Colorado Workers' Compensation 2003 Closed Claim Study

The 2003 Closed Claim Study has reviewed approximately 8,550 closed claims with permanency from 49 commercial carriers and from 62 self insurers. This includes approximately 348 new claims involving permanency that closed between July 1, 2001 and June 30, 2002 as well as revised information for those claims that were already in the database. This sample represents approximately 82% of the commercial workers compensation market as well as approximately 82% of the self-insurance market.

The study sets forth the following conclusions:

- A small upward claim cost trend was identified for indemnity, medical and total costs
- Use of Claimant Attorneys continues to be significantly associated with higher indemnity, medical and total costs
- Claims closed by settlement are more expensive than claims closed by admission, by order or by other method

The accident year of the claim was significantly associated with higher costs for medical costs, indemnity costs and for total costs as it was in last year's study. The rate of increase, 2.6% for indemnity, 3.3% for medical and 3.4% for total, is again considered small. If there is not a trend in the frequency of claims (frequency trends are not examined in the study because exposure information is not available), the claim cost trend would need to exceed the trend in wages to necessitate an increase in workers compensation rates.

As in prior studies, use of claimant attorneys continued to be significantly associated with higher indemnity, medical, and total costs. However, this does not necessarily imply a cause and effect relationship. It is possible that the claimant attorney is present in the larger claims that have a greater opportunity for dispute due to their size. The study did not capture claimant attorney costs. Therefore it cannot be determined whether or not claimant attorneys are associated with higher or lower net claimant awards.

Claims closed by settlement are more expensive than claims closed by admission, by order or by other method. This is not unexpected as claims with settlement are likely to be complicated and disputed.

This is the first year that marital status has shown a significant impact on any cost. Married claimants had significant lower medical costs and total costs.

The study provides many comparisons of the information on the new claims collected in the 2003 study to the information collected in the two earlier studies. In addition, the study provides detailed charts, graphs, and tables of the data.



COLORADO WORKERS COMPENSATION CLOSED CLAIM STUDY 2003



State of Colorado Department of Regulatory Agencies Division of Insurance

COLORADO WORKERS COMPENSATION CLOSED CLAIM STUDY 2003

Prepared by:

A MILLIMAN GLOBAL FIRM



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January 31, 2003

COLORADO WORKERS' COMPENSATION CLOSED CLAIM STUDY 2003 EXECUTIVE SUMMARY

INTRODUCTION

Colorado Senate Bill 91-218 (SB 218) was enacted by the Colorado General Assembly July 1, 1991 in response to widespread concern about the spiraling cost of workers compensation insurance. Among the many changes implemented by SB 218 were improvements in workers' compensation data collection and reporting that would lead to a better understanding of the costs that are driving the system.

The Division of Insurance identified the data to be collected by the National Council on Compensation Insurance (NCCI) from insurance carriers. Senate Bill 109, effective April 24, 1997, requires the Executive Director of the Department of Labor and Employment to collect similar information from self insurers. In general, the required elements include:

- Basic claim information about the accident, claimant, employer, and claim administration details;
- Benefit payment information such as medical, indemnity, vocational rehabilitation, and expenses; and
- Legal information such as claimant attorney involvement.

Milliman USA, Inc. (Milliman) was engaged by the Division of Insurance to conduct the 2003 Colorado Workers' Compensation Closed Claim Study (2003 study). The purpose of this study is threefold:

- To search for and obtain cost drivers associated with claims involving permanency;
- 2. To compare the results of this study with the results of the prior studies; and
- To summarize and present the data collected (Cross-Tabulation Analysis).

The objective of this executive summary is to give an overview of the information contained in the report. It will summarize the statistically significant conclusions of the report regarding those cost drivers that affect the amount of a workers' compensation claim. This executive summary will also highlight the noteworthy differences between the 2003 study and the prior two studies, and it will present several data cross-tabulations. The report that supports this summary shows more extensive comparisons and greater detail.

THE 2003 STUDY

The 2003 study continues to build upon the data collected in the earlier studies. A total sample of 8,550 claims involving permanency are now included (up from 7,411 last year). The carriers represented in the sample are Pinnacol Assurance (approximately 47% of the commercial market), 49 commercial insurers (approximately 35% of the commercial market), and 62 self insurers (approximately 82% of self insurer market). Up until 1999, Pinnacol Assurance was known as CCIA (Colorado Compensation Insurance Authority).

For the commercial carriers and Pinnacol Assurance we relied on Detailed Claim Information (DCI) collected by NCCI along with supplemental information that we collected from the carriers on the same claims. The DCI is a continuing random sample of claims that began with accidents on or after January 1, 1991. We obtained an electronic copy of this database from NCCI as of August 2002.

For self insurer claims, we relied on data provided by the Colorado Division of Workers' Compensation (DWC). This data was also supplemented by data we collected directly from self insurers on the same claims.

For the comparison section of this study, we isolated the 134 DCI claims, and 214 self insurer claims that involved permanency and

were closed between July 1, 2001 and June 30, 2002.

For the regression analysis in this study, we utilized all claims from the prior studies since 1996 along with this year's claims. We then eliminated 1,421 claims with unknown values for any of the variables used in the regressions. This produced a total of 7,129 claims used in the regression analysis.

The chart numbers used in this executive summary are from the report. They will not necessarily be consecutively numbered in this summary.

CONCLUSIONS

- A small upward claim cost trend was identified for indemnity, medical and total costs.
- Use of claimant attorneys continues to be significantly associated with higher indemnity, medical, and total costs.
- Claims closed by settlement are more expensive than claims closed by other methods.

In performing the regression analysis, it was found that the accident year of the claim was significantly associated with higher indemnity, medical and total costs. The rate of increase (2.6% for indemnity, 3.3% for medical and 3.4% for total) is considered small. Since the exposure base for workers' compensation is payroll, it also increases with wage trend. Absent a trend in the frequency of claims, only a claim cost trend which exceeds the wage trend will lead to increasing workers' compensation rates. This study examined only workers' compensation claims, and not the exposures underlying those claims. Therefore, there is no information from this study to test whether there is a frequency trend (positive or negative).

A claim cost trend was first found in the 2000 study for medical and total costs. An indemnity

claim cost trend was first found in the 2001 study.

As in prior studies, claimant attorneys continued to be associated with the higher indemnity, medical, and total claim costs, and this result was significant. However, this does not necessarily imply a cause and effect relationship. Although we did control for the severity of an injury through other variables, it is possible that the presence of a claimant attorney is another indicator of the severity of a claim as larger claims may have greater opportunity for a dispute, due to their complexity. Note that the data analyzed in this study did not capture claimant attorney costs. We are therefore unable to conclude whether or not claimant attorneys are associated with higher or lower net claimant awards.

A "significant" association implies that the statistical model indicated a 5% chance or less that the association could have been caused by randomness alone.

REGRESSION RESULTS

Cost Drivers Affecting the Amount of a Workers' Compensation Claim

A cross-tabulation analysis is informative, but it does not establish whether a relationship is statistically significant. A multivariate analysis is used for this purpose, that is, an analysis that looks at the pattern of relationships among several variables simultaneously.

Multivariate statistical analysis was performed to determine the marginal impact of claim characteristics on workers' compensation costs. Least squares regression was used to model indemnity, medical, and total costs as a function of claim characteristics. This technique allows us to identify those characteristics that have a significant relationship with the cost of a workers' compensation claim.

The following characteristics were significantly associated with *higher* workers' compensation costs for the identified categories of costs:

- Higher Pre-Injury Wage Indemnity, Medical and Total Costs
- Accident Year Indemnity, Medical and Total Costs
- Claimant is Male Indemnity, Medical and Total Costs
- Claimant Attorney Involvement -Indemnity, Medical and Total Costs
- Self Insurer Claim Indemnity, Medical and Total Costs

- Greater Number of Days to Close -Indemnity, Medical and Total Costs
- Vocational Rehabilitation Used -Indemnity, Medical, and Total Costs
- Hospital Used Indemnity, Medical, and Total Costs
- Surgery Used Indemnity, Medical, and Total Costs
- Closure by Negotiated Settlement -Indemnity, Medical and Total Costs
- Permanent Total Claim Indemnity and Total Costs
- Fatal Claim- Indemnity and Total Costs
- Case Manager Involved Indemnity, Medical and Total Costs
- Utilization Review Involved- Medical and Total Costs
- Chiropractor Used- Indemnity, Medical and Total Costs
- Physical Therapy Used Indemnity, Medical Costs and Total Costs
- Greater Number of Days to Report -Indemnity, Medical and Total Costs

The following characteristics were significantly associated with *lower* workers' compensation costs for the identified categories of cost:

- Greater Lag to First Indemnity Payment -Indemnity, Medical, and Total Costs
- Closure by Admission Indemnity and Total Costs

- Permanent Partial Schedule Claim -Indemnity and Total Costs
- Fatal Claim Medical Costs
- Other Permanent Benefit Types -Indemnity, Medical, and Total Costs
- Early Reporting Phone Number Used -Indemnity Costs
- Claimant is Married Medical and Total Costs

The regression model also tested the following characteristics, and did not find significant associations with costs:

- Claimant Age
- Employer Designated Provider
- Pinnacol Assurance Claim

If a characteristic is listed as significant for one type of costs, but not another, this means that there was no significant association with the type of cost not listed. For example, closures by admission were found to be significantly associated with lower indemnity costs and total costs, but were not significantly associated with medical costs.

Note that while the indemnity and total costs were significantly higher for fatal claims, the medical costs were significantly lower than the base group (permanent partial unscheduled claims). It is not unexpected that the medical portion of costs for fatal claims are lower than the medical costs for permanent partial unscheduled claims, while the total costs are higher.

It is important to point out the difference between association and cause and effect. Regression techniques can only determine associations; they cannot determine cause and effect. For example, a hospital stay was found to be significantly associated with higher indemnity costs. It is likely that the more serious injuries are more likely to require a hospital stay and consequently would involve higher indemnity costs. It does not imply that the hospital stay caused the higher indemnity costs.

This is the first year that marital status shows a significant impact on any costs.

Additional variables were included primarily as controls. These were body part and nature of injury groupings, and industry groupings based on SIC code (Standard Industry Classification).

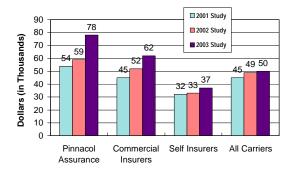
COMPARISONS

Average Costs

Chart 1a compares the average combined (indemnity and medical) claims cost of the latest three studies. Pinnacol Assurance generally shows the highest average costs, followed by the commercial insurers and then the self insurers.

The reader will note that in the regression section the report states that self-insured claims are significantly associated with *higher* costs (medical, indemnity and total) while in chart 1A the self insured costs are *lower* than the other entities. In the regressions the length to close variable has a large explanatory power. Thus, the implication for self-insurers is that they may pay more per day, but claims close more quickly so that average combined costs are less.

Chart 1a - Average Combined Claim Cost



Claim Size

Chart 2 displays the distributions by size of claim as both percent of claims and percent of dollars for each of the studies. Both the percentage of claims and the percentage of dollars in the \$100,000-\$125,000 range have been increasing since the 2001 study.

Chart 2a - Distribution by Claim Size

Incremental Count Distribution (Percent)						
Excluding Claims Over \$100,000						
Size of Claim	2001 Study 2002 Study 2003 S					
Under 10,000	16.3	12.4	12.6			
10,001 - 20,000	22.4	19.6	17.7			
20,001 - 30,000	17.3	16.5	13.5			
30,001 - 40,000	9.2	10.3	11.4			
40,001 - 50,000	9.2	9.3	11.1			
50,001 - 60,000	4.1	7.2	7.5			
60,001 - 70,000	4.1	5.2	6.6			
70,001 - 80,000	3.1	4.1	3.6			
80,001 - 90,000	2.0	3.1	4.2			
90,001 - 100,000	2.0	2.1	2.7			
100,001 - 125,000	3.1	5.2	5.4			
Over 125,000	8.2	6.2	8.1			

Chart 2b - Distribution by Claim Size

Incremental Dollar Distribution (Percent)						
Excluding Claims Over \$100,000						
Size of Claim 2001 Study 2002 Study 2003 Study						
Under 10,000	1.1	1.1	1.5			
10,001 - 20,000	7.4	6.3	5.1			
20,001 - 30,000	9.6	8.4	6.5			
30,001 - 40,000	6.4	7.4	7.9			
40,001 - 50,000	9.6	8.4	10.1			
50,001 - 60,000	5.3	7.4	8.1			
60,001 - 70,000	5.3	7.4	8.5			
70,001 - 80,000	5.3	6.3	5.4			
80,001 - 90,000	6.4	5.3	7.0			
90,001 - 100,000	4.3	4.2	5.0			
100,001 - 125,000	6.4	11.6	11.8			
Over 125,000	38.3	31.6	30.0			

Claimant Attorney Involvement

Attorney involvement in the studies since 1996 is defined as the use of a claimant attorney. The percent of claims closing with claimant attorney involvement has stayed at about 40% for the last three studies.

Chart 5d shows the comparison of average claim costs by attorney involvement. The pattern shown in prior studies is continued this year. That is, claims involving an attorney are more expensive.

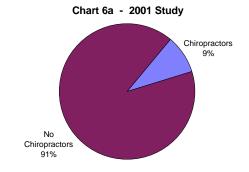
Chart 5d - Comparison of Average Claim Costs

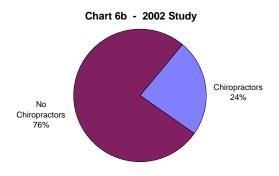
	2001	2002	2003
	Study	Study	Study
Pinnacol Assurance			
Claimant Attorney	\$81,205	\$82,692	\$89,088
No Claimant Attorney	27,291	31,576	59,664
Commercial Insurers			
Claimant Attorney	\$48,875	\$60,328	\$68,404
No Claimant Attorney	46,033	53,079	64,976
Self Insurers			
Claimant Attorney	\$59,624	\$58,851	\$59,831
No Claimant Attorney	21,264	21,811	27,037
All Carriers			
Claimant Attorney	\$72,829	\$72,597	\$71,319
No Claimant Attorney	31,228	35,830	38,178

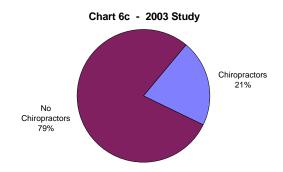
Chiropractor Involvement

As shown in Charts 6a to 6c, the percent of claims with chiropractors is down slightly from last year's study. In the 2002 study this percentage had more than doubled from the 2001 study.

The costs of chiropractor claims are addressed in the regression section where total medical costs are taken into account. This allows the incorporation of all the medical services that a chiropractor might provide. A comparison of the average cost of a chiropractor to the average cost of another medical provider might not consider all these services.





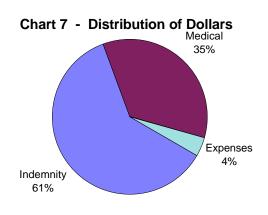


CROSS TABULATION RESULTS

Averages are shown in this report for descriptive purposes only; they demonstrate neither a correlation nor a cause and effect relationship between variables. The averages help the reader obtain a general view of the data. "Total cost" in this section refers to the sum of indemnity (including lump sum payments), medical, vocational rehabilitation, and loss adjustment expenses. Since the definition of total cost in the Comparisons section above did not include the vocational rehabilitation and expense values, there will be slight differences between the results in this section and the results in the Comparisons section.

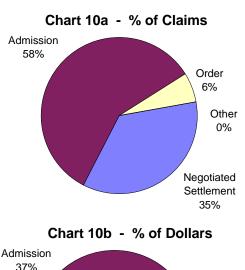
Total Cost

The total cost in the sample of new claims was approximately \$18 million. The distribution of costs by type are shown in Chart 7.



Claims and Costs by Method of Closure

Method of closure is categorized as negotiated settlement, admission of liability, order, or other. The distribution of claims in this year's study shows a slightly lower level of claims closed by negotiated settlement, and a slightly higher percent of claims closed by admission from the prior two studies. Chart 10a shows that, of the claims where method of closure was coded, 58% closed with an admission, 35% closed with a negotiated settlement, and 6% closed by an order. Chart 10b shows that claims closed by admission represented 37% of total cost, claims closed by negotiated settlement represented 53% of total cost, and claims closed by an order represented 8% of total cost.



The average total cost of claims closed by negotiated settlement continues to be approximately two and one half times the cost of claims closed by admission.

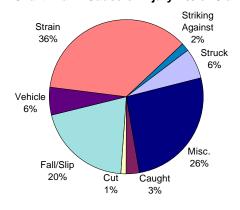
Chart 10c - Method of Closure

	Number Dollar Av		Average
Method of Closure	of Claims	Cost of Claims	Cost of Claims
Negotiated Settlement	122	\$9,600,698	\$78,694
Admission	201	\$6,695,914	\$33,313
Order	21	\$1,404,840	\$66,897
Other	1	\$129,932	\$129,932
Not Reported	3	\$193,789	\$64,596
Totals/Average	348	\$18,025,173	\$51,796

Claims and Costs by Cause of Injury

The two most common causes of injury observed were strain and fall/slip. Chart 11a shows that 36% of the injuries in the sample were caused by a strain and 20% were caused by a fall or slip.

Chart 11a - Cause of Injury - % of Claims



Correspondingly, the causes of injury representing the largest proportion of total costs were strain and fall/slip. Chart 11b shows that 38% of the total dollars included in the sample were from injuries caused by strain and 24% were from injuries caused by a fall or slip.

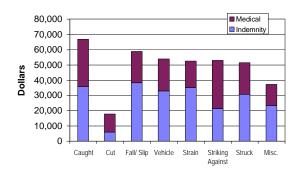
Chart 11b - Cause of Injury - % of Dollars
Striking
Against
38%
2% Struck
7%
Misc.

Vehicle 7% Caught 4%

The average indemnity plus medical costs were

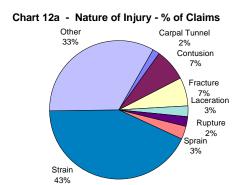
The average indemnity plus medical costs were highest for injuries in the "caught in or between" category, followed closely by most other categories.

Chart 11c - Cause of Injury
Average Cost for Indemnity & Medical

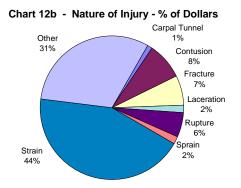


Claims and Costs by Nature of Injury

The most common natures of injury, based on percent of claims, were strain (43%), fracture (7%) and contusion (7%). Carpal Tunnel Syndrome represented approximately 2% of the claims in the study. The category of "other" shown on the charts below not only includes the "all other" that was coded, but also contains the classes that each had less than 2% of the claims sampled. These included such natures of injury as amputation, inflammation, and puncture.

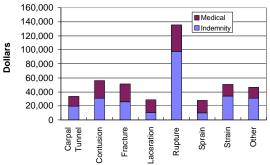


The natures of injury representing the largest proportion of total cost were strain (44%), fracture (7%) and contusion (8%). Carpal Tunnel Syndrome represented less than 2% of the dollars in the study.



Among the natures of injury with greater than 2% of claims, the average medical plus indemnity costs were higher by far for ruptures.

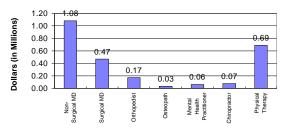
Chart 12c - Nature of Injury
Average Cost for Indemnity & Medical



Components of Medical Costs

The distribution of charges by type of doctor is broken down in chart 17b.

Chart 17b - Distribution of Charges by Type of Doctor



Payments to physical therapists appeared in 87% of claims and accounted for 11% of the total medical costs. Payments to chiropractors appeared in 21% of the claims and accounted for 1% of the total medical costs (see Table 17 in Appendix C).

Charts 18a and 18b show that in 92% of the claims as well as 92% of the dollars, the employer designated the medical provider for the claimant. For the remaining claims, the employer did not designate or the designation was unknown.

Chart 18a - Designator of Medical Provider % of Medical Claims

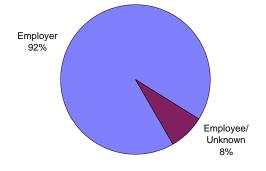
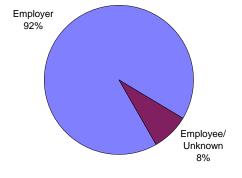


Chart 18b - Designator of Medical Provider % of Medical Dollars



Managed Care

In this study, a claim is considered a managed care claim if one or more of the following parameters is present:

- An 800 telephone number for early reporting
- A Case Manager
- A network of doctors as in a PPO or an HMO
- Utilization Review, either prospective or retrospective

Managed care claims represent 91% of the total number of claims. Managed care was used for all of the Pinnacol Assurance claims.

LIMITATIONS

In preparing this report, we relied upon data from a variety of sources. These sources included the DCI data collected by NCCI, self insurer data collected by the Colorado Department of Labor, and supplemental information collected by Milliman from each of the participants. While we did review the data for reasonableness and consistency, we did not audit the data for accuracy. Such an audit is beyond the scope of this assignment. If the data submitted is inaccurate or incomplete, the results of this report may likewise be inaccurate or incomplete.

Workers' compensation data is subject to a wide range of potential costs. We reviewed a sample of 8,550 claims. Many of the summaries and cross-tabulations will contain substantially fewer claims. Caution must be used in comparing various costs as the results may not be statistically significant or may be related to other undisclosed factors. The regression analysis in this report identifies relationships in the data that show significance.

Note that a statistically significant relationship does not imply cause and effect. It is only indicative of a relationship. Although we do discuss potential reasons for the results observed, it is highly likely that there are other plausible explanations that we have not identified.

Pinnacol Assurance operates as a market of last resort in Colorado. It is possible that their mix of business by employer represents greater hazard and potential for large loss than that of commercial insurers or self insurers.

This study is a closed claim study. For lines of insurance like workers' compensation where claims may remain open for a substantial length of time, a closed claim study will encompass claims across several time periods. Differences in benefit levels, market shares across time, and claim settlement practices will have a large impact on costs and cost comparisons. Identification of market shares across time and claim settlement practices involve exposure information that was not collected in this study. The lack of such exposure information increases the variability of results and decreases the significance of any comparisons. In addition, the comparison of averages from different time periods will be affected by the limitation of Pinnacol Assurance and commercial carrier claims to only those occurring subsequent to January 1, 1991.

CLOSING REMARKS

We appreciate the opportunity to provide this report. We would like to thank the Division of Insurance, the Division of Workers' Compensation, NCCI, and the participants from Pinnacol Assurance, commercial insurers, and self insurers who submitted data. We recognize that provision of the data requested represented a significant contribution of time and effort. We would especially like to thank the participants for their prompt and courteous responses to our questions concerning the data submitted.

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January 31, 2003

COLORADO WORKERS' COMPENSATION CLOSED CLAIM STUDY 2003

INTRODUCTION

Colorado Senate Bill 91-218 (SB218) was enacted by the Colorado General Assembly July 1, 1991 in response to widespread concern about the spiraling cost of workers compensation insurance. Among the many changes implemented by SB 218 were improvements in workers' compensation data collection and reporting that would lead to a better understanding of the costs that are driving the system.

Senate Bill 218 was a substantial reform to the then existing Colorado Workers' Compensation Act. It became quite apparent during the 1980's that workers' compensation costs were spiraling upward. However, the existing workers' compensation databases were geared to the identification of overall costs for the purpose of ratemaking and did not identify the factors driving the increases. There was some ancillary and explanatory information in the existing database, but this was considerably short of the desirable information needed to identify and correct the drivers impacting workers' compensation costs.

The lack of critical information concerning the existing workers' compensation system affected the general assembly's ability to draft the appropriate change. There was often considerable dispute concerning the potential

impact of changes and a lack of agreement concerning the problems with the system as it existed. This informational void created uncertainty concerning the costs and benefits of changes proposed.

In response to the workers' compensation reforms enacted in 1991 by the Colorado legislature, the Division of Insurance promulgated Regulation 5-3-2 which identified the data to be collected by the NCCI from insurance carriers. Senate Bill 109, effective April 24, 1997, requires the Executive Director of the Department of Labor and Employment to collect similar information from self-insurers. Self insurers contributed data in the 1996 and prior studies as well as the 1998 and subsequent studies, but were exempt from the data collection requirement during the 1997 study. In general, the required elements include:

- Basic claim information about the accident, claimant, employer, and claim administration details:
- Benefit information such as medical, indemnity, vocational rehabilitation, and expenses; and
- Legal information such as claimant attorney involvement.

These workers' compensation data reports are designed to fill the informational void concerning the cost drivers of workers' compensation. Future costs will need to be monitored to determine the effectiveness of the Senate Bill 218 reform, and to provide information so costs can continue to be controlled as changes occur and the system evolves.

Milliman USA, Inc. was engaged by the Division of Insurance to conduct the 2003 Colorado Workers' Compensation Closed Claim Study (2003 Study). Prior reports were prepared in 1996 - 2002 by Milliman and in 1990, and 1993 - 1995 by Tillinghast, a Towers Perrin Company. The Milliman reports are descriptive in nature: our objective is to present a snapshot picture of the variables affecting workers' compensation costs.

THE 2003 STUDY

The 2003 study continues to build upon the data collected in the earlier studies. A total sample of 8,550 claims involving permanency are now included (up from 7,411 last year). The carriers represented in the sample are Pinnacol Assurance (approximately 47% of the commercial market), 49 commercial insurers (approximately 35% of the commercial market), and 62 self insurers (approximately 82% of the self insurer market). Up until 1999, Pinnacol Assurance was known as CCIA (Colorado Compensation Insurance Authority).

For the commercial carriers and Pinnacol Assurance we relied on Detailed Claim Information (DCI) collected by NCCI along with supplemental information that we collected from the carriers on the same claims. The DCI is a continuing random sample of claims that began with accidents on or after January 1, 1991. We obtained an electronic copy of this database from NCCI as of August 2002.

For self insurer claims, we relied on data provided by the Colorado Division of Workers' Compensation (DWC). This data was also supplemented by data we collected directly from self insurers on the same claims.

To supplement the DCI and DWC data, we collected a breakdown of medical dollars by type of provider, information on managed care, method of closure, designator of medical provider, and the number of days hospitalized.

For the comparison section of this study, we isolated all DCI claims involving permanency that closed between July 1, 2001 and June 30, 2002. This produced 134 new Pinnacol Assurance and commercial carrier claims. For self insurers, we included 214 new claims closed between July 1, 2001 and June 30, 2002.

The demographic characteristics of the new claims are set forth below:

Demographic Characteristics of the 2003 Study

	Male	Female
Average Age	45.7	46.7
Percent Married	63.6%	55.6%
Percent of Claims	63.5%	36.5%
Percent of Dollars	66.9%	33.1%

For the regression analysis in this study, we utilized all DCI closed claims involving permanency and all self insurer claims from our prior studies. We then eliminated 1,421 claims with unknown values for any of the variables used in the regressions. This produced a total of 7,129 claims.

This report provides the results of the 2003 study. It is divided into the following sections: regression analysis; comparisons to the two earlier studies and cross-tabulations. Information on the sample is included in Appendix A. Appendix B contains the regression analysis, and Appendix C contains the tables of the cross-tabulation results.

REGRESSION ANALYSIS RESULTS

Regression analysis is concerned with modeling the relationships between variables. Through the use of regression, we seek to evaluate the relationship between the cost of a claim (indemnity, medical and total) and other potential explanatory variables. Regression can be used to both determine whether a particular variable is significant in explaining the cost and to describe the nature of the relationship. When a characteristic is listed as significant, it implies that the statistical model indicated a 5% chance or less that the association could have been caused by randomness alone. In this case, we would say that the result was significant at the 0.05 (5%) level.

When interpreting the results of a regression analysis, it is important to recognize the difference between association and cause and effect. Regression only establishes whether or not there is an association between variables. It cannot determine whether a cause and effect relationship is involved. For example, the use of a case manager was found to be significantly associated with higher costs. It is likely that the more serious cases, those with potentially higher costs, require a case manager. It does not imply that the use of a case manager caused the higher cost.

In the regression analysis we are attempting to understand as many of the impacts of explanatory variables as possible. We represent total costs (indemnity, medical, and total) by a multiplicative function of the potential explanatory variables. The use of a multiplicative function allows us to express the impact in terms of percentage changes in cost. Where we show a percentage impact in the tables below, it also implies that the relationship is significant at the 5% level. Where a variable is not shown, it implies that the variable tested was not significant. If a variable is listed, but no percentage impact is shown, it implies that the particular impact was not significant for that category of loss (indemnity, medical, or total), but was significant for at least one other category of loss. Appendix B to this report shows the impact of each variable that is significant for any category of loss along with the level of significance. The shaded variables on each sheet are the ones that are not significant.

Nature of Injury and Part of Body

We grouped the various nature of injury and part of body codes into one of nineteen different classes. A total of ten of these showed differences in cost that were significant. In the next table, we show the impact in terms of the percentage deviation of each group from the comparison group which is the average of the remaining nine groups not shown.

1. Type of Injury	Percentage Impact on		
i. Type of injury	Indemnity	Medical	Total
Back Sprains and Strains	65%		30%
All Other Back Injuries	76%		36%
Intermediate Fractures/Dislocations		21%	
Fractures/Dislocations Hands and Digits	-33%	-10%	-23%
Cut/Laceration/Contusion Hand and Finger	-62%	-25%	-44%
Sprains/Strains to Lower Body	14%		
Knee Disorders		26%	7%
Neck & Head	29%		19%
Major Trauma	27%	11%	19%
Burns		33%	

It is important to recognize that the chart shows the impact of only those groups exhibiting a significant difference in cost. It is often the case that some combinations of nature of injury and part of body are more expensive (e.g., burns and face), but if the variation of the costs of that particular category is also large (e.g., many burns can be quite minor), then the difference will not be significant. Of the categories exhibiting significant differences, injuries to the back are the most expensive, 30% more than the comparison group for back sprains and strains, and 36% more expensive for all other back injuries. It is apparent that this difference results from the difference in indemnity costs, where back sprains are 65% more expensive than the comparison group, and all other back injuries are 76% more expensive than the comparison group. Medical costs were not significantly different from the comparison group for back injuries. The differences in costs between the other groups exhibit little surprise.

Type of Industry

We grouped claims by Standard Industrial Code (SIC) groupings. We initially selected the following eleven broad groups:

- Agriculture
- Mining
- Construction
- Manufacturing
- Transportation
- Wholesale Trade
- Retail Trade
- Finance, Insurance and Real Estate
- Services
- Public Administration
- Non Classifiable or Unknown

Of these groups, only the following three showed a significant difference in cost from the average of the other groups:

2. Type of Industry	Percentage Impact on		
2. Type of industry	Indemnity	Medical	Total
Mining			17%
Construction	24%		12%
Transportation	26%		16%

It is interesting that the differences in indemnity costs for construction and transportation are driving the difference in total cost. The difference in medical costs were *not* significant for any of these groups. One potential explanation for the significantly higher indemnity costs for these two SIC groups and no similar difference in medical costs may be that a given physical injury in these industries (proxied by average medical costs) is more disabling, leading to longer time loss. This could be true even though permanent partial disability benefits are impairment based. It could be that the healing periods are longer, or that the system compensates by assigning higher impairment ratings.

Claimant Characteristics

We initially tested the following four claimant characteristics for potential significant differences in cost.

- Pre-injury wage (percentage change)
- Claimant age (in years)
- Claimant gender is male (yes, no)
- Claimant is married (yes, no)

The table below shows the results for the characteristics exhibiting differences in cost that were significant.

3. Claimant Characteristics	Percentage Impact on		
3. Claimant Characteristics	Indemnity	Medical	Total
Male	14%	6%	10%
Pre-injury Wage (Elasticity)	39%	8%	25%
Married		-8%	-5%

Males show significantly higher costs than females. This result is consistent with the results of prior studies in this regard. Since we separately measure differences in cost resulting from pre injury wages, wage differences between males and females is not an explanation. We would expect, however, that a larger proportion of males than females may be involved in physical work where there is a greater chance of being involved in a serious accident, or where substantial physical recovery is required prior to returning to work.

We show the impact of wages as an elasticity. An elasticity describes the relationship between percentage changes. In this case, it is the relative response in costs (indemnity, medical, or total) to a percentage change in the wage. The 25% for total costs means that we expect total costs

to increase by 25% of any percentage change in wages. For example, if one worker has wages that are 10% higher than another, we expect that total benefit costs for the higher paid worker will be 2.5% higher (25% of the 10% is passed through as a workers' compensation cost).

We were somewhat surprised not to find a higher relationship between wages and benefits (i.e. closer to 100%), particularly for indemnity. Except for permanent partial scheduled benefits and the impact of minimum and maximum benefits, the indemnity benefit formula is proportional to wages. There are several potential reasons why a stronger relationship is not observed. Higher wage workers may be more likely to be in supervisory roles, and consequently, not exposed to as much hazard as lower paid workers. Higher wage workers may also have a greater opportunity cost of lost wages than lower paid workers, and therefore return to work earlier. The maximum weekly benefit would flatten the response of benefits to wages. Finally, it is possible that injuries that are settled are compensated on the basis of the severity of the injury rather than as a function of wages (e.g., adjuster and claimant agree on a specific dollar amount).

The +8% result in Table 3 does confirm the widely held belief that higher medical costs are associated with higher pre-injury wages. This can result if wages and medical costs co-vary with geography (e.g., if urban workers are paid more and urban medical costs are also higher),

or if higher-paid workers are better educated and consequently demand more expensive medical treatment.

This is the first year that marital status showed a significant impact on medical and on total costs. The variable of age continues to not show a significant impact on costs

Time Sensitive Components

We test the following four variables for their potential impact on cost:

- Accident Year
- Length to Close (percentage change)
- Delay to Initial Report of Injury
- Delay to First Indemnity Payment

All four were significant.

4. Time Sensitive Components	Percentage Impact on		
4. Time Sensitive Components	Indemnity	Medical	Total
Accident Year	2.6%	3.3%	3.4%
Length to Close (Elasticity)	77.2%	68.8%	73.5%
Report Lag	0.03%	0.04%	0.03%
First Indemnity Payment Lag	-0.1%	-0.1%	-0.1%

The positive association between accident year and costs implies that costs are increasing over time. However, the size of the relationship (3.4%) is not inconsistent with recent wage growth rates in Colorado, and is not by itself alarming. Absent a frequency trend, since the exposure base for workers' compensation premium is payroll, an increase in benefit costs equal to the exposure payroll growth rate implies a stable rate trend. We calculate that an annual exposure payroll growth rate of

approximately 4.6% or higher is enough to offset this accident year trend in costs. A growth of 4.6% in exposure payroll implies an increase in benefit costs of the same magnitude and consequently no contribution to a rate trend (1.2% for the wage elasticity above (25% of 4.6%), plus the 3.4% increase in costs for the accident year trend).

We found that the length-to-close was the single characteristic having the greatest explanatory power in the regression model. It was found that the longer a claim remains open the higher the associated costs. Like wages, the impact is expressed as an elasticity. That is, the 77% impact on indemnity costs implies that if the length-to-close is increased by 100% (e.g., from one year to two), indemnity costs are increased by 77%. This is expected since indemnity payments are often paid periodically, and the more serious injuries are expected to last longer. The somewhat lower impact for medical costs is also expected. Medical costs are often characterized by high initial expenses to diagnose, stabilize and cure followed by a leveling off.

The longer the delay to report a claim, the higher the medical costs. The result above is expressed as the percentage change in costs for each day delay in reporting a claim. For example, the 0.04% impact on medical costs implies that if a claim had a 100 day delay in reporting, the medical costs are expected to be 4% higher. As expected, earlier reporting allows a claim to be better managed. In fact, as we

will later show, the presence of an early reporting mechanism does indicate a reduction in costs comporting to the theory that claims that are reported earlier are better managed.

The number of days to the first indemnity payment is significantly associated with lower indemnity, medical, and total costs. In other words, the longer the delay in making the first indemnity payment, the lower the costs. This result is also expressed as the percentage change in costs for each day delay in the first indemnity payment. For example, the -0.1% impact on total costs implies that if a claim had a 50 day delay in first indemnity benefits, there is a 5% reduction in costs.

The delay in making the first indemnity payment is possibly due to the investigation of questionable claims, thereby resulting in the successful elimination of unnecessary costs. Another explanation for the delay is that the disability may surface at some time after the accident actually occurred. This delay causes the period of time in which payments are made to be shorter, thus resulting in fewer payments. Finally, if there is a delay in making indemnity payments, then it is likely that the initial injury was not as severe. Certainly, most serious traumatic injuries involve a period of immediate incapacity. If the initial injury was not severe enough to involve an immediate incapacity then it is also likely that there would be lower than average initial medical treatment and lower than average indemnity and medical costs.

Type of Carrier

We examined the level of costs based on the type of carrier providing the benefits. The following carrier types were compared:

- Pinnacol Assurance Claim
- Self-Insurer Claim
- Commercial Carrier Claim

The table below shows the results for self-insureds - the only entity where the cost differences were significant. Pinnacol Assurance claims no longer show a significant difference in costs.

5. Type of Carrier	Percentage Impact on		
	Indemnity	Medical	Total
Self-Insured Claim	11%	21%	15%

The relationship shown above is relative to the level of costs of commercial carrier claims. The self-insurer claims are 15% more expensive than commercial claims. Self insurers pay more per day open than commercial insurers, but also have fewer days open offsetting the cost. This can occur if liberal permanent impairment benefits are offered to encourage early return to work and swift resolution. Extreme care must be used in evaluating these results, however. We found that because the lengthto-close variable has such large explanatory power, the type-of-carrier variable is picking up only residual unexplained variation. We reran the model deleting the length to close variable. The self-insureds did significantly higher costs with this revised mode.

Claim Characteristics

We examined the following claim characteristics, all indicated by a yes or no response.

- Claimant attorney involvement
- Chiropractor involvement
- Claim is post-Senate Bill 218
- Physical Therapy used
- Hospital used
- Surgery used
- Vocational rehabilitation used

The next table shows the percentage change in costs associated to a yes response to any of these variables compared to a no response for the claim characteristics where the cost differences were significant.

6. Claim Characteristics	Percentage Impact on		
	Indemnity	Medical	Total
Claimant Attorney	20%	11%	16%
Chiropractor Used	10%	11%	8%
Physical Therapy Used	18%	35%	22%
Hospital Used	27%	82%	40%
Vocational Rehabilitation Used	49%	20%	44%
Surgery Used	6%	15%	8%

The presence of a claimant attorney is associated with higher claim costs. Overall, we found that costs were 20%, 11%, and 16% more expensive for the indemnity, medical, and total cost categories, respectively, when claimant attorneys were involved. There are different possible explanations for the significance of this variable. It could be that claimant attorneys are successful in obtaining higher benefits for their clients. It may also be that more serious injuries tend to be more complicated and therefore, are more likely to have an attorney. The greater impact on

indemnity cost than medical could result if the presence of an attorney increases the likelihood of a settlement. We found that some carriers code all settlement dollars to the indemnity category of benefits (with a settlement, it is often not clear what the components are). If an attorney implies a greater probability of a settlement, then we would expect a somewhat larger proportion of indemnity benefits on attorney represented claims due to this coding procedure. The data call did not collect information on claimant attorney fees (often these are not known by the carriers). Therefore, we are unable to assert whether the claimant received a net benefit considering the cost of the attorney against the award.

Chiropractors were also associated with higher claim costs. We found that indemnity costs were 10% higher, medical costs were 11% higher and total costs were 8% higher when a chiropractor was involved with the claim.

We also found that the use of physical therapy is an indicator of higher cost. Indemnity, medical, and total benefit costs are 18%, 35%, and 22% higher when a claimant utilizes physical therapy. This result is not surprising since generally the more serious the medical injury, the more likely there will be physical therapy required.

The use of a hospital and the use of surgery were both found to be significantly associated with higher indemnity, medical and total costs. When an injury requires treatment in a hospital,

or requires surgery, it is usually serious enough to require more medical attention and longer recovery periods. In addition, hospital stays in and of themselves entail substantial expense as indicated by the 82% increase in medical cost associated with claims involving a hospital stay.

The use of vocational rehabilitation is associated with higher costs. Specifically, indemnity, medical, and total costs were each 49%, 20%, and 44% higher than claims with no vocational rehabilitation benefits. Vocational rehabilitation is generally only necessary when someone has a serious enough disability to require a change in employment or job function. Therefore, the higher indemnity, medical, and total costs could result, not because of the use of vocational rehabilitation, but because of all the medical attention and recovery time involved in treating a serious injury or disability.

Method of Closure

We looked to the cost impact associated with the following different methods of closure:

- Negotiated settlement (yes, no)
- Admission (yes, no)
- Order (yes, no)
- Other (no for each of the above)

There was one claim closed by "other" so this category was combined with "order" to form the reference group. The table below shows the percentage change in costs associated with claims closed by settlement or admissions as compared to the reference group.

7. Method of Closure	Perce	Percentage Impact on		
7. Metriod of Closure	Indemnity	Medical	Total	
Settlement	39%	17%	30%	
Admission	-25%		-17%	

It was found that costs do differ by method of closure. For total costs, the ranking from most expensive to least is: negotiated settlement, order/other and admission. Negotiated settlements are 30% more expensive than claims closed by order/other, and admissions are 17% less expensive.

This result is expected since claims with settlements are likely to be complicated and disputed. Negotiated settlements, in particular, also include amounts intended to compensate the claimant for costs beyond the date of closure, and may also include compensation for facts that are disputed. Closure by admission generally results from claims achieving their natural end at the time of final admission. These claims are likely to be less complicated, have fewer areas of dispute, and be shorter duration. Small claims tend to resolve themselves with little intervention required.

Benefit Types

We looked at claims cost for the following benefit types:

- Permanent Total claim (yes, no)
- Fatal claim (yes, no)

- Permanent Partial Scheduled (yes, no)
- Other (yes, no)
- Permanent Partial Unscheduled

 (a default classification resulting from "no" on all other types)

The results are shown below, where the base group to which the others are compared is permanent partial unscheduled:

8. Benefit Type	Percentage Impact on		
	Indemnity	Medical	Total
Permanent Total	122%		90%
Permanent Partial Schedule	-23%		-17%
Fatal	108%	-56%	80%
Other	-50%	-55%	-41%

The ranking of claim cost from most expensive to least is permanent total, fatal, permanent partial unscheduled, permanent partial scheduled and other. There was a significant difference in all the categories of total loss. This is the expected ranking of claim costs in the Colorado system.

An explanation for the lower costs associated with permanent partial scheduled claims is that these claims are paid at a lower weekly rate, and that injuries to the scheduled body part members may be less disabling than injuries to unscheduled body part members.

Note that while the indemnity and the total costs were significantly higher for fatal claims, the medical costs were significantly lower than the base group. It is not unexpected that medical portion of costs for fatal claims would be lower than the medical costs for permanent

partial unscheduled while in total the costs were higher.

Medical Management Techniques

We reviewed the potential impact of various medical management techniques in common use, all indicated by a yes or no response:

- Employer designated medical provider
- Early reporting
- Case manager
- Utilization review

The table below shows the percentage change in costs significantly associated with a yes response as compared to a no response.

9. Medical Management Techniques	Percentage Impact on		
5. Medical Management Techniques	Indemnity	Medical	Total
Early Report	-5%		
Case Manager	14%	16%	15%
Utilization Review		33%	15%

The difference in costs associated with the employer designation of medical provider turned out not to be significant for any of the indemnity, medical, or total categories of loss, and consequently, this variable was dropped from the model. The lack of significance associated with this variable is consistent with the last five studies. We note that a substantial majority of the claims in this study did show that the employer designated the provider. The use of a PPO network is classified as an employer designated provider.

The use of a case manager was found to be significantly associated with higher indemnity, medical, and total costs. One explanation is that the more serious cases, those with potentially higher overall costs, are assigned to a case manager.

Early reporting was based on whether telephone reporting of the claim was used at the time the claim was reported. The use of a toll-free early reporting hotline was significantly associated with 5% lower indemnity cost. If a carrier can accelerate the reporting of all claims (serious and non-serious alike), claims can be better managed leading to lower costs.

The use of utilization review was found to be significantly associated with higher medical costs and total costs. In general, one would expect that utilization review would be employed on the higher cost claims. If the result of the utilization review was effective, this could reduce the cost of that claim toward the average.

COMPARISONS

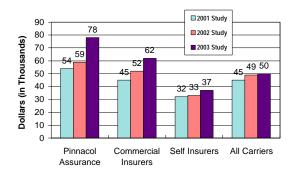
The analysis in this section is a comparison of the results of the 2003 study with the results of the 2002 study and the 2001 study (the Milliman Workers' Compensation Closed Claim Studies dated January 31, 2002 and January 31, 2001). Note that for comparison purposes, the definition of cost in this section has been adapted to that used in the 1996 study. Therefore, combined cost in this section refers only to indemnity (including lump sum payments) and medical. Lump sum payments are defined to include stipulated settlements. Combined cost does not include vocational rehabilitation and expense amounts. This means that there will be slight differences between the combined results in this section and the total results in the cross-tabulation section with the difference being due to the vocational rehabilitation and expense amounts.

Note that for easy reference, the chart numbers in this section correspond to the table numbers in Appendix C.

Average Costs

Chart 1a compares the average combined (indemnity and medical) claims cost of the latest three studies. Pinnacol Assurance generally shows the highest average costs, followed by the commercial insurers and then the self insurers.

Chart 1a - Average Combined Claim Cost



Pinnacol Assurance has the highest percentage of claims over \$100,000 with 24% of their claims being in that catagory. Commercial insurers have 22% and self insurers have 6% of their claims in the over \$100,000 catagory.

The average costs for the indemnity and medical components are shown in Charts 1b and 1c. The comparisons of average claim costs by component for the separate entities follows the pattern of the comparison for the combined averages.

Chart 1b - Average Indemnity Claim Cost

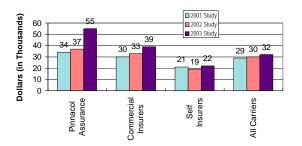
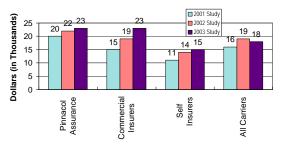


Chart 1c - Average Medical Claim Cost



Claim Size

Chart 2 displays the distributions by size of claim as both percent of claims and percent of dollars for each of the studies. In both charts, the percentages are shown relative to claims less than \$100,000 in cost. We have eliminated claims over this amount from the comparison because their variability would obscure the results for claims less than \$100,000. Both the percentage of claims and the percentage of dollars in the \$50,000-\$100,000 range has continued to increase with the 2003 study.

Chart 2a - Distribution by Claim Size

Incremental Count Distribution (Percent)			
Excluding Claims Over \$100,000			
Size of Claim	2001 Study	2002 Study	2003 Study
Under 10,000	16.3	12.4	12.6
10,001 - 20,000	22.4	19.6	17.7
20,001 - 30,000	17.3	16.5	13.5
30,001 - 40,000	9.2	10.3	11.4
40,001 - 50,000	9.2	9.3	11.1
50,001 - 60,000	4.1	7.2	7.5
60,001 - 70,000	4.1	5.2	6.6
70,001 - 80,000	3.1	4.1	3.6
80,001 - 90,000	2.0	3.1	4.2
90,001 - 100,000	2.0	2.1	2.7
100,001 - 125,000	3.1	5.2	5.4
Over 125,000	8.2	6.2	8.1

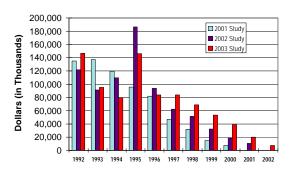
Chart 2b - Distribution by Claim Size

Incremental Dollar Distribution (Percent)			
Excluding Claims Over \$100,000			
Size of Claim	2001 Study	2002 Study	2003 Study
Under 10,000	1.1	1.1	1.5
10,001 - 20,000	7.4	6.3	5.1
20,001 - 30,000	9.6	8.4	6.5
30,001 - 40,000	6.4	7.4	7.9
40,001 - 50,000	9.6	8.4	10.1
50,001 - 60,000	5.3	7.4	8.1
60,001 - 70,000	5.3	7.4	8.5
70,001 - 80,000	5.3	6.3	5.4
80,001 - 90,000	6.4	5.3	7.0
90,001 - 100,000	4.3	4.2	5.0
100,001 - 125,000	6.4	11.6	11.8
Over 125,000	38.3	31.6	30.0

Distribution by Accident Year and Carrier

Chart 3 shows the average cost per claim by accident year since 1992 for each of the last three studies. It is obvious that the more recent accident years have lower costs. The reader should be cautioned, however, that this is not evidence of a decreasing trend, but rather is a manifestation of the expected pattern with closed claim studies.

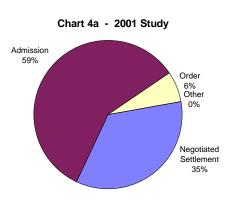
Chart 3
Average Cost by Accident Year

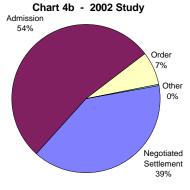


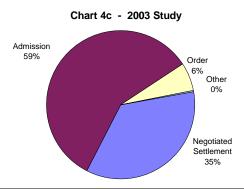
Since a closed claim study looks to accidents closed during a period for its base, it is expected that those claims taking longer to close would have arisen from an earlier accident year. In workers' compensation, longer duration claims are generally more expensive.

Method of Closure

Method of closure is categorized as negotiated settlement, admission, order, or closed other methods. Charts 4a through 4c are the percent of claims for each category of closure for the 2001, 2002 and 2003 studies, respectively. The distribution of the 2003 study continues the higher level of claims closed by admission followed by the percentage of claims closed by negotiated settlement seen in the prior two studies.







The high level of settlements is driven by Pinnacol Assurance, where negotiated settlements were 38% of their claims in the 2001 study, 47% in the 2002 study, and 51% in this year's study.

Chart 4d shows the average cost of negotiated settlements compared with prior studies. The costs are shown for indemnity (including lump sums), medical, and the combined cost of indemnity and medical. The leveling off in the combined average cost that was seen in last year's study appears to be continuing this year.

Chart 4d
Average Cost of Negotiated Settlements

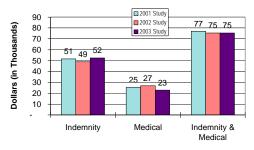
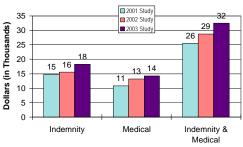


Chart 4e shows the average cost of admissions compared with prior studies. The costs are shown for indemnity (including lump sums), medical, and the combined cost of indemnity and medical. The average cost of admissions has again shown an increase this year from \$29,000 to \$32,000.

Chart 4e Average Cost of Admissions



Claimant Attorney Involvement

Attorney involvement in the studies since 1996 is defined as the use of a claimant attorney. The percent of claims closing with claimant attorney involvement has stayed at about 40% for the last three studies. It is important to recognize, however, that the studies do not include accidents prior to 1991 for Pinnacol Assurance and commercial carriers. We have found that claimant attorney involvement is generally much higher with the older claims (those taking longer to close) and each successive study loses a smaller proportion of potential claims due to the 1991 claim cutoff. Claimant attorney involvement is also likely to be related to the level of closure by negotiated settlement and order since typically, claimant attorneys are involved in these types of claims.

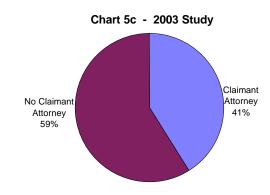
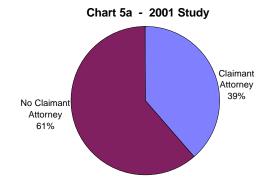


Chart 5d shows the comparison of average claim costs by attorney involvement. The pattern shown in prior studies is continued this year. That is, claims involving an attorney are more expensive.



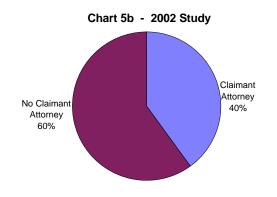


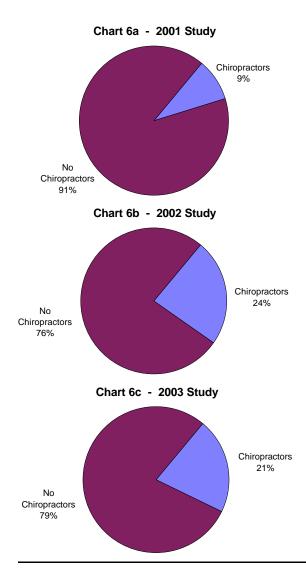
Chart 5d - Comparison of Average Claim Costs by Attorney Involvement

	2001	2002	2003
	Study	Study	Study
Pinnacol Assurance			
Claimant Attorney	\$81,205	\$82,692	\$89,088
No Claimant Attorney	27,291	31,576	59,664
Commercial Insurers			
Claimant Attorney	\$48,875	\$60,328	\$68,404
No Claimant Attorney	46,033	53,079	64,976
Self Insurers			
Claimant Attorney	\$59,624	\$58,851	\$59,831
No Claimant Attorney	21,264	21,811	27,037
All Carriers			
Claimant Attorney	\$72,829	\$72,597	\$71,319
No Claimant Attorney	31,228	35,830	38,178

Chiropractor Involvement

As shown in Charts 6a to 6c, the percent of claims with chiropractors has more than doubled in this year's study.

The costs of chiropractor claims are addressed in the regression section where total medical costs are taken into account. This allows the incorporation of all the medical services that a chiropractor might provide. A comparison of the average cost of a chiropractor to the average cost of another medical provider might not consider all these services.



CROSS-TABULATION RESULTS

Averages are shown in this report for descriptive purposes only; they demonstrate neither a correlation nor a cause and effect relationship between variables. The averages help the reader obtain a general view of the data.

Total cost in this section refers to indemnity, medical, vocational rehabilitation, and loss adjustment expenses. Since the definition of total cost in the Comparisons section above did not include the vocational rehabilitation or expense values, there will be slight differences between the results in this section and the results in the Comparisons section. Lump sum payment amounts are included in cost types listed above and are shown separately for information only.

Loss adjustment expenses include insurer legal expenses, insurer expert witness fees, other insurer legal costs, penalties, and other allocated loss adjustment expenses. Insurers and regulators typically define these expenses as defense and cost containment. They exclude the expenses of most insurer personnel.

Workers' compensation claims are driven by many variables which have complex interactions. Differences observed between variables are neither conclusive nor are they statistically significant per se. Any differences observed could be caused by random variations as well as by differences in other variables. The Regression Analysis section of this report discusses the relationships between the variables.

The results in this section are divided into the following categories: distribution of total dollars; injury analysis; indemnity; medical; vocational rehabilitation; attorney involvement; and time lines.

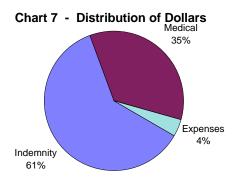
The supporting data for each of the charts below is shown in the tables of Appendix C. For easy reference, each chart number in this report corresponds to the table number in Appendix C.

A. Distribution of Total Dollars

This section shows the distribution of total dollars by type of cost, type of carrier, claim size, and method of closure.

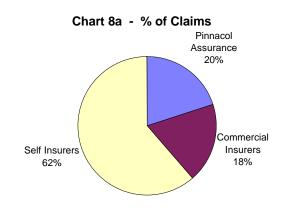
Type of Cost

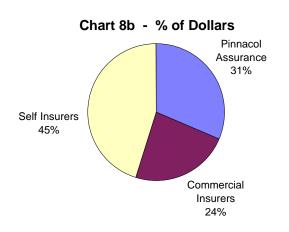
The total costs in the sample of 348 claims closed from July, 2001 to June, 2002 were approximately \$18 million with 61% of these costs from indemnity payments, 35% from medical payments, 4% from expenses, and less than 1% from vocational rehabilitation.



Type of Carrier

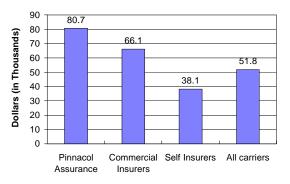
Of the new claims sampled, 20% were from Pinnacol Assurance and represented 31% of the total cost. Commercial insurers had 18% of the claims which represented 24% of the total cost. Self insurers were 62% of the new claims sampled and 45% of the costs.





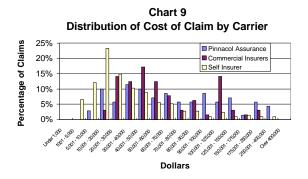
The average total cost of a claim was approximately \$81,000 for Pinnacol Assurance, \$66,000 for commercial insurers, and \$38,000 for self insurers.

Chart 8c - Average Total Claim Cost



Claim Size

Chart 9 shows that for self insurers, the largest percentage of claims in this year's study (23%) continues to be in the \$10,000 to \$20,000 range. Pinnacol Assurance has 11% of claims in the \$30,000 to \$40,000 range followed by 10% in both the \$10,000 to \$20,000 range and the \$40,000 to \$50,000 range. Commercial insurers have 17% of claims in the \$40,000 to \$50,000 range and 14% in both the \$20,000 to \$30,000 range and the \$100,000 to \$125,000 range. For all entities, claims have shifted to larger ranges.



Method of Closure

Method of closure is categorized as negotiated settlement, admission, order, or other. Chart 10a shows that of the claims where method of closure was coded, 58% closed with an admission, 35% closed with a negotiated settlement, and 6% closed by an order. Chart 10b shows that claims closed by admission represented 37% of total cost, claims closed by negotiated settlement represented 53% of total cost, and claims closed by an order represented 8% of total cost.

The average total cost of claims closed by negotiated settlement continues to be approximately two and one half times the cost of claims closed by admission.

Chart 10c - Method of Closure

	Number	Dollar	Average
Method of Closure	of Claims	Cost of Claims	Cost of Claims
Negotiated Settlement	122	\$9,600,698	\$78,694
Admission	201	\$6,695,914	\$33,313
Order	21	\$1,404,840	\$66,897
Other	1	\$129,932	\$129,932
Not Reported	3	\$193,789	\$64,596
Totals/Average	348	\$18,025,173	\$51,796

Chart 10a - % of Claims Admission 58% Order 6% Other 0% Negotiated Settlement 35%

Charts 10d through 10f contain method of closure information for each of the entities.

Chart 10d Method of Closure as % of Claims

	Pinnacol	Commercial	Self
Method of Closure	Assurance	Insurers	Insurers
Negotiated Settlement	51%	50%	26%
Admission	43%	22%	74%
Order	6%	27%	0%
Other	0%	2%	0%

Chart 10b - % of Dollars

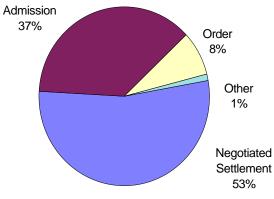


Chart 10e Method of Closure as % of Dollars

	Pinnacol	Commercial	Self
Method of Closure	Assurance	Insurers	Insurers
Negotiated Settlement	67%	54%	45%
Admission	26%	19%	55%
Order	7%	24%	0%
Other	0%	3%	0%

Chart 10f - Average Total Dollars by Method of Closure

	Pinnacol	Commercial	Self
Method of Closure	Assurance	Insurers	Insurers
Negotiated Settlement	103,151	71,609	67,253
Admission	49,866	57,762	28,108
Order	101,115	58,846	
Other		129,932	

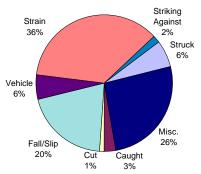
B. INJURY ANALYSIS

This section provides an analysis by the cause of injury, the nature of injury, and the part of body injured.

Cause of Injury

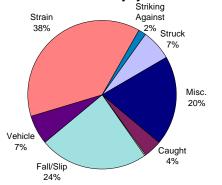
Similar to prior years, the two most common causes of injury observed were strain and fall/slip. Chart 11a shows that 36% of the injuries in the sample were caused by a strain and 20% were caused by a fall or slip.

Chart 11a - Cause of Injury - % of Claims



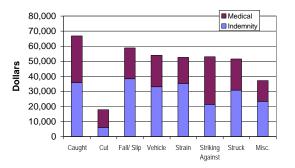
Correspondingly, the causes of injury representing the largest proportion of total costs were also strain and fall/slip. Chart 11b shows that 38% of the total dollars included in the sample were from injuries caused by strain and 24% were from injuries caused by a fall or slip.

Chart 11b - Cause of Injury - % of Dollars



The average indemnity plus medical costs were highest for injuries in the "caught in or between" category, followed closely by most other categories.

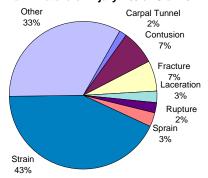
Chart 11c - Cause of Injury
Average Cost for Indemnity & Medical



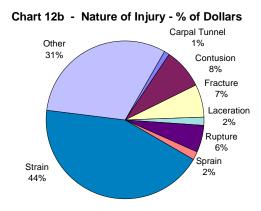
Nature of Injury

The category of "other" shown on the charts below not only includes the "all other" that was coded, but also contains the classes that each had less than 2% of the claims sampled. These included such injuries as amputation, concussion, and puncture. Similar to prior years, the most common natures of injury, based on percent of claims, were strain (43%), fracture (7%) and contusion (7%). Carpal Tunnel Syndrome represented approximately 2% of the claims in the study.

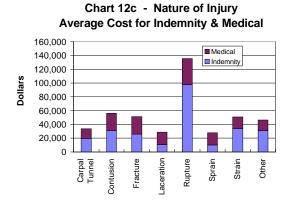
Chart 12a - Nature of Injury - % of Claims



Similarly, the natures of injury representing the largest proportion of total cost were strain (44%), contusion (8%) and fracture (7%). Carpal Tunnel Syndrome represented less than 2% of the dollars in the study.

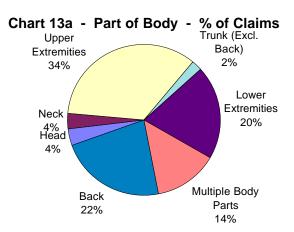


Among the natures of injury with greater than 2% of claims, the combined average medical and indemnity costs were higher by far for ruptures and sprains.

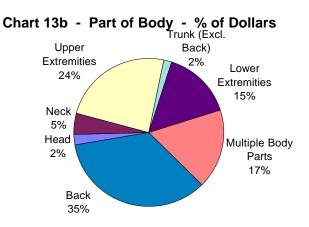


Part of Body

Similar to prior years, the most common parts of the body involved in injuries, based on percent of claims, were the upper extremities (34%), the lower extremities (20%), and the back (22%).



The injuries to the trunk and back accounted for 37% of the total costs, including 35% from back injuries and 2% from other trunk injuries. Of the total costs, 24% were for injuries to the upper extremities and 15% were for injuries to the lower extremities.

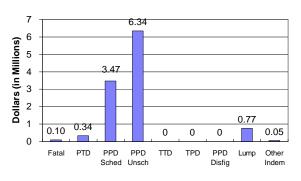


C. INDEMNITY

Type of Injury

Approximately 57% of the indemnity dollars (\$6.3 million) were spent on claims involving unscheduled permanent partial disability (PPD). Scheduled permanent partial disability claims accounted for another \$3.5 million, or 31% of the total dollars.

Chart 14
Indemnity Dollars By Type of Injury

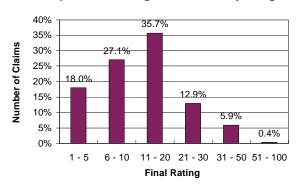


Impairment Rating

In the 2003 study, 27% of claims are coded with an unknown impairment rating. This is similar to last year's study and is evidence of improved record keeping over years prior to 2000 when the unknowns were as high as 70%.

Of the claims with an impairment rating, 45% have a rating of 10% or less, and 81% have a rating of 20% or less. The percentage of claims with an impairment rating over 20% has increased from 13% last year to 19% this year.

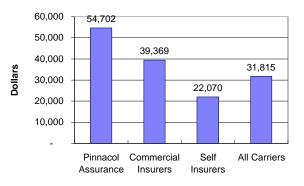
Chart 15
Impairment Rating Claim Count by Range



Average Indemnity Costs by Type of Carrier

The Pinnacol Assurance average indemnity cost at \$54,702 is approximately 40% higher than the commercial carrier average of \$39,369 and more than double the self insurer average of \$22,070. The average for all the carriers combined is \$31,815.

Chart 16 - Average Indemnity Claim Cost



D. MEDICAL

Distribution of Medical Costs

Doctors (including physical therapists) account for 41% of the total medical costs and hospital charges account for 34% of the costs. The category of "other" shown in Chart 17a includes medical costs coded as "other" as well as the classes that each had less than 2% of the medical costs in the sample. These included pain rehab/work reconditioning, prosthetics, and independent medical examinations. The distribution of charges by type of doctor is broken down in Chart 17b.

Payments to physical therapists appeared in 87% of the claims and accounted for 11% of the total medical costs. Payments to chiropractors appeared in 21% of the claims and accounted for 1% of the total medical costs (see Table 17 in Appendix C).

Designator of Medical Provider

Charts 18a and 18b show that in 92% of the claims as well as 92% of the dollars, the employer designated the medical provider for the claim. For the remaining claims, the employer did not designate or the designation was unknown.

Chart 17a - Distribution of Medical Costs

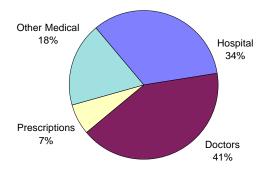


Chart 18a - Designator of Medical Provider
% of Medical Claims

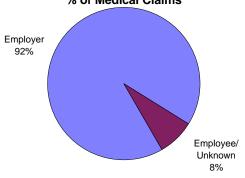


Chart 17b - Distribution of Charges by Type of Doctor

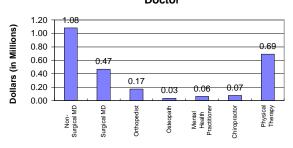
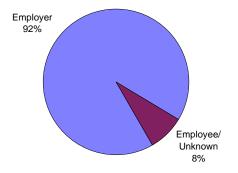


Chart 18b - Designator of Medical Provider % of Medical Dollars



As shown in Chart 18c, a simple comparison of average claim size indicates that the average medical cost of claims where the employer designated the medical provider is higher for commercial carriers and less than half for self insurers. Pinnacol Assurance employers designated the medical provider in 100% of their claims. The regression section found no significant association between who makes the choice of provider and higher or lower costs. The average medical costs shown in this section have not been controlled for the impact of other variables affecting costs as was done in the regression analysis.

Chart 18c
Designator of Medical Provider by Carrier Type

	Pinnacol	Assurance	Commerc	cial Insurers	Self Insurers		
	Percent	Average	Percent	Average	Percent	Average	
	of	Medical	of	Medical	of	Medical	
Designator	Claims	Cost	Claims	Cost	Claims	Cost	
Employer	100.0%	\$ 22,921	59.4%	\$ 26,707	99.5%	\$ 14,837	
Employee /	0.00/		40.707	¢ 17 / 10	0.50/	¢ 27 27/	
Not Reported	0.0%		40.6%	\$ 17,613	0.5%	\$ 37,276	

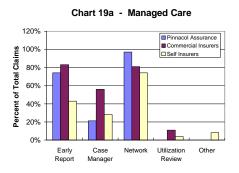
Managed Care

In this study, a claim is considered a managed care claim if one or more of the following parameters is present:

- An 800 telephone number for early reporting
- A Case Manager
- A network of doctors as in a PPO or an HMO
- Utilization Review, either prospective or retrospective

Managed care claims represent 91% of the total number of claims (see Table 19, Sheet 1

in Appendix C). Managed care was used for all of the Pinnacol Assurance claims.



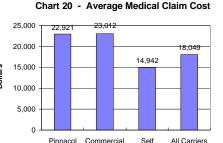
Average medical costs are higher for all entities where there is managed care. Again, it should be pointed out that it is not like ly that managed care increases costs - it is more likely that the vases with managed care are likely to be the more complicated cases and thus the more expensive claims.

Chart 19b - Average Medical Cost With and Without Managed Care by Carrier Type

	Average Medical	Average Medical					
	Cost With	Cost Without					
Carrier	Managed Care	Managed Care					
Pinnacol Assurance	\$ 22,921	N/A					
Commercial Insurers	\$ 23,194	\$ 11,544					
Self Insurers	\$ 15,122	\$ 13,809					
TOTAL	\$ 18,459	\$ 13,733					

Average Medical Cost by Type of Carrier

The average medical claim cost was approximately \$22,900 for Pinnacol Assurance, \$23,000 commercial insurers, and \$14,900 for self insurers.



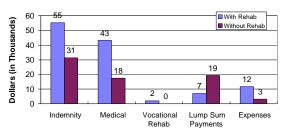
Insurers

Assurance

E. VOCATIONAL REHABILITATION

Vocational rehabilitation was categorized as evaluation, maintenance, education, and other. Of the new claims in the sample, only 7 claims involved vocational rehabilitation. Pinnacol Assurance had 1 claim involving vocational rehabilitation, commercial carriers had 2 claims and self insurers had 4 claims. Chart 21a compares the average costs of the claims in the study that involved vocational rehabilitation with the average costs of those claims that did not involve rehabilitation.

Chart 21a - Average Costs With and Without Vocational Rehabilitation



Of the vocational rehabilitation dollars in the sample, 64% was spent on evaluation. This breakdown is shown in Chart 21b.

Chart 21b

Vocational Rehabilitation - % of Dollars

Evaluation
64%

Other
0%

Maintenance
0%

F. ATTORNEY INVOLVEMENT

Attorney involvement means that the claimant had an attorney. Chart 22a shows the percent of claims with attorney involvement for each type of carrier. Chart 22b shows the average costs by attorney involvement. For commercial carriers and self insurers the majority of claims involved no claimant attorney. The average cost of a claim involving an attorney is 50% more than those not involving an attorney for Pinnacol Assurance, twice as much for self insurers but only slightly higher for commercial insurers.

Chart 22a - Attorney Involvement

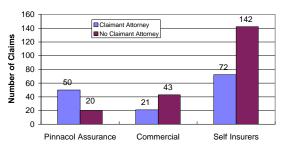
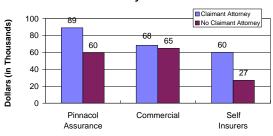


Chart 22b - Average Cost per Claim by Attorney Involvement



G. TIME LINES

In order to present a picture of lag time, the statistical measures of the mean (average) and the median are used. The median is the middle value of a set of ordered data values observed for a particular characteristic. That is, there are as many claims with values above the median as there are below. In a long-term line of insurance like workers' compensation, the median is often more useful as an indicator because of the effect of extreme data observations on the mean. This is illustrated by the increase to 25 days of the mean lag in the date reported to employer from 2001 to 2002. This increase was caused by a 1971 claim involving a prosthetic. Without this claim, the mean lag would have been 7 days.

Chart 23a
Comparison of Mean Lags from Date of Injury

Companison of Mean Lags from Date of Injury									
	2001 Mean	2002 Mean	2003 Mean						
Lag Time From Date of Injury to:	Number of Days	Number of Days	Number of Days						
Date Reported to Employer	5	25	10						
Date Reported to Insurer	15	39	17						
Date of First Indemnity Payment	147	217	253						
Date of Return to Work	84	159	144						
Date of Max Medical Improvement	450	454	463						
Date of Claim Closed	778	833	823						

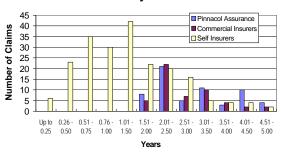
The median lag for the date of first indemnity payment increased from the 2002 study from 83 days to 86 days. The median lag for the date of maximum medical improvement and the date of claim closed continued to increase from the 2000 study.

Chart 23b
Comparison of Median Lags from Date of Injury

	2001 Median	2002 Median	2003 Median
Lag Time From Date of Injury to:	Number of Days	Number of Days	Number of Days
Date Reported to Employer	0	0	0
Date Reported to Insurer	4	3	1
Date of First Indemnity Payment	56	83	86
Date of Return to Work	14	77	39
Date of Max Medical Improvement	316	316	343
Date of Claim Closed	561	650	742

The duration is the number of years from the date of injury to the closing of the claim. As shown in the following chart, the most frequent duration for self insureds was 1 - 1.5 years again this year. For commercial insureds and for Pinnacol the most frequent duration increased this year to 2 - 2.5 years.

Chart 24
Distribution by Duration of Claim



CHARTS

COMPARISONS

Chart 1a - Average Combined Claim Cost
Chart 1b - Average Indemnity Claim Cost
Chart 1c - Average Medical Claim Cost

Chart 2a - Distribution by Claim Size, Incremental Count Distribution
Chart 2b - Distribution by Claim Size, Incremental Dollar Distribution

Chart 3 - Average Cost by Accident Year
Chart 4a - Method of Closure - 2001 Study
Chart 4b - Method of Closure - 2002 Study
Chart 4c - Method of Closure - 2003 Study

Chart 4d - Average Cost of Negotiated Settlements

Chart 4e - Average Cost of Admissions

Chart 5a - Attorney Involvement - 2001 Study
Chart 5b - Attorney Involvement - 2002 Study
Chart 5c - Attorney Involvement - 2003 Study

Chart 5d - Average Claim Costs by Attorney Involvement

Chart 6a - Chiropractor Involvement - 2001 Study
Chart 6b - Chiropractor Involvement - 2002 Study
Chart 6c - Chiropractor Involvement - 2003 Study

CROSS-TABULATION RESULTS

Chart 7 - Distribution of Dollars

Chart 8a - Distribution by Type of Carrier - % of Claims
Chart 8b - Distribution by Type of Carrier - % of Dollars

Chart 8c - Average Total Claim Cost

Chart 9 - Distribution Claim Cost by Type of Carrier

Chart 10a - Method of Closure - % of Claims
Chart 10b - Method of Closure - % of Dollars

Chart 10c - Method of Closure

Chart 10d - Method of Closure as a % of Claims (by Carrier)
Chart 10e - Method of Closure as a % of Dollars (by Carrier)
Chart 10f - Average Total Dollars by Method of Closure

Chart 11a - Cause of Injury - % of Claims
Chart 11b - Cause of Injury - % of Dollars

Chart 11c - Cause of Injury - Average Cost for Indemnity & Medical

Chart 12a - Nature of Injury - % of Claims Chart 12b - Nature of Injury - % of Dollars

Chart 12c - Nature of Injury - Average Cost for Indemnity & Medical

Chart 13a - Part of Body - % of Claims Chart 13b - Part of Body - % of Dollars

Chart 14 - Indemnity Dollars by Type of Injury

Chart 15 - Impairment Rating

Chart 16 - Average Indemnity Claim Cost

Chart 17a - Distribution of Medical Cost	Chart 17a -	Distribution	of Medical Cost
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Chart 17b - Distribution of Charges by Type of Doctor
Chart 18a - Designator of Provider - % of Medical Claims
Chart 18b - Designator of Provider - % of Medical Dollars
Chart 18c - Designator of Medical Provider by Carrier Type

Chart 19a - Managed Care

Chart 19b - Average Medical Cost With and Without Managed Care

Chart 20 - Average Medical Claim Cost

Chart 21a - Average Costs With and Without Vocational Rehabilitation

Chart 21b - Vocational Rehabilitation - % of Dollars

Chart 22a - Attorney Involvement

Chart 22b - Average Cost per Claim by Attorney Involvement

Chart 23a - Comparison of Mean Lags from Date of Injury
Chart 23b - Comparison of Median Lags from Date of Injury

Chart 24 - Distribution by Duration of Claim

CLAIMS FOR THE 2003 STUDY

SAMPLE

The 2003 Study reviewed a sample of 348 new claims involving permanency that were closed between July 1, 2001, and June 30, 2002. The carriers represented in this year's sample are Pinnacol Assurance, 17 commercial insurers, and 21 self insurers.

The number and source of these claims are listed below:

Source of New Claims in 2003 Study

, , , , , , , , , , , , , , , , , , , ,		Dates Accidents	Number of
Carrier	of Data	Closed	Claims
Pinnacol	DCI Database	July 1, 2001 to	70
Assurance	DCI Database	June 30, 2002	70
Commercial	DCI Database	July 1, 2001 to	64
Carriers	DCI Dalabase	June 30, 2002	04
Self Insurers	DWC Database	July 1, 2001 to	214
Sell illsurers	DVVC Dalabase	June 30, 2002	214
Total			348

This compares to the last two years as follows:

Comparisons	2001	2002	2003
Pinnacol Assurance	362	247	70
Commercial Carriers	164	174	64
Self Insurers	203	209	214
Total	729	630	348
Regressions	5,263	6,251	7,129

There are fewer claims this year for two reasons - there are fewer new claims that have closed, and there are fewer claims that have been resubmitted due to corrections in the values previously submitted.

For all groups of carriers, we supplemented the primary source of data with a supplementary call for information on the same claims. The Detailed Claim Information (DCI) database is collected by the National Council on Compensation Insurance (NCCI) on a sample basis. The claims are selected randomly based on each insurer's market share. Once selected for inclusion, information must be reported on claims 6 months after accident, and annually thereafter until claims close. The database includes both open and closed claims. We obtained an electronic copy of this NCCI DCI database as of August 2002 for use in this study.

Self insurer data was obtained from the Division of Workers' Compensation, together with the supplemental data request. This sample was generated as follows:

- 1. The manual premium equivalent for the year July 1, 2001 to June 30, 2002 was determined by the DWC for each entity. Self insured employers whose permits had been cancelled or revoked in this time period, as well as those who had been self-insured during part of the year were eliminated. The remaining self insurers were ranked by premium and subdivided into quartiles.
- Cases involving fatality, permanent partial disability, or permanent total disability closing during this year were initially selected. Self-insurers having three or fewer claims were eliminated.
- 3. The Division of Workers Compensation randomly selected two self-insurers from the top quartile, three from the second, five from the third, and twelve from the fourth.

4. Milliman USA, Inc. randomly selected 60 claims from each quartile uniformly from each self-insurer within each quartile.

The claims from Pinnacol Assurance, commercial carriers, and self insurers were combined, cross tabulations were computed and comparisons were made with the results of earlier studies.

For the regression analysis, the data collected from self-insurers for the 1996, and 1998-2002 studies were included. In addition, all closed claims from Pinnacol Assurance and the DCI Database were included. A total of 7,129 claims were used in the regression analysis. Since the DCI Database is cumulative, it is possible that some claims changed in value from the values contained in last year's study. This can occur primarily due to the correction of data, to late payments recorded after a claim has closed, and to a claim reported as closed not previously included due to data reporting lags. We compared the current DCI database to the DCI database included in last year's study. The supplementary data request was collected on all claims in the database that closed prior to July 1, 2002 that were either new or had a change in their values.

EDITING THE RESPONSES

Responses to the request for additional information were received electronically, via floppy disk, or through hard copy. These responses were reviewed for consistency.

The sums of the medical payments of various types (Surgery, PT, prescriptions, etc.) were verified to match the "Total Medical" fields. Where they did not match, the carrier was contacted to clarify the information. Also, where hospital costs were reported but the number of days hospitalized was either coded as zero or was left blank, the carrier was contacted to determine if the hospital cost was due to an outpatient surgery or if a correction to the data was needed.

Several of the other fields were also checked to verify a valid response. "Age of Claimant at Time of Injury," "Date of Birth," "Date of Injury," "Date Claim Closed," "Method of Closure," "Cause of Injury," "Nature of Injury," "Part of Body," "Designator of Medical Provider," "Impairment Rating" and "Benefit Type" are some of the fields that were checked for validity. Again, if a response for any one of these fields was invalid or omitted, we contacted the corresponding carrier to obtain the correct information.

Individual claims were classified as either usable or unusable. Unusable claims were deleted from the database. Many of the unusable claims were deleted because the supplemental medical information received from carriers could not be reconciled with the DCI medical information. Also, several claims were deleted because their current status was open.

Regression analysis is concerned with modeling the relationships between variables. Through the use of regression, we seek to evaluate the relationship between the cost of a claim (indemnity, medical and total) and other potential explanatory variables. Regression can be used to determine whether a particular variable is significant in explaining the cost and the nature of the relationship. In most statistical analysis, including the regressions contained herein, it is common practice to adopt what is called the "Null Hypothesis." The Null Hypothesis is that the variable in question does not affect the outcome (in our case, the cost of a claim). A result is generally called significant if we are able to reject the null hypothesis with 95% certainty. That is, that the statistical model indicated a 5% chance or less that the association could have been caused by randomness alone. In this case, we would say the result was significant at the .05 (5%) level.

In the regression analysis we are attempting to understand as many of the impacts of the explanatory variables as possible. We represent the costs (indemnity, medical, and total) as a multiplicative function of the variables listed. We first transform the multiplicative function to linear by using the natural logarithm of indemnity, medical, and total cost as the dependent variable. This is a common procedure and is preferred for workers compensation losses that often exhibit significant skewness.

To test whether or not a certain variable is significant in explaining the cost of a claim, the regression analysis calculates the t-statistic for the null hypothesis. The t-statistic is

calculated as the ratio of the parameter estimate to the standard error and measures whether or not the parameter estimate is significantly different from 0. We then compare the t-statistic to a critical value which is based on the number of parameters estimated (1 for each variable), and the significance level.

The standard error measures the amount of variation around the value of the parameter.

The sign of the parameter (positive or negative) indicates the direction of the association. If positive, the cost is expected to increase by the value of the parameter estimate for each unit increase in the variable. If the variable is of the yes/no variety, a positive parameter estimate indicates that the cost is expected to be higher by the amount of the parameter estimate in the presence of a yes. Since the dependent variable is a natural logarithm, the parameter estimate represents an increase in the log of the dependent variable of interest. This can be transformed to a percentage change by exponentiation (the inverse of the natural log function). This transformation is as follows:

Percentage Change = $e^{(Parameter\ estimate)}$ -1 x 100%

We also take the natural logarithm of two of the independent (right hand side or explanatory) variables prior to their use in the regression. We use the logs of wage and length to close. When transformed in this fashion, the resulting parameter estimate is an elasticity. An elasticity is a comparison of percentage changes: Elasticity= Percentage change in dependent variable
Percentage change in independent variable

Many of the characteristics above are represented with "dummy" variables. The use of dummy variables is a standard technique to describe variables that entail a true/false or one-of-a-list of choices. An example of the true/false choice is the variable "Claimant is Male." If true, the variable is represented by a 1, and if false, by a 0. Whether or not this variable is significant refers to the change in cost with respect to the alternative. In this case, a "significant" result implies that the alternative, "Claimant is Female," is significant also, with the opposite sign.

The method of closure is an example of the one-of-a-list type of dummy variable. Again, a 1 is used to represent the variable when the condition is true, and a 0 is used when the condition is false. In this situation, we need one less variable than the number of combinations. The variable that does not appear is represented by 0's for all the rest. For example, method of closure was modeled using the following list:

- negotiated settlement,
- admission,
- order,
- and other.

The variable "other" does not explicitly appear. Rather, it is modeled with 0's (false) for the other three, forming the comparison or reference group. In this case, we found that closure types "other" and "order" did not differ significantly in costs. We changed the list so that only settlement and admission were represented by 1's when true. The comparison group then changed to the combination of "order" and "other."

The statistical output from the regression can also be used to consider other combinations without re-running the regressions and changing the base. This technique was used, for example, to determine that permanent partial schedule and "other" benefit type differed significantly in cost.

For each of the regression models that follows we show the variable name, the parameter estimate, the standard error, the t-statistic for the null hypothesis, and the significance level. We have shaded the parameter estimates that are not statistically significant at the .05 level.

We also show the F value and the R² value for each of the models. The F value shows that for each of the models the regression is highly significant. The R² value the proportion of the variation in cost that has been explained by the regression model.

 $\label{eq:Model-Natural Logarithm of Indemnity costs as Linear Function} F \ Statistic= 238.54 \ Prob > F= 0.0001$

 $R^2 = 0.6217$

	•	Parameter		T	Significance
Independent Variable	Freedom	Estimate	Error	Statistic	Prob> T
Tuno of Injury					
Type of Injury Back Sprains and Strains	1	0.5001	0.0322	15.5400	0.0001
All Other Back Injuries	1	0.5678	0.0322	8.8200	0.0001
Intermediate Fractures/Dislocations	1	-0.0315	0.0044	-0.7200	0.4709
Fractures/Dislocations Hands and Digits	1	-0.4008	0.0457	-8.5700	0.4709
Cut/Laceration/Contusion Hand and Finger	1 1	-0.4006	0.0468	-20.6200	0.0001
Sprains/Strains to Lower Body	1	0.1301	0.0473	2.0200	0.0433
Knee Disorders	1	0.1301	0.0331	0.1200	0.9010
Neck & Head	1	0.2564	0.0630	4.0700	0.0001
Major Trauma	1	0.2352	0.0391	6.0200	0.0001
Burns	1	-0.2182	0.1282	-1.7000	0.0888
Dullis	•	0.2102	0.1202	1.7000	0.0000
Type of Industry					
Mining	1	0.1550	0.0849	1.8300	0.0679
Construction	1	0.2168	0.0280	7.7500	0.0001
Transportation	1	0.2292	0.0364	6.2900	0.0001
		-	-		
Claimant Characteristics					
Male	1	0.1342	0.0242	5.5400	0.0001
Wage (Elasticity)	1	0.3863	0.0210	18.3600	0.0001
Married	1	-0.0368	0.0250	-1.4700	0.1412
Time Sensitive Components					
Accident Year	1	0.0260	0.0060	4.2900	0.0001
Length to Close (Elasticity)	1	0.7723	0.0193	40.1100	0.0001
Lag to Report	1	0.0003	0.0001	3.0300	0.0024
Lag to First Indemnity Payment	1	-0.0008	0.0001	-12.8800	0.0001
Type of Carrier					
Pinnacol Assurance Claim	1	0.0192	0.0270	0.7100	0.4783
Self-Insured Claim	1	0.1033	0.0395	2.6200	0.0089
Claim Characteristics (Impact if Yes)					
Claimant Attorney	1	0.1854	0.0271	6.8500	0.0001
Chiropractor Used	1	0.0908	0.0351	2.5900	0.0097
Physical Therapy Used	1	0.1620	0.0220	7.3700	0.0001
Hospital Used	1	0.2386	0.0258	9.2300	0.0001
Vocational Rehabilitation Used	1	0.3956	0.0505	7.8400	0.0001
Surgery Used	1	0.0568	0.0230	2.4700	0.0135
Mothed to Class (Pass is Classed by Order)					
Method to Close (Base is Closed by Order) Settlement	1	0.3315	0.0439	7.5500	0.0001
Admission	1 1	-0.2918	0.0439	-7.1000	0.0001
- Authoriti	 	-0.2310	0.0411	-1.1000	0.0001
Injury Type (Base is Perm. Partial Unscheduled)					
Permanent Total	1	0.7984	0.1220	6.5500	0.0001
Permanent Partial Schedule	1	-0.2626	0.0256	-10.2600	0.0001
Fatal	1	0.7322	0.1453	5.0400	0.0001
Other	1	-0.6922	0.0758	-9.1300	0.0001
	† ·	0.00 <i>LL</i>	5.57.50	5.1000	3.0001
Managed Care Techniques					
Early Report	1	-0.0553	0.0240	-2.3000	0.0213
Case Manager	1	0.1304	0.0230	5.6800	0.0001
Utilization Review	1	0.0661	0.0482	1.3700	0.1701
Intercept	1	-0.6021	0.6182	-0.9700	0.3301
•					

Model - Natural Logarithm of Medical costs as Linear Function F Statistic= R²= 127.74 Prob >F= 0.0001

0.4681

	_	Parameter		Τ	Significance
Independent Variable	Freedom	Estimate	Error	Statistic	Prob> T
Turns of Indiana					
Type of Injury Back Sprains and Strains	1	-0.0134	0.0298	0.4500	0.6536
	1	0.0186	0.0296	-0.4500 0.3100	0.0536
All Other Back Injuries Intermediate Fractures/Dislocations	1	0.01893	0.0396	4.6800	
	1	-0.1097	0.0405	-2.5300	0.0001 0.0114
Fractures/Dislocations Hands and Digits Cut/Laceration/Contusion Hand and Finger	1	-0.1097	0.0438	-6.5100	0.00114
Sprains/Strains to Lower Body	1	-0.2850	0.0436	-1.4600	0.0001
Knee Disorders	1 1	0.2336	0.0390	7.6100	0.0001
Neck & Head	1	0.2330	0.0583	0.7000	0.4850
Major Trauma	1	0.1046	0.0362	2.8900	0.0039
Burns	1	0.2863	0.1187	2.4100	0.0159
Duris	· ·	0.2003	0.1107	2.4100	0.0100
Type of Industry					
Mining	1	0.1009	0.0786	1.2800	0.1993
Construction	1	0.0159	0.0259	0.6100	0.5396
Transportation	1	0.0551	0.0337	1.6300	0.1026
Claimant Characteristics					
Male	1	0.0565	0.0224	2.5200	0.0118
Wage (Elasticity)	1	0.0833	0.0195	4.2800	0.0001
Married	1	-0.0846	0.0232	-3.6500	0.0003
Time Sensitive Components					
Accident Year	1	0.0330	0.0056	5.8900	0.0001
Length to Close (Elasticity)	1	0.6878	0.0178	38.5800	0.0001
Lag to Report	1	0.0004	0.0001	4.8100	0.0001
Lag to First Indemnity Payment	1	-0.0007	0.0001	-11.9800	0.0001
Type of Carrier					
Pinnacol Assurance Claim	1	-0.0402	0.0250	-1.6100	0.1081
Self-Insured Claim	1	0.1916	0.0366	5.2400	0.0001
Claim Characteristics (Impact if Yes)		0.4045	0.0054	4.4700	0.0004
Claimant Attorney	1 1	0.1045	0.0251	4.1700	0.0001
Chiropractor Used	1	0.1021	0.0325	3.1400	0.0017
Physical Therapy Used	1 1	0.3025	0.0204	14.8600	0.0001
Hospital Used Vocational Rehabilitation Used	1	0.5978 0.1786	0.0239 0.0467	24.9900 3.8200	0.0001 0.0001
	1				
Surgery Used	1	0.1410	0.0213	6.6300	0.0001
Method to Close (Base is Closed by Order)					
Settlement	1	0.1597	0.0406	3.9300	0.0001
Admission	1	-0.0018	0.0381	-0.0500	0.9622
Admission		-0.0010	0.0301	-0.0300	0.9022
Injury Type (Base is Perm. Partial Unscheduled)					
Permanent Total	1	0.0910	0.1129	0.8100	0.4204
Permanent Partial Schedule	1	-0.0427	0.0237	-1.8000	0.0718
Fatal	1	-0.8267	0.1345	-6.1500	0.0001
Other	1	-0.7902	0.0702	-11.2500	0.0001
	1	J 002	0.0702	2000	0.0001
Managed Care Techniques					
Early Report	1	0.0007	0.0222	0.0300	0.9735
Case Manager	1	0.1473	0.0213	6.9300	0.0001
Utilization Review	1	0.2879	0.0446	6.4500	0.0001
			- · · ·		
Intercept	1	0.2339	0.5724	0.4100	0.6829
•					

Model - Natural Logarithm of Total costs as Linear Function F Statistic= 272.09 Prob >F= 0.0001

 $R^2 = 0.6521$

	J	Parameter			Significance
Independent Variable	Freedom	Estimate	Error	Statistic	Prob> T
Type of Injury					
Back Sprains and Strains	1	0.2642	0.0242	10.9200	0.0001
All Other Back Injuries	1	0.3041	0.0484	6.2800	0.0001
Intermediate Fractures/Dislocations	1	0.0606	0.0329	1.8400	0.0652
Fractures/Dislocations Hands and Digits	1	-0.2602	0.0352	-7.4000	0.0001
Cut/Laceration/Contusion Hand and Finger	1	-0.5730	0.0355	-16.1200	0.0001
Sprains/Strains to Lower Body	1	-0.0082	0.0484	-0.1700	0.8656
Knee Disorders	1	0.0669	0.0249	2.6800	0.0073
Neck & Head	1	0.1713	0.0474	3.6200	0.0003
Major Trauma	1	0.1740	0.0294	5.9200	0.0001
Burns	1	-0.0249	0.0964	-0.2600	0.7958
Type of Industry					
Type of Industry Mining	1	0.1552	0.0638	2.4300	0.0151
Construction	1	0.1352	0.0038	5.4900	0.0131
Transportation	1	0.1145	0.0274	5.2700	0.0001
ransportation	† '	0.1770	0.0217	0.2700	0.0001
Claimant Characteristics					
Male	1	0.0961	0.0182	5.2800	0.0001
Wage (Elasticity)	1	0.2544	0.0158	16.0800	0.0001
Married	1	-0.0562	0.0188	-2.9800	0.0029
Time Sensitive Components					
Accident Year	1	0.0337	0.0045	7.4300	0.0001
Length to Close (Elasticity)	1	0.7347	0.0145	50.7500	0.0001
Lag to Report	1	0.0003	0.0001	4.1400	0.0001
Lag to First Indemnity Payment	1	-0.0006	0.0000	-13.0100	0.0001
g a g a g a g a g a g					
Type of Carrier		1			
Pinnacol Assurance Claim	1	-0.0309	0.0203	-1.5200	0.1282
Self-Insured Claim	1	0.1419	0.0297	4.7800	0.0001
Claim Characteristics (Impact if Yes)					
Claimant Attorney	1	0.1445	0.0204	7.1000	0.0001
Chiropractor Used	1	0.0799	0.0264	3.0200	0.0025
Physical Therapy Used	1	0.2012	0.0165	12.1700	0.0001
Hospital Used	1	0.3349	0.0194	17.2400	0.0001
Vocational Rehabilitation Used	1	0.3632	0.0379	9.5700	0.0001
Surgery Used	1	0.0780	0.0173	4.5100	0.0001
Mathad to Class (Page is Object by Order)					
Method to Close (Base is Closed by Order) Settlement	1	0.2609	0.0330	7.9100	0.0001
Admission	1	-0.1814	0.0309	-5.8700	0.0001
, connected	+ '	0.1017	0.0000	0.0700	0.0001
Injury Type (Base is Perm. Partial Unscheduled)	<u> </u>				
Permanent Total	1	0.6423	0.0917	7.0000	0.0001
Permanent Partial Schedule	1	-0.1806	0.0192	-9.3800	0.0001
Fatal	1	0.5899	0.1092	5.4000	0.0001
Other	1	-0.5310	0.0570	-9.3100	0.0001
Managed Care Techniques					
Early Report	1	-0.0246	0.0180	-1.3700	0.1723
Case Manager	1	0.1429	0.0173	8.2800	0.0001
Utilization Review	1	0.1382	0.0362	3.8100	0.0001
Intercept	1	0.2544	0.4649	0.5500	0.5842

TABLE 1

AVERAGE COSTS

See Table 8 for 2003 data used in Charts 1a, 1b, and 1c.

Prior Data from 2001 and 2002 Studies.

TABLE 2

CLAIM SIZE

See Table 9 for 2003 data used in Chart 2.

Prior Data from 2001 and 2002 Studies.

TABLE 3

DISTRIBUTION BY ACCIDENT YEAR AND CARRIER

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
Indemnity										
	Cla	aim Coun	t	& 1	Medical Cos	t	Aı	verage Cost	per Claim	
Accident	Pinnacol	Comm.	Self	Pinnacol	Comm.	Self	Pinnacol	Comm.	Self	
Year	Assurance	Carrier	Insured	Assurance	Carrier	Insured	Assurance	Carrier	Insured	Total
							(5)/(2)	(6)/(3)	(7)/(4)	
1992	0	0	1	0	0	146,745	0	0	146,745	146,745
1993	0	1	1	0	52,987	137,759	0	52,987	137,759	95,373
1994	2	4	0	183,275	295,975	0	91,638	73,994	0	79,875
1995	4	4	0	680,007	490,775	0	170,002	122,694	0	146,348
1996	1	5	3	182,037	417,297	152,775	182,037	83,459	50,925	83,568
1997	14	5	5	1,137,824	267,507	611,412	81,273	53,501	122,282	84,031
1998	16	16	15	1,146,393	1,216,084	870,839	71,650	76,005	58,056	68,794
1999	33	29	26	2,104,068	1,251,792	1,360,634	63,760	43,165	52,332	53,597
2000	0	0	72	0	0	2,801,683	0	0	38,912	38,912
2001	0	0	83	0	0	1,644,326	0	0	19,811	19,811
2002	0	0	7	0	0	51,473	0	0	7,353	7,353
Totals Pre SB 218	0	0	2	0	0	226,106	0	0	113,053	113,053
Totals Post SB 218	70	64	213	5,433,604	3,992,417	7,777,646	77,623	62,382	36,515	49,578
Totals/Average	70	64	215	5,433,604	3,992,417	8,003,752	77,623	62,382	37,227	49,942

NOTE: (11) Equals the sum of Cols (5) through (7) divided by the sum of Cols (2) through (4).

TABLE 4

METHOD OF CLOSURE

(1)	(2)	(3)	(4)	(5)	(6)
Method of Closure	Count	%	Average Indemnity	Average Medical	Average Indemnity & Medical
			•		(4)+(5)
Negotiated Settlement	122	35.1%	52,379	22,855	75,234
Admission	201	57.8%	18,298	14,182	32,480
Order	21	6.0%	37,517	26,015	63,531
Other	1	0.3%	55,949	72,630	128,579
Not Reported	3	0.9%	53,204	11,002	64,206
Total / Average	348	100.0%	31,815	18,049	49,864

TABLE 5

ATTORNEY INVOLVEMENT

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Indemnity	Percent	Average Cost
Claimant Attorney Involvement	of Claims	of Claims	& Medical Cost	of Cost	of Claims
Pinnacol Assurance					(4)/(2)
Claimant Attorney	50	14%	4,260,622	25%	85,212
No Claimant Attorney	20	6%	1,172,982	7%	58,649
Unknown	0	0%	0	0%	55,515
Total	70	20%	5,433,604	31%	77,623
Commercial					
Claimant Attorney	21	6%	1,337,763	8%	63,703
No Claimant Attorney	43	12%	2,654,654	15%	61,736
Unknown	0	0%	0	0%	
Total	64	18%	3,992,417	23%	62,382
Self Insurer					
Claimant Attorney	72	21%	4,095,493	24%	56,882
No Claimant Attorney	142	41%	3,795,206	22%	26,727
Unknown	0	0%	0	0%	
Total	214	61%	7,890,699	46%	36,872
All Carriers					
Claimant Attorney	143	41%	9,693,878	56%	67,789
No Claimant Attorney	205	59%	7,622,842	44%	37,185
Unknown	0	0%	0	0%	
Total	348	100%	17,316,720	100%	49,761

TABLE 6

CHIROPRACTOR INVOLVEMENT

See Table 17 for 2003 data used in Charts 6c.

Prior Data from 2001 and 2002 Studies.

TABLE 7 **DISTRIBUTION BY TYPE OF COST**

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Type of Cost	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Total Indemnity	348	100%	11,071,695	61%	31,815
Total Medical	346	99%	6,245,025	35%	18,049
Total Vocational Rehab	7	2%	13,552	0%	1,936
Total Lump Sum Payments	135	39%	2,575,388		19,077
Total Expenses	206	59%	694,901	4%	3,373
Totals/Average	348		18,025,173		51,796

Note: Lump Sum Payments not included in Total

TABLE 8, SHEET 1

DISTRIBUTION BY TYPE OF CARRIER TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Type of Carrier	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Pinnacol Assurance	70	20%	5,647,667	31%	80,681
Commercial Insurers	64	18%	4,230,471	24%	66,101
Self Insurers	214	62%	8,147,035	45%	38,070
Totals/Average	348		18,025,173		51,796

TABLE 8, SHEET 2

DISTRIBUTION BY TYPE OF CARRIER INDEMNITY DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims
			(3)/(2)
Pinnacol Assurance	70	3,829,155	54,702
Commercial Insurers	64	2,519,622	39,369
Self Insurers	214	4,722,918	22,070
Totals/Average	348	11,071,695	31,815

TABLE 8, SHEET 3

DISTRIBUTION BY TYPE OF CARRIER LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims
			(3)/(2)
Pinnacol Assurance	52	703,153	13,522
Commercial Insurers	29	469,409	16,187
Self Insurers	54	1,402,826	25,978
Totals/Average	135	2,575,388	19,077

TABLE 8, SHEET 4

DISTRIBUTION BY TYPE OF CARRIER MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims
			(3)/(2)
Pinnacol Assurance	70	1,604,449	22,921
Commercial Insurers	64	1,472,795	23,012
Self Insurers	212	3,167,781	14,942
Totals/Average	346	6,245,025	18,049

TABLE 8, SHEET 5

DISTRIBUTION BY TYPE OF CARRIER VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
T	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims (3)/(2)
Pinnacol Assurance	1	489	489
Commercial Insurers	2	6,236	3,118
Self Insurers	4	6,827	1,707
Totals/Average	7	13,552	1,936

TABLE 8, SHEET 6

DISTRIBUTION BY TYPE OF CARRIER EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims
			(3)/(2)
Pinnacol Assurance	67	213,574	3,188
Commercial Insurers	62	231,818	3,739
Self Insurers	77	249,509	3,240
Totals/Average	206	694,901	3,373

TABLE 9, SHEET 1

DISTRIBUTION BY SIZE OF CLAIM

(1)		(2)	(3)	(4)	(5)	(6)
Size of C	laim	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(4)/(2)
Up to	1,000	0	0%	0	0%	
1,001 -	5,000	14	4%	36,491	0%	2,607
5,001 -	10,000	28	8%	211,896	1%	7,568
10,001 -	20,000	59	17%	863,617	5%	14,638
20,001 -	30,000	45	13%	1,101,564	6%	24,479
30,001 -	40,000	38	11%	1,330,542	7%	35,014
40,001 -	50,000	37	11%	1,703,601	9%	46,043
50,001 -	60,000	25	7%	1,367,427	8%	54,697
60,001 -	70,000	22	6%	1,437,176	8%	65,326
70,001 -	80,000	12	3%	911,748	5%	75,979
80,001 -	90,000	14	4%	1,177,965	7%	84,140
90,001 -	100,000	9	3%	848,874	5%	94,319
100,001 -	125,000	18	5%	1,986,517	11%	110,362
125,001 -	150,000	9	3%	1,279,065	7%	142,118
150,001 -	175,000	5	1%	780,890	4%	156,178
175,001 -	250,000	8	2%	1,666,882	9%	208,360
250,001 -	400,000	5	1%	1,320,918	7%	264,184
Over	400,000	0	0%	0	0%	0
				10.025.153		51.506

 Totals\Average
 348
 18,025,173
 51,796

TABLE 9, SHEET 2

DISTRIBUTION BY SIZE OF CLAIM - PINNACOL ASSURANCE

(1)		(2)	(3)	(4)	(5)	(6)
Size of Cl	aim	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(4)/(2)
Up to	1,000	0	0%	0	0%	
1,001 -	5,000	0	0%	0	0%	0
5,001 -	10,000	2	3%	15,205	0%	7,603
10,001 -	20,000	7	10%	95,863	2%	13,695
20,001 -	30,000	4	6%	102,566	2%	25,642
30,001 -	40,000	8	11%	294,150	5%	36,769
40,001 -	50,000	7	10%	308,038	5%	44,005
50,001 -	60,000	5	7%	269,960	5%	53,992
60,001 -	70,000	6	9%	393,350	7%	65,558
70,001 -	80,000	4	6%	313,827	6%	78,457
80,001 -	90,000	4	6%	345,002	6%	86,251
90,001 -	100,000	6	9%	570,091	10%	95,015
100,001 -	125,000	4	6%	435,016	8%	108,754
125,001 -	150,000	5	7%	706,849	13%	141,370
150,001 -	175,000	1	1%	151,928	3%	151,928
175,001 -	250,000	4	6%	875,851	16%	218,963
250,001 -	400,000	3	4%	769,971	14%	256,657
Over	400,000	0	0%	0	0%	0
T . 1 \ 1		70		5 (17 (67		00.601

Totals\Average 70 5,647,667 80,681

TABLE 9, SHEET 3

DISTRIBUTION BY SIZE OF CLAIM - COMMERCIAL INSURERS

(1)		(2)	(3)	(4)	(5)	(6)
Size of C	laim	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(4)/(2)
Up to	1,000	0	0%	0	0%	
1,001 -	5,000	0	0%	0	0%	0
5,001 -	10,000	0	0%	0	0%	0
10,001 -	20,000	2	3%	24,737	1%	12,369
20,001 -	30,000	9	14%	234,009	6%	26,001
30,001 -	40,000	8	13%	277,230	7%	34,654
40,001 -	50,000	11	17%	501,145	12%	45,559
50,001 -	60,000	8	13%	427,979	10%	53,497
60,001 -	70,000	5	8%	331,678	8%	66,336
70,001 -	80,000	2	3%	157,515	4%	78,758
80,001 -	90,000	4	6%	339,831	8%	84,958
90,001 -	100,000	1	2%	90,997	2%	90,997
100,001 -	125,000	9	14%	1,013,357	24%	112,595
125,001 -	150,000	2	3%	275,680	7%	137,840
150,001 -	175,000	1	2%	161,205	4%	161,205
175,001 -	250,000	2	3%	395,108	9%	197,554
250,001 -	400,000	0	0%	0	0%	0
Over	400,000	0	0%	0	0%	0

 Totals\Average
 64
 4,230,471
 66,101

TABLE 9, SHEET 4

DISTRIBUTION BY SIZE OF CLAIM - SELF INSURERS

(1)		(2)	(3)	(4)	(5)	(6)
Size of C	laim	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(4)/(2)
Up to	1,000	0	0%	0	0%	
1,001 -	5,000	14	7%	36,491	0%	2,607
5,001 -	10,000	26	12%	196,691	2%	7,565
10,001 -	20,000	50	23%	743,017	9%	14,860
20,001 -	30,000	32	15%	764,989	9%	23,906
30,001 -	40,000	22	10%	759,162	9%	34,507
40,001 -	50,000	19	9%	894,418	11%	47,075
50,001 -	60,000	12	6%	669,488	8%	55,791
60,001 -	70,000	11	5%	712,148	9%	64,741
70,001 -	80,000	6	3%	440,406	5%	73,401
80,001 -	90,000	6	3%	493,132	6%	82,189
90,001 -	100,000	2	1%	187,786	2%	93,893
100,001 -	125,000	5	2%	538,144	7%	107,629
125,001 -	150,000	2	1%	296,536	4%	148,268
150,001 -	175,000	3	1%	467,757	6%	155,919
175,001 -	250,000	2	1%	395,923	5%	197,962
250,001 -	400,000	2	1%	550,947	7%	275,474
Over	400,000	0	0%	0	0%	0
				0.145.025		20.050

 Totals\Average
 214
 8,147,035
 38,070

TABLE 10, SHEET 1

DISTRIBUTION BY METHOD OF CLOSURE TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(5)/(3)
Pinnacol	Negotiated Settlement	35	51%	3,610,292	66%	103,151
Assurance	Admission	29	43%	1,446,116	26%	49,866
	Order	4	6%	404,461	7%	101,115
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	32	50%	2,291,499	54%	71,609
Insurers	Admission	14	22%	808,661	19%	57,762
	Order	17	27%	1,000,379	24%	58,846
	Other	1	2%	129,932	3%	129,932
	Not Reported	0	0%	0	0%	
Self	Negotiated Settlement	55	26%	3,698,907	45%	67,253
Insurers	Admission	158	74%	4,441,137	55%	28,108
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	1	0%	6,991	0%	6,991
All Carriers	Negotiated Settlement	122	35%	9,600,698	53%	78,694
	Admission	201	58%	6,695,914	37%	33,313
	Order Other	21	6% 0%	1,404,840	8% 1%	66,897
	Not Reported	1 3	0% 1%	129,932 193,789	1%	129,932 64,596
Totals/Average	, tot i topoliou	348	1,0	18,025,173	. 70	51,796

TABLE 10, SHEET 2

DISTRIBUTION BY METHOD OF CLOSURE INDEMNITY DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims (5)/(3)
Pinnacol	Negotiated Settlement	35	51%	2,574,842	70%	73,567
Assurance	Admission	29	43%	909,515	25%	31,363
	Order	4	6%	189,185	5%	47,296
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	32	50%	1,443,146	57%	45,098
Insurers	Admission	14	22%	421,862	17%	30,133
	Order	17	27%	598,665	24%	35,216
	Other	1	2%	55,949	2%	55,949
	Not Reported	0	0%	0	0%	
Self	Negotiated Settlement	55	26%	2,372,298	50%	43,133
Insurers	Admission	158	74%	2,346,620	50%	14,852
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	1	0%	4,000	0%	4,000
All Carriers	Negotiated Settlement	122	35%	6,390,286	58%	52,379
	Admission	201	58% 6%	3,677,997	33% 7%	18,298
	Order Other	21 1	6% 0%	787,850 55,949	7% 1%	37,517 55,949
	Not Reported	3	1%	159,613	1%	53,204
Totals/Average	·	348		11,071,695		31,815

TABLE 10, SHEET 3

DISTRIBUTION BY METHOD OF CLOSURE LUMP SUM DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
						(5)/(3)
Pinnacol	Negotiated Settlement	22	43%	322,191	47%	14,645
Assurance	Admission	26	51%	281,503	41%	10,827
	Order	3	6%	76,253	11%	25,418
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	17	59%	331,100	71%	19,476
Insurers	Admission	5	17%	51,840	11%	10,368
	Order	7	24%	86,469	18%	12,353
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Self	Negotiated Settlement	51	94%	1,364,290	97%	26,751
Insurers	Admission	2	4%	34,536	2%	17,268
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	1	2%	4,000	0%	4,000
All Carriers	Negotiated Settlement	90	67%	2,017,581	78%	22,418
	Admission	33	24%	367,879	14%	11,148
	Order	10	7%	162,722	6%	16,272
	Other Not Reported	0 2	0% 1%	0 27,206	0% 1%	13,603
Totals/Average	Not Neported	135	1 /0	2,575,388	1 /0	19,077

TABLE 10, SHEET 4

DISTRIBUTION BY METHOD OF CLOSURE MEDICAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims (5)/(3)
						(-), (-)
Pinnacol	Negotiated Settlement	35	51%	903,842	57%	25,824
Assurance	Admission	29	43%	479,233	30%	16,525
	Order	4	6%	191,081	12%	47,770
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	32	50%	689,267	47%	21,540
Insurers	Admission	14	22%	355,669	24%	25,405
	Order	17	27%	355,229	24%	20,896
	Other	1	2%	72,630	5%	72,630
	Not Reported	0	0%	0	0%	ŕ
Self	Negotiated Settlement	53	25%	1,149,435	36%	21,687
Insurers	Admission	158	75%	2,015,633	64%	12,757
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	1	0%	2,713	0%	2,713
All Carriers	Negotiated Settlement Admission	120 201	35% 58%	2,742,544	44% 46%	22,855
	Admission Order	201 21	58% 6%	2,850,535 546,310	46% 9%	14,182 26,015
	Other	1	0%	72,630	1%	72,630
	Not Reported	3	1%	33,006	1%	11,002
Totals/Average		346		6,245,025		18,049

TABLE 10, SHEET 5

DISTRIBUTION BY METHOD OF CLOSURE VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims (5)/(3)
						(-)-(-)
Pinnacol	Negotiated Settlement	1	100%	489	100%	489
Assurance	Admission	0	0%	0	0%	
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	1	50%	4,883	78%	4,883
Insurers	Admission	0	0%	0	0%	
	Order	0	0%	0	0%	
	Other	1	50%	1,353	22%	1,353
	Not Reported	0	0%	0	0%	
Self	Negotiated Settlement	2	50%	1,646	24%	823
Insurers	Admission	2	50%	5,181	76%	2,591
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
All Carriers	Negotiated Settlement	4	57%	7,018	52%	1,755
	Admission	2	29%	5,181	38%	2,591
	Order Other	0 1	0% 14%	0 1,353	0% 10%	1 252
	Not Reported	0	14% 0%	1,353	0%	1,353
Totals/Average		7		13,552		1,936

TABLE 10, SHEET 6

DISTRIBUTION BY METHOD OF CLOSURE EXPENSE DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Carrier	Method of Closure	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
Pinnacol	Negotiated Settlement	35	53%	131,119	62%	3,746
Assurance	Admission	27	41%	57,368	27%	2,125
	Order	4	6%	24,195	11%	6,049
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Commercial	Negotiated Settlement	32	52%	154,203	67%	4,819
Insurers	Admission	13	21%	31,130	13%	2,395
	Order	17	27%	46,485	20%	2,734
	Other	0	0%	0	0%	
	Not Reported	0	0%	0	0%	
Self	Negotiated Settlement	35	45%	175,528	70%	5,015
Insurers	Admission	41	53%	73,703	30%	1,798
	Order	0	0%	0	0%	
	Other	0	0%	0	0%	
	Not Reported	1	1%	278	0%	278
All Carriers	Negotiated Settlement	102	50%	460,850	66%	4,518
	Admission	81	39%	162,201	23%	2,002
	Order	21	10%	70,680	10%	3,366
	Other Not Reported	0 2	0% 1%	0 1,170	0% 0%	585
Totals/Average	riot reported	206	1 /0	694,901	J /0	3,373

TABLE 11, SHEET 1

DISTRIBUTION BY CAUSE OF INJURY TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
, , , , , , , , , , , , , , , , , , ,	J		J	V	(4)/(2)
BURN OR SCALD - HEAT OR COL	LD EXPOSU	J RE			
Acid Chemicals	0	0.0%	0	0.0%	
Contact with Hot Objects	0	0.0%	0	0.0%	
Temperature Extremes	0	0.0%	0	0.0%	
Fire or Flame	0	0.0%	0	0.0%	
Steam or Hot Fluids	0	0.0%	0	0.0%	
Dust, Fumes, Gas, or Vapors	0	0.0%	0	0.0%	
Welding Operations	0	0.0%	0	0.0%	
Radiation	0	0.0%	0	0.0%	
Misc - Burn	0	0.0%	0	0.0%	
SUBTOTAL - BURN	0	0.0%	0	0.0%	
CAUGHT IN OR BETWEEN					
Machine or Machinery	6	1.7%	525,609	2.9%	87,602
Object Handled	0	0.0%	0	0.0%	- ,
Misc - Caught	4	1.1%	170,033	0.9%	42,508
SUBTOTAL - CAUGHT	10	2.9%	695,642	3.9%	69,564
CUT, PUNCTURE, SCRAPE INJUR	ED BY				
Broken Glass	0	0.0%	0	0.0%	
Hand Tool, Utensil; Not Powered	1	0.3%	7,977	0.0%	7,977
Powered Hand Tool	1	0.3%	13,693	0.1%	13,693
Misc - Cut	2	0.6%	49,798	0.3%	24,899
SUBTOTAL - CUT	4	1.1%	71,468	0.4%	17,867
FALL OR SLIP INJURY					
From a Different Level	14	4.0%	1,133,514	6.3%	80,965
From a Ladder or Scaffolding	10	2.9%	732,187	4.1%	73,219
From Liquid or Grease Spills	7	2.0%	390,097	2.2%	55,728
On Same Level	6	1.7%	282,189	1.6%	47,032
Slipped, Did Not Fall	4	1.1%	326,528	1.8%	81,632
Misc - Fall/Slip	28	8.0%	1,357,538	7.5%	48,484
SUBTOTAL - FALL/SLIP	69	19.8%	4,222,053	23.4%	61,189
MOTOR VEHICLE					
Collision with Another Vehicle	11	3.2%	635,158	3.5%	57,742
Collision with a Fixed Object	1	0.3%	30,391	0.2%	30,391
Collision with a Fixed Object Crash of Airplane		0.3%	30,391 0	0.2%	30,391
•	0 2	0.6%			64 224
Vehicle Upset Misc - Vehicle	2 7		122,442 382,615	0.7%	61,221 54,650
		2.0%	,	2.1%	54,659
SUBTOTAL - VEHICLE	21	6.0%	1,170,606	6.5%	55,743

TABLE 11, SHEET 1 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
- January Jany	- J	<i>y</i>	. y	. ,	(4)/(2)
STRAIN OR INJURY BY					
Jumping	0	0.0%	0	0.0%	
Holding or Carrying	12	3.4%	665,419	3.7%	55,452
Lifting	52	14.9%	2,938,838	16.3%	56,516
Pushing or Pulling	14	4.0%	860,989	4.8%	61,499
Reaching	2	0.6%	48,855	0.3%	24,428
Using Tool or Machine	3	0.9%	141,794	0.8%	47,265
Misc - Strain	42	12.1%	2,185,418	12.1%	52,034
SUBTOTAL - STRAIN	125	35.9%	6,841,313	38.0%	54,731
STRIKING AGAINST OR STEPPING	GON				
Moving Parts of Machine	1	0.3%	114,130	0.6%	114,130
Objects Being Lifted or Handled	0	0.0%	0	0.0%	,
Sanding, Scraping, Cleaning	0	0.0%	0	0.0%	
Stationary Object	2	0.6%	113,370	0.6%	56,685
Stepping on Sharp Object	0	0.0%	0	0.0%	,
Misc - Striking Against	3	0.9%	108,171	0.6%	36,057
SUBTOTAL - STRIKING AGAINST	6	1.7%	335,671	1.9%	55,945
STRUCK OR INJURED BY					
Falling or Flying Object	7	2.0%	318,183	1.8%	45,455
Hand Tool or Machine in Use	0	0.0%	0	0.0%	10, 100
Motor Vehicle	3	0.9%	338,358	1.9%	112,786
Moving Parts of Machine	1	0.3%	19,711	0.1%	19,711
Objects Being Lifted or Handled	2	0.6%	84,248	0.5%	42,124
Objects Handled by Others	2	0.6%	87,673	0.5%	43,837
Misc - Struck	7	2.0%	326,877	1.8%	46,697
SUBTOTAL - STRUCK	22	6.3%	1,175,050	6.5%	53,411
MISCELLANEOUS CAUSES					
Contact with Electric Current	0	0.0%	0	0.0%	
Animal or Insect	0 1	0.0%	2,524	0.0%	2,524
Explosion or Flare Back	0	0.3%	2,324	0.0%	2,524
•					
Foreign Body in Eye Robbery or Criminal Assault	0 2	0.0% 0.6%	0 59,113	0.0% 0.3%	20 557
Repetitive Motion	20	0.6% 5.7%		0.3% 2.4%	29,557 21,864
Cumulative (NOC)	20 15	5.7% 4.3%	437,288	2.4% 2.6%	21,864 30,866
	53	4.3% 15.2%	462,997 2 551 448	2.6% 14.2%	
Other (NOC) SUBTOTAL - MISCELLANEOUS	91	15.2% 26.1%	2,551,448 3,513,370	14.2% 19.5%	48,141 38,608
SODIOTAL - MISCELLANEOUS	31	4 0.1/0	3,313,310	13.370	30,000

Totals/Average 348 18,025,173 51,796

TABLE 11, SHEET 2

DISTRIBUTION BY CAUSE OF INJURY INDEMNITY DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
, , , , , , , , , , , , , , , , , , ,	y		J	J	(4)/(2)
BURN OR SCALD - HEAT OR COL	D EXPOSURE	2			
Acid Chemicals	0	0.0%	0	0.0%	
Contact with Hot Objects	0	0.0%	0	0.0%	
Temperature Extremes	0	0.0%	0	0.0%	
Fire or Flame	0	0.0%	0	0.0%	
Steam or Hot Fluids	0	0.0%	0	0.0%	
Dust, Fumes, Gas, or Vapors	0	0.0%	0	0.0%	
Welding Operations	0	0.0%	0	0.0%	
Radiation	0	0.0%	0	0.0%	
Misc - Burn	0	0.0%	0	0.0%	
SUBTOTAL - BURN	0	0.0%	0	0.0%	
CAUGHT IN OR BETWEEN					
Machine or Machinery	6	1.7%	282,850	2.6%	47,142
Object Handled	Ö	0.0%	0	0.0%	77,172
Misc - Caught	4	1.1%	75,318	0.7%	18,830
SUBTOTAL - CAUGHT	10	2.9%	358,168	3.2%	35,817
	D D.				
CUT, PUNCTURE, SCRAPE INJURE		0.00/	•	0.00/	
Broken Glass	0	0.0%	0	0.0%	000
Hand Tool, Utensil; Not Powered	1	0.3%	266	0.0%	266
Powered Hand Tool	1	0.3%	2,736	0.0%	2,736
Misc - Cut	2	0.6%	21,429	0.2%	10,715
SUBTOTAL - CUT	4	1.1%	24,431	0.2%	6,108
FALL OR SLIP INJURY					
From a Different Level	14	4.0%	669,123	6.0%	47,795
From a Ladder or Scaffolding	10	2.9%	498,987	4.5%	49,899
From Liquid or Grease Spills	7	2.0%	223,847	2.0%	31,978
On Same Level	6	1.7%	184,799	1.7%	30,800
Slipped, Did Not Fall	4	1.1%	295,737	2.7%	73,934
Misc - Fall/Slip	28	8.0%	772,742	7.0%	27,598
SUBTOTAL - FALL/SLIP	69	19.8%	2,645,235	23.9%	38,337
MOTOR VEHICLE					
Collision with Another Vehicle	11	3.2%	419,213	3.8%	38,110
	1	3.2% 0.3%	·	0.2%	· ·
Collision with a Fixed Object		0.3%	26,396	0.2% 0.0%	26,396
Crash of Airplane	0		0 81,598		40.700
Vehicle Upset	2 7	0.6%	,	0.7%	40,799
Misc - Vehicle		2.0%	165,484	1.5%	23,641
SUBTOTAL - VEHICLE	21	6.0%	692,691	6.3%	32,985

TABLE 11, SHEET 2 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY INDEMNITY DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
	.,		<i>y</i>	. y	(4)/(2)
STRAIN OR INJURY BY					
Jumping	0	0.0%	0	0.0%	
Holding or Carrying	12	3.4%	345,168	3.1%	28,764
Lifting	52	14.9%	1,983,067	17.9%	38,136
Pushing or Pulling	14	4.0%	497,793	4.5%	35,557
Reaching	2	0.6%	37,025	0.3%	18,513
Using Tool or Machine	3	0.9%	96,498	0.9%	32,166
Misc - Strain	42	12.1%	1,455,459	13.1%	34,654
SUBTOTAL - STRAIN	125	35.9%	4,415,010	39.9%	35,320
STRIKING AGAINST OR STEPPING	ON				
Moving Parts of Machine	1	0.3%	59,590	0.5%	59,590
Objects Being Lifted or Handled	Ö	0.0%	00,000	0.0%	00,000
Sanding, Scraping, Cleaning	Ö	0.0%	0	0.0%	
Stationary Object	2	0.6%	18,844	0.2%	9,422
Stepping on Sharp Object	0	0.0%	0	0.0%	5,422
Misc - Striking Against	3	0.9%	49,305	0.4%	16,435
SUBTOTAL - STRIKING AGAINST	6	1.7%	127,739	1.2%	21,290
STRUCK OR INJURED BY	_	0.00/	475 404	4.007	05.000
Falling or Flying Object	7	2.0%	175,181	1.6%	25,026
Hand Tool or Machine in Use	0	0.0%	0	0.0%	00.407
Motor Vehicle	3	0.9%	241,461	2.2%	80,487
Moving Parts of Machine	1	0.3%	1,010	0.0%	1,010
Objects Being Lifted or Handled	2	0.6%	44,021	0.4%	22,011
Objects Handled by Others	2	0.6%	57,484	0.5%	28,742
Misc - Struck	7	2.0%	156,681	1.4%	22,383
SUBTOTAL - STRUCK	22	6.3%	675,838	6.1%	30,720
MISCELLANEOUS CAUSES					
Contact with Electric Current	0	0.0%	0	0.0%	
Animal or Insect	1	0.3%	1,841	0.0%	1,841
Explosion or Flare Back	0	0.0%	0	0.0%	
Foreign Body in Eye	0	0.0%	0	0.0%	
Robbery or Criminal Assault	2	0.6%	24,359	0.2%	12,180
Repetitive Motion	20	5.7%	245,557	2.2%	12,278
Cumulative (NOC)	15	4.3%	233,904	2.1%	15,594
Other (NOC)	53	15.2%	1,626,922	14.7%	30,697
SUBTOTAL - MISCELLANEOUS	91	26.1%	2,132,583	19.3%	23,435

Totals/Average 348 11,071,695 31,815

TABLE 11, SHEET 3

DISTRIBUTION BY CAUSE OF INJURY LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
	oj etainis	oj etamis	(3)/(2)
BURN OR SCALD - HEAT OR COLD EXI	POSURE		
Acid Chemicals	0	0	
Contact with Hot Objects	0	0	
Temperature Extremes	0	0	
Fire or Flame	0	0	
Steam or Hot Fluids	0	0	
Dust, Fumes, Gas, or Vapors	0	0	
Welding Operations	0	0	
Radiation	0	0	
Misc - Burn	0	0	
SUBTOTAL - BURN	0	0	
CAUGHT IN OR BETWEEN			
Machine or Machinery	3	3,884	1,295
Object Handled	0	0	1,200
Misc - Caught	1	11,482	11,482
SUBTOTAL - CAUGHT	4	15,366	3,842
CUT, PUNCTURE, SCRAPE INJURED BY			
Broken Glass	0	0	
Hand Tool, Utensil; Not Powered	0	0	
Powered Hand Tool	0	0	
Misc - Cut	1	8,754	8,754
SUBTOTAL - CUT	1	8,754	8,754
SUBTOTAL - CUI	•	0,734	6,754
FALL OR SLIP INJURY			
From a Different Level	7	244,548	34,935
From a Ladder or Scaffolding	8	226,869	28,359
From Liquid or Grease Spills	3	16,504	5,501
On Same Level	3	45,323	15,108
Slipped, Did Not Fall	2	167,000	83,500
Misc - Fall/Slip	12	139,174	11,598
SUBTOTAL - FALL/SLIP	35	839,418	23,983
MOTOR VEHICLE			
Collision with Another Vehicle	5	137,545	27,509
Collision with a Fixed Object	0	0	,
Crash of Airplane	0	0	
Vehicle Upset	1	10,000	10,000
Misc - Vehicle	1	14,365	14,365
SUBTOTAL - VEHICLE	7	161,910	23,130

TABLE 11, SHEET 3 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
			(3)/(2)
STRAIN OR INJURY BY			
Jumping	0	0	
Holding or Carrying	3	3,829	1,276
Lifting	26	419,085	16,119
Pushing or Pulling	5	57,918	11,584
Reaching	0	0	
Using Tool or Machine	3	53,076	17,692
Misc - Strain	18	423,569	23,532
SUBTOTAL - STRAIN	55	957,477	17,409
STRIKING AGAINST OR STEPPING ON			
Moving Parts of Machine	1	32,925	32,925
Objects Being Lifted or Handled	0	0	,
Sanding, Scraping, Cleaning	0	0	
Stationary Object	0	0	
Stepping on Sharp Object	0	0	
Misc - Striking Against	0	0	
SUBTOTAL - STRIKING AGAINST	1	32,925	32,925
STRUCK OR INJURED BY			
Falling or Flying Object	1	1,000	1,000
Hand Tool or Machine in Use	Ö	0	1,000
Motor Vehicle	2	170,000	85,000
Moving Parts of Machine	0	0	00,000
Objects Being Lifted or Handled	0	0	
Objects Handled by Others	1	5,863	5,863
Misc - Struck	5	36,618	7,324
SUBTOTAL - STRUCK	9	213,481	23,720
MISCELLANEOUS CAUSES			
Contact with Electric Current	0	0	
Animal or Insect	0	0	
Explosion or Flare Back	0	0	
Foreign Body in Eye	Ö	0	
Robbery or Criminal Assault	0	0	
Repetitive Motion	3	50,530	16,843
Cumulative (NOC)	3	49,000	16,333
Other (NOC)	17	246,527	14,502
SUBTOTAL - MISCELLANEOUS	23	346,057	15,046

TABLE 11, SHEET 4

DISTRIBUTION BY CAUSE OF INJURY MEDICAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
y y	- ,	. ,	. y	.,	(4)/(2)
BURN OR SCALD - HEAT OR COL	D EXPOSU	JRE			
Acid Chemicals	0	0.0%	0	0.0%	
Contact with Hot Objects	0	0.0%	0	0.0%	
Temperature Extremes	0	0.0%	0	0.0%	
Fire or Flame	0	0.0%	0	0.0%	
Steam or Hot Fluids	0	0.0%	0	0.0%	
Dust, Fumes, Gas, or Vapors	0	0.0%	0	0.0%	
Welding Operations	0	0.0%	0	0.0%	
Radiation	0	0.0%	0	0.0%	
Misc - Burn	0	0.0%	0	0.0%	
SUBTOTAL - BURN	0	0.0%	0	0.0%	
CAUGHT IN OR BETWEEN					
Machine or Machinery	6	1.7%	221,734	3.6%	36,956
Object Handled	0	0.0%	0	0.0%	-,
Misc - Caught	4	1.2%	87,925	1.4%	21,981
SUBTOTAL - CAUGHT	10	2.9%	309,659	5.0%	30,966
CUT, PUNCTURE, SCRAPE INJURE	ED BY				
Broken Glass	0	0.0%	0	0.0%	
Hand Tool, Utensil; Not Powered	1	0.3%	7,711	0.1%	7,711
Powered Hand Tool	1	0.3%	10,957	0.2%	10,957
Misc - Cut	2	0.6%	27,774	0.4%	13,887
SUBTOTAL - CUT	4	1.2%	46,442	0.7%	11,611
FALL OR SLIP INJURY					
From a Different Level	14	4.0%	418,373	6.7%	29,884
From a Ladder or Scaffolding	10	2.9%	214,067	3.4%	21,407
From Liquid or Grease Spills	7	2.0%	149,412	2.4%	21,345
On Same Level	6	1.7%	72,279	1.2%	12,047
Slipped, Did Not Fall	4	1.2%	27,399	0.4%	6,850
Misc - Fall/Slip	28	8.1%	538,232	8.6%	19,223
SUBTOTAL - FALL/SLIP	69	19.9%	1,419,762	22.7%	20,576
MOTOR VEHICLE					
Collision with Another Vehicle	11	3.2%	203,741	3.3%	18,522
Collision with a Fixed Object	1	0.3%	3,995	0.1%	3,995
Crash of Airplane	0	0.0%	0,995	0.0%	0,000
Vehicle Upset	2	0.6%	35,925	0.6%	17,963
Misc - Vehicle	7	2.0%	196,168	3.1%	28,024
SUBTOTAL - VEHICLE	21	6.1%	439,829	7.0%	20,944

TABLE 11, SHEET 4 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY MEDICAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Cause of Injury	of Claims	of Claims	of Claims	of Dollars	of Claims
	J	J	<i>y</i>	<i></i>	(4)/(2)
STRAIN OR INJURY BY					
Jumping	0	0.0%	0	0.0%	
Holding or Carrying	12	3.5%	289,152	4.6%	24,096
Lifting	51	14.7%	829,834	13.3%	16,271
Pushing or Pulling	14	4.0%	310,255	5.0%	22,161
Reaching	2	0.6%	11,830	0.2%	5,915
Using Tool or Machine	3	0.9%	44,766	0.7%	14,922
Misc - Strain	42	12.1%	654,446	10.5%	15,582
SUBTOTAL - STRAIN	124	35.8%	2,140,283	34.3%	17,260
STRIKING AGAINST OR STEPPING	ON				
Moving Parts of Machine	1	0.3%	43,450	0.7%	43,450
Objects Being Lifted or Handled	0	0.0%	0	0.0%	,
Sanding, Scraping, Cleaning	0	0.0%	0	0.0%	
Stationary Object	2	0.6%	94,526	1.5%	47,263
Stepping on Sharp Object	0	0.0%	0	0.0%	,
Misc - Striking Against	3	0.9%	52,572	0.8%	17,524
SUBTOTAL - STRIKING AGAINST	6	1.7%	190,548	3.1%	31,758
STRUCK OR INJURED BY					
Falling or Flying Object	7	2.0%	137,579	2.2%	19,654
Hand Tool or Machine in Use	0	0.0%	0	0.0%	,
Motor Vehicle	3	0.9%	91,217	1.5%	30,406
Moving Parts of Machine	1	0.3%	18,701	0.3%	18,701
Objects Being Lifted or Handled	2	0.6%	35,846	0.6%	17,923
Objects Handled by Others	2	0.6%	29,401	0.5%	14,701
Misc - Struck	7	2.0%	142,188	2.3%	20,313
SUBTOTAL - STRUCK	22	6.4%	454,932	7.3%	20,679
MISCELLANEOUS CAUSES					
Contact with Electric Current	0	0.0%	0	0.0%	
Animal or Insect	1	0.3%	683	0.0%	683
Explosion or Flare Back	0	0.0%	0	0.0%	
Foreign Body in Eye	0	0.0%	0	0.0%	
Robbery or Criminal Assault	2	0.6%	34,465	0.6%	17,233
Repetitive Motion	20	5.8%	172,515	2.8%	8,626
Cumulative (NOC)	14	4.0%	201,553	3.2%	14,397
Other (NOC)	53	15.3%	834,354	13.4%	15,743
SUBTOTAL - MISCELLANEOUS	90	26.0%	1,243,570	19.9%	13,817

Totals/Average 346 6,245,025 18,049

TABLE 11, SHEET 5

DISTRIBUTION BY CAUSE OF INJURY VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
	<i>y</i>	.,	(3)/(2)
BURN OR SCALD - HEAT OR COLD EX	POSURE		
Acid Chemicals	0	0	
Contact with Hot Objects	0	0	
Temperature Extremes	0	0	
Fire or Flame	0	0	
Steam or Hot Fluids	0	0	
Dust, Fumes, Gas, or Vapors	0	0	
Welding Operations	0	0	
Radiation	0	0	
Misc - Burn	0	0	
SUBTOTAL - BURN	0	0	
CAUGHT IN OR BETWEEN			
Machine or Machinery	0	0	
Object Handled	0	0	
Misc - Caught	0	0	
SUBTOTAL - CAUGHT	0	0	
CUT, PUNCTURE, SCRAPE INJURED BY			
Broken Glass	0	0	
Hand Tool, Utensil; Not Powered	0	0	
Powered Hand Tool	0	0	
Misc - Cut	0	0	
SUBTOTAL - CUT	0	0	
FALL OR SLIP INJURY			
From a Different Level	1	4,883	4,883
From a Ladder or Scaffolding	0	0	1,000
From Liquid or Grease Spills	1	1,353	1,353
On Same Level	0	0	.,000
Slipped, Did Not Fall	0	Õ	
Misc - Fall/Slip	Ő	Õ	
SUBTOTAL - FALL/SLIP	2	6,236	3,118
MOTOR VEHICLE			
Collision with Another Vehicle	0	0	
Collision with a Fixed Object	0	0	
Crash of Airplane	0	0	
Vehicle Upset	0	0	
Misc - Vehicle	0	0	
SUBTOTAL - VEHICLE	0	0	

TABLE 11, SHEET 5 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
	oj Ciainis	oj etams	(3)/(2)
STRAIN OR INJURY BY			(2), (2)
Jumping	0	0	
Holding or Carrying	1	489	489
Lifting	1	221	221
Pushing or Pulling	0	0	221
Reaching	0	0	
Using Tool or Machine	Õ	0	
Misc - Strain	0	0	
SUBTOTAL - STRAIN	2	710	355
DCD 10 1111	_		
STRIKING AGAINST OR STEPPING ON			
Moving Parts of Machine	0	0	
Objects Being Lifted or Handled	0	0	
Sanding, Scraping, Cleaning	0	0	
Stationary Object	0	0	
Stepping on Sharp Object	0	0	
Misc - Striking Against	0	0	
SUBTOTAL - STRIKING AGAINST	0	0	
STRUCK OR INJURED BY			
Falling or Flying Object	0	0	
Hand Tool or Machine in Use	Ő	0	
Motor Vehicle	Ő	0	
Moving Parts of Machine	0	0	
Objects Being Lifted or Handled	0	0	
Objects Handled by Others	0	0	
Misc - Struck	0	0	
SUBTOTAL - STRUCK	0	0	
MIGGELL ANDONIG GANGEG			
MISCELLANEOUS CAUSES	0	0	
Contact with Electric Current	0	0	
Animal or Insect	0	0	
Explosion or Flare Back	0	0	
Foreign Body in Eye	0	0	
Robbery or Criminal Assault	0	0	
Repetitive Motion	0	0	4.007
Cumulative (NOC)	1	1,387	1,387
Other (NOC)	2	5,219	2,610
SUBTOTAL - MISCELLANEOUS	3	6,606	2,202

TABLE 11, SHEET 6

DISTRIBUTION BY CAUSE OF INJURY EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
	<i>a</i>) <i>a</i>	<i>cy </i>	(3)/(2)
BURN OR SCALD - HEAT OR COLD EX	XPOSURE		
Acid Chemicals	0	0	
Contact with Hot Objects	0	0	
Temperature Extremes	0	0	
Fire or Flame	0	0	
Steam or Hot Fluids	0	0	
Dust, Fumes, Gas, or Vapors	0	0	
Welding Operations	0	0	
Radiation	0	0	
Misc - Burn	0	0	
SUBTOTAL - BURN	0	0	
CAUGHT IN OR BETWEEN			
Machine or Machinery	5	21,025	4,205
Object Handled	0	0	.,_55
Misc - Caught	4	6,790	1,698
SUBTOTAL - CAUGHT	9	27,815	3,091
CUT, PUNCTURE, SCRAPE INJURED B	V		
Broken Glass	0	0	
Hand Tool, Utensil; Not Powered	0	0	
Powered Hand Tool	0	0	
Misc - Cut	2	595	298
SUBTOTAL - CUT	2	595	298
EALL OD SLID INHIDV			
FALL OR SLIP INJURY From a Different Level	7	41,135	5,876
From a Ladder or Scaffolding	8	19,133	2,392
From Liquid or Grease Spills	4	15,485	3,871
On Same Level	6	25,111	4,185
Slipped, Did Not Fall	2	3,392	1,696
Misc - Fall/Slip	17	46,564	2,739
SUBTOTAL - FALL/SLIP	44	150,820	3,428
MOTOD VEHICLE			
MOTOR VEHICLE Collision with Another Vehicle	7	12 204	1 7/12
	0	12,204	1,743
Collision with a Fixed Object Crash of Airplane	0	0 0	
Vehicle Upset	2	4,919	2,460
Misc - Vehicle	6	20,963	2,460 3,494
SUBTOTAL - VEHICLE	1 5	20,963 38,086	2, 539

TABLE 11, SHEET 6 (CONT'D)

DISTRIBUTION BY CAUSE OF INJURY EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Cause of Injury	of Claims	of Claims	of Claims
	V	<u> </u>	(3)/(2)
STRAIN OR INJURY BY			
Jumping	0	0	
Holding or Carrying	7	30,610	4,373
Lifting	34	125,716	3,698
Pushing or Pulling	11	52,941	4,813
Reaching	0	Ô	,
Using Tool or Machine	1	530	530
Misc - Strain	26	75,513	2,904
SUBTOTAL - STRAIN	79	285,310	3,612
STRIKING AGAINST OR STEPPING ON			
Moving Parts of Machine	1	11,090	11,090
Objects Being Lifted or Handled	0	0	11,000
Sanding, Scraping, Cleaning	0	0	
Stationary Object	Ö	Õ	
Stepping on Sharp Object	Ö	0	
Misc - Striking Against	2	6,294	3,147
SUBTOTAL - STRIKING AGAINST	3	17,384	5,795
STRUCK OR INJURED BY			
Falling or Flying Object	5	5,423	1,085
Hand Tool or Machine in Use	0	0, 120	1,000
Motor Vehicle	1	5,680	5,680
Moving Parts of Machine	0	0	,
Objects Being Lifted or Handled	1	4,381	4,381
Objects Handled by Others	2	788	394
Misc - Struck	4	28,008	7,002
SUBTOTAL - STRUCK	13	44,280	3,406
MISCELLANEOUS CAUSES			
Contact with Electric Current	0	0	
Animal or Insect	0	0	
Explosion or Flare Back	0	0	
Foreign Body in Eye	0	0	
Robbery or Criminal Assault	1	289	289
Repetitive Motion	10	19,216	1,922
Cumulative (NOC)	6	26,153	4,359
Other (NOC)	24	84,953	3,540
SUBTOTAL - MISCELLANEOUS	41	130,611	3,186
Totals/Average	206	694,901	3,373
10ius/Average	200	0,77,701	3,373

TABLE 12, SHEET 1

DISTRIBUTION BY NATURE OF INJURY TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Type of Cost	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
SPECIFIC INJURY					
Amputation	3	0.9%	162,371	0.9%	54,124
Angina Pectoris	0	0.0%	0	0.0%	
Burn	0	0.0%	0	0.0%	
Concussion	4	1.2%	256,136	1.5%	64,034
Contusion	25	7.4%	1,463,540	8.3%	58,542
Crushing	4	1.2%	237,600	1.4%	59,400
Dislocation	4	1.2%	93,137	0.5%	23,284
Electric Shock	0	0.0%	0	0.0%	
Enucleation	0	0.0%	0	0.0%	
Foreign body	0	0.0%	0	0.0%	
Fracture	22	6.5%	1,178,703	6.7%	53,577
Freezing	0	0.0%	0	0.0%	
Hearing Loss	1	0.3%	15,922	0.1%	15,922
Heat Prostration	0	0.0%	0	0.0%	
Hernia	3	0.9%	338,354	1.9%	112,785
Infection	0	0.0%	0	0.0%	,
Inflammation	9	2.7%	319,939	1.8%	35,549
Laceration	9	2.7%	270,580	1.5%	30,064
Myocardial Infarction	0	0.0%	0	0.0%	,
Poisoning General	0	0.0%	0	0.0%	
Puncture	1	0.3%	13,693	0.1%	13,693
Rupture	7	2.1%	994,053	5.7%	142,008
Severance	0	0.0%	0	0.0%	,
Sprain	10	3.0%	269,880	1.5%	26,988
Strain	145	42.9%	7,666,943	43.6%	52,875
Syncope	0	0.0%	0	0.0%	0=,010
Asphyxiation	0	0.0%	0	0.0%	
Vascular Loss	2	0.6%	64,799	0.4%	32,400
Vision Loss	0	0.0%	0 1,7 00	0.0%	02, 100
All Other	71	21.0%	3,735,758	21.3%	52,616
All Other	/ 1	Z1.U70	3,133,138	21.3%	32,010

TABLE 12, SHEET 1 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Type of Cost	of Claims	of Claims	of Claims	of Dollars	of Claims
	Ť	<u> </u>	V	•	(4)/(2)
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY	Y				
Dust Disease NOC	0	0.0%	0	0.0%	
Asbestosis	0	0.0%	0	0.0%	
Black Lung	0	0.0%	0	0.0%	
Byssinosis	0	0.0%	0	0.0%	
Silicosis	0	0.0%	0	0.0%	
Respiratory Disorders	0	0.0%	0	0.0%	
Poisoning - Chemical	0	0.0%	0	0.0%	
Poisoning - Metal	0	0.0%	0	0.0%	
Dermatitis	0	0.0%	0	0.0%	
Mental Disorder	0	0.0%	0	0.0%	
Radiation	0	0.0%	0	0.0%	
All Other Occupational Disease	1	0.3%	5,016	0.0%	5,016
Loss of Hearing	2	0.6%	14,431	0.1%	7,216
Contagious Disease	0	0.0%	0	0.0%	
Cancer	0	0.0%	0	0.0%	
AIDS	0	0.0%	0	0.0%	
VDT-Related Disease	0	0.0%	0	0.0%	
Mental Stress	1	0.3%	4,446	0.0%	4,446
Carpal Tunnel Syndrome	6	1.8%	208,819	1.2%	34,803
All Other Cumulative Injuries	8	2.4%	253,580	1.4%	31,698
Totals/Average	338		17,567,700		51,975

TABLE 12, SHEET 2

DISTRIBUTION BY NATURE OF INJURY INDEMNITY DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	v	·	(3)/(2)
SPECIFIC INJURY			
Amputation	3	86,429	28,810
Angina Pectoris	0	0	
Burn	0	0	
Concussion	4	150,730	37,683
Contusion	25	773,733	30,949
Crushing	4	142,706	35,677
Dislocation	4	24,907	6,227
Electric Shock	0	0	•
Enucleation	0	0	
Foreign body	0	0	
Fracture	22	564,397	25,654
Freezing	0	0	-,
Hearing Loss	1	10,640	10,640
Heat Prostration	0	0	-,-
Hernia	3	255,128	85,043
Infection	0	0	00,010
Inflammation	9	175,382	19,487
Laceration	9	93,409	10,379
Myocardial Infarction	0	0	
Poisoning General	0	0	
Puncture	1	2,736	2,736
Rupture	7	684,356	97,765
Severance	0	0	0.,.00
Sprain	10	99,471	9,947
Strain	145	4,912,541	33,880
Syncope	0	0	00,000
Asphyxiation	Ő	Ő	
Vascular Loss	2	10,501	5,251
Vision Loss	0	0,301	0,201
		•	25 640
All Other	71	2,528,904	35,618

TABLE 12, SHEET 2 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY INDEMNITY DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	V	v	(3)/(2)
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY	Y		
Dust Disease NOC	0	0	
Asbestosis	0	0	
Black Lung	0	0	
Byssinosis	0	0	
Silicosis	0	0	
Respiratory Disorders	0	0	
Poisoning - Chemical	0	0	
Poisoning - Metal	0	0	
Dermatitis	0	0	
Mental Disorder	0	0	
Radiation	0	0	
All Other Occupational Disease	1	5,000	5,000
Loss of Hearing	2	7,770	3,885
Contagious Disease	0	0	
Cancer	0	0	
AIDS	0	0	
VDT-Related Disease	0	0	
Mental Stress	1	4,000	4,000
Carpal Tunnel Syndrome	6	119,017	19,836
All Other Cumulative Injuries	8	149,583	18,698
Totals/Average	338	10,801,340	31,957

TABLE 12, SHEET 3

DISTRIBUTION BY NATURE OF INJURY LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	J	J	(3)/(2)
SPECIFIC INJURY			
Amputation	1	8,754	8,754
Angina Pectoris	0	0	
Burn	0	0	
Concussion	2	35,969	17,985
Contusion	13	232,870	17,913
Crushing	1	11,482	11,482
Dislocation	1	800	800
Electric Shock	0	0	
Enucleation	0	0	
Foreign body	0	0	
Fracture	9	46,816	5,202
Freezing	0	0	
Hearing Loss	0	0	
Heat Prostration	0	0	
Hernia	0	0	
Infection	0	0	
Inflammation	2	39,075	19,538
Laceration	0	O	,
Myocardial Infarction	0	0	
Poisoning General			
Puncture	0	0	
Rupture	7	139,840	19,977
Severance	0	0	,
Sprain	3	15,888	5,296
Strain	63	1,106,262	17,560
Syncope	0	0	·
Asphyxiation	0	0	
Vascular Loss	0	0	
Vision Loss	0	0	
All Other	27	731,732	27,101

TABLE 12, SHEET 3 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
V V		·	(3)/(2)
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY	Y		
Dust Disease NOC	0	0	
Asbestosis	0	0	
Black Lung	0	0	
Byssinosis	0	0	
Silicosis	0	0	
Respiratory Disorders	0	0	
Poisoning - Chemical	0	0	
Poisoning - Metal	0	0	
Dermatitis	0	0	
Mental Disorder	0	0	
Radiation	0	0	
All Other Occupational Disease	1	5,000	5,000
Loss of Hearing	0	0	
Contagious Disease	0	0	
Cancer	0	0	
AIDS	0	0	
VDT-Related Disease	0	0	
Mental Stress	1	4,000	4,000
Carpal Tunnel Syndrome	1	2,900	2,900
All Other Cumulative Injuries	2	69,000	34,500
Totals/Average	134	2,450,388	18,286

TABLE 12, SHEET 4

DISTRIBUTION BY NATURE OF INJURY MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	*		(3)/(2)
SPECIFIC INJURY			
Amputation	3	72,902	24,301
Angina Pectoris	0	0	
Burn	0	0	
Concussion	4	95,634	23,909
Contusion	25	628,188	25,128
Crushing	4	90,838	22,710
Dislocation	4	57,953	14,488
Electric Shock	0	0	
Enucleation	0	0	
Foreign body	0	0	
Fracture	22	565,995	25,727
Freezing	0	0	
Hearing Loss	1	5,282	5,282
Heat Prostration	0	0	
Hernia	3	73,210	24,403
Infection	0	0	•
Inflammation	9	120,785	13,421
Laceration	9	165,069	18,341
Myocardial Infarction	0	0	•
Poisoning General	0	0	
Puncture	1	10,957	10,957
Rupture	7	265,049	37,864
Severance	0	0	•
Sprain	9	161,213	17,913
Strain	145	2,441,222	16,836
Syncope	0	0	•
Asphyxiation	0	0	
Vascular Loss	2	52,946	26,473
Vision Loss	0	0	, -
All Other	71	1,082,290	15,244

TABLE 12, SHEET 4 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY Dust Disease NOC	0	0	(3)/(2)
Asbestosis	0	0	
Black Lung	0	0	
Byssinosis	0	0	
Silicosis	0	0	
Respiratory Disorders Poisoning - Chemical	0	0	
Poisoning - Chemical Poisoning - Metal	0	0	
Dermatitis	0	0	
Mental Disorder	0	0	
Radiation	0	0	
All Other Occupational Disease	0	0	
Loss of Hearing	2	6,661	3,331
Contagious Disease	0	0	-,
Cancer	0	0	
AIDS	0	0	
VDT-Related Disease	0	0	
Mental Stress	1	446	446
Carpal Tunnel Syndrome	6	83,426	13,904
All Other Cumulative Injuries	8	77,841	9,730
Totals/Average	336	6,057,907	18,029

TABLE 12, SHEET 5

DISTRIBUTION BY NATURE OF INJURY VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
			(3)/(2)
SPECIFIC INJURY			
Amputation	0	0	
Angina Pectoris	0	0	
Burn	0	0	
Concussion	0	0	
Contusion	0	0	
Crushing	0	0	
Dislocation	0	0	
Electric Shock	0	0	
Enucleation	0	0	
Foreign body	0	0	
Fracture	0	0	
Freezing	0	0	
Hearing Loss	0	0	
Heat Prostration	0	0	
Hernia	0	0	
Infection	0	0	
Inflammation	0	0	
Laceration	0	0	
Myocardial Infarction	0	0	
Poisoning General	0	0	
Puncture	0	0	
Rupture	1	489	489
Severance	0	0	
Sprain	0	0	
Strain	3	6,457	2,152
Syncope	0	0	- ,
Asphyxiation	0	0	
Vascular Loss	Ö	Ö	
Vision Loss	0	0	
All Other	3	6,606	2,202
All Other	3	0,000	2,202

TABLE 12, SHEET 5 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY **VOCATIONAL REHAB DOLLARS**

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	_		(3)/(2)
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY			
Dust Disease NOC	0	0	
Asbestosis	0	0	
Black Lung	0	0	
Byssinosis	0	0	
Silicosis	0	0	
Respiratory Disorders	0	0	
Poisoning - Chemical	0	0	
Poisoning - Metal	0	0	
Dermatitis	0	0	
Mental Disorder	0	0	
Radiation	0	0	
All Other Occupational Disease	0	0	
Loss of Hearing	0	0	
Contagious Disease	0	0	
Cancer	0	0	
AIDS	0	0	
VDT-Related Disease	0	0	
Mental Stress	0	0	
Carpal Tunnel Syndrome	0	0	
All Other Cumulative Injuries	0	0	
Totals/Average	7	13,552	1,936

TABLE 12, SHEET 6

DISTRIBUTION BY NATURE OF INJURY EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
	v	V	(3)/(2)
SPECIFIC INJURY			
Amputation	3	3,040	1,013
Angina Pectoris	0	0	
Burn	0	0	
Concussion	3	9,772	3,257
Contusion	18	61,619	3,423
Crushing	4	4,056	1,014
Dislocation	3	10,277	3,426
Electric Shock	0	0	
Enucleation	0	0	
Foreign body	0	0	
Fracture	18	48,311	2,684
Freezing	0	0	•
Hearing Loss	0	0	
Heat Prostration	0	0	
Hernia	3	10,016	3,339
Infection	0	0	,
Inflammation	7	23,772	3,396
Laceration	4	12,102	3,026
Myocardial Infarction	0	0	-,
Poisoning General	0	0	
Puncture	0	0	
Rupture	7	44,159	6,308
Severance	0	0	7,
Sprain	6	9,196	1,533
Strain	98	306,723	3,130
Syncope	0	0	,
Asphyxiation	0	0	
Vascular Loss	1	1,352	1,352
Vision Loss	0	0	,
All Other	25	117,958	4,718
All Other	20	111,900	4,710

TABLE 12, SHEET 6 (CONT'D)

DISTRIBUTION BY NATURE OF INJURY EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Cost	of Claims	of Claims	of Claims
<i>y</i>		J	(3)/(2)
OCCUPATIONAL DISEASE OR CUMULATIVE INJURY	Y		
Dust Disease NOC	0	0	
Asbestosis	0	0	
Black Lung	0	0	
Byssinosis	0	0	
Silicosis	0	0	
Respiratory Disorders	0	0	
Poisoning - Chemical	0	0	
Poisoning - Metal	0	0	
Dermatitis	0	0	
Mental Disorder	0	0	
Radiation	0	0	
All Other Occupational Disease	1	16	16
Loss of Hearing	0	0	
Contagious Disease	0	0	
Cancer	0	0	
AIDS	0	0	
VDT-Related Disease	0	0	
Mental Stress	0	0	
Carpal Tunnel Syndrome	1	6,376	6,376
All Other Cumulative Injuries	4	26,156	6,539
Totals/Average	206	694,901	3,373

TABLE 13, SHEET 1

DISTRIBUTION BY PART OF BODY TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Part of Body	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Head	12	3.5%	399,602	2.3%	33,300
Neck	12	3.5%	833,227	4.7%	69,436
Upper Extremities	118	34.7%	4,262,004	24.1%	36,119
Trunk (Excluding Back)	7	2.1%	288,167	1.6%	41,167
Back	77	22.6%	6,151,951	34.8%	79,895
Lower Extremities	68	20.0%	2,694,553	15.3%	39,626
Multiple Body Parts	46	13.5%	3,034,991	17.2%	65,978
Totals/Average	340		17,664,495		51,954

TABLE 13, SHEET 2

DISTRIBUTION BY PART OF BODY INDEMNITY DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Part of Body	of Claims	of Claims	of Claims
		•	(3)/(2)
Head	12	211,618	17,635
Neck	12	564,710	47,059
Upper Extremities	118	2,193,054	18,585
Trunk (Excluding Back)	7	210,921	30,132
Back	77	4,345,453	56,434
Lower Extremities	68	1,362,536	20,037
Multiple Body Parts	46	1,908,561	41,490
Totals/Average	340	10,796,853	31,755

TABLE 13, SHEET 3

DISTRIBUTION BY PART OF BODY LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Part of Body	of Claims	of Claims	of Claims
		•	(3)/(2)
Head	3	46,469	15,490
Neck	5	75,983	15,197
Upper Extremities	37	466,278	12,602
Trunk (Excluding Back)	3	27,900	9,300
Back	50	1,199,314	23,986
Lower Extremities	16	265,759	16,610
Multiple Body Parts	18	483,685	26,871
Totals/Average	132	2,565,388	19,435

TABLE 13, SHEET 4

DISTRIBUTION BY PART OF BODY MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Part of Body	of Claims	of Claims	of Claims
		•	(3)/(2)
Head	12	167,747	13,979
Neck	12	233,136	19,428
Upper Extremities	116	1,884,917	16,249
Trunk (Excluding Back)	7	60,787	8,684
Back	77	1,562,103	20,287
Lower Extremities	68	1,267,399	18,638
Multiple Body Parts	46	998,131	21,699
Totals/Average	338	6,174,220	18,267

TABLE 13, SHEET 5

DISTRIBUTION BY PART OF BODY VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Part of Body	of Claims	of Claims	of Claims
		•	(3)/(2)
Head	0	0	
Neck	0	0	
Upper Extremities	3	6,491	2,164
Trunk (Excluding Back)	0	0	
Back	1	489	489
Lower Extremities	1	1,353	1,353
Multiple Body Parts	1	259	259
Totals/Average	6	8,592	1,432

TABLE 13, SHEET 6

DISTRIBUTION BY PART OF BODY EXPENSE DOLLARS

(1)	(2)	(3)	(4)	
	Number	Dollar Cost	Average Cost	
Part of Body	of Claims	of Claims	of Claims	
			(3)/(2)	
Head	4	20,237	5,059	
Neck	10	35,381	3,538	
Upper Extremities	64	177,542	2,774	
Trunk (Excluding Back)	4	16,459	4,115	
Back	60	243,906	4,065	
Lower Extremities	32	63,265	1,977	
Multiple Body Parts	28	128,040	4,573	
Totals/Average	202	684,830	3,390	

TABLE 14

DISTRIBUTION OF INDEMNITY BY INJURY TYPE

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Indemnity Injury Type	of Claims	of Claims	of Claims	of Dollars	of Claims
					(5)/(2)
Fatal	1	0%	101,855	1%	101,855
PTD	2	1%	343,701	3%	171,851
PPD/Scheduled	187	54%	3,471,164	31%	18,562
PPD/Unscheduled	120	34%	6,336,138	57%	52,801
TTD	0	0%	0	0%	
TPD	0	0%	0	0%	
PPD/Disfigured	0	0%	0	0%	
Lump	32	9%	767,717	7%	23,991
Other Indemnity	6	2%	51,120	0%	8,520
Total / Average	348	100%	11,071,695	100%	31,815

TABLE 15

DISTRIBUTION BY IMPAIRMENT RATING

(1)	(2)	(3)	(4)	(5)	(6)
Impairment					
Rating	Total	% of	% ex	Total	Avg. Cost
Range	Claims	Total	Unknown	Cost	per Claim
					(5)/(2)
1 - 5	46	13.2%	18.0%	422,517	9,185
6 - 10	69	19.8%	27.1%	1,063,516	15,413
11 - 20	91	26.1%	35.7%	3,118,952	34,274
21 - 30	33	9.5%	12.9%	1,351,446	40,953
31 - 50	15	4.3%	5.9%	774,517	51,634
51 - 100	1	0.3%	0.4%	198,274	198,274
Unknown	93	26.7%		4,142,473	44,543
Totals / Averages	348	100.0%	100.0%	11,071,695	31,815

DISTRIBUTION BY TYPE OF CARRIER INDEMNITY DOLLARS

TABLE 16

(1)	(2)	(3)	(4)
Type of Carrier	Number of Claims	Dollar Cost of Claims	Average Cost of Claims
туре ој Саттег	oj Ciaims	oj Ciaims	$\frac{\text{of claims}}{(3)/(2)}$
Pinnacol Assurance	70	3,829,155	54,702
Commercial Insurers	64	2,519,622	39,369
Self Insurers	214	4,722,918	22,070
Totals/Average	348	11,071,695	31,815

TABLE 17

MEDICAL COSTS BY PROVIDER

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Type of Provider	of Claims	of Total Claims	of Claims	of Dollars	of Claims
					(3)/(2)
Non-Surgical MD	334	99.7%	1,081,783	17.3%	3,239
Surgical MD	174	51.9%	465,631	7.5%	2,676
Orthopedist	149	44.5%	168,691	2.7%	1,132
Osteopath	24	7.2%	31,322	0.5%	1,305
Mental Health Practitioner	42	12.5%	62,753	1.0%	1,494
Chiropractor	71	21.2%	74,662	1.2%	1,052
Hospital	269	80.3%	2,100,631	33.6%	7,809
Housekeeping	6	1.8%	511	0.0%	85
Home Modification Equipment	26	7.8%	30,461	0.5%	1,172
Prosthetics	22	6.6%	17,189	0.3%	781
Prescriptions	271	80.9%	420,321	6.7%	1,551
Pain Rehab/Work Hardening	35	10.4%	106,380	1.7%	3,039
Independent Medical Examiner	42	12.5%	54,457	0.9%	1,297
Funeral Expenses	3	0.9%	7,239	0.1%	2,413
Physical Therapy	291	86.9%	691,285	11.1%	2,376
Other Medical	288	86.0%	936,177	15.0%	3,251
Total / Average	335		6,249,493		18,655

NOTES:

Providers shown in BOLD are used in Chart 17b - Distribution of Charges by Type of Doctor.

TABLE 18 A, SHEET 1

DESIGNATOR OF PROVIDER TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
Designator	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
					(4)/(2)
Employer	321	92%	16,347,379	91%	50,926
Employee / Not Reported	27	8%	1,677,794	9%	62,141
Totals/Average	348		18,025,173		51,796

TABLE 18 A, SHEET 2

DESIGNATOR OF PROVIDER INDEMNITY DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	321	92%	9,981,313	90%	31,094
Employee / Not Reported	27	8%	1,090,382	10%	40,385
Totals/Average	348		11,071,695		31,815

TABLE 18 A, SHEET 3

DESIGNATOR OF PROVIDER LUMP SUM DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	122	90%	2,295,350	89%	18,814
Employee / Not Reported	13	10%	280,038	11%	21,541
Totals/Average	135		2,575,388		19,077

TABLE 18 A, SHEET 4

DESIGNATOR OF PROVIDER MEDICAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	319	92%	5,749,822	92%	18,025
Employee / Not Reported	27	8%	495,203	8%	18,341
Totals/Average	346		6,245,025		18,049

TABLE 18 A, SHEET 5

DESIGNATOR OF PROVIDER VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	7	100%	13,552	100%	1,936
Employee / Not Reported	0	0%	0	0%	
Totals/Average	7		13,552		1,936

TABLE 18 A, SHEET 6

DESIGNATOR OF PROVIDER EXPENSE DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	179	87%	602,692	87%	3,367
Employee / Not Reported	27	13%	92,209	13%	3,415
Totals/Average	206		694,901		3,373

TABLE 18 B, SHEET 1

DESIGNATOR OF PROVIDER BY CARRIER MEDICAL DOLLARS - PINNACOL ASSURANCE

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	70	100.0%	1,604,449	100.0%	22,921
Employee / Not Reported	0	0.0%	0	0.0%	
Totals/Average	70		1,604,449		22,921

TABLE 18 B, SHEET 2

DESIGNATOR OF PROVIDER BY CARRIER MEDICAL DOLLARS - COMMERCIAL INSURERS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	38	59.4%	1,014,868	68.9%	26,707
Employee / Not Reported	26	40.6%	457,927	31.1%	17,613
Totals/Average	64		1,472,795		23,012

TABLE 18 B, SHEET 3

DESIGNATOR OF PROVIDER BY CARRIER MEDICAL DOLLARS - SELF INSURERS

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
Designator	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Employer	211	99.5%	3,130,505	98.8%	14,837
Employee / Not Reported	1	0.5%	37,276	1.2%	37,276
Totals/Average	212		3,167,781		14,942

TABLE 19, SHEET 1

MANAGED CARE MEDICAL COSTS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
					Average	Average
	Claim Count	Claim Count	Medical Cost	Medical Cost	Medical Cost per	Medical Cost per
	With	Without	With	Without	Claim With	Claim Without
Carrier	Managed Care	Managed Care				
					(4)/(2)	(5)/(3)
Pinnacol Assurance	70	0	1,604,449	0	22,921	N/A
Commercial Insurer	63	1	1,461,251	11,544	23,194	11,544
Self Insurer	183	29	2,767,330	400,451	15,122	13,809
Totals/Average	316	30	5,833,030	411,995	18,459	13,733

TABLE 19, SHEET 2

MANAGED CARE MEDICAL COSTS

	(1)	(2)	(3)	(4)	(5)
	Early	Case		Utilization	
Carrier	Report	Manager	Network	Review	Other
	Nun	ther of Claims w	ith Given Indicat	tor of Managed (⁷ are
_	T\uII	ibei of Claims w	ith Given mulcat	or or wanaged v	Jaic
Pinnacol Assurance	52	15	68	0	0
Commercial Insurer	53	36	52	7	0
Self Insurer	92	59	157	8	17
Total	197	110	277	15	17
	(6)	(7)	(8)	(9)	(10)
_	Amou	ınt of Medical Co	ost for the Claims	s with Given Ind	icator
Pinnacol Assurance	1,065,628	572,244	1,575,583	0	0
Commercial Insurer	1,157,413	833,013	1,053,888	191,377	0
Self Insurer	1,537,129	1,162,689	2,352,354	251,169	172,665
Total	3,760,170	2,567,946	4,981,825	442,546	172,665
	(11)	(12)	(13)	(14)	(15)
_		Average	Medical Cost Pe	r Claim	
	(6)/(1)	(7)/(2)	(8)/(3)	(9)/(4)	(10)/(5)
Pinnacol Assurance	20,493	38,150	23,170		
Commercial Insurer Self Insurer	21,838 16,708	23,139 19,707	20,267 14,983	27,340 31,396	10,157
_	19,087	23,345	17,985	29,503	10,157

TABLE 20

DISTRIBUTION BY TYPE OF CARRIER MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Type of Carrier	of Claims	of Claims	of Claims
			(3)/(2)
Pinnacol Assurance	70	1,604,449	22,921
Commercial Insurers	64	1,472,795	23,012
Self Insurers	212	3,167,781	14,942
Totals/Average	346	6,245,025	18,049

TABLE 21

SUMMARY OF VOCATIONAL REHAB COSTS BY TYPE OF CARRIER

(1)	(2)	(3)	(4)
Vocational	Number	Dollar Cost	Average Cost
Rehabilitation	of Claims	of Claims	of Claims
Dinneral Assurance			(3)/(2)
Pinnacol Assurance	4	440,000	440,000
Total Indemnity	1	116,220	116,220
Total Medical	1	109,750	109,750
Total Vocational Rehab	1	489	489
Total Lump Sum Payments	1	1,219	1,219
Total Expenses	1	20,560	20,560
Commercial			
Total Indemnity	2	106,910	53,455
Total Medical	2	125,171	62,586
Total Vocational Rehab	2	6,236	3,118
Total Lump Sum Payments	0	0	,
Total Expenses	1	2,860	2,860
Self Insurers			
Total Indemnity	4	163,741	40,935
Total Medical	4	67,697	16,924
Total Vocational Rehab	4	6,827	1,707
Total Lump Sum Payments	1	13,000	13,000
Total Expenses	0	0	. 0,000
All Carriers			
Total Indemnity	7	386,871	55,267
Total Medical	7	302,618	43,231
Total Vocational Rehab	7	13,552	1,936
Total Lump Sum Payments	2	14,219	7,110
Total Expenses	2	23,420	11,710
Total / Average		726,461	103,780

TABLE 22 A, SHEET 1

ATTORNEY INVOLVEMENT TOTAL DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	143	10,198,671	71,319
No	205	7,826,502	38,178
Unknown	0	0	
Totals/Average	348	18,025,173	51,796

TABLE 22 A, SHEET 2

ATTORNEY INVOLVEMENT INDEMNITY DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	143	6,669,179	46,638
No	205	4,402,516	21,476
Unknown	0	0	
Totals/Average	348	11,071,695	31,815

TABLE 22 A, SHEET 3

ATTORNEY INVOLVEMENT LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	91	1,907,774	20,965
No	44	667,614	15,173
Unknown	0	0	
Totals/Average	135	2,575,388	19,077

TABLE 22 A, SHEET 4

ATTORNEY INVOLVEMENT MEDICAL DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	142	3,024,699	21,301
No	204	3,220,326	15,786
Unknown	0	0	
Totals/Average	346	6,245,025	18,049

TABLE 22 A, SHEET 5

ATTORNEY INVOLVEMENT VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	3	5,708	1,903
No	4	7,844	1,961
Unknown	0	0	
Totals/Average	7	13,552	1,936

TABLE 22 A, SHEET 6

ATTORNEY INVOLVEMENT EXPENSE DOLLARS

(1)	(2)	(3)	(4)
Claimant	Number	Dollar Cost	Average Cost
Attorney Involvement	of Claims	of Claims	of Claims
			(3)/(2)
Yes	108	499,085	4,621
No	98	195,816	1,998
Unknown	0	0	
Totals/Average	206	694,901	3,373

TABLE 22 B, SHEET 1

DISTRIBUTION BY ATTORNEY INVOLVEMENT

(1)	(2)	(3)	(4)	(5)	(6)
	Number	Percent	Dollar Cost	Percent	Average Cost
	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Claimant Attorney	143	41.1%	10,198,671	56.6%	71,319
No Claimant Attorney	205	58.9%	7,826,502	43.4%	38,178
Unknown	0	0.0%	0	0.0%	
Totals/Average	348		18,025,173		51,796

TABLE 22 B, SHEET 2

DISTRIBUTION BY ATTORNEY INVOLVEMENT - PINNACOL ASSURANCE

(1)	(2)	(3)	(4)	(5)	(6)
	Number of Claims	Percent	Dollar Cost of Claims	Percent	Average Cost
	oj Ciaims	of Claims	oj Ciuims	of Dollars	of Claims (4)/(2)
Claimant Attorney	50	71.4%	4,454,382	78.9%	89,088
No Claimant Attorney	20	28.6%	1,193,285	21.1%	59,664
Unknown	0	0.0%	0	0.0%	
Totals/Average	70		5.647.667		80.681

TABLE 22 B, SHEET 3

DISTRIBUTION BY ATTORNEY INVOLVEMENT - COMMERCIAL INSURER

(1)	(2)	(3)	(4)	(5)	(6)
	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
	oj Ciainis	oj Ciains	of Citims	of Donars	(4)/(2)
Claimant Attorney	21	32.8%	1,436,483	34.0%	68,404
No Claimant Attorney	43	67.2%	2,793,988	66.0%	64,976
Unknown	0	0.0%	0	0.0%	
Totals/Average	64		4,230,471		66,101

TABLE 22 B, SHEET 4

DISTRIBUTION BY ATTORNEY INVOLVEMENT - SELF INSURER

(1)	(2)	(3)	(4)	(5)	(6)
	Number of Claims	Percent of Claims	Dollar Cost of Claims	Percent of Dollars	Average Cost of Claims
	oj Ciums	oj Cidinis	oj ciums	oj Donars	(4)/(2)
Claimant Attorney	72	33.6%	4,307,806	52.9%	59,831
No Claimant Attorney	142	66.4%	3,839,229	47.1%	27,037
Unknown	0	0.0%	0	0.0%	
Totals/Average	214		8,147,035		38,070

TABLE 23 A

TIME LINES REPORTED TO EMPLOYER

	(1)		(2)	(3)	(4)	(5)	(6)
Numb	er of	Days					
from Dat	te of	Injury to	Number	Percent	Dollar Cost	Percent	Average Cost
Date Repor	ted to	o Employer	of Claims	of Claims	of Claims	of Dollars	of Claims
							(4)/(2)
Up to		10	303	87%	16,106,615	89%	53,157
11	-	20	9	3%	615,105	3%	68,345
21	-	30	3	1%	136,578	1%	45,526
31	-	60	3	1%	152,334	1%	50,778
61	-	90	3	1%	58,070	0%	19,357
91	-	180	6	2%	215,565	1%	35,928
181	-	270	1	0%	30,854	0%	30,854
271	-	360	1	0%	12,155	0%	12,155
361	-	540	2	1%	31,805	0%	15,903
541	-	720	1	0%	7,056	0%	7,056
721	-	900	0	0%	0	0%	
901	-	1,260	0	0%	0	0%	
Over		1,260	0	0%	0	0%	
Unknown	ı		16	5%	659,036	4%	41,190
Totals			348		18 025 173		51 796

TABLE 23 B

TIME LINES REPORTED TO INSURER

	(1)		(2)	(3)	(4)	(5)	(6)
Numb	er of	Days					
from Dat	te of	Injury to	Number	Percent	Dollar Cost	Percent	Average Cost
Date Repo	rted	to Insurer	of Claims	of Claims	of Claims	of Dollars	of Claims
							(4)/(2)
Up to		10	263	76%	13,015,160	72%	49,487
11	-	20	26	7%	2,298,496	13%	88,404
21	-	30	9	3%	421,684	2%	46,854
31	-	60	11	3%	650,014	4%	59,092
61	-	90	5	1%	258,282	1%	51,656
91	-	180	10	3%	450,910	3%	45,091
181	-	270	2	1%	130,217	1%	65,109
271	-	360	2	1%	25,002	0%	12,501
361	-	540	3	1%	109,316	1%	36,439
541	-	720	1	0%	7,056	0%	7,056
721	-	900	0	0%	0	0%	
901	-	1,260	0	0%	0	0%	
Over		1,260	0	0%	0	0%	
Unknown			16	5%	659,036	4%	41,190
Totals			348		18,025,173		51,796

TABLE 23 C

TIME LINES FIRST INDEMNITY PAYMENT

	(1)		(2)	(3)	(4)	(5)	(6)
Numbe	er of	Days					
from Dat	e of	Injury to	Number	Percent	Dollar Cost	Percent	Average Cost
First Inder	nnity	y Payment	of Claims	of Claims	of Claims	of Dollars	of Claims
							(4)/(2)
Up to		10	21	6%	1,822,229	10%	86,773
11	-	20	38	11%	2,453,561	14%	64,567
21	-	30	19	5%	1,225,736	7%	64,512
31	-	60	37	11%	2,815,930	16%	76,106
61	-	90	21	6%	1,039,959	6%	49,522
91	-	180	30	9%	1,119,145	6%	37,305
181	-	270	20	6%	998,478	6%	49,924
271	-	360	17	5%	613,295	3%	36,076
361	-	540	23	7%	1,299,845	7%	56,515
541	-	720	15	4%	618,965	3%	41,264
721	-	900	13	4%	551,191	3%	42,399
901	-	1,260	7	2%	501,631	3%	71,662
Over		1,260	6	2%	538,973	3%	89,829
Unknown			81	23%	2,426,235	13%	29,954
Totals			348		18 025 173		51 796

TABLE 23 D

TIME LINES RETURNED TO WORK

	(1)		(2)	(3)	(4)	(5)	(6)
Numb	er of	Days					
from Dat	te of	Injury to	Number	Percent	Dollar Cost	Percent	Average Cost
Date of R	eturi	ı to Work	of Claims	of Claims	of Claims	of Dollars	of Claims
							(4)/(2)
Up to		10	85	24%	2,944,698	16%	34,644
11	-	20	10	3%	574,823	3%	57,482
21	-	30	9	3%	349,422	2%	38,825
31	-	60	13	4%	591,639	3%	45,511
61	-	90	10	3%	196,918	1%	19,692
91	-	180	31	9%	1,523,609	8%	49,149
181	-	270	14	4%	530,438	3%	37,888
271	-	360	12	3%	376,551	2%	31,379
361	-	540	14	4%	841,471	5%	60,105
541	-	720	9	3%	490,300	3%	54,478
721	-	900	3	1%	105,324	1%	35,108
901	-	1,260	2	1%	87,088	0%	43,544
Over		1,260	1	0%	149,758	1%	149,758
Unknown			135	39%	9,263,134	51%	68,616
Totals			3/8		18 025 173		51 706

TABLE 23 E

TIME LINES MAX MEDICAL IMPROVEMENT

	(1)		(2)	(3)	(4)	(5)	(6)
Numb	er of l	Days					
from Dat	te of In	njury to	Number	Percent	Dollar Cost	Percent	Average Cost
Лах Medic	al Imp	provement	of Claims	of Claims	of Claims	of Dollars	of Claims
							(4)/(2)
Up to		10	2	1%	127,784	1%	63,892
11	-	20	1	0%	13,338	0%	13,338
21	-	30	1	0%	23,470	0%	23,470
31	-	60	5	1%	41,359	0%	8,272
61	-	90	7	2%	70,772	0%	10,110
91	-	180	45	13%	826,461	5%	18,366
181	-	270	42	12%	1,200,602	7%	28,586
271	-	360	42	12%	2,106,405	12%	50,153
361	-	540	48	14%	2,310,484	13%	48,135
541	-	720	39	11%	2,572,545	14%	65,963
721	-	900	19	5%	1,265,714	7%	66,617
901	-	1,260	21	6%	1,674,080	9%	79,718
Over		1,260	13	4%	1,513,756	8%	116,443
Unknov	vn or l	N/A	63	18%	4,278,403	24%	67,911

TABLE 24, SHEET 1

DURATION OF BENEFITS

(1)	(2)	(3)	(4)	(5)	(6)
Number of Years					
from Date of Injury to	Number	Percent	Dollar Cost	Percent	Average Cost of Claims
Date Claim Closed	of Claims	of Claims	of Claims	of Dollars	
					(4)/(2)
Up to 0.25	6	2%	53,990	0%	8,998
0.26 - 0.50	23	7%	242,663	1%	10,551
0.51 - 0.75	35	10%	645,619	4%	18,446
0.76 - 1.00	30	9%	838,350	5%	27,945
1.01 - 1.50	42	12%	1,825,552	10%	43,466
1.51 - 2.00	35	10%	1,582,092	9%	45,203
2.01 - 2.50	63	18%	3,363,050	19%	53,382
2.51 - 3.00	28	8%	1,850,527	10%	66,090
3.01 - 3.50	26	7%	2,103,818	12%	80,916
3.51 - 4.00	11	3%	627,348	3%	57,032
4.01 - 4.50	16	5%	1,400,101	8%	87,506
4.51 - 5.00	8	2%	644,915	4%	80,614
Over 5.00	25	7%	2,847,148	16%	113,886
Totals/Average	348		18 025 173		51 796

Totals/Average 348 18,025,173 51,796

TABLE 24, SHEET 2 **DURATION OF BENEFITS - PINNACOL ASSURANCE**

(1)	(2)	(3)	(4)	(5)	(6)
Number of Years					
from Date of Injury to	Number	Percent	Dollar Cost	Percent	Average Cost
Date Claim Closed	of Claims	of Claims	of Claims	of Dollars	of Claims
					(4)/(2)
Up to 0.25	0	0%	0	0%	
0.26 - 0.50	0	0%	0	0%	
0.51 - 0.75	0	0%	0	0%	
0.76 - 1.00	0	0%	0	0%	
1.01 - 1.50	0	0%	0	0%	
1.51 - 2.00	8	11%	479,451	8%	59,931
2.01 - 2.50	21	30%	1,331,091	24%	63,385
2.51 - 3.00	5	7%	544,194	10%	108,839
3.01 - 3.50	11	16%	848,096	15%	77,100
3.51 - 4.00	3	4%	128,359	2%	42,786
4.01 - 4.50	10	14%	826,843	15%	82,684
4.51 - 5.00	4	6%	370,643	7%	92,661
Over 5.00	8	11%	1,118,990	20%	139,874
Cotala/Avenage	70		5 617 667		90.691

Totals/Average 70 5,647,667 80,681

TABLE 24, SHEET 3 **DURATION OF BENEFITS - COMMERCIAL INSURERS**

(1)		(2)	(3)	(4)	(5)	(6)
Number of Ye	ears					
from Date of In	from Date of Injury to		Percent	Dollar Cost	Percent	Average Cost
Date Claim Cl	losed	of Claims	of Claims	of Claims	of Dollars	of Claims
						(4)/(2)
Up to	0.25	0	0%	0	0%	
0.26 -	0.50	0	0%	0	0%	
0.51 -	0.75	0	0%	0	0%	
0.76 -	1.00	0	0%	0	0%	
1.01 -	1.50	0	0%	0	0%	
1.51 -	2.00	5	8%	265,182	6%	53,036
2.01 -	2.50	22	34%	953,872	23%	43,358
2.51 -	3.00	7	11%	383,521	9%	54,789
3.01 -	3.50	10	16%	969,184	23%	96,918
3.51 -	4.00	4	6%	251,378	6%	62,845
4.01 -	4.50	2	3%	86,104	2%	43,052
4.51 -	5.00	2	3%	179,297	4%	89,649
Over	5.00	12	19%	1,141,933	27%	95,161
tala/Anomana		61		4 220 471		66 101

Totals/Average 64 4,230,471 66,101

TABLE 24, SHEET 4 **DURATION OF BENEFITS - SELF INSURERS**

(1)	(2)	(3)	(4)	(5)	(6)
Number of Years					
from Date of Injury to	Number	Percent	Dollar Cost	Percent	Average Cost of Claims
Date Claim Closed	of Claims	of Claims	of Claims	of Dollars	
					(4)/(2)
Up to 0.25	6	3%	53,990	1%	8,998
0.26 - 0.50	23	11%	242,663	3%	10,551
0.51 - 0.75	35	16%	645,619	8%	18,446
0.76 - 1.00	30	14%	838,350	10%	27,945
1.01 - 1.50	42	20%	1,825,552	22%	43,466
1.51 - 2.00	22	10%	837,459	10%	38,066
2.01 - 2.50	20	9%	1,078,087	13%	53,904
2.51 - 3.00	16	7%	922,812	11%	57,676
3.01 - 3.50	5	2%	286,538	4%	57,308
3.51 - 4.00	4	2%	247,611	3%	61,903
4.01 - 4.50	4	2%	487,154	6%	121,789
4.51 - 5.00	2	1%	94,975	1%	47,488
Over 5.00	5	2%	586,225	7%	117,245
otals/Average	214		8 147 035		38 070

Totals/Average 214 8,147,035 38,070

TABLE 25, SHEET 1

DISTRIBUTION BY CLAIMANT AGE TOTAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Average	Number	Percent	Dollar Cost	Percent	Average Cost
Claimant Age	Age	of Claims	of Claims	of Claims	of Dollars	of Claims
						(5)/(3)
Up to 19	18.93	4	1%	131,639	1%	32,910
20 to 29	26.58	37	11%	1,894,234	11%	51,196
30 to 39	35.42	109	31%	6,279,012	35%	57,606
40 to 49	44.91	101	29%	5,136,389	28%	50,855
50 to 59	54.09	76	22%	3,669,754	20%	48,286
60 to 69	62.23	17	5%	740,846	4%	43,579
70 to 79	72.71	3	1%	167,626	1%	55,875
80 and Over		0	0%	0	0%	•
Unknown		1	0%	5,673	0%	5,673

Totals/Average 348 18,025,173 51,796

TABLE 25, SHEET 2

DISTRIBUTION BY CLAIMANT AGE INDEMNITY DOLLARS

(2)	(3)	(4)	(5)	(6)	(7)
Average	Number	Percent	Dollar Cost	Percent	Average Cost
Age	of Claims	of Claims	of Claims	of Dollars	of Claims
					(5)/(3)
18.93	4	1%	74,580	1%	18,645
26.58	37	11%	1,133,391	10%	30,632
35.42	109	31%	3,627,069	33%	33,276
44.91	101	29%	3,228,887	29%	31,969
54.09	76	22%	2,368,385	21%	31,163
62.23	17	5%	482,121	4%	28,360
72.71	3	1%	153,762	1%	51,254
	0	0%	0	0%	•
	1	0%	3,500	0%	3,500
	Average Age 18.93 26.58 35.42 44.91 54.09 62.23 72.71	Average Number Age of Claims 18.93 4 26.58 37 35.42 109 44.91 101 54.09 76 62.23 17 72.71 3 . 0	Average Number of Claims Percent of Claims 18.93 4 1% 26.58 37 11% 35.42 109 31% 44.91 101 29% 54.09 76 22% 62.23 17 5% 72.71 3 1% . 0 0%	Average Number Percent Dollar Cost Age of Claims of Claims of Claims 18.93 4 1% 74,580 26.58 37 11% 1,133,391 35.42 109 31% 3,627,069 44.91 101 29% 3,228,887 54.09 76 22% 2,368,385 62.23 17 5% 482,121 72.71 3 1% 153,762 . 0 0% 0	Average Number Percent Dollar Cost Percent Age of Claims of Claims of Claims of Dollars 18.93 4 1% 74,580 1% 26.58 37 11% 1,133,391 10% 35.42 109 31% 3,627,069 33% 44.91 101 29% 3,228,887 29% 54.09 76 22% 2,368,385 21% 62.23 17 5% 482,121 4% 72.71 3 1% 153,762 1% . 0 0% 0 0%

Totals/Average 348 11,071,695 31,815

TABLE 25, SHEET 3

DISTRIBUTION BY CLAIMANT AGE LUMP SUM DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Average	Number	Percent	Dollar Cost	Percent	Average Cost
Claimant Age	Age	of Claims	of Claims	of Claims	of Dollars	of Claims
				•		(5)/(3)
Up to 19	18.93	0	0%	0	0%	
20 to 29	26.58	22	16%	363,483	14%	16,522
30 to 39	35.42	41	30%	722,716	28%	17,627
40 to 49	44.91	35	26%	631,641	25%	18,047
50 to 59	54.09	30	22%	729,706	28%	24,324
60 to 69	62.23	6	4%	124,342	5%	20,724
70 to 79	72.71	0	0%	0	0%	
80 and Over		0	0%	0	0%	
Unknown		1	1%	3,500	0%	3,500
Totals/Average		135		2,575,388		19,077

TABLE 25, SHEET 4

DISTRIBUTION BY CLAIMANT AGE MEDICAL DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Average	Number	Percent	Dollar Cost	Percent	Average Cost
Claimant Age	Age	of Claims	of Claims	of Claims	of Dollars	of Claims
						(5)/(3)
Up to 19	18.93	4	1%	55,399	1%	13,850
20 to 29	26.58	37	11%	673,960	11%	18,215
30 to 39	35.42	109	32%	2,368,959	38%	21,734
40 to 49	44.91	100	29%	1,738,115	28%	17,381
50 to 59	54.09	75	22%	1,175,386	19%	15,672
60 to 69	62.23	17	5%	218,442	3%	12,850
70 to 79	72.71	3	1%	12,591	0%	4,197
80 and Over		0	0%	0	0%	
Unknown		1	0%	2,173	0%	2,173
Totals/Average		346		6,245,025		18,049

TABLE 25, SHEET 5

DISTRIBUTION BY CLAIMANT AGE VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Average	Number	Percent	Dollar Cost	Percent	Average Cost
Claimant Age	Age	of Claims	of Claims	of Claims	of Dollars	of Claims
						(5)/(3)
Up to 19	18.93	0	0%	0	0%	
20 to 29	26.58	0	0%	0	0%	
30 to 39	35.42	2	29%	748	6%	374
40 to 49	44.91	2	29%	5,104	38%	2,552
50 to 59	54.09	3	43%	7,700	57%	2,567
60 to 69	62.23	0	0%	0	0%	•
70 to 79	72.71	0	0%	0	0%	
80 and Over		0	0%	0	0%	
Unknown		0	0%	0	0%	

Totals/Average 7 13,552 1,936

TABLE 25, SHEET 6

DISTRIBUTION BY CLAIMANT AGE EXPENSE DOLLARS

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Average	Number	Percent	Dollar Cost	Percent	Average Cost
Claimant Age	Age	of Claims	of Claims	of Claims	of Dollars	of Claims
						(5)/(3)
Up to 19	18.93	2	1%	1,660	0%	830
20 to 29	26.58	28	14%	86,883	13%	3,103
30 to 39	35.42	67	33%	282,236	41%	4,212
40 to 49	44.91	63	31%	164,283	24%	2,608
50 to 59	54.09	33	16%	118,283	17%	3,584
60 to 69	62.23	11	5%	40,283	6%	3,662
70 to 79	72.71	2	1%	1,273	0%	637
80 and Over		0	0%	0	0%	
Unknown		0	0%	0	0%	
Totals/Average		206		694,901		3,373

TABLE 26, SHEET 1

DISTRIBUTION BY CLAIMANT GENDER TOTAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Claimant Gender	of Claims	of Claims	of Claims
			(3)/(2)
Male	221	12,061,795	54,578
Female	127	5,963,378	46,956
Not Reported	0	0	
Totals/Average	348	18,025,173	51,796

TABLE 26, SHEET 2

DISTRIBUTION BY CLAIMANT GENDER INDEMNITY DOLLARS

(1)	(2)	(3)	(4)	
	Number	Dollar Cost	Average Cost	
Claimant Gender	of Claims	of Claims	of Claims	
			(3)/(2)	
Male	221	7,555,368	34,187	
Female	127	3,516,327	27,688	
Not Reported	0	0		
Totals/Average	348	11,071,695	31,815	

TABLE 26, SHEET 3

DISTRIBUTION BY CLAIMANT GENDER LUMP SUM DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Claimant Gender	of Claims	of Claims	of Claims
			(3)/(2)
Male	83	1,675,627	20,188
Female	52	899,761	17,303
Not Reported	0	0	
Totals/Average	135	2,575,388	19,077

TABLE 26, SHEET 4

DISTRIBUTION BY CLAIMANT GENDER MEDICAL DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Claimant Gender	of Claims	of Claims	of Claims
			(3)/(2)
Male	219	4,119,113	18,809
Female	127	2,125,912	16,739
Not Reported	0	0	
Totals/Average	346	6,245,025	18,049

TABLE 26, SHEET 5

DISTRIBUTION BY CLAIMANT GENDER VOCATIONAL REHAB DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Claimant Gender	of Claims	of Claims	of Claims
			(3)/(2)
Male	5	11,940	2,388
Female	2	1,612	806
Not Reported	0	0	
Totals/Average	7	13,552	1,936

TABLE 26, SHEET 6

DISTRIBUTION BY CLAIMANT GENDER EXPENSE DOLLARS

(1)	(2)	(3)	(4)
	Number	Dollar Cost	Average Cost
Claimant Gender	of Claims	of Claims	of Claims
			(3)/(2)
Male	132	375,374	2,844
Female	74	319,527	4,318
Not Reported	0	0	
Totals/Average	206	694,901	3,373