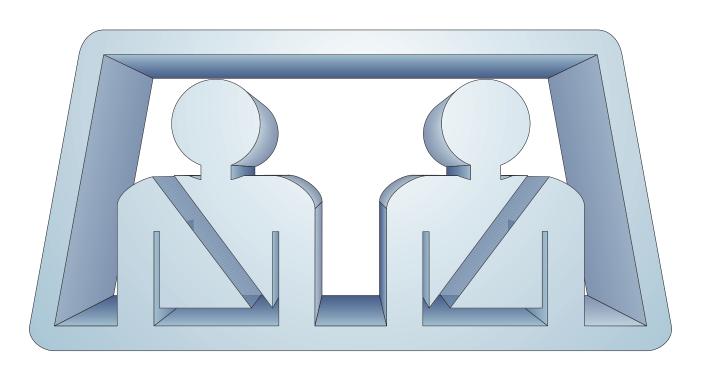
1999 Seat Belt Usage Survey



Site surveys conducted by troopers of the Iowa State Patrol, Department of Public Safety

Statistics compiled and survey written by the Office of Driver Services, Iowa Department of Transportation

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1999 SEAT BELT USAGE SURVEY

During October 1999, 78.02 percent of motorists surveyed on lowa roadways were wearing seat belts, an increase of 1.15 percent from last year (see Chart 1-Seat Belt Usage).

Safety belt usage on municipal road systems (city streets) led the way with a 1.79 percent increase, erasing last year's decrease of 1.12 percent. This is encouraging since more than 45 percent of all motor vehicle crashes occur on city streets.

In communities where usage is good, enforcement and public education must be maintained in order to improve usage further; in communities where usage is still low, enforcement and public education must both be increased.

| Chart 1 - Seat Belt Usage | | | | | | | | | | | | |
|---------------------------|----------|--------|--------------------|----------|---------|--------------------|--------|--|--|--|--|--|
| | | 1998 | | | Percent | | | | | | | |
| Road Type | Observed | Used | Percentage Used | Observed | Used | Percentage Used | Change | | | | | |
| Statewide Total* | 20,856 | 16,140 | 76.87% | 19,789 | 15,501 | 78.02% | 1.15% | | | | | |
| Municipal | 5,499 | 3,853 | 70.07% | 5,451 | 3,917 | 71.86% | 1.79% | | | | | |
| Interstate | 7,584 | 6,352 | 83.76% | 6,821 | 5,715 | 83.79% | 0.03% | | | | | |
| Primary | 6,764 | 5,133 | 75.89% | 5,842 | 4,535 | 77.63% | 1.74% | | | | | |
| Secondary | 1,009 | 802 | 79.48% | 1,675 | 1,334 | 79.64% | 0.16% | | | | | |

education must both be Secondary 1,,003 | 502 | 502 | 503 | 504 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 | 505 |

Usage on the primary system (U.S. or state highways) rose 1.74 percent from the previous year. This is also welcome news because almost half of all fatalities (49 percent) occur on the primary road system. Interstate belt use increased slightly (0.03 percent). Interstate usage has traditionally been the highest of all roadway categories presumably because the longer trips, higher travel speeds and large number of vehicles cause drivers to assume there is greater risk.

Safety belt usage on the secondary system (county roads) showed a 0.16 percent increase over last year. When taking into account that approximately one-third (33.59 percent) of all motor vehicle crash fatalities occur on the secondary road system¹, continued efforts toward increased enforcement and public education for the motoring public concerning the importance of safety belt and child safety seat usage on the secondary road system (county roads), even for short-distance trips, must be maintained.

Belt usage for 19,789 front seat occupants of cars, vans and pickups was observed at 100 locations. Of these front seat occupants, 79.71 percent of drivers (11698 out of 14676) and 74.38 percent of passengers (3803 out of 5113) were observed using seat belts. For 703 front seat occupants, belt usage or non-usage could not be determined.

Methodology

The methodology of this survey follows prior surveys by using a sample of 100 sites that were selected on the basis of population, geographical location, and statewide vehicle miles traveled by road system. (See Chart 17—Site Selection Listing, and Chart 18—Site Selection by County.) The surveys have primarily been conducted at the same sites since 1988. The development of the survey follows specifications of the National Highway Traffic Safety Administration². The survey was conducted by troopers of the lowa State Patrol, Department of Public Safety, between 6 a.m. and 6 p.m., Monday through Sunday. Observations were made for approximately one hour at each site.

Belt Law Background

The lowa law mandating seat belt usage went into effect July 1, 1986. A \$10 fine, plus court costs, was effective January 1, 1987. The law requires front seat occupants, age 6 and older, to properly wear a seat belt in 1966 or newer model motor vehicles. The law allows primary enforcement (i.e., officers can stop a vehicle when non-use of belts is observed). Medical exemptions and other exemptions are allowed. Children under the age of 6 are covered by the child restraint law, which went into effect January 1, 1985. The child restraint usage law

¹ Iowa Department of Transportation, <u>1995 Iowa Crash Facts</u>, Roadway & Environment Conditions, p. 71.

^{2 &}quot;Guidelines for State Observational Surveys of Safety Belt & Motorcycles Helmet Use, Federal Register," Vol 57 No. 125, June 29, 1992, p. 28903.

requires children under age 3 to be in an approved safety seat, and children ages 3 to 6 must be in a safety seat or seat belt in any position in the vehicle. Copies of the annual child restraint survey results are also available through the lowa Department of Transportation.

Enforcement

The seat belt law has been actively enforced in the state. There were 76,494 seat belt citations and 4,054 child restraint citations issued in 1998 through law enforcement efforts, a decrease from 79,627 and 4,639, respectively, in 1997 (See Charts 14 through 16 for seat belt/child restraint citations issued). lowa's seat belt usage rates followed trends similar to those in other states, showing a large increase after fines were first imposed (increasing from 27 percent in June 1986 to 63 percent in April 1987). In September 1987, usage dropped to 56 percent, but enforcement and public education has steadily increased usage to the current 78 percent.

Summary

The 78 percent seat belt usage rate in 1999 (up 7 percent since 1992) reflects active

between state and local law enforcement, lowa will strive to increase the use of seat belts and save lives on lowa roadways.

Chart 2 Percentage of Restraint Usage by Year & Road

| Survey | All | Municipal | Interstate | Primary | Secondary |
|--------|-----|-----------|------------|---------|-----------|
| JUN 86 | 27% | 20% | 43% | 27% | 24% |
| SEP 86 | 46% | 34% | 62% | 48% | 42% |
| APR 87 | 63% | 54% | 69% | 65% | 64% |
| SEP 87 | 56% | 48% | 67% | 56% | 55% |
| SEP 88 | 55% | 46% | 69% | 55% | 52% |
| SEP 89 | 59% | 49% | 72% | 56% | 61% |
| SEP 90 | 61% | 49% | 76% | 60% | 61% |
| SEP 91 | 68% | 64% | 79% | 64% | 64% |
| SEP 92 | 71% | 62% | 83% | 69% | 71% |
| SEP 93 | 73% | 59% | 80% | 73% | 71% |
| SEP 94 | 73% | 63% | 82% | 72% | 72% |
| SEP 95 | 75% | 65% | 85% | 75% | 76% |
| SEP 96 | 75% | 69% | 85% | 74% | 71% |
| NOV 97 | 75% | 69% | 85% | 74% | 71% |
| OCT 98 | 77% | 70% | 84% | 76% | 79% |
| OCT 99 | 78% | 72% | 84% | 78% | 80% |

NOTE: For easier comparison, percentages have been rounded to the nearest full digit.

Chart 3
Usage Percent by Year — All Road Types

enforcement and education efforts that have occurred in lowa during the last few years. Through continuing education of the public, an active "Life Toll" campaign, seat belt enforcement, and other cooperative efforts

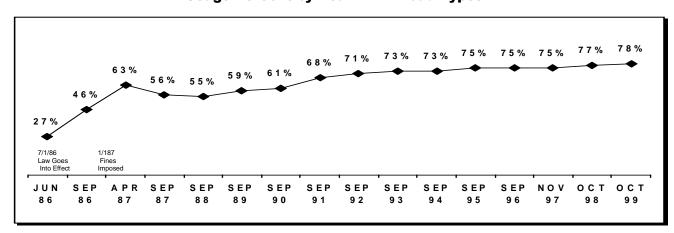


Chart 4 Usage Percent by Year - CITY

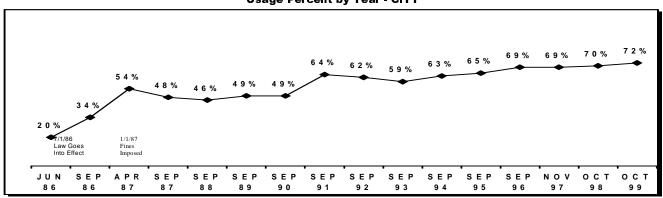


Chart 5
Usage Percent by Year - INTERSTATE

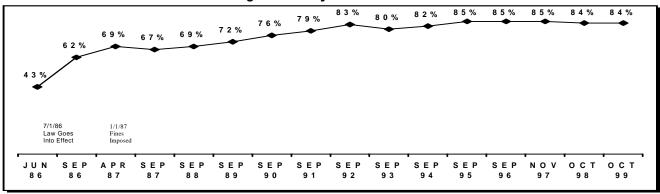


Chart 6
Usage Percent by Year - PRIMARY

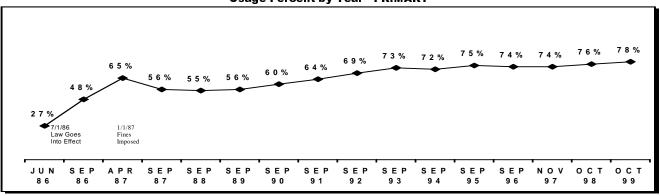


Chart 7
Usage Percent by Year - SECONDARY

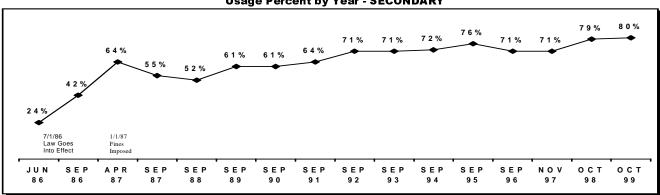


Chart 8
Survey Results by County & Road System

| | Survey Results by County & Road System Passengers Total | | | | | | | | |
|-------------------------|--|---------------|-------------------|-----------------|---------------|-------------------|-----------------|---------------|-------------------|
| County & Road System | Number | Be | Ited | Number | Bel | Ited | Number | Be | Ited |
| BUENA VISTA | Observed 482 | Number 446 | Percent 92.53% | Observed 186 | Number 154 | Percent 82.80% | Observed 668 | Number 600 | Percent 89.82% |
| Municipal | 142 | 130 | 92.55% 91.55% | 58 | 45 | 77.59% | 200 | 175 | 87.50% |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 277 | 258 | 93.14% | 111 | 92 | 82.88% | 388 | 350 | 90.21% |
| Secondary | 63 366 | 58 286 | 92.06% 78.14% | 17 135 | 17 113 | 100.00% 83.70% | 80 501 | 75 399 | 93.75% 79.64% |
| BUTLER Municipal | 169 | 111 | 65.68% | 21 | 12 | 57.14% | 190 | 123 | 64.74% |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 189 | 167 | 88.36% | 113 | 100 | 88.50% | 302 | 267 | 88.41% |
| Secondary | 8 | 8 | 100.00% | 1 | 1 | 100.00% | 9 | 9 | 100.00% |
| CLARKE Municipal | 372 137 | 222 87 | 59.68% 63.50% | 93 31 | 54 17 | 58.06% 54.84% | 465 168 | 276 104 | 59.35% 61.90% |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 235 | 135 | 57.45% | 62 | 37 | 59.68% | 297 | 172 | 57.91% |
| Secondary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| CLAY Municipal | 651 400 | 503 300 | 77.27% 75.00% | 121 60 | 63 19 | 52.07% 31.67% | 772 460 | 566 319 | 73.32% 69.35% |
| Interstate | N/A | N/A | 75.00 % N/A | N/A | N/A | N/A | N/A | N/A | 09.33 // N/A |
| Primary | 207 | 172 | 83.09% | 53 | 40 | 75.47% | 260 | 212 | 81.54% |
| Secondary | 44 | 31 | 70.45% | 8 | 4 | 50.00% | 52 | 35 | 67.31% |
| DALLAS | 327 | 290 | 88.69% | 98 | 63 | 64.29% | 425 | 353 | 83.06% |
| Municipal Interstate | N/A 197 | N/A 182 | N/A 92.39% | N/A 52 | N/A 35 | N/A 67.31% | N/A 249 | N/A 217 | N/A 87.15% |
| Primary | 130 | 108 | 83.08% | 46 | 28 | 60.87% | 176 | 136 | 77.27% |
| Secondary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| DECATUR | 681 | 565 | 82.97% | 280 | 229 | 81.79% | 961 | 794 | 82.62% |
| Municipal Interstate | N/A 503 | N/A | N/A | N/A | N/A 189 | N/A | N/A | N/A | N/A |
| Primary | 104 | 434 80 | 86.28% 76.92% | 220 42 | 28 | 85.91% 66.67% | 723 146 | 623 108 | 86.17% 73.97% |
| Secondary | 74 | 51 | 68.92% | 18 | 12 | 66.67% | 92 | 63 | 68.48% |
| FRANKLIN | 886 | 830 | 93.68% | 403 | 377 | 93.55% | 1,289 | 1,207 | 93.64% |
| Municipal | 78 | 58 | 74.36% | 9 | 5 | 55.56% | 87 | 63 | 72.41% |
| Interstate Primary | 631 160 | 611 146 | 96.83% 91.25% | 354 36 | 339 29 | 95.76% 80.56% | 985 196 | 950 175 | 96.45% 89.29% |
| Secondary | 17 | 15 | 88.24% | 4 | 4 | 100.00% | 21 | 19 | 90.48% |
| KEOKUK | 87 | 71 | 81.61% | 31 | 21 | 67.74% | 118 | 92 | 77.97% |
| Municipal | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Interstate Primary | N/A 87 | N/A 71 | N/A 81.61% | N/A 31 | N/A 21 | N/A 67.74% | N/A 118 | N/A 92 | N/A 77.97% |
| Secondary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| LINN | 1,090 | 986 | 90.46% | 470 | 344 | 73.19% | 1,560 | 1,330 | 85.26% |
| Municipal | 247 | 219 | 88.66% | 89 | 68 | 76.40% | 336 | 287 | 85.42% |
| Interstate Primary | 456 276 | 422 245 | 92.54% 88.77% | 213 108 | 145 85 | 68.08% 78.70% | 669 384 | 567 330 | 84.75% 85.94% |
| Secondary | 111 | 100 | 90.09% | 60 | 46 | 76.67% | 171 | 146 | 85.38% |
| LOUISA | 169 | 117 | 69.23% | 45 | 25 | 55.56% | 214 | 142 | 66.36% |
| Municipal | 53 | 30 | 56.60% | 14 | 10 | 71.43% | 67 | 40 | 59.70% |
| Interstate Primary | N/A 100 | N/A 76 | N/A 76.00% | N/A 20 | N/A 15 | N/A 75.00% | N/A 120 | N/A 91 | N/A 75.83% |
| Secondary | 160 | 11 | 68.75% | 11 | 0 | 0.00% | 27 | 11 | 40.74% |
| POLK | 2,471 | 1,975 | 79.93% | 590 | 397 | 67.29% | 3,061 | 2,372 | 77.49% |
| Municipal | 1,233 | 901 | 73.07% | 313 | 199 | 63.58% | 1,546 | 1,100 | 71.15% |
| Interstate | 1,029 | 915 | 88.92% | 223 | 156 | 69.96% | 1,252 | 1,071 | 85.54% |
| Primary Secondary | 209 N/A | 159 N/A | 76.08% N/A | 54 N/A | 42 N/A | 77.78% N/A | 263 N/A | 201 N/A | 76.43% N/A |
| POTTAWATTAMIE | 1,880 | 1,384 | 73.62% | 620 | 388 | 62.58% | 2,500 | 1,772 | 70.88% |
| Municipal | 382 | 264 | 69.11% | 136 | 80 | 58.82% | 518 | 344 | 66.41% |
| Interstate | 963 | 724 | 75.18% | 317 | 208 | 65.62% | 1,280 | 932 | 72.81% |
| Primary Secondary | 389 146 | 293 103 | 75.32% 70.55% | 121 46 | 71 29 | 58.68% 63.04% | 510 192 | 364 132 | 71.37% 68.75% |
| SCOTT | 1,649 | 1,321 | 80.11% | 957 | 838 | 87.57% | 2,606 | 2,159 | 82.85% |
| Municipal | 494 | 384 | 77.73% | 121 | 85 | 70.25% | 615 | 469 | 76.26% |
| Interstate | 429 | 356 | 82.98% | 232 | 195 | 84.05% | 661 | 551 | 83.36% |
| Primary Secondary | 589 | 474 | 80.48% | 118 486 | 92 | 77.97% | 707 | 566 572 | 80.06% |
| STORY | 137 1,916 | 107 1,497 | 78.10% 78.13% | 584 | 466 428 | 95.88% 73.29% | 623 2,500 | 573 1,925 | 91.97% 77.00% |
| Municipal | 455 | 347 | 76.26% | 152 | 106 | 69.74% | 607 | 453 | 74.63% |
| Interstate | 782 | 627 | 80.18% | 220 | 177 | 80.45% | 1,002 | 804 | 80.24% |
| Primary | 579 | 455 | 78.58% | 178 | 120 | 67.42% | 757 | 575 | 75.96% |
| Secondary WAPELLO | 100 1,093 | 68 782 | 68.00% 71.55% | 34 387 | 25 240 | 73.53% 62.02% | 134 1,480 | 93 1,022 | 69.40% 69.05% |
| Municipal | 449 | 322 | 71.71% | 153 | 96 | 62.75% | 602 | 418 | 69.44% |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 511 | 370 | 72.41% | 183 | 117 | 63.93% | 694 | 487 | 70.17% |
| Secondary WARREN | 133 286 | 90 239 | 67.67% 83.57% | 51 56 | 27 37 | 52.94% 66.07% | 184 342 | 117 276 | 63.59% 80.70% |
| Municipal | 286 N/A | 239 N/A | 83.57% N/A | N/A | N/A | 66.07% N/A | 342 N/A | 276 N/A | 80.70% N/A |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 231 | 195 | 84.42% | 49 | 35 | 71.43% | 280 | 230 | 82.14% |
| Secondary | 55 | 44 | 80.00% | 7 | 2 | 28.57% | 62 | 46 | 74.19% |
| WASHINGTON Municipal | 270 47 | 184 19 | 68.15% 40.43% | 57 8 | 32 | 56.14% 37.50% | 327 55 | 216 22 | 66.06% 40.00% |
| Interstate | N/A | N/A | 40.43 /6 N/A | N/A | N/A | 37.50 % N/A | N/A | N/A | 40.00 % N/A |
| Primary | 203 | 154 | 75.86% | 41 | 25 | 60.98% | 244 | 179 | 73.36% |
| Secondary | 20 | 11 | 55.00% | 8 | 4 | 50.00% | 28 | 15 | 53.57% |

Chart 9
Survey Results by Population Category & Road System

| Population & Road System | Total Observed | 77.7 | nt Used | | Not Used | | Unknown |
|-----------------------------|----------------|-------|---------|-----|----------|-----|---------|
| A Over 200,000 | 3,828 | 3,001 | 78.40% | 749 | 19.57% | | 2.04% |
| Municipal | 1,546 | 1,100 | 71.15% | 423 | 27.36% | | 1.49% |
| Interstate | 1,501 | 1,288 | 85.81% | 167 | 11.13% | 46 | 3.06% |
| Primary | 719 | 567 | 78.86% | 144 | 20.03% | 8 | 1.11% |
| Secondary | 62 | 46 | 74.19% | 15 | 24.19% | 1 | 1.61% |
| B 150,000 to 199,999 | 4,166 | 3,489 | 83.75% | | 11.71% | | 4.54% |
| Municipal | 951 | 756 | 79.50% | 155 | 16.30% | 40 | 4.21% |
| Interstate | 1,330 | 1,118 | 84.06% | 130 | 9.77% | 82 | 6.17% |
| Primary | 1,091 | 896 | 82.13% | 150 | 13.75% | 45 | 4.12% |
| Secondary | 794 | 719 | 90.55% | 53 | 6.68% | | 2.77% |
| C 75,000 to 149,999 | 2,500 | 1,772 | 70.88% | 648 | 25.92% | 80 | 3.20% |
| Municipal | 518 | 344 | 66.41% | 159 | 30.69% | 15 | 2.90% |
| Interstate | 1,280 | 932 | 72.81% | 290 | 22.66% | 58 | 4.53% |
| Primary | 510 | 364 | 71.37% | 139 | 27.25% | 7 | 1.37% |
| Secondary | 192 | 132 | 68.75% | 60 | 31.25% | 0 | 0.00% |
| D 25,000 to 74,999 | 3,980 | 2,947 | 74.05% | 936 | 23.52% | 97 | 2.44% |
| Municipal | 1,209 | 871 | 72.04% | 306 | 25.31% | 32 | 2.65% |
| Interstate | 1,002 | 804 | 80.24% | 171 | 17.07% | 27 | 2.69% |
| Primary | 1,451 | 1,062 | 73.19% | 356 | 24.53% | 33 | 2.27% |
| Secondary | 318 | 210 | 66.04% | | 32.39% | | 1.57% |
| E Under 25,000 | 5,315 | 4,292 | 80.75% | 764 | 14.37% | 259 | 4.87% |
| Municipal | 1,227 | 846 | 68.95% | 262 | 21.35% | 119 | 9.70% |
| Interstate | 1,708 | 1,573 | 92.10% | 106 | 6.21% | 29 | 1.70% |
| Primary | 2,071 | 1,646 | 79.48% | 325 | 15.69% | 100 | 4.83% |
| Secondary | 309 | 227 | 73.46% | 71 | 22.98% | 11 | 3.56% |

NOTE: Includes both passengers and drivers.

Chart 10
Survey Results by Road System & Population

| | our vey results by reduce by stem as a operation | | | | | | | | | | | |
|-----------------------------|--|---------|---------|-----------|----------|-------------------|-------|--|--|--|--|--|
| Road System & Population | Total Observed | Restrai | nt Used | Restraint | Not Used | Restraint Unknown | | | | | | |
| Municipal | 5,451 | 3,917 | 71.86% | 1,305 | 23.94% | 229 | 4.20% | | | | | |
| Over 200,000 | 1,546 | 1,100 | 71.15% | 423 | 27.36% | 23 | 1.49% | | | | | |
| 150,000 to 199,999 | 951 | 756 | 79.50% | 155 | 16.30% | 40 | 4.21% | | | | | |
| 75,000 to 149,999 | 518 | 344 | 66.41% | 159 | 30.69% | 15 | 2.90% | | | | | |
| 25,000 to 74,999 | 1,209 | 871 | 72.04% | 306 | 25.31% | 32 | 2.65% | | | | | |
| Under 25,000 | 1,227 | 846 | 68.95% | 262 | 21.35% | 119 | 9.70% | | | | | |
| Interstate | 6,821 | 5,715 | 83.79% | 864 | 12.67% | 242 | 3.55% | | | | | |
| Over 200,000 | 1,501 | 1,288 | 85.81% | 167 | 11.13% | 46 | 3.06% | | | | | |
| 150,000 to 199,999 | 1,330 | 1,118 | 84.06% | 130 | 9.77% | 82 | 6.17% | | | | | |
| 75,000 to 149,999 | 1,280 | 932 | 72.81% | 290 | 22.66% | 58 | 4.53% | | | | | |
| 25,000 to 74,999 | 1,002 | 804 | 80.24% | 171 | 17.07% | 27 | 2.69% | | | | | |
| Under 25,000 | 1,708 | 1,573 | 92.10% | 106 | 6.21% | 29 | 1.70% | | | | | |
| Primary | 5,842 | 4,535 | 77.63% | 1,114 | 19.07% | 193 | 3.30% | | | | | |
| Over 200,000 | 719 | 567 | 78.86% | 144 | 20.03% | 8 | 1.11% | | | | | |
| 150,000 to 199,999 | 1,091 | 896 | 82.13% | 150 | 13.75% | 45 | 4.12% | | | | | |
| 75,000 to 149,999 | 510 | 364 | 71.37% | 139 | 27.25% | 7 | 1.37% | | | | | |
| 25,000 to 74,999 | 1,451 | 1,062 | 73.19% | 356 | 24.53% | 33 | 2.27% | | | | | |
| Under 25,000 | 2,071 | 1,646 | 79.48% | 325 | 15.69% | 100 | 4.83% | | | | | |
| Secondary | 1,675 | 1,334 | 79.64% | 302 | 18.03% | 39 | 2.33% | | | | | |
| Over 200,000 | 62 | 46 | 74.19% | 15 | 24.19% | 1 | 1.61% | | | | | |
| 150,000 to 199,999 | 794 | 719 | 90.55% | 53 | 6.68% | 22 | 2.77% | | | | | |
| 75,000 to 149,999 | 192 | 132 | 68.75% | 60 | 31.25% | 0 | 0.00% | | | | | |
| 25,000 to 74,999 | 318 | 210 | 66.04% | 103 | 32.39% | 5 | 1.57% | | | | | |
| Under 25,000 | 309 | 227 | 73.46% | 71 | 22.98% | 11 | 3.56% | | | | | |

NOTE: Includes both passengers and drivers.

Chart 11
Survey Results by Time of Day & Road System

| Time & Bood System | Tatal Ohaannad | Destroi | | | Net lleed | Doctroin | t Unknown |
|-----------------------------|----------------|--------------|------------------|------------|------------------|-----------|----------------|
| Time & Road System | Total Observed | | nt Used | | Not Used | | |
| 7:00-7:59 a.m. | 1,748 | 1,327 | 75.92% | 363 | 20.77% | 58 | 3.32% |
| Municipal | 756 | 552 | 73.02% | 167 | 22.09% | 37 | 4.89% |
| Interstate | 457 | 361 | 78.99% | 85 | 18.60% | 11 | 2.41% |
| Primary | 440 | 342 | 77.73% | 89 | 20.23% | 9 | 2.05% |
| Secondary | 95 | 72 | 75.79% | 22 | 23.16% | 1 | 1.05% |
| 8:00-8:59 a.m. Municipal | 1,561 | 1,189 | 76.17% | 328 | 21.01% | 44 | 2.82% |
| Interstate | 586 N/A | 407 N/A | 69.45% N/A | 163 N/A | 27.82% N/A | 16 N/A | 2.73% N/A |
| Primary | N/A 874 | 713 | 81.58% | 135 | 15.45% | 26 | 2.97% |
| Secondary | 101 | 69 | 68.32% | 30 | 29.70% | 20 2 | 1.98% |
| 9:00-9:59 a.m. | 2,011 | 1,588 | 78.97% | 355 | 17.65% | 68 | 3.38% |
| Municipal | 1,058 | 772 | 72.97% | 260 | 24.57% | 26 | 2.46% |
| Interstate | 797 | 710 | 89.08% | 55 | 6.90% | 32 | 4.02% |
| Primary | 122 | 83 | 68.03% | 35 | 28.69% | 4 | 3.28% |
| Secondary | 34 | 23 | 67.65% | 5 | 14.71% | 6 | 17.65% |
| 10:00-10:59 a.m. | 1,949 | 1,562 | 80.14% | 321 | 16.47% | 66 | 3.39% |
| Municipal | 541 | 423 | 78.19% | 94 | 17.38% | 24 | 4.44% |
| Interstate | 886 | 738 | 83.30% | 127 | 14.33% | 21 | 2.37% |
| Primary | 477 | 378 | 79.25% | 82 | 17.19% | 17 | 3.56% |
| Secondary | 45 | 23 | 51.11% | 18 | 40.00% | 4 | 8.89% |
| 11:00-11:59 a.m. | 1,347 | 1,121 | 83.22% | 169 | 12.55% | 57 | 4.23% |
| Municipal | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Interstate | 996 | 832 | 83.53% | 121 | 12.15% | 43 | 4.32% |
| Primary | 276 | 229 | 82.97% | 40 | 14.49% | 7 | 2.54% |
| Secondary | 75 | 60 | 80.00% | 8 | 10.67% | 7 | 9.33% |
| 12:00-12:59 a.m. | 1,312 | 915 | 69.74% | 364 | 27.74% | 33 | 2.52% |
| Municipal | 190 | 123 | 64.74% | 61 | 32.11% | 6 | 3.16% |
| Interstate | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Primary | 1,049 | 750 | 71.50% | 272 | 25.93% | 27 | 2.57% |
| Secondary | 73 | 42 | 57.53% | 31 | 42.47% | 0 | N/A |
| 1:00-1:59 p.m. | 1,568 | 1,322 | 84.31% | 184 | 11.73% | 62 | 3.95% |
| Municipal | 55 | 22 | 40.00% | 28 | 50.91% | 5 | 9.09% |
| Interstate Primary | 437 453 | 365 362 | 83.52% 79.91% | 63 52 | 14.42% 11.48% | 9 | 2.06% 8.61% |
| Secondary | 623 | 573 | 91.97% | 52 41 | 6.58% | 9 | 1.44% |
| 2:00-2:59 p.m. | 1,761 | 1,475 | 83.76% | 245 | 13.91% | 41 | 2.33% |
| Municipal | 260 | 181 | 69.62% | 71 | 27.31% | 8 | 3.08% |
| Interstate | 565 | 542 | 95.93% | 14 | 2.48% | 9 | 1.59% |
| Primary | 663 | 527 | 79.49% | 118 | 17.80% | 18 | 2.71% |
| Secondary | 273 | 225 | 82.42% | 42 | 15.38% | 6 | 2.20% |
| 3:00-3:59 p.m. | 1,444 | 1,052 | 72.85% | 298 | 20.64% | 94 | 6.51% |
| Municipal | 341 | 233 | 68.33% | 50 | 14.66% | 58 | 17.01% |
| Interstate | 545 | 443 | 81.28% | 86 | 15.78% | 16 | 2.94% |
| Primary | 402 | 276 | 68.66% | 106 | 26.37% | 20 | 4.98% |
| Secondary | 156 | 100 | 64.10% | 56 | 35.90% | - | N/A |
| 4:00-4:59 p.m. | 1,605 | 1,269 | 79.07% | 274 | 17.07% | 62 | 3.86% |
| Municipal | 509 | 367 | 72.10% | 124 | 24.36% | 18 | 3.54% |
| Interstate | 784 | 635 | 80.99% | 115 | 14.67% | 34 | 4.34% |
| Primary | 232 | 192 | 82.76% | 31 | 13.36% | 9 | 3.88% |
| Secondary | 80 | 75 | 93.75% | 4 | 5.00% | 1 | 1.25% |
| 5:00-5:59 p.m. | 1,365 | 1,090 | 79.85% | 236 | 17.29% | 39 | 2.86% |
| Municipal | 179 | 118 | 65.92% | 56 | 31.28% | 5 | 2.79% |
| Interstate | 580 606 | 486 | 83.79% 80.20% | 69 | 11.90% 18.32% | 25 9 | 4.31% 1.49% |
| Primary | | 486 | | 111 | | | |
| Secondary | N/A 2,118 | N/A 1,591 | N/A 75.12% | N/A 448 | N/A 21.15% | N/A 79 | N/A 3.73% |
| 6:00-6:59 p.m. Municipal | 2,118 976 | 719 | 75.12% 73.67% | 231 | 21.15% | 26 | 2.66% |
| Interstate | 774 | 603 | 73.67% 77.91% | 129 | 23.67% 16.67% | 42 | 5.43% |
| Primary | 248 | 197 | 77.91% 79.44% | 129 | 17.34% | 8 | 3.23% |
| Secondary | 120 | 72 | 79.44% 60.00% | 45 | 37.50% | 3 | 2.50% |
| NOTE: Includes both pas | | 12 | 00.00% | 45 | 37.30% | 3 | 2.50% |

NOTE: Includes both passengers and drivers.

Chart 12 Survey Results by Area & Road System

| Area of State & Roa | d Total Observed | Restrai | nt Used | Restraint | : Not Used | Restraint Unknown | | | |
|---------------------|------------------|---------|---------|-----------|------------|-------------------|--------|--|--|
| System | | | | | | | | | |
| Northeast | 3,350 | 2,936 | 87.64% | 266 | 7.94% | 148 | 4.42% | | |
| Municipal | 613 | 473 | 77.16% | 104 | 16.97% | 36 | 5.87% | | |
| Interstate | 1,654 | 1,517 | 91.72% | 79 | 4.78% | 58 | 3.51% | | |
| Primary | 882 | 772 | 87.53% | 69 | 7.82% | 41 | 4.65% | | |
| Secondary | 201 | 174 | 86.57% | 14 | 6.97% | 13 | 6.47% | | |
| Northwest | 3,940 | 3,091 | 76.09% | 661 | 14.72% | 188 | 9.19% | | |
| Municipal | 1,267 | 947 | 71.07% | 216 | 18.00% | 104 | 10.93% | | |
| Interstate | 1,002 | 804 | N/A | 171 | N/A | 27 | N/A | | |
| Primary | 1,405 | 1,137 | 82.47% | 222 | 10.68% | 46 | 6.84% | | |
| Secondary | 266 | 203 | 89.92% | 52 | 5.04% | 11 | 5.04% | | |
| Southeast | 4,745 | 3,631 | 78.33% | 931 | 20.21% | 183 | 1.46% | | |
| Municipal | 1,339 | 949 | 70.25% | 342 | 27.77% | 48 | 1.98% | | |
| Interstate | 661 | 551 | 86.60% | 74 | 13.40% | 36 | 0.00% | | |
| Primary | 1,883 | 1,415 | 79.15% | 383 | 19.04% | 85 | 1.81% | | |
| Secondary | 862 | 716 | 76.58% | 132 | 22.04% | 14 | 1.38% | | |
| Southwest | 7,754 | 5,843 | 74.40% | 1,727 | 23.94% | 184 | 1.66% | | |
| Municipal | 2,232 | 1,548 | 66.20% | 643 | 32.77% | 41 | 1.03% | | |
| Interstate | 3,504 | 2,843 | 81.01% | 540 | 16.53% | 121 | 2.46% | | |
| Primary | 1,672 | 1,211 | 67.85% | 440 | 31.67% | 21 | 0.49% | | |
| Secondary | 346 | 241 | 67.69% | 104 | 32.31% | 1 | 0.00% | | |

NOTE: Includes both passengers and drivers.

Chart 13
Survey Results by Day of Week & Road System

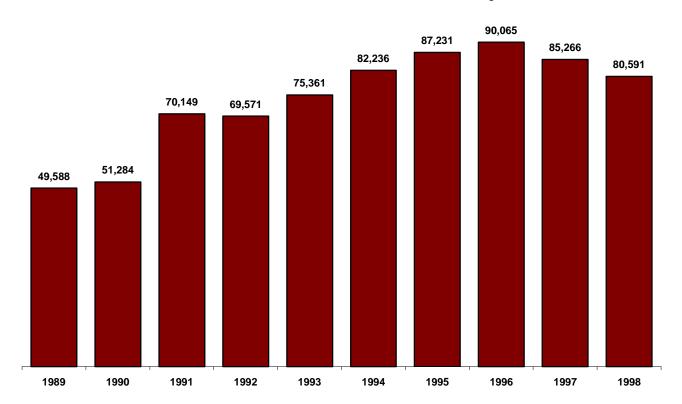
| Day of Week & Road | | arrey recear | | | • | | |
|--------------------|----------------|--------------|---------|-----------|----------|-----------|---------|
| System System | Total Observed | Restrai | nt Used | Restraint | Not Used | Restraint | Unknown |
| Sunday | 1,754 | 1,575 | 89.79% | 128 | 7.30% | 51 | 2.91% |
| Municipal | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Interstate | 1,196 | 1,139 | 95.23% | 27 | 2.26% | 30 | 2.51% |
| Primary | 504 | 395 | 78.37% | 95 | 18.85% | 14 | 2.78% |
| Secondary | 54 | 41 | 75.93% | 6 | 11.11% | 7 | 12.96% |
| Monday | 2,601 | 1,980 | 76.12% | 527 | 20.26% | 94 | 3.61% |
| Municipal | 363 | 256 | 70.52% | 84 | 23.14% | 23 | 6.34% |
| Interstate | 1,740 | 1,398 | 80.34% | 288 | 16.55% | 54 | 3.10% |
| Primary | 330 | 202 | 61.21% | 119 | 36.06% | 9 | 2.73% |
| Secondary | 168 | 124 | 73.81% | 36 | 21.43% | 8 | 4.76% |
| Tuesday | 988 | 759 | 76.82% | 157 | 15.89% | 72 | 7.29% |
| Municipal | 348 | 268 | 77.01% | 59 | 16.95% | 21 | 6.03% |
| Interstate | 202 | 158 | 78.22% | 30 | 14.85% | 14 | 6.93% |
| Primary | 417 | 314 | 75.30% | 66 | 15.83% | 37 | 8.87% |
| Secondary | 21 | 19 | 90.48% | 2 | 9.52% | 0 | N/A |
| Wednesday | 2,616 | 2,002 | 76.53% | 547 | 20.91% | 67 | 2.56% |
| Municipal | 968 | 696 | 71.90% | 248 | 25.62% | 24 | 2.48% |
| Interstate | 545 | 443 | 81.28% | 86 | 15.78% | 16 | 2.94% |
| Primary | 876 | 682 | 77.85% | 173 | 19.75% | 21 | 2.40% |
| Secondary | 227 | 181 | 79.74% | 40 | 17.62% | 6 | 2.64% |
| Thursday | 5,136 | 3,938 | 76.67% | 1,072 | 20.87% | 126 | 2.45% |
| Municipal | 1,948 | 1,384 | 71.05% | 526 | 27.00% | 38 | 1.95% |
| Interstate | 1,723 | 1,429 | 82.94% | 242 | 14.05% | 52 | 3.02% |
| Primary | 1,312 | 1,005 | 76.60% | 276 | 21.04% | 31 | 2.36% |
| Secondary | 153 | 120 | 78.43% | 28 | 18.30% | 5 | 3.27% |
| Friday | 3,482 | 2,575 | 73.95% | 748 | 21.48% | 159 | 4.57% |
| Municipal | 1,110 | 758 | 68.29% | 266 | 23.96% | 86 | 7.75% |
| Interstate | 498 | 377 | 75.70% | 95 | 19.08% | 26 | 5.22% |
| Primary | 1,620 | 1,262 | 77.90% | 312 | 19.26% | 46 | 2.84% |
| Secondary | 254 | 178 | 70.08% | 75 | 29.53% | 1 | 0.39% |
| Saturday | 3,528 | 2,672 | 75.74% | 406 | 11.51% | 450 | 12.76% |
| Municipal | 714 | 555 | 77.73% | 122 | 17.09% | 37 | 5.18% |
| Interstate | 917 | 771 | 84.08% | 96 | 10.47% | 50 | 5.45% |
| Primary | 783 | 675 | 86.21% | 73 | 9.32% | 351 | 44.83% |
| Secondary | 798 | 671 | 84.09% | 115 | 14.41% | 12 | 1.50% |

NOTE: Includes both passengers and drivers.

Chart 14
Seat Belt/Child Restraint Citations Issued by Month & Year

| Month | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| January | 4,058 | 4,381 | 3,529 | 5,163 | 4,470 | 4,790 | 6,334 | 5,038 | 4,673 | 5,244 |
| February | 3,445 | 4,605 | 6,014 | 6,465 | 5,236 | 6,558 | 7,452 | 6,778 | 6,391 | 5,820 |
| March | 4,598 | 5,235 | 6,950 | 6,765 | 6,292 | 8,071 | 7,806 | 10,403 | 9,785 | 8,188 |
| April | 5,110 | 4,723 | 7,277 | 6,920 | 6,793 | 8,379 | 7,263 | 8,634 | 8,387 | 7,260 |
| May | 5,115 | 5,666 | 8,272 | 7,517 | 8,457 | 9,090 | 8,826 | 11,266 | 9,131 | 10,205 |
| June | 4,380 | 4,625 | 9,029 | 7,043 | 7,015 | 8,070 | 8,727 | 9,416 | 8,367 | 7,138 |
| July | 4,452 | 5,169 | 6,108 | 6,556 | 7,016 | 8,023 | 8,504 | 8,646 | 9,039 | 7,489 |
| August | 4,206 | 4,241 | 5,865 | 5,798 | 6,017 | 6,801 | 7,284 | 8,887 | 7,931 | 6,553 |
| September | 4,410 | 4,127 | 6,215 | 5,740 | 6,889 | 6,381 | 7,773 | 6,458 | 6,489 | 6,827 |
| October | 3,504 | 3,476 | 4,146 | 4,095 | 6,235 | 5,360 | 5,399 | 5,036 | 5,737 | 4,774 |
| November | 3,560 | 3,186 | 3,253 | 3,804 | 5,499 | 5,522 | 6,430 | 5,387 | 4,991 | 6,192 |
| December | 2,750 | 1,850 | 3,491 | 3,705 | 5,442 | 5,191 | 5,433 | 4,116 | 4,345 | 4,901 |
| Total | 49,588 | 51,284 | 70,149 | 69,571 | 75,361 | 82,236 | 87,231 | 90,065 | 85,266 | 80,591 |

Chart 15
Seat Belt/Child Restraint Citations Issued by Year



1998 Seat Belt/Child Restraint Citations Issued by County of Residence Chart 16

Total Child Restraint Citations - 4,057 Total Seat Belt Citations - 76,538

Other County child Restraint Citations - 24

Other County Seat Belt Citations - 293

| | | | ſ | Dubudue | 52 - 1,154 | | Jackson | 18 - 496 | Clinton | 86 - 1,226 | | Scott 271 - 4.202 | | | | 1 | | | | |
|-----------|-----------------------|-------------------------|-------------------------|-------------|-------------|-----------------|---------|-----------|-----------------|------------|------------------|-------------------|-----------|------------------------|--------------------------|------------|-------------------|-------------|--------------|---|
| | Vinnesmer Anamakee | | 6 21 - 372 | Delaware | 20 - 395 | | linn | | 195 - 5,046 | Cedar | Johnson 20 - 432 | 56 - 1,522 | Muscatine | Washington 158 - 1,317 | 18 - 390 Louisa 32 - 356 | Henry | 45 - 507 52 - 972 | ᅩ | Lee 57 - 865 | |
| | | - '- | 39 - 466 | /k Buchanan | 18 48 - 607 | | Renton | | 18 - 572 19 | | lowa J | 7 - 327 5 | | Keokuk Wash | 13 - 321 18 - | Jefferson | 15 - 337 | Van Buren | 11 - 187 | |
| - | 10 - 168 | Chickasaw 10 - 264 | Bremer 29 - 484 | Black Hawk | 104 - 2,418 | | Tama | | 37 - 656 1 | | Poweshiek | 4 - 490 | | | | Wapello | 100 - 1,140 | Davis | 18 - 200 | |
| 101011 | 6 - 114 | Floyd 26 - 370 | Butler 9 - 419 | | Grundy | 6 - 269 | | Marshall | 79 - 1,081 | | | 46 - 978 4 | | n Mahaska | 82 35 - 614 | Monroe | 15 - 220 | Appanoose | 38 - 559 | Citations |
| 197 (197. | worm 7 - 122 | Cerro Gordo 45 - 940 | Franklin 7 - 257 | | Hardin | 15 - 492 | | Story Ma | 32 - 1,248 79 | | Jasper | | | en Marion | 905 44 - 982 | Lucas | 21 - 332 | Wayne A | 8 - 197 | Child Restraint Citations - Seat Belt Citations |
| | Winnebago 11 - 194 | Hancock C | Wright 15 - 453 | | Hamilton | 19 - 378 | | Boone | 22 - 533 32 · | | Polk | 42 484 - 9,279 | | on Warren | 72 36 - 905 | Clarke | 13 - 313 | Decatur | 18 - 300 | raint Citation |
| | Nossum Nossum | 4 - 439 | Humboldt 9 - 371 | Webster | 64 - 1,545 | | | Greene Bo | | | Dallas | 4 43 - 842 | | Madison | 9 20 - 572 | | | Ringgold De | | Child Rest |
| + | | Г | | _ | ┙ | 15 - 373 | | Gree | 20 - 291 | | Guthrie | 25 - 284 | | Adair | 16 - 299 | Union | 23 - 399 | Ring | 7 - 156 | - |
| ` - | 20 - 425 | Palo Alto | a Pocahontas 7 - 347 | | Calhoun | | | Carroll | 22 - 688 | | Audubon | 11 - 203 | | Cass | 26 - 820 | Adams | 9 - 93 | Taylor | 11 - 187 | |
| | 18 - 586 | Clay 29 - 800 | Buena Vista 72 - 970 | | Sac | 30 20 - 630 | | Crawford | 68 - 682 | | Shelby A | 22 - 341 | | | 8 | Montgomery | 49 - 529 | Page | 53 - 570 | |
| 100 | Osceola 14 - 295 | O'Brien 29 - 588 | Cherokee 38 - 727 | | lda | 33 - 380 | | Cra | 89 | | | | | Pottawattamie | 248 - 4,401 | Mills | 25 - 509 | Fremont | 13 - 222 | 1 |
| 1 | 21 - 498 | Sioux 79-1,149 | Plymouth 20 - 582 | | Woodbury | 93-1,456 Pag | ge . | Monona | 16 - 221 | | Harrison | 20 - 635 | لر | Pot | | ≥ سرسر | 25 | ı. | 13 | J |

Chart 17

Site Selection Listing

| | | | | | | Select | 1011 | LISTII | ıg | | |
|----------|-------------------|-----------------|-------------------|--------------------------------|----------|------------------------|---------------|---------------|--------------------------|---|-----------------------|
| Sito | Total Observed | Total Belted | Usage Rate | County | Area | Population Category | Day | Time | Road System | Location | City |
| 1 | 80 | 75 | 93.75% | Buena Vista | NW | E | Thurs | 4 PM | Secondary | C 49 @ Hwy 71 | City |
| 2 | 181 | 158 | 87.29% | Buena Vista | NW | Ē | Sat | 2 PM | Primary | Hwy 7 @ Hwy 71 | |
| 3 | 104 | 101 | 97.12% | Buena Vista | NW | E | Sat | 4 PM | Primary | Hwy 110 @ Hwy 7 | |
| 4 | 200 | 175 | 87.50% | Buena Vista | NW | E | Sat | 6 PM | City | Third @ Lake | Storm Lake |
| 5 6 | 103 9 | 91 9 | 88.35% 100.00% | Buena Vista Butler | NW NE | E E | Thurs W ed | 2 PM 8 AM | Primary Secondary | Hwy 7 @ Hwy 71 C 55 @ Hwy 14 | |
| 7 | 190 | 123 | 64.74% | Butler | NE | Ē | Wed | 12 PM | City | Third St. @ Main | Allison |
| 8 | 147 | 130 | 88.44% | Butler | NE | E | Sun | 12 PM | Primary | Hwy 14 @ Hwy 20 | |
| 9 | 68 | 59 | 86.76% | Butler | NE | E | Sat | 11 AM | Primary | Hwy 188 @ Hwy 3 | |
| 10 11 | 87 297 | 78 172 | 89.66% 57.91% | Butler Clarke | NE SW | E E | Sat Mon | 1 PM 12 PM | Primary Primary | Hwy 14 @ Hwy 3 | |
| 12 | 168 | 104 | 61.90% | Clarke | SW | Ē | Wed | 9 AM | City | Hwy 34 @ Hwy 69 E Washington @ Main St | Osceola |
| 13 | 202 | 163 | 80.69% | Clay | NW | Ē | Fri | 1 PM | Primary | Hwy 18 @ Hwy 71 | |
| 14 | 33 | 30 | 90.91% | Clay | NW | E | Mon | 5 PM | Prim ary | Hwy 240 @ Hwy 71 | |
| 15 | 119 | 86 | 72.27% | Clay | NW | E | Mon | 7 AM | City | 4th @ Grand | Spencer |
| 16 17 | 25 341 | 19 233 | 76.00% 68.33% | Clay Clay | NW NW | E E | Fri Fri | 11 AM 3 PM | Primary City | Hwy 10 @ Hwy 71 Grand @ 18th | Spencer |
| 18 | 18 | 12 | 66.67% | Clay | NW | Ē | Thurs | 10 AM | Secondary | N 14 @ Hwy 18 | Opencer |
| 19 | 34 | 23 | 67.65% | Clay | NW | E | Mon | 9 AM | Secondary | B 53 @ Hwy 71 | |
| 20 | 176 | 136 | 77.27% | Dallas | SW | Α | Fri | 12 PM | Primary | Hwy 141 @ Hwy 210 | |
| 21 | 249 | 217 | 87.15% | Dallas | SW | A | Thurs | 9 AM | Interstate | I-80 Exit #110 | \M - I |
| 22 23 | 47 55 | 38 33 | 80.85% 60.00% | Decatur Decatur | SW SW | E E | Thurs | 5 PM 3 PM | Primary Secondary | Hwy 266 @ Hwy 69 J 66 @ Hwy 69 | W eldon Davis City |
| 24 | 437 | 365 | 83.52% | Decatur | SW | Ē | Thurs | 1 PM | Interstate | I-35 Exit #12 | Davis City |
| 25 | 99 | 70 | 70.71% | Decatur | SW | Ē | Wed | 7 AM | Primary | W est Jct. Hwy 69 @ Hwy 2 | Leon |
| 26 | 286 | 258 | 90.21% | Decatur | SW | E | Mon | 4 PM | Interstate | I-35 Exit #22 | |
| 27 | 37 | 30 | 81.08% | Decatur | SW | E | Mon | 2 PM | Secondary | J 20 @ Hwy 204 | Garden Grove |
| 28 29 | 565 87 | 542 63 | 95.93% 72.41% | Franklin Franklin | NE NE | E E | Sun Tues | 2 PM 7 AM | Interstate City | I-35 Exit #165 1st @ 1st Ave | Hampton |
| 30 | 14 | 11 | 78.57% | Franklin | NE | Ē | Tues | 9 AM | Primary | Hwy 107 @ Hwy 3 | Hampton |
| 31 | 21 | 19 | 90.48% | Franklin | NE | Ē | Tues | 11 AM | Secondary | C 25 @ Hwy 65 | |
| 32 | 182 | 164 | 90.11% | Franklin | NE | E | Wed | 10 AM | Prim ary . | Hwy 3 @ Hwy 65 | |
| 33 | 420 | 408 | 97.14% | Franklin | NE | E | Sun | 10 AM | Interstate | I-35 Exit #170 | |
| 34 35 | 118 187 | 92 159 | 77.97% 85.03% | Keokuk Linn | SE NE | E B | Tues Sat | 5 PM 10 AM | Primary City | Hwy 149 @ Hwy 23 First Ave @ 29th | Cedar Rapids |
| 36 | 458 | 378 | 82.53% | Linn | NE | В | Sat | 6 PM | Interstate | I-380 @ Mile Marker 5 | Cedal Kapids |
| 37 | 149 | 128 | 85.91% | Linn | NE | В | Wed | 4 PM | City | 8th Ave @ 2nd | Cedar Rapids |
| 38 | 117 | 105 | 89.74% | Linn | NE | В | Wed | 2 PM | Secondary | E 34 @ Hwy 13 | |
| 39 | 95 | 78 | 82.11% | Linn | NE | В | Wed | 12 PM | Primary | Hwy 1 @ Hwy 30 | |
| 40 41 | 54 211 | 41 189 | 75.93% 89.57% | Linn Linn | NE NE | B B | Sun Sun | 11 AM 9 AM | Secondary | E 70 @ Hwy 151 | |
| 42 | 74 | 64 | 86.49% | Linn | NE | В | Sun | 7 AM | Interstate Primary | I-380 @ Mile Marker 13 Hwy 30 @ Hwy 1 | |
| 43 | 215 | 188 | 87.44% | Linn | NE | В | Sat | 8 AM | Primary | Hwy 13 @ Hwy 151 | |
| 44 | 67 | 40 | 59.70% | Louisa | SE | E | Sat | 6 PM | City | South 4th | W apello |
| 45 | 120 | 91 | 75.83% | Louisa | SE | E | Fri | 3 PM | Primary | Hwy 92 @ Hwy 61 | |
| 46 47 | 27 390 | 11 298 | 40.74% 76.41% | Louisa Polk | SE SW | E A | Sat Thurs | 10 AM 9 AM | Secondary City | X 43 @ Hwy 92 7th @ Grand | Des Moines |
| 48 | 179 | 118 | 65.92% | Polk | SW | Ä | Wed | 5 PM | City | Aurora @ Beaver | Des Moines |
| 49 | 709 | 504 | 71.09% | Polk | SW | A | Thurs | 6 PM | City | Meredith @ Merle Hay | Des Moines |
| 50 | 268 | 180 | 67.16% | Polk | SW | Α | Thurs | 7 AM | City | Indianola Ave @ SE 8th | Des Moines |
| 51 | 204 | 156 | 76.47% | Polk | SW | A | Fri | 2 PM | Primary | Hwy 160 Exit #92 | Ankeny |
| 52 53 | 335 580 | 281 486 | 83.88% 83.79% | Polk Polk | SW SW | A A | Mon Thurs | 11 AM 5 PM | Interstate Interstate | I-80 Exit #143 I-35 Exit #92 | |
| 54 | 337 | 304 | 90.21% | Polk | SW | Ä | Mon | 9 AM | Interstate | I-35 Rest Area | |
| 55 | 59 | 45 | 76.27% | Polk | SW | A | Wed | 7 AM | Primary | Hwy 46 @ Hwy 5 | |
| 56 | 244 | 170 | 69.67% | Pottawattamie | SW | С | Mon | 8 AM | City | 9th Ave. @ S 16th | Council Bluffs |
| 57 | 52 | 41 | 78.85% | Pottawattamie | SW SW | С | Fri | 6 PM | Primary | Hwy 59 @ Hwy 83 | |
| 58 59 | 316 466 | 225 330 | 71.20% 70.82% | Pottawattamie Pottawattamie | SW | C C | Mon Mon | 6 PM 10 AM | Interstate Interstate | I-29 Exit #47 I-80 Rest Area | |
| 60 | 73 | 42 | 57.53% | Pottawattamie | SW | Č | Fri | 12 PM | Secondary | M 16 @ Hwy 92 | |
| 61 | 119 | 90 | 75.63% | Pottawattamie | SW | С | Fri | 2 PM | Secondary | L 55 @ Hwy 6 | |
| 62 | 274 | 174 | 63.50% | Pottawattamie | SW | C | Fri | 4 PM | City | Ave A @ 25th | Council Bluffs |
| 63 | 128 | 96 | 75.00% | Pottawattamie | SW | С | Sun | 5 PM | Primary | Hwy 6 @ Hwy 191 | |
| 64 65 | 108 | 33 72 | 70.21% 66.67% | Pottawattamie | SW SW | C C | Sun Sun | 7 AM 9 AM | Primary Primary | Hwy 83 @ Hwy 191 Hwy 59 @ Hwy 92 | |
| 66 | 175 | 122 | 69.71% | Pottawattamie | SW | Č | Fri | 2 PM | Primary | Hwy 6 @ Hwy 59 | |
| 67 | 498 | 377 | 75.70% | Pottawattamie | SW | С | Fri | 4 PM | Interstate | I-80 Exit #40 | |
| 68 | 623 | 573 | 91.97% | Scott | SE | В | Sat | 1 PM | Secondary | Y 48 @ Hwy 61 | |
| 69 70 | 41 196 | 32 156 | 78.05% 79.59% | Scott Scott | SE SE | B B | Tues Fri | 1 PM 6 PM | Primary Primary | Hwy 61 @ Long Grove Exit Hwy 61 @ Hwy 22 | |
| 71 | 470 | 378 | 80.43% | Scott | SE | В | Fri | 8 AM | Primary | Hwy 61 @ F 55 Exit | |
| 72 | 261 | 205 | 78.54% | Scott | SE | В | Tues | 9 AM | City | Kimberly @ Harrison | Davenport |
| 73 | 354 | 264 | 74.58% | Scott | SE | В | Fri | 10 AM | City | Locust @ Brady | Davenport |
| 74 | 459 | 393 | 85.62% | Scott | SE | В | Sat | 11 AM | Interstate | I-80 @ Exit #284 (Y40) | |
| 75 76 | 202 86 | 158 65 | 78.22% 75.58% | Scott Story | SE NW | B D | Tues Fri | 11 AM 4 PM | Interstate City | I-280 @ Hwy 61 Exit 6th @ J Ave. | Nevada |
| 77 | 183 | 151 | 82.51% | Story | NW | D | Thurs | 11 AM | Primary | Hwy 30 @ Duff Exit | Ames |
| 78 | 239 | 165 | 69.04% | Story | NW | D | Thurs | 9 AM | City | 6th @ Grand | Ames |
| 79 | 161 | 130 | 80.75% | Story | NW | D | Thurs | 7 AM | Primary | Hwy 210 @ Hwy 65 | |
| 80 | 282 | 223 | 79.08% | Story | NW | D | Wed | 7 AM | City | Main @ Clark | Ames |
| 81 82 | 545 33 | 443 26 | 81.28% 78.79% | Story Story | NW NW | D D | W ed Mon | 3 PM 7 AM | Interstate Secondary | I-35 Rest Area E 23 @ Hwy 69 | |
| 83 | 457 | 361 | 78.99% | Story | NW | D | Thurs | 7 AM | Interstate | I-35 Exit #123 | |
| 84 | 161 | 95 | 59.01% | Story | NW | D | Wed | 3 PM | Prim ary | Hwy 133 @ Hwy 30 | |
| 85 | 189 | 147 | 77.78% | Story | NW | D | Thurs | 8 AM | Prim ary | Hwy 210 @ Hwy 69 | |
| 86 | 63 | 52 67 | 82.54% | Story | NW | D | Thurs | 10 AM | Primary | Hwy 65 @ Hwy 30 | |
| 87 88 | 101 120 | 67 72 | 66.34% 60.00% | Story W apello | NW SE | D D | W ed Sat | 3 PM 6 PM | Secondary Secondary | E 63 @ Hwy 65 V 37 (College St) @ Hwy 34 | Agency |
| 89 | 260 | 181 | 69.62% | W apello | SE | D | Sat | 2 PM | City | Church @ Richmond | Ottumwa |
| 90 | 232 | 162 | 69.83% | W apello | SE | D | Thurs | 10 AM | Prim ary | Hwy 137 @ Hwy 63 | |
| 91 | 334 | 234 | 70.06% | Wapello | SE | D | Thurs | 12 PM | Primary | East Jct. Hwy 34 @ Hwy 63 | |
| 92 | 64 | 45 | 70.31% | W apello | SE | D D | Mon | 8 AM | Secondary | T 61 @ Hwy 34 | Blakesburg |
| 93 94 | 342 128 | 237 91 | 69.30% 71.09% | W apello W apello | SE SE | D | Thurs Sat | 8 AM 4 PM | City Primary | W apello St @ Albia Rd Hwy 16 @ Hwy 34 | Ottumwa |
| 95 | 280 | 230 | 82.14% | Warren | SW | A | Wed | 5 PM | Primary | Hwy 28 @ Hwy 92 | Martensdale |
| 96 | 62 | 46 | 74.19% | W arren | SW | Α | Fri | 7 AM | Secondary | R 57 @ Hwy 92 | |
| 97 | 123 | 89 | 72.36% | Washington | SE | E | Tues | 1 PM | Primary | Hwy 218 @ Hwy 92 | |
| 98 99 | 121 28 | 90 15 | 74.38% 53.57% | W ashington W ashington | SE SE | E E | Tues Sat | 3 PM 8 AM | Primary Secondary | Hwy 1 @ Hwy 92 G6W @ Hwy 92 | |
| 100 | 55 | 22 | 40.00% | W ashington | SE | Ē | Fri | 1 PM | City | East 7th @ North 4th | Washington |
| | | | | 5 | | | | | - | | . |

Chart 18
Site Selection by County

| Site Sei | | | | | | |
|-------------|------------|------------------------|-------|-----------------------------|--|--|
| COUNTY | POPULATION | POPULATION CATEGORY | AREA | NUMBER OF SITES SELECTED | | |
| Adair | 8,409 | E | SW | | | |
| Adams | 4,866 | Е | SW | | | |
| Allamakee | 13,855 | Е | NE | | | |
| Appanoose | 13,743 | Е | SE | | | |
| Audubon | 7,334 | E | SW | | | |
| Benton | 22,429 | Е | NE | | | |
| Black Hawk | 123,798 | В | NE | | | |
| Boone | 25,186 | D | NW | | | |
| Bremer | 22,813 | В | NE | | | |
| Buchanan | 20,844 | E | NE | | | |
| Buena Vista | 19,965 | E | NW | 5 | | |
| Butler | 15,731 | E | NE | 5 | | |
| Calhoun | 11,508 | Ē | NW | | | |
| Carroll | 21,423 | E | NE | | | |
| Cass | 15,128 | Ē | SW | | | |
| Cedar | 17,381 | E | SE | | | |
| Cerro Gordo | 46,733 | D | NE NE | | | |
| Cherokee | 14,098 | E | NW | | | |
| Chickasaw | 13,295 | E | NE | | | |
| Clarke | 8,287 | E | SW | 2 | | |
| Clay | 17,585 | E | NW | 7 | | |
| | | E | NE | ' | | |
| Clayton | 19,054 | D D | SE | | | |
| Crawford | 51,040 | | | | | |
| | 16,775 | E | NW | 2 | | |
| Dallas | 29,755 | A | SW | 2 | | |
| Davis | 8,312 | E | SE | | | |
| Decatur | 8,338 | E | SW | 6 | | |
| Delaware | 18,035 | E | NE | | | |
| Des Moines | 42,614 | D | SE | | | |
| Dickinson | 14,909 | E | NW | | | |
| Dubuque | 86,403 | С | NE | | | |
| Emmet | 11,569 | Е | NW | | | |
| Fayette | 21,843 | D | NE | | | |
| Floyd | 17,058 | Е | NE | | | |
| Franklin | 11,364 | Е | NE | 6 | | |
| Fremont | 8,226 | Е | SW | | | |
| Greene | 10,045 | Е | NW | | | |
| Grundy | 12,029 | E | NE | | | |
| Guthrie | 10,935 | Е | NW | | | |
| Hamilton | 16,071 | Е | NW | | | |
| Hancock | 12,638 | E | NW | | | |
| Hardin | 19,094 | Е | NE | | | |
| Harrison | 14,730 | Е | SW | | | |
| Henry | 19,226 | Е | SE | | | |
| Howard | 9,809 | Е | NE | | | |
| Humboldt | 10,756 | Е | NW | | | |
| Ida | 8,365 | Е | NW | | | |
| Iowa | 14,630 | E | SE | | | |
| Jackson | 19,950 | E | NE | | | |
| Jasper | 34,795 | D | SE | | | |

| | | POPULATION | | NUMBER OF SITES |
|---------------|------------------|------------|----------|-----------------|
| COUNTY | POPULATION | CATEGORY | AREA | SELECTED |
| Jefferson | 16,310 | E | SE | |
| Johnson | 96,119 | С | SE | |
| Jones | 19,444 | Е | SE | |
| Keokuk | 11,624 | E | SE | 1 |
| Kossuth | 18,591 | E | NW | |
| Lee | 38,687 | D | SE | |
| Linn | 168,767 | В | NE | 9 |
| Louisa | 11,592 | E | SE | 3 |
| Lucas | 9,070 | Е | SE | |
| Lyon | 11,952 | E | NW | |
| Madison | 12,483 | E | SW | |
| Mahaska | 21,522 | Е | SE | |
| Marion | 30,001 | D | SE | |
| Marshall | 38,276 | D | NE | |
| Mills | 13,202 | E | SW | |
| Mitchell | 10,928 | E | NE NE | † † |
| Monona | 10,034 | E | NW | † † |
| Monroe | 8,114 | Ē | SE | |
| Montgomery | 12.076 | Ē | SW | |
| Muscatine | 39,907 | E | SE | |
| O'Brien | 15,444 | E | NW | |
| Osceola | 7,267 | E | NW | |
| Page | 16,870 | E | SW | + |
| Palo Alto | 10,669 | E | NW | |
| Plymouth | 23,388 | E | NW | |
| Pocahontas | 9,525 | E | NW | |
| Polk | 327,140 | A | SW | 9 |
| Pottawattamie | 82,628 | C | SW | 12 |
| Poweshiek | 19,033 | E | SE | 1Z |
| Ringgold | 5,420 | E | SW | + |
| Sac | 12,324 | E | NW | |
| Scott | | В | | 8 |
| Shelby | 150,979 | E E | SE SW | 8 |
| Sioux | 13,230 | D D | NW | |
| Story | 29,903 74,252 | D | NW | 12 |
| | | E | NE NE | 12 |
| Tama | 17,419 | E | | |
| Taylor | 7,114 | E | SW | |
| Union | 12,750 | | SW | |
| Van Buren | 7,676 | E | SE | + - |
| Wapello | 35,687 | D | SE | 7 |
| Warren | 36,033 | A | SW | 2 |
| Washington | 19,612 | E | SE | 4 |
| Wayne | 7,067 | E | SE | |
| Webster | 40,342 | D | NW | |
| Winnebago | 12,122 | E | NW | ļ |
| Winneshiek | 20,847 | E | NE | |
| Woodbury | 98,276 | С | NW | |
| Worth | 7,991 | E | NE | |
| Wright | 14,269 | E | NW | |
| Totals | 2,776,755 | N/A | N/A | 100 |

 Jasper
 34,795
 D
 SE
 Totals

 NOTE: Population strata determined using 1980 Census data in the original 1986 Seat Belt Usage Survey.

Chart 19
Site Selection by Area of State

| Area of State | Northeast | Southeast | Northwest | Southwest | Totals | | |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|--|--|
| Number of Selected Sites | 20 | 23 | 24 | 33 | 100 | | |
| Number of Possible Counties | 25 | 25 | 29 | 20 | 99 | | |
| Number of Selected Counties | 3 | 5 | 3 | 6 | 17 | | |
| Percentage of Counties Selected | 12.00% | 16.00% | 10.34% | 30.00% | 17.17% | | |
| Total Population in Area | 799,788 | 744,185 | 588,763 | 644,019 | 2,776,755 | | |
| Percentage of Total State Population | 28.80% | 26.80% | 21.20% | 23.19% | 100.00% | | |

Chart 20
Site Selection by Population Categories

| Population Category | A - Over 200,000 | B - 150,000 to 200,000 | C - 75,000 to 150,000 | | E - Under 25,000 | Totals |
|--------------------------------------|---------------------|------------------------------|--------------------------|---------|---------------------|-----------|
| Number of Selected Sites | 13 | 17 | 12 | 19 | 39 | 100 |
| Number of Possible Counties | 3 | 4 | 4 | 13 | 75 | 99 |
| Number of Selected Counties | 3 | 2 | 1 | 2 | 9 | 17 |
| Percentage of Counties Selected | 100.00% | 100.00% | 20.00% | 26.67% | 10.53% | 17.17% |
| Total Population in Category | 327,140 | 319,746 | 487,224 | 593,211 | 1,049,434 | 2,776,755 |
| Percentage of Total State Population | 11.78% | 11.52% | 17.55% | 21.36% | 37.79% | 100.00% |

NOTE: Population numbers provided by the 1990 Census, U.S. Department of Commerce.

Chart 21
Statewide Vehicle Miles Traveled

| October 1998 | Municipal | Interstate | Primary | Secondary | Totals |
|--------------|-----------|------------|---------|-----------|---------|
| Miles | 587 | 561 | 965 | 413 | 2,526 |
| Percentage | 23.24% | 22.21% | 38.20% | 16.35% | 100.00% |

| October 1999 | Municipal | Interstate | Primary | Secondary | Totals |
|--------------|-----------|------------|---------|-----------|---------|
| Miles | 573 | 562 | 981 | 435 | 2,551 |
| Percentage | 22.46% | 22.03% | 38.46% | 17.05% | 100.00% |

NOTE: Vehicle miles traveled numbers provided by the Office of Transportation Data, lowa Department of Transportation.