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Overview

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

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

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

www.pbgc.gov/prac/data-books.html

A revision was made to Table S-3 on 07/18/2018 to correct for the values presented for plans which terminated in recent years.

A revision was made to Table S-19 on 08/30/2018 to correctly move plans between the 'Other Manufacturing' and 'Fabricated Metal Products' categories.

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 2016:			
Net Financial Position	-\$20,580	-\$58,833	-\$79,413
Total Assets	\$97,342	\$2,204	\$99,546
Total Liabilities	\$117,922	\$61,037	\$178,959
Premium Revenue*	\$6,379	\$282	\$6,661
Number of Insured Plans	22,333	1,375	23,708
Number of Insured Participants	28.6 million	10.5 million	39.1 million
Change in number of plans Trusteed or Pending Trusteeship**	63	N/A	63
Change in Claims*****	\$0	N/A	\$0
Total Number of Payees			
Paid Directly***	841,512	31	841,543
Paid Indirectly Through Financial Assistance	N/A	59,000	59,000
Total Benefit Payments			
Paid Directly to Payees	\$5,659	****	\$5,659
Financial Assistance Granted	N/A	\$113	\$113
Number of Plans Receiving Financial Assistance	N/A	65	65
Fiscal Years 1975-2016			
Plans Trusteed or Pending Trusteeship	4,769	10	4,779
Amount of Claims*****	\$49,003	\$31	\$49,034
Number of Plans Receiving Financial Assistance	N/A	99	99
Total Amount of Financial Assistance Granted	N/A	\$1,190	\$1,190

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 (1980-2017)
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
2017	\$106,196	\$117,110	-\$10,914

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 (1980-2017)
Single-Employer Program**

Fiscal Year	Total Premium Revenue (in millions)	Benefit Payments (in millions)	Administrative & Investment Expenses (in millions)	Premiums Minus Benefits Paid and Expenses (in millions)
1980	\$71	\$37	\$20	\$14
1985	82	170	33	-121
1990	659	369	63	227
1995	838	761	138	-61
1996	1,146	790	150	206
1997	1,067	823	155	89
1998	966	847	158	-39
1999	902	901	161	-160
2000	807	902	167	-262
2001	821	1,042	184	-405
2002	787	1,537	225	-975
2003	948	2,488	290	-1,830
2004	1,458	3,006	288	-1,836
2005	1,451	3,685	342	-2,576
2006	1,442	4,082	405	-3,045
2007	1,476	4,266	378	-3,168
2008	1,340	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	6,379	5,659	465	255
2017	\$6,739	\$5,699	\$481	\$559

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 (1975-2016)
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	2,274	5,117	2,843	448	2,395
1995 - 1999	15,089	444	1,414	2,197	783	77	705
2000	1,892	74	267	368	101	15	86
2001	1,748	117	2,535	3,686	1,151	185	965
2002	1,452	186	4,520	8,309	3,790	272	3,517
2003	1,203	172	6,934	13,409	6,474	210	6,264
2004	1,198	164	2,833	6,117	3,285	529	2,756
2005	1,108	129	10,318	21,566	11,248	1,799	9,449
2006	1,247	89	2,372	4,589	2,217	1,329	888
2007	1,233	78	630	974	344	31	313
2008	1,405	83	536	816	279	42	237
2009	1,294	191	10,097	17,377	7,280	1,290	5,990
2010	1,308	156	1,327	2,501	1,173	176	997
2011	1,400	100	857	1,539	682	81	602
2012	1,332	117	796	1,727	931	88	843
2013	1,481	92	1,436	2,882	1,445	107	1,339
2014	1,373	61	1,099	1,880	781	51	730
2015	1,197	41	680	1,335	654	12	642
2016	1,225	36	1,205	2,049	845	1	844
Total	140,935	4,769	\$53,440	\$102,443	\$49,003	\$7,117	\$41,886

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 (1975-2016)
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	2,842,595,574	\$841,082,434	29.6%	2,001,513,140	70.4%
1995	162,127,459	---	---	162,127,459	100.0%
1996	168,583,028	---	---	168,583,028	100.0%
1997	207,994,973	---	---	207,994,973	100.0%
1998	75,461,518	---	---	75,461,518	100.0%
1999	168,647,557	---	---	168,647,557	100.0%
2000	101,400,872	---	---	101,400,872	100.0%
2001	1,150,650,416	668,377,105	58.1%	482,273,310	41.9%
2002	3,789,520,834	2,081,361,846	54.9%	1,708,158,988	45.1%
2003	6,474,349,334	5,550,023,175	85.7%	924,326,159	14.3%
2004	3,284,840,930	692,584,383	21.1%	2,592,256,548	78.9%
2005	11,247,922,369	9,486,323,371	84.3%	1,761,598,998	15.7%
2006	2,216,860,201	1,710,043,418	77.1%	506,816,782	22.9%
2007	344,090,650	---	---	344,090,650	100.0%
2008	279,271,800	---	---	279,271,800	100.0%
2009	7,280,173,807	4,820,596,418	66.2%	2,459,577,389	33.8%
2010	1,173,165,402	---	---	1,173,165,402	100.0%
2011	682,330,648	---	---	682,330,648	100.0%
2012	930,968,696	---	---	930,968,696	100.0%
2013	1,445,391,382	---	---	1,445,391,382	100.0%
2014	780,777,404	---	---	780,777,404	100.0%
2015	654,386,675	---	---	654,386,675	100.0%
2016	844,604,828	---	---	844,604,828	100.0%
Total	\$49,002,749,967	\$25,850,392,150	52.8%	\$23,152,357,816	47.2%

Source: PBGC Fiscal Year Closing File

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

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

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

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

Table S-5
Top 10 Firms Presenting Claims (1975-2016)
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	4,820,596,418	66,614	72,366	9.8%
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	1,710,043,418	13,237	129,187	3.5%
7. National Steel	7	2003	1,319,009,116	35,152	37,523	2.7%
8. Pan American Air	3	1991, 1992	841,082,434	53,624	15,685	1.7%
9. Trans World Airlines	2	2001	668,377,105	32,197	20,759	1.4%
10. Weirton Steel	1	2004	640,480,970	9,825	65,189	1.3%
Top 10 Total	35		\$25,850,392,150	569,673	\$45,378	52.8%
All Other Total	4,734		23,152,357,816	1,703,811	13,589	47.2%
Total	4,769		\$49,002,749,967	2,273,484	\$21,554	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.

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

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

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

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

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

Table S-6
PBGC Trusteed Terminations (1975-2016)
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	---	---	586	12.3%
1980 - 1984	539	65	18	---	---	622	13.0%
1985 - 1989	450	67	15	5	---	537	11.3%
1990 - 1994	534	137	17	6	---	694	14.6%
1995 - 1999	310	118	16	---	---	444	9.3%
2000 - 2004	360	245	83	23	2	713	15.0%
2005 - 2009	235	246	70	12	7	570	12.0%
2010	68	67	19	2	---	156	3.3%
2011	32	51	17	---	---	100	2.1%
2012	39	60	17	1	---	117	2.5%
2013	25	46	19	2	---	92	1.9%
2014	13	32	15	1	---	61	1.3%
2015	9	25	5	2	---	41	0.9%
2016	15	11	6	4	---	36	0.8%
Total Plans	3,174	1,206	322	58	9	4,769	
Percent of Total	66.6%	25.3%	6.8%	1.2%	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.
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 (1975-2016)
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	449,702,276	447,349,948	1,819,857,866	---	2,842,595,574	5.8%
1995 - 1999	94,471,553	307,763,075	380,579,908	---	---	782,814,535	1.6%
2000 - 2004	120,656,127	812,070,934	2,455,749,091	6,015,509,058	\$5,396,777,176	14,800,762,386	30.2%
2005 - 2009	92,635,482	798,859,175	2,199,853,648	4,483,666,080	13,793,304,443	21,368,318,827	43.6%
2010	29,408,925	210,996,486	562,236,971	370,523,020	---	1,173,165,402	2.4%
2011	16,522,213	147,375,085	518,433,350	---	---	682,330,648	1.4%
2012	15,430,224	180,250,494	623,300,564	111,987,414	---	930,968,696	1.9%
2013	12,768,942	154,434,350	719,452,305	558,735,784	---	1,445,391,382	2.9%
2014	6,561,149	90,666,216	410,954,002	272,596,037	---	780,777,404	1.6%
2015	4,136,598	93,047,913	98,605,939	458,596,225	---	654,386,675	1.3%
2016	6,751,177	41,751,927	223,406,360	572,695,364	---	844,604,828	1.7%
Total	\$742,371,516	\$3,788,057,679	\$9,635,127,147	\$15,647,112,006	\$19,190,081,619	\$49,002,749,967	
Percent of Total	1.5%	7.7%	19.7%	31.9%	39.2%		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.

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 (1975-2016)
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	12.3%
1980 - 1984	220	134	135	133	622	13.0%
1985 - 1989	170	112	127	128	537	11.3%
1990 - 1994	190	153	182	169	694	14.6%
1995 - 1999	118	101	139	86	444	9.3%
2000 - 2004	118	202	248	145	713	15.0%
2005 - 2009	107	161	222	80	570	12.0%
2010	32	43	74	7	156	3.3%
2011	20	33	45	2	100	2.1%
2012	30	57	27	3	117	2.5%
2013	27	34	28	3	92	1.9%
2014	12	19	26	4	61	1.3%
2015	9	17	15	---	41	0.9%
2016	11	12	12	1	36	0.8%
Total	1,227	1,227	1,407	908	4,769	
Percent of Total	25.7%	25.7%	29.5%	19.0%		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 (1975-2016)
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	771,796,165	80,227,150	2,842,595,574	5.8%
1995 - 1999	103,144,596	184,382,061	339,689,572	155,598,306	782,814,535	1.6%
2000 - 2004	714,372,252	7,985,578,277	5,917,690,485	183,121,372	14,800,762,386	30.2%
2005 - 2009	232,888,497	9,440,914,359	11,526,787,967	167,728,003	21,368,318,827	43.6%
2010	56,597,936	289,033,185	826,285,484	1,248,796	1,173,165,402	2.4%
2011	108,539,071	162,728,659	400,058,414	11,004,504	682,330,648	1.4%
2012	45,208,212	650,157,627	219,689,035	15,913,822	930,968,696	1.9%
2013	149,761,850	504,277,168	791,154,118	198,246	1,445,391,382	2.9%
2014	28,103,665	137,316,810	582,693,127	32,663,801	780,777,404	1.6%
2015	19,525,403	422,856,407	212,004,865	---	654,386,675	1.3%
2016	13,578,370	58,128,006	767,072,912	5,825,540	844,604,828	1.7%
Total	\$4,486,583,072	\$21,201,676,337	\$22,637,036,124	\$677,454,434	\$49,002,749,967	
Percent of Total	9.2%	43.3%	46.2%	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 (1975-2016)
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%	907	267	44	9	---	1,227	25.7%
25%-49%	679	404	120	20	4	1,227	25.7%
50%-74%	774	455	144	29	5	1,407	29.5%
75% or More	814	80	14	---	---	908	19.0%
Total	3,174	1,206	322	58	9	4,769	
Percent of Total	66.6%	25.3%	6.8%	1.2%	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 (1975-2016)
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%	\$251,505,063	\$713,289,705	\$1,224,410,107	\$2,297,378,198	---	\$4,486,583,072	9.2%
25% - 49%	199,091,967	1,357,217,198	4,011,923,515	6,163,208,812	9,470,234,844	21,201,676,337	43.3%
50% - 74%	213,744,575	1,485,315,582	4,031,604,196	7,186,524,997	9,719,846,775	22,637,036,124	46.2%
75% or More	78,029,910	232,235,194	367,189,330	---	---	677,454,434	1.4%
Total	\$742,371,516	\$3,788,057,679	\$9,635,127,147	\$15,647,112,006	\$19,190,081,619	\$49,002,749,967	
Percent of Total	1.5%	7.7%	19.7%	31.9%	39.2%		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.

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 (1975-2016)
by Plan Size
Single-Employer Program

Number of Plan Participants	Vested Participants	Plans	Claims		Average Claim Per Participant	Claims* (2016 Dollars)		Average Claim Per Participant (2016 Dollars)
Fewer Than 100	102,041	2,815	\$1,114,386,100	2.3%	\$10,921	\$1,544,470,100	2.4%	\$15,136
100-999	513,283	1,620	5,536,022,838	11.3%	10,786	7,867,764,136	12.3%	15,328
1,000-4,999	526,384	259	8,414,481,558	17.2%	15,985	11,638,591,232	18.1%	22,110
5,000-9,999	274,166	38	6,377,660,486	13.0%	23,262	8,405,182,739	13.1%	30,657
10,000 or More	857,610	37	27,560,198,984	56.2%	32,136	34,741,111,378	54.1%	40,509
Total	2,273,484	4,769	\$49,002,749,967	100.0%	\$21,554	\$64,197,119,585	100.0%	\$28,237

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

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

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

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

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

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

*Claims in 2016 dollars are calculated using Consumer Price Index - Urban Consumers.

**Table S-13
PBGC Trusteed Plans (1975-2016)
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	12.3%
1980-1984	192	241	169	20	---	---	622	13.0%
1985-1989	156	201	161	14	4	1	537	11.3%
1990-1994	157	253	259	21	1	3	694	14.6%
1995-1999	98	164	147	31	3	1	444	9.3%
2000-2004	115	196	312	61	17	12	713	15.0%
2005-2009	115	156	219	57	5	18	570	12.0%
2010	38	53	53	10	2	---	156	3.3%
2011	22	35	33	10	---	---	100	2.1%
2012	36	38	36	6	1	---	117	2.5%
2013	29	29	24	8	2	---	92	1.9%
2014	13	17	26	4	---	1	61	1.3%
2015	12	12	14	2	1	---	41	0.9%
2016	11	10	8	4	2	1	36	0.8%
Total	1,187	1,628	1,620	259	38	37	4,769	
Percent of Total	24.9%	34.1%	34.0%	5.4%	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 (1975-2016)
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	562,142,008	883,782,003	62,798,863	1,245,201,267	2,842,595,574	5.8%
1995-1999	14,384,359	64,119,880	291,527,452	281,353,421	102,443,025	28,986,398	782,814,535	1.6%
2000-2004	22,619,910	130,976,589	1,304,883,788	2,373,964,242	3,045,986,954	7,922,330,903	14,800,762,386	30.2%
2005-2009	50,847,026	140,236,844	996,944,416	1,694,387,672	747,461,106	17,738,441,763	21,368,318,827	43.6%
2010	13,349,040	72,340,129	358,112,189	404,389,190	324,974,853	---	1,173,165,402	2.4%
2011	18,875,205	52,118,152	223,206,571	388,130,719	---	---	682,330,648	1.4%
2012	24,913,304	78,425,151	355,046,729	360,596,099	111,987,414	---	930,968,696	1.9%
2013	31,647,923	71,858,369	270,440,936	512,708,370	558,735,784	---	1,445,391,382	2.9%
2014	13,453,116	28,187,648	264,063,998	202,476,605	---	272,596,037	780,777,404	1.6%
2015	11,669,344	30,829,068	122,630,045	147,162,697	342,095,521	---	654,386,675	1.3%
2016	5,506,006	15,899,927	91,156,435	281,168,038	342,672,975	108,201,448	844,604,828	1.7%
Total	\$252,859,689	\$861,526,412	\$5,536,022,838	\$8,414,481,558	\$6,377,660,486	\$27,560,198,985	\$49,002,749,967	
Percent of Total	0.5%	1.8%	11.3%	17.2%	13.0%	56.2%		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.

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 (1975-2016)
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	1,128	59	---	---	---	1,187	24.9%
25-99	1,370	256	2	---	---	1,628	34.1%
100-999	663	822	135	---	---	1,620	34.0%
1,000-4,999	13	68	164	14	---	259	5.4%
5,000-9,999	---	1	14	23	---	38	0.8%
10,000 or More	---	---	7	21	9	37	0.8%
Total	3,174	1,206	322	58	9	4,769	
Percent of Total	66.6%	25.3%	6.8%	1.2%	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 (1975-2016)
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	\$153,053,815	\$99,805,874	---	---	---	\$252,859,689	0.5%
25-99	329,423,093	507,791,859	\$24,311,460	---	---	861,526,412	1.8%
100-999	253,477,517	2,841,053,447	2,441,491,874	---	---	5,536,022,838	11.3%
1,000-4,999	6,417,091	332,985,665	6,046,863,548	\$2,028,215,254	---	8,414,481,558	17.2%
5,000-9,999	---	6,420,835	782,574,767	5,588,664,884	---	6,377,660,486	13.0%
	---	---	339,885,498	8,030,231,868	\$19,190,081,619	27,560,198,985	56.2%
Total	\$742,371,516	\$3,788,057,679	\$9,635,127,147	\$15,647,112,006	\$19,190,081,619	\$49,002,749,967	
Percent of Total	1.5%	7.7%	19.7%	31.9%	39.2%		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.

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 (1975-2016)
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	457	250	207	273	1,187	24.9%
25-99	462	433	427	306	1,628	34.1%
100-999	269	438	630	283	1,620	34.0%
1,000-4,999	34	80	106	39	259	5.4%
5,000-9,999	4	15	16	3	38	0.8%
10,000 or More	1	11	21	4	37	0.8%
Total	1,227	1,227	1,407	908	4,769	
Percent of Total	25.7%	25.7%	29.5%	19.0%		100.0%

Source: PBGC Fiscal Year Closing File

**Table S-18
PBGC Claims (1975-2016)
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	\$142,420,893	\$69,769,426	\$36,424,467	\$4,244,903	\$252,859,689	0.5%
25-99	313,647,715	314,025,152	212,907,341	20,946,204	861,526,412	1.8%
100-999	852,298,313	2,037,775,431	2,409,685,273	236,263,821	5,536,022,838	11.3%
1,000-4,999	1,572,139,992	3,253,540,700	3,417,610,933	171,189,933	8,414,481,558	17.2%
5,000-9,999	826,538,771	2,800,491,908	2,621,466,848	129,162,959	6,377,660,486	13.0%
10,000 or more	779,537,389	12,726,073,720	13,938,941,262	115,646,614	27,560,198,985	56.2%
Total	\$4,486,583,073	\$21,201,676,337	\$22,637,036,124	\$677,454,434	\$49,002,749,967	
Percent of Total	9.2%	43.3%	46.2%	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 (1975-2016)
Single-Employer Program

Industry	Total Claims		Plans		Vested Participants	
AGRICULTURE, MINING, AND CONSTRUCTION	\$767,250,858	1.6%	272	5.7%	46,885	2.1%
MANUFACTURING	27,543,801,790	56.2%	2,820	59.1%	1,339,296	58.9%
Chemical and Allied Products	313,134,174	0.6%	58	1.2%	16,879	0.7%
Computer and Electronic Products	0	0.0%	0	0.0%	0	0.0%
Electrical Equipment	128,748,015	0.3%	74	1.6%	14,066	0.6%
Fabricated Metal Products	1,798,458,625	3.7%	666	14.0%	133,906	5.9%
Food and Tobacco Products	486,514,838	1.0%	183	3.8%	53,111	2.3%
Machinery Manufacturing	1,290,378,679	2.6%	289	6.1%	97,416	4.3%
Motor Vehicle Equipment	5,463,974,496	11.2%	133	2.8%	129,239	5.7%
Paper Manufacturing	292,858,380	0.6%	120	2.5%	23,191	1.0%
Petroleum and Coal Products	59,755,395	0.1%	15	0.3%	5,637	0.2%
Primary Metals	12,341,828,028	25.2%	351	7.4%	427,332	18.8%
Other Manufacturing	5,368,151,161	11.0%	931	19.5%	438,519	19.3%
TRANSPORTATION AND PUBLIC UTILITIES	14,450,272,146	29.5%	209	4.4%	379,331	16.7%
Air Transportation	14,010,557,848	28.6%	44	0.9%	340,734	15.0%
Other Transportation	438,215,981	0.9%	156	3.3%	38,230	1.7%
Public Utilities	1,498,317	0.0%	9	0.2%	367	0.0%
INFORMATION	438,085,810	0.9%	71	1.5%	21,124	0.9%
WHOLESALE TRADE	585,027,026	1.2%	297	6.2%	44,407	2.0%
RETAIL TRADE	1,041,729,542	2.1%	342	7.2%	175,099	7.7%
FINANCE, INSURANCE, AND REAL ESTATE	1,098,166,511	2.2%	158	3.3%	84,758	3.7%
SERVICES	2,893,690,918	5.9%	526	11.0%	175,445	7.7%
Health Care	1,684,818,347	3.4%	165	3.5%	102,180	4.5%
Other Services	1,208,872,571	2.5%	361	7.6%	73,265	3.2%
NON-PROFIT ORGANIZATIONS	184,725,365	0.4%	74	1.6%	7,139	0.3%
TOTAL	\$49,002,749,967	100.0%	4,769	100.0%	2,273,484	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 (1980-2016)
Single-Employer Program

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

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

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

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

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

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

Table S-21
PBGC Payees and Benefit Payments by Date of Plan Termination (Fiscal Year 2016)
Single-Employer Program

Fiscal Year of Plan Termination	2016 Payees		Benefit Payments in 2016 <i>(in millions)</i>		Average Monthly Pension	Median Monthly Pension	Deferred Payees in 2016 <i>(in thousands)</i>
Prior to 1980	3,004	0.4%	\$4	0.1%	\$107	\$84	1
1980 to 1984	15,544	1.8%	37	0.7%	197	159	2
1985 to 1989	27,571	3.3%	89	1.6%	265	196	4
1990 to 1994	79,183	9.4%	320	5.7%	330	239	16
1995	7,017	0.8%	26	0.5%	309	172	3
1996	8,794	1.0%	25	0.4%	233	133	3
1997	12,293	1.5%	42	0.7%	288	202	5
1998	4,300	0.5%	14	0.3%	273	164	3
1999	9,029	1.1%	28	0.5%	264	164	11
2000	8,050	1.0%	24	0.4%	250	140	3
2001	46,887	5.6%	267	4.7%	460	276	18
2002	89,156	10.6%	490	8.7%	448	276	26
2003	93,719	11.1%	808	14.3%	697	401	26
2004	68,512	8.1%	344	6.1%	416	245	32
2005	111,615	13.3%	1,086	19.2%	786	466	107
2006	17,648	2.1%	251	4.4%	1,128	489	15
2007	12,742	1.5%	56	1.0%	361	199	11
2008	9,771	1.2%	48	0.8%	413	222	11
2009	105,079	12.5%	1,065	18.8%	803	454	109
2010	26,080	3.1%	141	2.5%	458	268	30
2011	13,492	1.6%	78	1.4%	483	282	21
2012	12,132	1.4%	73	1.3%	512	251	21
2013	16,627	2.0%	126	2.2%	622	389	24
2014	15,183	1.8%	64	1.1%	379	162	22
2015	7,995	1.0%	38	0.7%	565	312	11
2016	7,224	0.9%	\$13	0.2%	494	197	25
Subtotal	\$828,647	98.5%	\$5,557	98.2%	\$535	\$278	559
Recently Terminated Plans	\$12,865	1.5%	\$102	1.8%	**	**	**
Total	\$841,512	100.0%	\$5,659	100.0%	**	**	559

This table is developed primarily using data from PBGC's Payment System (PPS). Some recently terminated plans are still in the process of being added to PPS. Because it's possible that some of those plans may have terminated before the current fiscal year, all terminated plans that are not yet in PPS are shown as a separate line item. Due to rounding of individual items, numbers may not add up to totals and percentages may not add up to 100%. During FY16 PBGC completed a payment system conversion. The figures presented are based on a reconciliation of the two systems.

Table S-22
PBGC Payees and Benefit Payments by Size of Trusteed Plan (Fiscal Year 2016)
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	23,430	2.8%	\$102	1.8%	\$352	\$183
100 - 499	89,687	10.7%	354	6.4%	319	190
500 - 999	60,482	7.2%	264	4.8%	353	208
1,000 - 4,999	190,014	22.7%	927	16.7%	394	230
5,000 - 9,999	109,135	13.0%	723	13.0%	535	289
10,000 - 24,999	160,722	19.2%	1,383	24.9%	695	298
25,000 or More	203,940	24.4%	1,792	32.3%	710	518
Total	837,410	100.0%	\$5,545	100.0%	\$535	\$278

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

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

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

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

Table S-23
Total PBGC Payees and Average Benefit Payments by Age and Gender (Fiscal Year 2016)
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	37,141	4.4%	\$384	19,131	4.0%	\$439	18,010	4.9%	\$326
60 - 64	96,379	11.5%	522	57,375	12.1%	601	39,004	10.7%	406
65 - 69	184,428	22.0%	571	109,935	23.3%	659	74,493	20.4%	443
70 - 74	169,623	20.3%	589	101,718	21.5%	701	67,905	18.6%	421
75 - 79	134,329	16.0%	580	79,239	16.8%	747	55,090	15.1%	339
80 - 84	101,523	12.1%	527	55,359	11.7%	733	46,164	12.7%	280
85 and Older	113,986	13.6%	412	50,014	10.6%	643	63,972	17.5%	232
Total	837,410	100.0%	\$535	472,771	100.0%	\$674	364,638	100.0%	\$356

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.

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

The weights to calculate averages was updated for the 2016 data tables.

Table S-24
PBGC Retired Payees and Average Benefit Payments,
by Age and Gender (Fiscal Year 2016)
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	27,050	4.0%	\$407	17,309	3.8%	\$454	9,741	4.3%	\$324
60 - 64	82,320	12.1%	544	55,111	12.1%	607	27,209	12.1%	417
65 - 69	161,430	23.7%	594	106,101	23.3%	662	55,329	24.6%	462
70 - 74	144,740	21.3%	623	98,250	21.5%	706	46,490	20.7%	446
75 - 79	109,146	16.0%	637	76,786	16.8%	756	32,360	14.4%	356
80 - 84	77,381	11.4%	604	53,833	11.8%	743	23,548	10.5%	285
85 and Older	78,747	11.6%	489	48,565	10.7%	654	30,182	13.4%	225
Total	680,814	100.0%	\$583	455,955	100.0%	\$682	224,859	100.0%	\$382

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.

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

The weights to calculate averages was updated for the 2016 data tables.

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

Age	Total Beneficiaries			Male			Female		
	Periodic Payees	Average Monthly Pension		Periodic Payees	Average Monthly Pension		Periodic Payees	Average Monthly Pension	
Younger Than 60	10,091	6.4%	\$324	1,822	10.8%	\$302	8,269	5.9%	\$328
60 - 64	14,059	9.0%	394	2,264	13.5%	478	11,795	8.4%	378
65 - 69	22,998	14.7%	416	3,834	22.8%	555	19,164	13.7%	388
70 - 74	24,883	15.9%	389	3,468	20.6%	543	21,415	15.3%	364
75 - 79	25,183	16.1%	331	2,453	14.6%	472	22,730	16.3%	316
80 - 84	24,142	15.4%	280	1,526	9.1%	370	22,616	16.2%	274
85 and Older	35,239	22.5%	240	1,449	8.6%	269	33,790	24.2%	239
Total	156,596	100.0%	\$330	16,816	100.0%	\$461	139,780	100.0%	\$314

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.

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

The weights to calculate averages were updated for the 2016 data tables.

Table S-26
Total PBGC Payees and Benefit Payments by Size of Monthly Payment (Fiscal Year 2016)
Single-Employer Program

Monthly Payment	Periodic Payees		Periodic Payments	
Less Than \$50	41,069	4.9%	\$17,505,066	0.3%
\$50 - \$99	112,338	13.4%	105,286,965	1.9%
\$100 - \$149	100,620	12.0%	151,571,376	2.7%
\$150 - \$199	75,306	9.0%	159,753,118	2.9%
\$200 - \$249	61,655	7.4%	168,985,337	3.0%
\$250 - \$299	46,306	5.5%	155,406,074	2.8%
\$300 - \$349	41,506	5.0%	164,664,867	3.0%
\$350 - \$399	31,580	3.8%	144,859,401	2.6%
\$400 - \$449	29,776	3.6%	154,607,322	2.8%
\$450 - \$499	23,965	2.9%	139,396,952	2.5%
\$500 - \$549	22,706	2.7%	146,008,963	2.6%
\$550 - \$599	18,941	2.3%	133,658,692	2.4%
\$600 - \$749	45,900	5.5%	378,596,013	6.8%
\$750 - \$999	51,229	6.1%	547,962,326	9.9%
\$1,000 - \$1,499	68,143	8.1%	1,046,456,073	18.9%
\$1,500 - \$1,999	36,138	4.3%	772,538,236	13.9%
\$2,000 - \$2,499	13,950	1.7%	385,656,189	7.0%
\$2,500 or More	16,281	1.9%	772,584,088	13.9%
Total	837,410	100.0%	\$5,545,497,056	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%.

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

Table S-27
PBGC Retired Payees and Benefit Payments by Size of Monthly Payment (Fiscal Year 2016)
Single-Employer Program

Monthly Payment	Periodic Retirees		Retiree Periodic Payments	
Less Than \$50	28,652	4.2%	\$12,419,819	0.3%
\$50 - \$99	76,257	11.2%	70,894,198	1.4%
\$100 - \$149	75,375	11.1%	114,656,929	2.3%
\$150 - \$199	60,411	8.9%	128,881,390	2.6%
\$200 - \$249	50,731	7.5%	139,248,646	2.8%
\$250 - \$299	37,862	5.6%	127,489,068	2.6%
\$300 - \$349	34,437	5.1%	137,018,273	2.8%
\$350 - \$399	26,476	3.9%	121,754,870	2.5%
\$400 - \$449	25,367	3.7%	132,211,673	2.7%
\$450 - \$499	20,468	3.0%	119,275,552	2.4%
\$500 - \$549	19,582	2.9%	126,314,126	2.6%
\$550 - \$599	16,475	2.4%	116,498,689	2.4%
\$600 - \$749	40,044	5.9%	330,962,097	6.7%
\$750 - \$999	44,942	6.6%	481,849,838	9.8%
\$1,000 - \$1,499	61,983	9.1%	955,179,571	19.4%
\$1,500 - \$1,999	33,644	4.9%	720,056,696	14.6%
\$2,000 - \$2,499	12,936	1.9%	358,249,899	7.3%
\$2,500 or More	15,172	2.2%	725,378,185	14.7%
Total	680,814	100.0%	\$4,918,339,517	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%.

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

Table S-28
PBGC Beneficiary Payees and Benefit Payments by Size of Monthly Payment (Fiscal Year 2016)
Single-Employer Program

Monthly Payment	Periodic Beneficiaries		Beneficiary Periodic Payments	
Less Than \$50	12,417	7.9%	\$5,085,247	0.8%
\$50 - \$99	36,081	23.0%	34,392,767	5.5%
\$100 - \$149	25,245	16.1%	36,914,447	5.9%
\$150 - \$199	14,895	9.5%	30,871,728	4.9%
\$200 - \$249	10,924	7.0%	29,736,691	4.7%
\$250 - \$299	8,444	5.4%	27,917,006	4.5%
\$300 - \$349	7,069	4.5%	27,646,594	4.4%
\$350 - \$399	5,104	3.3%	23,104,531	3.7%
\$400 - \$449	4,409	2.8%	22,395,649	3.6%
\$450 - \$499	3,497	2.2%	20,121,400	3.2%
\$500 - \$549	3,124	2.0%	19,694,837	3.1%
\$550 - \$599	2,466	1.6%	17,160,003	2.7%
\$600 - \$749	5,856	3.7%	47,633,916	7.6%
\$750 - \$999	6,287	4.0%	66,112,488	10.5%
\$1,000 - \$1,499	6,160	3.9%	91,276,502	14.6%
\$1,500 - \$1,999	2,494	1.6%	52,481,540	8.4%
\$2,000 - \$2,499	1,014	0.6%	27,406,290	4.4%
\$2,500 or More	1,109	0.7%	47,205,903	7.5%
Total	156,596	100.0%	\$627,157,539	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%.

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

Table S-29
PBGC Payees and Benefit Payments by Industry (Fiscal Year 2016)
Single-Employer Program

Industry	Periodic Payees		Periodic Payments		Mean Monthly Pension	Median Monthly Pension
AGRICULTURE, MINING, AND CONSTRUCTION	17,098	2.0%	\$92,581,940	1.7%	\$462	\$270
MANUFACTURING	528,184	63.1%	3,152,983,275	56.9%	494	255
Apparel and Textile Mill Products	67,162	8.0%	158,705,607	2.9%	208	107
Fabricated Metal Products	47,040	5.6%	195,202,444	3.5%	354	221
Food and Tobacco Products	13,380	1.6%	42,131,830	0.8%	265	162
Machinery and Computer Equipment	34,287	4.1%	172,752,169	3.1%	421	234
Motor Vehicle Equipment	59,059	7.1%	767,911,475	13.8%	1,022	944
Primary Metals	198,096	23.7%	1,318,712,619	23.8%	547	347
Rubber and Miscellaneous Plastics	12,134	1.4%	45,294,331	0.8%	320	204
Other Manufacturing	97,026	11.6%	452,272,801	8.2%	412	226
TRANSPORTATION AND PUBLIC UTILITIES	156,702	18.7%	1,625,797,270	29.3%	846	486
Air Transportation	145,903	17.4%	1,571,683,198	28.3%	877	513
Other Transportation	10,749	1.3%	53,995,232	1.0%	424	210
Public Utilities	50	*	118,840	*	197	152
INFORMATION	6,048	0.7%	27,042,190	0.5%	386	213
WHOLESALE TRADE	12,681	1.5%	55,126,631	1.0%	379	218
RETAIL TRADE	41,296	4.9%	120,004,494	2.2%	292	166
FINANCE, INSURANCE, AND REAL ESTATE	25,369	3.0%	184,411,713	3.3%	618	353
SERVICES	48,251	5.8%	274,831,181	5.0%	503	269
Health Care	29,274	3.5%	175,912,836	3.2%	508	298
Other Services	18,977	2.3%	98,918,345	1.8%	486	223
NON-PROFIT ORGANIZATIONS	1,781	0.2%	12,718,362	0.2%	634	343
TOTAL	837,410	100.0%	\$5,545,497,056	100.0%	\$535	\$278

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.*

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

**Table S-30
PBGC-Insured Plan Participants (1980-2017)
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
2017	27,510	18,838	2,941	3,885	1,246	319	196	85

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

**Table S-31
PBGC-Insured Plans (1980-2017)
Single-Employer Program**

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

Source: PBGC Premium Filings

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

**Table S-32
PBGC-Insured Plan Participants by Participant Status (1980-2015)
Single-Employer Program**

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

*Source: Form 5500 Filings
Data for plan years prior to 1999 include only plans with 100 or more participants.
Due to rounding of individual items, percentages may not add up to 100%.*

Table S-33
PBGC-Insured Active Participants
as a Percent of Private-Sector Wage and Salary Workers
(1980-2015)

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%
2015	119,565	8.9%	3.1%	12.0%

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 (2001-2015)
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%	1,007	401	39.8%	1,951	381	19.5%	19,386	4,377	22.6%
2015	22,166	5,442	24.6%	986	365	37.0%	1,864	368	19.7%	19,316	4,709	24.4%

Source: Form 5500 Filings

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

**Table S-35
PBGC-Insured Hybrid Plan Participants by Plan Size (2001-2015)
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 <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid	Total Participants <i>(in thousands)</i>	Participants in Hybrid Plans <i>(in thousands)</i>	Percent Hybrid
2001	34,342	7,034	20.5%	24,761	6,180	25.0%	6,045	698	11.5%	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%	24,506	11,323	46.2%	4,366	934	21.4%	2,055	251	12.2%
2015	29,830	11,356	38.1%	23,663	10,159	42.9%	4,174	934	22.4%	1,993	263	13.2%

Source: Form 5500 Filings

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

**Table S-36
PBGC-Insured Plans by Status of Benefit Accruals
and Participation Freeze (2008-2015)
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
2015	7,888	5,826	1,192	615	255	14,278	22,166
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%
2015	35.6%	26.3%	5.4%	2.8%	1.2%	64.4%	100.0%

Source: PBGC Premium Filings

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

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

Table S-37
Active Participants in PBGC-Insured Plans by Status of Benefit
Accruals and Whether a Plan is Open to New Entrants (2008-2015)
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
2015	2,055	1,271	643	3,969	1,120	5,573	6,693	10,663
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%
2015	19.3%	11.9%	6.0%	37.2%	10.5%	52.3%	62.8%	100.0%

Sources: PBGC Premium Filings and Form 5500 Filings

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

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

**Table S-38
PBGC-Insured Plans, Participants and Premiums by Industry (2015)
Single-Employer Program**

Industry	Insured Plans		Insured Participants (in thousands)		Premiums* (in millions)	
AGRICULTURE, MINING, AND CONSTRUCTION	2,076	9.4%	514	1.7%	\$65	1.6%
MANUFACTURING	4,647	21.0%	12,776	42.8%	1,979	48.0%
Chemical and Allied Products	444	2.0%	1,562	5.2%	263	6.4%
Computer and Electronic Products	173	0.8%	833	2.8%	146	3.5%
Electrical Equipment	222	1.0%	1,179	4.0%	285	6.9%
Fabricated Metal Products	725	3.3%	426	1.4%	65	1.6%
Food, Beverage and Tobacco Products	456	2.1%	1,180	4.0%	101	2.5%
Machinery Manufacturing	416	1.9%	698	2.3%	102	2.5%
Motor Vehicle Equipment	212	1.0%	1,520	5.1%	268	6.5%
Paper Manufacturing	162	0.7%	511	1.7%	81	2.0%
Petroleum and Coal Products	89	0.4%	530	1.8%	44	1.1%
Primary Metals	258	1.2%	425	1.4%	98	2.4%
Other Manufacturing	1,490	6.7%	3,912	13.1%	526	12.8%
TRANSPORTATION AND PUBLIC UTILITIES	804	3.6%	2,482	8.3%	442	10.7%
Air Transportation	52	0.2%	604	2.0%	153	3.7%
Other Transportation	446	2.0%	772	2.6%	101	2.4%
Public Utilities	306	1.4%	1,106	3.7%	189	4.6%
INFORMATION	592	2.7%	1,918	6.4%	288	7.0%
WHOLESALE TRADE	1,738	7.8%	694	2.3%	92	2.2%
RETAIL TRADE	1,045	4.7%	1,385	4.6%	144	3.5%
FINANCE, INSURANCE, AND REAL ESTATE	3,912	17.6%	3,896	13.1%	321	7.8%
SERVICES	6,689	30.2%	5,974	20.0%	752	18.2%
Health Care	1,759	7.9%	3,029	10.2%	414	10.1%
Other Services	4,930	22.2%	2,945	9.9%	337	8.2%
NON-PROFIT ORGANIZATIONS	663	3.0%	191	0.6%	39	0.9%
TOTAL	22,166	100.0%	29,830	100.0%	\$4,121	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.

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

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

Plan Year(s) Beginning	Flat-Rate Premium	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
2018	\$74	\$38	\$523	\$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 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 (1980-2017)
Single-Employer Program**

Year	Flat-Rate Premium (in millions)		Variable-Rate Premium (in millions)		Termination Premium, net of bad debt expense* (in millions)		Total Premium (in millions)
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
2017	\$1,785	26.5%	\$4,948	73.4%	\$6	0.1%	\$6,739

Source: Annual Report

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

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

Table S-41
PBGC Premium Revenue by Size of Plan and Type of Premium (2015)
Single-Employer Program (in millions)

Number of Plan Participants	Flat-Rate Premium		Variable-Rate Premium		Total Premium*	
Fewer Than 100	\$17	1.1%	\$21	0.8%	\$38	0.9%
100 - 499	48	3.1%	93	3.6%	141	3.4%
500 - 999	43	2.8%	88	3.4%	131	3.2%
1,000 - 2,499	105	6.7%	213	8.3%	318	7.7%
2,500 - 4,999	118	7.6%	207	8.1%	325	7.9%
5,000 - 9,999	170	10.9%	291	11.3%	460	11.2%
10,000 or more	1,055	67.8%	1,653	64.4%	2,708	65.7%
Total	\$1,556	100.0%	\$2,565	100.0%	\$4,121	100.0%
Percent of Total	37.8%		62.2%		100.0%	

Sources: PBGC Premium Filings and Annual Report

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

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

* Excludes termination premium revenues.

Table S-42
PBGC-Insured Plans and Participants by Variable Rate Premium Paid (2015)
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	11,411	---	51.5%	12,426,454	---	41.7%
Total Variable-Rate Premium Payers	10,755	100.0%	48.5%	17,403,546	100.0%	58.3%
\$0.01 - \$9.99	366	3.4%	1.7%	454,743	2.6%	1.5%
\$10.00 - \$19.99	1,483	13.8%	6.7%	442,045	2.5%	1.5%
\$20.00 - \$29.99	951	8.8%	4.3%	584,315	3.4%	2.0%
\$30.00 - \$39.99	704	6.5%	3.2%	386,942	2.2%	1.3%
\$40.00 - \$49.99	503	4.7%	2.3%	399,914	2.3%	1.3%
\$50.00 - \$59.99	409	3.8%	1.8%	237,860	1.4%	0.8%
\$60.00 - \$69.99	347	3.2%	1.6%	308,190	1.8%	1.0%
\$70.00 - \$79.99	301	2.8%	1.4%	561,872	3.2%	1.9%
\$80.00 - \$89.99	303	2.8%	1.4%	685,872	3.9%	2.3%
\$90.00 - \$99.99	273	2.5%	1.2%	380,185	2.2%	1.3%
\$100.00 - \$149.99	1,038	9.7%	4.7%	1,706,531	9.8%	5.7%
\$150.00 - \$199.99	892	8.3%	4.0%	2,680,893	15.4%	9.0%
\$200.00 - \$249.99	665	6.2%	3.0%	2,400,610	13.8%	8.0%
\$250.00 - \$299.99	466	4.3%	2.1%	898,938	5.2%	3.0%
\$300.00 or More	2,054	19.1%	9.3%	5,274,636	30.3%	17.7%
	22,166	---	100.0%	29,830,000	---	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 (1992-2015)*
Single-Employer Program

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

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 (1980-2015)
Single-Employer Program**

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Funding	Underfunding (in millions)	Overfunding (in millions)	PBGC Rate
1980	\$259,810	\$212,072	122.7%	\$20,156	\$67,894	8.50%
1985	500,673	308,617	162.2%	11,182	203,238	9.75%
1990	837,131	604,047	138.6%	35,689	268,773	7.25%
1991	848,251	687,896	123.3%	34,485	194,840	7.25%
1992	915,722	771,421	118.7%	47,528	191,829	6.25%
1993	951,972	844,803	112.7%	59,622	166,791	6.40%
1994	1,001,129	936,698	106.9%	75,569	140,000	5.65%
1995	1,032,503	887,730	116.3%	37,278	182,050	7.15%
1996	1,198,221	1,134,194	105.6%	83,071	147,098	5.30%
1997	1,368,188	1,192,222	115.0%	47,906	223,871	5.80%
1998	1,491,488	1,284,725	116.1%	49,242	256,005	5.40%
1999	1,692,755	1,455,469	116.3%	54,237	291,524	5.30%
2000	1,836,184	1,271,347	144.4%	6,566	571,403	7.00%
2001	1,714,534	1,374,416	124.7%	38,564	378,682	6.40%
2002	1,444,777	1,435,558	100.6%	142,573	151,793	5.70%
2003	1,372,490	1,620,607	84.7%	298,996	50,879	5.00%
2004	1,590,057	1,860,514	85.5%	321,831	51,373	4.00%
2005	1,728,856	1,946,593	88.8%	282,953	65,215	3.90%
2006	1,840,181	1,910,563	96.3%	185,883	115,502	4.50%
2007	2,006,652	1,930,465	103.9%	113,806	189,993	4.99%
2008	2,035,275	1,889,057	107.7%	84,932	231,150	5.37%
2009	1,561,308	1,945,001	80.3%	414,303	30,610	5.38%
2010	1,784,273	2,204,591	80.9%	448,954	28,637	4.52%
2011	2,019,906	2,377,262	85.0%	396,346	38,990	4.26%
2012	2,050,785	2,858,971	71.7%	823,419	15,233	2.95%
2013	2,166,151	2,908,473	74.5%	758,571	16,249	2.68%
2014	2,285,984	2,642,397	86.5%	399,306	42,893	3.54%
2015	\$2,350,663	\$2,979,124	78.9%	\$649,168	\$20,708	2.46%

Sources: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(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 with 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 (1980-2015)
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	72.8%	8.50%
1985	28,722	39,904	11,182	72.0%	9.75%
1990	95,068	130,758	35,689	72.7%	7.25%
1991	147,301	181,786	34,485	81.0%	7.25%
1992	172,372	219,900	47,528	78.4%	6.25%
1993	215,695	275,317	59,622	78.3%	6.40%
1994	308,516	384,085	75,569	80.3%	5.65%
1995	218,493	255,771	37,278	85.4%	7.15%
1996	493,597	576,668	83,071	85.6%	5.30%
1997	353,823	401,729	47,906	88.1%	5.80%
1998	358,514	407,756	49,242	87.9%	5.40%
1999	413,446	467,683	54,237	88.4%	5.30%
2000	63,218	69,784	6,566	90.6%	7.00%
2001	308,514	347,078	38,564	88.9%	6.40%
2002	778,351	920,925	142,573	84.5%	5.70%
2003	1,069,966	1,368,962	298,996	78.2%	5.00%
2004	1,229,811	1,551,642	321,831	79.3%	4.00%
2005	1,197,558	1,480,512	282,953	80.9%	3.90%
2006	971,052	1,156,935	185,883	83.9%	4.50%
2007	815,236	929,042	113,806	87.8%	4.99%
2008	698,799	783,731	84,932	89.2%	5.37%
2009	1,376,306	1,790,608	414,303	76.9%	5.38%
2010	1,576,485	2,025,439	448,954	77.8%	4.52%
2011	1,694,339	2,090,685	396,346	81.0%	4.26%
2012	1,935,907	2,759,325	823,419	70.2%	2.95%
2013	2,067,202	2,825,773	758,571	74.9%	2.68%
2014	1,949,946	2,349,252	399,306	83.0%	3.54%
2015	\$2,179,429	\$2,828,597	\$649,168	77.0%	2.46%

Sources: Form 5500 filings

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

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

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

Table S-46
Funding of Overfunded PBGC-Insured Plans (1980-2015)
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	149.2%	8.50%
1985	471,951	268,713	203,238	175.6%	9.75%
1990	742,063	473,289	268,773	156.8%	7.25%
1991	700,950	506,110	194,840	138.5%	7.25%
1992	743,350	551,520	191,829	134.8%	6.25%
1993	736,277	569,486	166,791	129.3%	6.40%
1994	692,613	552,613	140,000	125.3%	5.65%
1995	814,009	631,959	182,050	128.8%	7.15%
1996	704,624	557,526	147,098	126.4%	5.30%
1997	1,014,365	790,494	223,871	128.3%	5.80%
1998	1,132,974	876,969	256,005	129.2%	5.40%
1999	1,279,309	987,785	291,524	129.5%	5.30%
2000	1,772,966	1,201,563	571,403	147.6%	7.00%
2001	1,406,020	1,027,338	378,682	136.9%	6.40%
2002	666,426	514,633	151,793	129.5%	5.70%
2003	302,524	251,645	50,879	120.2%	5.00%
2004	360,246	308,872	51,373	116.6%	4.00%
2005	531,297	466,082	65,215	114.0%	3.90%
2006	869,129	753,627	115,502	115.3%	4.50%
2007	1,191,416	1,001,423	189,993	119.0%	4.99%
2008	1,336,476	1,105,326	231,150	120.9%	5.37%
2009	185,002	154,393	30,610	119.8%	5.38%
2010	207,789	179,152	28,637	116.0%	4.52%
2011	325,567	286,577	38,990	113.6%	4.26%
2012**	114,878	99,646	15,233	115.3%	2.95%
2013	98,949	82,700	16,249	119.6%	2.68%
2014	336,038	293,145	42,893	114.6%	3.54%
2015	\$171,234	\$150,526	\$20,708	113.8%	2.46%

Sources: Form 5500 filings

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

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

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

Table S-47
Concentration of Underfunding in PBGC-Insured Plans (1990-2015)
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%
2015	\$649,168	\$107,630	16.6%	\$127,262	19.6%	\$414,276	63.8%

Source: Form 5500 filings

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

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

**Table S-48
Plans, Participants, and Funding of PBGC-Insured Plans by Funding Ratio (2015)
Single-Employer Program**

Funding Ratio	Plans		Participants (in thousands)		Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
Less Than 40%	191	0.9%	181	0.6%	\$29,973	1.0%	\$20,054	3.1%	---	---
40% - 49%	526	2.4%	53	0.2%	3,385	0.1%	1,829	0.3%	---	---
50% - 59%	2,756	12.4%	1,335	4.5%	99,495	3.3%	43,257	6.7%	---	---
60% - 69%	6,179	27.9%	6,154	20.6%	552,593	18.5%	185,601	28.6%	---	---
70% - 79%	4,990	22.5%	10,101	33.9%	1,019,719	34.2%	255,128	39.3%	---	---
80% - 89%	2,646	11.9%	7,467	25.0%	788,139	26.5%	125,490	19.3%	---	---
90% - 99%	1,157	5.2%	3,040	10.2%	335,294	11.3%	17,810	2.7%	---	---
100% - 109%	2,136	9.6%	918	3.1%	93,045	3.1%	---	---	\$2,929	14.1%
110% - 119%	320	1.4%	251	0.8%	28,851	1.0%	---	---	4,335	20.9%
120% - 129%	169	0.8%	119	0.4%	10,104	0.3%	---	---	2,664	12.9%
130% - 139%	150	0.7%	55	0.2%	9,698	0.3%	---	---	3,707	17.9%
140% - 149%	103	0.5%	69	0.2%	3,519	0.1%	---	---	1,545	7.5%
150% or More	843	3.8%	87	0.3%	5,310	0.2%	---	---	5,528	26.7%
Total	22,166	100.0%	29,830	100.0%	\$2,979,124	100.0%	\$649,168	100.0%	\$20,708	100.0%
Underfunded	18,445	83.2%	28,331	95.0%	\$2,828,597	94.9%	\$649,168	100.0%	---	---
Overfunded	3,721	16.8%	1,499	5.0%	\$150,526	5.1%	---	---	\$20,708	100.0%

Source: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 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-49
Various Measures of Underfunding in PBGC-Insured Plans (1992-2016)
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	\$649.17	186.63	217.70	\$712.56
2016	---	\$234.37	\$223.28	---

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 (2015)
Single-Employer Program

Industry	Average Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
AGRICULTURE, MINING, AND CONSTRUCTION	74.9%	\$37,486	1.3%	\$9,558	1.5%	\$159	0.8%
MANUFACTURING	78.8%	1,390,752	46.7%	301,649	46.5%	6,479	31.3%
Chemical and Allied Products	79.1%	189,969	6.4%	40,662	6.3%	971	4.7%
Computer and Electronic Products	82.3%	90,078	3.0%	19,072	2.9%	3,101	15.0%
Electrical Equipment	72.6%	137,754	4.6%	37,808	5.8%	5	0.0%
Fabricated Metal Products	74.7%	32,040	1.1%	8,275	1.3%	156	0.8%
Food, Beverage and Tobacco Products	83.6%	102,191	3.4%	17,031	2.6%	241	1.2%
Machinery Manufacturing	79.7%	61,407	2.1%	12,572	1.9%	80	0.4%
Motor Vehicle Equipment	80.3%	197,398	6.6%	39,034	6.0%	175	0.8%
Paper Manufacturing	75.7%	40,991	1.4%	10,055	1.5%	80	0.4%
Petroleum and Coal Products	78.6%	78,645	2.6%	16,863	2.6%	32	0.2%
Primary Metals	71.5%	43,753	1.5%	12,514	1.9%	24	0.1%
Other Manufacturing	79.3%	416,526	14.0%	87,763	13.5%	1,614	7.8%
TRANSPORTATION AND PUBLIC UTILITIES	74.0%	355,883	11.9%	93,357	14.4%	830	4.0%
Air Transportation	56.2%	84,188	2.8%	36,960	5.7%	65	0.3%
Other Transportation	78.4%	62,285	2.1%	13,630	2.1%	159	0.8%
Public Utilities	79.9%	209,411	7.0%	42,767	6.6%	606	2.9%
INFORMATION	77.2%	196,255	6.6%	45,587	7.0%	889	4.3%
WHOLESALE TRADE	77.7%	49,042	1.6%	11,793	1.8%	851	4.1%
RETAIL TRADE	75.1%	48,266	1.6%	12,027	1.9%	31	0.1%
FINANCE, INSURANCE AND REAL ESTATE	87.9%	341,404	11.5%	49,967	7.7%	8,725	42.1%
SERVICES	78.3%	534,940	18.0%	118,726	18.3%	2,664	12.9%
Health Care	73.2%	202,961	6.8%	54,459	8.4%	140	0.7%
Other Services	81.4%	331,979	11.1%	64,267	9.9%	2,524	12.2%
NON-PROFIT ORGANIZATIONS	74.4%	25,095	0.8%	6,504	1.0%	80	0.4%
TOTAL	78.9%	\$2,979,124	100.0%	\$649,168	100.0%	\$20,708	100.0%

Sources: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(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. For plan year 2012 these durations were updated. The new values are 14 and 9 for non-annuitants and annuitants, respectively.

Table S-51 (1/2)
Pension Funding Data for PBGC-Insured Plans by Region and State (2015)
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	\$5,836	\$4,776	\$1,060	\$210,645	\$280,850	\$70,206	\$216,480	\$285,626
Connecticut	623	569	53	131,606	177,788	46,182	132,228	178,357
Maine	222	119	103	3,833	5,131	1,298	4,055	5,250
Massachusetts	895	712	182	61,491	80,366	18,875	62,386	81,079
New Hampshire	68	57	11	2,689	3,726	1,036	2,757	3,782
Rhode Island	3,932	3,235	697	9,762	12,192	2,430	13,694	15,428
Vermont	96	83	14	1,263	1,647	384	1,359	1,730
MID-ATLANTIC	76,689	66,381	10,308	650,444	832,172	181,728	727,133	898,552
Delaware	25	14	11	19,545	28,196	8,652	19,570	28,210
District of Columbia	173	153	20	15,326	20,405	5,079	15,499	20,558
Maryland	760	481	279	48,534	67,790	19,256	49,294	68,270
New Jersey	54,546	48,790	5,756	153,947	194,417	40,470	208,492	243,206
New York	9,214	8,356	858	222,946	268,763	45,817	232,160	277,118
Pennsylvania	2,000	1,759	241	104,107	139,075	34,968	106,108	140,835
Virginia	9,835	6,698	3,137	84,557	111,411	26,855	94,391	118,109
West Virginia	138	131	7	1,482	2,115	633	1,620	2,246
SOUTHEAST	15,170	12,298	2,872	284,253	383,126	98,873	299,423	395,423
Alabama	806	688	118	5,625	7,149	1,524	6,431	7,837
Arkansas	56	36	20	3,913	5,035	1,122	3,970	5,071
Florida	4,317	3,632	685	21,092	28,854	7,763	25,409	32,487
Georgia	292	261	30	94,389	136,450	42,061	94,681	136,711
Kentucky	230	186	44	6,827	8,833	2,006	7,057	9,019
Louisiana	123	95	29	20,656	28,092	7,437	20,779	28,187
Mississippi	177	172	5	2,140	2,775	634	2,317	2,947
North Carolina	8,081	6,442	1,639	61,397	73,080	11,683	69,478	79,522
South Carolina	252	187	65	12,921	17,796	4,876	13,172	17,983
Tennessee	836	598	237	55,294	75,062	19,768	56,129	75,660
GREAT LAKES	40,888	38,895	1,994	521,496	666,302	144,806	562,384	705,196
Illinois	28,638	27,613	1,025	128,694	169,203	40,509	157,332	196,816
Indiana	580	504	76	21,732	26,582	4,850	22,311	27,086
Michigan	397	367	30	184,471	234,847	50,375	184,869	235,214
Minnesota	2,907	2,727	180	63,915	77,304	13,389	66,822	80,031
Ohio	6,118	5,606	513	80,265	106,482	26,217	86,384	112,088
Wisconsin	\$2,248	\$2,078	\$170	\$42,419	\$51,884	\$9,465	\$44,667	\$53,962

Sources: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 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 (2/2)
Pension Funding Data for PBGC-Insured Plans by Region and State (2015)
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	\$7,809	\$7,137	\$671	\$53,406	\$72,467	\$19,061	\$61,215	\$79,604
Iowa	417	390	27	12,100	16,235	4,135	12,517	16,625
Kansas	2,064	1,834	230	6,752	10,266	3,515	8,816	12,101
Missouri	1,454	1,208	246	28,669	38,181	9,512	30,122	39,389
Nebraska	3,860	3,694	166	4,048	5,280	1,232	7,908	8,975
North Dakota	13	10	3	1,141	1,551	410	1,154	1,561
South Dakota	0	0	0	697	955	258	697	955
SOUTHWEST	10,036	8,108	1,928	213,893	275,555	61,662	223,929	283,664
Arizona	518	383	135	10,386	13,905	3,519	10,903	14,288
New Mexico	55	50	6	10,331	12,573	2,242	10,386	12,622
Oklahoma	25	18	7	4,956	6,654	1,698	4,981	6,672
Texas	9,438	7,657	1,781	188,220	242,424	54,203	197,658	250,081
ROCKY MOUNTAIN	1,014	954	60	22,780	28,972	6,192	23,794	29,925
Colorado	48	39	9	7,605	10,156	2,551	7,652	10,195
Idaho	18	13	6	2,605	3,509	904	2,623	3,521
Montana	3	2	1	782	1,074	292	785	1,076
Nevada	8	5	3	2,287	3,016	729	2,295	3,021
Utah	934	893	41	9,368	11,038	1,670	10,302	11,931
Wyoming	3	2	1	133	178	45	136	180
PACIFIC	13,543	11,765	1,778	218,032	282,797	64,765	231,576	294,563
Alaska	190	169	22	371	581	210	562	750
California	7,646	6,420	1,226	131,027	169,712	38,685	138,672	176,132
Hawaii	354	319	34	3,657	5,382	1,725	4,010	5,701
Oregon	105	73	33	9,673	13,034	3,361	9,778	13,106
Washington	5,248	4,785	464	73,306	94,089	20,783	78,554	98,873
U.S. TERRITORIES	12	11	1	3,404	4,891	1,487	3,416	4,902
Puerto Rico	12	11	1	3,215	4,648	1,433	3,227	4,659
Virgin Islands	---	---	---	184	235	52	184	235
Other	---	---	---	5	7	2	5	7
FOREIGN COUNTRIES	237	203	34	1,077	1,466	389	1,314	1,669
TOTAL	\$171,234	\$150,526	\$20,708	\$2,179,429	\$2,828,597	\$649,168	\$2,350,663	\$2,979,124

Sources: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 15.02 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 1975-2016		Coverage 2016		Benefits Paid 2016		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
NEW ENGLAND	511	\$1,430,762,988	1,347	1,990,056	39,032	\$241,531,840	\$517
Connecticut	151	240,024,690	495	989,032	8,809	47,667,230	461
Maine	21	130,554,585	50	48,661	3,478	23,148,921	550
Massachusetts	249	861,750,523	602	778,928	17,437	114,344,589	549
New Hampshire	32	65,619,943	65	28,394	5,268	35,120,549	543
Rhode Island	48	118,331,902	85	133,120	2,191	12,008,076	468
Vermont	10	14,481,345	50	11,921	1,849	9,242,475	417
MID-ATLANTIC	1,540	14,912,322,147	6,522	10,004,344	203,120	1,279,552,375	522
Delaware	19	52,045,413	64	132,563	2,112	14,008,135	562
District of Columbia	63	180,641,905	187	798,624	481	3,077,250	528
Maryland	76	168,488,391	448	1,124,007	16,395	133,412,965	657
New Jersey	267	924,017,798	1,135	1,694,602	21,371	121,695,247	514
New York	553	3,650,491,322	2,970	3,543,556	48,955	332,349,480	563
Pennsylvania	439	6,085,714,887	1,196	1,684,995	77,363	470,818,418	498
Virginia	72	3,049,015,783	429	987,788	21,355	108,216,663	416
West Virginia	51	801,906,649	93	38,209	15,088	95,974,217	518
SOUTHEAST	494	5,790,063,283	2,738	3,431,564	218,327	1,230,279,431	466
Alabama	35	217,823,533	168	93,989	20,949	100,175,101	434
Arkansas	23	45,823,816	76	25,596	4,325	17,881,048	349
Florida	120	1,146,231,467	851	348,453	57,177	422,051,060	598
Georgia	83	2,405,437,069	476	1,205,125	30,009	180,581,683	490
Kentucky	33	122,301,544	197	134,249	9,788	43,340,360	382
Louisiana	26	82,662,272	135	153,347	6,057	31,704,842	432
Mississippi	14	78,434,779	84	27,029	7,511	42,688,357	456
North Carolina	62	516,881,492	361	737,732	41,477	197,703,825	397
South Carolina	26	171,448,652	150	102,342	19,592	87,678,871	375
Tennessee	72	1,003,018,659	240	603,702	21,442	106,474,284	409
GREAT LAKES	1,417	22,368,467,128	4,278	6,948,458	223,549	1,698,161,850	614
Illinois	342	9,269,677,290	1,215	2,634,077	42,035	309,038,373	601
Indiana	133	1,549,961,566	331	328,756	31,418	293,599,912	748
Michigan	378	6,181,522,039	728	1,378,919	47,179	397,657,391	674
Minnesota	47	197,358,434	409	1,016,055	8,899	57,884,939	532
Ohio	419	4,787,376,658	1,207	1,171,844	81,423	563,794,181	560
Wisconsin	98	\$382,571,141	388	418,807	12,595	\$76,187,054	\$500

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.

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

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

Region / State	Claims 1975-2016		Coverage 2016		Benefits Paid 2016		
	Plans	Claims	Plans	Participants	Payees	Payments	Mean Monthly Pension
MIDWEST	174	\$1,275,670,191	784	852,434	29,058	\$160,414,113	\$453
Iowa	60	141,958,099	189	132,981	6,018	18,253,759	259
Kansas	15	384,570,400	107	180,813	5,352	45,915,729	671
Missouri	87	736,799,471	325	451,777	15,298	83,915,251	452
Nebraska	10	11,970,279	96	69,085	1,623	7,297,385	383
North Dakota	1	119,183	41	7,213	135	516,454	315
South Dakota	1	252,760	26	10,565	632	4,515,535	597
SOUTHWEST	207	1,612,896,264	1,638	1,737,543	40,285	277,450,315	564
Arizona	32	25,522,155	328	143,204	10,436	85,627,784	663
New Mexico	9	26,006,083	58	26,643	2,042	12,344,667	497
Oklahoma	24	51,908,753	121	65,712	4,132	21,107,466	429
Texas	142	1,509,459,274	1,131	1,501,984	23,675	158,370,398	551
ROCKY MOUNTAIN	60	302,246,291	625	491,426	20,643	195,312,100	763
Colorado	21	207,130,693	279	194,290	10,119	103,885,640	827
Idaho	8	12,748,590	58	55,158	2,091	14,820,460	580
Montana	5	3,822,039	40	5,756	663	6,222,277	790
Nevada	13	6,506,467	105	106,866	4,794	45,818,348	763
Utah	12	71,947,615	115	127,566	2,604	21,138,391	659
Wyoming	1	90,887	28	1,790	372	3,426,984	738
PACIFIC	346	1,280,826,835	4,346	3,127,229	61,464	538,051,026	711
Alaska	4	50,534,607	27	16,377	601	3,941,364	565
California	262	716,101,570	3,653	2,001,277	41,352	350,403,686	692
Hawaii	25	151,721,129	158	77,538	4,524	44,656,265	788
Oregon	24	50,363,246	215	204,306	4,355	32,845,485	608
Washington	31	312,106,283	293	827,731	10,632	106,204,226	803
PUERTO RICO	15	24,419,933	17	30,032	3,340	10,065,171	263
U.S. TERRITORIES	---	---	6	890	163	628,599	366
FOREIGN COUNTRIES	5	5,074,905	32	16,024	2,531	27,513,915	511
TOTAL	4,769	\$49,002,749,966	22,333	28,630,000	841,512	\$5,658,960,735	\$535

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.

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

Table S-53
PBGC Maximum Guaranteed Benefits (1990-2018)
Single-Employer Program

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

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 (1980-2017)
Multiemployer Program**

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

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 (1980-2017)
Multiemployer Program**

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

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, 1980-2016)
Multiemployer Program**

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

**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.*

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

**Table M-4
PBGC Financial Assistance to Insolvent Plans (Post-MPPAA Plans, 1981-2016)
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	---
2016	65	112,531	---	---	65	112,531	---
Total ⁽⁷⁾	93	\$1,189,031	39	\$142,710	82	\$1,046,320	\$3,340.5 ⁽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.

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

Table M-5
PBGC-Insured Plan Participants (1980-2017)
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
2017	10,565	8,256	768	708	580	179	55	19

Source: PBGC Premium Filings

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

**Table M-6
PBGC-Insured Plans (1980-2017)
Multiemployer Program**

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

Source: PBGC Premium Filings

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

**Table M-7
PBGC-Insured Plan Participants by Participant Status (1980-2015)
Multiemployer Program**

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

Source: Form 5500 filings

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

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

*2010 figures are estimates from PBGC internal calculations.

**Table M-8
PBGC-Insured Plans and Participants by Industry (2015)
Multiemployer Program**

Industry	Insured Plans		Insured Participants	
AGRICULTURE	8	0.6%	21,581	0.2%
MINING	4	0.3%	107,494	1.0%
CONSTRUCTION	752	53.9%	3,718,845	36.1%
Building Construction	78	5.6%	489,725	4.8%
Heavy Construction	63	4.5%	554,692	5.4%
Plumbing, Heating, and Air Conditioning	145	10.4%	278,871	2.7%
Electrical Work	121	8.7%	831,826	8.1%
Building Finishing Contractors	66	4.7%	403,758	3.9%
Foundation, Structure, and Exterior Work	158	11.3%	663,670	6.4%
Other Construction	121	8.7%	496,303	4.8%
MANUFACTURING	136	9.7%	1,059,549	10.3%
Food and Tobacco Products	26	1.9%	201,249	2.0%
Apparel and Textile Products	5	0.4%	31,746	0.3%
Paper and Allied Products	5	0.4%	82,670	0.8%
Printing and Publishing	24	1.7%	149,978	1.5%
Machinery and Computer Equipment	4	0.3%	13,248	0.1%
Electrical and Electronic Equipment	5	0.4%	272,844	2.6%
Furniture and Fixtures	8	0.6%	7,613	0.1%
Other Manufacturing	59	4.2%	300,201	2.9%
TRANSPORTATION AND PUBLIC UTILITIES	144	10.3%	1,554,179	15.1%
Trucking	75	5.4%	1,398,079	13.6%
Water Transportation	44	3.2%	101,507	1.0%
Other Transportation and Public Utilities	25	1.8%	54,593	0.5%
INFORMATION	32	2.3%	235,928	2.3%
WHOLESALE TRADE	24	1.7%	51,760	0.5%
RETAIL TRADE	83	5.9%	1,507,083	14.6%
SERVICES	213	15.3%	2,043,581	19.8%
Administrative/Support	44	3.2%	353,665	3.4%
Health Care/Social Assistance	17	1.2%	524,947	5.1%
Accommodation/Food Service	27	1.9%	696,970	6.8%
Other Services	125	9.0%	467,999	4.5%
TOTAL	1396	100.0%	10,300,000	100.0%

Source: Form 5500 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 (1980-2015)
Multiemployer Program

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Funding Ratio	Underfunding (in millions)	Overfunding (in millions)	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%
2015	\$478,227	\$1,116,058	43%	\$638,122	\$290	2.46%

Source: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(I)(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 (1980-2015)
Multiemployer Program**

Beginning of Year	Assets (in millions)	Liabilities* (in millions)	Underfunding (in millions)	Funding Ratio	PBGC Rate
1980	\$24,819	\$42,706	\$17,887	58%	8.50%
1985	22,813	29,246	6,432	78%	9.75%
1990	56,512	68,086	11,574	83%	7.25%
1991	62,563	75,631	13,068	83%	7.25%
1992	93,790	111,625	17,835	84%	6.25%
1993	95,331	115,195	19,864	83%	6.40%
1994	128,718	157,911	29,193	82%	5.65%
1995	118,707	141,434	22,726	84%	7.15%
1996	168,347	208,366	40,019	81%	5.30%
1997	152,633	185,182	32,549	82%	5.80%
1998	180,084	219,582	39,497	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%
2015	\$477,342	\$1,115,464	\$638,122	43%	2.46%

Source: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 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 (1980-2015)
Multiemployer Program

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

Source: Form 5500 filings

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

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 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 (1990-2015)
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%
2015	\$638,122	\$173,391	27.2%	\$174,980	27.4%	\$289,751	45.4%

Source: Form 5500 filings

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

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

Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 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 (2015)
Multiemployer Program**

Funding Ratio	Plans		Participants		Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
Receiving Financial Assistance	55	3.94%	69,501	0.67%	\$254	**	\$249	**	---	---
Terminated Booked Plans***	67	4.80%	81,825	0.79%	3,752	0.34%	2,051	0.32%	---	---
Less Than 40%	348	24.93%	4,047,461	39.30%	464,031	41.57%	308,697	48.36%	---	---
40% - 49%	436	31.23%	3,417,034	33.18%	374,603	33.56%	206,558	32.36%	---	---
50% - 59%	307	21.99%	2,270,889	22.05%	235,805	21.12%	109,432	17.14%	---	---
60% - 69%	101	7.23%	236,543	2.30%	23,760	2.13%	8,675	1.36%	---	---
70% - 79%	46	3.30%	102,647	1.00%	8,629	0.77%	2,224	0.35%	---	---
80% - 89%	13	0.93%	31,904	0.31%	2,954	0.26%	373	0.06%	---	---
90% - 99%	10	0.72%	29,735	0.29%	1,930	0.17%	112	**	---	---
100% - 109%	3	0.21%	1,958	**	101	**	---	---	\$2	0.74%
110% - 119%	2	0.14%	1,960	**	51	**	---	---	8	2.63%
120% - 129%	2	0.14%	4,725	0.05%	111	**	---	---	24	8.41%
130% - 139%	---	---	---	---	---	---	---	---	---	---
140% - 149%	1	0.07%	2,749	**	257	**	---	---	124	42.55%
150% or More	5	0.36%	1,069	**	74	**	---	---	133	45.66%
Subtotal	1,341	96.06%	10,230,499	99.33%	\$1,116,058	99.98%	\$638,122	99.96%	\$290	100.00%
Total	1,396	100.00%	10,300,000	100.00%	\$1,116,313	100.00%	\$638,370	100.00%	\$290	100.00%
Underfunded	1,328	95.13%	10,218,038	99.20%	\$1,115,464	99.92%	\$638,122	100.00%	---	---
Overfunded	13	0.93%	12,461	0.12%	\$594	0.05%	---	---	\$290	100.00%

Source: Form 5500 filings

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 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 (2015)
Multiemployer Program**

Industry	Average Funding Ratio	Total Liabilities* (in millions)		Underfunding (in millions)		Overfunding (in millions)	
AGRICULTURE	54%	\$1,003	0.1%	\$461	0.1%	---	---
MINING	39%	11,020	1.0%	6,703	1.1%	---	---
CONSTRUCTION	44%	543,423	48.7%	306,878	48.1%	\$163	56.0%
Building Construction	41%	81,112	7.3%	47,929	7.5%	23	8.0%
Heavy Construction	45%	90,412	8.1%	49,541	7.8%	5	1.9%
Plumbing, Heating, and Air Conditioning	48%	53,651	4.8%	28,004	4.4%	---	---
Electrical Work	45%	84,364	7.6%	46,126	7.2%	---	---
Building Finishing Contractors	41%	57,513	5.2%	34,199	5.4%	---	---
Foundation, Structure, and Exterior Work	43%	90,523	8.1%	52,079	8.2%	124	---
Other Construction	43%	85,849	7.7%	48,999	7.7%	10	3.6%
MANUFACTURING	45%	74,078	6.6%	41,057	6.4%	90	31.1%
Food and Tobacco Products	40%	17,959	1.6%	10,687	1.7%	1	0.3%
Apparel and Textile Products	41%	37	**	22	**	---	---
Paper and Allied Products	38%	5,285	0.5%	3,288	0.5%	---	---
Printing and Publishing	37%	8,752	0.8%	5,509	0.9%	---	---
Furniture and Fixtures	28%	461	**	331	0.1%	---	---
Machinery and Computer Equipment	51%	21,895	2.0%	10,806	1.7%	89	30.7%
Electrical and Electronic Equipment	59%	400	**	163	**	---	---
Other Manufacturing	47%	19,289	1.7%	10,251	1.6%	0	0.1%
TRANSPORTATION AND PUBLIC UTILITIES	41%	223,244	20.0%	132,017	20.7%	34	11.8%
Trucking	39%	195,964	17.6%	118,782	18.6%	---	---
Water Transportation	53%	21,336	1.9%	10,028	1.6%	34	11.8%
Other Transportation and Public Utilities	46%	5,944	0.5%	3,207	0.5%	---	---
INFORMATION	37%	28,088	2.5%	17,730	2.8%	---	---
WHOLESALE TRADE	52%	2,962	0.3%	1,422	0.2%	1	0.3%
RETAIL TRADE	42%	81,589	7.3%	47,505	7.4%	---	---
SERVICES	44%	150,650	13.5%	84,350	13.2%	2	0.8%
Administrative/Support	40%	26,362	2.4%	15,766	2.5%	---	---
Health Care/Social Assistance	45%	38,121	3.4%	20,799	3.3%	---	---
Accommodative/Food Service	44%	24,597	2.2%	13,822	2.2%	2	0.8%
Other Services	45%	61,570	5.5%	33,962	5.3%	---	---
TOTAL	43%	\$1,116,058	100.0%	\$638,122	100.0%	\$290	100.0%

Source: Form 5500 filings

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

* Vested liabilities have been adjusted to the PBGC rate that, along with an assumed mortality table, reflects the cost to purchase an annuity at the beginning of the relevant year. The assumed mortality table was UP-84 for 1980-1992, GAM-83 for 1993-2006, and the mortality table found in section 1.412(l)(7)-1 of the Income Tax Regulations for 2007 and later. Before plan year 2012, durations of 13.27 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 (1980-2018)
Multiemployer Program**

Date of Plan Insolvency	Monthly Benefit Formula	Maximum Monthly Guarantee (30 Years of Service)*	Maximum Annual Guarantee (30 Years of Service)*
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 - 2018)
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
2018	\$28.00

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

Table M-17
Participants by Plan Zone Status and Participant Status* (2009 - 2015)
Multiemployer Program

Zone Status	Participant Type	Participants						
		2009	2010	2011	2012	2013	2014	2015
Deep Red	Active	N/A	N/A	N/A	N/A	N/A	N/A	15.3%
	In Pay	N/A	N/A	N/A	N/A	N/A	N/A	52.1%
	Separated Vested	N/A	N/A	N/A	N/A	N/A	N/A	32.6%
	Total Participants	N/A	N/A	N/A	N/A	N/A	N/A	1,166,069
	Percent of System							11.4%
Red	Active	38.9%	34.1%	31.3%	29.7%	29.2%	27.1%	32.6%
	In Pay	32.6%	34.7%	36.3%	38.2%	38.6%	40.5%	34.6%
	Separated Vested	28.5%	31.2%	32.5%	32.1%	32.1%	32.4%	32.8%
	Total Participants	3,901,690	3,929,121	3,474,487	3,447,230	3,457,418	3,429,901	2,176,558
	Percent of System	37.9%	38.6%	34.3%	34.3%	34.4%	33.9%	21.2%
Orange	Active	36.1%	28.2%	20.2%	20.4%	13.7%	37.0%	40.3%
	In Pay	38.3%	53.4%	63.7%	65.3%	76.5%	41.6%	43.5%
	Separated Vested	25.6%	18.4%	16.0%	14.2%	9.8%	21.3%	16.2%
	Total Participants	1,470,071	334,892	197,775	192,656	138,096	5,386	24,773
	Percent of System	14.3%	3.3%	2.0%	1.9%	1.4%	0.1%	0.2%
Yellow	Active	47.7%	46.4%	41.9%	41.5%	39.2%	40.0%	38.3%
	In Pay	30.9%	32.5%	35.4%	36.0%	37.8%	36.3%	37.0%
	Separated Vested	21.4%	21.1%	22.7%	22.4%	23.0%	23.8%	24.7%
	Total Participants	1,791,794	1,342,922	1,180,115	1,300,876	1,323,418	1,158,555	1,144,312
	Percent of System	17.4%	13.2%	11.6%	12.9%	13.1%	11.4%	11.1%
Green	Active	45.9%	43.2%	42.2%	42.1%	42.1%	41.5%	42.4%
	In Pay	29.8%	31.0%	31.5%	30.7%	31.0%	31.7%	31.5%
	Separated Vested	24.2%	25.7%	26.3%	27.2%	26.8%	26.8%	26.1%
	Total Participants	3,124,750	4,562,750	5,282,203	5,113,673	5,146,005	5,535,027	5,759,236
	Percent of System	30.4%	44.9%	52.1%	50.9%	51.1%	54.6%	56.1%

Source: Form 5500 filings

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

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

Table M-18
Plans by Zone Status (2009 - 2015)*
Multiemployer Program

ZONE STATUS	Plan Risk Status by Year (plan count)						
	2009	2010	2011	2012	2013	2014	2015
Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	83
Red	439	380	321	325	330	318	213
Orange	128	48	18	20	13	5	5
Yellow	296	227	211	226	196	159	146
Green	486	673	768	721	702	776	787
Total Classifiable Ongoing Plans*	1,349	1,328	1,318	1,292	1,241	1,258	1,234
ZONE STATUS	Plan Risk Status by Year (% of Plans)						
	2009	2010	2011	2012	2013	2014	2015
Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	6.7%
Red	32.5%	28.6%	24.4%	25.2%	26.6%	25.3%	17.3%
Orange	9.5%	3.6%	1.4%	1.5%	1.0%	0.4%	0.4%
Yellow	21.9%	17.1%	16.0%	17.5%	15.8%	12.6%	11.8%
Green	36.0%	50.7%	58.3%	55.8%	56.6%	61.7%	63.8%
Total System	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

Source: Form 5500 filings

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

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

Table M-19
Administrative Expenses per Participant, by Industry and Zone
(2009 - 2015)*
Multiemployer Program

SECTOR	ZONE STATUS	Administrative Expense per Participant (median, unadjusted dollars)						
		2009	2010	2011	2012	2013	2014	2015
CONSTRUCTION	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	\$351
	Red	\$265	\$266	\$268	\$258	\$270	\$276	\$279
	Orange	\$238	\$219	\$194	\$352	\$310	\$329	\$232
	Yellow	\$228	\$252	\$245	\$244	\$247	\$253	\$268
	Green	\$228	\$228	\$230	\$229	\$243	\$248	\$261
All Construction		\$233	\$238	\$240	\$240	\$250	\$253	\$265
MANUFACTURING	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	\$167
	Red	\$175	\$183	\$169	\$182	\$180	\$180	\$208
	Orange	\$145	\$160	\$245	\$180	\$194	\$253	N/A
	Yellow	\$185	\$256	\$192	\$201	\$182	\$157	\$195
	Green	\$172	\$179	\$191	\$181	\$186	\$199	\$214
All Manufacturing		\$177	\$181	\$184	\$181	\$186	\$187	\$197
TRANSPORTATION	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	\$333
	Red	\$206	\$213	\$230	\$220	\$206	\$208	\$213
	Orange	\$295	\$342	\$741	\$207	\$311	N/A	N/A
	Yellow	\$299	\$241	\$263	\$258	\$289	\$256	\$240
	Green	\$295	\$262	\$276	\$287	\$310	\$296	\$324
All Transportation		\$237	\$246	\$256	\$260	\$265	\$267	\$287
ALL OTHER INDUSTRIES	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	\$329
	Red	\$151	\$154	\$145	\$153	\$165	\$166	\$167
	Orange	\$176	\$152	\$253	\$230	\$274	\$415	\$423
	Yellow	\$227	\$214	\$218	\$252	\$171	\$187	\$214
	Green	\$187	\$192	\$196	\$189	\$195	\$201	\$211
All 'All Other Industries'		\$176	\$175	\$180	\$186	\$179	\$192	\$205
System-wide		\$214	\$220	\$222	\$222	\$228	\$235	\$249

Source: Form 5500 filings

*Classifiable Ongoing Plans exclude plans which have terminated or are currently receiving Financial Assistance and plans that did not provide zone status.
Descriptive statistics ignore zero benefit plans but include plans with relatively small benefit payments.

Table M-20
Administrative Expenses as a Percent of Benefits Paid,
by Industry and Zone (2009 - 2015)*
Multiemployer Program

SECTOR	ZONE STATUS	Administrative Expenses to Benefits Paid (median)						
		2009	2010	2011	2012	2013	2014	2015
CONSTRUCTION	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	5.5%
	Red	5.3%	5.2%	5.7%	5.1%	4.7%	4.6%	4.7%
	Orange	6.2%	4.3%	2.5%	5.5%	5.6%	7.2%	3.6%
	Yellow	5.3%	4.8%	4.5%	4.1%	4.0%	4.3%	4.4%
	Green	7.1%	6.2%	5.6%	5.4%	5.4%	5.4%	5.5%
All Construction		6.1%	5.6%	5.4%	5.1%	5.1%	5.1%	5.2%
MANUFACTURING	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	7.3%
	Red	9.5%	8.6%	7.4%	7.1%	7.5%	6.8%	10.1%
	Orange	6.7%	11.4%	9.9%	3.0%	4.0%	13.9%	N/A
	Yellow	7.0%	10.3%	8.8%	9.7%	11.1%	4.7%	4.6%
	Green	9.8%	8.7%	9.0%	8.4%	7.9%	7.9%	8.4%
All Manufacturing		9.7%	9.9%	9.6%	8.6%	8.6%	8.3%	8.7%
TRANSPORTATION	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	5.5%
	Red	3.9%	4.3%	3.9%	3.9%	3.9%	3.6%	3.6%
	Orange	4.3%	4.6%	11.5%	10.1%	5.6%	N/A	N/A
	Yellow	5.7%	4.5%	5.8%	3.6%	3.9%	2.8%	3.2%
	Green	7.6%	8.8%	7.4%	6.8%	7.7%	7.3%	6.5%
All Transportation		5.4%	5.9%	5.6%	5.4%	5.3%	5.4%	5.7%
ALL OTHER INDUSTRIES	Deep Red	N/A	N/A	N/A	N/A	N/A	N/A	8.2%
	Red	7.6%	8.6%	8.3%	7.7%	8.8%	8.9%	9.7%
	Orange	10.3%	6.8%	8.6%	6.6%	4.0%	4.7%	4.6%
	Yellow	7.4%	6.9%	6.4%	6.1%	7.3%	6.0%	5.4%
	Green	8.2%	9.2%	8.4%	7.6%	7.7%	7.4%	8.6%
All 'All Other Industries'		8.6%	9.1%	8.6%	8.0%	8.3%	8.4%	8.6%
System-wide		6.9%	6.5%	6.3%	6.0%	6.0%	5.9%	6.2%

Source: Form 5500 filings

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

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