Memo
Office of Technical Support
395 John Ireland Boulevard
St. Paul, Minnesota 55155

September 29, 1999
$\begin{array}{ll}\text { To: } & \text { Michael L. Robinson } \\ & \text { District Engineer, D-1 Duluth } \\ \text { From: } & \begin{array}{l}\text { Carol R. Braun } \\ \text { Safety Rest Area Manager } \\ \text { Office of Technical Support, Site Development Unit, MS } 686\end{array}\end{array}$
Subject: 1996 Safety Rest Area Usage Survey Summary Report For Kettle River Safety Rest Area, I-35, M.P. 198 and
General Andrews Safety Rest Area, I-35, M.P. 208

Enclosed are copies of the 1996 Rest Area Usage Survey Reports for the Kettle River and General Andrews safety rest areas. This is the first distribution of these reports. Data contained in these reports was used to project 20 year capacity needs for the recently constructed rest area buildings at these sites. Although preparation of the reports was long overdue, the information in these reports has been and will continue to be useful in projecting parking capacity and service needs for future investment planning and proposed additional rehabilitation of these sites.

The objective of the motorist survey is to document percent of vehicles stopping at the rest area and to collect user data during an average summer travel weekend. This data is used to verify design criteria used in the planning, location and design of rest areas statewide, in addition usage data is evaluated for site specific facility rehabilitation and redesign. To provide information on motorist use of rest area in this corridor, both of the above noted rest area surveys were conducted simultaneously. The five day user surveys were conducted from August 8 to August 12, 1996. The methods for conducting the surveys, copies of the survey forms and analysis of data collected is included in the enclosed reports.

The Office of Technical Support, Site Development Unit will continue to conduct user surveys at selected interstate and trunk highway safety rest areas, especially at new facilities and sites marked for rehabilitation, to measure overall user patterns and needs and to verify and update statewide design criteria. If you have any questions or comments concerning the methodology or results of the surveys or would like additional copies of the reports, please contact me.

Attachments

Michael L. Robinson
September 29, 1999
Page 2
cc: Commissioner E. Tinklenberg, MS 100
D. Weiszhaar, MS 110
P. Hughes, MS 120
D. Ekern, MS 120
J. Swanson, MS 140
R. Halvorson, MS 140
R. Kauzlaric, ADE, D-1
M. Tardy, AME, D-1A
J. Bray, PAC, D-1A
R. Dwyer, D-1A
C. Erickson, D-1A
G. Peterson, D-1A
J. Kujala, D-1B
D. Gerdes, MS 675
T. Quinn, MS 686
J. Reierson, MS 686

Site Development Unit Staff
D. Haskett, DTED, Office of Tourism
D. Knutson, Green View, Inc.
C. Hamilton, Services for the Blind
P. Jensen, MS 715
D. Morisette, MS 690
L. Brady, Market Research, MS 150

Mn/DOT Library
SDU File
(Attachment sent to cc List)

# Minnesota Department of Transportation 

General Andrews Safety Rest Area I-35 Southbound 1996 User Survey

Prepared by the Office of Technical Support
Site Development Unit

## Minnesota Department of Transportation

General Andrews Safety Rest Area I-35 Southbound 1996 User Survey

## State of Minnesota

Department of Transportation
Office of Technical Support - Site Development Unit
Transportation Building, Mail Stop 686
395 John Ireland Boulevard
St. Paul, Minnesota 55155

## General Andrews Safety Rest Area - 1996 Usage Survey

The Minnesota Department of Transportation (Mn/DOT), Office of Technical Support - Site Development Unit, conducted a rest area user survey at the General Andrews Safety Rest Area, serving southbound travelers on I-35, located 2 miles northeast of Willow River, Minnesota, from August 8 through 12, 1996.

The objective of rest area user surveys is to collect user data during an average summer travel weekend to verify or modify statewide design criteria developed for safety rest area planning, location and design. Pertinent information collected includes percent of vehicles stopping, traffic classification, number of persons per vehicle, and motorist use of facilities.

During the survey period, $\mathrm{Mn} / \mathrm{DOT}$ staff collected information about every vehicle entering the rest area. As each vehicle approached, the information boxed at the top of each user survey, (day of week, licensing state, vehicle type and time-in), was recorded. Each vehicle was stopped on the entrance ramp before entering the parking areas and building. The driver of each vehicle was handed a user survey form and asked to fill it out during their visit at the rest area facility. (See copy of user survey, page 5.) The surveys were collected by $\mathrm{Mn} / \mathrm{DOT}$ staff waiting on the exit ramp, who then recorded the time-out.

During the five day survey period, from 9:00 am to $6: 00 \mathrm{pm}, 3,208$ vehicles and 7,859 people used the rest area facilities. Of all the northbound I- 35 traffic passing the site, during the survey hours $9.4 \%$ stopped and used the rest area. However, $14.4 \%$ of all recreational vehicles passing the rest area stopped. A higher than average percentage of cars with recreational trailers $(23.9 \%)$, commercial trucks ( $14.8 \%$ ), trucks with recreational trailers ( $13.5 \%$ ) and semi's ( $11.6 \%$ ) also stopped. The calculated design value for percent of traffic stopping at interstate rest areas in a rural highway section is $12 \%$.

Statewide the desirable spacing between safety rest areas is 50 miles. This spacing is based on the distance motorists are willing to drive after making a decision to stop for various service needs. It is known from the average distance motorist drive between stops that most motorist do not stop at consecutive rest area along a route. General Andrews rest area is
located 42 miles south of the Thompson Hill Travel Information Center/Safety Rest Area and 77 miles north of the Forest Lake Rest Area. Over two-thirds of the motorists stopping at this facility found the distance to the next rest area ( 80 mile to the Forest Lake rest area) was about right, one-in-four ( $27 \%$ ) stated it was too far and less than $2 \%$ said it was too close.

The average length of stay for all vehicle types ${ }^{1}$ was 14.2 minutes, however the oversized and commercial vehicle stayed an average of 17.3 minutes at the rest area. Motorist averaged 1.45 hours since their last stop and 1.78 hours until their next stop. The averages for the driving times identified by respondents for their last and next stops corresponds closely with stopping points in the Duluth/ North Shore Drive and Metro areas.

Users of the rest area were made up mostly of people who were either starting (88.1\%) or ending ( $87.8 \%$ ) their trip today in the state of Minnesota. Overall, Midwest locations dominated trip starting and trip ending points. Approximately $35 \%$ of the users responded they were on a multi-day trip and of those $25-30 \%$ began or will end there trip in another state. A total of $18.2 \%$ of the vehicles entering the site were licensed out-of-state. Approximately $80 \%$ of all non-commercial vehicles were traveling for "pleasure travel" or vacation.

When asked to "Select your main reason(s) for stopping at this rest area" over $88 \%$ of the respondents stated it was to use the restrooms. Motorist safety needs were the second highest group of reasons for stopping ( $39.0 \%$ ). Safety needs include: rest/relax $27.4 \%$, switch drivers $9.4 \%$, check vehicle $8.7 \%$ and sleep $2.1 \%$ (due to multiple responses to this question, totals equal more than $100 \%$, see question $\# 9$ for breakdown).

The percent of oversized and commercial vehicles stopping at the rest area for safety needs was substantially higher than for standard sized vehicles, $47.5 \%$ and $54.1 \%$ respectively. A significant number of Commercial vehicle drivers responded that they stopped to check their vehicle (34.9\%) and to rest/relax ( $27.4 \%$ ). In addition, the second single highest reason for commercial drivers to stop at this rest area was to use the telephone $41.8 \%$.

Motorists in standard and oversized vehicles used the restrooms, waste and recycling receptacles, vending machines and picnic tables most. Of all commercial vehicle drivers $43.1 \%$ used the public telephone.

The State of Minnesota's safety rest areas remain popular with travelers. At this rest area, $61.6 \%$ of all motorists prefer to use safety rest areas compared to $3.8 \%$ who prefer private

[^0]commercial facilities. Although Minnesota does not have any combined safety rest areas/private commercial facilities, $32.4 \%$ of the motorists indicated a preference to use such facilities if available.

If private/commercial development were permitted in Minnesota's safety rest areas $28.9 \%$ of the respondents prefer vending machines, and $40.9 \%$ prefer no private development. Commercial vehicle users were more likely than users of other vehicle types to prefer restaurants (both fast food/take out \& sit down) if private/commercial development were permitted at Minnesota's safety rest areas.

When asked, "If you were fatigued, needed to change drivers or experiencing potential mechanical problems, where would you have stopped?", $55.7 \%$ of all respondents identified rest areas as their preferred safety stop. Responses were similar across vehicle types. The second highest location respondents identified for stopping was the next town ( $15.7 \%$ ). Commercial vehicle drivers were more likely to stop at a commercial facility than were drivers of other vehicle types.

Three types of highway operation activities were explored. Responses across all vehicle types were quite similar to the three highway operations. Each of: Road Signs and Traffic Signals, Rest Areas, and Emergency Road Condition Information were ranked as "very important".

The majority ( $95.5 \%$ ) of the users said they feel safe using Minnesota's interstate rest areas. Less than $2 \%$ stated they do not feel safe. Motorists feel less safe using Minnesota rest areas after dark with $12 \%$ stating they do not feel safe after dark and $74.4 \%$ stated they do feel safe after dark.

The data collected from this user survey is stored in a computer data file which allows comparison of a wide range of information and permits further opportunity for sorting data and analyzing specific user information.

For more information about this survey, please call the Mn/DOT Site Development Unit.


Carol R. Braun, R.L.A.
Site Development Unit
Mn/DOT, Safety Rest Area Program Manager
(651) 296-1648
e-mail: carol.braun@dot.state.mn.us

This document is available in alternative formats to individuals with disabilities by calling (651)296-1648 or through the Minnesota Relay Service at 1-800-627-3529.

Location of the General Andrews Safety Rest Area.


The General Andrews Safety Rest Area is located on I-35 in Pine County approximately 2 miles northeast of Willow River. The facility is located in a mix of pine stands and open fields within General Andrews State Forest. This rest area is approximately 45 miles south of Duluth and 125 miles north of St. Paul.

The driver of each vehicle was given one copy of the following survey. (The $81 / 22^{\prime \prime}$ X 14 " survey has been reduced to fit this page.)

general andrews safety rest area - 135
USER SURVEY, AUGUST 8 - 12, 1996

| Day of the week: Thu. Fri. Sat. Sun. Mon. | Time in: | Lic. State: MN $\overline{\text { (specify other) }}$ |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Vehicle type: 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 |

Dear Motorist: The Mirmesota Department of Transportation, (Mn/DOT), is atternpting to determine how Salety Rest Areas and Travel Information Centers along highways are utilized and what facilities should be provided to satisly your needs. Only you can supply the information we need to plan future facilities. Flease answer the following questions:

1. Number of people in your vehicle? senior adults fover 59$)$ adults (16-59) children (under 16)
Male Male
Female
2. How long have you traveled since your last stop?
3. When do you think your next stop will be? $\qquad$
4. What is your reason for traveling today? (Write letter here)
A. Business Travel
C. Pleasure travel (vacation, recreation, etc.)
B. Commercial Driver (truck, bus, etc.) D. Other personal travel lother than pleasure travel)
5. Where did your tríp start today?

$$
\overline{\text { teityrastn }}
$$

6. If this is a multi-day trip, where did your overall trip begin? $\qquad$
7. Where will your trip end today? $\qquad$
8. If this is a multi-day trip, where will your overall trip end? $\qquad$
9. Please select your main reason(s) for stopping at this rest area. (check all that apply)

10. Which of the following facilities were used by your party? (check all that apply) $\begin{array}{lll}\square & \text { restroom (o) } & \square \text { map displays }(0) \\ \square & \text { picnic table (b) } & \square \text { vending (o) } \\ \square & \text { other (please specify) }\end{array}$ $\qquad$ _ ${ }^{(6)}$
$\square$ telephone $(0) \quad 0$ recycle receptacles $n$
11. When traveling, which type of facility do you prefer to use? (pick only one, write letter here): $\qquad$
A. safety rest area C. private/commercial facilities
B. public park
D. combined safety rest areas \& private/commercial facilities
12. Which of the following private commercial business types would you prefer at Minnesota's rest areas? (check all that apply)
none (s)
none (o) $\square$ restaurant (fast fooditakeout) (o)
. If you were fatigued, needed to change dfivers or experiencing potential mechanical problems, where
would you stop? (pick only one, write letter here):
A. interchange C. commercial facility
E. continue driving
G. next town
B. highway shoulder
D. rest area
F. other (please specify)
$\qquad$
13. Please rate, using a range of 1 to 10 , the importance of each of the following highway operation activities. 1 = not important to you of all 5 m medium importance 10 - extremsly importontRoad surface li.e., pavement construction, show and ice removal, smooth pevement)
 Roadside (i.e., landscaping, mowing, trash removal, eliminating weeds)
$\qquad$ Roadside $\overline{\text { i.e., landscaping, mowing, trash removal, eliminating weeds) }}$ Motorist Services lie., road signs, rest areas, emergency road condition information)
14. Flease rate, using a range of 1 to 10 , the importance of each of the following motorist services.
$\qquad$ $1=$ not important to you at eft $\qquad$ 10 - *xtremely impotern Road signs/tralfic signals $\qquad$ rest areas $\qquad$ emergency road condition information
15. Do you usually, feel safe using Minnesota rest areas on fnterstate highways? Yes $\square$ No $\square$ No Opinion
16. Do you feel safe using Minnesota rest areas after dark? O Yes No Opinion
17. The next rest area is located at Forest Lake ( 80 miles), is this distance:(pick only one, write letter here): C. About right

Additional Comments:

Please return survey to the staff at the exit ramp. Thank you. (Please use other side for addtional comments)

## SUMMARY OF COLLECTED DATA

Date of survey: August 8 through 12, 1996
Time of survey: 9:00 a.m. to 6:00 p.m.
Weather on site: Partly cloudy to sunny
Total I-35 mainline vehicles traveling southbound: 34,299
I-35 mainline vehicles traveling southbound passing safety rest area without entering: 31,091
Vehicles traveling southbound entering safety rest area: 3,208
Percent of I-35 mainline vehicles stopping at safety rest area: 9.35\%
Percent of vehicles stopping at safety rest area that are from out-of-state: $18.20 \%$
Percent of vehicles stopping at safety rest area that are from in-state: $81.80 \%$
Age distribution of people using the safety rest area:

| Age | Male | Percent | Female | Percent | Total | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Over 60 | 926 | 11.78\% | 696 | 8.86\% | 1,622 | 20.63\% |
| 16 to 59 | 2,609 | 33.20 | 2,040 | 25.96 | 4,649 | 59.16 |
| Under 16 | 908 | 11.55 | 680 | 8.65 | 1.588 | $\underline{20.21}$ |
|  | 4,443 | 56.53\% | 3,416 | 43.47\% | 7,859 | 100.00\% |

Average number of people per vehicle: 2.59
Average length of stay in safety rest area: $\quad 14.18$ minutes (All Vehicles)
13.46 minutes (Standard Vehicles)
17.34 minutes (Oversize \& Commercial Vehicles)

Number of vehicles 9:00 am to 6:00 pm

|  | Vehicles <br> Entering | Vehicles <br> Not Entering | One Way <br> Traffic | Average <br> Percent <br> Stopping at |  |
| :--- | :--- | :--- | :--- | :--- | :---: |
| $\underline{\text { Date }}$ | Day | $\underline{\text { Rest Area }}$ | $\underline{\text { Rest Area }}$ | $\underline{\text { Totals }}$ | $\underline{\text { Rest Area }}$ |

## Hourly volume of vehicles entering Safety Rest Area

$\left.\begin{array}{ccccccccc}\text { Time } & \text { Thursday } & \text { Friday } & & \text { Saturday } & & \text { Sunday } & & \text { Monday }\end{array}\right)$

Note: Total does not equal 3,208 'Vehicles Entering Safety Rest Area' due to recording errors on 'Time In' for 10 vehicles.

## Type of vehicle entering Safety Rest Area

|  | Vehicle Total | Average |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Length of <br> Stay -- In <br> Minutes | Number of People | (A) | (B) |
| Standard Vehicles |  |  |  |  |  |
| Cars | 1,545 | 13.55 | 3,577 | 48.45\% | 8.55\% |
| Pick-up or van | 1,022 | 13.05 | 2,672 | 32.05 | 8.87 |
| Other - Motorcycle | 36 | $\underline{21.40}$ | 59 | 1.13 | 11.84 |
| Standard (average) |  | (13.46) |  |  |  |
| Oversize Vehicles |  |  |  |  |  |
| Pick-up - van w/ rec. trailer | 246 | 15.63 | 737 | 7.71 | 13.48 |
| Recreational vehicles | 76 | 16.97 | 195 | 2.38 | 14.39 |
| Pick-up - van w/ other trailer | 41 | 12.24 | 142 | 1.29 | 10.25 |
| Car w/ recreational trailer | 55 | 13.44 | 137 | 1.72 | 23.91 |
| Car w/ other trailer | 8 | 8.83 | 17 | 0.25 | 10.13 |
| Commercial Vehicles |  |  |  |  |  |
| Semi-tractor trailer trucks | 122 | 25.48 | 200 | 3.83 | 11.62 |
| Commercial trucks | 35 | 15.71 | 55 | 1.10 | 14.77 |
| Buses | 3 | 19.00 | 6 | $\underline{0.09}$ | 4.05 |
| Oversize \& Commercial (average) |  | (17.34) |  |  |  |
| Total | 3,189 | 14.18 | 7,797 | 100.00\% |  |

(A) Percentage of total number of vehicles using the safety rest area.
(B) Percentage of vehicles that stopped in the safety rest area, out of the total number of mainline vehicles of the same type both entering and passing the safety rest area.
Note: Total does not equal 3,208 due to recording error for 19 vehicles.

## General Andrews Safety Rest Area

Page 8

## SURVEY QUESTIONS

Note: The total number of responses for subgroups does not always match the total number of vehicles due to omissions in recording the vehicle type.

Question 1: Number of people in your vehicle (by gender)?

| Age | Male | Percent | Female | Percent | All People Entering Safety Rest Area |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Total | Percent |
| Over 60 | 926 | 11.78\% | 696 | 8.86\% | 1,622 | 20.63\% |
| 16 to 59 | 2,609 | 33.20 | 2,040 | 25.96 | 4,649 | 59.16 |
| Under 16 | 908 | 11.55 | 680 | 8.65 | 1.588 | $\underline{20.21}$ |
|  | 4,443 | 56.53\% | 3,416 | 43.47\% | 7,859 | 100.00\% |

Average number of people per vehicle: 2.59
\% Responding: 94.54\%

Question 2: How long have your traveled since your last stop?

|  | All Vehicles | Standard <br> Vehicles | Oversize Vehicles | Commercial Vehicles |
| :---: | :---: | :---: | :---: | :---: |
| Miles |  |  |  |  |
| Average | 82.09 | 79.74 | 95.86 | 82.04 |
| Median | 65.65 | 60.86 | 80.70 | 61.00 |
| \% Responding: | 27.77\% | 27.47\% | 28.40\% | 32.50\% |
| Minutes |  |  |  |  |
| Average | 85.54 | 83.83 | 97.26 | 80.80 |
| Median | 60.97 | 60.93 | 90.35 | 60.74 |
| \% Responding: | 56.92\% | 56.28\% | 60.80\% | 56.25\% |

Question 3: When do you think your next stop will be?

|  | All Vehicles |  | Standard <br> Vehicles | Oversize <br> Vehicles | Commercial <br> Vehicles |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Miles | 93.99 |  | 91.47 |  | 97.29 |

General Andrews Safety Rest Area
Page 9
1996 Usage Survey

## Question 4: What is your reason for traveling today?

|  | All Vehicles |  | Standard <br> Vehicles |  | Oversize Vehicles |  | Commercial Vehicles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Percent | Total | Percent | Total | Percent | Total | Percent |
| Pleasure travel | 2,189 | 77.05\% | 1,805 | 79.00\% | 364 | 91.69\% | 8 | 5.59\% |
| Other personal travel | 324 | 11.41 | 301 | 13.17 | 18 | 4.53 | 5 | 3.50 |
| Business travel | 206 | 7.25 | 176 | 7.70 | 14 | 3.53 | 15 | 10.49 |
| Comm'l driver | 122 | 4.29 | 3 | 0.13 | 1 | 0.25 | 115 | 80.42 |
| Total | 2,841 | 100.00\% | 2,285 | 100.00\% | 397 | 100.00\% | 143 | 100.00\% |
| \% Responding: |  | 8.56\% |  | $78 \%$ |  | .19\% |  | 38\% |

## Question 5: Where did your trip start today?

|  | All Vehicles |  |
| :--- | :---: | :---: |
|  | Total | $\frac{\text { Percent }}{2.519}$ |
| Midwest U.S. | $\frac{96.81 \%}{8,291}$ | 88.05 |
| Minnesota | 183 | 7.03 |
| Wisconsin | 4 | 0.15 |
| Iowa | 1 | 0.04 |
| Illinois | 1 | 0.04 |
| North Dakota | 0 | 0.00 |
| South Dakota | 39 | 1.50 |
| Other | 2 | 0.08 |
| West U.S. | 1 | 0.04 |
| Northeast U.S. | 0 | 0.00 |
| South U.S. | 2,522 | $96.93 \%$ |
| Total U.S. |  |  |
|  | 71 | 2.73 |
| Canada | 9 | $\underline{0.34}$ |
| Other | 2,602 | $100.00 \%$ |
| Total |  |  |

## Question 6: If this is a multi-day trip, where did your overall trip begin?

| All Vehicles |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Percent |  |
| Midwest U.S. | 1,251 | 90.85\% |  |
| Minnesota | 1,035 | 75.16 |  |
| Iowa | 63 | 4.58 |  |
| Wisconsin | 38 | 2.76 |  |
| Illinois | 23 | 1.67 |  |
| South Dakota | 11 | 0.80 |  |
| North Dakota | 3 | 0.22 |  |
| Other | 78 | 5.66 | (Michigan, Missouri, Ohio, Nebraska, Kansas, Indiana) |
| West U.S. | 59 | 4.28 |  |
| South U.S. | 27 | 1.96 |  |
| Northeast U.S. | 19 | 1.38 |  |
| Total U.S. | 1,356 | 98.47\% |  |
| Canada | 15 | 1.09 |  |
| Other | 6 | 0.44 |  |
| Total | 1,377 | 100.00\% |  |
| \% Responding: |  | 92\% |  |
| Question 7: Where will your trip end today? |  |  |  |


| All Vehicles |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Percent |  |
| Midwest U.S. | $\underline{2,617}$ | 99.24\% |  |
| Minnesota | 2,315 | 87.79 |  |
| Iowa | 152 | 5.76 |  |
| Wisconsin | 83 | 3.15 |  |
| South Dakota | 19 | 0.72 |  |
| Illinois | 15 | 0.57 |  |
| North Dakota | 0 | 0.00 |  |
| Other | 33 | 1.25 | (Michigan, Missouri, Ohio, Nebraska, Kansas, Indiana) |
| West U.S. | 15 | 0.57 |  |
| South U.S. | 3 | 0.11 |  |
| Northeast U.S. | 1 | 0.04 |  |
| Total U.S. | 2,636 | 99.96\% |  |
| Other | 1 | 0.04 |  |
| Total | 2,637 | 100.00\% |  |
| \% Responding: |  |  |  |

Question 8: If this is a multi-day trip, where will your overall trip end?

| All Vehicles |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Total | Percent |  |
| Midwest U.S. | 1,006 | 88.63\% |  |
| Minnesota | 789 | 69.52 |  |
| Iowa | 62 | 5.46 |  |
| Wisconsin | 35 | 3.08 |  |
| Illinois | 29 | 2.56 |  |
| South Dakota | 13 | 1.14 |  |
| North Dakota | 1 | 0.09 |  |
| Other | 77 | 6.78 | (Michigan, Missouri, Ohio, Nebraska, Kansas, Indiana) |
| West U.S. | 72 | 6.34 |  |
| South U.S. | 27 | 2.38 |  |
| Northeast U.S. | 18 | 1.59 |  |
| Total U.S. | 1,123 | 98.94\% |  |
| Canada | 6 | 0.53 |  |
| Other | 6 | 0.53 |  |
| Total | 1,135 | 100.00\% |  |
| \% Responding: |  |  |  |

Question 9: Please select your main reason(s) for stopping at this rest area. (Check all that apply.)
(Base:)

| All Vehicles | Standard <br> Vehicles | Oversize <br> Vehicles | Commercial <br> Vehicles |
| :---: | :--- | :--- | :--- |
| $(2,831)$ | $(394)$ | $(146)$ |  |


|  | Total | Percent | Total | Percent | Total | Percent | Total | Percent |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Restrooms | 2,495 | 88.13\% | 2,034 | 89.41\% | 340 | 86.29\% | 110 | 75.34\% |
| Motorist Safety |  |  |  |  |  |  |  |  |
| Value/Use (Net) | (1.105) | (39.03\%) | (831) | (36.53\%) | (187) | (47.46\%) | (79) | (54.11\%) |
| Rest/Relax | 775 | 27.38 | 611 | 26.86 | 119 | 30.20 | 40 | 27.40 |
| Switch drivers | 267 | 9.43 | 225 | 9.89 | 35 | 8.88 | 7 | 4.79 |
| Check vehicle | 246 | 8.69 | 102 | 4.48 | 88 | 22.34 | 51 | 34.93 |
| Sleep | 59 | 2.08 | 42 | 1.85 | 3 | 0.76 | 14 | 9.59 |
| Water | 249 | 8.80 | 198 | 8.70 | 33 | 8.38 | 16 | 10.96 |
| Vending | 245 | 8.65 | 199 | 8.75 | 25 | 6.35 | 20 | 13.70 |
| Eat/Picnic | 186 | 6.57 | 144 | 6.33 | 35 | 8.88 | 7 | 4.79 |
| Telephone | 159 | 5.62 | 81 | 3.56 | 14 | 3.55 | 61 | 41.78 |
| Travel information | 41 | 1.45 | 33 | 1.45 | 7 | 1.78 | 1 | 0.68 |
| Other | 238 | 8.41 | 193 | 8.48 | 33 | 8.38 | 10 | 6.85 |

[^1]Note: Adds to more than $100 \%$ due to multiple mentions.

## General Andrews Safety Rest Area

Page 12
1996 Usage Survey
Question 10: Which of the following facilities were used by your party? (Check all that apply)

| (Base:) | $\frac{\text { All Vehicles }}{(2,747)}$ |  | Standard <br> Vehicles <br> $(2,217)$ |  | Oversize Vehicles <br> (378) |  | Commercial Vehicles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |
|  | Total | Percent |  |  | Total | Percent | Total | Percent | Total | Percent |
| Restroom | 2,627 | 95.63\% | 2,134 | 96.26\% | 359 | 94.97\% | 121 | 88.32\% |
| Trash receptacles | 599 | 21.81 | 476 | 21.47 | 85 | 22.49 | 33 | 24.09 |
| Vending | 395 | 14.38 | 330 | 14.88 | 38 | 10.05 | 25 | 18.25 |
| Recycle receptacles | 245 | 8.92 | 199 | 8.98 | 37 | 9.79 | 6 | 4.38 |
| Picnic table | 238 | 8.66 | 201 | 9.07 | 29 | 7.67 | 7 | 5.11 |
| Map displays | 223 | 8.12 | 181 | 8.16 | 31 | 8.20 | 11 | 8.03 |
| Telephone | 164 | 5.97 | 83 | 3.74 | 19 | 5.03 | 59 | 43.07 |
| Other | 173 | 6.30 | 139 | 6.27 | 29 | 7.67 | 5 | 3.65 |
| \% Responding: | 85.63\% |  | 85.17\% |  | 88.73\% |  | 85.63\% |  |

Note: Adds to more than $100 \%$ due to multiple mentions.

Question 11: When traveling, which type of facility do you prefer to use? (pick only one)


Question 12: Which of the following private commercial business types would you prefer at Minnesota's rest areas? (Check all that apply.)

|  | All Vehicles <br> $(2,705)$ | Standard <br> Vehicles | Oversize <br> Vehicles | Commercial <br> Vehicles |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| (Base:) | $\underline{\text { Total }}$ |  |  |  |

Note: Adds to more than $100 \%$ due to multiple mentions.

Question 13: If you were fatigued, needed to change drivers or experiencing potential mechanical problems, where would you stop? (pick one only...however, some checked all that applied)

| (Base:) | All Vehicles |  | Standard Vehicles |  | Oversize Vehicles |  | Commercial Vehicles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(2,725)$ |  | $(2,192)$ |  |  |  | (141) |  |
|  | Total | Percent | Total | Percent | Total | Percent | Total | Percent |
| Rest area | 1,517 | 55.67\% | 1,217 | 55.52\% | 217 | 57.56\% | 73 | 51.77\% |
| Next town | 427 | 15.67 | 357 | 16.29 | 56 | 14.85 | 14 | 9.93 |
| Commercial facility | 368 | 13.50 | 289 | 13.18 | 42 | 11.14 | 34 | 24.11 |
| Safety Issues (Net) | (294) | (10.79) | (233) | (10.63) | (47) | (12.47) | (12) | (8.51) |
| Highway shoulder | 195 | 7.16 | 155 | 7.07 | 30 | 7.96 | 8 | 5.67 |
| Interchange | 80 | 2.94 | 60 | 2.74 | 16 | 4.24 | 4 | 2.84 |
| Continue driving | 19 | 0.70 | 18 | 0.82 | 1 | 0.27 | 0 | 0.00 |
| Other | 123 | 4.51 | 98 | 4.47 | 16 | 4.24 | 9 | 6.38 |
| \% Responding: |  |  |  | 4.21\% |  | .50\% |  | 13\% |

Note: Adds to more than $100 \%$ due to multiple mentions.

Question 14: Please rate, using a range of 1 to 10, the importance of each of the following highway operation activities ( $1=$ not important to you at all, $5=$ medium importance, $10=$ extremely important)

|  | All Vehicles |
| :--- | :---: |
| Road Surface |  |
| $\quad$ Mean | 9.09 |
| (Base) | $(2,678)$ |
| \% Responding: | $83.48 \%$ |
|  |  |
| Motorist Services | 8.22 |
| Mean | $(2,659)$ |
| (Base) | $82.89 \%$ |
| \% Responding: |  |
|  | 6.16 |
| Roadside | $(2,646)$ |
| (Base) | $82.48 \%$ |

Terms Defined: Road Surface (i.e., pavement construction, snow and ice removal, smooth pavement) Motorist Services (i.e., road signs, rest areas, emergency road condition information) Roadside (i.e., landscaping, mowing, trash removal; eliminating weeds)

Question 15: Please rate, using a range of 1 to 10, the importance of the following motorist services ( $1=$ not important to you at all, $5=$ medium importance, $10=$ extremely important)

## All Vehicles

Road Signs and Traffic Signals
Mean 8.72
(Base)
$(2,645)$
\% Responding:
82.45\%

## Rest Areas

| Mean | 8.08 |
| :--- | :---: |
| (Base) | $(2,658)$ |
| \% Responding: | $82.56 \%$ |


| Emergency Road Condition Information |  |
| :---: | :---: |
| Mean | 7.54 |
| (Base) | $(2,614)$ |
| \% Responding: | $81.48 \%$ |

Question 16: Do you usually feel safe using Minnesota rest areas on interstate highways?

|  | All Vehicles |  | Standard Vehicles |  | Oversize Vehicles |  | Commercial Vehicles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Percent | Total | Percent | Total | Percent | Total | Percent |
| Yes | 2,594 | 95.51\% | 2,091 | 95.83\% | 362 | 95.26\% | 127 | 91.37\% |
| No | 40 | 1.47 | 30 | 1.37 | 5 | 1.32 | 5 | 3.60 |
| No opinion | 82 | 3.02 | 61 | 2.80 | 13 | 3.42 | 7 | 5.03 |
| Total | 2,716 | 100.00\% | 2,182 | 100.00\% | 380 | 100.00\% | 139 | 100.00\% |
| \% Responding: |  | 66\% |  | 83\% |  | .20\% |  | 88\% |

Question 17: Do you feel safe using Minnesota rest areas after dark?

|  | All Vehicles |  | Standard Vehicles |  | Oversize Vehicles |  | Commercial Vehicles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Total | Percent | Total | Percent | Total | Percent | Total | Percent |
| Yes | 2,025 | 74.42\% | 1,603 | 73.33\% | 294 | 77.98\% | 117 | 81.82\% |
| No | 324 | 11.91 | 274 | 12.53 | 34 | 9.02 | 15 | 10.49 |
| No opinion | 372 | 13.67 | 309 | 14.14 | 49 | 13.00 | 11 | 7.69 |
| Total | 2,721 | 100.00\% | 2,186 | 100.00\% | 377 | 100.00\% | 143 | 100.00\% |
| \% Responding: |  | 82\% |  | 8\% |  | . $50 \%$ |  | .38\% |

Question 18: The next rest area is located at Forest Lake ( 80 miles), is this distance (pick only one):
$\left.\begin{array}{lccccccc}\text { All Vehicles }\end{array} \quad \begin{array}{c}\text { Standard } \\ \text { Vehicles }\end{array} \quad \begin{array}{c}\text { Oversize } \\ \text { Vehicles }\end{array} \quad \begin{array}{c}\text { Commercial } \\ \text { Vehicles }\end{array}\right\}$

GENERAL ANDREWS SAFETY REST AREA - 13
USER SURVEY, AUGUST 8-12, 1996

| Day of the week: Thu. Fri. Sat. Sun. Mon. | Time in: | Lic. State: MN |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| (specify other) |  |  |  |  |  |  |  |  |  |
| Vehicle type: | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 |

Dear Motorist: The Minnesota Department of Transportation, (Mn/DOT), is attempting to determine how Safety Rest Areas and Travel Information Centers along highways are utilized and what facilities should be provided to satisfy your needs. Only you can supply the information we need to plan future facilities. Please answer the following questions:

1. Number of people in your vehicle? senior adults (over 59) adults (16-59) children (under 16) Male
2. How long have you traveled since your last stop? $\qquad$ (minutes or miles)
3. When do you think your next stop will be? $\qquad$
(minutes or miles)
4. What is your reason for traveling today?
A. Business Travel
(Write letter here):
C. Pleasure travel (vacation, recreation, etc.)
B. Commercial Driver (truck, bus, etc.)
D. Other personal travel (other than pleasure travel)
5. Where did your trip start today?

> (city/state)
6. If this is a multi-day trip, where did your overall trip begin? $\qquad$
(city/state)
7. Where will your trip end today? $\qquad$
8. If this is a multi-day trip, where will your overall trip end?
(city/state)
9. Please select your main reason(s) for stopping at this rest area. (check all that apply)

| $\square$ restrooms (a) | - rest/relax (d) | $\square$ telephone (g) | $\square$ vending (j) |
| :---: | :---: | :---: | :---: |
| $\square$ eat/picnic (b) | [ water (e) | [] switch drivers (h) | $\square$ other (please specify) |
| $\square$ sleep (c) | $\square$ check vehicle (f) | [ travel information (i) |  |

10. Which of the following facilities were used by your party? (check all that apply)
$\square$ restroom (a)

- map displays (d)
$\square$ picnic table (b)
$\square$ trash receptacles (e)
$\square$ telephone (c)
$\square$ recycle receptacles (f)
vending (g)
$\square$ other (please specify) $\qquad$

11. When traveling, which type of facility do you prefer to use? (pick only one, write letter here):
A. safety rest area
C. private/commercial facilities
B. public park
D. combined safety rest areas \& private/commercial facilities
12. Which of the following private commercial business types would you prefer at Minnesota's rest areas? (check all that apply)

| $\square$ none (a) | $\square$ restaurant (fast food/takeout) (c) | $\square$ gas and vehicle service (e) |
| :--- | :--- | :--- |
| $\square$ vending machines (b) | $\square$ restaurant (sit down) (d) | $\square$ other | (f)

13. If you were fatigued, needed to change drivers or experiencing potential mechanical problems, where would you stop? (pick only one, write letter here):
A. interchange
C. commercial facility
E. continue driving
G. next town
B. highway shoulder
D. rest area
F. other (please specify) $\qquad$
14. Please rate, using a range of 1 to 10 , the importance of each of the following highway operation activities.
$1=$ not important to you at all $\quad 5=$ medium importance $\quad 10=$ extremely important
___ Road surface (i.e., pavement construction, snow and ice removal, smooth pavement) Roadside (i.e., landscaping, mowing, trash removal, eliminating weeds)
——Motorist Services (i.e., road signs, rest areas, emergency road condition information)
15. Please rate, using a range of 1 to 10 , the importance of each of the following motorist services.

$\qquad$ = medium importance
$10=$ extremely important rest areas $\qquad$ emergency road condition information
16. Do you usually feel safe using Minnesota rest areas on Interstate highways? $\square$ Yes $\square$ No No Opinion
17. Do you feel safe using Minnesota rest areas after dark? $\square$ Yes $\square$ No Opinion
18. The next rest area is located at Forest Lake ( 80 miles), is this distance:(pick only one, write letter here):
A. Too far
B. Too close
C. About right

## Additional Comments:

General Andrews REST AREA USAGE SURVEY - THURSDAY, AUGUST 8, 1996

|  | CARS |  |  | PICK-UPS, VANS |  |  |  | SEMI'S |  |  | OTHER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOUR | car only | w/rec. <br> trailer | w/other trailer | $\begin{gathered} \text { p- } \\ \text { upivan } \\ \text { only } \end{gathered}$ | w/rec <br> trailer | w/other trailer | Commer <br> TRUCK <br> s | tractor trailers | RV'S | BUS | (motorcycles) | $\underset{L}{\text { TOTA }}$ |
|  | 1 | 2 | 3 | 10 | 11. | 12 | \% 13 | 20 | 30 | 31 | 40 |  |
| 9** 10 | $1{ }^{1}$ |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { p.5S-11 } \\ & 10-11 \end{aligned}$ | 28 | 0 | 0 | 13 | 6 | 0 | , | 6 | 1 | 0 | 2 | 50 |
| 11-12 | 243 | $\bigcirc$ | 0 | 142 | 13 | 5 | 15 | $37$ | 14 | 0 | 6 | 475 |
| 12-1 | 227 | $3$ | 1 | 145 | 15 | $7$ | $7$ | $38$ | $5$ | $\cdots$ | 1 | 449 |
| 1-2 | 240 | 3 | 0 | 181 | 5 |  | 3 | 42 | 5 | 1 | 3 | 453 |
| 2-3 | 271 | 2 | 0 | 163 | 19 | 2 | 9 | 21 | 8 | 2 | 2 | 499 |
| 3-4 | 302 | 2 | 1 | $186$ | 16 | $5$ | 1 | $4$ | $4$ | $2$ | 3 | 563 |
| 4-5 | $323$ | $3$ | 1 | 211 | $17$ | $6$ | $7$ | $28$ | 11 | 2 | 2 | 611 |
| 5-6** | 2101 | 1 | 1 | 175 | 12 | 8 | 2 | $27$ | / |  | / | 489 |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  | 3,589 |

** CHECK THE WATER METERS @ 9:00a $\qquad$ AND@6:00p 14291100 RECORD ON MIKE'S SHEET!

General Andrews REST AREA USAGE SURVEY - FRIDAY, AUGUST 9, 1996

|  | CARS |  |  | PICK-UPS, VANS |  |  |  | SEMI'S |  |  | OTHER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOUR | $\begin{aligned} & \text { car } \\ & \text { only } \end{aligned}$ | w/rec. trailer | w/other trailer | p- up/van only | w/rec. trailer | w/other trailer | $\begin{gathered} \text { Commer } \\ \text { TRÜCK } \\ \hline \end{gathered}$ | tractor trailers | RV'S | BUS | (motorcycles) | $\underset{\mathrm{L}}{\text { TOTA }}$ |
|  | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 |  |
| $9 * *-10$ | 186 | 0 | 1 | 152 | 5 | 2 | $\partial$ | $28$ | $6$ | $C$ | $\bigcirc$ | $384$ |
| 10-11 | 239 | 0 | 1 | 139 | 12 | $6$ | $4$ | $36$ | $7$ | 0 | 2 | $446$ |
| 11-12 | $288$ | 2 | 0 | 202 | 21 | $6$ | $7$ | $36$ | $17$ | 0 | 4 | $58$ |
| 12-1 | $1307$ | 2 | $\bigcirc$ | 209 | 23 | $5$ | $8$ | $24$ | 5 | 0 | 2 | $58$ |
| 1-2 | $326$ | 4 | / | 207 | 26 | 3 | 6 | 27 | 13 | 3 | 3 | $639$ |
| 2-3 | $364$ | 3 | $\bigcirc$ | 253 | 32 | $7$ | 11 | $32$ | 20 | 6 | 2 | $724$ |
| 3-4 | $420$ | 2 | 0 | 284 | 31 | 15 | 12 | $27$ | 10 | 0 | 1 | 808 |
| 4-5 | 359 | 4 | 3 | $248$ | $18$ | $8$ | 9 | 20 | 8 | $\bigcirc$ | 5 | 168 |
| $5-6 * *$ | 371 | 7 | 0 | 233 | 30 | 3 | 7 | 22 | 7 | 1 | 2 | $683$ |
| TOTAL | $2860$ | $24$ | 1 | $1947$ | $198$ | $55$ | 66 | 252 | $95$ | $4$ | 21 | 5528 |

** CHECK THE WATER METERS @ 9:00a 18281800
AND @ 6:00p 18284900

General Andrews REST AREA USAGE SURVEY - SATURDAY, AUGUST 10, 19941996

|  | CARS |  |  | PICK-UPS, VANS |  |  |  | SEMI'S |  |  | OTHER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOUR | $\begin{aligned} & \text { car } \\ & \text { only } \end{aligned}$ | w/rec. <br> trailer | w/other trailer | $\begin{gathered} \text { p- } \\ \text { upivan } \\ \text { only } \end{gathered}$ | w/rec. trailer | w/other trailer | Commer TRUCK S | tractor trailers | RV'S | BUS | (motorcycles) | tota |
| \% | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40. | + |
| $9^{\star *}-10$ | 273 | 1 | $3$ | 181 | 18 | $2$ | $3$ | $6$ | $3$ | , | 0 | $491$ |
| 10-11 | 290 | 2 | 1 | 198 | 25 | 5 | 1 | 7 | 10 | 0 | 5 | 544 |
| 11-12 | 342 | 3 | 2 | 208 | 50 | 9 | 2 | 9 | 10 | 1 | 2 | 688 |
| 12-1 | 325 | 4 | 1 | 194 | $431$ | 6 | 3 | 2 | 8 | $\bigcirc$ | 4 | $\begin{gathered} 590 \\ 56 \end{gathered}$ |
| 1-2 | $334$ | 4 | $\angle$ | $198$ | $60$ | 10 | $5$ | $7$ | 6 | 1 | 9 | 640 |
| 2-3 | $321$ | $4$ | 2 | $196$ | $55$ | $6$ | $/$ | $\%$ | $B$ | $P$ | $0$ | 612 |
| 3-4 | 334 | 12 | 5 | 218 | $94$ | 9 | 1 | 6 | 10 | $4$ | $8$ | 7014 |
| 4-5 | $376$ | $8$ | 4 | 228 | $48$ | $8$ | 1 | $5$ | 10 | 11 | 4 | 703 |
| 5-6** | $360$ | 13 | $Z$ | 204 | $4<$ | 11 | $2$ | $1$ | $\zeta$ | $3$ | 7 | $\begin{aligned} & 66! \\ & 7 \times 6 \end{aligned}$ |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  | 5,580 |

$\qquad$ AND @ 6:00p $\qquad$ RECORD ON MIKE'S SHEET

General Andrews REST AREA USAGE SURVEY - SUNDAY, AUGUST 11, 4994 " 1996

|  |  |  | cmas |  |  | roxues ver |  |  |  |  |  | orter |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hove | \%int | \#* | \%osem | mame |  | mime | $\pm$ |  | ${ }_{\text {cosem }}^{\text {maxas }}$ | nvs | ows |  | ${ }^{00 \times 2}$ |
|  | . |  | 2 | . | 10 | " | 12 | ${ }^{3}$ | 20 | 3 | , | ${ }^{10}$ |  |
| 8-70 | 27 | 28 | 2 | 1 | 158 | 19 | 6 | 2 | 2 | 9 |  |  | 17 |
| 0, 0.1 | 41. | 3 | 3 |  | 213 | 32 |  |  |  |  |  |  |  |
| \#-12 | 47 |  | 4 |  | 316 | 47 |  |  |  |  |  |  |  |
| 12.1 | 56 |  | 9 |  | 77 | 58 |  |  |  |  |  |  |  |
| 1.2 |  | 7 | 12 | 4 | 46 | 80 | 14 | 1 | 4 | 21 | 3 | 30 |  |
| $2 \cdot 8$ | \% | co | 19 | 2 | 539 | $9 \%$ | 10 | 2 | 8 | 18 | 3 | 16 |  |
| 3.4 | 16 | 60 | 13 | 3 | 621 | 105 | 36 | - | $z$ | 22 | 1 | \% 0 |  |
| 4.5 |  | 17 | 3 | 5 | 644 | 92 | 32 | 2 | 6 | 18 | , | 2 |  |
| ${ }_{5}^{6.6}$ |  | 7 | 8 | z | 617 | 118 | 23 |  | 11 | 21 | - | 11 |  |
| тоги |  |  | 75 | 25 |  |  | 145 | 10 | 37 |  | $1 /$ |  |  |

General Andrews REST AREA USAGE SURVEY - MONDAY, AUGUST 12, 99941996

|  | CARS |  |  | PICK-UPS, VANS |  |  |  | SEMI'S |  |  | OTHER |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| HOUR | car only | w/rec. trailer | w/other trailer | p. up/van only | w/rec. trailer | w/other trailer | $\begin{aligned} & \text { Commer } \\ & \text { TRUCK } \\ & \hline \mathbf{S} \end{aligned}$ | tractor trailers | RV'S | Bus | (motorcycles) | $\begin{gathered} \text { TOTA } \\ \mathrm{L} \end{gathered}$ |
|  | 1 | 2 | 3. | 10 | 11 | 12. | 13 | 20 | 30 | 31 | 40 |  |
| 9** 10 | 190 | 0 | 2 | 120 | 10 | 3 | 7 | $38$ | 3 | $6$ | 2 | 373 |
| 10-11 | 274 | $\bigcirc$ | 1 | 176 | 17 | 7 | 6 | 34 | 6 | 1 | $\alpha$ | 524 |
| 11-12 | $304$ | $1$ | 2 | $169$ | $16$ | $2$ | 5 | $37$ | 9 | $0$ | $4$ | $542$ |
| 12-1 | $1337$ | 2 | / | 190 | $20$ | $9$ | $4$ | $40$ | $4$ |  | 5 | 623 |
| 1-2 | 277 | 2 | , | $18<$ | $14$ | $q$ | $5$ | 23 | $\overline{7}$ | / | $5$ | $523$ |
| 2-3 |  | ( $)$ | 1 | 177 | $39$ | $B$ | $6$ | $33$ | 13 | $\theta$ | 1 |  |
| 3-4 | 250 | $3$ | $/$ | 776 | $37$ | / 0 | $/ d$ | $162$ | $24$ | $q$ | $4$ | $58$ |
| 4-5 | 338 | 1 | 2 | $233$ | 24 | 4 | 6 | $34$ | 9 | $4$ | $1$ | $659$ |
| 5-6** | 243 | 2 | 2 | $198$ | 19 | S | $8$ | 33 | 10 | 0 |  | 501 |
| TOTAL |  |  |  |  |  |  |  |  |  |  |  | 4,920 |

$\qquad$


[^0]:    ${ }^{1}$ Standard vehicle: car, pick-up, van, motorcycle
    Oversized vehicle: car, pickup or van with trailer, recreational vehicle Commercial vehicle: semi-tractor trailer truck, commercial truck, bus

[^1]:    \% Responding:
    $88.25 \% \quad 87.40 \%$
    92.49\%
    91.25\%

