



Minnesota Department of Transportation

Hansel Lake Safety Rest Area 1993 User Survey

*Prepared by Office of Technical Support,
Site Development Unit*



March 11, 1994

State of Minnesota
Department of Transportation
Office of Technical Support
Transportation Building, Mailstop 686
395 John Ireland Boulevard
Saint Paul, Minnesota 55155

The Minnesota Department of Transportation (Mn/DOT), Office of Technical Support - Site Development Unit, conducted a Safety Rest Area User Survey at the Hansel Lake Safety Rest Area, located approximately 12 miles southeast of Fergus Falls, on westbound Interstate 94, July 22 through 26, 1993.

The objective of user surveys is to accumulate user data to verify or modify safety rest area design criteria developed for highway planning, location, and design. Pertinent information collected includes percent of vehicles stopping, traffic classification, persons per vehicle, and use of facilities.

Each vehicle was stopped on the deceleration ramp before reaching the parking stalls and building. The driver of each vehicle was handed one 8 1/2" X 14" paper user survey. The boxed information at the top of each user survey, (day of week, licensing state, vehicle type, and time-in), was recorded by the on-site staff as the vehicle approached. All survey participants were asked to fill out the twelve question survey during their stay at the facility. Commercial vehicle operators were asked an additional four questions. The surveys were collected by the on-site staff waiting on the acceleration ramp, who then recorded the time-out.

From 8:00a to 5:00p during the five day survey, 2,035 vehicles and 4,541 people used the facility. Of all the Interstate 94 traffic passing, 13.6% stopped and used the facility. This percentage is slightly higher than the 12% average stopping Mn/DOT uses for design calculations. The average length of stay for all vehicles was 12.9 minutes. As expected, long distance travelers spent the most time on-site, averaging 20.3, 22.9, and 26 minutes for semi-tractor trailer trucks, buses, and recreational vehicles, respectively.

When asked what additional facilities they would like to see in safety rest areas, travelers responded they would like more food services. More vending machines, coffee machines,

and fast food were the most popular responses for non-commercial vehicle travelers. For commercial vehicle operators, more vending, phones with drive up locations, and more/larger truck parking areas were the most popular responses.

The State of Minnesota's safety rest areas remain very popular with travelers. In preference of use, 66% of non-commercial motorists prefer to use non-commercial safety rest areas compared to 18% who prefer private commercial facilities. Although Minnesota does not have any combined safety rest areas/private commercial facilities, 2% of motorists prefer to use such facilities. Of commercial vehicle operator, 51% prefer to use safety rest areas compared to 20% who prefer to use private commercial facilities and 8% who prefer the combined facilities.

Public funding of safety rest areas continue to be viewed very favorably by motorists. Of non-commercial vehicle operators, 86% of motorists responded that safety rest area construction and operation are a good use of state and federal tax money, while 0.9% responded they are not a good use on tax money, with 13% not responding to the question. For the same use of tax money question, 78% of commercial vehicle operators responded favorably, 2% unfavorably, and 20% not responding.

The user survey revealed some potentially hazardous practices of commercial vehicle operators. When asked, "If the truck parking stalls where full and/or not available, where would you have stopped?", 17% stated that they would park on the safety rest area exit/entrance ramp shoulders, 11% would continue driving, 8% would park on the highway shoulder/ramp, and 6% would park in the safety rest area car lot.

The results of this user survey are stored as 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.

The Hansel Lake Safety Rest Area facility, built in 1968, is deficient in several areas, including codes, building capacities, roadway and parking geometrics. This facility is under study for reconstruction and rehabilitation. The information collected in the 1993 survey will aid in the evaluation of the present facility. Several options will be studied in relation to cost. The two most likely options include: rehabilitating and expanding the present site; or closing the present site and building a new facility directly across from the Lake Iverson Safety Rest Area, 10 miles to the northwest. The Lake Iverson location better fits the desirable spacing for safety rest areas, and both facilities could share water and wastewater systems. The project is currently programmed for construction in 1997.

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

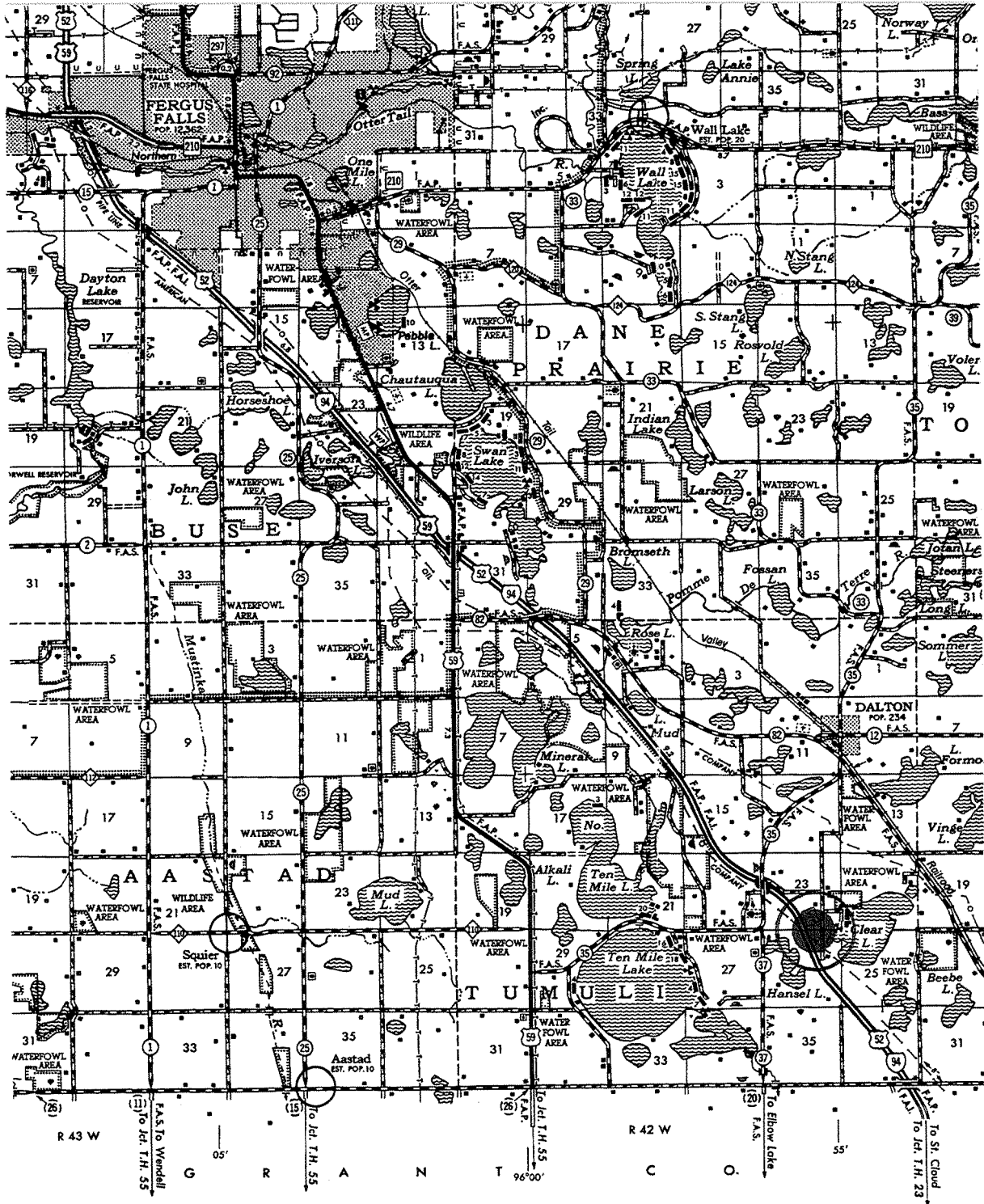


Carol R. Braun
Senior Landscape Architect
(612) 296-1648



Karl E. Weissenborn
Graduate Landscape Architect
(612) 296-0295

Location of the Hansel Lake Safety Rest Area.



The Hansel Lake Safety Rest Area is located in Otter Tail County, approximately 12 miles southeast of Fergus Falls, on westbound Interstate 94. The surrounding picturesque environment is dominated by gently rolling grasslands with scattered oak woods, lowland lakes and cattail wetlands.

The driver of each vehicle was given one copy of the following survey. (The 8 1/2" X 14" survey has been reduced to fit this page.)



**HANSEL LAKE SAFETY REST AREA
USER SURVEY, July 22-26, 1993**

| | |
|--|---|
| Day of week: Thurs. Fri. Sat. Sun. Mon. | Vehicle Type: 1 2 3 10 11 12 13 20 30 31 40 |
| Licensing State: MN _____ (specify other) | Time In: _____ Time Out: _____ |

Dear Motorist:

The Minnesota Department of Transportation is attempting to determine how Safety Rest Areas along interstate highways are utilized and what facilities should be provided to satisfy your needs. Only you can supply the information we need to plan future Safety Rest Area facilities. Please answer the following questions:

- Number of people in your vehicle? senior adults (over 60) _____ adults (16-59) _____ children (under 16) _____
- Reason for your travel? business: _____ vacation: _____ personal: _____
- How far do you generally travel between stops? miles _____ time: _____
- Please check your main reason for stopping. (pick one, write letter here) _____

| | | | |
|---------------|-------------------------|------------------|-----------------------|
| A. rest room | D. rest/relax | G. telephone | I. travel information |
| B. eat/picnic | E. water | H. switch driver | J. other _____ |
| C. sleep | F. check load/equipment | | (please specify) |
- How many people in your party used the following?
rest room facilities: _____ drinking water supply: _____
telephone: _____
- Which of the following facilities were used by your party?
 picnic table rest rooms only picnic shelter
 trash receptacle state map display telephone
 pet exercise area other _____
(please specify)
- What additional facilities would you like to see in safety rest areas? _____
- When traveling, which facility do you prefer to use? (pick one, write letter here) _____
A. interstate rest areas C. combined public rest area/private commercial facility
B. private commercial facilities
- If private and commercial development were permitted at safety rest areas, which of the following business types would you prefer? (pick one, write letter here) _____
A. vending machines C. restaurant (fast food/take out) E. no private/commercial development
B. restaurant (sit down) D. gas and vehicle services
- If this facility were not available, where would you have stopped? (pick one, write letter here) _____
A. interchange C. highway shoulder/ramp
B. commercial service facility D. next town other _____
(please specify)
- What types of travel information would you like available at safety rest areas? _____
- Do you think safety rest area construction and operation are a good use of motorist State and Federal tax money? yes no

COMMERCIAL TRUCK OPERATORS

- If truck parking stalls were full and/or not available, where would you stop? (pick one, write letter here) _____

| | | |
|------------------------|--|------------------|
| A. continue driving | D. rest area car lot | G. other _____ |
| B. next town | E. rest area exit/entrance ramp shoulder | (please specify) |
| C. commercial facility | F. highway shoulder/ramp | |
- Where did your current trip originate? City _____ State _____ Zip Code _____
- Where will your current trip end? City _____ State _____ Zip Code _____
- In your opinion, what is the value of safety rest areas? _____

PLEASE RETURN SURVEY TO THE PEOPLE AT REST AREA EXIT RAMP. THANK YOU

SUMMARY OF COLLECTED DATA

Date/time of survey: July 22 though 26, 1993, 8:00a to 5:00p

Weather on site: mostly sunny to partly cloudy (July 22: heavy rain after 2:00p, surveys distributed intermittently)

Total I-94 mainline vehicles: 14,969

I-94 mainline vehicles passing safety rest area without entering: 12,934

Vehicles entering safety rest area: 2,035

Percent of I-94 mainline vehicles stopping at safety rest area: 13.59%

Percent of out-of-state vehicles stopping at safety rest area: 50.81%

Percent in-state vehicles stopping at safety rest area: 49.19%

| | | | |
|--|---------------|------------|----------------------------|
| Age distribution of people using the safety rest area: | 19.40% | 881 | Senior adults (over 60) |
| | 60.43% | 2,744 | Adults (16 to 59) |
| | <u>20.17%</u> | <u>916</u> | <u>Children (under 16)</u> |
| | 100.00% | 4,541 | Total |

Average number of people per vehicle: 2.23

Average length of stay in safety rest area: 12.90 minutes

Number of vehicles 8:00a to 5:00p

| <u>Date</u> | <u>Day</u> | <u>Vehicles Entering Rest Area</u> | <u>Vehicles Not Entering Rest Area</u> | <u>Daily Traffic Totals</u> | <u>Ave. Pct. Stopping at Rest Area</u> |
|---------------------------|---------------|------------------------------------|--|-----------------------------|--|
| July 22 | Thursday | 337 | 2,176 | 2,513 | 13.4% |
| July 23 | Friday | 446 | 2,946 | 3,392 | 13.1% |
| July 24 | Saturday | 472 | 2,810 | 3,282 | 14.4% |
| July 25 | Sunday | 377 | 2,551 | 2,928 | 12.9% |
| <u>July 26</u> | <u>Monday</u> | <u>403</u> | <u>2,451</u> | <u>2,854</u> | <u>14.1%</u> |
| Totals (surveys returned) | | 2,035 | 12,934 | 14,969 | 13.6% |

Time of vehicles entering Safety Rest Area

| <u>Time</u> | <u>Thurs.</u> | <u>Fri.</u> | <u>Sat.</u> | <u>Sun.</u> | <u>Mon.</u> |
|--------------------|---------------|-------------|-------------|-------------|-------------|
| 8:00 - 9:00 | 11 | 16 | 32 | 10 | 33 |
| 9:00 - 10:00 | 40 | 32 | 50 | 26 | 59 |
| 10:00 - 11:00 | 43 | 38 | 64 | 51 | 45 |
| 11:00 - 12:00 | 40 | 51 | 60 | 39 | 66 |
| 12:00 - 1:00 | 42 | 60 | 71 | 52 | 52 |
| 1:00 - 2:00 | 39 | 60 | 44 | 52 | 35 |
| 2:00 - 3:00 | 38 | 65 | 55 | 53 | 44 |
| 3:00 - 4:00 | 41 | 76 | 52 | 48 | 41 |
| <u>4:00 - 5:00</u> | <u>43</u> | <u>47</u> | <u>31</u> | <u>44</u> | <u>21</u> |
| Totals | 337 | 445 | 459 | 375 | 396 |

Note: Total is not equivalent to the 2,035 "vehicles entering safety rest area", as shown above, due to weather interruptions and/or human error in recording the "Time-in" entries.

Type of vehicle entering Safety Rest Area

| | <u>Vehicle Total</u> | <u>Average Length of Stay*</u> | <u>Number of People</u> | <u>(A)</u> | <u>(B)</u> |
|--|--------------------------|--|-----------------------------|--------------|------------|
| Non-Commercial Vehicles | | | | | |
| Cars | 1,102 | 8.99 | 2,259 | 54.39% | 15.90% |
| Car w/ recreation trailer | 5 | 19.00 | 16 | 0.25% | 11.90% |
| Car w/ other trailer | 8 | 18.63 | 17 | 0.39% | 13.79% |
| Pick-up or van | 509 | 14.90 | 1,380 | 25.12% | 16.14% |
| Pick-up - van w/ rec. trailer | 66 | 19.20 | 154 | 3.26% | 34.38% |
| Pick-up - van w/ other trailer | 27 | 13.04 | 68 | 1.33% | 9.34% |
| Recreational vehicles | 62 | 26.03 | 158 | 3.06% | 28.18% |
| Other | 12 | 8.42 | 16 | 0.59% | 14.46% |
| Commercial Vehicles | | | | | |
| Commercial trucks | 20 | 15.25 | 18 | 0.99% | 10.47% |
| Semi-tractor trailer trucks | 208 | 20.29 | 205 | 10.27% | 12.02% |
| Buses | 7 | 22.86 | 189 | 0.35% | 15.91% |
| Not recorded (see <u>note</u> this page) | 9 | <u>8.33</u> | <u>61</u> | <u>0.44%</u> | |
| | | 12.90 | 4,541 | 100% | |

* Minutes

(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.

SURVEY QUESTIONS

Note: The responses to the following survey questions, (except Question 1 and 6), are divided and classified into two categories:

Non-Commercial Vehicles: Representing all vehicles except commercial vehicles;

Commercial Vehicles: Representing commercial trucks, semi-tractor trailers, and buses.

Question 1: Number of people in your vehicle?

| | All People Entering Safety Rest Area | <u>Percent</u> |
|----------------------------|--|----------------|
| Senior adults (over 60) | 881 | 19.40 |
| Adults (16 - 59) | 2,744 | 60.43 |
| <u>Children (under 16)</u> | <u>916</u> | <u>20.17</u> |
| Total | 4,541 | 100.00 |

Question 2: Reason for your travel?

| | Non-Commercial <u>Vehicles</u> | <u>Percent</u> | Commercial <u>Vehicles</u> | <u>Percent</u> |
|--------------------|-----------------------------------|----------------|-------------------------------|----------------|
| Vacation | 890 | 49.44 | 2 | 0.85 |
| Personal | 474 | 26.33 | 2 | 0.85 |
| Business | 221 | 12.28 | 187 | 79.57 |
| <u>No response</u> | <u>215</u> | <u>11.94</u> | <u>44</u> | <u>18.72</u> |
| Total | 1,800 | 99.99 | 235 | 99.99 |

Question 3: How far do you generally travel between stops?

| | <u>Non-Commercial Vehicles</u> | <u>Average Length of Stay Minutes</u> | <u>Commercial Vehicles</u> | <u>Average Length of Stay Minutes</u> |
|--------------------|------------------------------------|---|--------------------------------|---|
| Less than 1 hour | 2 | 21.00 | - | 0.00 |
| 1 to 2 hours | 184 | 13.13 | 2 | 27.50 |
| Over 2 hours | 646 | 15.98 | 93 | 25.05 |
| <u>No response</u> | <u>968</u> | | <u>140</u> | |
| Total | 1,800 | | 235 | |

Question 4.: Please check your main reason for stopping. (check only one)

| | <u>Non-Commercial Vehicles</u> | <u>Percent</u> | <u>Commercial Vehicles</u> | <u>Percent</u> |
|----------------------|------------------------------------|----------------|--------------------------------|----------------|
| Rest rooms | 1,304 | 72.44 | 140 | 59.57 |
| Rest/relax | 149 | 8.28 | 15 | 6.38 |
| Switch drivers | 42 | 2.33 | - | 0.00 |
| Eat/picnic | 40 | 2.22 | 3 | 1.28 |
| Telephone | 20 | 1.11 | 14 | 5.96 |
| Sleep | 9 | 0.50 | 5 | 2.13 |
| Travel information | 4 | 0.22 | 2 | 0.85 |
| Water | 3 | 0.17 | - | 0.00 |
| Check load/equipment | 3 | 0.17 | 13 | 5.53 |
| Other | 15 | 0.83 | - | 0.00 |
| <u>No response</u> | <u>211</u> | <u>11.72</u> | <u>43</u> | <u>18.30</u> |
| Total | 1,800 | 99.99 | 235 | 100.00 |

Question 5: How many people in your party used the following?

| | <u>Non-Commercial Vehicles</u> | <u>Commercial Vehicles</u> |
|----------------------|------------------------------------|--------------------------------|
| Rest room facilities | 3,376 | 347 |
| Drinking water | 771 | 99 |
| Telephone | 109 | 77 |

Question 6: Which of the following facilities were used by you party?

| | <u>Number of Responses</u> | <u>Percent</u> |
|--------------------|--------------------------------|----------------|
| Rest room only | 1,444 | 70.96 |
| Trash receptacles | 561 | 27.57 |
| State map displays | 206 | 10.12 |
| Picnic tables | 178 | 8.75 |
| Telephone | 144 | 7.08 |
| Pet exercise area | 83 | 4.08 |
| Picnic shelter | 33 | 1.62 |
| Other | 58 | 2.85 |

Question 7: What additional facilities would you like to see in Safety Rest Areas?

| | <u>Non-Commercial Vehicles</u> |
|---|------------------------------------|
| More vending machines | 197 |
| Coffee machine | 44 |
| Fast food | 36 |
| More/bigger rest room facilities: stalls, sinks, dryers, diaper | 28 |
| Playground equipment | 25 |
| Maps and travel information | 21 |
| Recreational vehicle dump station | 16 |
| Gas and service | 15 |
| More phones/drive up locations | 11 |
| Showers | 9 |
| Site items: tables, benches, trails | 6 |
| Paper towels | 6 |
| Overnight camping/parking | 5 |
| Security/policing | 5 |
| Recycling containers * | 5 |
| No additional facilities | 2 |

* A safety rest area recycling program was started in summer 1993.

(cont.) Question 7: What additional facilities would you like to see in Safety Rest Areas?

| | <u>Commercial Vehicles</u> |
|--|--------------------------------|
| More vending machines | 21 |
| More phones/drive up locations | 15 |
| More/larger truck parking areas | 14 |
| Coffee machine | 4 |
| Paper towels | 2 |
| Fast food | 2 |
| Showers | 2 |
| Separate parking for recreation vehicles | 2 |
| Better lighting | 1 |
| Weather information/radio | 1 |

Question 8: When traveling, which facility do you prefer to use? (Check only one)

| | <u>Non-Commercial Vehicles</u> | <u>Percent</u> | <u>Commercial Vehicles</u> | <u>Percent</u> |
|---|------------------------------------|----------------|--------------------------------|----------------|
| Safety Rest Area | 1,184 | 65.78 | 120 | 51.06 |
| Private commercial facility | 332 | 18.44 | 48 | 20.43 |
| Combined Safety Rest Area/ private commercial facility | 35 | 1.94 | 19 | 8.09 |
| <u>No response</u> | <u>249</u> | <u>13.83</u> | <u>48</u> | <u>20.43</u> |
| Total | 1,800 | 99.99 | 235 | 100.01 |

Question 9: If private and commercial development were permitted at Safety Rest Areas, which of the following business types would you prefer? (check only one)

| | <u>Non-Commercial Vehicles</u> | <u>Percent</u> | <u>Commercial Vehicles</u> | <u>Percent</u> |
|--------------------------------------|------------------------------------|----------------|--------------------------------|----------------|
| Restaurant, fast food | 399 | 22.17 | 56 | 23.83 |
| Vending machines | 389 | 21.61 | 51 | 21.70 |
| No private/commercial development | 373 | 20.72 | 41 | 17.45 |
| Gas and service | 242 | 13.44 | 5 | 2.13 |
| Restaurant, sit down | 121 | 6.72 | 33 | 14.04 |
| <u>No response</u> | <u>276</u> | <u>15.33</u> | <u>49</u> | <u>20.85</u> |
| Total | 1,800 | 99.99 | 235 | 100.00 |

Question 10: If this facility were not available, where would you have stopped? (Check only one)

| | Non-Commercial <u>Vehicles</u> | <u>Percent</u> | Commercial <u>Vehicles</u> | <u>Percent</u> |
|-----------------------|-----------------------------------|----------------|-------------------------------|----------------|
| Next town | 885 | 49.17 | 60 | 25.53 |
| Commercial facility | 438 | 24.33 | 76 | 32.34 |
| Highway shoulder/ramp | 111 | 6.17 | 38 | 16.17 |
| Interchange | 92 | 5.11 | 7 | 2.98 |
| Other | 35 | 1.94 | 5 | 2.13 |
| <u>No response</u> | <u>239</u> | <u>13.28</u> | <u>49</u> | <u>20.85</u> |
| Total | 1,800 | 100.00 | 235 | 100.00 |

Question 11: What types of travel information would you like available at Safety Rest Areas?

| | Non-Commercial <u>Vehicles</u> | Commercial <u>Vehicles</u> |
|--|-----------------------------------|-------------------------------|
| Maps | 467 | 25 |
| Road construction/conditions | 140 | 21 |
| Weather conditions | 120 | 22 |
| Local tourist information, cultural places of interest, local brochures | 68 | 3 |
| State maps | 38 | 2 |
| State/local recreation, parks, camping | 20 | 1 |
| Phone reservations | 9 | 2 |
| Gas, food and lodging | 9 | - |
| Milage and distance maps | 8 | - |
| Local hospital | 2 | - |

Question 12: Do you believe Safety Rest Area construction and operation are a good use of motorist state and federal tax money?

| | Non-Commercial <u>Vehicles</u> | <u>Percent</u> | Commercial <u>Vehicles</u> | <u>Percent</u> |
|--------------------|-----------------------------------|----------------|-------------------------------|----------------|
| Yes | 1,546 | 85.89 | 183 | 77.87 |
| No | 16 | .89 | 5 | 2.13 |
| <u>No response</u> | <u>238</u> | <u>13.22</u> | <u>47</u> | <u>20.00</u> |
| Total | 1,800 | 100.00 | 235 | 100.00 |

**Question 13: If truck parking stalls where full and/or not available, where would you stop?
(Check only one)**

| | <u>Commercial Vehicles</u> | <u>Percent</u> |
|--|--------------------------------|----------------|
| Safety Rest Area exit/entrance ramp shoulder | 41 | 17.45 |
| Commercial facility | 39 | 16.60 |
| Next town | 29 | 12.34 |
| Continue driving | 25 | 10.64 |
| Highway shoulder/ramp | 19 | 8.09 |
| Safety Rest Area car lot | 16 | 6.81 |
| Other | 8 | 3.40 |
| <u>No response</u> | <u>58</u> | <u>24.68</u> |
| Total | 235 | 100.01 |

Question 14: Where did your current trip originate?

| | <u>Commercial Vehicles</u> | <u>Percent</u> |
|----------------------------------|--------------------------------|----------------|
| Greater Minneapolis/St. Paul, MN | 57 | 24.25 |
| Chicago, IL | 12 | 5.12 |
| Green Bay/Wausau, WI | 11 | 4.68 |
| Fargo, ND | 10 | 4.25 |
| Greater Illinois | 7 | 2.98 |
| Greater North Dakota | 7 | 2.98 |
| Des Moines, IA | 6 | 2.55 |
| Greater Pennsylvania | 6 | 2.55 |
| Milwaukee, WI | 6 | 2.55 |
| Willmar, MN | 6 | 2.55 |
| Greater Ohio | 4 | 1.70 |
| St. Cloud, MN | 4 | 1.70 |
| Greater New York | 4 | 1.70 |
| All other cities/areas | 31 | 13.19 |
| <u>No response</u> | <u>64</u> | <u>27.23</u> |
| Total | 235 | 99.98 |

Question 15: Where will your current trip end?

| | <u>Commercial Vehicles</u> | <u>Percent</u> |
|------------------------|--------------------------------|----------------|
| Greater Fargo/Moorhead | 45 | 19.15 |
| Greater Grand Forks | 21 | 8.94 |
| Greater Washington | 21 | 8.94 |
| Bismarck, ND | 19 | 8.08 |
| Greater Oregon | 11 | 4.68 |
| Greater Manitoba | 10 | 4.25 |
| Greater Montana | 10 | 4.25 |
| Greater Alberta | 6 | 2.55 |
| Minot, ND | 6 | 2.55 |
| All other cities/areas | 23 | 9.79 |
| <u>No response</u> | <u>63</u> | <u>26.81</u> |
| Total | 235 | 99.99 |

Question 16: In your opinion, what is the value of Safety Rest Areas?

| | <u>Commercial Vehicles</u> |
|------------------|--------------------------------|
| Very important | 38 |
| Relax/rest/sleep | 22 |
| Rest room | 22 |
| Check equipment | 7 |

For more information about this user survey, please call the Mn/DOT Site Development Unit, 612-296-1648 or 612-296-0295



HANSEL LAKE SAFETY REST AREA USER SURVEY, July 22-26, 1993

| | |
|---|---|
| Day of week: Thurs: _____ Fri. _____ Sat. _____ Sun. _____ Mon. _____ | Vehicle Type: 1 2 3 10 11 12 13 20 30 31 40 |
| Licensing State: MN _____ (specify other) | Time In: _____ Time Out: _____ |

Dear Motorist:

The Minnesota Department of Transportation is attempting to determine how Safety Rest Areas along interstate highways are utilized and what facilities should be provided to satisfy your needs. Only you can supply the information we need to plan future Safety Rest Area facilities. Please answer the following questions:

- Number of people in your vehicle? senior adults (over 60) _____ adults (16-59) _____ children (under 16) _____
- Reason for your travel? business: _____ vacation: _____ personal: _____
- How far do you generally travel between stops? miles _____ time: _____
- Please check your main reason for stopping. (pick one, write letter here) _____

| | | | |
|----------------------|--------------------------------|-------------------------|------------------------------|
| A. rest room | D. rest/relax | G. telephone | I. travel information |
| B. eat/picnic | E. water | H. switch driver | J. other _____ |
| C. sleep | F. check load/equipment | (please specify) | |
- How many people in your party used the following?
rest room facilities: _____ drinking water supply: _____
telephone: _____
- Which of the following facilities were used by your party?
 picnic table rest rooms only picnic shelter
 trash receptacle state map display telephone
 pet exercise area other _____

(please specify)
- What additional facilities would you like to see in safety rest areas? _____
- When traveling, which facility do you prefer to use? (pick one, write letter here) _____
A. interstate rest areas **C.** combined public rest area/private commercial facility
B. private commercial facilities
- If private and commercial development were permitted at safety rest areas, which of the following business types would you prefer? (pick one, write letter here) _____
A. vending machines **C.** restaurant (fast food/take out) **E.** no private/commercial development
B. restaurant (sit down) **D.** gas and vehicle services
- If this facility were not available, where would you have stopped? (pick one, write letter here) _____
A. interchange **C.** highway shoulder/ramp
B. commercial service facility **D.** next town other _____

(please specify)
- What types of travel information would you like available at safety rest areas? _____
- Do you think safety rest area construction and operation are a good use of motorist State and Federal tax money? yes no

COMMERCIAL TRUCK OPERATORS

- If truck parking stalls where full and /or not available, where would you stop? (pick one, write letter here) _____

| | | |
|-------------------------------|---|-----------------------|
| A. continue driving | D. rest area car lot | G. other _____ |
| B. next town | E. rest area exit/entrance ramp shoulder | (please specify) |
| C. commercial facility | F. highway shoulder/ramp | |
- Where did your current trip originate? City _____ State _____ Zip Code _____
- Where will your current trip end? City _____ State _____ Zip Code _____
- In your opinion, what is the value of safety rest areas? _____

PLEASE RETURN SURVEY TO THE PEOPLE AT REST AREA EXIT RAMP. THANK YOU

HANSEL LAKE REST AREA USAGE SURVEY - THURSDAY, JULY 22, 1993

| HOUR | CARS | | | PICK-UPS, VANS | | | Commer. TRUCKS | SEMI'S | RV'S | BUS | OTHER | TOTAL |
|-------|----------|----------------|-----------------|----------------|----------------|-----------------|----------------|------------------|------|-----|---------------|-------|
| | car only | w/rec. trailer | w/other trailer | p-up/van only | w/rec. trailer | w/other trailer | | tractor trailers | | | (motorcycles) | |
| | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 | |
| 8-9 | 58 | — | 1 | 30 | 3 | 6 | 8 | 23 | 5 | — | — | 134 |
| 9-10 | 104 | 1 | 1 | 36 | 3 | 2 | 12 | 37 | 3 | 1 | 1 | 201 |
| 10-11 | 104 | 2 | 2 | 41 | 3 | 4 | 2 | 47 | 1 | 1 | — | 207 |
| 11-12 | 126 | 3 | — | 60 | 2 | 3 | 9 | 49 | 5 | 1 | — | 258 |
| 12-1 | 139 | 3 | 1 | 63 | 3 | 1 | 2 | 63 | 6 | 1 | 1 | 288 |
| 1-2 | 122 | 1 | 1 | 48 | 4 | 7 | 7 | 64 | 4 | — | 2 | 260 |
| 2-3 | 135 | — | 2 | 55 | 3 | 4 | 3 | 63 | 6 | — | 2 | 273 |
| 3-4 | 126 | — | — | 80 | 7 | 6 | 8 | 58 | 6 | 3 | — | 294 |
| 4-5 | 136 | — | 2 | 56 | 6 | 7 | 5 | 45 | 3 | — | 1 | 261 |
| TOTAL | 1050 | 10 | 10 | 474 | 34 | 40 | 56 | 449 | 39 | 7 | 7 | 2176 |

HANSEL LAKE REST AREA USAGE SURVEY - FRIDAY, JULY 23, 1993

| HOUR | CARS | | | PICK-UPS, VANS | | | Commer. TRUCKS | SEMI'S tractor trailers | RV'S | BUS | OTHER (motorcycles) | TOTAL |
|-------|-------------|-------------------|--------------------|------------------|-------------------|--------------------|-------------------|-------------------------------|------|-----|------------------------|-------|
| | car only | w/rec. trailer | w/other trailer | p-up/van only | w/rec. trailer | w/other trailer | | | | | | |
| | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 | |
| 8-9 | 63 | — | — | 28 | — | 3 | 3 | 21 | — | 1 | — | 119 |
| 9-10 | 101 | — | 1 | 49 | 2 | — | 5 | 25 | 4 | — | — | 187 |
| 10-11 | 110 | 1 | — | 45 | 3 | 1 | 4 | 64 | 5 | 1 | — | 234 |
| 11-12 | 200 | 1 | — | 90 | 1 | 8 | 5 | 41 | 5 | 3 | 4 | 358 |
| 12-1 | 191 | — | — | 105 | 6 | 14 | 5 | 51 | 3 | — | — | 361 |
| 1-2 | 189 | 1 | 2 | 94 | 6 | 9 | 7 | 67 | 13 | — | — | 388 |
| 2-3 | 209 | 2 | 4 | 91 | 8 | 8 | 3 | 49 | 4 | 1 | 3 | 382 |
| 3-4 | 212 | 1 | — | 101 | 4 | 14 | 1 | 60 | 9 | 2 | 2 | 466 |
| 4-5 | 211 | 2 | 1 | 111 | 2 | 8 | 3 | 38 | 9 | 4 | 2 | 451 |
| TOTAL | 1592 | 8 | 8 | 714 | 32 | 65 | 36 | 416 | 52 | 12 | 11 | 2946 |

HANSEL LAKE REST AREA USAGE SURVEY - SATURDAY, JULY 24, 1993

| HOUR | CARS | | | PICK-UPS, VANS | | | Commer. TRUCKS | SEMI'S tractor trailers | RV'S | BUS | OTHER (motorcycles) | TOTAL |
|---------|-------------|-------------------|--------------------|------------------|----------------------|----------------------|----------------------|-------------------------------|---------------------|-----|------------------------|-------|
| | car only | w/rec. trailer | w/other trailer | p-up/van only | w/rec. trailer | w/other trailer | | | | | | |
| | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 | |
| 8 - 9 | 99 | - | 2 | 44 | 2 | 7 | 1 | 31 | 3 | - | 2 | 193 |
| 9 - 10 | 106 | - | - | 100 | 5 | 8 | 4 | 35 | 5 | - | - | 313 |
| 10 - 11 | 102 | 1 | - | 88 | 5 | 8 | 2 | 42 | 3 | 2 | 2 | 335 |
| 11 - 12 | 199 | - | 2 | 101 | 5 | 5 | 3 | 29 | 1 | - | - | 345 |
| 12 - 1 | 210 | 2 | 3 | 70 | 4 | 17 | 3 | 30 | 1 | 1 | 3 | 358 |
| 1 - 2 | 192 | 2 | 3 | 76 | 8 | 16 | 5 | 58 | 14 | 1 | 6 | 381 |
| 2 - 3 | 116 | - | 5 | 70 | 5 | 19 | 2 | 34 | 5 | 2 | 1 | 329 |
| 3 - 4 | 156 | - | 3 | 68 | 3 | 11 | 2 | 38 | - | 5 | 1 | 287 |
| 4 - 5 | 156 | 4 | 1 | 62 | 2 | 11 | 4 | 26 | 2 | - | 1 | 269 |
| TOTAL | 1520 | 9 | 19 | 697 | 39 102 | 102 24 | 26 325 | 325 40 | 46 11 | 11 | 16 | 2810 |

HANSEL LAKE REST AREA USAGE SURVEY - SUNDAY, JULY 25, 1993

| HOUR | CARS | | | PICK-UPS, VANS | | | Commer. TRUCKS | SEMI'S tractor trailers | RV'S | BUS | OTHER (motorcycles) | TOTAL |
|-------------|----------|----------------|-----------------|----------------|----------------|-----------------|----------------|-------------------------|------|-----|---------------------|-------|
| | car only | w/rec. trailer | w/other trailer | p-up/van only | w/rec. trailer | w/other trailer | | | | | | |
| | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 | |
| 8-9 | 45 | 0 | 0 | 16 | 5 | 3 | 2 | 8 | 3 | 0 | 1 | 83 |
| 9-10 | 88 | 0 | 1 | 42 | 2 | 1 | 4 | 20 | 4 | 0 | 2 | 164 |
| 10-11 | 124 | 3 | 0 | 59 | 5 | 4 | 0 | 14 | 3 | 1 | 0 | 213 |
| 11-12 | 142 | 3 | 2 | 65 | 8 | 5 | 2 | 17 | 5 | 2 | 1 | 252 |
| 12-1 | 206 | 3 | 1 | 89 | 4 | 2 | 3 | 22 | 5 | 1 | 5 | 341 |
| 1-2 | 225 | 1 | 3 | 104 | 9 | 6 | 0 | 20 | 7 | 1 | 1 | 377 |
| 2-3 | 232 | 1 | 2 | 103 | 8 | 7 | 1 | 18 | 5 | — | 4 | 381 |
| 3-4 | 273 | 0 | 1 | 106 | 8 | 5 | 2 | 21 | 7 | 4 | 3 | 430 |
| 4-5 4:30 | 186 | 2 | 2 | 77 | 3 | 5 | 1 | 22 | 6 | — | 6 | 310 |
| TOTAL | 1521 | 13 | 12 | 661 | 52 | 38 | 15 | 162 | 45 | 9 | 23 | 2551 |

STOPPED BUS TO RAIN

8:10 START WATER METER 16511:00 END 16513:00

HANSEL LAKE REST AREA USAGE SURVEY - MONDAY, JULY 26, 1993

| HOUR | CARS | | | PICK-UPS, VANS | | | Commer. TRUCKS | SEMI'S tractor trailers | RV'S | BUS | OTHER <small>(motorcycles)</small> | TOTAL |
|-------|-------------|-------------------|--------------------|------------------|-------------------|--------------------|-------------------|-------------------------------|------|-----|---------------------------------------|-------|
| | car only | w/rec. trailer | w/other trailer | p-up/van only | w/rec. trailer | w/other trailer | | | | | | |
| | 1 | 2 | 3 | 10 | 11 | 12 | 13 | 20 | 30 | 31 | 40 | |
| 8-9 | 85 | 0 | 1 | 32 | 1 | 5 | 4 | 19 | 1 | 0 | 5 | 153 |
| 9-10 | 97 | - | - | 47 | 1 | - | 7 | 40 | 2 | 1 | - | 195 |
| 10-11 | 157 | 1 | 0 | 72 | 6 | 2 | 5 | 35 | 5 | 0 | 6 | 289 |
| 11-12 | 158 | 0 | 2 | 89 | 8 | 1 | 7 | 43 | 6 | 1 | 3 | 318 |
| 12-1 | 153 | 0 | 1 | 79 | 3 | 7 | 3 | 51 | 1 | 2 | 2 | 302 |
| 1-2 | 148 | 0 | 2 | 60 | 3 | 5 | 6 | 41 | 7 | 0 | 5 | 277 |
| 2-3 | 155 | 0 | 1 | 81 | 1 | 10 | 7 | 47 | 5 | 0 | 4 | 311 |
| 3-4 | 148 | 1 | 0 | 68 | 5 | 8 | 9 | 55 | 6 | 0 | 1 | 301 |
| 4-5 | 146 | 0 | 2 | 80 | 7 | 6 | 10 | 48 | 5 | 1 | 0 | 305 |
| TOTAL | 1247 | 2 | 9 | 608 | 35 | 44 | 58 | 379 | 38 | 5 | 26 | 2451 |

KW WP file: \surveys.ra\93hansel.ra\matrix

Water Meter: Start

16515280

End 16517300