

**Colorado Uninsured Motorists
Report to the Division of
Insurance In Response to HB 97-1209
2001**

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**Colorado Uninsured Motorists
Report to the Division of Insurance
In Response to HB 97-1209**

Executive Summary

This report has been prepared by Insurance Services Office, Inc., (ISO) for the Colorado Division of Insurance in response to Colorado HB 97-1209. One of HB 97-1209's requirements is that all insurers annually report to the Division of Insurance on their personal automobile uninsured motorists claims frequency, and that the Division compile that information and present a report to the Colorado General Assembly.

In response to HB 97-1209, ISO has now collected data for five separate annual periods – the years ending June 30 of 1997 through 2001. Exhibit C summarizes this data. Per Exhibit C, from the year ending June 30, 1997 to the year ending June 30, 2001

- the annualized earned policy count has increased by 17.2 percent
- the number of paid uninsured motorist bodily injury (UMBI) claims has decreased by 21.3 percent
- the number of paid uninsured motorist property damage (UMPD) claims has increased by 11.3 percent.
 - however, the ratio of paid UMPD claims to annualized earned policies has decreased by 5.1 percent

As part of this report, ISO has also estimated the number of uninsured vehicles in Colorado (see Exhibits D.1 and D.2). For reasons described more fully in the report, it is impossible to quantify this number precisely. However, based on the latest available data from the three major personal automobile insurance statistical agents (Insurance Services Office, Inc., the National Association of Independent Insurers, and the National Independent Statistical Service), and a September 1994 study by the Insurance Research Council, ISO developed two separate estimates for the number of uninsured personal automobiles in Colorado.

- Using data from the statistical agents for 1999 and the first half of 2000, plus the Insurance Research Council study, the estimated number of uninsured personal automobiles in Colorado was about 464,000, or about 15.4 percent of the total number of personal automobiles in Colorado. A similar calculation based on data for 1997 and the first half of 1998 results in an estimated number of uninsured personal automobiles of 536,000, or about 18.2 percent of the number of Colorado personal automobiles (see Exhibit E.2 for details).
- Using data for 1999 and the first half of 2000 from the three statistical agents, plus additional internal ISO data, we estimate that the percentage of uninsured personal automobiles in Colorado ranged from a low of 12.7 percent to a high of 27.8 percent, and that the number of uninsured personal automobiles in Colorado ranged from a low of 374,000 to a high of 984,000. A similar calculation using data from 1997 and

the first half of 1998 results in a percentage range of 13.7 percent to 32.9 percent, and a numerical range of 382,000 to 1,181,000 (see Exhibit E.2 for details).

Colorado has implemented a database which is designed to track whether vehicles registered in Colorado are carrying auto insurance. That database became operational on January 1, 1999. As noted above, the calculations and data on Exhibits D.1 and D.2 indicate a drop in the uninsured motorists population over the past several years. This drop might be a result of the database implemented on January 1, 1999.

The data on Exhibit C also indicate that database implemented on January 1, 1999 might be having an impact on the uninsured motorist population in Colorado. Per Exhibit C, the annualized earned policy count has increased by 17.2 percent from the year ending June 30, 1997 to the year ending June 30, 2001. In the same period, paid uninsured motorists bodily injury claims have dropped 21.3 percent. However, in an apparent anomaly, paid uninsured motorists property damage claims have increased by 11.3 percent in the 1997 to 2001 time period. However, this increase could be explained by the policy increase – the ratio of paid UMPD claims to the annualized earned policy count has decreased by 5.1 percent from 1997 to 2001¹.

In summary, all of the statistics examined in this report indicate that the Colorado uninsured motorist population has declined since the implementation of an auto insurance/vehicle registration database in Colorado. None of the statistics examined by this report indicate that the uninsured motorists population has increased since the implementation of the database.

¹ The ratio of paid UMBI claims to the annualized earned policy count has dropped by 32.9 percent from 1997 to 2001. While this is an interesting statistic, and probably significant, it is somewhat of an “apples to oranges” comparison since the paid UMBI claims may result from policies earned in earlier years. UMPD claims probably settle more quickly than UMBI claims, and so the comparison of paid UMPD claims to the current annualized earned policy count is more likely to be a “apples to apples” comparison.

Background

In 1997, HB 97-1209 became law in Colorado. One of HB 97-1209's requirements is that insurers report to the Division of Insurance on their personal automobile uninsured motorists claims frequency, and that the Division compile that information for all Colorado insurers and present a report to the Colorado General Assembly.

Specifically, HB 97-1209 reads:

“(6.5) All insurers actively writing automobile insurance will report their policyholder and uninsured motorists claim numbers to the Commissioner in a manner prescribed by the Commissioner, starting with data for the twelve-month period immediately preceding July 1, 1997.

(7) The Division of Insurance in the Department of Regulatory Agencies shall contract with a company that gathers statistical information concerning personal lines of property and casualty insurance. Said company shall be paid from the Motorists Insurance Identification Account within the Highway Users Tax Fund, and shall report the frequency of uninsured motorist claims to the Division of Insurance on a regular basis. Such report shall include a comparison of the number of uninsured motorist claims with the average number of such claims reported for the twelve-month period immediately preceding July 1, 1997. The Division shall transmit such information to the General Assembly no later than January 1, 1999, and each January 1 thereafter.”

The Division of Insurance contracted with Insurance Services Office, Inc., (ISO) to gather and compile the information required by HB 97-1209. In addition, the Division of Insurance asked ISO to estimate the number of uninsured motorists in Colorado.

ISO Actions

ISO worked with the Division of Insurance to develop specifications for the data to be collected, and to draft a letter to insurers.

In July 2001, the Division of Insurance released its “Call” for data to insurance companies that write personal auto insurance in Colorado (see Exhibit A). The Call contained reporting requirements, the form for companies to submit the required uninsured motorists data to ISO, and deadlines for reporting the data.

ISO then collected data in accordance with the Call, followed up with insurers that were delinquent in reporting, and reviewed the data for reasonableness. Nothing unusual was detected.

ISO also worked with the Division of Insurance to get additional data from the other major Colorado personal automobile statistical agents – the National Association of Independent Insurers (NAII), and the National Independent Statistical Service (NISS) – in order to develop an estimate of the uninsured motorists population in Colorado.

Companies Reporting

Exhibit B lists 624 companies that reported data under HB 97-1209 in 2001.

Companies belonging to a few insurer groups were unable to supply annualized earned policy counts, as specified in the call. Instead, these companies provided in-force policy counts as of December 31, 1999. In general, a mid-year in-force policy count, and an annualized earned policy count will be approximately equal, so the use of an in-force policy count for these companies does not distort our analysis of the data.²

Summary of Reported Data

Exhibit C summarizes the data reported in response to HB 97-1209. Exhibit C shows that the personal automobile annualized earned policy count increased from 2,054,877 for the year ending June 30, 1997 to 2,409,096 for the year ending June 30, 2001 – an increase of 17.2 percent over the five year experience period. During the experience period paid uninsured motorists bodily injury claims have dropped 21.3 percent. However, in an apparent anomaly, paid uninsured motorists property damage claims have increased by 11.3 percent in the 1997 to 2001 time period. However, this increase could be explained by the policy increase – the ratio of paid UMPD claims to the annualized earned policy count has decreased by 5.1 percent from 1997 to 2001.

Colorado has implemented a database which is designed to track whether vehicles registered in Colorado are carrying auto insurance. That database became operational on January 1, 1999. The data on Exhibit C clearly show increases in the annualized earned policy count for each of the annual periods for which data has been collected for this report. (for example, a 3.0 percent increase from the year ending June 30, 2000 to the year ending June 30, 2001, and a 17.2 percent increase from the first year of the experience period to the last year of the experience period). These increases may indicate that the database is causing more motorists to purchase insurance. (There may be other data available which would give an indication of changes in the number of Colorado motorists. If such data were compared to the annualized earned policy count changes shown on Exhibit C, that comparison may give a clearer indication of the change in the percentage of Colorado motorists who purchase insurance. Such a calculation is beyond the scope of this report.)

² The volume of data reported with in-force policy counts was not large enough to cause any significant distortions to this report, even if those in-force policy counts were significantly different from the corresponding annualized earned policy counts.

Colorado Uninsured Motorists Population

ISO also developed estimates of the uninsured motorists population in Colorado using the formula:

$$\text{Uninsured Motorists Population Percentage} = \frac{\text{UMBI Claim Frequency}}{\text{BI Claim Frequency}},$$

where UMBI means uninsured motorists bodily injury, and BI means bodily injury. The basis for this formula is discussed in Appendix 1.

Under Colorado's No-fault law, an injured party must have medical costs exceeding a \$2,500 tort threshold before a bodily injury (BI) claim can be filed against an insured driver, but there is no threshold for filing a BI claim against an uninsured driver.³ Because of the medical expense tort threshold, the above formula must be adjusted, either by adjusting the BI claim frequency upward to eliminate the \$2,500 threshold impact, or by adjusting the UMBI claim frequency downward to remove those UMBI claims filed by claimants with \$2,500 or less in medical expenses.

The data we used to estimate the uninsured motorists population is statistical data reported to the three statistical agents. Each statistical agent supplied voluntary and residual market data from its most recent statistical filing, as follows:

- Insurance Services Office, Inc. – data for the fiscal-accident year ending June 30, 2000
- National Association of Independent Insurers – data for the calendar-accident year ending December 31, 1999
- National Independent Statistical Service – data for the calendar-accident year ending December 31, 1999

In order to calculate the impact of the \$2,500 threshold, we used two additional sources of data:

- In a September 1994 study, Auto Injuries: Claiming Behavior and Its Impact on Insurance Costs, the Insurance Research Council (IRC) examined a sample of Colorado UMBI claims and found that 55.3 percent of Uninsured Motorists Bodily Injury (UMBI) claimants had medical expenses exceeding \$2,500. Assuming this percentage is accurate for all Colorado UMBI claims, Calculation Number 1 on Exhibit D.1 shows how ISO estimates that, for the 1999/2000 period covered in the statistical filings, the percentage of uninsured personal automobiles in Colorado is

³ Specifically, C.R.S 10-4-714 (1) states that no person shall recover against an owner, user or operator of a vehicle unless one of these conditions is met: death, dismemberment, permanent disability, permanent disfigurement or reasonable need for medical services having a reasonable value in excess of \$2,500. By contrast, C.R.S. 10-4-715 states that “nothing in this part 7” limits a tort action against the driver of a vehicle not “actually covered under the provisions of this part 7.”

15.4 percent, and the estimated number of uninsured personal automobiles in Colorado is about 464,000. However, the IRC study was based on a sample of only 76 claims, so the actual statewide percentage of claims with medical expenses exceeding \$2,500 could have been significantly more or less than 55.3 percent. This uncertainty in the estimate of claims with medical expenses exceeding \$2,500 results in a corresponding uncertainty in the estimates of the percentage and number of uninsured personal automobiles.⁴

- Using ISO statistical data for accident year 1999, evaluated as of first quarter 2000, ISO found that 45.9 percent of PIP medical claims exceed \$2,500. Using this data, Calculation Number 2 on Exhibit D.1 estimates that the percentage of uninsured personal automobiles in Colorado for the 1999/2000 time period is between 12.7 percent and 27.8 percent, and that the number of uninsured personal automobiles is between 374,000 and 984,000.

Calculations similar to the calculations on Exhibit D.1 are shown on Exhibits E.1 to E.3 for statistical data from earlier years⁵. The calculations on Exhibits D.1 and E.1 to E.3 are summarized on Exhibit D.2.

About 50 to 60 percent of the statistical data used to develop the estimates on Exhibit D.1 comes from policies that were effective on or after January 1, 1999. The estimates on Exhibits E.1 to E.3 have minimal, or no data from policies that were effective on or after January 1, 1999. Because none of the data used to estimate the uninsured motorist population comes entirely from policies written effective after January 1, 1999, the comparison of the most recent estimate of the uninsured motorist population to earlier estimates is not definitive in establishing whether or not the Colorado uninsured motorists population has declined since the implementation of the auto insurance/car registration database. Nevertheless, summary data on Exhibit D.2 may indicate a declining uninsured motorist population in Colorado.

⁴ Because the IRC study was performed on claims settled in the spring and summer of 1992, ISO analyzed the effects of inflation on the percentage of UMBI claims with medical expenses exceeding \$2,500. ISO found that adjusting for inflation would have no material impact on the percentage of claims with medical expenses exceeding \$2,500, and therefore no such adjustments were made.

⁵ Supplementary Exhibits E.1 to E.3 show the calculation of the uninsured motorist population in Colorado using data from prior reports submitted to the Colorado Division of Insurance. Two calculations are shown – a calculation “Based on IRC Data”, and a calculation “Based on ISO PIP Medical Claims Data”. The calculation based on ISO PIP medical claim data produces an estimated range for the Colorado uninsured motorist population.

Because of a revisions to the “Estimated percentage of Colorado PIP medical expense claims greater than \$2,500” in the second calculation, the lower bounds of the ranges produced by the second calculation are somewhat higher on Exhibits E.1 to E.3 than the corresponding lower bounds were in the original reports. The revised lower bounds are about two percentage points and about fifty to eighty thousand vehicles higher than in the original reports.

Summary

This is the fifth year that data required by HB 97-1209 has been compiled and collected. The data collected in response to HB 97-1209 shows a clear increase in the number of motorists purchasing automobile insurance, and a clear decrease in the number of uninsured motorist paid bodily injury claims over the experience period. The data also shows a decrease in the ratio of paid UMPD claims to annualized earned policies.

All of these statistics indicate that the Colorado uninsured motorist population has declined since the implementation of an auto insurance/vehicle registration database in Colorado. None of the statistics examined by this report indicate that the uninsured motorists population has increased since the implementation of the database.

Calculation of Uninsured Motorists Population

At-Fault Party is:	Injured Party is:	
	Uninsured (x)	Insured (1-x)
Uninsured (x)	x^2	$x-x^2$
Insured (1-x)	$x-x^2$	$1-2x + x^2$

In the above table, assume that the (unknown) percentage of uninsured vehicles is x , so that the percentage of insured vehicles is then $1-x$. Then each box in the above table shows the various probabilities, given that an accident has taken place, that the at-fault and injured parties have the insured or uninsured status indicated. For example, the probability that both the at-fault and the injured party are uninsured is x^2 , while the probability that the injured party is insured, but the at-fault party is uninsured is $x-x^2$.

Note that an uninsured motorists (UM) claim occurs only when the at-fault party is uninsured, and the injured party is insured. Thus the probability that an accident leads to a UM claim is $x-x^2$. Note also that a bodily injury (BI) claim occurs when the at-fault party is insured, and the injured party is either insured or uninsured. Thus the probability that an accident leads to a BI claim is the sum of the two quantities in the bottom row of the above table, that is, $(x-x^2) + (1-2x + x^2) = 1-x$.

But then, the ratio of UM claims to insured claims is $(x-x^2)/(1-x) = x$, which is the percentage of uninsured motorists.

In Colorado, where medical expenses must exceed a tort threshold before a BI claim can be filed, but there is no tort threshold for the filing of a UMBI claim, modifications are necessary before applying the above formula. That is, either the UMBI claim frequency must be adjusted downward for claims which would not have been filed if the tort threshold had been in effect for UMBI claims, or the BI claim frequency must be adjusted upward for the claims which would have been filed if the tort threshold were not in effect.

June 29, 2001

President
«Company_Name»
«Address_Info» «AutoMergeField»
«City», «St» «Zip»

To Whom It May Concern:

Colorado Uninsured Motorists Data Base Required Under HB 97-1209

In 1997, HB 97-1209 became law in Colorado. One of HB 97-1209's requirements is that insurers report to the Division of Insurance on their personal automobile uninsured claims frequency, and that the Division of Insurance compile that information for all Colorado insurers and present a report to the Colorado General Assembly. Initial reporting was required for the year ending June 30, 1997, with annual reports required thereafter.

The Division of Insurance has contracted with Insurance Services Office, Inc., (ISO) to collect and compile the required information for Colorado personal automobile insurers. Reports for the year ending June 30, 2001 are due to ISO by **(6 weeks from date of letter, or September 1, 2001, whichever is later)**.

Attached are reporting instructions and a reporting form for the year ending June 30, 2001. You should mail or fax the reporting form to:

Bernard J. Galiley
Manager and Associate Actuary
Actuarial and Personal Lines Information Division, 17-10
Insurance Services Office
545 Washington Boulevard
Jersey City, NJ 07310-1686
telephone: (201) 469-2313
fax: (201) 748-1799
e-mail: bgaliley@iso.com

If you prefer, ISO will provide you via e-mail with a Microsoft Excel spreadsheet which you can submit via e-mail to ISO. Contact Mr. Galiley at ISO if you wish to use this reporting option.

If you have any technical questions on the reporting requirements, please contact Mr. Galiley at ISO. If you have any questions on whether or not you are required to report in response to HB 97-1209, or on the due dates for reporting, please contact the undersigned.

Sincerely,

A handwritten signature in black ink, appearing to read "Christel L. Szczesniak". The signature is written in a cursive, flowing style.

Christel L. Szczesniak, CPCU, CIE, AIM ARM, CPIW
Special Assistant to the Commissioner
For Property and Casualty Insurance

Instructions for Colorado Personal Auto Uninsured Motorists Data in Response to HB 97-1209

General Instructions:

1. Each insurance company licensed to write personal automobile insurance in Colorado must complete the attached form. You must report on a company basis. You cannot report on a group basis.
2. Data for the year ending June 30, 2001 must be submitted by **(6 weeks from date of letter, or September 1, 2001, whichever is later)**.

Line Specific Instructions:

1. Annualized Earned Policy Count
 - For the year ending June 30, 2001, report the annualized count of policies earned during that year. (Note: two six-month policies will produce a policy count of one on an annualized basis.)
 - Report the annualized policy count for all personal auto policies, not just those policies which include uninsured motorists coverage.
 - A policy count of one should be applied to each policy, regardless of the number of vehicles that the policy insures, the number of operators named on the policy, or the number of coverages which the policy provides.
2. Number of Paid UMBI Claims
 - For the year ending June 30, 2001, report the number of uninsured motorists bodily injury (UMBI) claims which you paid, regardless of when the claim was incurred.
 - Claims for which multiple payments are made should only be counted as one claim.
3. Number of UMBI Claims Closed without Payment
 - For the year ending June 30, 2001, report the number of UMBI claims which you closed without payment, regardless of when the claim was initially reported to you.
4. Number of Paid UMPD Claims
 - For the year ending June 30, 2001, report the number of uninsured motorists property damage (UMPD) claims which you paid, regardless of when the claim was incurred.
 - Claims for which multiple payments are made should only be counted as one claim.
5. Number of UMPD Claims Closed without Payment
 - For the year ending June 30, 2001, report the number of UMPD claims which you closed without payment, regardless of when the claim was initially reported to you.

6. Number of Paid UM Claims

- You are only required to complete this line if you were unable to separately identify your UMBI and UMPD claims.
- For the year ending June 30, 2001, report the number of uninsured motorists (UM) claims which you paid, regardless of when the claim was incurred.
- Claims for which multiple payments are made should only be counted as one claim.

7. Number of UM Claims Closed without Payment

- You are only required to complete this line if you were unable to separately identify your UMBI and UMPD claims.
- For the year ending June 30, 2001, report the number of UM claims which you closed without payment, regardless of when the claim was initially reported to you.

Colorado Personal Auto Uninsured Motorists Data in Response to HB 97-1209

Company Name _____

NAIC Company Number _____

Year Ending
6/30/2001

- 1 Annualized Earned Policy Count _____
- 2 Number of Paid UMBI Claims _____
- 3 Number of UMBI Claims Closed without Payment _____
- 4 Number of Paid UMPD Claims _____
- 5 Number of UMPD Claims Closed without Payment _____
- 6 Number of Paid UM Claims * _____
- 7 Number of UM Claims Closed without Payment ' _____

* to be used only if UM claims cannot be separated into BI and PD claims

Person Supplying Information:

Name: _____

Title: _____

Address: _____

Phone: _____

e-mail: _____

Date Completed: _____

Return or fax this form to:

Bernard J. Galiley
Manager and Associate Actuary
Actuarial and Personal Lines Information Division, 17-10
Insurance Services Office
545 Washington Boulevard
Jersey City, NJ 07310-1686

Fax: (201) 748-1799
Phone: (201) 469-2313
e-mail: bgaliley@iso.com

Companies Responding to HB 97-1209 for Colorado

Acceptance Insurance Co.
ACE American Insurance Company
ACE Fire Underwriters Insurance Company
ACE Indemnity Insurance Company
ACE Property & Casualty Insurance Company
Acstar Insurance Co.
Affiliated FM Insurance Company
Affinity Insurance Group, Inc.
Agricultural Insurance Company
AIG National Insurance Company
AIU Insurance Company
Alaska National Insurance Company
Allegiance Insurance Company
Alliance Insurance Company
Allianz Insurance Company
Allied Property Casualty
Allmerica Financial Alliance
Allstar Insurance Company
Allstate Indemnity Company
Allstate Insurance Company
Allstate Prop & Cas Insurance Company
Alpha Property and Casualty Insurance Company
Amco Insurance Company
American & Foreign Insurance Company
American Agricultural Insurance Company
American Alliance Insurance Company
American Alternative Insurance Company
American Automobile Insurance Company
American Bankers Insurance Company
American Casualty Company of Reading
American Centennial Insurance Company
American Central
American Commerce Insurance Company
American Continental Insurance Company
American Economy Insurance Company
American Empire Insurance Company
American Employers Insurance Company
American Family Home Insurance Company
American Family Mutual Insurance Company
American Federation Insurance Company
American Fire and Casualty Company
American Fire and Indemnity Company
American Fuji Fire and Marine Insurance Company
American General Property Insurance Company
American Guarantee and Liability Insurance Company
American Hardware Mutual Ins Company
American Home Assurance Company
American Indemnity Company, The
American Insurance Company, The
American International Insurance Company
American International Pacific Company
American International South Insurance Company
American Manufacturers Mutual Insurance Company
American Merchants Casualty Company
American Mercury Insurance Company
American Modern Home Insurance Company
American Motorists Insurance Company
American National Fire Insurance Company
American National General Insurance Company
American National Property and Casualty Company
American Premier Insurance Company
American Professionals Insurance Company
American Protection Insurance Company
American Re-Insurance Company
American Reliable Insurance Company
American Risk Funding Insurance Company
American Road Insurance Co
American Safety Casualty Insurance Company
American Security Insurance Company
American Spirit Insurance Company
American Standard Insurance Company of Wisconsin
American States Insurance Co of Texas
American States Insurance Company
American States Preferred Insurance Company
American Summit Insurance Company
American Zurich Insurance Company
Amerisure Insurance Company
Amex Assurance
Amica Mutual Insurance Company
Argonaut Insurance Company
Argonaut-Midwest Insurance Company
Armed Forces Insurance Exchange
Associated Indemnity Corporation
Associates Insurance Company
Assurance Co of America
Athena Assurance Company
Atlanta Casualty Company
Atlanta Specialty Insurance Company
Atlantic Insurance Company
Atlantic Mutual Insurance Company
Atlantic Specialty Insurance Company
Atlas Assurance Company of America
Automobile Insurance Company of Hartford, CT
Auto-Owners Insurance Co
Avemco Insurance Company
Avomark Insurance Company
AXA Corporate Solutions Reinsurance Company
AXA Corporate Solutions Insurance Company
AXA Global Risks US Insurance Company
AXA Re America Insurance Company

AXA Re Property & Casualty Insurance Company
Balboa Insurance Company
Baltica-Skandinavia Reinsurance Co of America, Inc.
Banckinsure
Bankers Multiple Line Insurance Company
Bankers Standard Fire and Marine
Bankers Standard Insurance Company
BCS Insurance Company
Berkley Insurance Company
Berkley Regional Insurance Company
Birmingham Fire Insurance Co of Pennsylvania
Bituminous Casualty Corporation
Bituminous Fire & Marine Insurance Company
Boston Old Colony Insurance Company
Brotherhood Mutual Insurance Company
Buckeye Union Insurance Company
California Casualty Indemnity Exchange
Canal Insurance Company
Carolina Casualty Insurance Company
Casualty Reciprocal Exchange
Centennial Insurance Company
Century Indemnity Company
Century National Insurance Company
CGU Insurance Company
CGU Insurance Company of New Jersey
Charter Oak Fire Insurance Company, The
Chartwell Insurance Company
Chartwell Reinsurance Company
Chicago Insurance Company
Chrysler Insurance Company
Chubb Indemnity Insurance Company
Chubb National Insurance Company
Church Mutual Insurance Company
CIM Insurance Corporation
Cincinnati Casualty Company, The
Cincinnati Insurance Company, The
Citation Insurance Company
Civil Service Employees Insurance Company
Claredon National Insurance Company
Colonial Indemnity Insurance Company
Colonial Penn Franklin Insurance Company
Colonial Penn Insurance Company
Colorado Casualty Insurance Company
Colorado Farm Bureau Mutual Insurance Company
Colorado Western Insurance Company
Columbia Insurance Company
Columbia Mutual Insurance Company
Commerce & Industry Insurance Company
Commercial Insurance Company of Newark, NJ
Commercial Union Insurance Company
Connecticut Indemnity Company
Constitution Insurance Company
Continental Assurance Company
Continental Casualty Company
Continental Divide Insurance Company
Continental Insurance Company
Continental National Indemnity Company
Continental Reinsurance Corporation
Continental Western Casualty Company
Continental Western Insurance Company
Contractors Bonding and Insurance Company
CORE Insurance Company
Coregis Insurance Company
Cornhusker Casualty Company
Country Casualty Insurance Company
Country Mutual Insurance Company
Country Preferred Insurance Company
Credit General Insurance Company
CSE Safeguard Insurance Company
CUMIS Insurance Society, Inc.
Dairyland Insurance
Deerbrook Insurance Company
Deerfield Insurance Company
Depositors Insurance Company
Diamond State Insurance Company
Discover Property & Casualty
Eagle American Insurance Company
Economy Premier Assurance Company
Electric Insurance Company
EMCASCO Insurance Company
Empire Fire and Marine Insurance Company
Employers Fire Insurance Company
Employers Insurance of Wausau A Mutual Company
Employers Mutual Casualty Company
Employers Reinsurance Corporation
Equity Mutual Insurance Company
Everest National Insurance Company
Everest Reinsurance Company
Evergreen National Indemnity Company
Executive Risk Indemnity Inc.
Fairfield Insurance Company
Fairmont Insurance Company
Farmers Alliance Mutual Insurance Company
Farmers Insurance Exchange
Farmington Casualty Company
Farmland Mutual Insurance Company
Federal Insurance Company
Federated Mutual Insurance Company
Federated Service Insurance Company
Fidelity & Casualty Company of New York, The
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
Financial Indemnity Company
Financial Pacific Insurance Company

Fire and Casualty Insurance Co of CT
Fire Insurance Exchange
Fireman's Fund Insurance Company
Fireman's Fund Insurance Company of Nebraska
Fireman's Insurance Company of Newark, NJ
Fireman's Insurance Company of Wisconsin
First American Insurance Company
First Community Insurance Company
First Financial Insurance Company
First Liberty Insurance Corp
First National Insurance Company of America
First State Insurance Company
Florists Mutual Insurance Company
Foremost Insurance Company
Foremost Property & Casualty Ins Co
Foremost Signature Insurance Company
Fortuity Insurance Company
Frankenmuth Mutual Insurance Company
Fremont Company
Frontier Insurance Company
Geico Casualty Insurance Company
Geico General Insurance Company
Geico Indemnity Insurance Company
General Accident Insurance Company of America
General Casualty Company of Wisconsin
General Insurance Company of America
General Reinsurance Corporation
General Star National Insurance Co.
General Security Insurance Company
Generali U.S. Branch
Genesis Insurance Company
Gerling America Insurance Company
Gerling Global Reinsurance Corporation of America
Glens Falls Insurance Company, The
Globe American Casualty
Globe Indemnity Company
GMAC Direct Insurance Company
GMAC Insurance Company Online, Inc.
Government Employees Insurance Company
Grain Dealers Mutual Insurance Company
Grange Insurance Association
Granite State Insurance Company
Gray Tnsurance Company
Great American Assurance Company
Great American Insurance Company
Great American Insurance Company of New York
Great Divide Insurance Company
Great Midwest Insurance Company
Great Northern Insurance Company
Great West Casualty Company
Greater New York Mutual Insurance Company
Greatway Insurance Company
Greenwich Insurance Company
Grocers Insurance Company
Guarantee Insurance Company
Guaranty National Insurance Company
GuideOne America Insurance Company
GuideOne Elite Insurance Company
GuideOne Mutual Insurance Company
GuideOne Specialty Mutual Insurance Company
Gulf Insurance Company
Halcyon Insurance Company
Hanover Insurance Company
Harco National Insurance Company
Harleysville Mutual Insurance Company
Hartford Accident & Indemnity Company
Hartford Casualty Insurance Company
Hartford Fire Insurance Company
Hartford Insurance Company of the Midwest
Hartford Underwriters Insurance Company
Hawkeye-Security Insurance Company
Health Care Indemnity Inc.
Heritage Indemnity Company
Heritage Mutual Insurance Company
Highlands Insurance Company
Homesite Indemnity Company
Horace Mann Insurance Company
Houston General Insurance Company
Hudson Insurance Company
ICM Insurance Company
IGF Insurance Company
Illinois National Insurance Company
Indemnity Insurance Co of North America
Indiana Lumbermens Mutual Insurance Company
Infinity Insurance Company
Infinity Select Insurance Company
INSCORP - Insurance Corporation of New York
Insura Property & Casualty Insurance Company
Insurance Company of Illinois
Insurance Company of the State of Pennsylvania
Insurance Company of North America
Insurance Company of the West
Insurance Corporation of Hannover
Insurance Corp of New York
Integon General Insurance Corporation
Integon Indemnity Corporation
Integon National Insurance Company
International Insurance Company
Interstate Fire and Casualty Company
JCPenney Casualty Insurance Company
Jefferson Insurance Company
Kansas City Fire & Marine Insurance Company
Kemper Auto and Home Insurance Company
Kemper Casualty Insurance Company

Kemper Employers Insurance Company
Kemper Independence Insurance Company
KOA (USB)
Lancer Ins. Co.
Landmark Insurance Company
Lawrenceville Property and Casualty Company
Leader Insurance Company
Legion Insurance Company
Liberty Insurance Corporation
Liberty Insurance Underwriters
Liberty Mutual Fire Insurance Company
Liberty Mutual Insurance Company
Lincoln General Ins. Co.
Lincoln National Health & Casualty Ins. Co.
LM Insurance Corp.
London Assurance of America
Lumbermens Mutual Casualty Company
Lyndon Property Insurance Company
Manufacturers Alliance Insurance Company
Mapfre Reinsurance Corporation
Markel American Company
Markel Insurance Company
Maryland Casualty Company
Massachusetts Bay Insurance
Mayflower Insurance Company
MBIA Insurance Corporation of Illinois
MEDMARC Casualty Insurance Company
Mendakota Insurance Company
Mendota Insurance Company
Merastar Insurance Company
Meritplan Insurance Company
Metropolitan Casualty Insurance Company
Metropolitan Direct Property & Casualty Insurance Company
Metropolitan General Insurance Company
Metropolitan Property and Casualty Insurance Company
MIC General Insurance Corp
MIC Property and Casualty Insurance Corp
Michigan Mutual Insurance Co
Mid-Century Insurance Company
Mid-Continent Casualty Company
Millers Casualty Insurance Company, The
Millers Mutual Insurance Association
Minnesota Fire and Casualty Company
Milwaukee Casualty Insurance Company
Milwaukee Mutual Insurance Company
Mountain States Mutual Casualty Company
A Mutual Company
Mutual Protective Insurance Company
Mutual Service Casualty Insurance Company
National Alliance Insurance Company
National American Insurance Company
National Ben Franklin Insurance Company of IL
National Casualty Company
National Continental Insurance Company
National Fire Insurance Company of Hartford, CT
National General Assurance Company
National General Insurance Company
National Indemnity Company
National Insurance Association
National Insurance Underwriters
National Interstate Insurance Company
National Liability & Fire Insurance Company
National Reinsurance Corporation
National Surety Corporation
National Union Fire Insurance Company
Nationwide Affinity Insurance Company of America
Nationwide Agribusiness Insurance Company
Nationwide Assurance Company
Nationwide Insurance Company of America
Nationwide Mutual Fire Insurance Company
Nationwide Mutual Insurance Company
Nationwide Property and Casualty Company
Navigators Insurance Company
New England Insurance Company
New England Reinsurance Corporation
New Hampshire Indemnity Company
New Hampshire Insurance Company
New South Insurance Company
Newark Insurance Company
Niagra Fire Insurance Company
NN Insurance Company
Nobel Insurance Company
North American Elite
North American Specialty Insurance Company
Northland Casualty Company
Northland Insurance Company
North River Insurance Company
North Star Reinsurance Corporation
Northbrook Indemnity
Northbrook Property & Casualty
Northern Assurance Company
Northern Insurance Company of New York
Northland Casualty Company
Northland Insurance Company
Northwestern National Casualty Company
Odyssey America Reinsurance Corporation
Odyssey Reinsurance Corporation
OHIC Insurance Company
Ohio Casualty Insurance Company
Ohio Farmers Insurance Company
Ohio Security Insurance Company
Old Republic Insurance Company
Old Republic Minnehoma Insurance Company

Old United Casualty Company
Omaha Indemnity Company
Omaha Property and Casualty Insurance Company
Omni Indemnity Co
Omni Insurance Co
Orion Insurance Co
Overseas Partners US Reinsurance Company
Owners Insurance Co
Pacific Employers Insurance Company
Pacific Indemnity Company
Pacific Insurance Company
Pacific Pioneer Insurance Company
Pacific Specialty Insurance
Pafco General Insurance Company
Partner Reinsurance Company of New York
Partner Reinsurance Company of the U.S.
Pathfinder Insurance Company
Peak Property and Casualty Insurance Corporation
Peerless Insurance Company
Penn-America Insurance Company
Pennsylvania Manufacturer's Association Insurance Company
Pennsylvania National Mutual Casualty Insurance Company
Pharmacists Mutual Insurance Company
PHICO Insurance Company
Philadelphia Indemnity Insurance Company
Phoenix Assurance Company of NY
Phoenix Insurance Company, The
Planet Indemnity Company
Potomac Insurance Company of Illinois
Professionals Advocate Ins. Company
Progressive American
Progressive Casualty Insurance Company
Progressive Classic Insurance Company
Progressive Max Insurance Company
Progressive Mountain Insurance Company
Progressive Northern Insurance Company
Progressive Northwestern Insurance Company
Progressive Preferred Insurance Company
Progressive Specialty Insurance Company
Progressive West Insurance Company
Pro Select National Insurance Company, Inc.
Protective Insurance Company
Providence Washington Insurance Company
Prudential Commercial Insurance Company
Prudential General Insurance Company
Prudential Property & Casualty Insurance Company
Public Service Mutual Insurance Company
Putnam Reinsurance Co.
Reciprocal of America
Red Shield Insurance Co.

Redwood Fire & Casualty Insurance Company
Redland Insurance Co.
Rigal Insurance Company
Regent Insurance Co.
Reliance Direct Insurance Company
Reliance National Indemnity Company
Reliance National Insurance Company
Reliance Reinsurance Company
Reliance Universal Insurance Company
Reliant Insurance Company
Republic Fire & Casualty Insurance Company
Republic Indemnity Company of America
Republic Indemnity Company of California
Republic Insurance Company
Republic Underwriters Insurance Company
Republic Western Insurance Company
Response Insurance Company
RLI Insurance Company
Rockwood Casualty Insurance Company
Rocky Mountain Fire and Casualty Company
Royal Indemnity Company
Royal Insurance Company of America
Royal Special Risks Insurance
PXRE Reinsurance Company
Safeco Insurance Company of America
Safeco Insurance Company of Illinois
Safeco Insurance Company of Pennsylvania
Safeco Insurance Company of Oregon
Safeco National Insurance Company
Safeguard Insurance Company
Safety National Casualty Corporation
Sagamore Insurance Company
San Francisco Reinsurance Company
Scottsdale Indemnity Company
Sea Insurance Company
Seaton Insurance Company
Security Insurance Company of Hartford
Security National Insurance Company
Select Insurance Company
Selective Insurance Company of New York
Seneca Insurance Company
Sentry Insurance A Mutual Company
Seven Hills Insurance Company
Shelby Casualty Insurance Company
Shelby Insurance Company
Shelter General Insurance Company
Shelter Mutual Insurance Company
Signet Star Insurance Company
Sorema North America Reinsurance Company
Southern Insurance Company
Specialty National Insurance Company
St. Paul Fire and Marine Insurance Company

St. Paul Guardian Insurance Company
St. Paul Medical Liability
St. Paul Mercury Insurance Company
Standard Fire Insurance Company
Star Insurance Company
Starnet Insurance Company
State Farm Fire and Casualty Company
State Farm General Insurance
State Farm Mutual Automobile Insurance Company
Stratford Insurance Company
Sumitomo Marine & Fire Insurance Company, Ltd.
Sun Insurance Office of America
Swiss Reinsurance America Corporation
Teachers Insurance Company
Texas General Indemnity Company
TIG Indemnity Company
TIG Insurance Company
TIG Premier Insurance Company
TIG Specialty Insurance Company
Titan Indemnity Company
Tower Insurance Company
Tokio Marine & Fire Insurance Company, LTD, U.S.
Branch
Toyota Motor Insurance Company
Traders & Pacific Insurance Company
Transatlantic Reinsurance Company
Transcontinental Insurance Company
Transguard Insurance Company of America, Inc.
Trans Pacific Insurance Company
Transport Insurance Company
Transportation Insurance Company
Travco Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
Travelers Casualty and Surety Company of Illinois
Travelers Casualty Company of Connecticut
Travelers Commercial Insurance Company
Travelers Home & Marine Insurance Company, The
Travelers Indemnity Company
Travelers Indemnity Company of America
Travelers Indemnity Company of Connecticut, The
Travelers Indemnity Company of Illinois, The
Travelers Indemnity Company of Missouri, The
Trenwick America Reinsurance Corporation
Trinity Universal Insurance Company
Trinity Universal Insurance Company of Kansas
Tri-state Insurance Company
Tri-state Insurance Company of MN
Truck Insurance Exchange
Trumbull Insurance Company
Twin City Fire Insurance Company
U.S. Specialty Insurance Company
Ulico Casualty Company
Underwriter for the Professions Insurance Company
Underwriters Ins. Co.
Unigard Indemnity Company
Unigard Insurance Company
Union Insurance Company
Union Insurance Company of Providence
Union Standard Insurance Group
United Financial Casualty Company
United Fire & Casualty
United Pacific Insurance Company
United Security Insurance Company
United Services Automobile Association
United States Fidelity and Guaranty Company
United States Fire Insurance Company
United States Liability Insurance Company
Universal Underwriters Insurance Company
USAA Casualty Insurance Company
USAA General Indemnity Company
USF & G Business
USF & G Family
Utica Mutual Ins Co
Valiant Insurance Company
Valley Forge Insurance Company
Valley Insurance Company
Vesta Fire Insurance Corporation
Vesta Insurance Corporation
Victoria Automobile Insurance Co.
Victoria Fire & Casualty Co.
Victoria Select Insurance Company
Vigilant Insurance Company
Viking Insurance Company of Wisconsin
Virginia Surety Company, Inc.
Warner Insurance Company
Wasatch Crest Insurance Company
Wausau Business Insurance Company
Wausau Underwriters Insurance Company
Wesco Insurance Company
West American Insurance Company
Westchester Fire Insurance Company
Western Agricultural Insurance Company
Western Continental Insurance Company
Western National Assurance Co
Westfield Insurance Company
Westfield National Insurance Company
Westport Insurance Company
Wilshire Insurance Company
Windsor Insurance Company
Winterthur International America Insurance Company
Workmen's Auto Insurance Company
Worldwide Insurance Company
XL Reinsurance America Inc.

XL Specialty Insurance Company
Yasuda Fire & Marine Insurance Company, The
York Insurance Company
ZC Insurance Company
Young America Insurance Company
Zenith Insurance Company
Zurich American Insurance Company of Illinois
Zurich Insurance Company - US Branch
Zurich Reinsurance (North America)

Colorado Personal Auto Uninsured Motorists Data in Response to HB 97-1209 - SUMMARY REPORT

	Year Ending					% Change				
	<u>6/30/1997</u>	<u>6/30/1998</u>	<u>6/30/1999</u>	<u>6/30/2000</u>	<u>6/30/2001</u>	<u>97-98</u>	<u>98-99</u>	<u>99-00</u>	<u>00-01</u>	<u>1997-2001</u>
1 Annualized Earned Policy Count	2,054,877	2,087,657	2,188,626	2,337,830	2,409,096	1.6%	4.8%	6.8%	3.0%	17.2%
2 Number of Paid UMBI Claims	3,477	3,259	3,213	3,273	2,735	-6.3%	-1.4%	1.9%	-16.4%	-21.3%
3 Number of UMBI Claims Closed without Payment	2,842	3,152	2,572	2,356	1,568	10.9%	-18.4%	-8.4%	-33.4%	-44.8%
4 Number of Paid UMPD Claims	1,080	1,172	1,356	1,375	1,202	8.5%	15.7%	1.4%	-12.6%	11.3%
5 Number of UMPD Claims Closed without Payment	358	476	558	554	514	33.0%	17.2%	-0.7%	-7.2%	43.6%
6 Number of Paid UM Claims *	151	163	127	104	175	7.9%	-22.1%	-18.1%	68.3%	15.9%
7 Number of UM Claims Closed without Payment *	231	220	128	197	179	-4.8%	-41.8%	53.9%	-9.1%	-22.5%

* to be used only if UM claims cannot be separated into BI and PD claims

ESTIMATED NUMBER OF UNINSURED VEHICLES IN COLORADO

<u>Subline</u>	(1) <u>Earned Exposures *</u>	(2) <u>Claim Counts *</u>	(3) = (2)/(1) <u>Claim Frequency</u>
Bodily Injury	2,558,009	11,153	0.0044 (A)
Uninsured Motorists Bodily Injury	2,372,348	2,873	0.0012 (B)

Calculation Number 1 -- Based on IRC Claim Data

(1) Percentage of UMBI claims with more than \$2,500 in medical expenses:	55.3%
(2) Adjusted UMBI claim frequency = (B) X (1)	0.0007
(3) Estimated uninsured population percentage = (2) / (A)	15.4%
(4) Calculated number of uninsured vehicles = 2,413,070 X (3) / [1.0 - (3)]	464,215

Calculation Number 2 -- Based on ISO PIP Medical Claims Data

(5) Percentage of PIP medical expense claims greater than \$2,500	45.9%
(6) Uninsured motorist population percentage -- upper bound (assumes no UMBI claims are filed when a PIP medical claim is less than or equal to \$2,500) = (B) / (A)	27.8%
(7) Uninsured motorist population percentage -- lower bound (assumes a UMBI claim is filed for all PIP medical claims less than or equal to \$2,500) = (5) X (B) / (A)	12.7%
Estimated range of number of uninsured vehicles in Colorado	373,700 to 983,756

* Data Sources:

Insurance Services Office -- data for fiscal-accident years ending June 30, 2000

National Association of Independent Insurers -- data for calendar-accident year ending December 31, 1999

National Independent Statistical Service -- data for calendar-accident year ending December 31, 1999

ESTIMATED NUMBER OF UNINSURED VEHICLES IN COLORADO
Prior and Current Estimates

Calculation Number 1 -- Based on IRC Claim Data

	<u>1998 Report</u>	<u>1999 Report</u>	<u>2000 Report</u>	<u>2001 Report</u>
Percentage	15.9%	18.2%	16.6%	15.4%
Number	442,736	535,836	483,807	464,215

Calculation Number 2 -- Based on ISO PIP Medical Claims Data

	<u>1998 Report</u>	<u>1999 Report</u>	<u>2000 Report</u>	<u>2001 Report *</u>
<u>Percentage Range</u>				
Lower Bound	12.0%	13.7%	13.2%	12.7%
Upper Bound	28.8%	32.9%	30.1%	27.8%
<u>Numerical Range</u>				
Lower Bound	317,950	381,899	370,088	373,700
Upper Bound	945,636	1,180,983	1,043,211	983,756

* Colorado has implemented a database designed to track whether vehicles registered in Colorado are carrying auto insurance. That database became operational on January 1, 1999. Only the "2001 Report" calculations are based on data from policies which all became effective on or after January 1, 1999.

The "1998 Report" and "1999 Report" calculations are not based on any data from policies which became effective on or after January 1, 1999. A small percentage of the data used in the "2000 Report" calculations comes from policies that became effective on or after January 1, 1999. For the "2001 Report", an estimated 50% to 60% of the data comes from policies that became effective on or after January 1, 2001.

Supplementary Exhibits

The following supplementary exhibits show the calculations of the uninsured motorist population in Colorado using data from prior reports submitted to the Colorado Division of Insurance. Two calculations are shown -- a calculation "Based on IRC Claim Data", and a calculation "Based on ISO PIP Medical Claims Data". The calculation based on ISO PIP medical claim data produces an estimated range for the Colorado uninsured motorist population (see report for details).

Because of a revision to the "Estimated percentage of Colorado PIP medical expense claims greater than \$2,500" in the second calculation, the lower bounds of the ranges produced by the second calculation are somewhat higher in the following exhibits than the corresponding lower bounds were in the original reports. The revised lower bounds are about two percentage points and about fifty to eighty thousand vehicles higher than the lower bounds calculated in the original reports.

ESTIMATED NUMBER OF UNINSURED VEHICLES IN COLORADO

<u>Subline</u>	(1) Earned <u>Exposures *</u>	(2) Incurred Claim <u>Counts *</u>	(3) = (2)/(1) Claim <u>Frequency</u>
Bodily Injury	2,423,558	11,228	0.0046 (A)
Uninsured Motorists Bodily Injury	2,260,945	3,152	0.0014 (B)

Calculation Number 1 -- Based on IRC Claim Data

(1) Estimated percentage of Colorado UMBI claims with more than \$2,500 in medical expenses:	55.3%
(2) Adjusted UMBI claim frequency = (B) X (1)	0.0008
(3) Estimated uninsured population percentage = (2) / (A)	16.6%
(4) Calculated number of uninsured vehicles = 2,423,558 X (3) / [1.0 - (3)]	483,807

Calculation Number 2 -- Based on ISO PIP Medical Claims Data

(5) Estimated percentage of Colorado PIP medical expense claims greater than \$2,500	44.0%
(6) Uninsured motorist population percentage -- upper bound (assumes no UMBI claims are filed when a PIP medical claim is less than or equal to \$2,500) = (B) / (A)	30.1%
(7) Uninsured motorist population percentage -- lower bound (assumes a UMBI claim is filed for all PIP medical claims less than or equal to \$2,500) = (5) X (B) / (A)	13.2%
Estimated range of number of uninsured vehicles in Colorado	370,088 to 1,043,211

* Data Sources:

Insurance Services Office -- data for fiscal-accident years ending June 30, 1999

National Association of Independent Insurers -- data for calendar-accident year ending December 31, 1998

National Independent Statistical Service -- data for calendar-accident year ending December 31, 1998

ESTIMATED NUMBER OF UNINSURED VEHICLES IN COLORADO

<u>Subline</u>	(1) <u>Earned Exposures *</u>	(2) <u>Claim Counts *</u>	(3) = (2)/(1) <u>Claim Frequency</u>
Bodily Injury	2,413,070	11,267	0.0047 (A)
Uninsured Motorists Bodily Injury	2,257,121	3,463	0.0015 (B)

Calculation Number 1 -- Based on IRC Claim Data

(1) Percentage of UMBI claims with more than \$2,500 in medical expenses:	55.3%
(2) Adjusted UMBI claim frequency = (B) X (1)	0.0008
(3) Estimated uninsured population percentage = (2) / (A)	18.2%
(4) Calculated number of uninsured vehicles = 2,413,070 X (3) / [1.0 - (3)]	535,856

Calculation Number 2 -- Based on ISO PIP Medical Claims Data

(5) Percentage of PIP medical expense claims greater than \$2,500	41.6%
(6) Uninsured motorist population percentage -- upper bound (assumes no UMBI claims are filed when a PIP medical claim is less than or equal to \$2,500) = (B) / (A)	32.9%
(7) Uninsured motorist population percentage -- lower bound (assumes a UMBI claim is filed for all PIP medical claims less than or equal to \$2,500) = (5) X (B) / (A)	13.7%
Estimated range of number of uninsured vehicles in Colorado	381,899 to 1,180,983

* Data Sources:

Insurance Services Office -- data for fiscal-accident years ending June 30, 1998

National Association of Independent Insurers -- data for calendar-accident year ending December 31, 1997

National Independent Statistical Service -- data for calendar-accident year ending December 31, 1997

Estimated Number of Uninsured Vehicles in Colorado

<u>Subline</u>	(1) Earned <u>Exposures *</u>	(2) Claim <u>Counts *</u>	(3) = (2)/(1) Claim <u>Frequency *</u>
Bodily Injury	2,333,454	13,507	0.0058
Uninsured Motorists Bodily Injury	2,179,266	3,638	0.0017

Calculation Number 1 -- Based on IRC Claim Data

Percentage of UMBI claims with more than \$2,500 in medical expenses:	55.3%
Adjusted UMBI claim frequency = UMBI claim frequency X 55.3% =	0.0009
Calculated uninsured population percentage = Adjusted UMBI claim frequency/BI claim frequency	15.9%
Calculated number of uninsured vehicles **	442,736

Calculation Number 2 -- Based on ISO PIP Medical Claims Data

Percentage of PIP medical expense claims greater than \$2,500	41.6%
Uninsured motorist population percentage -- upper bound (assumes no UMBI claims are filed when a PIP medical claims is less than or equal to \$2,500) = UMBI claim frequency/BI claim frequency	28.8%
Uninsured motorist population percentage -- lower bound (assumes a UMBI claims is filed for all PIP medical claims less than or equal to \$2,500) = (UMBI claim frequency X 35.3%)/BI claim frequency	12.0%
Estimated range of number of uninsured vehicles in Colorado **	317,950 to 945,636

* Data Sources:

Insurance Services Office -- data for fiscal-accident year ending June 30, 1997
National Association of Independent Insurers -- data for calendar-accident year ending December 31, 1996
National Independent Statistical Service -- data for calendar-accident year ending December 31, 1996

** Calculated by multiplying the number of bodily injury exposures times the uninsured motorists percentage, divided by the quantity (unity minus the estimated percentage of uninsured motorists).