

Pension Insurance Data Book 1999



PENSION BENEFIT GUARANTY CORPORATION

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Overview

The Pension Benefit Guaranty Corporation (PBGC) was established by the Employee Retirement Income Security Act of 1974 to ensure that participants in defined benefit plans receive their pensions even if their plans terminate without sufficient assets to pay promised benefits. Separate insurance programs protect participants in single-employer and multiemployer plans.

PBGC has published the *Pension Insurance Data Book* annually since 1996 to present detailed statistics on PBGC program operations and benefit protection.

In addition to tabular presentations of current and historical data on PBGC's singleemployer and multiemployer pension insurance programs, this edition features an analysis of the PBGC guarantee limits and the benefits received by participants in singleemployer plans trusteed by PBGC.

PBGC's Guarantee Limits An Analysis of Benefits Received by Participants in Selected PBGC-Trusteed Plans

Executive Summary

The Pension Benefit Guaranty Corporation (PBGC) pays participants in the singleemployer plans it administers (trustees) the benefits they would have received from their plan, subject to certain constraints set by law and regulation. This chapter reports on our analysis of the impact of these limitations on participant benefits using a nonrandom sample of some of the largest plans PBGC has trusteed since December 1987.

Our preliminary findings show that the limitations:

- affected the benefits of relatively few participants (less than 6 percent of all participants in our sample);
- reduced benefits for at least one participant in more than 75 percent of the plans in our sample; and,
- on average, reduced the benefits of affected participants by 16 percent.

Of the constraints, the maximum insurance limitation had the greatest impact in terms of both the number of participants affected and the total amount benefits were reduced. This limitation restricts the monthly benefits PBGC will pay to participants, unless either the plan has assets sufficient to fund plan benefits above this cap or PBGC receives sufficient recoveries from employers to cover unfunded plan liabilities. This limitation affected almost 4,100 of the more than 90,000 participants in our sample and, on average, reduced their benefits by 17 percent. The other limitations affected fewer than 500 participants each.

We used a nonrandom process to select the companies whose pension plans we included in our sample. The plans of these companies were responsible for 45 percent of the claims against PBGC and 29 percent of the new participants from 1988 to 1996. However, they are not fully representative of the industries whose plans PBGC trusteed over this period. While we cannot generalize our results to either the plans PBGC has already trusteed or those plans it currently insures, the results confirm our long-held belief that these statutory limitations affect a relatively small proportion of the participants in the plans PBGC trustees. Although relatively few participants are affected by them, the limitations can significantly reduce benefits for a few of the participants who are affected.

I. Introduction

When PBGC trustees a plan, it determines the value of the plan's assets and liabilities as of the date of plan termination. It allocates the plan's assets in sequence across six benefit priority categories until the assets run out. PBGC then uses its own resources to fund any remaining unfunded guaranteed benefits.¹ After a plan terminates, PBGC often recovers, or is deemed to recover,² additional resources to cover a portion of the plan's unfunded liabilities from the plan's corporate sponsor.³ PBGC shares these asset recoveries with the plan's participants, using the participants' portion to fund benefits beyond the PBGC guarantee limits.⁴

The first two benefit priority categories include voluntary and mandatory employee contributions to the plan. Few private defined-benefit plans are contributory, and asset allocations usually begin in the third priority category. This category includes the benefits of participants who either were receiving benefits three years prior to the plan's termination date or were eligible to receive benefits at that time. In many trusteed plans, all Category 3 benefits fall within PBGC's guarantees. In others, a portion of the Category 3 benefits will exceed the guarantees. If there are sufficient plan assets, these additional Category 3 benefits will be funded before any subsequent categories of benefits are funded. If the plan's assets are insufficient to cover all these additional benefits, these additional Category 3 benefits will have a first priority claim for the plan participants' share of any recoveries from the plan's sponsor.

Category 4 includes all PBGC-guaranteed benefits that are not included in Category 3. Category 5 includes nonguaranteed vested benefits, while Category 6 contains nonvested and contingent benefits. PBGC pays benefits in Categories 5 and then 6 only when the plan has sufficient assets to pay for these benefits or the participants' share of PBGC recoveries is sufficient to pay benefits beyond Category 3. Participants in PBGCtrusteed plans often receive very little or none of their Category 5 and 6 benefits due to the poor financial conditions of both their plan and their plan's sponsor.

¹ Guaranteed benefits include all of a participant's nonforfeitable (vested) benefits, subject to the limitations that are the subject of this chapter.

² Except in unusual situations (i.e., where the trusteed plan's unfunded nonguaranteed benefits are \$20 million or more), PBGC is "deemed" to recover a set percentage of the unfunded liabilities from the plan's sponsor. This percentage, known as the Small Plan Average Recovery Ratio (SPARR), is usually the average recovery ratio from all terminated plans' corporate sponsors during the preceding 5 years.

³ We use the term "sponsor" in a broad sense. Responsibility for the plan's unfunded liabilities lies with the contributing sponsor and, if applicable, other members of its controlled group.

⁴ The participants' share of the asset recovery or deemed recovery is the ratio of unfunded nonguaranteed plan benefits to total unfunded plan benefits.

Three statutory limitations constrain the level of PBGC's guaranteed benefits. These three limitations are the "Maximum Insurance" limitation, the "Accrued-at-Normal" limitation, and the "Phase-In" limitation.⁵ The first limitation places a dollar limit on the size of the monthly benefit PBGC will guarantee a participant. The second ensures that the monthly benefit PBGC pays a participant will be no greater than the monthly straight life annuity benefit the participant would have received had he or she commenced the annuity at the plan's normal retirement age. The third limits the amount of recent benefit enhancements PBGC will pay to participants.

The Issues

Until now, PBGC has not used trusteed plan data to estimate the effects of these three limitation provisions. It generally assumed that these limitations reduced the benefits of 10 to 15 percent of the participants in its trusteed plans. To better measure the impact of these three limitations on PBGC's trusteed participants, we selected a nonrandom sample of trusteed plans to determine:

- what percentage of plans had participants who lost some of their plan benefits because of these limitations;
- what percentage of participants in these plans had their benefits reduced by each of the three limitations;
- what percentage of vested plan benefits did affected participants actually receive; and
- what was the total amount, in present value terms, of the benefits PBGC did not pay its participants because of these limitations.

These limitations can affect different types of participants—active workers, retirees, and separated vested workers (workers who earned a nonforfeitable right to a pension benefit but left the plan sponsor's employ without commencing a pension benefit)—in different ways. For this reason, we also looked at how the limitations affected each type of participant.

Methodology

To determine the answers to the four questions listed above, we calculated, in present value terms, the reduction in benefit payments caused by each limitation. PBGC's internal valuation records describe which guarantee limitations apply to each participant's

⁵ In application, the accrued-at-normal limitation is applied first, then the maximum insurance limitation, and finally the phase-in limitation. Our ordering follows the size of the limitations' impact, from greatest to smallest.

benefit. We calculated the estimated present value of the vested plan benefits the participant would have received over his or her lifetime without any reductions and then estimated the present value of the benefits after we applied each individual limitation.⁶ From the difference in these calculations, we determined the number and percentage of participants who lost benefits due to each limitation, the average percentage of benefits lost, and the number and percentage of plans that had at least one participant whose benefits were reduced.

We selected a nonrandom sample of ten large companies whose pension plans terminated after the passage of the Pension Protection Act of 1987 (PPA).⁷ We chose the sponsors in the study based on whether PBGC's actuarial valuation was complete and on the total amount of their plans' unfunded liabilities. Some large companies whose plans had high levels of underfunding were not included in our sample because PBGC had not completed the actuarial valuation for their plans when we selected our sample. Our sample included 22 pension plans with 90,448 participants—26,607 retirees, 34,806 separated vested workers, and 29,035 active vested workers. These 22 plans were responsible for 45 percent of the claims against PBGC from 1988 through 1996 and contained 29 percent of the participants in PBGC-trusteed plans that terminated over this period.

The results of our study support our long-held belief that these three limitations affect relatively few participants in the plans PBGC trustees. However, our sample is nonrandom. It is limited to plans of large companies. The benefits of participants in the small plans PBGC trustees are less likely to be affected by the benefit limitations we are studying. Also, the distribution of plans by industry in our sample is not typical of the distribution of plans PBGC either currently insures or has trusteed since PPA was enacted. While our results apply only to this sample of plans and not to either the universe of plans PBGC has already trusteed or the universe of ongoing plans it may trustee in the future, they still allow us to draw preliminary conclusions about the impacts of these limitations.⁸

The current sample overrepresents airline plans and underrepresents plans in the manufacturing sector. As a result (and as discussed below), we believe the current sample:

⁶ The benefits calculated and reported include both PBGC-guaranteed benefits and any nonguaranteed benefits that were funded by plan assets or recoveries.

⁷ We limited our study to post-PPA terminations because of the fundamental changes in the termination rules PPA made. Among other things, PPA modified the conditions under which a plan could be terminated, the extent of an employer's responsibility for unfunded plan liabilities, and the allocation of any post-termination recoveries.

⁸ This is an ongoing study. In phase two we will expand the sample to include PBGC-trusteed plans of additional large companies in economic sectors underrepresented in our current sample. While the expanded sample will continue to be nonrandom, it will be more representative of the large post-PPA plans we have trusteed and should provide a more accurate measure of the impact of these limitations.

- establishes an upper bound of the impact of the maximum insurance limitation, and
- establishes a lower bound on the impact of the accrued-at-normal and phase-in limitations.

Because of the emphasis on airline plans in our sample, we believe a greater proportion of participants in our sample were affected by the maximum insurance limitation than would occur in a randomly drawn sample.⁹ About five in six of the participants in our sample worked in the air transportation industry. Participants in this industry account for 25 percent of the participants in the plans PBGC has trusteed since PPA was enacted in 1987 but only 2 percent of those in the ongoing plans it insures. Some airline plans, such as those for pilots, provide large benefits. As a result, the maximum insurance limitation is likely to affect the benefits of participants in these plans.

On the other hand, some plans in the manufacturing sector, especially those in the steel and automobile industries, often provide large supplemental benefits to participants who retire before becoming eligible for Social Security benefits. Therefore, we believe a random sample of plans would find a greater proportion of participant benefits subject to the accrued-at-normal limitation than we found in this study. Participants from plans in the manufacturing sector account for about half the participants in both the plans PBGC insures and those it trusteed post-PPA but only about 15 percent of the participants in our sample. Participants from plans sponsored by companies in all other non-air transportation industries are also underrepresented in our sample.

Similarly, we suspect a random sample of plans in our post-PPA trusteed universe would show more plans and more participants affected by the phase-in limitation than this study suggests. PBGC-trusteed plans whose benefits were subject to collective bargaining agreements are underrepresented in our sample. Benefits in collectively bargained plans usually are determined by multiplying years of service by a fixed dollar amount. This fixed dollar amount increases by amounts specified in the collective bargaining agreement.¹⁰ Often, a portion of the cumulative increase is made effective each year over the life of the agreement. Thus, we suspect that many more PBGC-trusteed collectively bargained plans had recent benefit enhancements than did the plans in our sample.

⁹ The average present value of future benefits for participants in our sample is about two-thirds larger than the average for the participants in all post-PPA trusteed plans.

¹⁰ In defined benefit plans that pay a benefit based on some measure of compensation times years of service, normal salary increases serve a function similar to the annual increase in the fixed dollar amount in collectively bargained plans, but salary increases are not subject to the phase-in limitation.

II. Impact of the Maximum Insurance Limitation

The maximum insurance limitation restricts the level of benefits PBGC will pay to participants when plan assets and recoveries from plan sponsors are insufficient to cover promised benefits in full. The participants affected by the maximum insurance limitation tend to be those with high salaries, long tenure, or both, those whose plans provide relatively high benefits for a given tenure period and salary history, and those whose plans provided unreduced retirement benefits at a relatively young age.¹¹

The maximum benefit that PBGC will guarantee depends on the calendar year in which the underfunded plan terminates. The maximum benefit guarantee increases yearly.¹² For a plan terminating in 2000, the maximum benefit guarantee is \$3,221.59 per month, or \$38,659 per year, for a participant who commences benefits at age 65. This \$3,221.59 per month is the maximum benefit payable by PBGC whether the participant was aged 65 in 2000 when the plan terminated or first begins drawing benefits at age 65 in 2010. The guarantee is reduced for those who start receiving their pension benefits before attaining age 65.

Table 1 shows the impact of the maximum insurance limitation. This limitation reduced the benefits of 4,096 participants in eight of the ten companies and 15 of the 20 plans sponsored by these eight companies. This is the greatest number of participants in our study affected by any of the three limitations. These 4,096 participants represent 9 percent of the 45,288 participants in these 15 plans, but only 4.5 percent of the 90,448 participants in all 22 plans in our sample. This limitation also reduced the present value of benefits for all affected participants by a total of \$130.9 million, far more than the \$5.3 million benefit reduction caused by the other two limitations combined. Thus, the maximum insurance limitation accounted for more than 95 percent of the total reduction in expected plan benefits caused by the three benefit limitations.

Six in seven of these affected participants were in one of two plans for airline pilots that PBGC has taken over. More than half the remaining affected participants were in another air transportation plan that covered flight engineers. The maximum insurance limitation reduced the benefits of almost 60 percent of the participants in these three plans. This large number of affected participants is not too surprising given the relatively high salaries of pilots and flight engineers, the high average benefits they receive, and their ability to take normal retirement benefits at age 60 or earlier (recall that the maximum insurance guarantee is reduced if benefits are first received before age 65). Once we

¹¹ An example of this latter type of plan would be a "30 and out" plan that allowed a participant to retire at any age with unreduced benefits once he had completed 30 years of service with the plan's sponsor.

¹² The maximum guaranteed amount is adjusted annually based on changes in the Social Security contribution and benefit base.

subtracted these three air transportation plans and their participants from the totals, we found that this limitation reduced the benefits of less than 1 percent of the 38,844 participants in the remaining 12 plans.

By participant category, the maximum insurance limitation reduced benefits for about 14 percent of retirees, 3 percent of separated vested participants, and 11 percent of active vested participants in these 15 plans. While affected participants in each participant category lost about 17 percent of the present value of their plan benefits (\$32,000 per affected participant, on average), the retirees experienced a much greater average loss than did either the separated or active participants (about \$40,000 versus \$21,000 and \$26,000 respectively). Affected retirees had larger benefit cutbacks because they had higher accrued benefits than those in the other two participant groups. Thus, more of them had earned benefits that were above the maximum benefit guarantee threshold.

The percentage of benefits lost was much greater for some affected participants than for others. A few participants who were entitled to very large benefits from their poorly funded pension plans lost more than half of the present value of their expected plan benefits. However, relatively few affected participants suffered a sizeable reduction in their expected pension benefits because of this limitation. Only one in eight lost as much as 25 percent of their expected benefit, and more than half received at least 85 percent of their vested plan benefits.

| Table 1: | Impact on Ben | of the Ma efits | aximum I | nsurance | Limitati | on |
|-------------------------|---|---|--|---|--|---|
| Participant Category | Number of Participants Affected by the Maximum Insurance Limitation | Present Value of Benefits Before Applying the Maximum Insurance Limitation (Dollars in millions) | Present Value of Benefits After Applying the Maximum Insurance Limitation (Dollars in millions) | Percent of Pre-limita- tion Benefit Received | Present Value of Total Benefits Lost Due to the Maximum Insurance Limitation (Dollars in millions) | Average Loss of Present Value per Affected Participant |
| Retired | 1,911 | \$462.8 | \$385.7 | 83% | \$77.1 | \$40,300 |
| Separated Vested | 529 | \$65.9 | \$54.6 | 83% | \$11.3 | \$21,400 |
| Active Vested | 1,656 | \$261.9 | \$219.4 | 84% | \$42.5 | \$25,700 |
| Total | 4,096 | \$790.6 | \$659.7 | 83% | \$130.9 | \$32,000 |
| Source: PBGC | | | | | | |

III. Impact of the Accrued-at-Normal Limitation

The "accrued-at-normal" limitation constrains the benefits PBGC will pay to a monthly amount that is no larger than the monthly benefit provided by a straight life annuity available at the plan's normal retirement age. The portion of any combined early retirement benefit and supplemental benefit the participant receives that exceeds the normal retirement age straight life annuity benefit is eliminated by this limitation. For example, if, under the terms of the plan, a participant is entitled to a single life annuity benefit at age 65 of \$1,000 per month but is entitled to an early retirement benefit of \$750 per month and a supplemental benefit of \$400 per month between ages 60 and 65, the accrued-at-normal limitation will cut the supplemental benefit by \$150. In this case, the participant would receive \$1,000 per month from age 60 to 65, instead of \$1,150, and would receive \$750 per month at age 65, the same amount he would have received at age 65 if the plan had not terminated.

Table 2 shows the impact of the accrued-at-normal limitation. This limitation reduced the benefits of 488 participants, the second highest number of the three benefit limitations. The limitation also reduced the total present value of benefits these affected participants received by \$4.3 million, or 17 percent of their pre-reduction benefit. This limitation affected participants in only 4 of the 10 companies in our sample. However, 9 of the 12 plans sponsored by these 4 companies contained affected participants. About 7 percent of the 7,016 participants in these 9 plans received reduced benefits because of the accrued-at-normal limitation. More than 6 in 7 of these affected participants were in just 2 plans. When we subtract these two plans and their participants from the totals for the nine plans, just over 1 percent of the participants in the remaining 7 plans received lower benefits because of this limitation. Thus, the impact of this limitation on the benefits of affected participants is not nearly as widespread or severe, on average, as that of the maximum insurance limitation.

The accrued-at-normal limitation provision reduced the benefits of a larger proportion of active participants (12 percent) in the 9 affected plans than of retired participants (7 percent) or separated vested participants (less than 0.5 percent). The accrued-atnormal limitation reduced the benefits of affected retirees by an average of \$19,000 (20 percent of the average unreduced benefit) versus an average of \$1,000 (less than 6 percent) per affected active worker. These differences in the average reduction are largely accounted for by the differences in the provisions of just 2 plans. Most retirees were in a plan that provided very generous early retirement supplemental benefits, which explains why affected retirees experienced such a large benefit loss. Most active workers were in another plan with a supplemental benefit design that resulted in only small benefit reductions after the accrued-at-normal limitation was applied. Other statistics support the finding that the accrued-at-normal limitation had a greater negative impact on the benefits of early retirees in our sample than it did on active participants. About one-third of the affected retirees received between 60 percent and 75 percent of their vested plan benefits, one-third received 75-85 percent, and one-third received more than 85 percent but less than 100 percent of what they would have received in the absence of this limitation. However, most affected active participants (almost 70 percent) received between 80 percent and 85 percent of their pre-limitation benefit, and most of the remainder received more than 85 percent.

| Participant Category | Number of Participants Affected by the Accrued-at- Normal Limitation | Present Value of Benefits Before Applying the Accrued-at- Normal Limitation (Dollars in millions) | Present Value of Benefits After Applying the Accrued-at- Normal Limitation (Dollars in millions) | Percent of Pre-limita- tion Benefit Received | Present Value of Total Benefits Lost Due to the Accrued-at- Normal Limitation (Dollars in millions) | Average Loss of Present Value per Affected Participant |
|-------------------------|--|--|---|---|---|---|
| Retired | 207 | \$19.9 | \$15.9 | 80% | \$4.0 | \$19,100 |
| Separated Vested | 4 | \$0.5 | \$0.5 | 94% | ** | *** |
| Active Vested | 277 | \$5.2 | \$4.9 | 94% | \$0.3 | \$1,100 |
| Total | 488 | \$25.6 | \$21.3 | 83% | \$4.3 | \$8,800 |

IV. Impact of the Phase-In Limitation

The phase-in limitation restricts the proportion of recent plan benefit improvements PBGC will pay to participants.¹³ PBGC will fully cover any benefit improvements the plan made more than 5 years prior to the date of the plan's termination. PBGC will not cover any benefit increase the plan made within a year of the date of plan termination.

¹³ Participants who are also substantial owners (an individual who owns the entire interest in an unincorporated trade or business, more than a 10 percent interest in a partnership, or more than 10 percent of the stock in a corporation) are subject to a different "phase-in" provision that we do not discuss in this chapter because it is rarely applicable in large plans.

For benefit improvements that became effective (or that the sponsor adopted, if later) more than one year but less than 5 years prior to the plan's termination, PBGC will guarantee the larger of 20 percent of the benefit increase or \$20 per month for each full year the increase was in effect.

Of the three limitations, the phase-in limitation affected the fewest number of participants in the trusteed plans in our study. (See Table 3.) It reduced the benefits of participants in only 4 companies and in just half of the 8 plans these companies sponsored. The 419 affected participants represent just over one percent of all participants in these 4 plans. However, in 1 of these 4 plans, the limitation reduced the benefits of about 12 percent of the participants. The phase-in limitation reduced total benefits by only about \$1 million, just 2 percent of the vested plan benefits of the affected participants. More than 98 percent of the active and retired participants affected by this limitation received at least 95 percent of their unreduced benefits, reinforcing the minimal impact of this limitation.

The impact of this limitation is relatively small for several reasons. The most important reason is that most sponsors do not regularly improve plan benefits. In addition, few plans receiving ad hoc benefit improvements terminate within five years of the increase, so these increases are usually fully guaranteed by PBGC (subject, of course, to the maximum insurance and accrued-at-normal limitations). Participants likely to have benefits reduced by the phase-in limitation include those in collectively bargained plans that provide regular (yearly) benefit enhancements and those whose employers modified their plans to provide special early retirement incentives shortly before the plan terminated. Even here, the impact of the phase-in limitation may be minimal because PBGC guarantees the greater of 20 percent of the benefit increase or \$20 for each year the increase has been in effect. If the monthly benefit increases are relatively small, they can be fully guaranteed a year or two after the increase becomes effective. For example, a benefit increase of \$30 per month (\$360 per year) will be 66 percent guaranteed by PBGC one year after the increase was made and fully guaranteed after two years.

A second example illustrates what might happen to the benefits of a participant in a collectively bargained plan that provided a monthly benefit increase of \$1 per year of service for each year over a five-year contract period with the first increase implemented at the contract's effective date. A worker with 20 years of service at the beginning of the five-year period would receive benefits increases of \$21 per month if he retired at the end of the first year (the \$1 per month per year of service increase times 21 years of service), \$44 per month if he retired at the end of the second year (both the first and second \$1 monthly increases per year of service times 22 years of service), \$69 if he retired after the third year, \$96 after the fourth, or \$125 if he retired after the fifth year and the plan remained in existence. Assume the plan terminated under PBGC-trusteeship shortly after the fifth increase became effective (just over four years into the contract period). Each of the first three \$1 benefit increases would be fully guaranteed at termination

because each increase would be worth \$24 at that point (\$1 per year of service times 24 years of service) and each would have been in effect for at least 2 years. Recall that PBGC guarantees a minimum of \$20 of a benefit increase once it has been in effect for one year and \$40 per month after 2 years. Only \$20 of the fourth \$24 increase would be guaranteed under the phase-in limitation because the increase had been in effect more than one year but less than two. The fifth increase would not be payable because it had been in effect less than one year and thus was not guaranteed. The phase-in limitation reduced the benefits of this participant from the \$120 he would have received had he retired from an ongoing plan on the plan's termination date (\$5 per month increase per year of service times 24 years of service) to \$92 (\$3 per month increase per year of service times 24 years of service) by \$20 plus \$0).

| Participant Category | Number of Participants Affected by the Phase- In Limitation | Present Value of Benefits Before Applying the Phase-In Limitation (Dollars in millions) | Present Value of Benefits After Applying the Phase-In Limitation (Dollars in millions) | Percent of Pre-limita- tion Benefit Received | Present Value of Total Ben- efits Lost Due to the Phase-In Limitation (Dollars in millions) | Average Loss of Present Value per Affected Participant |
|-------------------------|---|---|--|---|---|---|
| Retired | 253 | \$31.2 | \$30.4 | 97% | \$0.8 | \$3,200 |
| Separated Vested | 20 | \$0.1 | \$0.1 | 77% | ** | *** |
| Active Vested | 146 | \$22.0 | \$21.8 | 99% | \$0.2 | \$1,400 |
| Total | 419 | \$53.3 | \$52.3 | 98% | \$1.0 | \$2,500 |

Table 3: Impact of the Phase-In Limitation on Benefits

V. Observations

This study looked at the impact of three PBGC benefit limitations. We found that these limitations reduced the benefits of at least some participants in 8 of the 10 of the companies in our sample and 17 of the 22 plans they sponsored. Affected participants tended to be concentrated either in plans whose participants had specific characteristics, such as high benefits, or in plans with certain features, such as large supplemental benefits.

About 5.5 percent of all participants in our sample experienced, or will experience, reduced PBGC-paid benefits because of these limitations. Even in the 17 affected plans, only 10.5 percent of the participants received, or will receive, reduced benefits. Thus, these three limitations did not change the benefits for the vast majority of participants in our sample.

The impacts of these limitations, while modest from a population perspective, were substantial for some participants. The present value of the average benefit loss from these three limitations combined was \$1,500 if measured across the 90,488 participants in all 22 plans in our study, \$2,900 if measured across the 47,128 participants in the 17 affected plans, but \$27,400 if measured across only the 4,965 participants who lost some of their benefits. This latter loss is substantial, but it is only about 16 percent of the average present value of vested plan benefits (\$175,100) for these affected participants. On an individual basis, the benefit reductions could be quite severe. More than 100 of the almost 5,000 participants who lost benefits because of these limitations lost more than 50 percent of their vested plan benefits.

In our sample, the maximum insurance limitation had, by far, the largest impact of the three limitations. This limitation reduced the benefits of more than 80 percent of participants affected by any of the three limitations and was responsible for more than 95 percent of the aggregate benefit reductions they experienced. Pilots and flight engineers, who have higher than average pension benefits, represented the majority of participants who lost benefits because of this limitation. We believe our sample contains a higher proportion of high earners than would be found in either the plans PBGC has trusteed or the plans it insures. Thus, we again caution the reader that these results, while informative, should not be generalized beyond the plans in our sample. We are confident that the maximum insurance limitation, of the three, affects the benefits of the greatest number of participants and reduces benefits by the greatest average amount, but we also believe the estimate that it reduces the benefits of 4.5 percent of participants in PBGC-trusteed plans represents an upper limit and that the maximum limitation probably reduced the benefits of a somewhat smaller proportion of participants in all post-PPA trusteed plans.

Compared to the maximum insurance limitation, the accrued-at-normal limitation reduced the benefits of far fewer participants, about 10 percent as many, and by a much smaller average amount, only about \$8,800 in present value terms compared with \$32,000. However, each of these two limitations reduced the benefits of the participants it affected by about 17 percent. Early retirement supplements are more prevalent among plans in the manufacturing sector, which was underrepresented in our sample, than in other sectors. This suggests that our study's estimate that the accrued-at-normal limitation reduced the benefits of 0.5 percent of participants probably underestimates the limitation's impact on participants in all plans PBGC trusteed under PPA provisions.

Our study also indicates that the phase-in limitation reduced the benefits of about 0.5 percent of all participants in our sample. The average reduction in the present value of lifetime benefits for affected participants was only \$2,500 or about 2 percent of their total vested plan benefits. The phase-in limitation has a small impact on participant benefits because PBGC gradually guarantees the benefit improvement over several years. The impact of this limitation depends on both when a benefit enhancement is made relative to the date of the plan's termination and the size of the enhancement. The design of the phase-in limitation is such that most small benefit improvements provided by a plan's sponsor are fully guaranteed in less than 5 years. PBGC's guarantee takes the full 5 years to phase-in if the benefit enhancement is \$100 per month or larger. However, unless the plan adopted a benefit improvement less than one year before the plan terminated, PBGC will guarantee at least a part of the increase. Again, because we believe collectively bargained plans are more likely than other types of plans to be affected by the phase-in limitation and because these plans are underrepresented in our sample, we believe the phase-in limitation has probably affected the benefits of more than 0.5 percent of the participants in plans PBGC trusteed under PPA provisions.

This study presents new but preliminary findings. The results of this study suggest fewer participants are affected by these three statutory limitations (5.5 percent) than we previously assumed (10 to 15 percent). However, because our sample is nonrandom, we cannot generalize these findings to either the population of plans PBGC has trusteed or the population of plans it insures and might trustee in the future. We are encouraged, however, that the results do not contradict our long-held belief that these limitations reduce the benefits of relatively few of the participants in the plans PBGC trustees. To make our results more applicable to the entire population of plans PBGC has trusteed since PPA was enacted, we are expanding our sample to include more companies and plans from the manufacturing and other non-air transportation sectors of the economy. However, the new plans will continue to be drawn from companies that had large unfunded liabilities and terminated after PPA's enactment. Thus, the expanded sample will also be nonrandom and we will need to remain cautious about making generalizations from the analyses we perform on it.



Appendix S

Single-Employer Data Tables

| | Tab | le S-1 | | | | | | |
|--|-------------------------|------------------------------|-------------------------------|--|--|--|--|--|
| Net Financial Position of PBGC's Single-Employer Program (1980-1999) | | | | | | | | |
| Fiscal Year | Assets (in millions) | Liabilities (in millions) | Net Position (in millions) | | | | | |
| 1980 | \$467 | \$561 | -\$95 | | | | | |
| 1981 | 515 | 704 | -189 | | | | | |
| 1982 | 835 | 1,168 | -333 | | | | | |
| 1983 | 1,085 | 1,608 | -523 | | | | | |
| 1984 | 1,063 | 1,525 | -462 | | | | | |
| 1985 | 1,155 | 2,480 | -1,325 | | | | | |
| 1986 | 1,740 | 5,566* | -3,826* | | | | | |
| 1987 | 2,163 | 3,712 | -1,549 | | | | | |
| 1988 | 2,422 | 3,965 | -1,543 | | | | | |
| 1989 | 3,059 | 4,183 | -1,124 | | | | | |
| 1990 | 2,797 | 4,710 | -1,913 | | | | | |
| 1991 | 5,422 | 7,925 | -2,503 | | | | | |
| 1992 | 6,381 | 9,118 | -2,737 | | | | | |
| 1993 | 8,267 | 11,164 | -2,897 | | | | | |
| 1994 | 8,281 | 9,521 | -1,240 | | | | | |
| 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 | | | | | |

Source: PBGC Annual Report (1980-1999). *1986 values include \$1.8 billion in liabilities that were subsequently returned by a Supreme Court ruling to a reorganized LTV Corporation. Due to rounding of individual items, rows may not add across.

| | | Table S-2 | | |
|----------------|--|--|---|--|
| | PBGC Premium Revenue Si | e, Benefit Payments and ngle-Employer Program | Expenses (1980-1 | 1999) |
| 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 |
| 1981 | 75 | 57 | 21 | -3 |
| 1982 | 80 | 94 | 24 | -38 |
| 1983 | 82 | 137 | 27 | -82 |
| 1984 | 81 | 169 | 30 | -118 |
| 1985 | 82 | 170 | 33 | -121 |
| 1986 | 201 | 261 | 33 | -93 |
| 1987 | 268 | 300 | 36 | -68 |
| 1988 | 465 | 356 | 48 | 61 |
| 1989 | 603 | 353 | 45 | 205 |
| 1990 | 659 | 369 | 63 | 227 |
| 1991 | 741 | 514 | 71 | 156 |
| 1992 | 875 | 634 | 97 | 144 |
| 1993 | 890 | 678 | 107 | 105 |
| 1994 | 955 | 719 | 135 | 101 |
| 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 |

Source: PBGC Annual Report (1980-1999). Due to aggregation and rounding of individual items, figures may not add up to totals in other tables.

| | | | | | Table S-3 | | | | | | | | | |
|----------------|--|-------------------------------------|-------------------------------|------------------------------|------------------------|-------------------------------------|--------------------|------------------------|-------------------------------------|--------------------------------------|--|--|--|--|
| | PBGC Benefit Payments, Payees and Deferred Payees (1980-1999) Single-Employer Program | | | | | | | | | | | | | |
| | PERIODIC PENSION PAYMENTS LUMP SUM PAYMENTS ALL PAYMENTS | | | | | | | | | | | | | |
| Fiscal Year | Total (in millions) | Payees in Year (in thousands) | Average Monthly Payment | Median Monthly Payment | Total (in millions) | Payees in Year (in thousands) | Average Payment | Total (in millions) | Payees in Year (in thousands) | Deferred Payees (in thousands) | | | | |
| 1980 | \$34 | 28 | \$124 | \$91 | \$3 | 2 | \$1,623 | \$37 | 30 | 25 | | | | |
| 1981 | 50 | 36 | 129 | 87 | 7 | 5 | 1,484 | 57 | 41 | 33 | | | | |
| 1982 | 79 | 51 | 165 | 79 | 15 | 5 | 2,938 | 94 | 56 | 55 | | | | |
| 1983 | 129 | 55 | 206 | 96 | 8 | 3 | 2,511 | 137 | 58 | 74 | | | | |
| 1984 | 166 | 65 | 232 | 112 | 3 | 1 | 1,942 | 169 | 66 | 83 | | | | |
| 1985 | 166 | 75 | 226 | 128 | 4 | 2 | 1,782 | 170 | 77 | 94 | | | | |
| 1986 | 259 | 91 | 275 | 141 | 2 | 1 | 2,188 | 261 | 92 | 99 | | | | |
| 1987 | 298 | 110 | 248 | 174 | 2 | 1 | 1,770 | 300 | 111 | 104 | | | | |
| 1988 | 347 | 110 | 265 | 178 | 9 | 2 | 3,515 | 356 | 112 | 104 | | | | |
| 1989 | 342 | 107 | 261 | 180 | 11 | 5 | 3,051 | 353 | 112 | 109 | | | | |
| 1990 | 356 | 110 | 262 | 184 | 13 | 6 | 2,437 | 369 | 116 | 115 | | | | |
| 1991 | 499 | 140 | 338 | 189 | 15 | 6 | 2,558 | 514 | 146 | 183 | | | | |
| 1992 | 617 | 150 | 359 | 232 | 17 | 6 | 3,078 | 634 | 156 | 184 | | | | |
| 1993 | 665 | 157 | 379 | 234 | 13 | 5 | 2,686 | 678 | 162 | 188 | | | | |
| 1994 | 699 | 170 | 359 | 238 | 20 | 7 | 2,818 | 719 | 176 | 198 | | | | |
| 1995 | 739 | 182 | 344 | 232 | 22 | 6 | 3,335 | 761 | 187 | 210 | | | | |
| 1996 | 770 | 199 | 328 | 225 | 20 | 7 | 2,757 | 790 | 206 | 240 | | | | |
| 1997 | 800 | 204 | 316 | 212 | 23 | 9 | 2,629 | 823 | 213 | 260 | | | | |
| 1998 | 826 | 208 | 313 | 208 | 21 | 9 | 2,198 | 847 | 216 | 263 | | | | |
| 1999 | 844 | 214 | 311 | 208 | 56 | 16 | 3,553 | 901 | 229 | 317 | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, PBGC Management Reports, and PBGC Benefit Payment Reports. Lump Sum payments include cash-outs of pensions with de minimis present values and backpayments 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. Annual deferred payee totals have been adjusted to reflect subsequent improvements in data quality.

| | | Table S-4 | | | | | | | | | |
|--|---------|-----------|---------------|----------|--------------------------------------|------------------------------|--|--|--|--|--|
| PBGC Payees and Benefit Payments by Industry (1999) Single-Employer Program | | | | | | | | | | | |
| Industry | Pa | ayees | Benefit F | Payments | Mean Monthly Pension | Median Monthly Pension | | | | | |
| AGRICULTURE, MINING, AND CONSTRUCTION | 5,614 | 2.5% | \$24,232,166 | 2.7% | \$310 | \$238 | | | | | |
| MANUFACTURING | 143,973 | 63.0% | 514,004,350 | 57.1% | 289 | 194 | | | | | |
| Apparel and Textile Mill Products | 25,379 | 11.1% | 47,123,684 | 5.2% | 173 | 88 | | | | | |
| Fabricated Metal Products | 15,475 | 6.8% | 51,100,403 | 5.7% | 267 | 202 | | | | | |
| Food and Tobacco Products | 5,998 | 2.6% | 15,087,473 | 1.7% | 210 | 155 | | | | | |
| Machinery and Computer Equipment | 20,952 | 9.2% | 74,485,611 | 8.3% | 280 | 217 | | | | | |
| Motor Vehicle Equipment | 5,164 | 2.3% | 16,190,716 | 1.8% | 256 | 207 | | | | | |
| Primary Metals | 45,422 | 19.9% | 236,151,825 | 26.2% | 416 | 356 | | | | | |
| Rubber and Miscellaneous Plastics | 6,508 | 2.8% | 22,674,434 | 2.5% | 276 | 226 | | | | | |
| Other Manufacturing | 19,075 | 8.3% | 51,190,203 | 3.7% | 216 | 145 | | | | | |
| TRANSPORTATION AND PUBLIC UTILITIES | 55,665 | 24.4% | 309,801,909 | 34.4% | 455 | 334 | | | | | |
| Air Transportation | 43,040 | 18.8% | 276,162,731 | 30.7% | 522 | 394 | | | | | |
| Other Transportation | 12,541 | 5.5% | 33,492,322 | 3.7% | 216 | 165 | | | | | |
| Public Utilities | 84 | * | 146,856 | * | 202 | 141 | | | | | |
| WHOLESALE TRADE | 6,232 | 2.7% | 15,969,727 | 1.8% | 211 | 131 | | | | | |
| RETAIL TRADE | 8,669 | 3.8% | 13,959,129 | 1.5% | 138 | 70 | | | | | |
| FINANCE, INSURANCE, AND REAL ESTATE | 1,438 | 0.6% | 4,259,257 | 0.5% | 261 | 152 | | | | | |
| SERVICES | 6,663 | 2.9% | 18,280,374 | 2.0% | 233 | 143 | | | | | |
| NON-PROFIT ORGANIZATIONS | 272 | 0.1% | 404,611 | * | 102 | 52 | | | | | |
| TOTAL | 228,526 | 100.0% | \$900,911,522 | 100.0% | \$311 | \$208 | | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, and PBGC Management Reports. Due to aggregation and rounding of individual items, totals may not add up to totals in other tables and percentages may not add up to 100 percent. *Less than .05 of one percent.

| | PBC | GC Payee | s and Benefit Single-E | | _ | | ge (199 | 9) | |
|-----------------|---------|--------------------|---|---------------|-------|-------------------------------|----------------|--------|-------------------------------|
| Age | _ | - PERIODIC yees | PENSION PAYEES Average Monthly Pension | Pa | MALE | Average Monthly Pension | Pay | FEMALE | Average Monthly Pension |
| Younger than 60 | 19,194 | 100.0% | \$296 | 11,660 | 60.7% | \$348 | 7,534 | 39.3% | \$220 |
| 60 - 64 | 27,676 | 100.0% | 346 | 19,808 | 71.6% | 402 | 7,868 | 28.4% | 218 |
| 65 - 69 | 39,337 | 100.0% | 351 | 27,397 | 69.6% | 422 | 11,940 | 30.4% | 199 |
| 70 - 74 | 42,506 | 100.0% | 332 | 27,621 | 65.0% | 414 | 14,885 | 35.0% | 187 |
| 75 - 79 | 40,266 | 100.0% | 309 | 24,059 | 59.7% | 403 | 16,207 | 40.3% | 171 |
| 80 - 84 | 26,826 | 100.0% | 268 | 14,749 | 55.0% | 363 | 12,077 | 45.0% | 147 |
| 85 and Older | 18,356 | 100.0% | 209 | 9,321 | 50.8% | 283 | 9,035 | 49.2% | 125 |
| TOTAL | 214,161 | 100.0% | \$311 | 134,615 | 62.9% | \$391 | 79,546 | 37.1% | \$178 |

Sources: PBGC Participant System (PRISM), fiscal year calculations, and PBGC Management Reports. Due to rounding of individual items, totals may not add up exactly to totals in other tables and percentages may not add up to 100 percent. Due to a slight change in the methodology used to prepare this table, differences with previous versions of this table may be noted.

| Table S-6 PBGC Payees and Benefit Payments by Size of Payment (1999) Single-Employer Program | | | | | | | | | |
|--|--|--------------|-----------------|------------|--|--|--|--|--|
| Monthly Payment | Periodic Per | nsion Payees | Periodic Pensio | n Payments | | | | | |
| Less than \$50 | 21,884 | 10.2% | \$8,680,330 | 1.0% | | | | | |
| \$50 - \$99 | 36,736 | 17.2% | 34,661,881 | 4.1% | | | | | |
| \$100 - \$149 | 25,170 | 11.8% | 38,930,989 | 4.6% | | | | | |
| \$150 - \$199 | 20,154 | 9.4% | 43,894,068 | 5.2% | | | | | |
| \$200 - \$249 | 16,865 | 7.9% | 47,157,940 | 5.6% | | | | | |
| \$250 - \$299 | 12,615 | 5.9% | 43,290,406 | 5.1% | | | | | |
| \$300 - \$349 | 11,455 | 5.3% | 46,546,934 | 5.5% | | | | | |
| \$350 - \$399 | 9,617 | 4.5% | 45,393,222 | 5.4% | | | | | |
| \$400 - \$449 | 9,579 | 4.5% | 51,302,755 | 6.1% | | | | | |
| \$450 - \$499 | 7,961 | 3.7% | 47,895,718 | 5.7% | | | | | |
| \$500 - \$549 | 7,031 | 3.3% | 46,911,080 | 5.6% | | | | | |
| \$550 - \$599 | 5,955 | 2.8% | 43,698,039 | 5.2% | | | | | |
| \$600 - \$749 | 12,359 | 5.8% | 105,840,804 | 12.5% | | | | | |
| \$750 - \$999 | 9,340 | 4.4% | 102,485,386 | 12.1% | | | | | |
| \$1,000 - \$1,499 | 5,228 | 2.4% | 79,382,426 | 9.4% | | | | | |
| \$1,500 or more | 2,212 | 1.0% | 58,410,070 | 6.9% | | | | | |
| TOTAL | 214,161 | 100.0% | \$844,482,050 | 100.0% | | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, and PBGC Management Reports. Due to aggregation and rounding of individual items, totals may not add up exactly to totals in other tables and percentages may not add up to 100 percent.

| | | Table S-7 | | | | | | | | | |
|--|---------|-----------------------|--------------------|--------|--|--|--|--|--|--|--|
| PBGC Payees and Benefit Payments by Date of Plan Termination (1999) Single-Employer Program | | | | | | | | | | | |
| Fiscal Year of Plan Termination | | iving Payment 999) | Benefit Pa (199 | | | | | | | | |
| Prior to 1980 | 14,128 | 6.2% | \$23,370,844 | 2.6% | | | | | | | |
| 1980 | 4,781 | 2.1% | 11,351,455 | 1.3% | | | | | | | |
| 1981 | 7,616 | 3.3% | 13,606,863 | 1.5% | | | | | | | |
| 1982 | 15,475 | 6.8% | 47,394,219 | 5.3% | | | | | | | |
| 1983 | 10,689 | 4.7% | 41,122,018 | 4.6% | | | | | | | |
| 1984 | 2,008 | 0.9% | 4,807,631 | 0.5% | | | | | | | |
| 1985 | 7,887 | 3.5% | 23,764,762 | 2.6% | | | | | | | |
| 1986 | 20,268 | 8.9% | 103,160,033 | 11.5% | | | | | | | |
| 1987 | 9,084 | 4.0% | 36,116,542 | 4.0% | | | | | | | |
| 1988 | 9,888 | 4.3% | 35,102,559 | 3.9% | | | | | | | |
| 1989 | 8,060 | 3.5% | 19,438,918 | 2.2% | | | | | | | |
| 1990 | 6,385 | 2.8% | 19,640,970 | 2.2% | | | | | | | |
| 1991 | 46,712 | 20.4% | 274,246,299 | 30.4% | | | | | | | |
| 1992 | 15,446 | 6.8% | 68,389,256 | 7.6% | | | | | | | |
| 1993 | 5,662 | 2.5% | 17,971,652 | 2.0% | | | | | | | |
| 1994 | 12,864 | 5.6% | 60,268,792 | 6.7% | | | | | | | |
| 1995 | 7,351 | 3.2% | 29,676,301 | 3.3% | | | | | | | |
| 1996 | 9,281 | 4.1% | 26,403,225 | 2.9% | | | | | | | |
| 1997 | 11,536 | 5.0% | 37,216,504 | 4.1% | | | | | | | |
| 1998 | 2,818 | 1.2% | 7,136,437 | 0.8% | | | | | | | |
| 1999 | 587 | 0.3% | 726,241 | 0.1% | | | | | | | |
| TOTAL | 228,526 | 100.0% | \$900,911,522 | 100.0% | | | | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, and PBGC Management Reports. Due to rounding of individual items, totals may not add up exactly to totals in other tables and percentages may not add up to 100 percent.

| Table S-8 PBGC Payees and Benefit Payments by Size of Trusteed Plan (1999) Single-Employer Program | | | | | | | | | | |
|--|---------|--------|---------------------------|--------|---------------------------------------|------------------------------|--|--|--|--|
| Number of Plan Participants | Pa | ayees | Payments (in millions) | | Average Monthly Pension Payment | Median Monthly Pension | | | | |
| Under 100 | 18,968 | 8.3% | \$48.2 | 5.3% | \$206 | \$130 | | | | |
| 100 - 499 | 46,452 | 20.3% | 123.4 | 13.7% | 210 | 139 | | | | |
| 500 - 999 | 32,053 | 14.0% | 101.1 | 11.2% | 250 | 143 | | | | |
| 1,000 and Over | 131,053 | 57.3% | 628.2 | 69.7% | 375 | 285 | | | | |
| TOTAL | 228,526 | 100.0% | \$900.9 | 100.0% | \$311 | \$208 | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, and PBGC Management Reports. Due to aggregation and rounding of individual items, totals may not equal those in other tables and percentages may not add up to 100 percent.

| | | | Table S-9 | | | | |
|-------|-----------------------|------------------|---|--|----------|--|--|
| | Bankruptcies and | d Underfunding A | Among Publicly Tra | ded Firms (19 | 80-1998) | | |
| Year | Total Bankruptcies | | ot Firms With ned Benefit Plans Only | Bankrupt Firms With Any Underfunded Defined Benefit Plans | | | |
| 1980 | 86 | 25 | 29.1% | 1 | 1.2% | | |
| 1981 | 76 | 30 | 39.5% | 2 | 2.6% | | |
| 1982 | 93 | 23 | 24.7% | 3 | 3.2% | | |
| 1983 | 86 | 22 | 25.6% | 6 | 7.0% | | |
| 1984 | 113 | 23 | 20.4% | 1 | 0.9% | | |
| 1985 | 128 | 35 | 27.3% | 1 | 0.8% | | |
| 1986 | 128 | 30 | 23.4% | 7 | 5.5% | | |
| 1987 | 95 | 20 | 21.1% | 3 | 3.2% | | |
| 1988 | 122 | 26 | 21.3% | 5 | 4.1% | | |
| 1989 | 150 | 29 | 19.3% | 8 | 5.3% | | |
| 1990 | 149 | 45 | 30.2% | 9 | 6.0% | | |
| 1991 | 145 | 41 | 28.3% | 5 | 3.4% | | |
| 1992 | 99 | 24 | 24.2% | 3 | 3.0% | | |
| 1993 | 114 | 27 | 23.7% | 6 | 5.3% | | |
| 1994 | 60 | 15 | 25.0% | 0 | 0.0% | | |
| 1995 | 94 | 20 | 21.3% | 5 | 5.3% | | |
| 1996 | 69 | 12 | 17.4% | 4 | 5.8% | | |
| 1997 | 105 | 23 | 21.9% | 1 | 1.0% | | |
| 1998 | 104 | 25 | 24.0% | 2 | 1.9% | | |
| TOTAL | 2,016 | 495 | 24.6% | 72 | 3.6% | | |

Sources: Standard and Poor's Compustat Data and New Generations Database and Yearbook, various issues. Table does not reflect any PBGC claims experience.

| | | | Table S- | 10 | | | | | | | | |
|-------------------------|--|--------------------------|-------------------------|--------------|----------------------------------|-----------------------------|--------------------------------|--|--|--|--|--|
| | | PRCC Torm | inations and | Claims (1075 | (_1000) | | | | | | | |
| | PBGC Terminations and Claims (1975-1999) | | | | | | | | | | | |
| Single-Employer Program | | | | | | | | | | | | |
| Fiscal Year | Standard Terminations | Trusteed Terminations | Assets (in millions) | Liabilities | Gross Claims (in millions) | Recoveries (in millions) | Net Claims (in millions) | | | | | |
| 1975 | 2,470 | 100 | \$18.9 | \$56.0 | \$37.2 | \$5.1 | \$32.1 | | | | | |
| 1976 | 8,932 | 171 | 41.6 | 87.9 | 46.3 | 28.5 | 17.8 | | | | | |
| 1977 | 7,202 | 130 | 17.2 | 51.8 | 34.6 | 9.2 | 25.4 | | | | | |
| 1978 | 5,158 | 103 | 43.3 | 124.4 | 81.1 | 8.9 | 72.2 | | | | | |
| 1979 | 4,810 | 82 | 31.3 | 77.3 | 46.1 | 7.2 | 38.8 | | | | | |
| 1980 | 3,933 | 104 | 74.3 | 166.5 | 92.3 | 32.2 | 60.1 | | | | | |
| 1981 | 4,949 | 137 | 67.1 | 174.3 | 107.2 | 39.3 | 67.9 | | | | | |
| 1982 | 6,003 | 131 | 145.6 | 456.2 | 310.7 | 44.3 | 266.4 | | | | | |
| 1983 | 6,730 | 149 | 210.8 | 412.1 | 201.3 | 40.5 | 160.8 | | | | | |
| 1984 | 7,621 | 99 | 19.5 | 48.3 | 28.8 | 3.5 | 25.3 | | | | | |
| 1985 | 8,635 | 115 | 39.9 | 260.9 | 221.0 | 14.5 | 206.5 | | | | | |
| 1986 | 6,829 | 132 | 277.5 | 1,164.0 | 886.5 | 81.1 | 805.4 | | | | | |
| 1987 | 10,865 | 105 | 140.0 | 350.7 | 210.6 | 32.8 | 177.8 | | | | | |
| 1988 | 10,790 | 99 | 109.3 | 379.4 | 270.1 | 21.5 | 248.6 | | | | | |
| 1989 | 11,400 | 85 | 85.5 | 195.7 | 110.1 | 12.4 | 97.7 | | | | | |
| 1990 | 11,800 | 101 | 109.3 | 219.6 | 110.3 | 7.7 | 102.7 | | | | | |
| 1991 | 8,600 | 172 | 1,481.6 | 3,028.4 | 1,546.8 | 233.4 | 1,313.5 | | | | | |
| 1992 | 6,670 | 152 | 250.4 | 829.8 | 579.4 | 77.9 | 501.5 | | | | | |
| 1993 | 5,320 | 122 | 123.5 | 261.0 | 137.4 | 15.9 | 121.5 | | | | | |
| 1994 | 3,950 | 131 | 303.8 | 794.5 | 490.7 | 32.8 | 458.0 | | | | | |
| 1995 | 3,870 | 117 | 235.3 | 394.9 | 159.6 | 6.8 | 152.8 | | | | | |
| 1996 | 3,809 | 83 | 252.2 | 403.9 | 151.8 | 26.3 | 125.5 | | | | | |
| 1997 | 3,497 | 67 | 436.7 | 663.5 | 226.8 | 8.7 | 218.1 | | | | | |
| 1998 | 2,475 | 51 | 166.9 | 262.2 | 95.3 | 2.6 | 92.6 | | | | | |
| 1999 | 1,969 | 37 | 254.6 | 351.1 | 96.5 | 3.8 | 92.7 | | | | | |
| TOTAL | 158,287 | 2,775 | \$4,936.0 | \$11,214.4 | \$6,278.4 | \$796.7 | \$5,481.7 | | | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99) and PBGC Case Administration System.

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

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

1975 termination and claims values are for 7/1/74 to 6/30/75. 1976 values are for 7/1/75 to 9/30/76. For 1977 on, values are for 10/1 of the prior calendar year to 9/30 of the current calendar year.

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 is recorded.

Values are subject to change as PBGC completes reviewing, establishes termination dates, and determines recoveries.

| | Table S-11 PBGC Claims (1975-1999) Single-Employer Program | | | | | | | | | | |
|----------------|--|-----------------|-----------------------------------|--------------------------------|--------|--|--|--|--|--|--|
| Fiscal Year | Total Claims | | 0 10 Firms and I Annual Claims | Other Clai Percent of Total | | | | | | | |
| 1975 | \$37,180,226 | | | \$37,180,226 | 100.0% | | | | | | |
| 1976 | 46,275,083 | — | _ | 46,275,083 | 100.0% | | | | | | |
| 1977 | 34,590,631 | — | _ | 34,590,631 | 100.0% | | | | | | |
| 1978 | 81,063,015 | — | _ | 81,063,015 | 100.0% | | | | | | |
| 1979 | 46,057,726 | _ | | 46,057,726 | 100.0% | | | | | | |
| 1980 | 92,288,503 | — | — | 92,288,503 | 100.0% | | | | | | |
| 1981 | 107,153,344 | — | — | 107,153,344 | 100.0% | | | | | | |
| 1982 | 310,664,367 | — | _ | 310,664,367 | 100.0% | | | | | | |
| 1983 | 201,321,684 | — | | 201,321,684 | 100.0% | | | | | | |
| 1984 | 28,770,078 | — | — | 28,770,078 | 100.0% | | | | | | |
| 1985 | 220,981,335 | \$180,568,290 | 81.7% | 40,413,044 | 18.3% | | | | | | |
| 1986 | 886,502,270 | 722,321,849 | 81.5% | 164,180,422 | 18.5% | | | | | | |
| 1987 | 210,635,701 | 35,566,557 | 16.9% | 175,069,144 | 83.1% | | | | | | |
| 1988 | 270,060,020 | 186,046,772 | 68.9% | 84,013,249 | 31.1% | | | | | | |
| 1989 | 110,135,846 | — | | 110,135,846 | 100.0% | | | | | | |
| 1990 | 110,336,897 | — | _ | 110,336,897 | 100.0% | | | | | | |
| 1991 | 1,546,828,673 | 1,371,920,378 | 88.7% | 174,908,295 | 11.3% | | | | | | |
| 1992 | 579,397,343 | 439,262,437 | 75.8% | 140,134,906 | 24.2% | | | | | | |
| 1993 | 137,448,213 | — | | 137,448,213 | 100.0% | | | | | | |
| 1994 | 490,716,046 | 326,302,449 | 66.5% | 164,413,597 | 33.5% | | | | | | |
| 1995 | 159,613,039 | _ | | 159,613,039 | 100.0% | | | | | | |
| 1996 | 151,774,155 | — | — | 151,774,155 | 100.0% | | | | | | |
| 1997 | 226,832,605 | _ | | 226,832,605 | 100.0% | | | | | | |
| 1998 | 95,259,234 | — | _ | 95,259,234 | 100.0% | | | | | | |
| 1999 | 96,504,428 | — | | 96,504,428 | 100.0% | | | | | | |
| TOTAL | \$6,278,390,463 | \$3,261,988,732 | 52.0% | \$3,016,401,731 | 48.0% | | | | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99) and PBGC Case Administration System. Due to rounding, percentages may not add up to 100 percent. Claims figures in this table are calculated on a plan basis. Annual claims for Top 10 firms are summations of all claims in that fiscal year associated with the Top 10 firms. Values are subject to change as PBGC completes reviewing, establishes termination dates, and determines recoveries. See Table S-12 for a list of the Top 10 firms with the largest value of claims.

PENSION INSURANCE DATA BOOK 1999

SINGLE-EMPLOYER DATA TABLES 27

| | Table S-12 | | | | | | | | | | |
|---|---------------------|-----------------------|---|---------------------|------------------------|---|--|--|--|--|--|
| Top 10 Firms Presenting Claims (1975-1999) Single-Employer Program | | | | | | | | | | | |
| То | p 10 Firms | Number of Plans | Fiscal Years of Plan Terminations | Claims (by firm) | Vested Participants | Average Claim Per Vested Participant | Percent of Total Claims (1975-1999) | | | | |
| 1 | Pan American Air | 3 | 1991, 1992 | \$841,082,434 | 37,472 | \$22,446 | 13.4% | | | | |
| 2 | Eastern Air Lines | 7 | 1991 | 552,730,569 | 51,182 | 10,799 | 8.8% | | | | |
| 3 | Wheeling Pitt Steel | 7 | 1986 | 495,235,029 | 22,144 | 22,364 | 7.9% | | | | |
| 4 | Sharon Steel | 5 | 1994 | 290,787,636 | 6,886 | 42,229 | 4.6% | | | | |
| 5 | LTV Republic Steel | 1 | 1986 | 221,920,051 | 8,208 | 27,037 | 3.5% | | | | |
| 6 | Kaiser Steel | 4 | 1987, 1988 | 221,613,329 | 8,403 | 26,373 | 3.5% | | | | |
| 7 | Allis-Chalmers* | 11 | 1985, 1986 | 185,735,060 | 9,055 | 20,512 | 3.0% | | | | |
| 8 | CF&I Steel | 1 | 1992 | 184,023,622 | 4,239 | 43,412 | 2.9% | | | | |
| 9 | Uniroyal Plastics | 1 | 1992 | 149,930,778 | 5,212 | 28,766 | 2.4% | | | | |
| 10 | Blaw-Knox | 6 | 1992, 1994 | 118,930,225 | 5,659 | 21,016 | 1.9% | | | | |
| | Top 10 Total | 46 | | 3,261,988,732 | 158,460 | 20,586 | 52.0% | | | | |
| | All Other Total | 2,729 | | 3,016,401,731 | 493,202 | 6,116 | 48.0% | | | | |
| | TOTAL | 2,775 | | \$6,278,390,463 | 651,662 | \$9,634 | 100.0% | | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99), PBGC Case Administration System, and PBGC Participant System (PRISM). Due to rounding, percentages may not add up to 100 percent. Data in this table has been calculated on a firm basis and includes all plans of each firm. * Does not include 1997 termination of plan sponsored by the reorganized Allis-Chalmers Corporation.

| Table S-13 PBGC Claims by Plan Funding Ratio at Termination (1975-1999) Single-Employer Program | | | | | | | | |
|---|-----------------|--------|--|--|--|--|--|--|
| Funding Ratio | Cla | ims | | | | | | |
| Under 25% | \$3,104,330,279 | 49.4% | | | | | | |
| 25% - 49% | 1,564,953,356 | 24.9% | | | | | | |
| 50% - 74% | 1,471,974,505 | 23.4% | | | | | | |
| 75% and Over | 137,132,323 | 2.2% | | | | | | |
| TOTAL | \$6,278,390,463 | 100.0% | | | | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99) and PBGC Case Administration System. Calculations represent aggregated claims over the period 1975-1999. Values and distributions are subject to change as PBGC completes reviewing, establishes termination dates, and determines recoveries. Funding ratios are calculated as the ratio of trust plan assets to plan benefit liabilities before recoveries from employers. Due to rounding of individual items, percentages may not add up to 100 percent.

| Table S-14 Average Claim per Vested Participant by Plan Size (1975-1999) Single-Employer Program | | | | | | | | | | | |
|--|------------------------|-------|-------------------|--------|-------------------------------------|--------------------------|--------|---|--|--|--|
| Number of Plan Participants | Vested Participants | Plans | Claims | | Average Claim Per Participant | Claims (1999 Dollars) | | Average Claim Per Participant (1999 Dollars) | | | |
| Under 100 | 63,909 | 1,826 | \$372,782,202 | 5.9% | \$5,833 | \$508,145,236 | 5.9% | \$7,951 | | | |
| 100-999 | 245,658 | 845 | 1,509,393,469 | 24.0% | 6,144 | 2,173,809,076 | 25.0% | 8,849 | | | |
| 1,000-4,999 | 188,359 | 91 | 1,827,353,859 | 29.1% | 9,701 | 2,611,796,143 | 30.1% | 13,866 | | | |
| 5,000-9,999 | 70,046 | 9 | 1,079,218,498 | 17.2% | 15,407 | 1,495,007,660 | 17.2% | 21,343 | | | |
| 10,000 and Over | 83,690 | 4 | 1,489,642,435 | 23.7% | 17,800 | 1,894,699,854 | 21.8% | 22,640 | | | |
| TOTAL | 651,662 | 2,775 | \$6,278,390,463 | 100.0% | \$9,634 | \$8,683,457,969 | 100.0% | \$13,325 | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99), PBGC Case Administration System, and Bureau of Labor Statistics. Claim values and distributions are subject to change as PBGC completes reviewing, establishes termination dates, and determines recoveries. Claims calculations represent aggregated and average counts of plans, claims, and participants over the period 1975-1999. Due to rounding of individual items, percentages may not add up to 100 percent. Claims in 1999 dollars are calculated using Consumer Price Index - Urban Consumers.

| | Table S-15 | | | | | | | | | |
|--|------------------------|--------|-------|---------|--|--|--|--|--|--|
| PBGC Claims by Industry (1975-1999) Single-Employer Program | | | | | | | | | | |
| Industry | Vested Participants | | | | | | | | | |
| AGRICULTURE, MINING, AND CONSTRUCTION | \$122,267,764 | 1.9% | 152 | 15,330 | | | | | | |
| MANUFACTURING | 3,986,824,000 | 63.5% | 1,633 | 381,808 | | | | | | |
| Chemical and Allied Products | 69,409,216 | 1.1% | 29 | 6,848 | | | | | | |
| Fabricated Metal Products | 447,924,033 | 7.1% | 322 | 42,910 | | | | | | |
| Food and Tobacco Products | 110,410,416 | 1.8% | 130 | 18,825 | | | | | | |
| Machinery and Computer Equipment | 566,574,490 | 9.0% | 200 | 51,541 | | | | | | |
| Motor Vehicle Equipment | 205,542,015 | 3.3% | 84 | 25,347 | | | | | | |
| Paper and Allied Products | 37,244,687 | 0.6% | 66 | 6,099 | | | | | | |
| Primary Metals | 1,902,087,507 | 30.3% | 219 | 108,766 | | | | | | |
| Rubber and Miscellaneous Plastics | 225,071,209 | 3.6% | 66 | 17,138 | | | | | | |
| Other Manufacturing | 422,560,427 | 6.7% | 517 | 104,334 | | | | | | |
| TRANSPORTATION AND PUBLIC UTILITIES | 1,704,087,432 | 27.1% | 191 | 136,257 | | | | | | |
| Air Transportation | 1,506,937,409 | 24.0% | 25 | 99,218 | | | | | | |
| Other Transportation and Utilities | 197,150,023 | 3.1% | 166 | 37,039 | | | | | | |
| WHOLESALE TRADE | 61,743,481 | 1.0% | 194 | 20,157 | | | | | | |
| RETAIL TRADE | 153,152,118 | 2.4% | 254 | 43,903 | | | | | | |
| FINANCE, INSURANCE, AND REAL ESTATE | 23,080,596 | 0.4% | 89 | 8,230 | | | | | | |
| SERVICES | 227,235,073 | 3.6% | 262 | 45,977 | | | | | | |
| TOTAL | \$6,278,390,463 | 100.0% | 2,775 | 651,662 | | | | | | |

Sources: PBGC Fiscal Year Closing File (9/30/99) and PBGC Case Administration System. Values and distributions are subject to change as PBGC completes reviewing, establishes termination dates, and determines recoveries. Due to rounding of individual items, percentages may not add up to 100 percent.

| | | | | Table S-16 | | | | | | | | |
|------|---|--|--|--|--|--|--|--|--|--|--|--|
| | PBGC-Covered Plan Participants (1980-1999) Single-Employer Program | | | | | | | | | | | |
| Year | Total Covered Participants (in thousands) | In Plans with 10,000+ 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 <25 Participants (in thousands) | | | | |
| 1980 | 27,518 | 12,044 | 2,833 | 5,776 | 3,852 | 1,436 | 1,064 | 513 | | | | |
| 1981 | 28,076 | 12,304 | 2,894 | 5,900 | 3,901 | 1,455 | 1,094 | 528 | | | | |
| 1982 | 28,182 | 12,190 | 2,867 | 6,077 | 3,979 | 1,484 | 1,069 | 516 | | | | |
| 1983 | 28,701 | 12,770 | 2,908 | 6,030 | 3,839 | 1,536 | 1,090 | 528 | | | | |
| 1984 | 29,637 | 12,707 | 3,010 | 6,503 | 4,146 | 1,588 | 1,131 | 552 | | | | |
| 1985 | 29,809 | 12,724 | 3,164 | 6,579 | 4,032 | 1,585 | 1,164 | 561 | | | | |
| 1986 | 30,043 | 12,800 | 3,236 | 6,596 | 4,104 | 1,593 | 1,155 | 559 | | | | |
| 1987 | 31,200 | 13,522 | 3,168 | 6,728 | 4,434 | 1,644 | 1,166 | 538 | | | | |
| 1988 | 31,461 | 13,820 | 3,141 | 6,844 | 4,401 | 1,581 | 1,150 | 524 | | | | |
| 1989 | 31,574 | 14,253 | 3,356 | 6,881 | 3,984 | 1,492 | 1,108 | 500 | | | | |
| 1990 | 31,633 | 14,336 | 3,351 | 6,989 | 4,064 | 1,429 | 1,023 | 441 | | | | |
| 1991 | 31,851 | 14,759 | 3,433 | 6,945 | 3,968 | 1,415 | 946 | 385 | | | | |
| 1992 | 32,056 | 15,416 | 3,520 | 6,997 | 3,694 | 1,276 | 825 | 328 | | | | |
| 1993 | 32,271 | 15,895 | 3,617 | 7,000 | 3,552 | 1,176 | 758 | 273 | | | | |
| 1994 | 32,372 | 16,258 | 3,814 | 6,942 | 3,292 | 1,120 | 698 | 248 | | | | |
| 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 | | | | |

Source: PBGC Premium Filings, various years. 1999 figures are estimates from PBGC internal calculations. 1998 estimates reported last year have been updated to reflect actual premium filings.

| | | | | Table S-17 | | | | | | | | |
|------|---|--|--|--|--|--|--|--|--|--|--|--|
| | PBGC-Insured Plans (1980-1999) Single-Employer Program | | | | | | | | | | | |
| Year | Total Insured Plans | Insured Plans with 10,000+ 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 <25 Participants | | | | |
| 1980 | 95,439 | 349 | 365 | 2,858 | 7,439 | 8,512 | 19,069 | 56,847 | | | | |
| 1981 | 99,892 | 344 | 360 | 3,010 | 7,803 | 8,928 | 19,956 | 59,491 | | | | |
| 1982 | 103,423 | 393 | 411 | 2,965 | 8,142 | 9,316 | 20,646 | 61,550 | | | | |
| 1983 | 106,668 | 377 | 413 | 2,908 | 8,006 | 9,676 | 21,123 | 64,165 | | | | |
| 1984 | 111,491 | 386 | 428 | 3,178 | 8,470 | 10,005 | 21,891 | 67,133 | | | | |
| 1985 | 112,208 | 354 | 435 | 3,125 | 8,230 | 10,003 | 22,609 | 67,452 | | | | |
| 1986 | 111,944 | 379 | 447 | 3,158 | 8,186 | 9,859 | 22,442 | 67,473 | | | | |
| 1987 | 111,351 | 411 | 450 | 3,276 | 9,036 | 10,339 | 22,373 | 65,466 | | | | |
| 1988 | 108,279 | 412 | 446 | 3,314 | 8,799 | 9,965 | 22,028 | 63,315 | | | | |
| 1989 | 101,724 | 427 | 462 | 3,211 | 8,057 | 9,395 | 21,113 | 59,059 | | | | |
| 1990 | 91,899 | 458 | 477 | 3,400 | 8,085 | 8,976 | 19,464 | 51,039 | | | | |
| 1991 | 82,717 | 495 | 493 | 3,353 | 7,986 | 8,867 | 17,888 | 43,635 | | | | |
| 1992 | 71,589 | 505 | 504 | 3,367 | 7,402 | 7,991 | 15,410 | 36,410 | | | | |
| 1993 | 63,778 | 504 | 517 | 3,336 | 7,064 | 7,358 | 14,392 | 30,607 | | | | |
| 1994 | 57,010 | 524 | 553 | 3,361 | 6,682 | 6,941 | 13,100 | 25,849 | | | | |
| 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 | | | | |

Source: PBGC Premium Filings, various years. 1999 figures are estimates from PBGC internal calculations. 1998 estimates reported last year have been updated to reflect actual premium filings.
Table S-18

PBGC-Insured Plans, Participants and Premiums by Industry (1999) Single-Employer Program

| Industry | Covered Pa | rticipants | Premi | ums | Insure | d Plans |
|---------------------------------------|------------|------------|---------------|--------|--------|---------|
| AGRICULTURE, MINING, AND CONSTRUCTION | 675,420 | 2.0% | \$19,890,327 | 2.2% | 2,807 | 7.5% |
| MANUFACTURING | 17,252,012 | 51.0% | 474,501,098 | 52.6% | 12,079 | 32.2% |
| Chemical and Allied Products | 1,782,585 | 5.3% | 42,441,021 | 4.7% | 958 | 2.6% |
| Fabricated Metal Products | 1,013,744 | 3.0% | 35,565,698 | 3.9% | 2,291 | 6.1% |
| Food and Tobacco Products | 1,289,686 | 3.8% | 37,398,248 | 4.1% | 972 | 2.6% |
| Machinery and Computer Equipment | 1,410,500 | 4.2% | 34,046,326 | 3.8% | 1,173 | 3.1% |
| Motor Vehicle Equipment | 1,885,872 | 5.6% | 52,902,402 | 5.9% | 416 | 1.1% |
| Paper and Allied Products | 802,267 | 2.4% | 20,882,612 | 2.3% | 638 | 1.7% |
| Primary Metals | 889,059 | 2.6% | 32,993,719 | 3.7% | 599 | 1.6% |
| Rubber and Miscellaneous Plastics | 455,568 | 1.3% | 12,022,638 | 1.3% | 532 | 1.4% |
| Other Manufacturing | 7,722,731 | 22.8% | 206,248,434 | 22.9% | 4,500 | 12.0% |
| TRANSPORTATION AND PUBLIC UTILITIES | 3,737,366 | 11.1% | 97,097,121 | 10.8% | 1,586 | 4.2% |
| Air Transportation | 605,452 | 1.8% | 20,787,037 | 2.3% | 96 | 0.3% |
| Other Transportation | 620,571 | 1.8% | 14,647,548 | 1.6% | 638 | 1.7% |
| Public Utilities | 2,511,343 | 7.4% | 61,662,535 | 6.8% | 852 | 2.3% |
| WHOLESALE TRADE | 798,106 | 2.4% | 18,414,108 | 2.0% | 3,302 | 8.8% |
| RETAIL TRADE | 2,259,956 | 6.7% | 59,651,643 | 6.6% | 1,949 | 5.2% |
| FINANCE, INSURANCE, AND REAL ESTATE | 4,148,354 | 12.3% | 102,100,241 | 11.3% | 4,292 | 11.4% |
| SERVICES | 3,937,864 | 11.6% | 102,253,512 | 11.3% | 7,370 | 19.6% |
| NON-PROFIT ORGANIZATIONS | 994,903 | 2.9% | 28,091,950 | 3.1% | 4,151 | 11.1% |
| TOTAL | 33,803,981 | 100.0% | \$902,000,000 | 100.0% | 37,536 | 100.0% |

Source: PBGC Premium Filings.

Due to aggregation and rounding of individual items, totals may not add up to totals in other tables and percentages may not add up to 100 percent.

| PBGC-C | Table S-19 PBGC-Covered Plan Participants by Participant Status (1980-1997) Single-Employer Program | | | | | | | | | |
|--------|---|-------------------------|----------------------------------|--|--|--|--|--|--|--|
| Year | Active Participants | Retired Participants | Separated Vested Participants | | | | | | | |
| 1980 | 77.6% | 16.0% | 6.4% | | | | | | | |
| 1981 | 76.8% | 16.3% | 6.8% | | | | | | | |
| 1982 | 75.3% | 17.2% | 7.5% | | | | | | | |
| 1983 | 73.8% | 18.0% | 8.2% | | | | | | | |
| 1984 | 72.8% | 18.8% | 8.4% | | | | | | | |
| 1985 | 72.2% | 18.7% | 9.1% | | | | | | | |
| 1986 | 71.3% | 19.1% | 9.6% | | | | | | | |
| 1987 | 70.1% | 19.8% | 10.1% | | | | | | | |
| 1988 | 70.6% | 18.9% | 10.5% | | | | | | | |
| 1989 | 70.1% | 18.9% | 11.0% | | | | | | | |
| 1990 | 68.1% | 19.4% | 12.6% | | | | | | | |
| 1991 | 66.4% | 20.1% | 13.5% | | | | | | | |
| 1992 | 64.2% | 20.9% | 14.9% | | | | | | | |
| 1993 | 61.9% | 21.6% | 16.5% | | | | | | | |
| 1994 | 61.2% | 21.3% | 17.5% | | | | | | | |
| 1995 | 58.0% | 22.9% | 19.1% | | | | | | | |
| 1996 | 55.5% | 23.0% | 21.5% | | | | | | | |
| 1997 | 55.0% | 23.8% | 21.3% | | | | | | | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. Due to rounding of individual items, rows may not add up to 100 percent. 1997 figures are estimates from PBGC internal calculations. 1996 estimates reported last year have been updated to reflect actual Form 5500 filings.

| | | Table S-20 | | | | | | | |
|---|--------|--|-------------------|-------------------------|---|--------------------------|--|--|--|
| PBGC-Insured Plans and Participants by Total Premium Paid (1999) Single-Employer Program | | | | | | | | | |
| Total Premium Per Participant | Plans | % of Variable Rate Premium-Paying Plans | % of All Plans | Participants | % of Participants in Variable Rate Premium- Paying Plans | % of All Participants | | | |
| \$19 (NO VARIABLE RATE PREMIUM PAID) | 24,378 | | 64.9% | 29,340,027 | | 86.8% | | | |
| TOTAL VARIABLE RATE PREMIUM PAYERS | 13,158 | 100.0% | 35.1% | 4,463,954 | 100.0% | 13.2% | | | |
| \$19.01-\$28.99 | 1,170 | 8.9% | 3.1% | 793,367 | 17.8% | 2.3% | | | |
| \$29.00-\$38.99 | 1,147 | 8.7% | 3.1% | 388,832 | 8.7% | 1.2% | | | |
| \$39.00-\$48.99 | 1,144 | 8.7% | 3.0% | 422,543 | 9.5% | 1.2% | | | |
| \$49.00-\$58.99 | 1,092 | 8.3% | 2.9% | 417,953 | 9.4% | 1.2% | | | |
| \$59.00-\$68.99 | 925 | 7.0% | 2.5% | 231,835 | 5.2% | 0.7% | | | |
| \$69.00-\$78.99 | 902 | 6.9% | 2.4% | 481,032 | 10.8% | 1.4% | | | |
| \$79.00-\$88.99 | 712 | 5.4% | 1.9% | 239,894 | 5.4% | 0.7% | | | |
| \$89.00-\$98.99 | 649 | 4.9% | 1.7% | 257,664 | 5.8% | 0.8% | | | |
| \$99.00-\$108.99 | 525 | 4.0% | 1.4% | 128,324 | 2.9% | 0.4% | | | |
| \$109.00-\$118.99 | 488 | 3.7% | 1.3% | 126,788 | 2.8% | 0.4% | | | |
| \$119 or More | 4,404 | 33.5% | 11.7% | 975,722 | 21.9% | 2.9% | | | |
| TOTAL ALL PLANS | 37,536 | | 100.0% | 33,803,981 | | 100% | | | |

Source: PBGC Premium Filings. Due to rounding of individual items, percentages may not add up to 100 percent.

| PBGC | Table S-21 PBGC Premium Receipts by Size of Plan and Type of Premium (1999) | | | | | | | | | |
|--|--|--------|---------------|--------|---------------|--------|--|--|--|--|
| Single-Employer Program Number of Plan Flat Rate Variable Rate Total | | | | | | | | | | |
| Participants | Prem | ium | Premium | | Premium | | | | | |
| Under 100 | \$9,754,366 | 1.5% | \$21,502,960 | 8.3% | \$31,257,326 | 3.7% | | | | |
| 100 - 499 | 33,460,756 | 5.2% | 36,988,471 | 14.2% | 70,449,227 | 8.2% | | | | |
| 500 - 999 | 29,092,682 | 4.5% | 29,747,299 | 11.5% | 58,839,980 | 6.8% | | | | |
| 1,000 - 2,499 | 59,247,668 | 9.2% | 37,916,575 | 14.6% | 97,164,243 | 11.0% | | | | |
| 2,500 - 4,999 | 59,462,263 | 9.3% | 35,119,284 | 13.5% | 94,581,547 | 10.6% | | | | |
| 5,000 - 9,999 | 70,702,557 | 11.0% | 23,887,760 | 9.2% | 94,590,317 | 10.4% | | | | |
| 10,000 and Over | 380,555,348 | 59.3% | 74,562,011 | 28.7% | 455,117,359 | 49.3% | | | | |
| TOTAL | \$642,275,639 | 100.0% | \$259,724,361 | 100.0% | \$902,000,000 | 100.0% | | | | |
| PERCENT OF TOTAL | 7 | 1% | 29 | % | 100% | | | | | |

Source: PBGC Premium Filings. Due to aggregation and rounding of individual items, premium totals may not equal those in other tables and percentages may not add up to 100 percent. "Percent of Total" represent proportions of Flat Rate and Variable Rate Premiums, respectively, of Total Premiums.

| Table S-22 PBGC-Insured Plans and Participants by Variable Rate Premium Status (1992-1999) Single-Employer Program | | | | | | | | |
|--|--|---|---|--|--|--|--|--|
| Beginning of Year | Plans Paying Variable Rate Premium | Plans Paying Flat Rate Premium Only | Participants In Plans Paying Variable Rate Premium | Participants In Plans Paying Flat Rate Premium Only | Variable Rate Premium Interest Rate* | | | |
| 1992 | 30.8% | 69.2% | 27.4% | 72.6% | 6.16% | | | |
| 1993 | 36.4% | 63.6% | 24.9% | 75.1% | 5.95% | | | |
| 1994 | 43.1% | 56.9% | 34.2% | 65.8% | 5.00% | | | |
| 1995 | 38.5% | 61.5% | 23.8% | 76.2% | 6.30% | | | |
| 1996 | 46.8% | 53.2% | 32.1% | 67.9% | 4.85% | | | |
| 1997 | 37.0% | 63.0% | 19.4% | 80.6% | 5.24% | | | |
| 1998 | 35.6% | 64.4% | 16.6% | 83.4% | 5.09% | | | |
| 1999 | 35.1% | 64.9% | 13.2% | 86.8% | 4.30% | | | |

Source: PBGC Premium Filings. * Interest rates for valuing vested benefits for PBGC Variable Rate Premium for plans with premium payment years beginning in January of the respective year.

| | | | Table S-23 | 3 | | | | | | |
|--|-------------------------|------------------------------|------------------|-------------------------------|------------------------------|---------------|--|--|--|--|
| Funding of PBGC-Insured Plans (1980-1997) Single-Employer Program | | | | | | | | | | |
| Beginning of Year | Assets (in millions) | Liabilities (in millions) | Funding Ratio | Underfunding (in millions) | Overfunding (in millions) | PBGC Rate* | | | | |
| 1980 | \$259,810 | \$211,817 | 123% | \$20,156 | \$67,894 | 8.50% | | | | |
| 1981 | 309,969 | 212,072 | 146% | 12,043 | 114,676 | 9.75% | | | | |
| 1982 | 331,540 | 206,303 | 161% | 10,263 | 135,500 | 10.75% | | | | |
| 1983 | 376,732 | 241,010 | 156% | 11,783 | 147,505 | 9.75% | | | | |
| 1984 | 457,644 | 280,695 | 163% | 9,876 | 186,825 | 9.75% | | | | |
| 1985 | 500,673 | 308,617 | 162% | 11,182 | 203,238 | 9.75% | | | | |
| 1986 | 619,490 | 406,118 | 153% | 14,719 | 228,091 | 8.50% | | | | |
| 1987 | 644,239 | 463,255 | 139% | 20,692 | 201,676 | 7.50% | | | | |
| 1988 | 640,741 | 450,844 | 142% | 22,341 | 212,238 | 8.25% | | | | |
| 1989 | 696,146 | 517,226 | 135% | 26,340 | 205,260 | 7.75% | | | | |
| 1990 | 837,131 | 604,047 | 139% | 35,689 | 268,773 | 7.25% | | | | |
| 1991 | 848,251 | 687,896 | 123% | 34,485 | 194,840 | 7.25% | | | | |
| 1992 | 915,722 | 771,421 | 119% | 47,528 | 191,829 | 6.25% | | | | |
| 1993 | 951,972 | 844,803 | 113% | 59,622 | 166,791 | 6.40% | | | | |
| 1994 | 1,001,129 | 936,698 | 107% | 75,569 | 140,000 | 5.65% | | | | |
| 1995 | 1,032,503 | 887,730 | 116% | 37,278 | 182,050 | 7.15% | | | | |
| 1996 | 1,198,221 | 1,134,194 | 106% | 83,071 | 147,098 | 5.30% | | | | |
| 1997 | 1,368,188 | 1,192,222 | 115% | 47,906 | 223,871 | 5.80% | | | | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| Table S-24 Funding of Underfunded PBGC-Insured Plans (1980-1997) Single-Employer Program | | | | | | | | |
|--|-------------------------|------------------------------|-------------------------------|------------------|---------------|--|--|--|
| Beginning of Year | Assets (in millions) | Liabilities (in millions) | Underfunding (in millions) | Funding Ratio | PBGC Rate* | | | |
| 1980 | \$53,840 | \$73,996 | \$20,156 | 73% | 8.50% | | | |
| 1981 | 31,587 | 43,630 | 12,043 | 72% | 9.75% | | | |
| 1982 | 29,967 | 40,230 | 10,263 | 74% | 10.75% | | | |
| 1983 | 37,037 | 48,820 | 11,783 | 76% | 9.75% | | | |
| 1984 | 26,208 | 36,084 | 9,876 | 73% | 9.75% | | | |
| 1985 | 28,722 | 39,904 | 11,182 | 72% | 9.75% | | | |
| 1986 | 41,780 | 56,499 | 14,719 | 74% | 8.50% | | | |
| 1987 | 62,942 | 83,634 | 20,692 | 75% | 7.50% | | | |
| 1988 | 68,920 | 91,261 | 22,341 | 76% | 8.25% | | | |
| 1989 | 99,682 | 126,022 | 26,340 | 79% | 7.75% | | | |
| 1990 | 95,068 | 130,758 | 35,689 | 73% | 7.25% | | | |
| 1991 | 147,301 | 181,786 | 34,485 | 81% | 7.25% | | | |
| 1992 | 172,372 | 219,900 | 47,528 | 78% | 6.25% | | | |
| 1993 | 215,695 | 275,317 | 59,622 | 78% | 6.40% | | | |
| 1994 | 308,516 | 384,085 | 75,569 | 80% | 5.65% | | | |
| 1995 | 218,493 | 255,771 | 37,278 | 85% | 7.15% | | | |
| 1996 | 493,597 | 576,668 | 83,071 | 86% | 5.30% | | | |
| 1997 | 353,823 | 401,729 | 47,906 | 88% | 5.80% | | | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| Table S-25 Funding of Overfunded PBGC-Insured Plans (1980-1997) Single-Employer Program | | | | | | | | |
|---|-------------------------|------------------------------|------------------------------|------------------|---------------|--|--|--|
| Beginning of Year | Assets (in millions) | Liabilities (in millions) | Overfunding (in millions) | Funding Ratio | PBGC Rate* | | | |
| 1980 | \$205,970 | \$138,076 | \$67,894 | 149% | 8.50% | | | |
| 1981 | 278,382 | 163,706 | 114,676 | 170% | 9.75% | | | |
| 1982 | 301,573 | 166,073 | 135,500 | 182% | 10.75% | | | |
| 1983 | 339,695 | 192,190 | 147,505 | 177% | 9.75% | | | |
| 1984 | 431,436 | 244,611 | 186,825 | 176% | 9.75% | | | |
| 1985 | 471,951 | 268,713 | 203,238 | 176% | 9.75% | | | |
| 1986 | 577,710 | 349,619 | 228,091 | 165% | 8.50% | | | |
| 1987 | 581,297 | 379,621 | 201,676 | 153% | 7.50% | | | |
| 1988 | 571,821 | 359,583 | 212,238 | 159% | 8.25% | | | |
| 1989 | 596,464 | 391,204 | 205,260 | 152% | 7.75% | | | |
| 1990 | 742,063 | 473,289 | 268,773 | 157% | 7.25% | | | |
| 1991 | 700,950 | 506,110 | 194,840 | 138% | 7.25% | | | |
| 1992 | 743,350 | 551,520 | 191,829 | 135% | 6.25% | | | |
| 1993 | 736,277 | 569,486 | 166,791 | 129% | 6.40% | | | |
| 1994 | 692,613 | 552,613 | 140,000 | 125% | 5.65% | | | |
| 1995 | 814,009 | 631,959 | 182,050 | 129% | 7.15% | | | |
| 1996 | 704,624 | 557,526 | 147,098 | 126% | 5.30% | | | |
| 1997 | 1,014,365 | 790,494 | 223,871 | 128% | 5.80% | | | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| Table S-26 Concentration of Underfunding in PBGC-Insured Plans (1990-1997) 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% | | | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. Due to rounding of individual items, percentages may not add up to 100 percent. Vested liabilities have been adjusted to an interest 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 1990-1992 and GAM-83 for 1993-1997.

| P | articipan | ts and Fu | | | | y Funding | ; Ratio (1997 |) | |
|---------------|------------------|-----------|-------------|-------------------|----------|-------------------------------|---------------|------------------------------|--|
| Funding Ratio | D (in thousands) | | | Total Liabilities | | Underfunding (in millions) | | Overfunding (in millions) | |
| Under 40% | 64 | 0.2% | \$1,347 | 0.1% | \$961 | 2.0% | 1 - | _ | |
| 40% - 49% | 108 | 0.3% | 2,664 | 0.2% | 1,477 | 3.1% | | _ | |
| 50% - 59% | 179 | 0.5% | 4,881 | 0.4% | 2,195 | 4.6% | - | _ | |
| 60% - 69% | 697 | 2.1% | 19,827 | 1.7% | 6,770 | 14.1% | | _ | |
| 70% - 79% | 1,917 | 5.8% | 39,232 | 3.3% | 9,605 | 20.1% | | — | |
| 80% - 89% | 4,417 | 13.3% | 129,857 | 10.9% | 18,401 | 38.4% | | _ | |
| 90% - 99% | 5,396 | 16.2% | 203,922 | 17.1% | 8,496 | 17.7% | | | |
| 100% - 109% | 4,845 | 14.6% | 160,365 | 13.5% | - | — | \$7,941 | 3.5% | |
| 110% - 119% | 4,980 | 15.0% | 217,134 | 18.2% | i – | — | 32,152 | 14.4% | |
| 120% - 129% | 3,759 | 11.3% | 132,093 | 11.1% | i – | — | 33,032 | 14.8% | |
| 130% - 139% | 2,636 | 7.9% | 123,082 | 10.3% | i – | — | 42,132 | 18.8% | |
| 140% - 149% | 1,190 | 3.6% | 50,239 | 4.2% | i — | — | 22,341 | 10.0% | |
| 150% and Over | 3,026 | 9.1% | 107,582 | 9.0% | i — | _ | 86,274 | 38.5% | |
| TOTAL | 33,214 | 100.0% | \$1,192,222 | 100.0% | \$47,906 | 100.0% | \$223,871 | 100.0% | |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. Due to rounding of individual items, dollar totals may not add up to totals in other tables and percentages may not add up to 100 percent. Vested liabilities have been adjusted to an interest rate that, along with the GAM-83 mortality table, reflects the cost to purchase an annuity at the beginning of 1997.

| Table S-28 Various Measures of Underfunding in PBGC-Insured Plans (1990-1999) Single-Employer Program | | | | | | | | |
|---|---|---|---|--|--|--|--|--|
| Beginning of Year | (A) Form 5500 Filings (in billions) | (B) Top 50 / Compustat (in billions) | (C) Variable Rate Premium (in billions) | (D) Section 4010 Filings (in billions) | (E) Reasonably Possible (in billions) | | | |
| 1990 | \$35.69 | \$26.78 | \$41.28 | | \$8.00 | | | |
| 1991 | 34.48 | 32.80 | 43.32 | | 13.00 | | | |
| 1992 | 47.53 | 38.19 | 53.66 | | 12.36 | | | |
| 1993 | 59.62 | 53.07 | 43.80 | | 13.06 | | | |
| 1994 | 75.57 | 71.00 | 65.67 | | 18.23 | | | |
| 1995 | 37.28 | 31.39 | 33.37 | | 14.56 | | | |
| 1996 | 83.07 | 63.68 | 82.23 | \$38.10 | 22.47 | | | |
| 1997 | 47.91 | | 51.57 | 28.70 | 20.73 | | | |
| 1998 | | | 37.23 | 25.20 | 15.38 | | | |
| 1999 | | | 28.86 | 34.90 | 17.50 | | | |

Definitions:

(A) Underfunding calculated from IRS Form 5500 filings.

(B) Data collected from companies in the preparation of the PBGC Top 50 list of largest underfunded plan sponsors.

Data for other firms is obtained from Standard & Poor's Compustat.

(C) Underfunding data from PBGC premium filings used to calculate the Variable Rate Premium.

(D) Data from filings made under Section 4010 of ERISA, which requires that companies annually provide PBGC with information on their underfunded plans, if the firm's aggregate underfunding exceeds \$50 million, or there is an outstanding lie for missed contributions exceeding \$1 million or an outstanding funding waiver of more than \$1 million.

(E) Underfunding for plan sponsors with less than investment grade bond ratings.

Firms and plans included in (C), (D) and (E) totals may differ from year to year.

| | - | Table S-29 | | | | | |
|---------------------------------------|---------------------------|-------------------|--------|-----------|-------------------------------|-----------|---------|
| Funding o | of PBGC-Insu Single-Em | | | ustry (19 | 97) | | |
| Industry | Funding Ratio | Total Liabilities | | | Underfunding (in millions) | | iunding |
| AGRICULTURE, MINING, AND CONSTRUCTION | 108% | \$17,129 | 1.4% | \$826 | 1.7% | \$2,266 | 1.0% |
| MANUFACTURING | 107% | 662,001 | 55.5% | 29,811 | 62.2% | 90,688 | 40.5% |
| Chemical and Allied Products | 109% | 66,732 | 5.6% | 2,463 | 5.1% | 8,618 | 3.8% |
| Electronic, Electrical Equipment | 117% | 81,168 | 6.8% | 4,006 | 8.4% | 17,811 | 8.0% |
| Fabricated Metal Products | 100% | 25,189 | 2.1% | 2,700 | 5.6% | 2,675 | 1.2% |
| Food and Tobacco Products | 111% | 32,328 | 2.7% | 1,472 | 3.1% | 5,000 | 2.2% |
| Machinery and Computer Equipment | 110% | 69,776 | 5.9% | 1,822 | 3.8% | 9,015 | 4.0% |
| Motor Vehicle Equipment | 108% | 119,937 | 10.1% | 2,489 | 5.2% | 11,805 | 5.3% |
| Paper and Allied Products | 109% | 23,769 | 2.0% | 1,401 | 2.9% | 3,524 | 1.6% |
| Petroleum Refining | 111% | 27,505 | 2.3% | 451 | 0.9% | 3,437 | 1.5% |
| Primary Metals | 95% | 42,470 | 3.6% | 4,654 | 9.7% | 2,721 | 1.2% |
| Scientific and Medical Instruments | 103% | 13,502 | 1.1% | 706 | 1.5% | 1,167 | 0.5% |
| Other Manufacturing | 111% | 159,626 | 13.4% | 7,646 | 16.0% | 24,915 | 11.1% |
| TRANSPORTATION AND PUBLIC UTILITIES | 127% | 219,861 | 18.4% | 5,212 | 10.9% | 64,126 | 28.6% |
| Air Transportation | 102% | 29,481 | 2.5% | 1,869 | 3.9% | 2,500 | 1.1% |
| Other Transportation | 110% | 16,794 | 1.4% | 1,192 | 2.5% | 2,836 | 1.3% |
| Public Utilities | 133% | 173,587 | 14.6% | 2,151 | 4.5% | 58,790 | 26.3% |
| WHOLESALE TRADE | 120% | 14,677 | 1.2% | 825 | 1.7% | 3,723 | 1.7% |
| RETAIL TRADE | 102% | 22,062 | 1.9% | 2,301 | 4.8% | 2,678 | 1.2% |
| FINANCE, INSURANCE, AND REAL ESTATE | 120% | 125,907 | 10.6% | 3,704 | 7.7% | 29,209 | 13.0% |
| SERVICES | 121% | 103,758 | 8.7% | 4,239 | 8.8% | 25,861 | 11.6% |
| NON-PROFIT ORGANIZATIONS | 116% | 26,828 | 2.3% | 988 | 2.1% | 5,321 | 2.4% |
| TOTAL | 115% | \$1,192,222 | 100.0% | \$47,906 | 100.0% | \$223,871 | 100.0% |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. Due to rounding of individual items, percentages may not add up to 100 percent. Vested liabilities have been adjusted to an interest rate that, along with the GAM-83 mortality table, reflects the cost to purchase an annuity at the beginning of 1997.

| | | | Table S | 5-30 | | | | |
|----------------------|---------------|---------------------------|--------------------------|---------------|---------------------------|---------------------|---------------|-------------------|
| | Pension Fu | | a for PBGC gle-Employ | | | State (1997) | | |
| STATE/REGION | Assets | OVERFUNDEI Liabilities | Overfunding | ا Assets | JNDERFUNDE Liabilities | D Underfunding | TOT Assets | AL Liabilities |
| | (in millions) | (in millions) | (in millions) | (in millions) | (in millions) | (in millions) | (in millions) | (in millions) |
| NEW ENGLAND | \$106,946 | \$83,286 | \$23,660 | \$28,776 | \$32,305 | \$3,529 | \$135,722 | \$115,591 |
| Connecticut | 70,080 | 54,195 | 15,885 | 16,998 | 18,846 | 1,848 | 87,078 | 73,042 |
| Maine | 1,183 | 985 | 198 | 284 | 329 | 45 | 1,467 | 1,314 |
| Massachusetts | 28,141 | 21,979 | 6,162 | 9,098 | 10,309 | 1,211 | 37,240 | 32,289 |
| New Hampshire | 837 | 705 | 132 | 895 | 1,067 | 172 | 1,731 | 1,772 |
| Rhode Island | 6,275 | 5,054 | 1,222 | 1,346 | 1,572 | 226 | 7,622 | 6,626 |
| Vermont | 430 | 367 | 63 | 154 | 181 | 27 | 585 | 549 |
| MID-ATLANTIC | 351,587 | 278,495 | 73,092 | 102,729 | 119,726 | 16,997 | 454,316 | 398,221 |
| Delaware | 5,373 | 4,397 | 976 | 505 | 611 | 107 | 5,878 | 5,008 |
| District of Columbia | 8,622 | 6,574 | 2,048 | 3,016 | 3,335 | 319 | 11,638 | 9,908 |
| Maryland | 24,043 | 18,496 | 5,547 | 4,989 | 5,678 | 689 | 29,032 | 24,174 |
| New Jersey | 70,674 | 53,601 | 17,073 | 20,422 | 23,050 | 2,627 | 91,096 | 76,650 |
| New York | 170,087 | 136,753 | 33,334 | 27,393 | 32,414 | 5,021 | 197,479 | 169,167 |
| Pennsylvania | 55,678 | 45,007 | 10,671 | 35,840 | 42,532 | 6,691 | 91,518 | 87,539 |
| Virginia | 16,200 | 12,999 | 3,202 | 9,656 | 11,005 | 1,349 | 25,857 | 24,004 |
| West Virginia | 910 | 668 | 242 | 908 | 1,102 | 194 | 1,819 | 1,770 |
| SOUTHEAST | 90,946 | 66,889 | 24,058 | 30,006 | 34,871 | 4,865 | 120,952 | 101,759 |
| Alabama | 3,016 | 2,375 | 640 | 737 | 861 | 123 | 3,753 | 3,236 |
| Arkansas | 1,159 | 909 | 250 | 224 | 269 | 45 | 1,383 | 1,178 |
| Florida | 8,735 | 5,982 | 2,753 | 4,358 | 5,048 | 689 | 13,093 | 11,029 |
| Georgia | 40,233 | 27,460 | 12,774 | 5,973 | 7,202 | 1,229 | 46,207 | 34,662 |
| Kentucky | 4,769 | 3,842 | 928 | 1,259 | 1,508 | 250 | 6,028 | 5,350 |
| Louisiana | 3,633 | 2,859 | 774 | 5,704 | 6,077 | 373 | 9,338 | 8,936 |
| Mississippi | 1,431 | 1,110 | 321 | 181 | 215 | 34 | 1,612 | 1,325 |
| North Carolina | 11,069 | 8,673 | 2,396 | 6,445 | 7,313 | 868 | 17,514 | 15,986 |
| South Carolina | 2,666 | 2,116 | 550 | 2,849 | 3,633 | 784 | 5,515 | 5,749 |
| Tennessee | 14,235 | 11,563 | 2,671 | 2,275 | 2,745 | 470 | 16,509 | 14,308 |
| GREAT LAKES | 246,531 | 193,051 | 53,479 | 132,392 | 146,043 | 13,651 | 378,923 | 339,095 |
| Illinois | 68,712 | 50,577 | 18,135 | 30,312 | 34,927 | 4,615 | 99,024 | 85,504 |
| Indiana | 10,542 | 7,831 | 2,712 | 4,928 | 5,881 | 953 | 15,470 | 13,711 |
| Michigan | 95,319 | 80,597 | 14,722 | 53,943 | 56,247 | 2,304 | 149,262 | 136,844 |
| Minnesota | 13,320 | 9,939 | 3,381 | 15,579 | 17,212 | 1,633 | 28,899 | 27,151 |
| Ohio | 44,101 | 33,951 | 10,150 | 20,697 | 23,790 | 3,093 | 64,797 | 57,741 |
| Wisconsin | 14,537 | 10,158 | 4,379 | 6,934 | 7,986 | 1,052 | 21,471 | 18,143 |

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SINGLE-EMPLOYER DATA TABLES 46

| | Pension F | 0 | Table S-30 (ta for PBGC ngle-Employ | C-Insured | v | State (1997 | ') | |
|----------------------|-------------------------|---|--|------------------------------|--|-------------------------------------|-------------------------------|-------------------------------------|
| STATE/REGION | Assets (in millions) | OVERFUNDE Liabilities (in millions) | D Overfunding (in millions) | L Assets (in millions) | JNDERFUNDI Liabilities (in millions) | ED Underfunding (in millions) | TO Assets (in millions) | TAL Liabilities (in millions) |
| MIDWEST | \$23,933 | \$18,893 | \$5.041 | \$11,166 | \$12,877 | \$1,710 | \$35,100 | \$31,770 |
| lowa | 3,014 | 2,217 | 796 | 2,448 | 2,822 | 374 | 5,462 | 5,039 |
| Kansas | 4,414 | 3,809 | 604 | 655 | 784 | 128 | 5,069 | 4,593 |
| Missouri | 14,014 | 10,777 | 3,237 | 7,202 | 8,237 | 1,034 | 21,216 | 19,013 |
| Nebraska | 2,079 | 1,768 | 311 | 779 | 944 | 166 | 2,857 | 2,712 |
| North Dakota | 223 | 176 | 48 | 77 | 85 | 8 | 301 | 261 |
| South Dakota | 190 | 146 | 44 | 5 | 5 | * | 195 | 151 |
| SOUTHWEST | 65,525 | 50,558 | 14,967 | 24,999 | 27,941 | 2,942 | 90,524 | 78,499 |
| Arizona | 1,869 | 1,651 | 218 | 4,279 | 4,459 | 180 | 6,147 | 6,109 |
| New Mexico | 2,546 | 1,366 | 1,180 | 317 | 328 | 11 | 2,864 | 1,695 |
| Oklahoma | 2,487 | 1,980 | 507 | 1,979 | 2,210 | 231 | 4,466 | 4,190 |
| Texas | 58,623 | 45,561 | 13,062 | 18,424 | 20,944 | 2,520 | 77,047 | 66,505 |
| ROCKY MOUNTAIN | 19,406 | 14,582 | 4,824 | 4,958 | 5,458 | 500 | 24,364 | 20,040 |
| Colorado | 12,349 | 8,933 | 3,416 | 3,125 | 3,408 | 284 | 15,474 | 12,341 |
| Idaho | 2,092 | 1,815 | 277 | 504 | 593 | 90 | 2,596 | 2,408 |
| Montana | 302 | 230 | 72 | 15 | 18 | 3 | 317 | 247 |
| Nevada | 461 | 327 | 135 | 601 | 652 | 52 | 1,062 | 979 |
| Utah | 4,131 | 3,242 | 889 | 677 | 748 | 70 | 4,808 | 3,990 |
| Wyoming | 71 | 35 | 36 | 36 | 39 | 2 | 107 | 74 |
| PACIFIC | 108,798 | 84,178 | 24,619 | 18,119 | 21,600 | 3,481 | 126,917 | 105,779 |
| Alaska | 143 | 111 | 33 | 110 | 131 | 21 | 253 | 242 |
| California | 67,528 | 50,814 | 16,714 | 12,957 | 15,727 | 2,771 | 80,484 | 66,542 |
| Hawaii | 2,050 | 1,473 | 577 | 584 | 700 | 117 | 2,634 | 2,173 |
| Oregon | 3,167 | 2,512 | 655 | 2,179 | 2,529 | 350 | 5,346 | 5,041 |
| Washington | 35,909 | 29,269 | 6,640 | 2,290 | 2,512 | 222 | 38,199 | 31,781 |
| U.S. TERRITORIES | 693 | 562 | 131 | 678 | 908 | 230 | 1,371 | 1,470 |
| American Samoa | * | * | * | 2 | 2 | * | 2 | 2 |
| Guam | 4 | 4 | * | * | * | * | 4 | 4 |
| Puerto Rico | 686 | 556 | 130 | 656 | 880 | 224 | 1,342 | 1,437 |
| Virgin Islands TOTAL | 2 \$1,014,365 | 2 \$790,494 | * \$223,871 | 20 \$353,823 | 26 \$401,729 | 5 \$47,906 | 23 \$1,368,188 | 28 \$1,192,222 |

Source: Internal Revenue Service Form 5500 Series Filings for single-employer plans with 100 or more participants. Due to rounding of individual items, totals may not equal those in other tables or add up across columns. Vested liabilities have been adjusted to an interest rate that, along with the GAM-83 mortality table, reflects the cost to purchase an annuity at the beginning of 1997. Funding data is reported by state of plan administration. *Less than \$500,000.

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SINGLE-EMPLOYER DATA TABLES 47

| | | | Table S-3 on Data by e-Employe | State* and Re | gion | | | |
|----------------------|-------|-----------------|--------------------------------------|------------------|--------|-----------------------|-------------------------|--|
| STATE/REGION | - | AIMS /5-1999 | Covi | COVERAGE 1999 | | BENEFITS PAID 1999 | | |
| | Plans | Claims | Plans | Participants | Payees | Payments | Mean Monthly Pension | |
| NEW ENGLAND | 349 | \$421,795,203 | 3,039 | 1,930,193 | 14,511 | \$42,489,282 | \$228 | |
| Connecticut | 97 | 250,835,608 | 1,102 | 723,393 | 4,798 | 15,844,115 | 261 | |
| Maine | 8 | 932,489 | 146 | 148,737 | 1,293 | 2,336,328 | 141 | |
| Massachusetts | 180 | 109,693,957 | 1,305 | 730,165 | 5,341 | 15,356,896 | 222 | |
| New Hampshire | 16 | 6,138,752 | 183 | 145,356 | 1,141 | 4,132,001 | 282 | |
| Rhode Island | 39 | 34,852,346 | 209 | 111,553 | 1,299 | 2,397,392 | 140 | |
| Vermont | 9 | 19,342,051 | 94 | 70,989 | 639 | 2,422,551 | 288 | |
| MID-ATLANTIC | 955 | 3,348,192,397 | 12,309 | 7,565,319 | 57,632 | 226,722,931 | 307 | |
| Delaware | 4 | 4,392,433 | 179 | 169,020 | 664 | 2,481,808 | 305 | |
| District of Columbia | 11 | 3,326,881 | 289 | 50,706 | 181 | 657,032 | 285 | |
| Maryland | 63 | 64,516,672 | 709 | 726,784 | 2,194 | 9,410,319 | 341 | |
| New Jersey | 160 | 149,654,683 | 2,276 | 1,142,573 | 6,018 | 21,370,281 | 280 | |
| New York | 381 | 2,022,008,900 | 5,209 | 2,271,623 | 14,749 | 56,466,130 | 298 | |
| Pennsylvania | 266 | 603,263,976 | 2,626 | 1,717,240 | 26,386 | 108,859,720 | 319 | |
| Virginia | 27 | 8,243,149 | 792 | 1,179,756 | 4,103 | 12,532,353 | 244 | |
| West Virginia | 43 | 492,785,703 | 229 | 307,616 | 3,337 | 14,945,287 | 351 | |
| SOUTHEAST | 209 | 175,952,137 | 4,242 | 6,321,336 | 52,724 | 223,178,617 | 342 | |
| Alabama | 15 | 9,809,662 | 298 | 392,126 | 3,359 | 8,117,486 | 210 | |
| Arkansas | 8 | 4,359,684 | 175 | 219,725 | 1,301 | 3,186,926 | 197 | |
| Florida | 48 | 50,153,706 | 976 | 1,541,460 | 22,197 | 125,214,478 | 444 | |
| Georgia | 33 | 45,482,227 | 630 | 990,455 | 7,335 | 34,710,169 | 378 | |
| Kentucky | 15 | 7,807,667 | 377 | 540,864 | 2,248 | 5,783,831 | 217 | |
| Louisiana | 20 | 5,931,106 | 302 | 537,482 | 1,790 | 5,691,965 | 255 | |
| Mississippi | 6 | 2,063,353 | 150 | 182,541 | 1,347 | 2,641,835 | 166 | |
| North Carolina | 28 | 10,736,972 | 620 | 922,848 | 4,531 | 16,026,246 | 276 | |
| South Carolina | 5 | 59,414 | 259 | 463,114 | 3,151 | 8,627,064 | 213 | |
| Tennessee | 31 | 39,548,346 | 455 | 530,722 | 5,465 | 13,178,616 | 193 | |
| GREAT LAKES | 811 | 1,458,700,938 | 8,501 | 7,250,942 | 62,338 | 241,662,188 | 305 | |
| Illinois | 183 | 206,559,744 | 2,424 | 1,740,902 | 8,718 | 27,065,690 | 254 | |
| Indiana | 77 | 57,437,148 | 765 | 723,403 | 9,723 | 36,270,493 | 292 | |
| Michigan | 213 | 238,340,356 | 1,667 | 1,308,211 | 11,515 | 38,987,574 | 271 | |
| Minnesota | 34 | 116,184,119 | 585 | 703,123 | 3,548 | 15,179,473 | 283 | |
| Ohio | 238 | 564,422,018 | 2,206 | 1,707,099 | 22,172 | 102,011,189 | 357 | |
| Wisconsin | 66 | 275,757,553 | 854 | 1,068,204 | 6,662 | 22,147,770 | 289 | |

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

Pension Insurance Data Book 1999

| Table S-31 (continued) PBGC Pension Data by State* and Region Single-Employer Program | | | | | | | | |
|---|-------|------------------|--------|--------------|---------|----------------------|--------------|--|
| STATE/REGION | - | LAIMS 75-1999 | | ERAGE | | BENEFITS PAI 1999 | D | |
| | | | i | | i _ | _ | Mean Monthly | |
| | Plans | Claims | Plans | Participants | Payees | Payments | Pension | |
| MIDWEST | 89 | \$153,544,214 | 1,587 | 1,879,498 | 9,259 | \$29,956,915 | \$254 | |
| Iowa | 28 | 86,290,540 | 443 | 381,984 | 5,764 | 19,165,408 | 254 | |
| Kansas | 19 | 28,451,228 | 234 | 368,463 | 684 | 2,911,436 | 334 | |
| Missouri | 36 | 31,387,877 | 628 | 811,293 | 2,342 | 6,281,461 | 227 | |
| Nebraska | 4 | 7,285,836 | 190 | 206,205 | 345 | 1,138,956 | 259 | |
| North Dakota | 2 | 128,733 | 54 | 57,466 | 67 | 208,161 | 217 | |
| South Dakota | 0 | 0 | 38 | 54,086 | 57 | 251,493 | 321 | |
| SOUTHWEST | 123 | 164,331,729 | 2,317 | 2,957,843 | 10,586 | 39,561,662 | 296 | |
| Arizona | 20 | 6,174,559 | 487 | 466,494 | 1,831 | 7,556,197 | 323 | |
| New Mexico | 6 | 10,377,511 | 131 | 145,356 | 585 | 2,331,149 | 313 | |
| Oklahoma | 15 | 39,607,621 | 265 | 297,474 | 1,130 | 3,548,662 | 244 | |
| Texas | 82 | 108,172,038 | 1,434 | 2,048,519 | 7,040 | 26,125,654 | 295 | |
| ROCKY MOUNTAIN | 35 | 204,221,409 | 809 | 1,044,540 | 5,007 | 29,093,046 | 454 | |
| Colorado | 12 | 186,889,425 | 366 | 378,604 | 2,751 | 20,692,082 | 582 | |
| Idaho | 6 | 12,554,525 | 76 | 108,173 | 646 | 1,869,808 | 226 | |
| Montana | 3 | 252,370 | 56 | 98,031 | 128 | 486,939 | 273 | |
| Nevada | 6 | 788,421 | 101 | 196,063 | 822 | 3,416,144 | 337 | |
| Utah | 7 | 3,024,648 | 181 | 182,541 | 568 | 2,286,918 | 306 | |
| Wyoming | 1 | 712,020 | 29 | 81,129 | 92 | 341,155 | 296 | |
| PACIFIC | 192 | 340,888,259 | 4,596 | 4,786,397 | 14,047 | 59,503,427 | 337 | |
| Alaska | 5 | 2,721,269 | 41 | 54,086 | 46 | 131,105 | 238 | |
| California | 139 | 278,725,051 | 3,568 | 3,441,000 | 10,728 | 46,109,628 | 343 | |
| Hawaii | 15 | 16,260,130 | 277 | 118,314 | 1,094 | 4,939,384 | 350 | |
| Oregon | 17 | 32,233,385 | 282 | 314,377 | 850 | 2,779,940 | 255 | |
| Washington | 16 | 10,948,424 | 428 | 858,620 | 1,329 | 5,543,371 | 333 | |
| PUERTO RICO | 12 | 10,764,177 | 124 | 66,712 | 1,575 | 5,213,043 | 273 | |
| U.S. TERRITORIES | 0 | 0 | ¦ 11 | 1,136 | 90 | 447,264 | 386 | |
| FOREIGN COUNTRIES | | _ | — | _ | 757 | 3,083,146 | 320 | |
| TOTAL | 2,775 | \$6,278,390,463 | 37,535 | 33,803,916 | 228,526 | \$900,911,522 | \$311 | |

Sources: PBGC Fiscal Year Closing File (9/30/99), Employee Benefits Supplement to the April 1993 Current Population Survey, PBGC Case Administration System, PBGC Premium Filings, PBGC Participant System (PRISM), and fiscal year calculations. Due to rounding of individual items, totals may not equal those in other tables. *Claims data by state of plan administration; benefits and coverage data by state of payee residence.

| PBGC Ma | Table S-32 ximum Guaranteed Benefits (19 Single-Employer Program | 88-2000) |
|-----------------------------|--|-----------------------------|
| Year of Plan Termination | Maximum Monthly Guarantee | Maximum Annual Guarantee |
| 1988 | \$1,909.09 | \$22,909.08 |
| 1989 | 2,028.41 | 24,340.92 |
| 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 |

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

The maximum guarantee applies to workers who retire at age 65 or later. Maximum guarantees are reduced 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.

| | Table S-33 | |
|---------------------------------------|---|---|
| PB | GC's Historic Premiu Single-Employer Pro | |
| For Plan Years Beginning | Flat Rate Premium | Variable Rate Premium |
| September 2, 1974 - December 31, 1977 | \$1.00 | _ |
| January 1, 1978 - December 31, 1985 | 2.60 | — |
| January 1, 1986 - December 31, 1987 | 8.50 | — |
| January 1, 1988 - December 31, 1990 | 16.00 | \$6 per \$1,000 of unfunded vested benefits (Maximum of \$34 per participant) |
| January 1, 1991 - June 30, 1994 | 19.00 | \$9 per \$1,000 of unfunded vested benefits (Maximum of \$53 per participant) |
| July 1, 1994 - June 30, 1995 | 19.00 | \$9 per \$1,000 of unfunded vested benefits (Maximum of \$53 per participant plus 20% of uncapped variable premium in excess of \$53 per participant) |
| July 1, 1995 - June 30, 1996 | 19.00 | \$9 per \$1,000 of unfunded vested benefits (Maximum of \$53 per participant plus 60% of uncapped variable premium in excess of \$53 per participant) |
| On or After July 1, 1996 | 19.00 | \$9 per \$1,000 of unfunded vested benefits (No maximum) |



Appendix M

Multiemployer Data Tables

| | | Table M-1 | |
|-------------|-------------------------|------------------------------|-------------------------------|
| Net Fin | ancial Position of PBC | GC's Multiemployer Prog | ram (1980-1999) |
| Fiscal Year | Assets (in millions) | Liabilities (in millions) | Net Position (in millions) |
| 1980 | \$21 | \$30 | -\$9 |
| 1981 | 28 | 29 | -1 |
| 1982 | 40 | 29 | 11 |
| 1983 | 52 | 46 | 6 |
| 1984 | 61 | 44 | 17 |
| 1985 | 78 | 52 | 27 |
| 1986 | 98 | 54 | 45 |
| 1987 | 114 | 45 | 68 |
| 1988 | 129 | 37 | 92 |
| 1989 | 161 | 37 | 123 |
| 1990 | 190 | 58 | 132 |
| 1991 | 238 | 75 | 163 |
| 1992 | 283 | 114 | 169 |
| 1993 | 407 | 131 | 276 |
| 1994 | 378 | 181 | 197 |
| 1995 | 477 | 285 | 192 |
| 1996 | 505 | 381 | 124 |
| 1997 | 596 | 377 | 219 |
| 1998 | 745 | 404 | 341 |
| 1999 | 692 | 493 | 199 |

Source: PBGC Annual Report (1980-1999). Due to rounding of individual items, rows may not add across.

| | | Table M-2 | | | | | | | | | |
|----------------|--|--------------------------------------|---|--|--|--|--|--|--|--|--|
| PBGC | PBGC Premium Revenue, Benefit Payments and Expenses (1980-1999) Multiemployer 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 | \$5 | \$4 | \$2 | -\$2 | | | | | | | |
| 1981 | 12 | 4 | 2 | 5 | | | | | | | |
| 1982 | 13 | 5 | 3 | 5 | | | | | | | |
| 1983 | 13 | 4 | 3 | 6 | | | | | | | |
| 1984 | 12 | 4 | 3 | 6 | | | | | | | |
| 1985 | 14 | 4 | 4 | 7 | | | | | | | |
| 1986 | 15 | 3 | 4 | 8 | | | | | | | |
| 1987 | 17 | 3 | 3 | 10 | | | | | | | |
| 1988 | 17 | 3 | 4 | 11 | | | | | | | |
| 1989 | 20 | 3 | 3 | 15 | | | | | | | |
| 1990 | 21 | 2 | 2 | 17 | | | | | | | |
| 1991 | 23 | 2 | * | 21 | | | | | | | |
| 1992 | 23 | 2 | * | 21 | | | | | | | |
| 1993 | 23 | 2 | * | 21 | | | | | | | |
| 1994 | 23 | 2 | * | 21 | | | | | | | |
| 1995 | 22 | 2 | * | 20 | | | | | | | |
| 1996 | 22 | 2 | * | 20 | | | | | | | |
| 1997 | 23 | 1 | * | 22 | | | | | | | |
| 1998 | 23 | 1 | * | 22 | | | | | | | |
| 1999 | 23 | 1 | * | 22 | | | | | | | |

Source: PBGC Annual Report (1980-1999). * Less than \$500,000. Due to aggregation and rounding of individual items, figures may not add up to totals in other tables or add up across columns.

| | | Table M-3 | | | | | | | |
|---|----------------|-------------------------------|----------------------------|---------------------------|--|--|--|--|--|
| PBGC Payees and Benefit Payments (1980-1999) Multiemployer Program | | | | | | | | | |
| PERIODIC PENSION PAYMENTS | | | | | | | | | |
| Fiscal Year | Payees in Year | Total (in millions) | Average Monthly Payment | Median Monthly Payment | | | | | |
| 1980 | 4,100 | \$4 | \$77 | \$45 | | | | | |
| 1981 | 4,000 | 4 | 83 | 45 | | | | | |
| 1982 | 3,800 | 5 | 86 | 45 | | | | | |
| 1983 | 3,500 | 4 | 89 | 45 | | | | | |
| 1984 | 3,400 | 4 | 93 | 45 | | | | | |
| 1985 | 3,100 | 4 | 91 | 45 | | | | | |
| 1986 | 3,250 | 3 | 91 | 45 | | | | | |
| 1987 | 2,800 | 3 | 92 | 45 | | | | | |
| 1988 | 2,500 | 3 | 93 | 45 | | | | | |
| 1989 | 2,310 | 3 | 95 | 45 | | | | | |
| 1990 | 2,170 | 2 | 97 | 50 | | | | | |
| 1991 | 1,990 | 2 | 98 | 51 | | | | | |
| 1992 | 1,760 | 2 | 98 | 52 | | | | | |
| 1993 | 1,590 | 2 | 99 | 53 | | | | | |
| 1994 | 1,420 | 2 | 102 | 55 | | | | | |
| 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 | | | | | |

Sources: PBGC Participant System (PRISM), fiscal year calculations, PBGC Management Reports and PBGC Benefit Payment Reports. Payments made on a quarterly, semi-annual, or annual basis were converted to their monthly equivalent.

| | | | | Table M- | 4 | | | |
|------|--|--|--|--|--|--|--|---|
| | | PBG | C-Covered Mul | l Plan Parti tiemployer | icipants (19 Program | 80-1999) | | |
| Year | Total Covered Participants (in thousands) | In Plans with 10,000+ Participants (in thousands) | In Plans with 5,000-9,999 Participants (in thousands) | In Plans with 2,500-4,999 Participants (in thousands) | In Plans with 1,000-2,499 Participants (in thousands) | In Plans with 500-999 Participants (in thousands) | In Plans with 250-499 Participants (in thousands) | In Plans with <250 Participants (in thousands) |
| 1980 | 7,997 | 5,072 | 925 | 751 | 731 | 299 | 147 | 71 |
| 1981 | 8,150 | 5,151 | 960 | 781 | 759 | 281 | 145 | 74 |
| 1982 | 8,475 | 5,404 | 1,026 | 776 | 746 | 305 | 145 | 72 |
| 1983 | 8,384 | 5,438 | 934 | 774 | 727 | 302 | 139 | 71 |
| 1984 | 8,059 | 5,119 | 973 | 739 | 719 | 306 | 136 | 67 |
| 1985 | 8,209 | 5,376 | 857 | 761 | 729 | 283 | 136 | 66 |
| 1986 | 8,154 | 5,316 | 879 | 746 | 731 | 288 | 129 | 64 |
| 1987 | 8,256 | 5,443 | 908 | 718 | 709 | 293 | 124 | 61 |
| 1988 | 8,294 | 5,453 | 917 | 739 | 704 | 295 | 127 | 58 |
| 1989 | 8,426 | 5,557 | 918 | 767 | 702 | 302 | 124 | 56 |
| 1990 | 8,534 | 5,731 | 891 | 757 | 695 | 290 | 121 | 48 |
| 1991 | 8,710 | 5,996 | 874 | 731 | 665 | 285 | 110 | 47 |
| 1992 | 8,780 | 6,105 | 830 | 734 | 672 | 276 | 115 | 49 |
| 1993 | 8,657 | 5,990 | 869 | 711 | 657 | 270 | 111 | 49 |
| 1994 | 8,559 | 5,931 | 861 | 703 | 639 | 263 | 112 | 50 |
| 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 | 8,824 | 6,166 | 930 | 671 | 651 | 259 | 107 | 40 |
| 1999 | 8,957 | 6,339 | 914 | 659 | 655 | 252 | 101 | 37 |

Source: PBGC Premium Filings, various years. 1999 figures are estimates from PBGC internal calculations. 1995-1997 data have been revised and 1998 estimates reported last year have been updated to reflect actual premium filings.

| | | | | Table M- | 5 | | | |
|------|---------------------------|--|--|--|--|--|--|---|
| | | | | sured Plan iemployer | s (1980-19 Program | 99) | | |
| Year | Total Insured Plans | Insured Plans with 10,000+ 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 <250 Participants |
| 1980 | 2,244 | 120 | 131 | 211 | 452 | 420 | 404 | 506 |
| 1981 | 2,272 | 121 | 135 | 221 | 479 | 392 | 399 | 525 |
| 1982 | 2,289 | 125 | 142 | 218 | 468 | 420 | 396 | 520 |
| 1983 | 2,285 | 134 | 132 | 218 | 454 | 418 | 385 | 544 |
| 1984 | 2,223 | 127 | 138 | 209 | 451 | 430 | 381 | 487 |
| 1985 | 2,188 | 137 | 124 | 216 | 459 | 402 | 376 | 474 |
| 1986 | 2,153 | 135 | 127 | 213 | 461 | 405 | 362 | 450 |
| 1987 | 2,098 | 139 | 131 | 205 | 438 | 408 | 344 | 433 |
| 1988 | 2,081 | 137 | 133 | 213 | 436 | 409 | 351 | 402 |
| 1989 | 2,060 | 137 | 131 | 217 | 430 | 417 | 337 | 391 |
| 1990 | 1,983 | 140 | 127 | 214 | 428 | 402 | 332 | 340 |
| 1991 | 1,926 | 145 | 127 | 207 | 414 | 401 | 302 | 330 |
| 1992 | 1,936 | 150 | 121 | 210 | 418 | 386 | 310 | 341 |
| 1993 | 1,900 | 143 | 126 | 204 | 412 | 378 | 302 | 335 |
| 1994 | 1,880 | 141 | 125 | 202 | 403 | 369 | 302 | 338 |
| 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 | 1,802 | 146 | 136 | 192 | 401 | 357 | 287 | 283 |
| 1999 | 1,773 | 148 | 134 | 187 | 397 | 346 | 273 | 288 |

Source: PBGC Premium Filings, various years. 1999 figures are estimates from PBGC internal calculations. 1995-1997 data have been revised and 1998 estimates reported last year have been updated to reflect actual premium filings.

| | Tabl | e M-6 | | | | |
|--|------------|------------------------------|-----------------|---------------|--|--|
| PBGC-Insured | | rticipants by yer Program | Industry (1999) | | | |
| Industry | Covered Pa | articipants | Insure | Insured Plans | | |
| AGRICULTURE | 18,852 | 0.2% | 12 | 0.7% | | |
| MINING | 193,803 | 2.2% | 7 | 0.4% | | |
| CONSTRUCTION | 3,078,597 | 34.4% | 987 | 55.7% | | |
| General Contracting | 499,029 | 5.6% | 102 | 5.7% | | |
| Heavy Construction | 389,913 | 4.4% | 61 | 3.4% | | |
| Plumbing, Heating and Air Conditioning | 316,394 | 3.5% | 180 | 10.1% | | |
| Electrical Work | 644,322 | 7.2% | 132 | 7.5% | | |
| Masonry, Brick and Stonework | 150,706 | 1.7% | 142 | 8.0% | | |
| Carpentry | 397,411 | 4.4% | 99 | 5.6% | | |
| Roofing and Sheet Metal Work | 242,262 | 2.7% | 74 | 4.2% | | |
| Other Construction | 438,560 | 4.9% | 197 | 11.1% | | |
| MANUFACTURING | 1,345,944 | 15.0% | 216 | 12.2% | | |
| Food and Tobacco Products | 233,315 | 2.6% | 33 | 1.8% | | |
| Apparel and Textile Products | 326,917 | 3.6% | 17 | 1.0% | | |
| Paper and Allied Products | 70,720 | 0.8% | 5 | 0.3% | | |
| Printing and Publishing | 218,122 | 2.4% | 46 | 2.6% | | |
| Furniture and Fixtures | 63,369 | 0.7% | 5 | 0.3% | | |
| Machinery and Computer Equipment | 175,126 | 2.0% | 7 | 0.4% | | |
| Electrical and Electronic Equipment | 44,335 | 0.5% | 9 | 0.5% | | |
| Other Manufacturing | 214,040 | 2.4% | 94 | 5.3% | | |
| TRANSPORTATION AND PUBLIC UTILITIES | 1,463,895 | 16.3% | 143 | 8.1% | | |
| Trucking | 1,260,305 | 14.1% | 69 | 3.9% | | |
| Water Transportation | 115,833 | 1.3% | 42 | 2.4% | | |
| Other Transportation | 49,300 | 0.6% | 25 | 1.4% | | |
| Public Utilities | 38,457 | 0.4% | 7 | 0.4% | | |
| WHOLESALE TRADE | 229,672 | 2.6% | 55 | 3.1% | | |
| RETAIL TRADE | 1,255,818 | 14.0% | 119 | 6.7% | | |
| FINANCE, INSURANCE, AND REAL ESTATE | 18,210 | 0.2% | 4 | 0.2% | | |
| SERVICES | 1,352,194 | 15.1% | 230 | 13.0% | | |
| TOTAL | 8,956,985 | 100.0% | 1,773 | 100.0% | | |

Source: PBGC Premium Filings. Due to aggregation and rounding of individual items, totals may not add up to totals in other tables and percentages may not add up to 100 percent.

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| | Table M-7 | | | | | | | | |
|---|------------------------|-------------------------|----------------------------------|--|--|--|--|--|--|
| PBGC-Covered Plan Participants by Participant Status (1980-1997) Multiemployer Program | | | | | | | | | |
| Year | Active Participants | Retired Participants | Separated Vested Participants | | | | | | |
| 1980 | 75.9% | 17.7% | 6.5% | | | | | | |
| 1981 | 73.7% | 19.1% | 7.3% | | | | | | |
| 1982 | 72.9% | 18.6% | 8.6% | | | | | | |
| 1983 | 68.6% | 21.7% | 9.7% | | | | | | |
| 1984 | 66.5% | 23.1% | 10.4% | | | | | | |
| 1985 | 66.1% | 22.6% | 11.4% | | | | | | |
| 1986 | 63.7% | 23.2% | 13.1% | | | | | | |
| 1987 | 62.3% | 24.1% | 13.6% | | | | | | |
| 1988 | 61.1% | 24.5% | 14.4% | | | | | | |
| 1989 | 61.3% | 24.6% | 14.1% | | | | | | |
| 1990 | 58.6% | 25.2% | 16.2% | | | | | | |
| 1991 | 57.2% | 26.3% | 16.5% | | | | | | |
| 1992 | 54.6% | 27.6% | 17.8% | | | | | | |
| 1993 | 53.5% | 28.0% | 18.4% | | | | | | |
| 1994 | 53.4% | 28.0% | 18.6% | | | | | | |
| 1995 | 51.5% | 29.1% | 19.4% | | | | | | |
| 1996 | 51.3% | 29.2% | 19.6% | | | | | | |
| 1997 | 51.1% | 29.1% | 19.8% | | | | | | |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. 1997 figures are estimates from PBGC internal calculations. 1996 estimates reported last year have been updated to reflect actual Form 5500 filings. Due to rounding of individual items, rows may not add up to 100 percent.

| | | Table M-8 | | | | | | | | |
|----------------------|--|------------------------------|------------------|-------------------------------|------------------------------|---------------|--|--|--|--|
| | Funding of PBGC-Insured Plans (1980-1997) 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% | | | | |
| 1981 | 46,342 | 53,282 | 87% | 13,068 | 6,129 | 9.75% | | | | |
| 1982 | 55,073 | 57,477 | 96% | 11,560 | 9,156 | 10.75% | | | | |
| 1983 | 64,202 | 64,410 | 100% | 11,221 | 11,013 | 9.75% | | | | |
| 1984 | 73,932 | 69,865 | 106% | 10,282 | 14,350 | 9.75% | | | | |
| 1985 | 88,182 | 75,942 | 116% | 6,432 | 18,672 | 9.75% | | | | |
| 1986 | 107,259 | 93,436 | 115% | 7,687 | 21,511 | 8.50% | | | | |
| 1987 | 121,080 | 111,259 | 109% | 10,079 | 19,900 | 7.50% | | | | |
| 1988 | 126,963 | 109,882 | 116% | 8,240 | 25,321 | 8.25% | | | | |
| 1989 | 135,654 | 121,915 | 111% | 8,635 | 22,374 | 7.75% | | | | |
| 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% | | | | |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| | Table M-9 | | | | | | | | | | |
|----------------------|--|------------------------------|-------------------------------|------------------|---------------|--|--|--|--|--|--|
| | Funding of Underfunded PBGC-Insured Plans (1980-1997) 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% | | | | | | |
| 1981 | 25,599 | 38,668 | 13,068 | 66% | 9.75% | | | | | | |
| 1982 | 22,301 | 33,861 | 11,560 | 66% | 10.75% | | | | | | |
| 1983 | 27,287 | 38,508 | 11,221 | 71% | 9.75% | | | | | | |
| 1984 | 22,515 | 32,798 | 10,282 | 69% | 9.75% | | | | | | |
| 1985 | 22,813 | 29,246 | 6,432 | 78% | 9.75% | | | | | | |
| 1986 | 27,035 | 34,723 | 7,687 | 78% | 8.50% | | | | | | |
| 1987 | 29,782 | 39,861 | 10,079 | 75% | 7.50% | | | | | | |
| 1988 | 29,802 | 38,042 | 8,240 | 78% | 8.25% | | | | | | |
| 1989 | 34,845 | 43,480 | 8,635 | 80% | 7.75% | | | | | | |
| 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% | | | | | | |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| | | Ta | able M-10 | | | | | |
|---|-------------------------|------------------------------|------------------------------|------------------|---------------|--|--|--|
| Funding of Overfunded PBGC-Insured Plans (1980-1997) 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% | | | |
| 1981 | 20,743 | 14,614 | 6,129 | 142% | 9.75% | | | |
| 1982 | 32,772 | 23,615 | 9,156 | 139% | 10.75% | | | |
| 1983 | 36,915 | 25,902 | 11,013 | 143% | 9.75% | | | |
| 1984 | 51,417 | 37,067 | 14,350 | 139% | 9.75% | | | |
| 1985 | 65,368 | 46,697 | 18,672 | 140% | 9.75% | | | |
| 1986 | 80,223 | 58,713 | 21,511 | 137% | 8.50% | | | |
| 1987 | 91,298 | 71,398 | 19,900 | 128% | 7.50% | | | |
| 1988 | 97,161 | 71,840 | 25,321 | 135% | 8.25% | | | |
| 1989 | 100,809 | 78,435 | 22,374 | 129% | 7.75% | | | |
| 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% | | | |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. * Vested liabilities have been adjusted to an interest 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 and GAM-83 for 1993-1997.

| | Concentration of Und | | | | lans (1990 | D-1997) | |
|----------------------|--|--|-------|--|------------|--|-------|
| 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% |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. Due to rounding of individual items, percentages may not add up to 100 percent. Vested liabilities have been adjusted to an interest 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 1990-1992 and GAM-83 for 1993-1997.

| Partici | pants and | Fundi | | BGC- | le M-12 Insured oyer P | | | ding Ra | ntio (1997) |) |
|---------------|-----------|---------|-----|----------|------------------------------|---|----------|----------------------|-------------|----------------------|
| Funding Ratio | | cipants | | | abilities | | | funding nillions) | | funding millions) |
| Under 40% | 101 | 1.2% | 1 | \$2,136 | 0.7% | | \$1,486 | 4.6% | | _ |
| 40% - 49% | 14 | 0.2% | | 405 | 0.1% | | 226 | 0.7% | | _ |
| 50% - 59% | 305 | 3.5% | | 8,163 | 2.8% | 1 | 3,679 | 11.3% | | _ |
| 60% - 69% | 204 | 2.3% | | 9,868 | 3.4% | | 3,429 | 10.5% | | _ |
| 70% - 79% | 1,157 | 13.2% | 1 | 45,131 | 15.7% | | 12,367 | 38.0% | | |
| 80% - 89% | 1,567 | 17.9% | i i | 50,287 | 17.5% | ł | 7,405 | 22.8% | | — |
| 90% - 99% | 1,984 | 22.7% | I | 69,193 | 24.1% | 1 | 3,956 | 12.2% | ¦ — | — |
| 100% - 109% | 1,659 | 19.0% | i i | 57,278 | 19.9% | i | — | _ | \$2,709 | 20.1% |
| 110% - 119% | 940 | 10.8% | i | 25,034 | 8.7% | İ | _ | | 3,633 | 27.0% |
| 120% - 129% | 347 | 4.0% | i | 8,374 | 2.9% | i | _ | | 2,000 | 14.9% |
| 130% - 139% | 311 | 3.6% | i | 7,917 | 2.8% | i | _ | | 2,755 | 20.5% |
| 140% - 149% | 54 | 0.6% | İ | 1,187 | 0.4% | İ | _ | _ | 554 | 4.1% |
| 150% and Over | 97 | 1.1% | İ | 2,596 | 0.9% | İ | _ | _ | 1,800 | 13.4% |
| TOTAL | 8,740 | 100.0% | | 5287,569 | 100.0% | i | \$32,549 | 100.0% | \$13,452 | 100.0% |

Source: Internal Revenue Service Form 5500 Series Filings for multiemployer plans with 100 or more participants. Vested liabilities have been adjusted to an interest rate that, along with the GAM-83 mortality table, reflects the cost to purchase an annuity at the beginning of 1997.

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