2009	33,833	22,452	3,637	5,105	1,800	480	266	93
2010	33,447	22,555	3,504	4,903	1,689	452	254	89
2011	33,388	22,811	3,447	4,752	1,617	434	241	85
2012	32,516	22,313	3,417	4,566	1,499	407	233	82
2013	31,900	21,913	3,353	4,468	1,468	393	225	80
2014	30,926	21,231	3,275	4,366	1,409	370	205	71
2015	29,830	20,389	3,274	4,174	1,356	358	203	76
2016	28,626	19,522	3,099	4,079	1,307	341	198	80
2017	27,510	18,838	2,941	3,885	1,246	319	196	85
2018	26,215	17,862	2,726	3,787	1,234	311	203	92

Source: PBGC Premium Filings

Due to rounding of individual items, numbers may not add up across columns.

**Table S-31  
PBGC-Insured Plans (1980-2018)  
Single-Employer Program**

Year	Total Insured Plans	Insured Plans with 10,000 or more Participants	Insured Plans with 5,000-9,999 Participants	Insured Plans with 1,000-4,999 Participants	Insured Plans with 250-999 Participants	Insured Plans with 100-249 Participants	Insured Plans with 25-99 Participants	Insured Plans with Fewer Than 25 Participants
1980	95,439	349	365	2,858	7,439	8,512	19,069	56,847
1985	112,208	354	435	3,125	8,230	10,003	22,609	67,452
1990	91,899	458	477	3,400	8,085	8,976	19,464	51,039
1995	53,589	528	559	3,308	6,743	6,850	11,674	23,927
1996	48,748	531	556	3,280	6,217	6,225	10,931	21,008
1997	43,902	563	550	3,199	5,962	5,734	9,822	18,072
1998	41,462	570	565	3,139	5,693	5,255	8,788	17,452
1999	37,536	603	555	2,933	5,271	4,803	7,779	15,592
2000	35,373	621	531	2,875	5,056	4,536	7,150	14,604
2001	32,954	644	522	2,787	4,757	4,154	6,335	13,755
2002	31,229	632	505	2,671	4,461	3,742	5,875	13,343
2003	30,611	621	514	2,569	4,238	3,662	5,705	13,302
2004	30,148	627	510	2,478	4,083	3,483	5,616	13,351
2005	29,605	618	509	2,404	3,935	3,379	5,493	13,267
2006	28,923	592	525	2,337	3,850	3,272	5,341	13,006
2007	29,255	595	533	2,336	3,768	3,204	5,352	13,467
2008	28,876	591	524	2,339	3,700	3,090	5,253	13,379
2009	27,797	595	514	2,311	3,534	2,960	4,977	12,906
2010	26,377	570	492	2,200	3,313	2,777	4,796	12,229
2011	25,607	580	488	2,142	3,189	2,681	4,561	11,966
2012	24,215	568	484	2,053	2,976	2,506	4,408	11,220
2013	23,399	561	471	1,997	2,903	2,423	4,260	10,784
2014	22,344	545	462	1,951	2,771	2,266	3,871	10,478
2015	22,166	522	464	1,864	2,653	2,173	3,868	10,622
2016	22,333	500	440	1,800	2,559	2,075	3,797	11,162
2017	22,520	489	419	1,712	2,451	1,944	3,789	11,716
2018	23,371	479	389	1,662	2,417	1,885	3,953	12,586

Source: PBGC Premium Filings

Due to rounding of individual items, numbers may not add up across columns.

**Table S-32  
PBGC-Insured Plan Participants by Participant Status  
(1980-2016)  
Single-Employer Program**

Year	Active Participants	Retired Participants	Separated Vested Participants
1980	77.6%	16.0%	6.4%
1985	72.2%	18.7%	9.1%
1990	68.1%	19.4%	12.6%
1995	57.8%	22.9%	19.3%
1996	55.3%	23.0%	21.8%
1997	54.7%	23.7%	21.5%
1998	54.2%	23.8%	22.0%
1999	53.7%	23.9%	22.4%
2000	51.9%	24.4%	23.7%
2001	51.3%	24.6%	24.1%
2002	49.8%	25.2%	25.0%
2003	48.6%	25.4%	26.0%
2004	47.2%	26.1%	26.7%
2005	45.7%	26.6%	27.6%
2006	44.8%	27.1%	28.1%
2007	43.5%	27.8%	28.7%
2008	43.3%	28.0%	28.7%
2009	40.2%	29.4%	30.4%
2010	38.5%	30.9%	30.6%
2011	37.8%	31.7%	30.5%
2012	36.9%	33.3%	29.8%
2013	36.9%	32.9%	30.2%
2014	36.1%	35.3%	28.6%
2015	35.8%	35.7%	28.6%
2016	36.4%	36.0%	27.6%

Source: Form 5500 Filings

Data for plan years prior to 1999 include only plans with 100 or more participants.  
Due to rounding of individual items, percentages may not add up to 100%.

**Table S-33  
PBGC-Insured Active Participants as a Percent of  
Private-Sector Wage and Salary Workers  
(1980-2016)**

Year	Private-Sector Wage and Salary Workers <i>(in thousands)</i>	Percentage of Private-Sector Wage and Salary Workers		
		Single-Employer Active Participants	Multiemployer Active Participants	Total PBGC-Insured Active Participants
1980	74,095	28.8%	8.2%	37.0%
1985	82,180	26.2%	6.6%	32.8%
1990	89,614	24.0%	5.6%	29.6%
1991	88,875	23.8%	5.4%	29.1%
1992	90,372	22.8%	5.2%	28.0%
1993	92,399	21.6%	5.0%	26.6%
1994	95,595	20.7%	4.7%	25.4%
1995	96,429	19.6%	4.7%	24.2%
1996	98,896	18.3%	4.6%	22.9%
1997	101,999	17.8%	4.5%	22.3%
1998	103,698	17.5%	4.4%	21.9%
1999	105,707	17.2%	4.3%	21.5%
2000	108,097	16.4%	4.3%	20.7%
2001	106,747	16.5%	4.4%	20.9%
2002	106,687	16.0%	4.3%	20.3%
2003	108,331	15.4%	4.2%	19.7%
2004	109,462	14.9%	4.1%	19.0%
2005	112,422	13.9%	4.0%	17.9%
2006	114,520	13.3%	3.9%	17.2%
2007	115,524	12.8%	3.9%	16.6%
2008	112,265	13.1%	4.0%	17.0%
2009	107,103	12.7%	4.0%	16.7%
2010	108,986	11.8%	3.7%	15.6%
2011	110,672	11.1%	3.6%	14.7%
2012	112,600	10.7%	3.4%	14.0%
2013	114,932	10.2%	3.3%	13.6%
2014	117,698	9.5%	3.2%	12.7%
2015	119,565	8.9%	3.1%	12.0%
2016	121,090	8.6%	3.1%	11.8%

Sources: PBGC Pension Insurance Data Book Tables S-30, S-32, M-5 and M-7 and data on employed wage and salary workers from Labor Force Statistics from the Current Population Survey (Bureau of Labor Statistics, U.S. Department of Labor).

Due to rounding of individual items, percentages may not add up across columns.

**Table S-34  
PBGC-Insured Hybrid Plans by Plan Size (2001-2016)  
Single-Employer Program**

Beginning of Year	Total Insured Plans			Insured Plans with 5,000 or More Participants			Insured Plans with 1,000-4,999 Participants			Insured Plans with Fewer Than 1,000 Participants		
	Total Plans	Hybrid Plans	Percent Hybrid	Total Plans	Hybrid Plans	Percent Hybrid	Total Plans	Hybrid Plans	Percent Hybrid	Total Plans	Hybrid Plans	Percent Hybrid
2001	32,954	1,227	3.7%	1,166	256	22.0%	2,787	290	10.4%	29,001	681	2.4%
2002	31,229	1,308	4.2%	1,137	263	23.1%	2,671	310	11.6%	27,421	735	2.7%
2003	30,611	1,541	5.0%	1,135	303	26.7%	2,569	326	12.7%	26,907	912	3.4%
2004	30,148	1,756	5.8%	1,137	342	30.1%	2,478	338	13.6%	26,533	1,076	4.1%
2005	29,605	1,944	6.6%	1,127	342	30.4%	2,404	331	13.8%	26,074	1,271	4.9%
2006	28,923	2,116	7.3%	1,117	352	31.5%	2,337	347	14.9%	25,469	1,417	5.6%
2007	29,255	2,439	8.3%	1,128	356	31.6%	2,336	350	15.0%	25,791	1,733	6.7%
2008	28,876	3,396	11.8%	1,115	357	32.0%	2,339	357	15.3%	25,422	2,682	10.6%
2009	27,797	3,251	11.7%	1,109	376	33.9%	2,311	364	15.8%	24,377	2,511	10.3%
2010	26,377	3,606	13.7%	1,062	389	36.6%	2,200	371	16.9%	23,115	2,846	12.3%
2011	25,607	3,996	15.6%	1,068	392	36.7%	2,142	376	17.6%	22,397	3,228	14.4%
2012	24,215	4,334	17.9%	1,052	399	37.9%	2,053	375	18.3%	21,110	3,560	16.9%
2013	23,399	4,814	20.6%	1,032	407	39.4%	1,997	383	19.2%	20,370	4,024	19.8%
2014	22,344	5,159	23.1%	1,007	401	39.8%	1,951	381	19.5%	19,386	4,377	22.6%
2015	22,166	5,442	24.6%	986	365	37.0%	1,864	368	19.7%	19,316	4,709	24.4%
2016	22,333	6,323	28.3%	940	383	40.7%	1,800	375	20.8%	19,593	5,565	24.9%

Source: Form 5500 Filings

Hybrid plans incorporate elements of both defined benefit and defined contribution plans but are treated as defined benefit plans. They often express benefits in terms of an account balance. The two most common types of hybrid plans are Cash Balance Plans and Pension Equity Plans.

**Table S-35  
PBGC-Insured Hybrid Plan Participants by Plan Size (2001-2016)  
Single-Employer Program**

Beginning of Year	Total Insured Plans			Insured Plans with 5,000 or More			Insured Plans with 1,000-4,999			Insured Plans with Fewer Than 1,000		
	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid
2001	34,342	7,034	20.5%	24,761	6,180	25.0%	6,045	698	11.6%	3,536	156	4.4%
2002	34,248	7,915	23.1%	25,110	6,999	27.9%	5,846	763	13.1%	3,292	153	4.7%
2003	34,407	8,475	24.6%	25,556	7,530	29.5%	5,682	789	13.9%	3,168	156	4.9%
2004	34,523	9,993	29.0%	25,981	8,979	34.6%	5,491	837	15.2%	3,051	177	5.8%
2005	34,232	10,333	30.2%	25,900	9,328	36.0%	5,373	821	15.3%	2,959	184	6.2%
2006	33,933	10,326	30.4%	25,848	9,284	35.9%	5,196	853	16.4%	2,889	189	6.5%
2007	33,892	10,921	32.2%	25,905	9,842	38.0%	5,149	874	17.0%	2,838	205	7.2%
2008	33,888	10,687	31.5%	25,954	9,569	36.9%	5,164	878	17.0%	2,770	240	8.7%
2009	33,833	11,602	34.3%	26,089	10,473	40.2%	5,105	896	17.6%	2,639	232	8.8%
2010	33,447	12,490	37.3%	26,059	11,343	43.5%	4,903	905	18.5%	2,484	241	9.7%
2011	33,388	12,642	37.9%	26,259	11,486	43.7%	4,752	914	19.2%	2,377	242	10.2%
2012	32,516	12,469	38.4%	25,730	11,329	44.0%	4,566	900	19.7%	2,221	239	10.8%
2013	31,900	12,843	40.3%	25,266	11,644	46.1%	4,468	941	21.1%	2,166	258	11.9%
2014	30,926	12,508	40.4%	24,506	11,323	46.2%	4,366	934	21.4%	2,055	251	12.2%
2015	29,830	11,356	38.1%	23,663	10,159	42.9%	4,174	934	22.4%	1,993	263	13.2%
2016	28,626	11,771	41.1%	22,622	10,553	46.7%	4,079	950	23.3%	1,925	267	13.9%

Source: Form 5500 Filings

Hybrid plans incorporate elements of both defined benefit and defined contribution plans but are treated as defined benefit plans. They often express benefits in terms of an account balance. The two most common types of hybrid plans are Cash Balance Plans and Pension Equity Plans. Because most hybrid plans converted from traditional defined benefit plans, not all participants will receive benefits based on the hybrid plan design.

**Table S-36**  
**PBGC-Insured Plans by Status of Benefit Accruals and Participation Freeze**  
**(2008-2016)**  
**Single-Employer Program**

Beginning of Plan Year	With Accrual or Participation Freeze Provision					No Accrual or Participation Freeze	Total
	Total With Provision	Hard-Frozen*	Accruals Continue, But Closed to New Entrants	Partially-Frozen and Closed to New Entrants**	Partially-Frozen and Open to New Entrants**		
<b>Number of Plans</b>							
2008	8,059	6,072	1,053	574	360	20,817	28,876
2009	9,346	7,143	1,158	655	390	18,451	27,797
2010	9,976	7,722	1,171	675	408	16,401	26,377
2011	10,220	7,738	1,362	740	380	15,387	25,607
2012	9,781	7,387	1,382	684	328	14,434	24,215
2013	9,270	6,954	1,351	649	316	14,129	23,399
2014	8,285	6,182	1,222	617	264	14,059	22,344
2015	7,888	5,826	1,192	615	255	14,278	22,166
2016	7,692	5,747	1,126	586	233	14,641	22,333
<b>Percent of Plans</b>							
2008	27.9%	21.0%	3.7%	2.0%	1.3%	72.1%	100.0%
2009	33.6%	25.7%	4.2%	2.4%	1.4%	66.4%	100.0%
2010	37.8%	29.3%	4.4%	2.6%	1.6%	62.2%	100.0%
2011	39.9%	30.2%	5.3%	2.9%	1.5%	60.1%	100.0%
2012	40.4%	30.5%	5.7%	2.8%	1.4%	59.6%	100.0%
2013	39.6%	29.7%	5.8%	2.8%	1.4%	60.4%	100.0%
2014	37.1%	27.7%	5.5%	2.8%	1.2%	62.9%	100.0%
2015	35.6%	26.3%	5.4%	2.8%	1.2%	64.4%	100.0%
2016	34.5%	25.7%	5.0%	2.6%	1.0%	65.5%	100.0%

Source: PBGC Premium Filings

\*Hard-frozen plans are plans where no participants are receiving new benefit accruals.

\*\*Includes plans where only service is frozen, or accruals are hard-frozen for some participants.



**Table S-37**  
**Active Participants in PBGC-Insured Plans by Status of Benefit**  
**Accruals and Whether a Plan is Open to New Entrants (2008-2016)**  
**Single-Employer Program**

Beginning of Plan Year	Complete or Partial Accrual Freeze				No Accrual Freeze			Total Active Participants
	Hard-Frozen*	Accruals partially frozen and closed to new entrants**	Accruals partially frozen and open to new entrants**	Sub-Total (Active Participants in Frozen Plans)	Plan closed to new entrants	Plan open to new entrants	Sub Total (Active Participants in Non-Frozen Plans)	
<b>Number of Active Participants</b> (in thousands)								
2008	1,202	819	521	2,542	1,357	10,586	11,943	14,485
2009	1,418	736	468	2,622	1,361	9,649	11,011	13,633
2010	1,728	969	554	3,250	1,425	8,943	10,368	13,618
2011	1,533	1,040	585	3,158	1,447	8,017	9,463	12,621
2012	1,646	1,016	564	3,226	1,491	7,281	8,772	11,998
2013	2,065	1,063	694	3,822	1,473	6,476	7,949	11,771
2014	1,975	1,045	637	3,657	1,256	6,244	7,500	11,157
2015	2,055	1,271	643	3,969	1,120	5,573	6,693	10,662
2016	2,226	1,042	763	4,031	1,177	5,234	6,411	10,442
<b>Percent of Active Participants</b>								
2008	8.3%	5.7%	3.6%	17.6%	9.4%	73.1%	82.5%	100.0%
2009	10.4%	5.4%	3.4%	19.2%	10.0%	70.8%	80.8%	100.0%
2010	12.7%	7.1%	4.1%	23.9%	10.5%	65.7%	76.1%	100.0%
2011	12.1%	8.2%	4.6%	24.9%	11.5%	63.5%	75.1%	100.0%
2012	13.7%	8.5%	4.7%	26.9%	12.4%	60.7%	73.1%	100.0%
2013	17.5%	9.0%	5.9%	32.5%	12.5%	55.0%	67.5%	100.0%
2014	17.7%	9.4%	5.7%	32.8%	11.3%	56.0%	67.2%	100.0%
2015	19.3%	11.9%	6.0%	37.2%	10.5%	52.3%	62.8%	100.0%
2016	21.3%	10.0%	7.3%	38.6%	11.3%	50.1%	61.4%	100.0%

Sources: PBGC Premium Filings and Form 5500 Filings

\*Hard-frozen plans are plans where no participants are receiving new benefit accruals.

\*\*Includes plans where only service is frozen, or accruals are hard-frozen for some participants.

**Table S-38  
PBGC-Insured Plans, Participants and Premiums by Industry (2016)  
Single-Employer Program**

Industry	Insured Plans		Insured Participants (in thousands)		Premiums* (in millions)	
<b>AGRICULTURE, MINING, AND CONSTRUCTION</b>	<b>2,251</b>	<b>10.1%</b>	<b>513</b>	<b>1.8%</b>	<b>\$128</b>	<b>2.0%</b>
<b>MANUFACTURING</b>	<b>4,416</b>	<b>19.8%</b>	<b>11,694</b>	<b>40.9%</b>	<b>2,959</b>	<b>46.4%</b>
Chemical and Allied Products	418	1.9%	1,489	5.2%	405	6.4%
Computer and Electronic Products	167	0.8%	506	1.8%	164	2.6%
Electrical Equipment	207	0.9%	1,104	3.9%	431	6.8%
Fabricated Metal Products	672	3.0%	422	1.5%	118	1.9%
Food, Beverage and Tobacco Products	441	2.0%	1,148	4.0%	172	2.7%
Machinery Manufacturing	403	1.8%	718	2.5%	182	2.9%
Motor Vehicle Equipment	200	0.9%	1,412	4.9%	264	4.1%
Paper Manufacturing	153	0.7%	463	1.6%	131	2.1%
Petroleum and Coal Products	81	0.4%	508	1.8%	98	1.5%
Primary Metals	247	1.1%	388	1.4%	145	2.3%
Other Manufacturing	1,427	6.4%	3,536	12.4%	850	13.3%
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>782</b>	<b>3.5%</b>	<b>2,488</b>	<b>8.7%</b>	<b>706</b>	<b>11.1%</b>
Air Transportation	52	0.2%	644	2.3%	244	3.8%
Other Transportation	445	2.0%	849	3.0%	184	2.9%
Public Utilities	285	1.3%	995	3.5%	279	4.4%
<b>INFORMATION</b>	<b>591</b>	<b>2.7%</b>	<b>1,817</b>	<b>6.4%</b>	<b>403</b>	<b>6.3%</b>
<b>WHOLESALE TRADE</b>	<b>1,782</b>	<b>8.0%</b>	<b>708</b>	<b>2.5%</b>	<b>168</b>	<b>2.6%</b>
<b>RETAIL TRADE</b>	<b>1,064</b>	<b>4.8%</b>	<b>1,357</b>	<b>4.7%</b>	<b>211</b>	<b>3.3%</b>
<b>FINANCE, INSURANCE, AND REAL ESTATE</b>	<b>3,960</b>	<b>17.7%</b>	<b>4,066</b>	<b>14.2%</b>	<b>488</b>	<b>7.6%</b>
<b>SERVICES</b>	<b>6,868</b>	<b>30.8%</b>	<b>5,803</b>	<b>20.3%</b>	<b>1,261</b>	<b>19.8%</b>
Health Care	1,752	7.8%	2,883	10.1%	702	11.0%
Other Services	5,116	22.9%	2,920	10.2%	558	8.8%
<b>NON-PROFIT ORGANIZATIONS</b>	<b>619</b>	<b>2.8%</b>	<b>184</b>	<b>0.6%</b>	<b>55</b>	<b>0.9%</b>
<b>TOTAL</b>	<b>22,333</b>	<b>100.0%</b>	<b>28,630</b>	<b>100.0%</b>	<b>\$6,379</b>	<b>100.0%</b>

Source: PBGC Premium Filings

Due to rounding of individual items, numbers and percentages may not add up to totals.

Industry classifications are based on principal business activity codes used in the North American Industry Classification System.

\*Beginning in 2016 Data Tables, this figure excludes termination premium revenues.

**Table S-39  
PBGC's Historic Premium Rates (1974-2018)  
Single-Employer Program**

Plan Year(s) Beginning	Flat-Rate Premium <i>Rate per Participant</i>	Variable-Rate Premium*		Premium for Certain Terminated Plans <i>Rate per Participant (applicable for three years)</i>
		<i>Rate per \$1,000 of Unfunded Vested Liabilities</i>	<i>Per-Participant Cap**</i>	
September 2, 1974 - December 31, 1977	\$1.00	--	--	--
1978 - 1985	\$2.60	--	--	--
1986 - 1987	\$8.50	--	--	--
1988 - 1990	\$16	\$6	\$34	--
1991 - 1993	\$19	\$9	\$53	--
1994 - 1997	\$19	\$9	\$53***	--
1998 - 2005	\$19	\$9	No cap	--
2006	\$30	\$9	No cap	\$1,250
2007	\$31	\$9	No cap	\$1,250
2008	\$33	\$9	No cap	\$1,250
2009	\$34	\$9	No cap	\$1,250
2010 - 2012	\$35	\$9	No cap	\$1,250
2013	\$42	\$9	\$400	\$1,250
2014	\$49	\$14	\$412	\$1,250
2015	\$57	\$24	\$418	\$1,250
2016	\$64	\$30	\$500	\$1,250
2017	\$69	\$34	\$517	\$1,250
2018	\$74	\$38	\$523	\$1,250
2019	\$80	\$43	\$541	\$1,250

\* For plan years beginning in 1990 – 2007, plans that satisfied specified criteria regarding contributions were exempt from the VRP.

\*\* For plan years beginning after 2006, plans sponsored by small employers (generally fewer than 25 employees) qualify for an alternative cap (i.e., \$5 times the square of the number of plan participants). For such plans, the maximum VRP owed is the lesser of the small-employer cap and the general VRP cap shown above.

\*\*\* 1994 legislation provided for eliminating the VRP cap subject to a three-year transition period. During the transition, (i.e., for plan years beginning 7/1/1994 – 6/30/1996), the VRP cap was \$53 plus a variable amount based on the plan's funded status. For the 1997 plan year, the VRP cap only applied to Regulated Public Utility Plans. Legislation re-establishing a cap on the VRP was enacted in 2012 and first applied to plan years beginning in 2013.

**Table S-40**  
**PBGC Premium Revenue (1980-2018)**  
**Single-Employer Program**

Year	Flat-Rate Premium <i>(in millions)</i>		Variable-Rate Premium <i>(in millions)</i>		Termination Premium, net of bad debt expense* <i>(in millions)</i>		Total Premium <i>(in millions)</i>
1980	\$71	100.0%	---	---	---	---	\$71
1985	82	100.0%	---	---	---	---	82
1990	509	77.2%	\$150	22.8%	---	---	659
1995	587	70.1%	251	30.0%	---	---	838
1996	600	52.4%	546	47.6%	---	---	1,146
1997	646	60.5%	421	39.5%	---	---	1,067
1998	642	66.5%	324	33.5%	---	---	966
1999	611	67.7%	291	32.3%	---	---	902
2000	661	81.9%	146	18.1%	---	---	807
2001	674	82.1%	147	17.9%	---	---	821
2002	654	83.1%	133	16.9%	---	---	787
2003	647	68.3%	301	31.8%	---	---	948
2004	654	44.9%	804	55.1%	---	---	1,458
2005	664	45.8%	787	54.2%	---	---	1,451
2006	892	61.9%	550	38.1%	---	---	1,442
2007	1,057	71.6%	358	24.3%	\$61	4.1%	1,476
2008	1,104	78.7%	241	17.2%	57	4.1%	1,402
2009	1,126	61.8%	696	38.2%	---	---	1,822
2010	1,188	53.3%	1,043	46.8%	---	---	2,231
2011	1,143	55.2%	929	44.8%	---	---	2,072
2012	1,123	42.5%	1,495	56.6%	24	0.9%	2,642
2013	1,275	43.3%	1,580	53.7%	88	3.0%	2,943
2014	1,379	36.2%	2,439	64.0%	-6	-0.2%	3,812
2015	1,556	37.6%	2,565	62.0%	17	0.4%	4,138
2016	1,744	27.3%	4,639	72.7%	-4	-0.1%	6,379
2017	1,785	26.5%	4,948	73.4%	6	0.1%	6,739
2018	\$1,807	32.8%	\$3,702	67.1%	\$9	0.2%	\$5,518

Source: Annual Report

Due to rounding of individual items, percentages may not add up to 100%.

\*Beginning in 2009, PBGC began reporting premium income net of bad debt expense for premium, interest, and penalties. These components are combined with any termination premiums collected.

**Table S-41  
PBGC Premium Revenue by Size of Plan and Type of Premium (2016)  
Single-Employer Program (in millions)**

<b>Number of Plan Participants</b>	<b>Flat-Rate Premium</b>		<b>Variable-Rate Premium</b>		<b>Total Premium*</b>	
<b>Fewer Than 100</b>	\$22	1.3%	\$40	0.9%	\$62	1.0%
<b>100 - 499</b>	58	3.3%	186	4.0%	244	3.8%
<b>500 - 999</b>	53	3.0%	176	3.8%	229	3.6%
<b>1,000 - 2,499</b>	125	7.2%	415	8.9%	539	8.5%
<b>2,500 - 4,999</b>	145	8.3%	453	9.8%	598	9.4%
<b>5,000 - 9,999</b>	193	11.1%	586	12.6%	779	12.2%
<b>10,000 or more</b>	\$1,148	65.9%	\$2,783	60.0%	\$3,931	61.6%
<b>Total</b>	\$1,744	100.0%	\$4,639	100.0%	\$6,383	100.0%
<b>Percent of Total</b>	27.3%		72.7%		100.0%	

Sources: PBGC Premium Filings and Annual Report

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

"Percent of Total" represents the proportion of total premiums made up of the flat-rate and variable-rate premiums, respectively.

\* Excludes termination premium revenues.

**Table S-42**  
**PBGC-Insured Plans and Participants by Variable Rate Premium Paid (2016)**  
**Single-Employer Program**

Variable-Rate Premium (VRP), Expressed on a Participant Basis	Plans	Percent of Plans Paying VRP	Percent of All Plans	Participants <i>(in thousands)</i>	Percent of Participants in Plans Paying VRP	Percent of All Participants
<b>No Variable-Rate Premium Paid</b>	<b>10,624</b>	---	<b>47.6%</b>	<b>9,963</b>	---	<b>34.8%</b>
<b>Total Variable-Rate Premium Payers</b>	<b>11,709</b>	<b>100.0%</b>	<b>52.4%</b>	<b>18,667</b>	<b>100.0%</b>	<b>65.2%</b>
\$0.01 - \$9.99	341	2.9%	1.5%	916	4.9%	3.2%
\$10.00 - \$19.99	1,593	13.6%	7.1%	614	3.3%	2.2%
\$20.00 - \$29.99	1,083	9.3%	4.9%	290	1.6%	1.0%
\$30.00 - \$39.99	751	6.4%	3.4%	158	0.9%	0.6%
\$40.00 - \$49.99	543	4.6%	2.4%	257	1.4%	0.9%
\$50.00 - \$59.99	400	3.4%	1.8%	245	1.3%	0.9%
\$60.00 - \$69.99	350	3.0%	1.6%	323	1.7%	1.1%
\$70.00 - \$79.99	296	2.5%	1.3%	428	2.3%	1.5%
\$80.00 - \$89.99	253	2.2%	1.1%	237	1.3%	0.8%
\$90.00 - \$99.99	226	1.9%	1.0%	417	2.2%	1.5%
\$100.00 - \$149.99	890	7.6%	4.0%	2,032	10.9%	7.1%
\$150.00 - \$199.99	702	6.0%	3.1%	1,526	8.2%	5.3%
\$200.00 - \$249.99	619	5.3%	2.8%	1,539	8.2%	5.4%
\$250.00 - \$299.99	545	4.7%	2.4%	1,565	8.4%	5.5%
\$300.00 or More	3,117	26.6%	14.0%	8,120	43.5%	28.4%
	<b>22,333</b>	---	<b>100.0%</b>	<b>28,630</b>	---	<b>100.0%</b>

Source: PBGC Premium Filings

Due to rounding of individual items, percentages may not add up to 100%.

**Table S-43  
PBGC-Insured Plans and Participants by Variable-Rate Premium Status (1992-2016)\*  
Single-Employer Program**

Plan Year	Plans Paying Variable-Rate Premium	Participants in Plans Paying Variable-Rate Premium	Pre-PPA Single Discount Rate	Variable-Rate Premium Spot Rates** Standard Method****		
				First Segment***	Second Segment***	Third Segment***
1992	30.8%	27.4%	6.16%			
1993	36.4%	24.9%	5.95%			
1994	43.1%	34.2%	5.00%			
1995	38.5%	23.8%	6.30%			
1996	46.8%	32.1%	4.85%			
1997	37.0%	19.4%	5.24%			
1998	35.6%	16.6%	5.09%			
1999	35.1%	13.2%	4.30%			
2000	28.0%	7.4%	5.40%			
2001	33.5%	8.0%	4.67%			
2002	35.7%	9.8%	5.48%			
2003	45.1%	17.2%	4.92%			
2004	50.0%	33.1%	4.94%			
2005	48.3%	32.5%	4.73%			
2006	38.3%	14.4%	4.86%			
2007	24.5%	11.0%	5.75%			
2008	33.4%	23.7%		4.93%	6.13%	6.69%
2009	41.7%	46.9%		6.72%	7.12%	6.36%
2010	53.3%	53.7%		2.35%	5.65%	6.45%
2011	53.9%	54.2%		1.98%	5.23%	6.52%
2012	60.7%	62.5%		2.07%	4.45%	5.24%
2013	60.8%	62.4%		1.00%	3.57%	4.77%
2014	51.2%	60.7%		1.25%	4.57%	5.60%
2015	48.5%	58.3%		1.48%	3.77%	4.79%
2016	52.4%	65.2%		1.82%	4.12%	5.01%

Source: PBGC Premium Filings

\*Excludes plans paying PBGC Termination Premium.

\*\* Interest rates for valuing vested benefits for PBGC variable-rate premium for plans with premium payment years beginning in January of the respective year.

\*\*\* Beginning in 2008, plans were required to use spot segment interest rates published by the IRS for calculating a plan's vested liabilities to determine their variable-rate premiums. The first segment rate applies to benefits expected to be paid within five years, the second to benefits expected to be paid from six to twenty years in the future, and the third to benefits expected to be paid more than twenty years in the future.

\*\*\*\*Standard Method is shown for illustrative purposes. See pbgc.gov for a complete description of the alternative method.

**Table S-44  
Funding of PBGC-Insured Plans (1980-2016)  
Single-Employer Program**

<b>Beginning of Year</b>	<b>Assets (in millions)</b>	<b>Liabilities* (in millions)</b>	<b>Funding Ratio</b>	<b>Underfunding (in millions)</b>	<b>Overfunding (in millions)</b>	<b>PBGC Rate</b>
1980	\$259,810	\$212,072	123%	\$20,156	\$67,894	8.50%
1985	500,673	308,617	162%	11,182	203,238	9.75%
1990	837,131	604,047	139%	35,689	268,773	7.25%
1991	848,251	687,896	123%	34,485	194,840	7.25%
1992	915,722	771,421	119%	47,528	191,829	6.25%
1993	951,972	844,803	113%	59,622	166,791	6.40%
1994	1,001,129	936,698	107%	75,569	140,000	5.65%
1995	1,032,503	887,730	116%	37,278	182,050	7.15%
1996	1,198,221	1,134,194	106%	83,071	147,098	5.30%
1997	1,368,188	1,192,222	115%	47,906	223,871	5.80%
1998	1,491,488	1,284,725	116%	49,242	256,005	5.40%
1999	1,692,755	1,455,469	116%	54,237	291,524	5.30%
2000	1,836,184	1,271,347	144%	6,566	571,403	7.00%
2001	1,714,534	1,374,416	125%	38,564	378,682	6.40%
2002	1,444,777	1,435,558	101%	142,573	151,793	5.70%
2003	1,372,490	1,620,607	85%	298,996	50,879	5.00%
2004	1,590,057	1,860,514	85%	321,831	51,373	4.00%
2005	1,728,856	1,946,593	89%	282,953	65,215	3.90%
2006	1,840,181	1,910,563	96%	185,883	115,502	4.50%
2007	2,006,652	1,930,465	104%	113,806	189,993	4.99%
2008	2,035,275	1,889,057	108%	84,932	231,150	5.37%
2009	1,561,308	1,945,001	80%	414,303	30,610	5.38%
2010	1,784,273	2,204,591	81%	448,954	28,637	4.52%
2011	2,019,906	2,377,262	85%	396,346	38,990	4.26%
2012	2,050,785	2,858,971	72%	823,419	15,233	2.95%
2013	2,166,151	2,908,473	74%	758,571	16,249	2.68%
2014	2,285,984	2,642,397	87%	399,306	42,893	3.54%
2015	2,350,663	2,979,124	79%	649,168	20,708	2.46%
2016	\$2,236,296	\$2,846,388	79%	\$625,350	\$15,259	2.81%

Sources: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.



**Table S-45  
Funding of Underfunded PBGC-Insured Plans (1980-2016)  
Single-Employer Program**

<b>Beginning of Year</b>	<b>Assets (in millions)</b>	<b>Liabilities* (in millions)</b>	<b>Underfunding (in millions)</b>	<b>Funding Ratio</b>	<b>PBGC Rate</b>
1980	\$53,840	\$73,996	\$20,156	73%	8.50%
1985	28,722	39,904	11,182	72%	9.75%
1990	95,068	130,758	35,689	73%	7.25%
1991	147,301	181,786	34,485	81%	7.25%
1992	172,372	219,900	47,528	78%	6.25%
1993	215,695	275,317	59,622	78%	6.40%
1994	308,516	384,085	75,569	80%	5.65%
1995	218,493	255,771	37,278	85%	7.15%
1996	493,597	576,668	83,071	86%	5.30%
1997	353,823	401,729	47,906	88%	5.80%
1998	358,514	407,756	49,242	88%	5.40%
1999	413,446	467,683	54,237	88%	5.30%
2000	63,218	69,784	6,566	91%	7.00%
2001	308,514	347,078	38,564	89%	6.40%
2002	778,351	920,925	142,573	85%	5.70%
2003	1,069,966	1,368,962	298,996	78%	5.00%
2004	1,229,811	1,551,642	321,831	79%	4.00%
2005	1,197,558	1,480,512	282,953	81%	3.90%
2006	971,052	1,156,935	185,883	84%	4.50%
2007	815,236	929,042	113,806	88%	4.99%
2008	698,799	783,731	84,932	89%	5.37%
2009	1,376,306	1,790,608	414,303	77%	5.38%
2010	1,576,485	2,025,439	448,953	78%	4.52%
2011	1,694,339	2,090,685	396,346	81%	4.26%
2012	1,935,907	2,759,325	823,419	70%	2.95%
2013	2,067,202	2,825,773	758,571	73%	2.68%
2014	1,949,946	2,349,252	399,306	83%	3.54%
2015	2,179,429	2,828,597	649,168	77%	2.46%
2016	\$2,107,030	\$2,732,380	\$625,350	77%	2.81%

Sources: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(i)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-46**  
**Funding of Overfunded PBGC-Insured Plans (1980-2016)**  
**Single-Employer Program**

<b>Beginning of Year</b>	<b>Assets (in millions)</b>	<b>Liabilities* (in millions)</b>	<b>Overfunding (in millions)</b>	<b>Funding Ratio</b>	<b>PBGC Rate</b>
1980	\$205,970	\$138,076	\$67,894	149%	8.50%
1985	471,951	268,713	203,238	176%	9.75%
1990	742,063	473,289	268,773	157%	7.25%
1991	700,950	506,110	194,840	139%	7.25%
1992	743,350	551,520	191,829	135%	6.25%
1993	736,277	569,486	166,791	129%	6.40%
1994	692,613	552,613	140,000	125%	5.65%
1995	814,009	631,959	182,050	129%	7.15%
1996	704,624	557,526	147,098	126%	5.30%
1997	1,014,365	790,494	223,871	128%	5.80%
1998	1,132,974	876,969	256,005	129%	5.40%
1999	1,279,309	987,785	291,524	130%	5.30%
2000	1,772,966	1,201,563	571,403	148%	7.00%
2001	1,406,020	1,027,338	378,682	137%	6.40%
2002	666,426	514,633	151,793	130%	5.70%
2003	302,524	251,645	50,879	120%	5.00%
2004	360,246	308,872	51,373	117%	4.00%
2005	531,297	466,082	65,215	114%	3.90%
2006	869,129	753,627	115,502	115%	4.50%
2007	1,191,416	1,001,423	189,993	119%	4.99%
2008	1,336,476	1,105,326	231,150	121%	5.37%
2009	185,002	154,393	30,610	120%	5.38%
2010	207,789	179,152	28,637	116%	4.52%
2011	325,567	286,577	38,990	114%	4.26%
2012**	114,878	99,646	15,233	115%	2.95%
2013	98,949	82,700	16,249	120%	2.68%
2014	336,038	293,145	42,893	115%	3.54%
2015	171,234	150,526	20,708	114%	2.46%
2016	\$129,266	\$114,007	\$15,259	113%	2.81%

Sources: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-47**  
**Concentration of Underfunding in PBGC-Insured Plans (1990-2016)**  
**Single-Employer Program**

<b>Beginning of Year</b>	<b>Total Underfunding (in millions)</b>	<b>10 Plans With the Highest Underfunding (in millions)</b>		<b>Next 40 Plans' Underfunding (in millions)</b>		<b>All Other Plans' Underfunding (in millions)</b>	
1990	\$35,689	\$14,119	39.6%	\$6,487	18.2%	\$15,083	42.3%
1991	34,485	14,067	40.8%	6,884	20.0%	13,534	39.3%
1992	47,528	21,610	45.5%	7,818	16.5%	18,100	38.1%
1993	59,622	25,894	43.4%	9,337	15.7%	24,392	40.9%
1994	75,569	28,658	37.9%	10,310	13.6%	36,601	48.4%
1995	37,278	6,535	17.5%	7,921	21.3%	22,822	61.2%
1996	83,071	13,850	16.7%	16,410	19.8%	52,810	63.6%
1997	47,906	7,751	16.2%	8,473	17.7%	31,682	66.1%
1998	49,242	14,432	29.3%	6,942	14.1%	27,868	56.6%
1999	54,237	11,500	21.2%	9,018	16.6%	33,719	62.2%
2000	6,566	1,631	24.8%	1,077	16.4%	3,858	58.8%
2001	38,564	12,776	33.1%	7,254	18.8%	18,534	48.1%
2002	142,573	33,691	23.6%	25,933	18.2%	82,949	58.2%
2003	298,996	34,922	11.7%	59,169	19.8%	204,905	68.5%
2004	321,830	34,899	10.8%	62,414	19.4%	224,517	69.8%
2005	282,954	29,255	10.3%	50,825	18.0%	202,874	71.7%
2006	185,883	23,881	12.9%	31,663	17.0%	130,339	70.1%
2007	113,806	16,621	14.6%	20,358	17.9%	76,827	67.5%
2008	84,932	19,242	22.7%	15,397	18.1%	50,293	59.2%
2009	414,303	55,607	13.4%	76,158	18.4%	282,538	68.2%
2010	448,953	63,561	14.2%	79,670	17.8%	305,723	68.1%
2011	396,346	59,146	14.9%	67,937	17.1%	269,263	67.9%
2012	823,419	126,148	15.3%	148,347	18.0%	548,924	66.7%
2013	758,571	113,523	15.0%	143,041	18.9%	502,007	66.2%
2014	399,307	67,242	16.8%	76,984	19.3%	255,081	63.9%
2015	649,168	107,630	16.6%	127,262	19.6%	414,276	63.8%
2016	\$625,350	\$105,735	16.9%	\$119,889	19.2%	\$399,726	63.9%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

**Table S-48**  
**Plans, Participants, and Funding of PBGC-Insured Plans by Funding Ratio (2016)**  
**Single-Employer Program**

Funding Ratio	Plans		Participants <i>(in thousands)</i>		Total Liabilities* <i>(in millions)</i>		Underfunding <i>(in millions)</i>		Overfunding <i>(in millions)</i>	
Less Than 40%	142	0.6%	117	0.4%	\$15,050	0.5%	\$10,193	1.6%	---	---
40% - 49%	348	1.6%	87	0.3%	10,033	0.4%	5,234	0.8%	---	---
50% - 59%	2,013	9.0%	1,119	3.9%	93,849	3.3%	41,240	6.6%	---	---
60% - 69%	5,382	24.1%	6,348	22.2%	620,149	21.8%	212,938	34.1%	---	---
70% - 79%	5,392	24.1%	8,288	29.0%	841,522	29.6%	209,798	33.6%	---	---
80% - 89%	3,422	15.3%	8,558	29.9%	858,421	30.2%	132,025	21.1%	---	---
90% - 99%	1,482	6.6%	2,749	9.6%	293,356	10.3%	\$13,922	2.2%	---	---
100% - 109%	2,241	10.0%	816	2.9%	63,323	2.2%	---	---	\$1,767	11.6%
110% - 119%	454	2.0%	264	0.9%	29,869	1.1%	---	---	4,141	27.1%
120% - 129%	270	1.2%	79	0.3%	6,779	0.2%	---	---	1,495	9.8%
130% - 139%	157	0.7%	84	0.3%	4,645	0.2%	---	---	1,645	10.8%
140% - 149%	125	0.6%	45	0.2%	5,384	0.2%	---	---	2,546	16.7%
150% or More	905	4.1%	74	0.3%	\$4,007	0.1%	---	---	\$3,665	24.0%
<b>Total</b>	<b>22,333</b>	<b>100.0%</b>	<b>28,630</b>	<b>100.0%</b>	<b>\$2,846,388</b>	<b>100.0%</b>	<b>\$625,350</b>	<b>100.0%</b>	<b>\$15,259</b>	<b>100.0%</b>
<b>Underfunded</b>	<b>18,181</b>	<b>81.4%</b>	<b>27,267</b>	<b>95.2%</b>	<b>\$2,732,380</b>	<b>96.0%</b>	<b>\$625,350</b>	<b>100.0%</b>	<b>---</b>	<b>---</b>
<b>Overfunded</b>	<b>4,152</b>	<b>18.6%</b>	<b>1,363</b>	<b>4.8%</b>	<b>\$114,007</b>	<b>4.0%</b>	<b>---</b>	<b>---</b>	<b>\$15,259</b>	<b>100.0%</b>

Source: Form 5500 filings

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-49**  
**Various Measures of Underfunding in PBGC-Insured Plans (1992-2017)**  
**Single-Employer Program**

Year	(A) Form 5500 Filings <i>(in billions)</i>	(B) Variable-Rate Premium <i>(in billions)</i>	(C) Reasonably Possible <i>(in billions)</i>	(D) Total in PBGC-Insured Plans <i>(in billions)</i>
1992	\$47.53	\$31.67	\$12.36	\$74.00
1993	59.62	31.67	13.06	84.20
1994	75.57	34.11	18.23	109.30
1995	37.28	27.89	14.56	61.70
1996	83.07	60.67	22.47	94.50
1997	47.91	46.78	20.73	99.60
1998	49.24	36.00	15.38	87.80
1999	54.23	32.33	17.50	104.70
2000	6.57	16.22	3.79	22.80
2001	38.56	16.33	9.54	39.40
2002	142.57	14.78	34.10	163.90
2003	299.00	33.44	83.92	419.70
2004	321.83	89.33	95.67	452.10
2005	282.95	87.44	108.04	431.80
2006	185.88	61.11	73.30	313.80
2007	114.65	39.78	65.67	225.10
2008	84.93	26.78	46.73	150.00
2009	414.16	77.33	167.86	478.90
2010	448.95	115.90	169.74	514.06
2011	396.35	103.22	227.12	462.80
2012	823.42	166.11	294.63	903.48
2013	758.57	190.88	292.21	831.72
2014	399.30	161.45	167.11	452.94
2015	649.17	186.63	217.70	712.56
2016	\$625.35	234.37	223.28	\$682.17
2017	---	\$202.55	\$238.19	---

Definitions:

- (A) Underfunding calculated from Internal Revenue Service Form 5500 Series Filings. Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Funding information from PBGC premium filings was used in 2008 whenever Form 5500 data was not available. Vested liabilities are used as a proxy for PBGC-guaranteed benefits.
- (B) Underfunding data from PBGC premium filings used to calculate the variable-rate premium. Underfunding is based on vested benefits.
- (C) Underfunding for plan sponsors with less than investment-grade bond ratings. Underfunding is based on estimated vested benefits.
- Estimated total liabilities are based on all plan liabilities, whether vested or not, as reported on the Form 5500. The same adjustment that is applied to and described in the footnote for (D) the group labeled (A) is applied to this group.
- (A), (B) and (D) represent the universe of PBGC-insured plans. Firms and plans included in the column (C) totals may differ from year to year.
- See "Underfunding Measures in Table S-47" in the Pension Insurance Data Book 2005, pp 16-23, for a further explanation of these measures.
- Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-50**  
**Funding of PBGC-Insured Plans by Industry (2016)**  
**Single-Employer Program**

Industry	Industry Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
<b>AGRICULTURE, MINING, AND CONSTRUCTION</b>	<b>74%</b>	<b>\$37,211</b>	<b>1.3%</b>	<b>\$9,835</b>	<b>1.6%</b>	<b>\$162</b>	<b>1.1%</b>
<b>MANUFACTURING</b>	<b>78%</b>	<b>1,326,150</b>	<b>46.6%</b>	<b>301,029</b>	<b>48.1%</b>	<b>3,400</b>	<b>22.3%</b>
Chemical and Allied Products	78%	183,454	6.5%	41,251	6.6%	333	2.2%
Computer and Electronic Products	81%	78,585	2.8%	16,908	2.7%	1,901	12.5%
Electrical Equipment	69%	127,640	4.5%	39,420	6.3%	4	0.0%
Fabricated Metal Products	74%	29,721	1.0%	7,903	1.3%	88	0.6%
Food, Beverage and Tobacco Products	83%	98,458	3.5%	17,067	2.7%	189	1.2%
Machinery Manufacturing	77%	67,042	2.4%	15,259	2.4%	89	0.6%
Motor Vehicle Equipment	82%	185,985	6.5%	33,552	5.4%	152	1.0%
Paper Manufacturing	76%	35,609	1.3%	8,411	1.4%	40	0.3%
Petroleum and Coal Products	79%	74,291	2.6%	15,552	2.5%	7	0.1%
Primary Metals	70%	46,472	1.6%	13,959	2.2%	3	0.0%
Other Manufacturing	77%	398,893	14.0%	91,747	14.7%	595	3.9%
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>75%</b>	<b>338,583</b>	<b>11.9%</b>	<b>85,449</b>	<b>13.7%</b>	<b>795</b>	<b>5.2%</b>
Air Transportation	62%	72,658	2.6%	27,417	4.4%	80	0.5%
Other Transportation	78%	62,916	2.2%	13,874	2.2%	110	0.7%
Public Utilities	79%	203,009	7.1%	44,158	7.1%	605	4.0%
<b>INFORMATION</b>	<b>78%</b>	<b>170,026</b>	<b>6.0%</b>	<b>38,033</b>	<b>6.1%</b>	<b>195</b>	<b>1.3%</b>
<b>WHOLESALE TRADE</b>	<b>76%</b>	<b>51,491</b>	<b>1.8%</b>	<b>12,740</b>	<b>2.0%</b>	<b>124</b>	<b>0.8%</b>
<b>RETAIL TRADE</b>	<b>75%</b>	<b>44,116</b>	<b>1.6%</b>	<b>11,227</b>	<b>1.8%</b>	<b>59</b>	<b>0.4%</b>
<b>FINANCE, INSURANCE AND REAL ESTATE</b>	<b>88%</b>	<b>333,024</b>	<b>11.7%</b>	<b>47,498</b>	<b>7.6%</b>	<b>7,616</b>	<b>49.9%</b>
<b>SERVICES</b>	<b>79%</b>	<b>521,863</b>	<b>18.3%</b>	<b>113,693</b>	<b>18.2%</b>	<b>2,748</b>	<b>18.0%</b>
Health Care	74%	199,228	7.0%	52,203	8.4%	129	0.9%
Other Services	82%	322,635	11.3%	61,490	9.8%	2,619	17.2%
<b>NON-PROFIT ORGANIZATIONS</b>	<b>76%</b>	<b>23,925</b>	<b>0.8%</b>	<b>5,845</b>	<b>0.9%</b>	<b>159</b>	<b>1.0%</b>
<b>TOTAL</b>	<b>79%</b>	<b>\$2,846,388</b>	<b>100.0%</b>	<b>\$625,350</b>	<b>100.0%</b>	<b>\$15,259</b>	<b>100.0%</b>

Sources: Form 5500 filings

Due to rounding of individual items, numbers and percentages may not add up to totals.

Industry classifications are based on principal business activity codes used in the North American Industry Classification System.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-51 (1/2)**  
**Pension Funding Data for PBGC-Insured Plans by Region and State (2016)**  
**Single-Employer Program**

Region / State	Overfunded			Underfunded			Total	
	Assets (in millions)	Liabilities* (in millions)	Overfunding (in millions)	Assets (in millions)	Liabilities* (in millions)	Underfunding (in millions)	Assets (in millions)	Liabilities* (in millions)
<b>NEW ENGLAND</b>	<b>\$6,044</b>	<b>\$5,087</b>	<b>\$957</b>	<b>\$203,406</b>	<b>\$274,458</b>	<b>\$71,052</b>	<b>\$209,449</b>	<b>\$279,545</b>
Connecticut	677	543	134	80,036	104,268	24,232	80,713	104,812
Maine	227	125	102	3,939	5,381	1,442	4,166	5,506
Massachusetts	1,033	819	214	107,107	148,843	41,736	108,140	149,663
New Hampshire	78	67	11	2,624	3,701	1,077	2,703	3,768
Rhode Island	3,936	3,455	481	8,446	10,656	2,210	12,383	14,111
Vermont	92	78	15	1,253	1,608	355	1,345	1,686
<b>MID-ATLANTIC</b>	<b>42,522</b>	<b>35,770</b>	<b>6,752</b>	<b>636,232</b>	<b>814,325</b>	<b>178,093</b>	<b>678,754</b>	<b>850,095</b>
Delaware	29	15	14	17,905	26,945	9,041	17,934	26,961
District of Columbia	151	125	26	13,119	17,868	4,749	13,270	17,993
Maryland	690	401	289	45,243	66,268	21,024	45,933	66,669
New Jersey	29,590	26,015	3,575	163,085	196,520	33,435	192,675	222,535
New York	4,035	3,421	615	202,210	246,830	44,620	206,245	250,250
Pennsylvania	1,472	1,291	181	108,612	145,013	36,401	110,084	146,304
Virginia	6,412	4,368	2,044	84,712	112,913	28,202	91,123	117,281
West Virginia	143	134	9	1,346	1,968	622	1,489	2,102
<b>SOUTHEAST</b>	<b>31,166</b>	<b>28,373</b>	<b>2,793</b>	<b>253,495</b>	<b>338,513</b>	<b>85,018</b>	<b>284,661</b>	<b>366,886</b>
Alabama	1,497	1,378	119	4,354	5,680	1,326	5,851	7,058
Arkansas	125	102	23	3,398	4,458	1,060	3,522	4,559
Florida	4,164	3,478	686	23,611	32,936	9,325	27,775	36,414
Georgia	320	276	43	86,460	116,813	30,353	86,780	117,089
Kentucky	237	195	42	8,738	11,492	2,755	8,974	11,687
Louisiana	155	117	38	18,935	26,222	7,287	19,090	26,339
Mississippi	712	672	40	1,135	1,439	304	1,847	2,111
North Carolina	22,996	21,443	1,552	38,729	49,121	10,392	61,725	70,564
South Carolina	134	86	48	12,017	16,985	4,968	12,151	17,071
Tennessee	828	626	202	56,117	73,368	17,250	56,945	73,994
<b>GREAT LAKES</b>	<b>21,846</b>	<b>20,374</b>	<b>1,473</b>	<b>516,764</b>	<b>654,611</b>	<b>137,847</b>	<b>538,610</b>	<b>674,985</b>
Illinois	7,859	7,424	435	147,209	188,256	41,047	155,068	195,679
Indiana	505	453	52	21,748	26,324	4,576	22,253	26,777
Michigan	1,214	1,120	94	175,547	219,779	44,232	176,762	220,899
Minnesota	2,761	2,578	183	62,280	75,201	12,921	65,041	77,778
Ohio	4,860	4,495	365	75,067	101,005	25,938	79,928	105,500
Wisconsin	\$4,647	\$4,305	\$342	\$34,913	\$44,046	\$9,133	\$39,560	\$48,351

Sources: Form 5500 filings

Due to rounding of individual items, numbers may not add up to totals or across columns.

Funding data is reported by state or country of plan administration.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.

**Table S-51 (2/2)**  
**Pension Funding Data for PBGC-Insured Plans by Region and State (2016)**  
**Single-Employer Program**

Region / State	Overfunded			Underfunded			Total	
	Assets (in millions)	Liabilities* (in millions)	Overfunding (in millions)	Assets (in millions)	Liabilities* (in millions)	Underfunding (in millions)	Assets (in millions)	Liabilities* (in millions)
<b>MIDWEST</b>	<b>\$7,007</b>	<b>\$6,428</b>	<b>\$579</b>	<b>\$61,669</b>	<b>\$81,553</b>	<b>\$19,884</b>	<b>\$68,676</b>	<b>87,981</b>
Iowa	162	104	57	22,162	28,415	6,252	22,324	28,519
Kansas	1,867	1,651	216	7,344	10,652	3,308	9,211	12,303
Missouri	1,210	1,023	187	26,573	35,076	8,503	27,783	36,099
Nebraska	3,746	3,634	113	4,050	5,271	1,222	7,796	8,905
North Dakota	14	10	4	852	1,175	323	866	1,185
South Dakota	8	6	2	688	964	276	696	969
<b>SOUTHWEST</b>	<b>11,549</b>	<b>9,929</b>	<b>1,621</b>	<b>203,527</b>	<b>265,235</b>	<b>61,708</b>	<b>\$215,077</b>	<b>275,164</b>
Arizona	522	394	129	9,381	12,638	3,258	9,903	13,032
New Mexico	82	71	11	10,033	12,623	2,590	10,115	12,694
Oklahoma	21	14	8	5,498	7,370	1,872	5,519	7,384
Texas	10,924	9,450	1,474	178,616	232,604	53,988	189,540	242,054
<b>ROCKY MOUNTAIN</b>	<b>311</b>	<b>250</b>	<b>61</b>	<b>26,293</b>	<b>33,636</b>	<b>7,343</b>	<b>\$26,604</b>	<b>33,886</b>
Colorado	56	45	12	9,116	12,135	3,019	9,173	12,180
Idaho	38	28	10	2,554	3,453	899	2,592	3,481
Montana	2	2	1	730	1,022	291	732	1,023
Nevada	10	8	2	2,235	2,964	730	2,245	2,972
Utah	191	157	33	11,527	13,885	2,358	11,717	14,042
Wyoming	13	10	3	131	177	46	144	187
<b>PACIFIC</b>	<b>8,820</b>	<b>7,796</b>	<b>1,024</b>	<b>201,734</b>	<b>264,377</b>	<b>62,643</b>	<b>\$210,554</b>	<b>272,173</b>
Alaska	177	168	9	368	563	195	545	731
California	4,111	3,636	475	118,603	152,477	33,874	122,714	156,112
Hawaii	342	312	29	3,840	5,540	1,700	4,182	5,852
Oregon	584	534	50	9,362	12,624	3,262	9,946	13,158
Washington	3,607	3,147	459	69,561	93,173	23,612	73,168	96,320
<b>U.S. TERRITORIES</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>2,718</b>	<b>4,030</b>	<b>1,312</b>	<b>\$2,718</b>	<b>4,030</b>
Puerto Rico	---	---	---	2,660	3,939	1,279	2,660	3,939
Virgin Islands	---	---	---	51	80	29	51	80
Other	---	---	---	7	10	3	7	10
<b>FOREIGN COUNTRIES</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>1,193</b>	<b>1,643</b>	<b>450</b>	<b>1,193</b>	<b>1,643</b>
<b>TOTAL</b>	<b>\$129,266</b>	<b>\$114,007</b>	<b>\$15,259</b>	<b>\$2,107,030</b>	<b>\$2,732,380</b>	<b>\$625,350</b>	<b>\$2,236,296</b>	<b>\$2,846,388</b>

Sources: Form 5500 filings

Due to rounding of individual items, numbers may not add up to totals or across columns.

Funding data is reported by state or country of plan administration.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 for non-annuitants and 5.32 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 9 for annuitants.



**Table S-52**  
**PBGC Pension Data by Region and State\***  
**Single-Employer Program**

Region / State	Claims 1975-2017		Coverage 2017		Benefits Paid 2017		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
<b>NEW ENGLAND</b>	<b>515</b>	<b>\$1,437,984,578</b>	<b>1,330</b>	<b>1,905,258</b>	<b>38,348</b>	<b>\$243,288,422</b>	<b>\$500</b>
Connecticut	153	241,718,913	481	949,917	8,624	48,786,853	445
Maine	21	130,565,584	50	56,417	3,418	23,384,589	533
Massachusetts	251	863,216,437	602	731,230	17,097	114,849,831	530
New Hampshire	32	69,403,135	70	27,192	5,185	34,564,779	527
Rhode Island	48	118,599,163	82	129,500	2,183	12,477,136	453
Vermont	10	14,481,345	45	11,002	1,841	9,225,235	401
<b>MID-ATLANTIC</b>	<b>1,562</b>	<b>14,962,598,690</b>	<b>6,486</b>	<b>9,580,051</b>	<b>202,931</b>	<b>1,304,987,637</b>	<b>509</b>
Delaware	20	53,462,866	65	122,268	2,238	14,893,090	536
District of Columbia	64	194,540,491	184	794,088	484	3,276,051	507
Maryland	79	181,412,113	454	1,118,154	16,018	131,263,832	651
New Jersey	273	924,488,896	1,156	1,832,518	21,659	138,074,034	501
New York	559	3,659,631,453	2,956	3,125,806	49,719	345,604,786	545
Pennsylvania	442	6,097,380,164	1,155	1,584,498	76,620	468,652,183	486
Virginia	73	3,049,222,902	426	965,043	21,267	108,429,587	404
West Virginia	52	802,459,806	90	37,676	14,926	94,794,073	507
<b>SOUTHEAST</b>	<b>503</b>	<b>6,052,151,328</b>	<b>2,816</b>	<b>3,259,538</b>	<b>217,878</b>	<b>1,249,314,611</b>	<b>454</b>
Alabama	35	218,111,139	165	87,695	20,976	112,022,003	416
Arkansas	24	46,124,282	74	21,109	4,289	18,018,136	336
Florida	120	1,146,209,750	906	340,974	56,279	417,789,887	585
Georgia	86	2,412,621,540	486	1,166,733	30,508	184,805,477	480
Kentucky	33	122,312,895	195	106,468	9,751	43,995,047	357
Louisiana	26	82,662,272	138	147,574	6,049	31,601,250	412
Mississippi	15	79,140,744	79	24,673	7,702	43,540,094	445
North Carolina	62	515,783,505	367	708,409	41,412	200,472,440	386
South Carolina	26	171,448,651	159	95,672	19,191	88,391,903	362
Tennessee	76	1,257,736,552	247	560,231	21,721	108,678,376	408
<b>GREAT LAKES</b>	<b>1,440</b>	<b>22,466,098,791</b>	<b>4,286</b>	<b>6,629,288</b>	<b>223,896</b>	<b>1,699,869,663</b>	<b>595</b>
Illinois	344	9,274,345,047	1,206	2,464,648	41,794	308,780,137	585
Indiana	138	1,593,886,964	334	313,678	31,839	296,042,819	728
Michigan	383	6,193,977,170	727	1,333,076	48,584	406,758,497	651
Minnesota	47	196,779,147	419	986,102	9,178	58,773,205	512
Ohio	427	4,817,616,840	1,216	1,114,814	79,678	552,433,778	543
Wisconsin	101	\$389,493,623	384	416,970	12,823	\$77,081,228	\$480

Sources: PBGC Fiscal Year Closing File, 2012 update of the Retirement Expectations and Pension Plan Coverage Topic Module (Wave 11) of the 2008 Survey of Income and Program Participation (SIPP), PBGC Case Management System, PBGC Premium Filings, PBGC Participant System (PRISM), and fiscal year calculations.

Benefit data presented in this table are based primarily on data provided by the PBGC's Payment System (PPS).

Due to rounding of individual items, numbers may not add up to totals.

\*Claims and plan coverage data by state of plan administration; benefits and participant coverage data by state of payee residence.

**Table S-52 (Continued)**  
**PBGC Pension Data by Region and State\***  
**Single-Employer Program**

Region / State	Claims 1975-2017		Coverage 2017		Benefits Paid 2017		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
<b>MIDWEST</b>	<b>179</b>	<b>\$1,280,346,106</b>	<b>765</b>	<b>822,575</b>	<b>29,566</b>	<b>\$166,119,387</b>	<b>\$461</b>
Iowa	60	142,020,600	176	122,223	5,788	18,099,602	248
Kansas	15	384,760,342	105	180,497	5,355	46,786,234	693
Missouri	92	741,218,020	325	431,747	15,993	88,721,260	468
Nebraska	10	11,975,200	98	70,351	1,654	7,353,571	355
North Dakota	1	119,183	39	8,752	143	556,921	301
South Dakota	1	252,760	22	9,005	633	4,601,800	573
<b>SOUTHWEST</b>	<b>210</b>	<b>1,613,582,203</b>	<b>1,626</b>	<b>1,713,142</b>	<b>40,466</b>	<b>276,223,075</b>	<b>541</b>
Arizona	32	25,434,683	334	136,924	10,339	83,386,349	636
New Mexico	9	25,958,358	59	24,647	2,051	12,173,844	475
Oklahoma	24	52,002,681	116	63,039	4,216	21,899,303	409
Texas	145	1,510,186,480	1,117	1,488,532	23,860	158,763,579	529
<b>ROCKY MOUNTAIN</b>	<b>61</b>	<b>302,931,607</b>	<b>653</b>	<b>472,788</b>	<b>20,669</b>	<b>192,356,219</b>	<b>736</b>
Colorado	22	207,549,312	294	182,909	10,165	102,784,470	802
Idaho	8	12,748,590	59	54,968	2,049	14,257,576	547
Montana	5	3,822,040	39	5,474	663	6,048,230	724
Nevada	13	6,506,466	117	109,638	4,796	44,914,689	735
Utah	12	72,214,312	116	118,010	2,618	21,067,051	636
Wyoming	1	90,887	28	1,789	378	3,284,203	688
<b>PACIFIC</b>	<b>355</b>	<b>1,384,544,127</b>	<b>4,496</b>	<b>3,073,343</b>	<b>62,398</b>	<b>539,332,361</b>	<b>687</b>
Alaska	4	50,534,607	27	16,381	598	3,995,489	535
California	268	816,078,975	3,803	1,959,815	42,145	353,179,076	667
Hawaii	27	154,722,527	146	78,525	4,558	44,430,965	768
Oregon	24	49,383,000	222	196,353	4,457	33,020,120	588
Washington	32	313,825,019	298	822,269	10,640	104,706,712	782
<b>PUERTO RICO</b>	<b>15</b>	<b>24,470,605</b>	<b>15</b>	<b>31,166</b>	<b>3,316</b>	<b>11,218,399</b>	<b>259</b>
<b>U.S. TERRITORIES</b>	<b>---</b>	<b>---</b>	<b>7</b>	<b>885</b>	<b>18</b>	<b>97,089</b>	<b>423</b>
<b>FOREIGN COUNTRIES</b>	<b>5</b>	<b>4,461,713</b>	<b>40</b>	<b>21,966</b>	<b>2,621</b>	<b>16,280,977</b>	<b>488</b>
<b>TOTAL</b>	<b>4,845</b>	<b>\$49,529,169,749</b>	<b>22,520</b>	<b>27,510,000</b>	<b>842,108</b>	<b>\$5,699,087,839</b>	<b>\$535</b>

Sources: PBGC Fiscal Year Closing File, 2012 update of the Retirement Expectations and Pension Plan Coverage Topic Module (Wave 11) of the 2008 Survey of Income and Program Participation (SIPP), PBGC Case Management System, PBGC Premium Filings, PBGC Participant System (PRISM), and fiscal year calculations.

Benefit data presented in this table are based primarily on data provided by the PBGC's Payment System (PPS).

Due to rounding of individual items, numbers may not add up to totals.

\*Claims and plan coverage data by state of plan administration; benefits and participant coverage data by state of payee residence.

**Table S-53**  
**PBGC Maximum Guaranteed Benefits (1990-2019)**  
**Single-Employer Program**

Calendar Year of Plan Termination	Maximum Monthly Guarantee	Maximum Annual Guarantee
1990	\$2,164.77	\$25,977.24
1991	2,250.00	27,000.00
1992	2,352.27	28,227.24
1993	2,437.50	29,250.00
1994	2,556.82	30,681.84
1995	2,573.86	30,886.32
1996	2,642.05	31,704.60
1997	2,761.36	33,136.32
1998	2,880.68	34,568.16
1999	3,051.14	36,613.68
2000	3,221.59	38,659.08
2001	3,392.05	40,704.60
2002	3,579.55	42,954.60
2003	3,664.77	43,977.24
2004	3,698.86	44,386.32
2005	3,801.14	45,613.68
2006	3,971.59	47,659.08
2007	4,125.00	49,500.00
2008	4,312.50	51,750.00
2009	4,500.00	54,000.00
2010	4,500.00	54,000.00
2011	4,500.00	54,000.00
2012	4,653.41	55,840.92
2013	4,789.77	57,477.24
2014	4,943.18	59,318.16
2015	5,011.36	60,136.32
2016	5,011.36	60,136.32
2017	5,369.32	64,431.84
2018	5,420.45	65,045.40
2019	\$5,607.95	\$67,295.40

The Employee Retirement Income Security Act of 1974 (ERISA) mandates that the maximum guaranteed amounts be adjusted annually based on changes in the Social Security contribution and benefit base.

The maximum guarantee shown applies to workers who retire at age 65. PBGC increases the maximum guarantee for people retiring later than age 65 and reduces it for retirees taking earlier retirement or electing survivor's benefits.

In some instances, where a pension plan has adequate resources or PBGC recovers sufficient amounts, a participant may receive benefits in excess of the maximum guarantee.

The Pension Protection Act of 2006 provides that if a plan terminates while the sponsor is in a bankruptcy entered into after September 16, 2006, the applicable guarantees will generally be those for the year the sponsor entered bankruptcy regardless of the year the plan actually terminates.

**Table M-1  
Net Financial Position of PBGC's (1980-2018)  
Multiemployer Program**

<b>Fiscal Year</b>	<b>Assets (in millions)</b>	<b>Liabilities (in millions)</b>	<b>Net Positions (in millions)</b>
1980	\$21	\$30	-\$9
1985	78	52	27
1990	190	58	132
1995	477	285	192
1996	505	381	124
1997	596	377	219
1998	745	404	341
1999	692	493	199
2000	694	427	267
2001	807	691	116
2002	944	786	158
2003	1,000	1,261	-261
2004	1,070	1,306	-236
2005	1,160	1,495	-335
2006	1,166	1,905	-739
2007	1,197	2,152	-955
2008	1,327	1,800	-473
2009	1,459	2,328	-869
2010	1,628	3,064	-1,436
2011	1,739	4,509	-2,770
2012	1,807	7,044	-5,237
2013	1,719	9,977	-8,258
2014	1,769	44,203	-42,434
2015	1,924	54,208	-52,284
2016	2,204	61,037	-58,833
2017	2,262	67,314	-65,052
2018	\$2,311	\$56,187	-\$53,876

Source: PBGC Annual Reports

Due to rounding of individual items, numbers may not add up across columns.

**Table M-2**  
**PBGC Premium Revenue, Benefit Payments, and Expenses (1980-2018)**  
**Multiemployer Program**

Fiscal Year	Total Premium Revenue (in millions)	Benefit Payments (in millions)	Net Financial Assistance (in millions)	Administrative & Investment Expenses (in millions)	Premiums Minus Benefits, Financial Assistance and Expenses Paid (in millions)
1980	\$5	\$4	---	\$2	-\$2
1985	14	4	---	4	7
1990	21	2	---	2	17
1995	22	2	\$4	*	16
1996	22	2	4	*	16
1997	23	1	4	*	18
1998	23	1	2	*	20
1999	23	1	19	*	3
2000	24	1	91	*	-68
2001	24	1	5	*	18
2002	25	1	5	*	19
2003	25	1	5	*	19
2004	27	1	10	*	16
2005	26	1	14	*	12
2006	58	1	70	*	-13
2007	81	*	72	*	9
2008	90	*	85	*	5
2009**	95	*	86	*	9
2010	93	*	97	12	-16
2011	92	*	114	14	-36
2012	92	*	95	20	-23
2013	110	*	89	25	-4
2014	122	*	97	18	7
2015	212	*	103	32	77
2016	282	*	113	39	130
2017	291	*	141	42	108
2018	\$292	*	\$153	\$41	\$98

Source: PBGC Annual Reports

Due to rounding of individual items, numbers may not add up across columns.

\* Less than \$500,000.

\*\*Beginning in FY 2009, PBGC reports premium income net of bad debt expense for premium, interest, and penalties.

**Table M-3  
PBGC Payees and Benefit Payments (Pre-MPPAA Plans, 1980-2017)  
Multiemployer Program**

Fiscal Year	Periodic Payees in Year*	Periodic Pension Payments		
		Total <i>(in millions)</i>	Average Monthly Payment	Median Monthly Payment
1980	4,100	\$4	\$77	\$45
1985	3,100	4	91	45
1990	2,170	2	97	50
1995	1,300	2	102	55
1996	1,130	2	104	55
1997	1,000	1	102	55
1998	855	1	104	55
1999	738	1	106	62
2000	626	1	109	62
2001	510	1	112	77
2002	463	1	114	82
2003	389	1	117	90
2004	324	1	135	115
2005	279	\$1	120	102
2006	238	**	120	105
2007	203	**	126	114
2008	166	**	127	114
2009	134	**	127	114
2010	110	**	136	150
2011	97	**	137	150
2012	74	**	139	150
2013	61	**	134	150
2014	50	**	138	150
2015	39	**	137	150
2016	31	**	130	115
2017	23	**	\$128	\$115

\*These payees were in the 10 multiemployer plans PBGC trusted prior to October 1980. The Multiemployer Pension Plan Amendments Act of 1980 (MPPAA) changed PBGC's responsibility from trusteeship of troubled plans to providing financial assistance (loans) to insolvent multiemployer plans.

This table is based primarily on data provided by the PBGC's Payment System (PPS).

\*\*Less than \$500,000.

During FY 2016 PBGC completed a payment system conversion. The figures presented are based on a reconciliation of the two systems.

**Table M-4  
PBGC Financial Assistance to Insolvent Plans (Post-MPPAA Plans, 1981-2017)  
Multiemployer Program**

Year	Plans Receiving Financial Assistance <sup>(1)</sup>	Total Amount of Financial Assistance (in millions)	Plans Receiving a Lump-Sum Payment <sup>(2)</sup>	Amount of Lump-Sum Payment (in millions)	Plans Receiving Periodic Payments <sup>(1)</sup>	Amount of Periodic Payments (in millions)	Repayments of Past Financial Assistance (in millions)
1981 - 1994	7	\$3	---	---	7	\$3	---
1995	9	4	---	---	9	4	---
1996	12	4	---	---	12	4	---
1997	14	4	---	---	14	4	---
1998	18	5	---	---	18	5	\$3
1999	21	19	1	\$14	20	5	---
2000	21	91	2	87	19	5	---
2001	22	5	1 <sup>(3)</sup>	---	22	4	---
2002	23	5	---	---	23	5	---
2003	24	5	1	---	23	5	---
2004	27	10	1 <sup>(3)</sup>	---	27	10	---
2005	29	14	1 <sup>(3)</sup>	1	28	13	---
2006	33	70	1	---	32	70	---
2007	36	72	3 <sup>(3)</sup>	1	36	71	---
2008	42	85	5 <sup>(4)</sup>	6	40	79	---
2009	43 <sup>(5)</sup>	86	4 <sup>(3)</sup>	7	41	78	---
2010	50	97	7 <sup>(6)</sup>	10	44	87	---
2011	49	114	5 <sup>(4)</sup>	14	47	100	---
2012	49	95	5	1	44	94	---
2013	44	89	---	---	44	89	---
2014	53	97	---	---	53	97	---
2015	58	103	2	1	57	101	---
2016	65	113	---	---	65	113	---
2017	72	141	---	---	72	141	---
<b>Total<sup>(7)</sup></b>	<b>100</b>	<b>\$1,331</b>	<b>39</b>	<b>\$142</b>	<b>89</b>	<b>\$1,189</b>	<b>\$3</b>

Sources: PBGC Annual Reports and internal calculations.

(1) A number of plans received financial assistance in more than one year.

(2) Lump-sum payments were made to these insolvent multiemployer plans to facilitate mergers and closeouts.

(3) These plans received periodic payments before receiving lump-sum payments.

(4) Three of these five plans received periodic payments before receiving lump-sum payments.

(5) Two of these plans received small lump-sum payments to finalize closeouts initiated in 2008. These two plans are not included with plans receiving a lump-sum payment for 2009.

(6) Six of these seven plans received periodic payments before receiving lump-sum payments.

(7) Total for plan columns represents the total number of multiemployer plans that ever received the stated type of financial assistance from PBGC's Multiemployer Insurance Program.

(8) Only one plan has repaid any of its past financial assistance. That plan repaid only the principal amount of the loans it received.

During FY16 PBGC completed a payment system conversion. The figures presented are based on a reconciliation of the two systems.

**Table M-5**  
**PBGC-Insured Plan Participants (1980-2018)**  
**Multiemployer Program**  
*(in thousands)*

Year	Total Insured Participants	In Plans with 10,000 or More Participants	In Plans with 5,000-9,999 Participants	In Plans with 2,500-4,999 Participants	In Plans with 1,000-2,499 Participants	In Plans with 500-999 Participants	In Plans with 250-499 Participants	In Plans with Fewer than 250 Participants
1980	7,996	5,072	925	751	731	299	147	71
1985	8,208	5,376	857	761	729	283	136	66
1990	8,533	5,731	891	757	695	290	121	48
1995	8,632	5,986	855	709	661	264	112	45
1996	8,649	5,976	904	713	636	266	106	48
1997	8,741	6,058	906	718	641	263	110	44
1998	8,876	6,212	930	675	650	259	108	42
1999	8,990	6,323	935	666	663	260	104	39
2000	9,132	6,464	953	683	640	261	97	35
2001	9,423	6,776	927	733	617	240	96	33
2002	9,630	6,970	930	739	647	227	87	29
2003	9,699	7,127	885	715	642	228	75	27
2004	9,828	7,248	897	723	643	217	74	26
2005	9,887	7,286	938	709	631	224	74	25
2006	9,911	7,320	944	709	627	219	68	24
2007	10,031	7,504	884	696	644	212	67	24
2008	10,170	7,589	930	716	639	205	67	24
2009	10,397	7,864	907	708	628	203	64	23
2010	10,414	7,921	895	701	612	199	63	23
2011	10,281	7,867	827	699	600	202	64	22
2012	10,373	7,972	823	689	607	200	61	21
2013	10,399	7,971	835	700	613	202	58	21
2014	10,304	7,910	827	693	586	207	59	22
2015	10,305	7,944	822	667	601	192	59	21
2016	10,465	8,141	780	693	589	184	60	18
2017	10,565	8,256	768	708	580	179	55	19
2018	10,633	8,327	794	677	579	180	57	19

Source: PBGC Premium Filings

Due to rounding of individual items, numbers may not add up to totals.



**Table M-6  
PBGC-Insured Plans (1980-2018)  
Multiemployer Program**

Year	Total Insured Plans	Insured Plans with 10,000 or More Participants	Insured Plans with 5,000-9,999 Participants	Insured Plans with 2,500-4,999 Participants	Insured Plans with 1,000-2,499 Participants	Insured Plans with 500-999 Participants	Insured Plans with 250-499 Participants	Insured Plans with Fewer than 250 Participants
1980	2,244	120	131	211	452	420	404	506
1985	2,188	137	124	216	459	402	376	474
1990	1,983	140	127	214	428	402	332	340
1995	1,879	144	123	205	409	368	303	327
1996	1,876	143	132	206	400	373	287	335
1997	1,846	145	131	206	401	365	296	302
1998	1,817	147	136	193	400	357	290	294
1999	1,800	149	137	189	403	357	279	286
2000	1,744	152	138	197	388	357	258	254
2001	1,707	159	133	210	377	327	254	247
2002	1,671	163	133	212	397	316	233	217
2003	1,612	166	129	206	391	321	202	197
2004	1,586	166	129	208	393	305	198	187
2005	1,571	164	134	204	381	309	195	184
2006	1,538	162	132	203	380	305	184	172
2007	1,522	167	124	197	388	293	177	176
2008	1,517	167	130	205	388	283	176	168
2009	1,488	170	128	202	381	278	169	160
2010	1,475	168	126	199	372	273	169	168
2011	1,461	172	116	198	366	277	170	162
2012	1,448	174	117	196	368	274	165	154
2013	1,435	171	115	195	370	277	157	150
2014	1,425	168	114	195	355	283	158	152
2015	1,396	167	114	186	363	262	156	148
2016	1,375	171	109	195	364	250	160	126
2017	1,374	176	108	200	361	249	147	133
2018	1,373	177	114	192	358	246	151	135

Source: PBGC Premium Filings

Due to rounding of individual items, numbers may not add up to totals.

**Table M-7  
PBGC-Insured Plan Participants by Participant Status (1980-2016)  
Multiemployer Program**

Year	Active Participants	Retired Participants	Separated Vested Participants
1980	75.9%	17.7%	6.5%
1985	66.1%	22.6%	11.4%
1990	58.6%	25.2%	16.2%
1995	52.4%	28.9%	18.7%
1996	52.1%	29.1%	18.8%
1997	52.2%	28.9%	18.9%
1998	51.2%	30.4%	18.3%
1999	50.9%	30.5%	18.6%
2000	51.1%	30.1%	18.7%
2001	49.5%	29.6%	20.9%
2002	48.1%	29.7%	22.2%
2003	47.1%	30.2%	22.8%
2004	46.0%	30.8%	23.2%
2005	45.7%	30.8%	23.5%
2006	45.3%	30.9%	23.8%
2007	44.6%	30.9%	24.5%
2008	43.8%	32.0%	24.2%
2009	41.3%	32.1%	26.7%
2010*	39.1%	33.1%	27.7%
2011	38.3%	33.7%	27.9%
2012	36.6%	35.1%	28.3%
2013	36.8%	35.3%	27.9%
2014	36.3%	35.3%	28.4%
2015	36.1%	35.5%	28.4%
2016	36.4%	35.4%	28.2%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, percentages may not add up to 100%.

\*2010 figures are estimates from PBGC internal calculations.

**Table M-8  
PBGC-Insured Plans and Participants by Industry (2016)  
Multiemployer Program**

Industry	Insured Plans		Insured Participants	
<b>AGRICULTURE</b>	<b>8</b>	<b>0.6%</b>	<b>21,096</b>	<b>0.2%</b>
<b>MINING</b>	<b>5</b>	<b>0.4%</b>	<b>104,964</b>	<b>1.0%</b>
<b>CONSTRUCTION</b>	<b>762</b>	<b>55.4%</b>	<b>3,827,774</b>	<b>36.6%</b>
Building Construction	74	5.4%	479,762	4.6%
Heavy Construction	62	4.5%	566,287	5.4%
Plumbing, Heating, and Air Conditioning	144	10.5%	286,889	2.7%
Electrical Work	120	8.7%	851,358	8.1%
Building Finishing Contractors	64	4.7%	409,551	3.9%
Foundation, Structure, and Exterior Work	178	13.0%	728,684	7.0%
Other Construction	120	8.7%	505,243	4.8%
<b>MANUFACTURING</b>	<b>142</b>	<b>10.3%</b>	<b>1,067,471</b>	<b>10.2%</b>
Food and Tobacco Products	27	2.0%	206,045	2.0%
Apparel and Textile Products	6	0.4%	31,114	0.3%
Paper and Allied Products	5	0.4%	81,396	0.8%
Printing and Publishing	23	1.7%	145,441	1.4%
Machinery and Computer Equipment	4	0.3%	275,287	2.6%
Electrical and Electronic Equipment	8	0.6%	7,457	0.1%
Furniture and Fixtures	4	0.3%	13,078	0.1%
Other Manufacturing	65	4.7%	307,653	2.9%
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>140</b>	<b>10.2%</b>	<b>1,564,930</b>	<b>15.0%</b>
Trucking	76	5.5%	1,406,906	13.4%
Water Transportation	39	2.8%	93,340	0.9%
Other Transportation and Public Utilities	25	1.8%	64,684	0.6%
<b>INFORMATION</b>	<b>33</b>	<b>2.4%</b>	<b>244,538</b>	<b>2.3%</b>
<b>WHOLESALE TRADE</b>	<b>23</b>	<b>1.7%</b>	<b>52,506</b>	<b>0.5%</b>
<b>RETAIL TRADE</b>	<b>81</b>	<b>5.9%</b>	<b>1,497,411</b>	<b>14.3%</b>
<b>SERVICES</b>	<b>181</b>	<b>13.2%</b>	<b>2,084,465</b>	<b>19.9%</b>
Administrative/Support	43	3.1%	463,599	4.4%
Health Care/Social Assistance	17	1.2%	532,186	5.1%
Accommodation/Food Service	27	2.0%	675,154	6.5%
Other Services	94	6.8%	413,526	4.0%
<b>TOTAL</b>	<b>1,375</b>	<b>100.0%</b>	<b>10,465,155</b>	<b>100.0%</b>

Source: Form 5500 filings

Due to rounding of individual items, percentages may not add up to totals.

Industry classifications are based on principal business activity codes used in the North American Industry Classification System. However, whenever a sponsor indicated its activity as "Insurance & Employee Benefit Funds," a code covering the principal activity of plan participants was determined and substituted.

**Table M-9  
Funding of PBGC-Insured Plans (1980-2016)  
Multiemployer Program**

<b>Beginning of Year</b>	<b>Assets (in millions)</b>	<b>Liabilities* (in millions)</b>	<b>Funding Ratio</b>	<b>Underfunding (in millions)</b>	<b>Overfunding (in millions)</b>	<b>PBGC Rate</b>
1980	\$40,363	\$52,123	77%	\$17,887	\$6,126	8.50%
1985	88,182	75,942	116%	6,432	18,672	9.75%
1990	166,348	156,149	107%	11,574	21,773	7.25%
1991	165,734	160,370	103%	13,068	18,432	7.25%
1992	184,670	187,829	98%	17,835	14,676	6.25%
1993	197,461	202,177	98%	19,864	15,148	6.40%
1994	206,625	225,982	91%	29,193	9,837	5.65%
1995	209,947	218,458	96%	22,726	14,216	7.15%
1996	238,571	270,551	88%	40,019	8,039	5.30%
1997	268,471	287,569	93%	32,549	13,452	5.80%
1998	304,158	331,017	92%	39,497	12,638	5.40%
1999	320,704	351,021	91%	44,379	14,063	5.30%
2000	356,659	339,741	105%	21,135	38,054	7.00%
2001	351,108	385,272	91%	48,412	14,249	6.40%
2002	330,104	429,329	77%	102,469	3,245	5.70%
2003	308,678	486,845	63%	178,915	748	5.00%
2004	347,471	556,018	62%	209,181	634	4.00%
2005	372,404	598,551	62%	226,717	569	3.90%
2006	388,962	588,629	66%	200,701	1,034	4.50%
2007	430,091	621,289	69%	192,849	1,651	4.99%
2008	440,132	648,069	68%	210,167	2,230	5.37%
2009	326,940	672,513	49%	345,788	215	5.38%
2010	366,333	756,999	48%	391,027	360	4.52%
2011	398,263	798,963	50%	401,080	380	4.26%
2012	392,245	964,299	41%	572,228	174	2.95%
2013	422,942	1,033,758	41%	611,115	299	2.68%
2014	467,985	962,902	49%	495,712	795	3.54%
2015	478,227	1,116,058	43%	638,122	290	2.46%
2016	\$466,984	\$1,105,495	42%	\$638,760	\$248	2.81%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

**Table M-10**  
**Funding of Underfunded PBGC-Insured Plans (1980-2016)**  
**Multiemployer Program**

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Underfunding (in millions)	Funding Ratio	PBGC Rate
1980	\$24,819	\$42,706	\$17,887	58%	8.50%
1985	22,813	29,246	6,432	78%	9.75%
1990	56,512	68,086	11,574	83%	7.25%
1991	62,563	75,631	13,068	83%	7.25%
1992	93,790	111,625	17,835	84%	6.25%
1993	95,331	115,195	19,864	83%	6.40%
1994	128,718	157,911	29,193	82%	5.65%
1995	118,707	141,434	22,726	84%	7.15%
1996	168,347	208,366	40,019	81%	5.30%
1997	152,633	185,182	32,549	82%	5.80%
1998	180,084	219,582	39,498	82%	5.40%
1999	206,568	250,947	44,379	82%	5.30%
2000	110,729	131,864	21,135	84%	7.00%
2001	222,296	270,708	48,412	82%	6.40%
2002	295,338	397,807	102,469	74%	5.70%
2003	304,027	482,942	178,915	63%	5.00%
2004	342,777	551,959	209,182	62%	4.00%
2005	368,382	595,099	226,717	62%	3.90%
2006	381,439	582,139	200,701	66%	4.50%
2007	416,689	609,537	192,849	68%	4.99%
2008	410,109	620,276	210,167	66%	5.37%
2009	325,936	671,725	345,788	49%	5.38%
2010	364,674	755,701	391,027	48%	4.52%
2011	395,062	796,142	401,080	50%	4.26%
2012	391,729	963,957	572,228	41%	2.95%
2013	422,122	1,033,237	611,115	41%	2.68%
2014	462,543	958,255	495,712	48%	3.54%
2015	477,342	1,115,464	638,122	43%	2.46%
2016	\$466,314	\$1,105,074	\$638,760	42%	2.81%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

**Table M-11**  
**Funding of Overfunded PBGC-Insured Plans (1980-2016)**  
**Multiemployer Program**

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Overfunding (in millions)	Funding Ratio	PBGC Rate
1980	\$15,543	\$9,417	\$6,126	165%	8.50%
1985	65,368	46,697	18,672	140%	9.75%
1990	109,836	88,062	21,773	125%	7.25%
1991	103,171	84,739	18,432	122%	7.25%
1992	90,880	76,204	14,676	119%	6.25%
1993	102,130	86,981	15,148	117%	6.40%
1994	77,907	68,070	9,837	114%	5.65%
1995	91,240	77,024	14,216	118%	7.15%
1996	70,224	62,185	8,039	113%	5.30%
1997	115,838	102,386	13,452	113%	5.80%
1998	124,073	111,435	12,638	111%	5.40%
1999	114,136	100,074	14,063	114%	5.30%
2000	245,930	207,877	38,054	118%	7.00%
2001	128,812	114,564	14,249	112%	6.40%
2002	34,766	31,522	3,245	110%	5.70%
2003	4,651	3,903	748	119%	5.00%
2004	4,694	4,060	634	116%	4.00%
2005	4,021	3,452	569	116%	3.90%
2006	7,523	6,489	1,034	116%	4.50%
2007	13,402	11,752	1,651	114%	4.99%
2008	30,022	27,793	2,230	108%	5.37%
2009	1,004	789	215	127%	5.38%
2010	1,659	1,298	360	128%	4.52%
2011	3,202	2,821	380	113%	4.26%
2012	516	342	174	151%	2.95%
2013	820	521	299	157%	2.68%
2014	5,442	4,647	795	117%	3.54%
2015	885	594	290	149%	2.46%
2016	\$670	\$421	\$248	159%	2.81%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

**Table M-12**  
**Concentration of Underfunding in PBGC-Insured Plans (1990-2016)**  
**Multiemployer Program**

Beginning of Year	Total Underfunding (in millions)	10 Plans with the Highest Underfunding (in millions)		Next 40 Plans' Underfunding (in millions)		All Other Plans' Underfunding (in millions)	
1990	\$11,574	\$6,760	58.4%	\$2,791	24.1%	\$2,023	17.5%
1991	13,068	7,906	60.5%	3,123	23.9%	2,038	15.6%
1992	17,835	9,500	53.3%	4,411	24.7%	3,923	22.0%
1993	19,864	10,348	52.1%	4,927	24.8%	4,590	23.1%
1994	29,193	13,575	46.5%	7,012	24.0%	8,606	29.5%
1995	22,726	11,340	49.9%	6,236	27.4%	5,150	22.7%
1996	40,019	16,157	40.4%	10,900	27.2%	12,962	32.4%
1997	32,549	14,666	45.1%	8,166	25.1%	9,717	29.9%
1998	39,497	17,532	44.4%	9,375	23.7%	12,590	31.9%
1999	44,379	19,244	43.4%	10,675	24.1%	14,459	32.6%
2000	21,135	11,493	54.4%	5,255	24.9%	4,387	20.8%
2001	48,412	20,032	41.4%	11,193	23.1%	17,187	35.5%
2002	102,469	34,276	33.5%	24,641	24.1%	43,552	42.5%
2003	178,915	57,902	32.4%	40,600	22.7%	80,413	44.9%
2004	209,181	63,736	30.5%	48,901	23.4%	96,544	46.2%
2005	226,717	68,829	30.4%	52,710	23.3%	105,178	46.4%
2006	200,701	62,461	31.1%	47,822	23.8%	90,418	45.1%
2007	192,849	59,583	30.9%	47,345	24.6%	85,920	44.6%
2008	210,167	58,100	27.6%	55,648	26.5%	96,419	45.9%
2009	345,788	94,545	27.3%	90,896	26.3%	160,347	46.4%
2010	391,027	106,143	27.1%	102,595	26.2%	182,288	46.6%
2011	401,080	108,541	27.1%	108,402	27.0%	184,137	45.9%
2012	572,228	153,240	26.8%	153,269	26.8%	265,719	46.4%
2013	611,115	164,733	27.0%	165,036	27.0%	281,346	46.4%
2014	495,712	136,350	27.5%	136,095	27.4%	223,267	45.0%
2015	638,122	173,391	27.2%	174,980	27.4%	289,751	45.4%
2016	\$638,761	\$175,541	27.5%	\$175,311	27.5%	\$287,909	45.1%

Source: Form 5500 filings

Data for plan years prior to 1999 include only plans with 100 or more participants.

Due to rounding of individual items, numbers may not add up across columns.

Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

**Table M-13**  
**Plans, Participants, and Funding of PBGC-Insured Plans by Funding Ratio (2016)**  
**Multiemployer Program**

Funding Ratio	Plans		Participants		Total Liabilities* <i>(in millions)</i>		Underfunding <i>(in millions)</i>		Overfunding <i>(in millions)</i>	
<b>Receiving Financial Assistance</b>	65		76,451    0.7%		\$263    **		\$256    **		---    ---	
<b>Terminated Booked Plans***</b>	63    4.6%		72,747    0.7%		3,492    0.3%		1,924    0.3%		---    ---	
<b>Less Than 40%</b>	352    25.6%		4,009,341    38.3%		458,738    41.5%		308,647    48.3%		---    ---	
<b>40% - 49%</b>	423    30.8%		3,771,044    36.0%		388,673    35.2%		215,966    33.8%		---    ---	
<b>50% - 59%</b>	292    21.2%		2,118,004    20.2%		217,404    19.7%		100,989    15.8%		---    ---	
<b>60% - 69%</b>	110    8.0%		273,628    2.6%		24,357    2.2%		8,841    1.4%		---    ---	
<b>70% - 79%</b>	36    2.6%		67,583    0.7%		6,929    0.6%		1,823    0.3%		---    ---	
<b>80% - 89%</b>	12    0.9%		12,134    0.1%		789    0.1%		116    **		---    ---	
<b>90% - 99%</b>	9    0.7%		55,593    0.5%		4,430    0.4%		199    **		---    ---	
<b>100% - 109%</b>	4    0.3%		4,089    **		89    **		---    ---		\$1    0.6%	
<b>110% - 119%</b>	1    0.1%		76    **		9    **		---    ---		1    0.4%	
<b>120% - 129%</b>	---    ---		---    ---		---    ---		---    ---		---    ---	
<b>130% - 139%</b>	1    0.1%		754    **		5    **		---    ---		2    0.7%	
<b>140% - 149%</b>	1    0.1%		2,654    **		247    **		---    ---		113    45.5%	
<b>150% or More</b>	5    0.4%		1,057    **		71    **		---    ---		131    52.9%	
<b>Subtotal</b>	1,309    95.3%		10,388,704    99.3%		\$1,105,232    100.0%		\$638,504		\$248    100.0%	
<b>Total</b>	1,374		10,465,155    100.0%		\$1,105,495    100.0%		\$638,760    100.0%		\$248    100.0%	
<b>Underfunded</b>	1,297		10,380,074    99.2%		\$1,104,811    99.9%		\$638,504    100.0%		---    ---	
<b>Overfunded</b>	12		8,630    0.1%		\$421    **		---    ---		\$248    100.0%	

Source: Form 5500 filings

Due to aggregation and rounding of individual items, numbers may not add up to total and percentages may not add up to 100%.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

\*\* Less than 0.05 of one percent.

\*\*\*Terminated Booked plans are plans that are expected to become insolvent and whose liabilities have been included in PBGC's financial position and liabilities. However they are not yet insolvent and may never require assistance. Assets are taken from the Schedule H and liabilities are estimated based on Present Values of outstanding liabilities.



**Table M-14**  
**Funding of PBGC-Insured Plans by Industry (2016)**  
**Multiemployer Program**

Industry	Industry Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
<b>AGRICULTURE</b>	<b>51%</b>	<b>\$931</b>	<b>0.1%</b>	<b>\$459</b>	<b>0.1%</b>	<b>---</b>	<b>---</b>
<b>MINING</b>	<b>35%</b>	<b>10,596</b>	<b>1.0%</b>	<b>6,908</b>	<b>1.1%</b>	<b>---</b>	<b>---</b>
<b>CONSTRUCTION</b>	<b>43%</b>	<b>546,158</b>	<b>49.4%</b>	<b>311,006</b>	<b>48.7%</b>	<b>\$123</b>	<b>49.8%</b>
Building Construction	41%	77,803	7.0%	45,991	7.2%	1	0.2%
Heavy Construction	44%	90,303	8.2%	50,236	7.9%	---	---
Plumbing, Heating, and Air Conditioning	48%	53,578	4.9%	27,951	4.4%	---	---
Electrical Work	45%	84,193	7.6%	46,305	7.3%	---	---
Building Finishing Contractors	40%	56,641	5.1%	33,936	5.3%	---	---
Foundation, Structure, and Exterior Work	42%	98,196	8.9%	57,101	8.9%	113	45.6%
Other Construction	42%	85,444	7.7%	49,486	7.8%	10	4.0%
<b>MANUFACTURING</b>	<b>43%</b>	<b>75,020</b>	<b>6.8%</b>	<b>42,812</b>	<b>6.7%</b>	<b>86</b>	<b>34.8%</b>
Food and Tobacco Products	38%	19,048	1.7%	11,805	1.9%	---	---
Apparel and Textile Products	24%	66	**	50	**	---	---
Paper and Allied Products	36%	5,142	0.5%	3,299	0.5%	---	---
Printing and Publishing	34%	7,912	0.7%	5,194	0.8%	---	---
Furniture and Fixtures	26%	437	**	322	0.1%	---	---
Machinery and Computer Equipment	49%	22,030	2.0%	11,281	1.8%	86	34.8%
Electrical and Electronic Equipment	57%	392	0.0%	169	**	---	---
Other Manufacturing	47%	19,993	1.8%	10,692	1.7%	---	---
<b>TRANSPORTATION AND PUBLIC UTILITIES</b>	<b>43%</b>	<b>218,516</b>	<b>19.8%</b>	<b>129,974</b>	<b>20.4%</b>	<b>37</b>	<b>14.8%</b>
Trucking	39%	191,460	17.3%	117,082	18.3%	---	---
Water Transportation	55%	19,919	1.8%	9,076	1.4%	37	14.8%
Other Transportation and Public Utilities	47%	7,137	0.7%	3,816	0.6%	---	---
<b>INFORMATION</b>	<b>36%</b>	<b>28,055</b>	<b>2.5%</b>	<b>17,903</b>	<b>2.8%</b>	<b>---</b>	<b>---</b>
<b>WHOLESALE TRADE</b>	<b>52%</b>	<b>2,993</b>	<b>0.3%</b>	<b>1,448</b>	<b>0.2%</b>	<b>---</b>	<b>---</b>
<b>RETAIL TRADE</b>	<b>41%</b>	<b>78,668</b>	<b>7.1%</b>	<b>46,035</b>	<b>7.2%</b>	<b>1</b>	<b>0.4%</b>
<b>SERVICES</b>	<b>41%</b>	<b>144,557</b>	<b>13.1%</b>	<b>82,216</b>	<b>12.9%</b>	<b>1</b>	<b>0.3%</b>
Administrative/Support	41%	25,826	2.3%	15,220	2.4%	---	---
Health Care/Social Assistance	43%	39,994	3.6%	22,817	3.6%	1	0.3%
Accommodative/Food Service	43%	24,459	2.2%	13,876	2.2%	---	---
Other Services	44%	54,279	4.9%	30,303	4.7%	---	---
<b>TOTAL</b>	<b>42%</b>	<b>\$1,105,495</b>	<b>100.0%</b>	<b>\$638,760</b>	<b>100.0%</b>	<b>\$248</b>	<b>100.0%</b>

Source: Form 5500 filings

Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%.

\* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 for non-annuitants and 5.41 for annuitants were used in the calculation. Beginning in plan year 2012, these duration values were changed to 14 for non-annuitants and 8 for annuitants.

\*\* Less than 0.05 of one percent.

**Table M-15  
PBGC Maximum Guaranteed Benefits (1980-2019)  
Multiemployer Program**

Date of Plan Insolvency	Monthly Benefit Formula	Maximum Monthly Guarantee <i>(30 Years of Service)</i> <sup>1</sup>	Maximum Annual Guarantee <i>(30 Years of Service)</i> <sup>1</sup>
September 27, 1980 to December 21, 2000	The participant's years of service multiplied by the sum of: (1) 100% of the first \$5 of the monthly benefit accrual rate -plus- (2) 75% of the next \$15 of the monthly benefit accrual rate	\$487.50	\$5,850.00
On or after December 22, 2000 <sup>2</sup>	The participant's years of service multiplied by the sum of: (1) 100% of the first \$11 of the monthly benefit accrual rate -plus- (2) 75% of the next \$33 of the monthly benefit accrual rate	\$1,072.50	\$12,870.00

\* The formula presumes that the workers' monthly benefits are calculated by multiplying the monthly benefit accrual rate (a plan-specified dollar amount) times years of service. If the monthly benefit accrual rate prior to December 22, 2000, was less than \$20 per year of service or if the accrual rate after December 21, 2000 is less than \$44 per year of service then the maximum benefit guarantee for a participant with 30 years of service will be lower than the amounts shown. Note that there is no cap on applicable years of service; 30 years was selected for illustrative purposes only.

\*\* The increased guarantee does not apply to multiemployer plans that received financial aid from PBGC between December 22, 1999, and December 21, 2000. The original, lower monthly benefit guarantee continues to apply to participants in these plans.

**Table M-16  
PBGC's Historic Premium Rates (1974 - 2019)  
Multiemployer Program**

For Plan Years Beginning	Premium Rate <i>(per participant)</i>
September 2, 1974 - August 31, 1979	\$0.50
September 1, 1979 - September 26, 1980	\$0.50 for plan years beginning in September, 1979, growing gradually to \$1.00 for plan years beginning September 1, 1980 to September 26, 1980
September 27, 1980 - September 26, 1984	\$1.40
September 27, 1984 - September 26, 1986	\$1.80
September 27, 1986 - September 26, 1988	\$2.20
September 27, 1988 - December 31, 2005	\$2.60
2006 - 2007	\$8.00*
2008 - 2012	\$9.00
2013	\$12.00
2014	\$12.00
2015	\$26.00
2016	\$27.00
2017	\$28.00
2018	\$28.00
2019	\$29.00

\* Beginning in 2007, this amount is adjusted annually based on changes in the national average wage index (as defined in section 209(k)(1) of the Social Security Act). The adjusted premium rate is rounded to the nearest multiple of \$1. Premium amounts for 2012 and again for 2015 were reset as a result of legislation, and continue to be adjusted (from that higher level).

**Table M-17**  
**Participants by Plan Zone Status and Participant Status\* (2009-2016)**  
**Multiemployer Program**

Zone Status	Participant Type	Participants							
		2009	2010	2011	2012	2013	2014	2015	2016
Deep Red	Active	n/a	n/a	n/a	n/a	n/a	n/a	15.3%	16.2%
	In Pay	n/a	n/a	n/a	n/a	n/a	n/a	52.1%	51.7%
	Separated Vested	n/a	n/a	n/a	n/a	n/a	n/a	32.6%	32.1%
	Total Participants	n/a	n/a	n/a	n/a	n/a	n/a	1,166,069	1,292,025
	Percent of System	n/a	n/a	n/a	n/a	n/a	n/a	11.4%	12.5%
Red	Active	38.9%	34.1%	31.3%	29.8%	29.3%	27.1%	32.6%	32.1%
	In Pay	32.6%	34.7%	36.3%	38.1%	38.5%	40.5%	34.6%	34.4%
	Separated Vested	28.5%	31.2%	32.5%	32.1%	32.2%	32.4%	32.8%	33.4%
	Total Participants	3,901,690	3,929,121	3,474,487	3,478,136	3,385,144	3,429,901	2,175,988	2,131,098
	Percent of System	37.9%	38.7%	34.3%	34.5%	33.9%	33.9%	21.2%	20.7%
Orange	Active	36.1%	28.3%	20.3%	20.4%	13.7%	37.0%	40.3%	45.0%
	In Pay	38.3%	53.4%	63.7%	65.3%	76.5%	41.7%	43.5%	30.5%
	Separated Vested	25.6%	18.4%	16.0%	14.2%	9.8%	21.3%	16.2%	24.5%
	Total Participants	1,470,071	334,892	197,775	192,656	138,096	5,386	24,773	29,670
	Percent of System	14.3%	3.3%	2.0%	1.9%	1.4%	0.1%	0.2%	0.3%
Yellow	Active	47.7%	46.4%	41.9%	41.5%	39.1%	40.0%	38.3%	38.6%
	In Pay	30.9%	32.5%	35.4%	36.0%	37.8%	36.3%	37.0%	37.7%
	Separated Vested	21.4%	21.1%	22.7%	22.5%	23.0%	23.8%	24.7%	23.8%
	Total Participants	1,791,794	1,342,922	1,180,115	1,304,203	1,319,079	1,158,555	1,144,312	1,018,947
	Percent of System	17.4%	13.2%	11.6%	12.9%	13.2%	11.4%	11.1%	9.9%
Green	Active	46.0%	43.2%	42.2%	42.1%	42.2%	41.5%	42.4%	42.2%
	In Pay	29.8%	31.0%	31.5%	30.7%	31.0%	31.7%	31.5%	31.7%
	Separated Vested	24.3%	25.7%	26.3%	2722.0%	26.8%	26.8%	26.1%	26.1%
	Total Participants	3,120,860	4,555,121	5,282,203	5,112,874	5,133,802	5,535,027	5,761,628	5,850,594
	Percent of System	30.4%	44.8%	52.1%	50.7%	51.5%	54.7%	56.1%	56.7%

Source: Form 5500 filings

\*Classifiable Ongoing Plans exclude plans which have terminated or are currently receiving Financial Assistance and plans that did not provide zone status.

In 2015, the Critical & Declining (C&D) status was introduced as a subset of the Critical status.

**Table M-18  
Plans by Zone Status\* (2009-2016)  
Multiemployer Program**

ZONE STATUS	Plan Risk Status by Year (plan count)							
	2009	2010	2011	2012	2013	2014	2015	2016
Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	83	106
Red	439	380	321	328	329	315	212	211
Orange	128	48	18	20	13	5	5	5
Yellow	296	227	20	227	195	159	146	134
Green	485	669	768	720	694	776	789	763
<b>Total Classifiable Ongoing Plans*</b>	1,348	1,324	1,127	1,295	1,231	1,255	1,235	1,219
ZONE STATUS	Plan Risk Status by Year (% of Plans)							
	2009	2010	2011	2012	2013	2014	2015	2016
Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	6.7%	8.7%
Red	32.6%	28.7%	28.5%	25.3%	26.7%	25.1%	17.2%	17.3%
Orange	9.5%	3.6%	1.6%	1.5%	1.1%	0.4%	0.4%	0.4%
Yellow	22.0%	17.2%	1.8%	17.5%	15.8%	12.7%	11.8%	11.0%
Green	36.0%	50.5%	68.2%	55.6%	56.4%	61.8%	63.9%	62.6%
<b>Total System</b>	100%	100%	100%	100%	100%	100%	100%	100%

Source: Form 5500 filings

\*Classifiable Ongoing Plans exclude plans which have terminated or are currently receiving Financial Assistance and plans that did not provide zone status.

In 2015, the Critical & Declining (C&D) status was introduced as a subset of the Critical status.

**Table M-19**  
**Administrative Expenses per Participant, by Industry and Zone\***  
**(2009-2016)**  
**Multiemployer Program**

SECTOR	ZONE STATUS	Administrative Expense per Participant (median, unadjusted dollars)							
		2009	2010	2011	2012	2013	2014	2015	2016
CONSTRUCTION	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	\$ 337	\$ 349
	Red	\$ 265	\$ 267	\$ 276	\$ 258	\$ 270	\$ 277	\$ 278	\$ 290
	Orange	\$ 240	\$ 219	\$ 194	\$ 352	\$ 310	\$ 329	\$ 232	\$ 227
	Yellow	\$ 228	\$ 252	\$ 250	\$ 246	\$ 249	\$ 253	\$ 280	\$ 254
	Green	\$ 228	\$ 228	\$ 231	\$ 228	\$ 243	\$ 248	\$ 261	\$ 253
All Construction		\$ 234	\$ 239	\$ 241	\$ 240	\$ 253	\$ 253	\$ 266	\$ 263
MANUFACTURING	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	\$ 167	\$ 154
	Red	\$ 171	\$ 183	\$ 169	\$ 182	\$ 176	\$ 180	\$ 208	\$ 234
	Orange	\$ 135	\$ 160	\$ 245	\$ 180	\$ 194	\$ 252	n/a	n/a
	Yellow	\$ 180	\$ 248	\$ 163	\$ 201	\$ 182	\$ 152	\$ 185	\$ 187
	Green	\$ 172	\$ 182	\$ 191	\$ 181	\$ 185	\$ 190	\$ 214	\$ 229
All Manufacturing		\$ 171	\$ 180	\$ 177	\$ 180	\$ 185	\$ 185	\$ 197	\$ 204
TRANSPORTATION	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	\$ 333	\$ 303
	Red	\$ 199	\$ 211	\$ 230	\$ 220	\$ 210	\$ 208	\$ 213	\$ 219
	Orange	\$ 224	\$ 342	\$ 741	\$ 207	\$ 311	n/a	n/a	n/a
	Yellow	\$ 299	\$ 241	\$ 263	\$ 258	\$ 289	\$ 256	\$ 240	\$ 253
	Green	\$ 304	\$ 262	\$ 274	\$ 282	\$ 308	\$ 296	\$ 301	\$ 298
All Transportation		\$ 235	\$ 245	\$ 246	\$ 255	\$ 263	\$ 266	\$ 284	\$ 288
ALL OTHER INDUSTRIES	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	\$ 342	\$ 225
	Red	\$ 149	\$ 150	\$ 137	\$ 147	\$ 164	\$ 163	\$ 166	\$ 142
	Orange	\$ 176	\$ 152	\$ 253	\$ 230	\$ 274	\$ 415	\$ 423	\$ 126
	Yellow	\$ 214	\$ 197	\$ 173	\$ 206	\$ 159	\$ 168	\$ 178	\$ 229
	Green	\$ 184	\$ 186	\$ 196	\$ 188	\$ 196	\$ 194	\$ 209	\$ 203
All 'All Other Industries'		\$ 171	\$ 173	\$ 178	\$ 178	\$ 177	\$ 187	\$ 204	\$ 199
System-wide		\$ 214	\$ 220	\$ 222	\$ 222	\$ 228	\$ 235	\$ 249	\$ 244

Source: Form 5500 filings

\*Classifiable Ongoing Plans exclude plans which have terminated or are currently receiving Financial Assistance and plans that did not provide zone status.

Descriptive statistics ignore zero benefit plans but include plans with relatively small benefit payments.

**Table M-20  
Administrative Expenses as a Percent of Benefits Paid,  
by Industry and Zone\* (2009-2016)  
Multiemployer Program**

SECTOR	ZONE STATUS	Administrative Expenses to Benefits Paid (median)							
		2009	2010	2011	2012	2013	2014	2015	2016
CONSTRUCTION	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	6.0%	6.9%
	Red	5.4%	5.3%	5.7%	5.1%	4.8%	4.7%	4.7%	5.1%
	Orange	6.1%	4.3%	2.5%	5.5%	5.6%	7.2%	3.6%	4.5%
	Yellow	5.3%	4.9%	4.5%	4.1%	4.0%	4.3%	4.4%	4.0%
	Green	7.1%	6.2%	5.6%	5.4%	5.4%	5.3%	5.5%	5.1%
All Construction		6.1%	5.6%	5.4%	5.1%	5.0%	5.1%	5.2%	5.0%
MANUFACTURING	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	7.3%	7.2%
	Red	9.0%	8.6%	7.4%	7.1%	7.1%	6.8%	10.1%	8.4%
	Orange	7.7%	11.4%	9.9%	3.0%	4.0%	13.9%	n/a	n/a
	Yellow	9.3%	11.0%	8.8%	12.8%	11.1%	5.1%	4.8%	5.0%
	Green	10.0%	9.8%	9.8%	9.7%	8.0%	8.5%	9.0%	8.9%
All Manufacturing		9.9%	10.8%	10.0%	9.0%	8.7%	8.5%	9.4%	9.0%
TRANSPORTATION	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	5.5%	4.3%
	Red	4.2%	4.5%	3.9%	3.9%	3.9%	3.6%	3.6%	3.6%
	Orange	4.3%	4.6%	11.5%	10.1%	5.6%	n/a	n/a	n/a
	Yellow	5.7%	4.5%	5.8%	3.6%	3.9%	2.8%	3.2%	3.1%
	Green	7.7%	8.8%	7.4%	7.2%	7.7%	7.3%	6.5%	6.4%
All Transportation		5.4%	5.9%	5.6%	5.4%	5.3%	5.6%	5.7%	4.9%
ALL OTHER INDUSTRIES	Deep Red	n/a	n/a	n/a	n/a	n/a	n/a	8.2%	7.3%
	Red	7.7%	8.8%	8.4%	8.0%	9.1%	9.0%	9.7%	8.5%
	Orange	10.3%	6.8%	8.6%	6.6%	4.0%	4.7%	4.6%	3.5%
	Yellow	8.4%	7.9%	8.8%	5.8%	8.5%	6.2%	5.7%	6.5%
	Green	8.2%	9.8%	8.5%	7.8%	8.0%	8.2%	9.3%	8.8%
All 'All Other Industries'		9.2%	9.3%	8.7%	8.2%	8.5%	8.8%	9.3%	8.8%
System-wide		6.9%	6.5%	6.3%	6.0%	6.0%	5.9%	6.2%	6.0%

Source: Form 5500 filings

\*Classifiable Ongoing Plans exclude plans which have terminated or are currently receiving Financial Assistance and plans that did not provide zone status.

Descriptive statistics ignore zero benefit plans but include plans with relatively small benefit payments.