

DATA TABLE LISTING

PBGC is now releasing data in groups, as they become available. This is the final release for the 2015 Data Tables.

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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.

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

<https://www.pbgc.gov/prac/data-books.html>

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>
Fiscal Year 2015:			
Net Financial Position	-\$24,065	-\$52,284	-\$76,349
Total Assets	\$85,735	\$1,924	\$87,659
Total Liabilities	\$109,800	\$54,208	\$164,008
Premium Revenue*	\$4,138	\$212	\$4,350
Number of Insured Plans	22,166	1,396	23,562
Number of Insured Participants	29.8 million	10.3 million	40.1 million
Change in number of plans Trusteed or Pending Trusteeship**	64	n/a	64
Change in Claims*****	\$231	n/a	\$231
Total Number of Payees	828,176	54,039	882,215
Paid Directly***	828,176	39	828,215
Paid Indirectly Through Financial Assistance	-	54,000	54,000
Total Benefit Payments	\$5,570	\$103	\$5,673
Paid Directly to Payees	\$5,570	****	\$5,570
Financial Assistance Granted	n/a	\$103	\$103
Number of Plans Receiving Financial Assistance	n/a	58	58
Fiscal Years 1975-2015:			
Plans Trusteed or Pending Trusteeship	4,706	10	4,716
Amount of Claims*****	\$49,003	\$31	\$49,034
Number of Plans Receiving Financial Assistance	n/a	81	81
Total Amount of Financial Assistance Granted	n/a	\$1,077	\$1,077

Sources: PBGC Pension Insurance Data Book Tables S-1, S-2, S-3, S-20, 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".

***The number of payees includes those receiving a periodic pension benefit payment and those who received a lump-sum benefit payment from PBGC during FY 2015.

****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 (1980-2016)
Single-Employer Program

Fiscal Year	Assets (in millions)	Liabilities (in millions)	Net Position (in millions)
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

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 (1980-2016)
Single-Employer Program

Fiscal Year	Total Premium Revenue <i>(in millions)</i>	Benefit Payments <i>(in millions)</i>	Administrative & Investment Expenses <i>(in millions)</i>	Premiums Minus Benefits Paid and Expenses <i>(in millions)</i>
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	1,340	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	6,404	5,659	469	276

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 (1975-2015)
Single-Employer Program

Fiscal Year	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	2,275	5,117	2,842	447	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	4,519	8,310	3,790	272	3,518
2003	1,203	172	6,934	13,408	6,474	210	6,264
2004	1,198	165	2,834	6,119	3,285	528	2,757
2005	1,108	129	10,318	21,566	11,248	1,798	9,449
2006	1,247	89	2,362	4,589	2,227	1,329	898
2007	1,233	78	630	975	344	30	314
2008	1,405	83	536	816	280	42	237
2009	1,294	191	10,096	18,180	8,084	1,281	6,803
2010	1,308	156	1,316	2,522	1,207	164	1,043
2011	1,400	99	863	1,557	694	81	613
2012	1,332	117	835	1,832	996	87	910
2013	1,481	89	1,424	2,880	1,456	106	1,350
2014	1,373	52	1,044	1,758	714	31	682
2015	1,197	26	785	1,416	631	0	631
Total	139,710	4,706	\$52,298	\$101,302	\$49,003	\$7,060	\$41,943

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 (1975-2015)
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	\$252,206,144	---	---	\$252,206,144	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	168,714,149	---	---	168,714,149	100.0%
2000	101,400,872	---	---	101,400,872	100.0%
2001	1,150,651,494	668,377,105	58.1%	482,274,389	41.9%
2002	3,790,206,734	2,081,361,846	54.9%	1,708,844,888	45.1%
2003	6,473,833,873	5,550,023,175	85.7%	923,810,697	14.3%
2004	3,285,139,741	692,584,383	21.1%	2,592,555,358	78.9%
2005	11,247,921,879	9,486,323,371	84.3%	1,761,598,508	15.7%
2006	2,227,090,559	1,720,156,505	77.2%	506,934,053	22.8%
2007	344,362,376	---	---	344,362,376	100.0%
2008	279,576,442	---	---	279,576,442	100.0%
2009	8,083,897,167	5,631,321,933	69.7%	2,452,575,234	30.3%
2010	1,206,659,085	---	---	1,206,659,085	100.0%
2011	693,649,111	---	---	693,649,111	100.0%
2012	996,486,748	---	---	996,486,748	100.0%
2013	1,456,198,742	---	---	1,456,198,742	100.0%
2014	713,573,749	---	---	713,573,749	100.0%
2015	631,119,415	---	---	631,119,415	100.0%
Total	\$49,003,252,682	26,671,230,752	54.4%	\$22,332,021,930	45.6%

Sources: 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.

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

Table S-5
Top 10 Firms Presenting Claims (1975-2015)
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	14.9%
2. Delphi	6	2009	5,631,321,933	66,614	84,537	11.5%
3. Bethlehem Steel	1	2003	3,702,771,655	92,174	40,172	7.6%
4. US Airways	4	2003, 2005	2,708,858,934	60,585	44,712	5.5%
5. LTV Steel*	6	2002, 2003, 2004	2,134,985,884	83,782	25,483	4.4%
6. Delta Air Lines	1	2006	1,720,156,505	13,237	129,951	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%
Top 10 Total	35		\$26,671,230,752	569,673	\$46,818	54.4%
All Other Total	4,671		22,332,021,930	1,662,629	13,432	45.6%
Total	4,706		\$49,003,252,682	2,232,302	\$21,952	100.0%

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.

Data in this table have been calculated on a firm basis and, except as noted, include all trusteed 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 (1975-2015)
by Fiscal Year and Size of Claim
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	0	0	586	12.5%
1980-1984	539	65	18	0	0	622	13.2%
1985-1989	450	67	15	5	0	537	11.4%
1990-1994	534	137	17	6	0	694	14.7%
1995-1999	310	118	16	0	0	444	9.4%
2000-2004	361	245	83	23	2	714	15.2%
2005-2009	234	247	70	12	7	570	12.1%
2010	68	67	20	1	0	156	3.3%
2011	30	52	17	0	0	99	2.1%
2012	38	60	18	1	0	117	2.5%
2013	21	46	20	2	0	89	1.9%
2014	11	28	12	1	0	52	1.1%
2015	2	17	5	2	0	26	0.6%
Total Plans	3,143	1,185	316	53	9	4,706	
Percent of Total	66.8%	25.2%	6.7%	1.1%	0.2%		100.0%

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 (1975-2015)
by Fiscal Year and Size of Claim
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	\$62,193,304	\$89,626,004	\$100,386,835	-	-	\$252,206,144	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	3.5%
1990-1994	125,685,484	449,076,661	447,349,948	1,819,857,866	-	2,841,969,959	5.8%
1995-1999	94,471,553	307,763,075	380,646,499	-	-	782,881,127	1.6%
2000-2004	121,421,534	811,183,088	2,455,826,163	6,016,024,753	\$5,396,777,176	14,801,232,713	30.2%
2005-2009	93,326,968	804,451,208	2,187,261,124	4,483,666,080	14,614,143,044	22,182,848,422	45.3%
2010	30,650,338	212,641,835	682,256,543	281,110,369	-	1,206,659,085	2.5%
2011	15,292,300	148,566,557	529,790,254	-	-	693,649,111	1.4%
2012	13,959,349	186,510,533	680,681,819	115,335,047	-	996,486,748	2.0%
2013	11,887,491	146,994,331	738,581,136	558,735,784	-	1,456,198,742	3.0%
2014	5,116,158	88,669,583	347,285,118	272,502,891	-	713,573,749	1.5%
2015	770,401	58,356,114	134,074,454	437,918,446	-	631,119,415	1.3%
Total	\$729,925,218	\$3,715,352,733	\$9,578,958,119	\$14,968,096,393	\$20,010,920,220	\$49,003,252,682	
Percent of Total	1.5%	7.6%	19.5%	30.5%	40.8%		100.0%

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 (1975-2015)
by Fiscal Year and Funded Ratio
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	127	147	586	12.5%
1980-1984	220	134	135	133	622	13.2%
1985-1989	170	112	127	128	537	11.4%
1990-1994	190	153	181	170	694	14.7%
1995-1999	118	101	139	86	444	9.4%
2000-2004	118	202	248	146	714	15.2%
2005-2009	108	163	220	79	570	12.1%
2010	33	43	73	7	156	3.3%
2011	20	35	42	2	99	2.1%
2012	28	58	28	3	117	2.5%
2013	28	34	27	-	89	1.9%
2014	9	15	23	5	52	1.1%
2015	6	9	11	-	26	0.6%
Total	1,211	1,208	1,381	906	4,706	
Percent of Total	25.7%	25.7%	29.3%	19.3%		100.0%

Source: PBGC Fiscal Year Closing File.

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

**Table S-9
PBGC Claims (1975-2015)
by Fiscal Year and Funded Ratio
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	\$21,092,605	\$5,977,592	\$252,206,144	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	3.5%
1990-1994	1,664,086,089	326,486,171	767,438,470	83,959,229	2,841,969,959	5.8%
1995-1999	103,144,596	184,382,061	339,689,572	155,664,897	782,881,127	1.6%
2000-2004	714,373,330	7,984,820,292	5,918,216,915	183,822,175	14,801,232,713	30.2%
2005-2009	234,081,373	13,303,914,245	8,476,787,104	168,065,701	22,182,848,423	45.3%
2010	57,741,554	335,279,429	811,661,529	1,976,572	1,206,659,085	2.5%
2011	107,456,641	202,287,270	372,090,099	11,815,101	693,649,111	1.4%
2012	46,174,089	738,392,110	195,411,532	16,509,016	996,486,748	2.0%
2013	158,474,757	507,014,359	790,709,626	-	1,456,198,742	3.0%
2014	12,038,440	109,356,420	559,230,428	32,948,462	713,573,749	1.5%
2015	14,835,684	350,922,524	265,361,207	-	631,119,415	1.3%
Total	\$4,463,183,685	\$25,082,672,489	\$18,778,710,463	\$678,686,046	\$49,003,252,682	
Percent of Total	9.1%	51.2%	38.3%	1.4%		100.0%

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 Trusteed Plans (1975-2015)
by Size of Claim and Funded Ratio
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%	898	261	43	9	0	1,211	25.7%
25% - 49%	669	392	123	19	5	1,208	25.7%
50% - 74%	764	452	136	25	4	1,381	29.3%
75% or More	812	80	14	0	0	906	19.3%
Total	3,143	1,185	316	53	9	4,706	
Percent of Total	66.8%	25.2%	6.7%	1.1%	0.2%		100.0%

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.

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

Table S-11
PBGC Claims (1975-2015)
by Size of Claim and Funded Ratio
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%	\$247,883,568	\$699,396,574	\$1,218,525,346	\$2,297,378,197	---	\$4,463,183,685	9.1%
25% - 49%	193,913,601	1,303,402,032	4,213,032,161	6,044,065,863	\$13,328,258,832	25,082,672,489	51.2%
50% - 74%	208,280,427	1,482,401,881	3,778,714,434	6,626,652,333	6,682,661,388	18,778,710,463	38.3%
75% or More	79,847,621	230,152,247	368,686,178	---	---	678,686,046	1.4%
Total	\$729,925,218	\$3,715,352,733	\$9,578,958,119	\$14,968,096,393	\$20,010,920,220	\$49,003,252,683	
Percent of Total	1.5%	7.6%	19.5%	30.5%	40.8%		100.0%

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 (1975-2015)
by Plan Size
Single-Employer Program

Number of Plan Participants	Vested Participants		Claims		Average Claim Per Participant	Claims* (2015 Dollars)		Average Claim Per Participant (2015 Dollars)
	Participants	Plans						
Fewer Than 100	100,925	2,776	\$1,075,105,146	2.2%	\$10,653	\$1,491,451,431	2.3%	\$14,778
100-999	506,568	1,604	5,372,308,678	11.0%	10,605	7,633,747,652	12.0%	15,070
1,000-4,999	519,132	257	8,253,124,262	16.8%	15,898	11,375,347,004	17.9%	21,912
5,000-9,999	262,850	36	6,029,905,014	12.3%	22,940	7,984,836,764	12.5%	30,378
10,000 or More	842,827	36	28,272,809,582	57.7%	33,545	35,225,226,050	55.3%	41,794
Total	2,232,302	4,709	\$49,003,252,682	100.0%	\$21,952	\$63,710,608,901	100.0%	\$28,540

Source: 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%.

*Claims in 2015 dollars are calculated using Consumer Price Index - Urban Consumers.

Table S-13
PBGC Trusted Plans (1975-2015)
by Fiscal Year and Plan Size
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	12.5%
1980-1984	192	241	169	20	---	---	622	13.2%
1985-1989	156	201	161	14	4	1	537	11.4%
1990-1994	157	253	259	21	1	3	694	14.7%
1995-1999	98	164	147	31	3	1	444	9.4%
2000-2004	116	196	312	61	17	12	714	15.2%
2005-2009	114	157	219	57	5	18	570	12.1%
2010	38	53	53	10	2	---	156	3.3%
2011	22	34	33	10	---	---	99	2.1%
2012	34	38	37	7	1	---	117	2.5%
2013	26	29	24	8	2	---	89	1.9%
2014	11	13	23	4	---	1	52	1.1%
2015	6	8	8	3	1	---	26	0.6%
Total	1,163	1,610	1,604	257	36	36	4,706	
Percent of Total	24.7%	34.2%	34.1%	5.5%	0.8%	0.8%		100.0%

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 (1975-2015)
by Fiscal Year and Plan Size
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	\$20,790,881	\$131,536,741	\$93,631,897	---	---	\$252,206,144	0.5%
1980-1984	15,035,091	40,190,162	257,320,102	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	3.5%
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	5.8%
1995-1999	14,384,359	64,119,880	291,527,452	281,353,421	102,443,025	29,052,989	782,881,127	1.6%
2000-2004	22,841,648	131,236,961	1,304,356,311	2,373,964,242	3,046,502,649	7,922,330,903	14,801,232,713	30.2%
2005-2009	51,189,207	142,578,317	1,001,075,748	1,681,998,215	746,726,571	18,559,280,364	22,182,848,422	45.3%
2010	13,399,403	73,744,490	363,793,915	418,279,935	337,441,342	---	1,206,659,085	2.5%
2011	18,378,789	51,770,483	226,688,985	396,810,855	---	---	693,649,111	1.4%
2012	22,606,810	78,825,845	373,054,129	406,664,917	115,335,047	---	996,486,748	2.0%
2013	32,299,249	72,049,546	273,423,590	519,690,573	558,735,784	---	1,456,198,742	3.0%
2014	10,085,938	22,508,006	206,770,108	201,706,807	---	272,502,891	713,573,749	1.5%
2015	8,282,304	22,674,799	74,233,778	204,510,792	321,417,742	---	631,119,415	1.3%
Total	\$239,062,164	\$836,042,982	\$5,372,308,678	\$8,253,124,262	\$6,029,905,014	\$28,272,809,582	\$49,003,252,682	
Percent of Total	0.5%	1.7%	11.0%	16.8%	12.3%	57.7%		100.0%

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 (1975-2015)
by Size of Claim and Plan Size
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	1,106	57	-	-	-	1,163	24.7%
25-99	1,361	247	2	-	-	1,610	34.2%
100-999	663	812	129	-	-	1,604	34.1%
1,000-4,999	13	68	164	12	-	257	5.5%
5,000-9,999	-	1	14	21	-	36	0.8%
10,000 or More	-	-	7	20	9	36	0.8%
Total	3,143	1,185	316	53	9	4,706	
Percent of Total	66.8%	25.2%	6.7%	1.1%	0.2%		100.0%

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 (1975-2015)
by Size of Claim and Plan Size
Single-Employer Program

Number of Plan Participants	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		
Fewer Than 25	\$143,727,710	\$95,334,454	---	---	---	\$239,062,164	0.5%
25-99	325,698,798	486,032,724	\$24,311,460	---	---	836,042,982	1.7%
100-999	254,081,618	2,794,753,631	2,323,473,429	---	---	5,372,308,678	11.0%
1,000-4,999	6,417,091	332,811,091	6,109,380,907	\$1,804,515,173	---	8,253,124,262	16.8%
5,000-9,999	---	6,420,835	781,840,233	5,241,643,946	---	6,029,905,014	12.3%
10,000 or More	---	---	339,952,089	7,921,937,273	\$20,010,920,220	28,272,809,583	57.7%
Total	\$729,925,218	\$3,715,352,733	\$9,578,958,118	\$14,968,096,393	\$20,010,920,220	\$49,003,252,682	
Percent of Total	1.5%	7.6%	19.5%	30.5%	40.8%		100.0%

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 (1975-2015)
by Funded Ratio and Plan Size
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	446	244	202	271	1,163	24.7%
25-99	458	423	423	306	1,610	34.2%
100-999	268	433	620	283	1,604	34.1%
1,000-4,999	34	81	103	39	257	5.5%
5,000-9,999	4	15	14	3	36	0.8%
10,000 or More	1	12	19	4	36	0.8%
Total	1,211	1,208	1,381	906	4,706	
Percent of Total	25.7%	25.7%	29.3%	19.3%		100.0%

Source: PBGC Fiscal Year Closing File.

**Table S-18
PBGC Claims (1975-2015)
by Funded Ratio and Plan Size
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	\$134,510,323	\$65,566,664	\$34,478,028	\$4,507,149	\$239,062,164	0.5%
25-99	303,962,237	300,134,174	209,995,765	21,950,805	836,042,982	1.7%
100-999	839,512,770	2,064,956,033	2,232,488,477	235,351,398	5,372,308,678	11.0%
1,000-4,999	1,579,122,195	3,285,424,345	3,216,577,191	172,000,530	8,253,124,262	16.8%
5,000-9,999	826,538,771	2,782,493,564	2,291,709,720	129,162,959	6,029,905,014	12.3%
10,000 or more	779,537,389	16,584,097,708	10,793,461,281	115,713,205	28,272,809,583	57.7%
Total	\$4,463,183,685	\$25,082,672,488	\$18,778,710,463	\$678,686,046	\$49,003,252,682	
Percent of Total	9.1%	51.2%	38.3%	1.4%		100.0%

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 (1975-2015)
Single-Employer Program

Industry	Total Claims		Plans		Vested Participants	
AGRICULTURE, MINING, AND CONSTRUCTION	\$749,318,738	1.5%	266	5.7%	46,691	2.1%
MANUFACTURING	28,271,923,285	57.7%	2,804	59.6%	1,333,675	59.7%
Apparel and Textile Mill Products	1,252,435,883	2.6%	203	4.3%	187,998	8.4%
Fabricated Metal Products	1,773,743,046	3.6%	661	14.0%	132,616	5.9%
Food and Tobacco Products	483,925,239	1.0%	180	3.8%	53,157	2.4%
Machinery Manufacturing	1,281,810,370	2.6%	287	6.1%	97,294	4.4%
Motor Vehicle Equipment	6,269,215,729	12.8%	132	2.8%	128,989	5.8%
Primary Metals	12,393,507,393	25.3%	353	7.5%	427,765	19.2%
Rubber and Miscellaneous Plastics	518,328,129	1.1%	124	2.6%	37,860	1.7%
Other Manufacturing	4,298,957,495	8.8%	864	18.4%	267,996	12.0%
TRANSPORTATION AND PUBLIC UTILITIES	14,457,543,867	29.5%	206	4.4%	379,350	17.0%
Air Transportation	14,019,927,051	28.6%	43	0.9%	340,721	15.3%
Other Transportation and Utilities	437,616,816	0.9%	163	3.5%	38,629	1.7%
INFORMATION	272,446,380	0.6%	67	1.4%	15,406	0.7%
WHOLESALE TRADE	580,136,918	1.2%	296	6.3%	44,234	2.0%
RETAIL TRADE	726,926,249	1.5%	338	7.2%	152,767	6.8%
FINANCE, INSURANCE, AND REAL ESTATE	1,092,590,180	2.2%	155	3.3%	84,850	3.8%
SERVICES	2,852,367,065	5.8%	574	12.2%	175,329	7.9%
TOTAL	\$49,003,252,682	100.0%	4,706	100.0%	2,232,302	100.0%

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 (1980-2015)
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

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

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 (2015)
Single-Employer Program

Fiscal Year of Plan Termination	Payees in 2015		Benefit Payments in 2015 <i>(in millions)</i>		Average Monthly Pension	Median Monthly Pension	Deferred Payees in 2015
Prior to 1980	3,371	0.4%	\$4.4	0.1%	\$105	\$83	930
1980 to 1984	16,645	2.0%	40.2	0.7%	194	159	1,283
1985 to 1989	29,057	3.5%	95.6	1.7%	262	195	2,090
1990 to 1994	80,595	9.7%	331.3	5.9%	324	237	5,646
1995	7,080	0.9%	26.7	0.5%	299	166	2,357
1996	8,973	1.1%	25.0	0.4%	222	129	2,683
1997	12,324	1.5%	42.4	0.8%	273	198	5,113
1998	4,310	0.5%	14.3	0.3%	261	160	3,407
1999	8,812	1.1%	27.4	0.5%	243	157	12,592
2000	8,261	1.0%	24.5	0.4%	235	133	2,440
2001	46,804	5.7%	271.6	4.9%	456	275	20,159
2002	90,159	10.9%	505.0	9.1%	444	276	25,301
2003	94,580	11.4%	820.6	14.7%	690	403	25,186
2004	64,707	7.8%	330.5	5.9%	404	233	35,208
2005	109,746	13.3%	1,077.0	19.3%	773	457	125,695
2006	20,930	2.5%	271.3	4.9%	1,010	433	17,947
2007	12,565	1.5%	55.8	1.0%	351	193	12,968
2008	9,490	1.1%	46.7	0.8%	399	215	12,286
2009	103,059	12.4%	1,031.3	18.5%	784	451	114,828
2010	25,621	3.1%	141.0	2.5%	437	262	28,488
2011	13,043	1.6%	76.9	1.4%	466	280	21,573
2012	11,383	1.4%	69.7	1.3%	498	250	22,765
2013	15,884	1.9%	122.0	2.2%	615	389	25,691
2014	14,452	1.7%	49.7	0.9%	341	148	20,336
2015	229	0.0%	0.3	0.0%	384	223	13,029
Subtotal	812,079	98.1%	5,501.1	98.8%	536	279	560,000
Recently Terminated Plans	16,097	1.9%	68.7	1.2%	**	**	**
Total	828,176	100.0%	\$5,569.8	100.0%	**	**	560,000

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 fiscal year 2015, 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 (2015)
Single-Employer Program

Number of Plan Participants	Periodic Payees		Periodic Payments <i>(in millions)</i>		Average Monthly Pension Payment	Median Monthly Pension Payment
Fewer Than 100	47,365	5.7%	\$155.3	2.8%	\$265	\$146
100 - 499	106,446	12.9%	425.2	7.8%	322	197
500 - 999	69,644	8.4%	299.0	5.5%	347	204
1,000 - 4,999	191,026	23.2%	951.3	17.3%	402	236
5,000 - 9,999	116,678	14.1%	864.0	15.7%	597	355
10,000 - 24,999	139,371	16.9%	1,270.0	23.1%	735	325
25,000 or More	154,636	18.7%	1,521.3	27.7%	793	639
Total	825,166	100.0%	\$5,486.0	100.0%	\$536	\$279

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-23
Total PBGC Payees and Average Benefit Payments by Age and Gender (Fiscal Year 2015)
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	41,224	5.0%	\$437	21,473	4.6%	\$506	19,751	5.5%	\$361
60 - 64	102,134	12.4%	561	61,646	13.1%	640	40,488	11.4%	438
65 - 69	182,686	22.1%	597	109,130	23.3%	684	73,556	20.6%	466
70 - 74	163,110	19.8%	611	99,154	21.1%	727	63,956	17.9%	426
75 - 79	128,610	15.6%	600	76,034	16.2%	768	52,577	14.8%	345
80 - 84	98,462	11.9%	543	53,645	11.4%	745	44,817	12.6%	287
85 and Older	108,940	13.2%	425	47,748	10.2%	652	61,191	17.2%	241
Total	825,166	100.0%	\$536	468,830	100.0%	\$698	356,336	100.0%	\$373

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 2015)
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	32,383	4.7%	\$462	20,284	4.4%	\$518	12,099	5.2%	\$366
60 - 64	91,847	13.3%	582	60,978	13.2%	643	30,869	13.4%	459
65 - 69	165,646	23.9%	619	107,969	23.4%	688	57,677	25.0%	489
70 - 74	143,123	20.7%	644	97,866	21.2%	731	45,257	19.6%	452
75 - 79	106,753	15.4%	655	74,903	16.2%	774	31,850	13.8%	362
80 - 84	76,267	11.0%	618	52,810	11.4%	752	23,457	10.2%	299
85 and Older	76,587	11.1%	502	46,799	10.1%	660	29,789	12.9%	240
Total	692,607	100.0%	\$606	461,608	100.0%	\$703	230,999	100.0%	\$405

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 2015)
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	8,841	6.7%	\$343	1,189	16.5%	\$289	7,652	6.1%	\$351
60 - 64	10,288	7.8%	364	669	9.3%	283	9,619	7.7%	370
65 - 69	17,039	12.9%	374	1,161	16.1%	306	15,878	12.7%	379
70 - 74	19,987	15.1%	355	1,288	17.8%	303	18,699	14.9%	358
75 - 79	21,857	16.5%	314	1,131	15.7%	258	20,726	16.5%	317
80 - 84	22,195	16.7%	272	835	11.6%	221	21,360	17.0%	273
85 and Older	32,353	24.4%	240	950	13.2%	186	31,403	25.1%	241
Total	132,559	100.0%	\$309	7,222	100.0%	\$269	125,337	100.0%	\$311

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-26
Total PBGC Payees and Benefit Payments by Size of Monthly Payment (2015)
Single-Employer Program

Monthly Payment	Periodic Payees		Periodic Payments	
Less Than \$50	41,814	5.1%	\$17,326,356	0.3%
\$50 - \$99	111,582	13.5%	106,911,853	1.9%
\$100 - \$149	98,734	12.0%	150,952,811	2.8%
\$150 - \$199	72,970	8.8%	157,228,609	2.9%
\$200 - \$249	59,954	7.3%	166,485,082	3.0%
\$250 - \$299	45,177	5.5%	153,769,108	2.8%
\$300 - \$349	40,499	4.9%	162,825,332	3.0%
\$350 - \$399	30,945	3.8%	143,730,108	2.6%
\$400 - \$449	29,124	3.5%	153,218,450	2.8%
\$450 - \$499	23,625	2.9%	139,069,118	2.5%
\$500 - \$549	22,456	2.7%	146,108,326	2.7%
\$550 - \$599	18,830	2.3%	134,153,164	2.4%
\$600 - \$749	45,550	5.5%	378,670,835	6.9%
\$750 - \$999	50,592	6.1%	544,015,489	9.9%
\$1,000 - \$1,499	67,459	8.2%	1,029,351,196	18.8%
\$1,500 - \$1,999	36,257	4.4%	764,422,706	13.9%
\$2,000 - \$2,499	13,942	1.7%	381,722,903	7.0%
\$2,500 or More	15,656	1.9%	756,220,875	13.8%
Total	825,166	100.0%	\$5,486,182,322	100.0%

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 (2015)
Single-Employer Program

Monthly Payment	Periodic Retirees		Retiree Periodic Payments	
Less Than \$50	30,445	4.4%	\$12,751,431	0.3%
\$50 - \$99	78,231	11.3%	73,399,991	1.5%
\$100 - \$149	76,199	11.0%	116,610,313	2.3%
\$150 - \$199	60,488	8.7%	130,139,818	2.6%
\$200 - \$249	50,772	7.3%	140,388,783	2.8%
\$250 - \$299	38,011	5.5%	128,888,235	2.6%
\$300 - \$349	34,664	5.0%	138,882,768	2.8%
\$350 - \$399	26,726	3.9%	123,732,270	2.5%
\$400 - \$449	25,623	3.7%	134,403,230	2.7%
\$450 - \$499	20,827	3.0%	122,228,809	2.4%
\$500 - \$549	20,013	2.9%	129,863,420	2.6%
\$550 - \$599	16,849	2.4%	119,722,625	2.4%
\$600 - \$749	41,033	5.9%	340,351,112	6.8%
\$750 - \$999	45,887	6.6%	492,283,691	9.8%
\$1,000 - \$1,499	63,535	9.2%	970,111,152	19.4%
\$1,500 - \$1,999	35,084	5.1%	738,865,744	14.8%
\$2,000 - \$2,499	13,350	1.9%	365,121,270	7.3%
\$2,500 or More	14,870	2.1%	720,663,340	14.4%
Total	692,607	100.0%	\$4,998,408,003	100.0%

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 (2015)
Single-Employer Program

Monthly Payment	Periodic Beneficiaries		Beneficiary Periodic Payments	
Less Than \$50	11,369	8.6%	\$4,574,925	0.9%
\$50 - \$99	33,351	25.2%	33,511,862	6.9%
\$100 - \$149	22,535	17.0%	34,342,498	7.0%
\$150 - \$199	12,482	9.4%	27,088,791	5.6%
\$200 - \$249	9,182	6.9%	26,096,299	5.4%
\$250 - \$299	7,166	5.4%	24,880,873	5.1%
\$300 - \$349	5,835	4.4%	23,942,564	4.9%
\$350 - \$399	4,219	3.2%	19,997,838	4.1%
\$400 - \$449	3,501	2.6%	18,815,220	3.9%
\$450 - \$499	2,798	2.1%	16,840,309	3.5%
\$500 - \$549	2,443	1.8%	16,244,906	3.3%
\$550 - \$599	1,981	1.5%	14,430,539	3.0%
\$600 - \$749	4,517	3.4%	38,319,723	7.9%
\$750 - \$999	4,705	3.5%	51,731,798	10.6%
\$1,000 - \$1,499	3,924	3.0%	59,240,044	12.1%
\$1,500 - \$1,999	1,173	0.9%	25,556,962	5.2%
\$2,000 - \$2,499	592	0.4%	16,601,633	3.4%
\$2,500 or More	786	0.6%	35,557,535	7.3%
Total	132,559	100.0%	\$487,774,319	100.0%

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 (2015)
Single-Employer Program

Industry	Periodic Payees		Periodic Payments		Mean Monthly Pension	Median Monthly Pension
AGRICULTURE, MINING, AND CONSTRUCTION	16,966	2.0%	\$88,189,470	1.6%	\$438	\$260
MANUFACTURING	527,130	63.6%	3,135,667,001	57.2%	392	220
Apparel and Textile Mill Products	68,559	8.3%	160,543,647	2.9%	188	104
Fabricated Metal Products	47,245	5.7%	197,726,615	3.6%	339	216
Food and Tobacco Products	13,712	1.7%	43,430,309	0.8%	255	160
Machinery and Computer Equipment	35,163	4.2%	177,015,312	3.2%	406	228
Motor Vehicle Equipment	58,137	7.0%	733,680,965	13.4%	1004	975
Primary Metals	202,719	24.5%	1,362,786,768	24.8%	544	350
Rubber and Miscellaneous Plastics	12,201	1.5%	44,852,035	0.8%	303	201
Other Manufacturing	89,394	10.8%	415,631,350	7.6%	376	213
TRANSPORTATION AND PUBLIC UTILITIES	156,113	18.9%	1,625,679,139	29.6%	833	480
Air Transportation	145,125	17.5%	1,570,903,480	28.6%	866	509
Other Transportation	10,935	1.3%	54,651,810	1.0%	402	203
Public Utilities	53	*	123,849	*	196	148
INFORMATION	5,989	0.7%	25,219,835	0.5%	357	205
WHOLESALE TRADE	12,267	1.5%	51,631,616	0.9%	355	211
RETAIL TRADE	35,864	4.3%	110,792,112	2.0%	252	158
FINANCE, INSURANCE, AND REAL ESTATE	24,673	3.0%	180,696,872	3.3%	593	343
SERVICES	44,647	5.4%	256,865,251	4.7%	471	259
Health Care	27,900	3.4%	166,503,872	3.0%	483	291
Other Services	16,747	2.0%	90,361,379	1.6%	438	210
NON-PROFIT ORGANIZATIONS	1,518	0.2%	11,441,027	0.2%	620	330
TOTAL	825,166	100.0%	\$5,486,182,322	100.0%	\$536	\$279

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 (1980-2016)
Single-Employer Program

Year	Total Insured Participants (in thousands)	In Plans with 10,000 or more Participants (in thousands)	In Plans with 5,000-9,999 Participants (in thousands)	In Plans with 1,000-4,999 Participants (in thousands)	In Plans with 250-999 Participants (in thousands)	In Plans with 100-249 Participants (in thousands)	In Plans with 25-99 Participants (in thousands)	In Plans with Fewer Than 25 Participants (in thousands)
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	34,407	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	28,630	19,523	3,099	4,079	1,307	341	198	80

Source: PBGC Premium Filings.

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

Table S-31
PBGC-Insured Plans (1980-2016)
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

Source: PBGC Premium Filings.

Table S-32
PBGC-Insured Plan Participants by Participant Status (1980-2014)
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%

*Source: Internal Revenue Service Form 5500 Series 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%.
 Figures for 2012 and beyond are estimates from PBGC internal calculations.*

Table S-33
PBGC-Insured Active Participants
as a Percent of Private-Sector Wage and Salary Workers
(1980-2014)

Year	Private-Sector Wage and Salary Workers (in thousands)	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%

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 (2001-2014)
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	2.3%
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	30.3%	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	14.8%	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	10.5%
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%	1,010	401	39.7%	1,960	381	19.4%	19,374	4,377	22.6%

Source: Internal Revenue Service Form 5500 Series 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 (2001-2014)
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 Participants (in thousands)	Participants in Hybrid Plans (in thousands)	Percent Hybrid	Total Participants (in thousands)	Participants in Hybrid Plans (in thousands)	Percent Hybrid	Total Participants (in thousands)	Participants in Hybrid Plans (in thousands)	Percent Hybrid	Total Participants (in thousands)	Participants in Hybrid Plans (in thousands)	Percent Hybrid
2001	34,342	7,034	20.5%	24,761	6,180	25.0%	6,045	698	11.5%	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	4.6%
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	28.9%	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	40.1%	5,105	896	17.5%	2,639	232	8.8%
2010	33,447	12,490	37.3%	26,059	11,344	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	38.3%	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%	24,492	11,323	46.2%	4,366	934	21.4%	2,068	251	12.1%

Source: Internal Revenue Service Form 5500 Series 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 (2008-2014)
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**		
Number of Plans							
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
Percent of Plans							
2008	27.9%	21.0%	3.6%	2.0%	1.2%	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%	1.5%	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%

Source: PBGC Premium Filings.

*Hard-frozen plans are plans where no participants are receiving new benefit accruals for additional service or higher compensation.

**Includes plans where only service is frozen, or pay and/or service is 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 (2008-2014) 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)	
Number of Active Participants								
(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
Percent of Active Participants								
2008	8.3%	5.7%	3.6%	17.5%	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%

Sources: PBGC Premium Filings and Internal Revenue Service Form 5500 Series 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 (2014)
Single-Employer Program

Industry	Insured Plans		Insured Participants <i>(in thousands)</i>		Premiums <i>(in millions)</i>	
AGRICULTURE, MINING, AND CONSTRUCTION	1,969	8.8%	525	1.7%	\$61.6	1.6%
MANUFACTURING	4,876	21.8%	13,491	43.6%	\$1,832.4	48.1%
Chemical and Allied Products	466	2.1%	1,650	5.3%	\$238.0	6.2%
Fabricated Metal Products	769	3.4%	461	1.5%	\$63.3	1.7%
Food, Beverage and Tobacco Products	485	2.2%	1,243	4.0%	\$106.3	2.8%
Machinery and Computer Equipment	611	2.7%	1,714	5.5%	\$225.7	5.9%
Motor Vehicle Equipment	219	1.0%	1,613	5.2%	\$266.8	7.0%
Paper Manufacturing	176	0.8%	509	1.6%	\$89.4	2.3%
Primary Metals	279	1.2%	459	1.5%	\$97.2	2.5%
Rubber and Miscellaneous Plastics	237	1.1%	292	0.9%	\$27.8	0.7%
Other Manufacturing	1,634	7.3%	5,551	17.9%	\$718.0	18.8%
TRANSPORTATION AND PUBLIC UTILITIES	833	3.7%	2,479	8.0%	\$426.2	11.2%
Air Transportation	54	0.2%	602	1.9%	\$191.5	5.0%
Other Transportation	461	2.1%	768	2.5%	\$78.0	2.0%
Public Utilities	318	1.4%	1,109	3.6%	\$156.7	4.1%
INFORMATION	601	2.7%	1,974	6.4%	\$254.1	6.7%
WHOLESALE TRADE	1,730	7.7%	735	2.4%	\$81.1	2.1%
RETAIL TRADE	1,035	4.6%	1,457	4.7%	\$125.6	3.3%
FINANCE, INSURANCE, AND REAL ESTATE	3,946	17.7%	3,973	12.8%	\$298.2	7.8%
SERVICES	6,655	29.8%	6,094	19.7%	\$696.1	18.3%
Health Care	1,806	8.1%	3,044	9.8%	\$358.3	9.4%
Other Services	4,849	21.7%	3,051	9.9%	\$337.8	8.9%
NON-PROFIT ORGANIZATIONS	699	3.1%	198	0.6%	\$36.7	1.0%
TOTAL	22,344	100.0%	30,926	100.0%	\$3,812.0	100.0%

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.

**Table S-39
PBGC's Historic Premium Rates
Single-Employer Program**

Plan Year(s) Beginning	Flat-Rate Premium	Variable-Rate Premium*		Premium for Certain Terminated Plans
	Rate per Participant	Rate per \$1,000 of Unfunded Vested Liabilities	Per-Participant Cap**	Rate per Participant (applicable for three years)
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 - 1996	\$19	\$9	\$53***	--
1997 - 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

* 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 additional 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 7/1/94 – 6/30/1996), the VRP cap was \$53 plus an variable amount based on the the plan's funded status. 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 (1980-2016)
Single-Employer Program

Year	Flat-Rate Premium		Variable-Rate Premium		Termination Premium, net of bad debt expense*		Total Premium
	<i>(in millions)</i>		<i>(in millions)</i>		<i>(in millions)</i>		
1980	\$71	100.0%	--	--	--	--	\$71
1985	\$82	100.0%	--	--	--	--	\$82
1990	\$509	77.2%	\$150	22.8%	--	--	\$659
1995	\$587	70.0%	\$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	68.2%	\$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%	\$0	0.0%	\$1,822
2010	\$1,188	53.2%	\$1,043	46.8%	\$0	0.0%	\$2,231
2011	\$1,143	55.2%	\$929	44.8%	\$0	0.0%	\$2,072
2012	\$1,123	42.5%	\$1,495	56.6%	\$24	0.9%	\$2,642
2013	\$1,274	43.3%	\$1,580	53.7%	\$88	3.0%	\$2,942
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

Sources: 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 (2014)
Single-Employer Program (in millions)

Number of Plan Participants	Flat-Rate Premium		Variable-Rate Premium		Total Premium*	
Fewer Than 100	\$14.2	1.0%	\$24.4	1.0%	\$38.6	1.0%
100 - 499	\$41.8	3.0%	\$96.8	4.0%	\$138.6	3.6%
500 - 999	\$38.3	2.8%	\$84.8	3.5%	\$123.2	3.2%
1,000 - 2,499	\$91.9	6.7%	\$206.3	8.5%	\$298.2	7.8%
2,500 - 4,999	\$100.5	7.3%	\$183.7	7.5%	\$284.2	7.4%
5,000 - 9,999	\$152.7	11.1%	\$288.0	11.8%	\$440.8	11.5%
10,000 or more	\$939.6	68.1%	\$1,554.9	63.8%	\$2,494.5	65.3%
Total	\$1,379.0	100.0%	\$2,439.0	100.0%	\$3,818.0	100.0%
Percent of Total	41%		59%		100%	

Source: 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 (2014)
Single-Employer Program

Variable-Rate Premium (VRP), Expressed on a Participant Basis	Plans	Percent of Plans Paying VRP	Percent of All Plans	Participants	Percent of Participants in Plans Paying VRP	Percent of All Participants
No Variable-Rate Premium Paid	10,902	---	48.8%	12,141,289	---	39.3%
Variable-Rate Premium Payers						
\$0.01 - \$9.99	571	5.0%	2.6%	1,048,580	5.6%	3.4%
\$10.00 - \$19.99	1,781	15.6%	8.0%	1,891,628	10.1%	6.1%
\$20.00 - \$29.99	1,214	10.6%	5.4%	903,107	4.8%	2.9%
\$30.00 - \$39.99	962	8.4%	4.3%	1,146,824	6.1%	3.7%
\$40.00 - \$49.99	699	6.1%	3.1%	970,467	5.2%	3.1%
\$50.00 - \$59.99	626	5.5%	2.8%	1,076,438	5.7%	3.5%
\$60.00 - \$69.99	524	4.6%	2.3%	794,223	4.2%	2.6%
\$70.00 - \$79.99	469	4.1%	2.1%	802,499	4.3%	2.6%
\$80.00 - \$89.99	433	3.8%	1.9%	700,282	3.7%	2.3%
\$90.00 - \$99.99	413	3.6%	1.8%	871,103	4.6%	2.8%
\$100.00 - \$149.99	1,380	12.1%	6.2%	3,425,461	18.2%	11.1%
\$150.00 - \$199.99	809	7.1%	3.6%	1,907,913	10.2%	6.2%
\$200.00 - \$249.99	504	4.4%	2.3%	1,533,038	8.2%	5.0%
\$250.00 - \$299.99	329	2.9%	1.5%	500,345	2.7%	1.6%
\$300.00 or More	727	6.4%	3.3%	1,212,802	6.5%	3.9%
Subtotal	11,442	100.0%	51.2%	18,784,711	100.0%	60.7%
Total All Plans	22,344	---	100.0%	30,926,000	---	100.0%

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 (1992-2014)*
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%

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 five 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 alternative methods.

Table S-44
Funding of PBGC-Insured Plans (1980-2014)
Single-Employer Program

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Funding Ratio	Underfunding (in millions)	Overfunding (in millions)	PBGC Rate
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%

Sources: Internal Revenue Service Form 5500 Series 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$720,178.

Table S-45
Funding of Underfunded PBGC-Insured Plans (1980-2014)
Single-Employer Program

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Underfunding (in millions)	Funding Ratio	PBGC Rate
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	929,041	113,805	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	448,954	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	75%	2.68%
2014	1,949,946	2,349,252	399,306	83%	3.54%

Sources: Internal Revenue Service Form 5500 Series 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(1)(7)-1 of the Income Tax Regulations for 2007 and later.

**Before plan year 2012, durations of 15.02 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. Beginning in plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$720,178.

Table S-46
Funding of Overfunded PBGC-Insured Plans (1980-2014)
Single-Employer Program

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Overfunding (in millions)	Funding Ratio	PBGC Rate
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	138%	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	129%	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	1,191,406	1,001,423	189,983	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%

Sources: Internal Revenue Service Form 5500 Series 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(1)(7)-1 of the Income Tax Regulations for 2007 and later.

**Beginning in plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$720,178.

Table S-47
Concentration of Underfunding in PBGC-Insured Plans (1990-2014)
Single-Employer 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	\$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	39.2%	
1992	47,528	21,610	45.5%	7,818	16.4%	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	21.2%	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	321,831	34,899	10.8%	62,414	19.4%	224,517	69.8%	
2005	282,953	29,255	10.3%	50,825	18.0%	202,874	71.7%	
2006	185,883	23,881	12.8%	31,663	17.0%	130,339	70.1%	
2007	113,805	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	17.7%	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	399,306	67,242	16.8%	76,984	19.3%	255,081	63.9%	

Sources: Internal Revenue Service Form 5500 Series 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 (2014)
Single-Employer Program

Funding Ratio	Plans		Participants		Total Liabilities*		Underfunding		Overfunding	
			<i>(in thousands)</i>		<i>(in millions)</i>		<i>(in millions)</i>		<i>(in millions)</i>	
Less Than 40%	132	0.6%	112	0.4%	\$13,795	0.5%	\$9,500	2.4%	---	---
40% - 49%	174	0.8%	87	0.3%	13,828	0.5%	8,082	2.0%	---	---
50% - 59%	790	3.5%	232	0.8%	18,518	0.7%	7,913	2.0%	---	---
60% - 69%	2,856	12.8%	2,283	7.4%	149,734	5.7%	50,185	12.6%	---	---
70% - 79%	5,730	25.6%	7,918	25.6%	633,518	24.0%	151,749	38.0%	---	---
80% - 89%	4,812	21.5%	10,293	33.3%	921,659	34.9%	136,563	34.2%	---	---
90% - 99%	2,512	11.2%	6,288	20.3%	598,200	22.6%	35,313	8.8%	---	---
100% - 109%	2,745	12.3%	2,154	7.0%	158,893	6.0%	---	---	\$9,147	21.3%
110% - 119%	687	3.1%	779	2.5%	72,674	2.8%	---	---	9,145	21.3%
120% - 129%	421	1.9%	306	1.0%	26,558	1.0%	---	---	6,435	15.0%
130% - 139%	236	1.1%	187	0.6%	13,651	0.5%	---	---	4,936	11.5%
140% - 149%	163	0.7%	122	0.4%	12,958	0.5%	---	---	5,596	13.0%
150% or More	1,087	4.9%	165	0.5%	8,411	0.3%	---	---	7,635	17.8%
Total	22,344	100.0%	30,926	100.0%	\$2,642,397	100.0%	\$399,306	100.0%	\$42,893	100.0%
Underfunded	17,006	76.1%	27,213	88.0%	\$2,349,252	88.9%	\$399,306	100.0%	---	---
Overfunded	5,339	23.9%	3,713	12.0%	\$293,145	11.1%	---	---	\$42,893	100.0%

Sources: Internal Revenue Service Form 5500 Series 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$720,178.

Table S-49
Various Measures of Underfunding in PBGC-Insured Plans (1992-2015)
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	54.24	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	---	186.63	217.70	---

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.

(D) Estimated total liabilities are based on all plan liabilities, whether vested or not. The same adjustment that is applied to and described in the footnote for the group labeled (A) is applied to this group.

Only (A) and (B) 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$720,178 for subgroup (A) and \$803,637 for subgroup (D).

Table S-50
Funding of PBGC-Insured Plans by Industry (2014)
Single-Employer Program

Industry	Average Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
AGRICULTURE, MINING, AND CONSTRUCTION	83%	\$35,570	1.3%	\$6,153	1.5%	\$278	0.6%
MANUFACTURING	86%	1,250,100	47.3%	186,652	46.7%	15,507	36.2%
Chemical and Allied Products	88%	170,191	6.4%	25,353	6.3%	4,511	10.5%
Computer and Electronic Products	89%	88,190	3.3%	13,345	3.3%	3,372	7.9%
Electrical Equipment	82%	121,175	4.6%	22,363	5.6%	278	0.6%
Fabricated Metal Products	81%	28,550	1.1%	5,567	1.4%	268	0.6%
Food and Tobacco Products	91%	89,793	3.4%	9,046	2.3%	1,156	2.7%
Machinery Manufacturing	87%	62,961	2.4%	8,875	2.2%	600	1.4%
Motor Vehicle Equipment	86%	181,157	6.9%	26,284	6.6%	1,223	2.9%
Paper Manufacturing	84%	33,817	1.3%	6,721	1.7%	1,322	3.1%
Petroleum and Coal Products	88%	68,244	2.6%	8,208	2.1%	106	0.2%
Primary Metals	77%	41,127	1.6%	9,571	2.4%	23	0.1%
Other Manufacturing	87%	364,896	13.8%	51,320	12.9%	2,649	6.2%
TRANSPORTATION AND PUBLIC UTILITIES	81%	310,370	11.7%	60,694	15.2%	2,028	4.7%
Air Transportation	63%	77,020	2.9%	28,809	7.2%	256	0.6%
Other Transportation	87%	51,333	1.9%	6,925	1.7%	433	1.0%
Public Utilities	87%	182,016	6.9%	24,961	6.3%	1,339	3.1%
INFORMATION	84%	176,504	6.7%	28,854	7.2%	1,449	3.4%
WHOLESALE TRADE	87%	50,950	1.9%	8,143	2.0%	1,266	3.0%
RETAIL TRADE	83%	43,479	1.6%	7,793	2.0%	325	0.8%
FINANCE, INSURANCE AND REAL ESTATE SERVICES	96%	297,543	11.3%	28,255	7.1%	15,845	36.9%
Health Care	82%	163,839	6.2%	30,651	7.7%	622	1.5%
Other Services	89%	291,203	11.0%	37,957	9.5%	5,336	12.4%
NON-PROFIT ORGANIZATIONS	83%	22,839	0.9%	4,155	1.0%	238	0.6%
TOTAL	87%	\$2,642,397	100.0%	\$399,306	100.0%	\$42,892	100.0%

Sources: Internal Revenue Service Form 5500 Series 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively.

Table S-51
Pension Funding Data for PBGC-Insured Plans by Region and State (2014)
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)
NEW ENGLAND	\$12,997	\$11,485	\$1,513	\$202,329	\$245,371	\$43,042	\$215,326	\$256,856
Connecticut	1,166	1,027	140	127,464	155,409	27,945	128,630	156,436
Maine	195	93	102	4,230	5,163	933	4,425	5,255
Massachusetts	3,524	3,169	355	61,802	73,753	11,951	65,326	76,923
New Hampshire	101	81	20	2,513	3,189	676	2,614	3,270
Rhode Island	7,880	7,007	872	5,203	6,468	1,265	13,083	13,476
Vermont	132	108	24	1,116	1,389	273	1,248	1,497
MID-ATLANTIC	118,751	99,929	18,822	585,593	696,043	110,451	704,344	795,973
Delaware	1,368	1,350	18	18,462	23,981	5,519	19,830	25,331
District of Columbia	232	195	37	15,636	18,724	3,088	15,867	18,919
Maryland	1,599	1,263	337	46,860	57,964	11,104	48,459	59,226
New Jersey	61,245	50,961	10,284	133,039	158,379	25,340	194,284	209,340
New York	35,575	31,921	3,654	186,928	212,556	25,629	222,502	244,477
Pennsylvania	5,389	4,855	533	101,336	124,837	23,501	106,725	129,692
Virginia	13,021	9,093	3,928	82,089	97,923	15,834	95,110	107,016
West Virginia	323	292	31	1,243	1,680	437	1,567	1,972
SOUTHEAST	41,636	35,846	5,790	244,117	311,049	66,932	285,752	346,895
Alabama	727	556	171	6,032	7,266	1,234	6,759	7,823
Arkansas	172	138	34	2,237	2,819	582	2,409	2,958
Florida	4,690	3,544	1,146	24,125	30,672	6,547	28,816	34,217
Georgia	3,801	3,672	129	82,227	110,701	28,475	86,028	114,374
Kentucky	445	365	79	9,171	11,457	2,286	9,616	11,822
Louisiana	225	181	44	20,031	25,177	5,146	20,256	25,357
Mississippi	1,000	938	62	1,300	1,577	276	2,300	2,514
North Carolina	28,736	24,986	3,750	36,787	44,040	7,253	65,524	69,026
South Carolina	1,047	892	156	11,489	14,820	3,331	12,536	15,712
Tennessee	791	574	218	50,717	62,519	11,801	51,509	63,092
GREAT LAKES	100,581	92,047	8,535	452,915	546,228	93,314	553,496	638,275
Illinois	48,041	43,918	4,124	107,550	134,001	26,451	155,591	177,918
Indiana	8,283	7,511	773	13,948	17,044	3,096	22,231	24,554
Michigan	18,270	17,428	842	164,566	198,085	33,519	182,836	215,513
Minnesota	8,997	8,128	868	54,782	62,205	7,423	63,779	70,334
Ohio	8,030	7,126	905	79,880	96,598	16,718	87,910	103,724
Wisconsin	8,960	7,936	1,023	32,189	38,296	6,107	41,149	46,232

Sources: Internal Revenue Service Form 5500 Series 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively.

Table S-51 (Continued)
Pension Funding Data for PBGC-Insured Plans by Region and State (2014)
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)
MIDWEST	\$12,710	\$11,261	\$1,449	\$47,810	\$59,588	\$11,778	\$60,520	\$70,849
Iowa	1,026	899	127	9,207	11,547	2,340	10,233	12,446
Kansas	2,327	1,965	362	6,109	8,395	2,285	8,437	10,359
Missouri	5,680	5,077	602	23,635	29,325	5,690	29,315	34,402
Nebraska	3,649	3,305	344	7,191	8,232	1,041	10,840	11,537
North Dakota	20	11	8	1,110	1,396	286	1,130	1,408
South Dakota	8	4	4	557	693	136	565	697
SOUTHWEST	22,667	19,913	2,754	199,157	234,356	35,199	221,824	254,269
Arizona	597	397	200	9,644	11,553	1,909	10,240	11,950
New Mexico	104	84	20	9,181	10,521	1,339	9,285	10,605
Oklahoma	187	171	16	5,412	6,571	1,159	5,599	6,742
Texas	21,779	19,261	2,518	174,920	205,712	30,792	196,699	224,973
ROCKY MOUNTAIN	2,718	2,516	202	22,764	27,031	4,267	25,482	29,547
Colorado	1,647	1,523	125	6,036	7,587	1,551	7,684	9,110
Idaho	34	25	10	3,601	4,590	989	3,635	4,615
Montana	11	10	1	724	907	182	736	917
Nevada	22	18	4	2,188	2,618	430	2,209	2,635
Utah	989	930	59	10,093	11,183	1,090	11,082	12,113
Wyoming	14	11	3	122	146	24	136	157
PACIFIC	23,460	19,652	3,808	191,253	224,342	33,089	214,713	243,995
Alaska	193	136	57	415	579	163	608	714
California	16,345	13,679	2,666	106,998	125,705	18,707	123,343	139,384
Hawaii	444	372	72	3,458	4,556	1,099	3,902	4,928
Oregon	643	555	89	9,352	11,727	2,375	9,995	12,282
Washington	5,834	4,910	924	71,031	81,776	10,745	76,865	86,686
U.S. TERRITORIES	498	477	21	2,942	3,955	1,012	3,440	4,432
Puerto Rico	498	477	21	2,765	3,740	975	3,262	4,217
Virgin Islands	---	---	---	171	206	36	171	206
Other	---	---	---	7	9	2	7	9
FOREIGN COUNTRIES	20	20	1	1,067	1,288	221	1,087	1,308
TOTAL	\$336,038	\$293,146	\$42,893	\$1,949,946	\$2,349,252	\$399,306	\$2,285,984	\$2,642,398

Sources: Internal Revenue Service Form 5500 Series 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 and 5.32 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively.

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

Region / State	Claims 1975-2015		Coverage 2015		Benefits Paid 2015		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
NEW ENGLAND	507	\$1,391,842,667	1,352	2,057,767	37,879	\$238,886,775	\$502
Connecticut	150	235,768,130	506	1,048,309	8,293	46,987,379	448
Maine	21	127,475,956	55	61,106	3,458	22,937,888	530
Massachusetts	247	831,158,982	584	757,875	16,943	113,244,876	534
New Hampshire	31	64,626,350	71	31,241	5,230	35,032,357	531
Rhode Island	48	118,331,902	89	145,976	2,175	11,632,807	427
Vermont	10	14,481,345	47	13,260	1,780	9,051,468	399
MID-ATLANTIC	1,516	14,571,369,939	6,610	10,539,335	199,214	1,273,337,433	512
Delaware	19	52,046,983	69	147,086	1,891	12,487,119	525
District of Columbia	59	176,633,244	192	851,519	478	3,016,131	502
Maryland	76	170,350,542	443	1,129,705	16,397	135,034,918	663
New Jersey	262	628,608,644	1,149	1,851,870	18,866	115,223,860	487
New York	543	3,861,444,589	2,983	3,740,837	47,255	326,068,863	551
Pennsylvania	431	5,602,846,329	1,241	1,715,756	77,966	477,105,651	491
Virginia	71	3,049,205,712	439	1,062,737	21,168	106,197,890	404
West Virginia	55	1,030,233,897	94	39,825	15,193	98,203,001	513
SOUTHEAST	485	5,551,699,280	2,606	3,606,177	213,990	1,200,316,321	447
Alabama	35	218,092,046	167	105,256	19,745	95,258,440	396
Arkansas	22	49,011,148	73	27,257	4,211	16,544,489	328
Florida	117	1,023,896,468	762	369,750	55,985	415,991,783	587
Georgia	82	2,342,499,657	447	1,233,498	29,747	178,640,117	477
Kentucky	32	122,922,033	204	123,003	9,498	39,656,625	354
Louisiana	26	82,662,272	145	163,033	5,937	31,546,022	423
Mississippi	12	18,491,638	78	24,159	7,409	42,003,520	449
North Carolina	62	517,147,841	361	840,360	41,075	191,182,314	370
South Carolina	26	170,714,117	134	107,635	19,347	85,729,293	352
Tennessee	71	1,006,262,059	235	612,226	21,036	103,763,718	393
GREAT LAKES	1,399	23,101,837,667	4,405	7,250,025	222,096	1,674,399,520	600
Illinois	337	9,264,786,940	1,266	2,702,268	41,388	306,079,995	590
Indiana	131	1,512,373,442	346	351,699	31,345	287,666,485	732
Michigan	373	6,956,271,447	735	1,478,082	46,673	387,150,957	657
Minnesota	46	190,257,952	409	1,008,671	8,860	56,153,355	521
Ohio	416	4,790,811,935	1,248	1,287,452	81,263	561,028,507	548
Wisconsin	96	387,335,952	401	421,853	12,567	76,320,221	486

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

Region / State	Claims 1975-2015		Coverage 2015		Benefits Paid 2015		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
MIDWEST	173	\$1,272,094,874	797	905,038	28,475	\$158,264,595	\$446
Iowa	59	138,853,742	202	139,034	6,006	18,619,227	248
Kansas	15	384,580,459	110	162,366	5,226	44,986,234	689
Missouri	86	736,235,057	316	473,723	14,925	82,825,942	444
Nebraska	10	11,970,279	103	111,737	1,593	6,841,731	358
North Dakota	2	202,577	39	7,384	136	545,796	329
South Dakota	1	252,760	27	10,794	589	4,445,665	597
SOUTHWEST	203	1,602,164,726	1,644	1,831,150	39,569	272,130,429	546
Arizona	32	24,435,671	318	127,714	10,304	83,984,635	649
New Mexico	9	26,006,083	62	28,190	1,977	12,011,758	486
Oklahoma	24	51,908,752	133	71,666	4,042	20,804,195	411
Texas	138	1,499,814,220	1,131	1,603,580	23,246	155,329,841	530
ROCKY MOUNTAIN	59	306,851,468	589	459,983	20,356	192,143,786	750
Colorado	20	207,047,299	256	182,219	10,049	103,131,772	819
Idaho	9	17,683,597	48	25,214	2,053	14,524,538	557
Montana	5	3,822,039	48	6,720	650	6,039,805	749
Nevada	12	6,260,031	108	102,730	4,704	45,177,710	753
Utah	12	71,947,615	101	140,897	2,534	20,006,950	635
Wyoming	1	90,887	28	2,203	366	3,263,011	715
PACIFIC	345	1,118,591,730	4,090	3,118,885	60,699	534,165,503	698
Alaska	4	50,534,607	25	17,523	590	3,933,090	529
California	261	554,013,616	3,417	1,952,477	40,854	348,455,097	677
Hawaii	25	151,495,682	159	80,573	4,512	44,096,612	773
Oregon	24	50,363,246	219	214,341	4,253	32,534,888	608
Washington	31	312,184,580	270	853,971	10,490	105,145,816	792
PUERTO RICO	15	24,099,825	29	39,079	3,284	10,129,773	246
U.S. TERRITORIES	---	---	8	2,227	183	757,495	329
FOREIGN COUNTRIES	4	62,700,507	37	20,334	2,429	15,223,299	497
TOTAL	4,706	\$49,003,252,682	22,167	29,830,000	828,176	\$5,569,754,929	\$536

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 (1990-2017)
Single-Employer Program

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

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 (1980-2016)
Multiemployer Program

Fiscal Year	Assets <i>(in millions)</i>	Liabilities <i>(in millions)</i>	Net Positions <i>(in millions)</i>
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

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 (1980-2016)
Multiemployer Program

Fiscal Year	Total Premium Revenue <i>(in millions)</i>	Benefit Payments <i>(in millions)</i>	Net Financial Assistance <i>(in millions)</i>	Administrative & Investment Expenses <i>(in millions)</i>	Premiums Minus Benefits, Financial Assistance and Expenses Paid <i>(in millions)</i>
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

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, 1980-2015)
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

**These payees were in the 10 multiemployer plans PBGC trustee 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.*

Table M-4
PBGC Financial Assistance to Insolvent Plans (Post-MPPAA Plans, 1981-2015)
Multiemployer Program

Year	Plans Receiving Financial Assistance ⁽¹⁾	Total Amount of Financial Assistance (in thousands)	Plans Receiving a Lump-Sum Payment ⁽²⁾	Amount of Lump-Sum Payment (in thousands)	Plans Receiving Periodic Payments ⁽¹⁾	Amount of Periodic Payments (in thousands)	Repayments of Past Financial Assistance (in thousands)
1981- 1994	7	\$2,611	---	---	7	\$2,611	\$165
1995	9	4,346	---	---	9	4,346	---
1996	12	4,022	---	---	12	4,022	---
1997	14	4,494	---	---	14	4,494	---
1998	18	5,438	---	---	18	5,438	3,176
1999	21	19,220	1	\$14,150	20	5,070	---
2000	21	91,033	2	86,514	19	4,519	---
2001	22	4,526	1 ⁽³⁾	53	22	4,473	---
2002	23	4,894	---	---	23	4,894	---
2003	24	5,022	1	231	23	4,791	---
2004	27	10,121	1 ⁽³⁾	282	27	9,839	---
2005	29	13,758	1 ⁽³⁾	535	28	13,223	---
2006	33	70,097	1	176	32	69,921	---
2007	36	71,870	3 ⁽³⁾	641	36	71,228	---
2008	42	84,623	5 ⁽⁴⁾	5,810	40	78,813	---
2009	43 ⁽⁵⁾	85,637	4 ⁽³⁾	7,309	41	78,328	---
2010	50	97,083	7 ⁽⁶⁾	10,413	44	86,670	---
2011	49	114,326	5 ⁽⁴⁾	14,310	47	100,016	---
2012	49	95,068	5	1,018	44	94,050	---
2013	44	89,198	---	---	44	89,198	---
2014	53	96,520	---	---	53	96,520	---
2015	58	102,595	2	1,269	57	101,326	---
Total ⁽⁷⁾	81	\$1,076,500	39	\$142,710	70	\$933,789	\$3,341 ⁽⁸⁾

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.

Table M-5
PBGC-Insured Plan Participants (1980-2016)
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	7,997	5,072	925	751	731	299	147	71
1985	8,209	5,376	857	761	729	283	136	66
1990	8,534	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	8,740	6,058	906	718	641	263	110	44
1998	8,876	6,212	930	675	650	259	108	42
1999	8,991	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	9,829	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	10,032	7,504	884	696	644	212	67	24
2008	10,170	7,589	930	716	639	205	67	24
2009	10,396	7,864	907	708	628	203	64	23
2010	10,413	7,921	895	701	612	199	63	23
2011	10,281	7,867	827	699	600	202	64	22
2012	10,372	7,972	823	689	607	200	61	21
2013	10,399	7,971	835	700	613	202	58	21
2014	10,303	7,910	827	693	586	207	59	22
2015	10,300	7,944	822	667	601	192	59	21
2016	10,465	8,141	780	693	589	184	60	18

Source: PBGC Premium Filings.

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

Table M-6
PBGC-Insured Plans (1980-2016)
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

Source: PBGC Premium Filings.

Table M-7
PBGC-Insured Plan Participants by Participant Status (1980-2014)
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%

Source: Internal Revenue Service Form 5500 Series 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 (2014)
Multiemployer Program

Industry	Insured Plans		Insured Participants	
AGRICULTURE	8	0.6%	20,651	0.2%
MINING	4	0.3%	103,935	1.0%
CONSTRUCTION	759	53.3%	3,864,117	37.5%
Building Construction	96	6.7%	622,615	6.0%
Heavy Construction	69	4.8%	601,166	5.8%
Plumbing, Heating, and Air Conditioning	158	11.1%	452,056	4.4%
Electrical Work	122	8.6%	827,758	8.0%
Building Finishing Contractors	49	3.4%	224,995	2.2%
Foundation, Structure, and Exterior Work	147	10.3%	640,582	6.2%
Other Construction	118	8.3%	494,945	4.8%
MANUFACTURING	143	10.0%	950,150	9.2%
Food and Tobacco Products	30	2.1%	217,781	2.1%
Apparel and Textile Products	5	0.4%	32,388	0.3%
Paper and Allied Products	5	0.4%	81,525	0.8%
Printing and Publishing	23	1.6%	145,801	1.4%
Machinery and Computer Equipment	5	0.4%	273,374	2.7%
Electrical and Electronic Equipment	8	0.6%	7,564	0.1%
Furniture and Related	4	0.3%	13,058	0.1%
Other Manufacturing	63	4.4%	178,659	1.7%
TRANSPORTATION AND PUBLIC UTILITIES	147	10.3%	1,486,408	14.4%
Trucking	75	5.3%	1,333,383	12.9%
Water Transportation	45	3.2%	100,549	1.0%
Other Transportation and Public Utilities	27	1.9%	52,476	0.5%
INFORMATION	33	2.3%	224,556	2.2%
WHOLESALE TRADE	25	1.8%	50,843	0.5%
RETAIL TRADE	84	5.9%	1,589,881	15.4%
SERVICES	222	15.6%	2,012,886	19.5%
Administrative/Support	43	3.0%	346,267	3.4%
Health Care/Social Assistance	15	1.1%	509,545	4.9%
Accommodation/Food Service	26	1.8%	677,849	6.6%
Other Services	138	9.7%	479,225	4.7%
TOTAL	1,425	100.0%	10,303,427	100.0%

Source: Internal Revenue Service Form 5500 Series Filings.

Due to rounding of individual items, numbers and percents 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 (1980-2014)
Multiemployer Program

Beginning of Year	Assets <i>(in millions)</i>	Liabilities* <i>(in millions)</i>	Funding Ratio	Underfunding <i>(in millions)</i>	Overfunding <i>(in millions)</i>	PBGC Rate
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%

Source: Internal Revenue Service Form 5500 Series 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 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$553,842.

Table M-10
Funding of Underfunded PBGC-Insured Plans (1980-2014)
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	77%	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	39,497	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	209,181	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%

Source: Internal Revenue Service Form 5500 Series 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 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$553,842.

Table M-11
Funding of Overfunded PBGC-Insured Plans (1980-2014)
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%

Source: Internal Revenue Service Form 5500 Series 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(1)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively.

Table M-12
Concentration of Underfunding in PBGC-Insured Plans (1990-2014)
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	24.0%	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	23.2%	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	46.0%
2014	495,712	136,350	27.5%	136,095	27.5%	223,267	45.0%

Source: Internal Revenue Service Form 5500 Series 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 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively. As a point of reference the underfunding for 2012 derived using the previous factors would be \$553,842.

Table M-13
Plans, Participants, and Funding of PBGC-Insured Plans by Funding Ratio (2014)
Multiemployer Program

Funding Ratio	Plans		Participants		Total Liabilities* <i>(in millions)</i>		Underfunding <i>(in millions)</i>		Overfunding <i>(in millions)</i>	
Receiving Financial Assistance	53	3.72%	67,262	0.65%	\$193	**	\$187	**	---	---
Terminated Booked Plans***	61	4.28%	74,639	0.72%	3,281	0.34%	1,727	0.35%	---	---
Less Than 40%	196	13.75%	2,284,976	22.18%	209,593	21.76%	138,544	27.94%	---	---
40% - 49%	343	24.07%	3,380,482	32.81%	331,464	34.42%	182,579	36.82%	---	---
50% - 59%	396	27.79%	2,489,323	24.16%	246,765	25.62%	113,007	22.79%	---	---
60% - 69%	215	15.09%	1,657,945	16.09%	147,175	15.28%	55,563	11.20%	---	---
70% - 79%	70	4.91%	161,481	1.57%	11,934	1.24%	3,107	0.63%	---	---
80% - 89%	47	3.30%	103,271	1.00%	7,000	0.73%	1,106	0.22%	---	---
90% - 99%	17	1.19%	20,703	0.20%	1,045	0.11%	78	**	---	---
100% - 109%	10	0.70%	50,852	0.49%	3,972	0.41%	---	---	\$73	9.16%
110% - 119%	4	0.28%	3,260	**	62	**	---	---	9	1.14%
120% - 129%	2	0.14%	2,806	**	148	**	---	---	34	4.27%
130% - 139%	1	0.07%	925	**	32	**	---	---	12	1.50%
140% - 149%	1	0.07%	768	**	5	**	---	---	2	0.26%
150% or More	8	0.56%	4,735	**	428	**	---	---	665	83.66%
Subtotal	1,371	96.21%	10,236,166	99.35%	\$962,902	99.98%	\$495,712	99.96%	\$795	100.00%
Total	1,425	100.00%	10,303,428	100.00%	\$963,095	100.00%	\$495,900	100.00%	\$795	100.00%
Underfunded	1,345	94.39%	10,172,820	98.73%	\$958,255	99.50%	\$495,712	99.96%	---	---
Overfunded	26	1.82%	63,346	0.61%	\$4,647	0.48%	---	---	\$795	100.00%

Source: Internal Revenue Service Form 5500 Series 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(1)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively.

** 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 (2014)
Multiemployer Program

Industry	Average Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
AGRICULTURE	63%	\$914	0.1%	\$341	0.1%	---	---
MINING	45%	10,320	1.1%	5,671	1.1%	---	---
CONSTRUCTION	49%	472,966	49.1%	240,068	48.4%	553	69.5%
Building Construction	47%	77,434	8.0%	40,883	8.2%	1	0.1%
Heavy Construction	50%	84,310	8.8%	41,998	8.5%	---	---
Plumbing, Heating, and Air Conditioning	52%	64,707	6.7%	31,012	6.3%	61	7.6%
Electrical Work	52%	71,241	7.4%	34,304	6.9%	281	35.3%
Building Finishing Contractors	45%	29,049	3.0%	16,085	3.2%	31	3.9%
Foundation, Structure, and Exterior Work	48%	74,858	7.8%	39,366	7.9%	168	21.1%
Other Construction	49%	71,366	7.4%	36,420	7.3%	12	1.4%
MANUFACTURING	50%	59,092	6.1%	29,415	5.9%	96	12.1%
Food and Tobacco Products	46%	17,718	1.8%	9,633	1.9%	3	0.4%
Apparel and Textile Products	48%	33	0.0%	17	0.0%	---	---
Paper and Allied Products	43%	4,658	0.5%	2,677	0.5%	---	---
Printing and Publishing	42%	7,828	0.8%	4,526	0.9%	---	---
Furniture and Fixtures	33%	405	0.0%	272	0.1%	---	---
Machinery and Computer Equipment	59%	18,321	1.9%	7,661	1.5%	93	11.7%
Electrical and Electronic Equipment	67%	350	0.0%	114	0.0%	---	---
Other Manufacturing	54%	9,780	1.0%	4,514	0.9%	0	**
TRANSPORTATION AND PUBLIC UTILITIES	46%	195,512	20.3%	105,683	21.3%	36	4.5%
Trucking	44%	172,003	17.9%	95,804	19.3%	---	---
Water Transportation	59%	18,376	1.9%	7,518	1.5%	36	4.5%
Other Transportation and Public Utilities	54%	5,134	0.5%	2,361	0.5%	---	---
INFORMATION	44%	23,720	2.5%	13,388	2.7%	---	---
WHOLESALE TRADE	57%	2,699	0.3%	1,149	0.2%	1	0.1%
RETAIL TRADE	48%	70,872	7.4%	36,550	7.4%	11	1.4%
SERVICES	50%	126,807	13.2%	63,447	12.8%	99	12.4%
Administration/Support	46%	20,359	2.1%	11,001	2.2%	92	11.6%
Health Care/Social Assistance	53%	31,636	3.3%	14,892	3.0%	---	---
Accommodation/Food Service	50%	20,428	2.1%	10,219	2.1%	3	0.4%
Other Services	50%	54,384	5.6%	27,336	5.5%	3	0.4%
TOTAL	49%	\$962,902	100.0%	\$495,712	100.0%	\$795	100.0%

Source: Internal Revenue Service Form 5500 Series 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(1)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 and 5.41 for non-annuitants and annuitant liability, respectively, were used in the calculation. For plan year 2012 these durations were updated. The new values are 14 and 8 for non-annuitants and annuitants, respectively.

** Less than 0.05 of one percent.

Table M-15
PBGC Maximum Guaranteed Benefits (1980-2017)
Multiemployer Program

Date of Plan Insolvency	Monthly Benefit Formula	Maximum Monthly Guarantee <i>(30 Years of Service)*</i>	Maximum Annual Guarantee <i>(30 Years of Service)*</i>
September 27, 1980 to December 21, 2000	<p align="center">The participant's years of service multiplied by the sum of:</p> <p align="center">(1) 100% of the first \$5 of the monthly benefit accrual rate</p> <p align="center">-plus-</p> <p align="center">(2) 75% of the next \$15 of the monthly benefit accrual rate</p>	\$487.50	\$5,850.00
On or after December 22, 2000**	<p align="center">The participant's years of service multiplied by the sum of:</p> <p align="center">(1) 100% of the first \$11 of the monthly benefit accrual rate</p> <p align="center">-plus-</p> <p align="center">(2) 75% of the next \$33 of the monthly benefit accrual rate</p>	\$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 - 2017)
Multiemployer Program

For Plan Years Beginning	Premium Rate (per participant)
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

* Beginning in 2007 and ending December 31, 2012, this amount was adjusted annually based on changes in the national average wage index (as defined in section 209(k)(1) of the Social Security Act). The premium rate did not decline even if the national average wage index declined. The adjusted premium rate was rounded to the nearest multiple of \$1.

Table M-17
Participants by Plan Zone Status and Participant Status
Multiemployer Program

Zone Status	Participant Type	Participants					
		2009	2010	2011	2012	2013	2014
Red	Active	38.5%	35.1%	31.6%	30.4%	29.7%	28.5%
	In Pay	33.0%	34.2%	36.3%	37.8%	38.3%	40.0%
	Separated Vested	28.5%	30.7%	32.1%	31.8%	32.0%	31.5%
	Total Participants	3,974,649	4,101,113	3,537,231	3,538,256	3,569,834	3,445,266
	Percent of System	38.2%	39.4%	34.4%	34.1%	34.3%	33.4%
Orange	Active	33.6%	27.4%	20.5%	21.9%	15.0%	43.9%
	In Pay	38.5%	54.2%	64.2%	64.8%	76.8%	47.1%
	Separated Vested	28.0%	18.5%	15.3%	13.3%	8.3%	9.0%
	Total Participants	1,476,899	335,515	194,294	194,453	139,225	5,707
	Percent of System	14.2%	3.2%	1.9%	1.9%	1.3%	0.1%
Yellow	Active	45.8%	44.0%	42.8%	42.7%	41.5%	41.3%
	In Pay	30.9%	32.9%	34.9%	35.4%	35.1%	35.3%
	Separated Vested	23.3%	23.1%	22.3%	21.9%	23.5%	23.4%
	Total Participants	1,831,957	1,381,897	1,230,241	1,353,239	1,332,333	1,179,963
	Percent of System	17.6%	13.3%	12.0%	13.0%	12.8%	11.5%
Green	Active	47.1%	43.0%	43.2%	43.2%	43.2%	43.2%
	In Pay	27.3%	29.9%	30.1%	29.6%	30.0%	30.5%
	Separated Vested	25.5%	27.0%	26.7%	27.2%	26.8%	26.3%
	Total Participants	3,112,495	4,594,476	5,319,234	5,286,052	5,357,332	5,672,064
	Percent of System	29.9%	44.1%	51.7%	51.0%	51.5%	55.1%

Source: Internal Revenue Service Form 5500 Series Filings.

Table M-18
Plans by Zone Status (2009 - 2014)
Multiemployer Program

ZONE STATUS	Plan Risk Status by Year (plan count)					
	2009	2010	2011	2012	2013	2014
Red	441	382	326	330	334	323
Orange	126	48	18	20	13	5
Yellow	295	228	211	226	196	159
Green	491	675	773	723	705	779
Total Classifiable Ongoing Plans*	1353	1333	1328	1299	1248	1266
ZONE STATUS	Plan Risk Status by Year (% of plans)					
	2009	2010	2011	2012	2013	2014
Red	32.6%	28.7%	24.5%	25.4%	26.8%	25.5%
Orange	9.3%	3.6%	1.4%	1.5%	1.0%	0.4%
Yellow	21.8%	17.1%	15.9%	17.4%	15.7%	12.6%
Green	36.3%	50.6%	58.2%	55.7%	56.5%	61.5%
Total System	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Internal Revenue Service Form 5500 Series Filings.

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

Table M-19
Administrative Expenses per Participant, by Industry and Zone
(2009 - 2014)
Multiemployer Program

SECTOR	ZONE STATUS	Administrative Expense per Participant (median, unadjusted dollars)					
		2009	2010	2011	2012	2013*	2014
CONSTRUCTION	Red	\$ 255	\$ 258	\$ 276	\$ 257	\$ 271	\$ 270
	Orange	\$ 246	\$ 207	\$ 212	\$ 324	\$ 245	\$ 322
	Yellow	\$ 220	\$ 252	\$ 244	\$ 240	\$ 250	\$ 253
	Green	\$ 232	\$ 226	\$ 227	\$ 220	\$ 234	\$ 241
All Construction		\$ 233	\$ 234	\$ 232	\$ 234	\$ 248	\$ 246
MANUFACTURING	Red	\$ 173	\$ 192	\$ 175	\$ 182	\$ 173	\$ 185
	Orange	\$ 151	\$ 163	\$ 250	\$ 176	\$ 163	\$ 259
	Yellow	\$ 184	\$ 261	\$ 179	\$ 236	\$ 177	\$ 156
	Green	\$ 187	\$ 184	\$ 194	\$ 183	\$ 185	\$ 205
All Manufacturing		\$ 181	\$ 189	\$ 180	\$ 182	\$ 174	\$ 189
TRANSPORTATION	Red	\$ 208	\$ 215	\$ 228	\$ 222	\$ 204	\$ 214
	Orange	\$ 213	\$ 347	\$ 764	\$ 212	\$ 308	n/a
	Yellow	\$ 294	\$ 239	\$ 265	\$ 259	\$ 293	\$ 245
	Green	\$ 310	\$ 266	\$ 278	\$ 302	\$ 334	\$ 317
All Transportation		\$ 244	\$ 246	\$ 260	\$ 267	\$ 269	\$ 269
ALL OTHER INDUSTRIES	Red	\$ 154	\$ 156	\$ 152	\$ 153	\$ 160	\$ 174
	Orange	\$ 188	\$ 156	\$ 254	\$ 232	\$ 266	\$ 407
	Yellow	\$ 231	\$ 193	\$ 180	\$ 211	\$ 169	\$ 184
	Green	\$ 199	\$ 195	\$ 207	\$ 195	\$ 201	\$ 208
All 'All Other Industries'		\$ 181	\$ 178	\$ 188	\$ 186	\$ 182	\$ 195
System-wide		\$ 216	\$ 216	\$ 220	\$ 219	\$ 224	\$ 230

* Plans receiving financial assistance or those that have been booked are removed beginning 2013.

** 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 - 2014)
Multiemployer Program

SECTOR	ZONE STATUS	Administrative Expenses to Benefits Paid (median)					
		2009	2010	2011	2012	2013*	2014**
CONSTRUCTION	Red	5.4%	5.2%	5.7%	5.5%	4.7%	4.6%
	Orange	6.2%	4.3%	2.5%	5.5%	5.6%	7.2%
	Yellow	5.3%	4.9%	4.6%	4.2%	4.0%	4.3%
	Green	6.9%	6.2%	5.6%	5.4%	5.4%	5.4%
All Construction		6.1%	5.6%	5.4%	5.1%	5.0%	5.1%
MANUFACTURING	Red	9.5%	8.6%	7.5%	7.1%	7.5%	6.8%
	Orange	6.7%	9.4%	9.9%	3.0%	4.0%	13.9%
	Yellow	8.1%	11.7%	9.4%	12.8%	11.1%	4.7%
	Green	10.2%	11.1%	9.9%	10.0%	8.4%	9.3%
All Manufacturing		10.0%	11.3%	10.1%	9.2%	8.7%	8.8%
TRANSPORTATION	Red	4.0%	4.3%	3.9%	3.9%	3.9%	3.6%
	Orange	4.3%	4.6%	11.5%	10.1%	5.6%	n/a
	Yellow	5.7%	4.5%	5.8%	3.6%	3.9%	2.8%
	Green	7.6%	8.8%	7.4%	6.8%	7.5%	7.2%
All Transportation		5.3%	5.8%	5.6%	5.4%	5.3%	5.5%
ALL OTHER INDUSTRIES	Red	7.6%	8.7%	8.3%	7.6%	8.4%	8.9%
	Orange	10.5%	6.8%	8.6%	6.6%	4.0%	4.7%
	Yellow	6.9%	6.9%	6.2%	5.4%	7.2%	6.0%
	Green	8.4%	9.1%	8.4%	7.7%	7.9%	7.5%
All 'All Other Industries'		8.6%	9.0%	8.6%	8.0%	8.3%	8.4%
System-wide		6.9%	6.5%	6.3%	6.0%	6.0%	5.9%

* Plans receiving financial assistance or those that have been booked are removed beginning 2013.

** This table uses more recent data than the 2015 ME supplement

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