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November 20, 1997

To: Dick Stehr, Division Engineer, Metro
Don Raisanen, District Engineer, D-3

From: Carol R. Braun 
Safety Rest Area Program Manager

Subject: 1995 Safety Rest Area Usage Survey Summary Report for
Enfield Safety Rest Area, I-94, RP 187
Elm Creek Safety Rest Area, I-94, RP 215.5

Enclosed are copies of the 1995 Rest Area Usage Survey Reports for the Enfield and Elm Creek safety rest areas. This is the first distribution of these reports. Although preparation of the reports was long overdue, the information in these reports will provide timely information for the long range planning and proposed rehabilitation of these sites.

The objective of the motorist survey is to collect user data during an average summer travel weekend to verify design criteria used in the planning, location and design of rest areas. To provide information on motorist use of rest areas in this corridor, both of the above noted rest areas surveys were conducted simultaneously. The five day user surveys were conducted from August 10 through 14, 1995. The methods for conducting the surveys, copies of the survey forms and analysis of the data collected is included in the enclosed reports.

The Design Services Section, 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 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

cc:	Commissioner J. Denn, MS 100	P. Hughes, MS 120
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(attachment sent to cc list)

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*Minnesota Department
of Transportation*

*Enfield Safety Rest Area
1995 User Survey*

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



November 1997

**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**

Enfield Safety Rest Area - 1995 Usage Survey

The Minnesota Department of Transportation (MN/DOT), Office of Technical Support - Site Development Unit, conducted a Rest Area User Survey at the Enfield Safety Rest Area, serving East bound travelers on I-94, located in Stearns county west of Monticello, Minnesota, from August 10 through 14, 1995.

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 use of facilities.

During the survey period, MN/DOT staff collected information about every vehicle entering the rest area. As each vehicle approached, specific information 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 reaching the parking stalls and building. The driver of each vehicle was handed a paper User Survey form and asked to fill it out during their visit at the rest area facility. (See copy of User Survey, page 4.) The surveys were collected by MN/DOT staff waiting on the exit ramp, who then recorded the time-out.

During the five day survey period, from 8:00 am to 5:00 pm, 2,805 vehicles and 6,630 people used the rest area facilities. Of all the East bound I-94 traffic passing the site, 5% stopped and used the rest area. However, 9.4% of all recreational vehicles passing the rest area stopped. A higher than average percent of Semi-tractor trailer trucks (6.2%), trucks with other trailers (7.6) and trucks with recreational trailers (6.9) passing the site also stopped. The projected design value for percent of traffic stopping for an interstate rest area in a rural highway section is 12%. Enfield rest area is located 35 miles east of the Big Spunk safety rest area and 28.5 miles from the Elm Creek rest area.

Two factors are believed to contribute to the documented lower percent of traffic stopping at this facility during the survey period, they are: 1) closer spacing of rest areas, less than 50 miles, and

2) the Metro is a primary destination for many motorists passing this rest area.

The average length of stay for all vehicle types¹ was 13 minutes, however the oversized and commercial vehicle stayed an average of 18.4 minutes at the rest area. Motorists in standard size vehicles averaged a shorter distance of 127 miles between stops than the oversized and commercial vehicles. Commercial drivers drove on average 3.5 hours between stops while standard vehicle drivers drove on average 2.3 hours.

Users of the rest area were made up mostly of people who were either starting (69%) or ending (74%) their current trip in the state of Minnesota. Overall, the Midwest dominated trip starting and trip ending points. Thirty-one of all users started their trip in another state, while 32.9% of all vehicles entering the site were licensed out-of-state. Approximately 56% of all standard and oversized vehicles were traveling for vacation.

Over 78% of all motorists said their main reason for stopping at this facility was to use the restrooms. Motorist safety needs were the second highest reason for stopping (15.5%), which includes; rest/relax 8.2%, switch drivers 4.3%, check vehicle 1.8% and sleep 1.3%. The percent of oversized and commercial vehicles stopping at the rest area for safety needs was substantially higher than for standard sized vehicles, 20.0% and 17.8% respectively. In addition, the second single highest reason for commercial drivers to stop at this rest area was to use the telephone, 15.5%.

Facilities provided at rest areas are used and appreciated by all motorists however, motorists in standard sized vehicles used the restrooms, waste receptacles, vending machines and map displays most, while oversized vehicle motorists were higher than average users of map displays, picnic tables, outside water faucets and pet exercise areas. Over 36% of all commercial vehicle drivers used the public telephone and 14.7% used the vending machines.

The State of Minnesota's safety rest areas remain popular with travelers. At this rest area, 63.3% of all motorists preferred to use safety rest areas compared to 4.2% who preferred private commercial facilities. Although Minnesota does not have any combined safety rest areas/private commercial facilities, 30.7% of the motorists indicated a preference to use such facilities if available.

If private/commercial development were permitted in Minnesota's safety rest areas over 49% of the respondents prefer no private development or vending machines only. 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

¹ Standard vehicle: car, pick-up, van, motorcycle
Oversized vehicle: car, pick-up or van with trailer, recreational vehicle
Commercial vehicle: semi-tractor trailer truck, commercial truck, bus

areas.

When asked, "If this facility was not available, where would you have stopped?", 34.5% said they would stop at the next commercial facility, 17.2% would continue driving, 8.3% would stop on the shoulder, ramp or at an interchange. Commercial Vehicle users were more likely to stop on the highway shoulder or ramp than were users of other vehicle types.

Motorists were asked to rank the importance of several highway operations and motorists services. Rest areas were one component in this inquiry. Responses were quite similar across vehicle types regarding the importance of the three highway operation activities explored: Road Surface & Motorist Services were deemed to be quite important, while Roadside was of moderate importance. Users found the three motorist services listed to be very important, especially Road Signs and Traffic Signals. Commercial Vehicle users rated Emergency Road Condition Information as slightly more important than did users of the other vehicle types.

For short-term stopping, less than 20 minutes, 94.2% of all Commercial drivers prefer to use safety rest areas. Overall the main reasons Commercial drivers use interstate rest areas is for restrooms 62.2%, safety stops (rest/relax, check load, mechanical check) 40.3%, telephone 16.9% and update log book 8.2%.

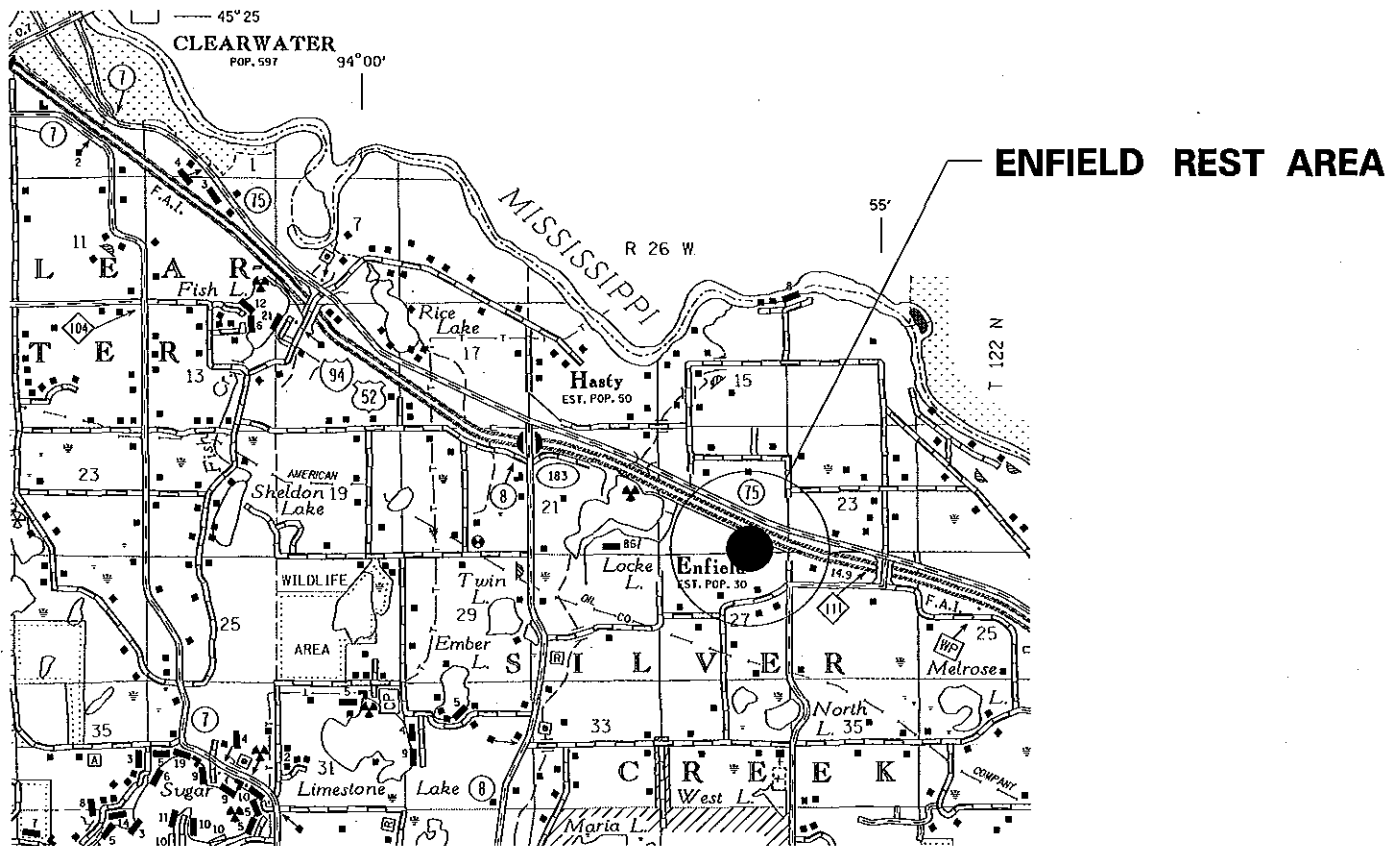
The data collected from this user survey is stored in a computer data file which allows comparison of a wide range of information and permits further opportunity for sorting data and analyzing specific user information.

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



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MN/DOT, Safety Rest Area Program Manager
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Location of the Enfield Safety Rest Area.



The Enfield Safety Rest Area is located in Stearns County approximately 6 miles west of the junction of TH 25 and I-94. The facility is located in a wooded area in relatively open, flat terrain. Due to the surrounding woods all views are within the site. This rest area includes a short walking trail through the woods. The surrounding land use is agricultural.

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.)



ENFIELD SAFETY REST AREA
USER SURVEY, AUGUST 10 -14, 1995

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 31 40 Time-out: _____

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): _____
2. Reason for your travel? business vacation other
3. How far do you generally travel between stops? miles: _____ time: _____
4. Where did your current trip start? City: _____ State: _____ Zip code: _____
Where will your current trip end? City: _____ State: _____ Zip code: _____
5. Please select your main reason for stopping at this rest area. (pick only one, write letter here): _____
A. restroom D. rest/relax G. telephone J. other (please specify) _____
B. eat/picnic E. water H. switch driver _____
C. sleep F. check vehicle I. travel information _____
6. Which of the following facilities were used by your party? (check all that apply)
 restrooms map displays outside water faucet trash/recycle receptacle
 picnic table walking trail vending machines play area
 telephone pet exercise area other (please specify): _____
7. When travelling, which type of facility do you prefer to use? (pick only one, write letter here): _____
A. safety rest areas C. private/commercial facilities
B. public park D. combined safety rest areas & private/commercial facilities
8. If private/commercial development were permitted at Minnesota's safety rest areas, which of the following business types would you prefer? (pick only one, write letter here): _____
A. vending machines C. gas and vehicle services E. no private/commercial development
B. restaurant (sit down) D. restaurant (fast food/take out)
9. If this rest area were not available, where would you stop? (pick only one, write letter here): _____
A. interchange C. next commercial facility E. continue driving
B. next town D. highway shoulder/ramp F. other (please specify) _____
10. Please rank the importance of the following highway operation activities using a range of 1 to 10.
1 = not important to you at all 5 = medium importance 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)
11. Please rank the importance of the following motorist services using a range of 1 to 10.
1 = not important to you at all 5 = medium importance 10 = extremely important
____ road signs and traffic signals ____ rest areas ____ emergency road condition information

Additional Questions for Commercial Truck Drivers Only:

12. For short term stopping (less than 20 min.) do you prefer to use rest areas or commercial truck stops?
 rest areas commercial truck stops
13. Please identify your main reason for using interstate rest areas. (Choose one only).
 rest/relax travel directions restrooms update log book
 check load telephone mechanical check other _____

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

(Please use other side for additional comments)

SUMMARY OF COLLECTED DATA

Date of survey: August 10 through 14, 1995

Time of survey: 8:00 a.m. to 5:00 p.m.

Weather on site: Partly cloudy to sunny

Total I-94 mainline vehicles traveling East bound: 56,367

I-94 mainline East bound vehicles passing safety rest area without entering: 53,562

Vehicles traveling East bound entering safety rest area: 2,805

Percent of I-94 mainline vehicles stopping at safety rest area: 4.98%

Percent of vehicles stopping at safety rest area that are from out-of-state: 32.87%

Percent of vehicles stopping at safety rest area that are from in-state: 67.13%

Age distribution of people using the safety rest area:

	All People Entering Safety Rest Area	Percent
Senior Adults (over 60)	1,131	17.06%
Adults (16 - 59)	3,987	60.14
<u>Children (under 16)</u>	<u>1,512</u>	<u>22.80</u>
Total	6,630	100.00%

Average number of people per vehicle: 2.43

Average length of stay in safety rest area: 12.98 minutes (All Vehicles)
 11.81 minutes (Standard Vehicles)
 18.35 minutes (Oversize & Commercial Vehicles)

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

<u>Date</u>	<u>Day</u>	<u>Vehicles Entering Rest Area</u>	<u>Vehicles Not Entering Rest Area</u>	<u>One Way Traffic Totals</u>	<u>Average Percent Stopping at Rest Area</u>
August 10	Thurs.	419	8,660	9,079	4.62%
August 11	Fri.	456	9,171	9,627	4.74%
August 12	Sat.	702	11,712	12,414	5.65%
August 13	Sun.	688	14,356	15,044	4.57%
August 14	Mon.	<u>540</u>	<u>9,663</u>	<u>10,203</u>	<u>5.29%</u>
Total (surveys returned)		2,805	53,562	56,367	4.98%

Enfield Safety Rest Area

Hourly volume of vehicles entering Safety Rest Area

<u>Time</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>	<u>Sunday</u>	<u>Monday</u>	<u>Total</u>	<u>Percent</u>
8:00 - 9:00	34	--	48	18	41	141	5.05%
9:00 - 10:00	39	--	63	42	64	208	7.44
10:00 - 11:00	46	27	102	61	57	293	10.49
11:00 - 12:00	50	57	101	83	69	360	12.88
12:00 - 1:00	47	85	82	75	65	354	12.67
1:00 - 2:00	47	87	78	95	70	377	13.49
2:00 - 3:00	54	72	82	120	52	380	13.60
3:00 - 4:00	49	71	85	129	66	400	14.32
4:00 - 5:00	47	56	61	62	55	281	10.06
Totals	413	455	702	685	539	2,794	100.00%

Note: Total does not equal 2,805 for 'Vehicles Entering Safety Rest Area' due to recording errors on 'Time In' for 11 vehicles.

Type of vehicle entering Safety Rest Area

	<u>Vehicle Total</u>	<u>Average Length of Stay -- In Minutes</u>	<u>Number of People</u>	<u>(A)</u>	<u>(B)</u>
<u>Standard Vehicles</u>					
Cars	1,446	11.96	3,207	51.73%	4.57%
Pick-up or van	827	11.43	2,349	29.58	5.15
Other - Motorcycle	13	18.78	22	0.46	6.28
<i>Standard (average)</i>		<i>(11.81)</i>			
<u>Oversize Vehicles</u>					
Pick-up - van w/ rec. trailer	130	15.56	345	4.65	6.91
Recreational vehicles	47	19.57	114	1.68	9.36
Pick-up - van w/ other trailer	33	11.91	79	1.18	7.57
Car w/ recreational trailer	13	11.75	37	0.46	5.18
Car w/ other trailer	4	9.50	8	0.14	4.50
<u>Commercial Vehicles</u>					
Semi-tractor trailer trucks	253	21.66	302	9.05	6.20
Commercial trucks	24	12.65	37	0.86	2.28
Buses	6	8.40	105	0.21	4.11
<i>Oversize & Commercial (average)</i>		<i>(18.35)</i>			
Total	2,796	12.98	6,605	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 2,805 due to recording error for 9 vehicles "not recorded".
Number of people does not equal 6,630 due to recording errors for vehicle type.

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?

	All People Entering Safety Rest Area	Percent
Senior Adults (over 60)	1,131	17.06%
Adults (16 - 59)	3,987	60.14
Children (under 16)	1,512	22.80
Total	6,630	100.00%

Average number of people per vehicle: 2.43
 % Responding: 97.40%

Question 2: Reason for your travel?

	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	Total	Percent	Total	Percent	Total	Percent	Total	Percent
Vacation	1,325	50.71%	1,138	53.43%	176	82.24%	7	2.68%
Business	558	21.35	305	14.32	15	7.01	237	90.81
Other	730	27.94	687	32.25	23	10.75	17	6.51
Total	2,613	100.00%	2,130	100.00%	214	100.00%	261	100.00%
% Responding:	93.16%		93.18%		94.27%		92.23%	

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

	<u>All Vehicles</u>	<u>Standard Vehicles</u>	<u>Oversize Vehicles</u>	<u>Commercial Vehicles</u>
Miles				
Average	133.18	127.26	132.09	180.89
Median	108.36	107.73	107.19	185.00
% Responding:	74.65%	74.58%	75.77%	75.27%
Minutes				
Average	145.61	136.87	160.54	208.31
% Responding:	56.22%	56.43%	59.47%	51.94%

Question 4a: Where did your current trip start?

<u>All Vehicles</u>		
	<u>Total</u>	<u>Percent</u>
<u>Midwest U.S.</u>	<u>2,315</u>	<u>90.57%</u>
Minnesota	1,753	68.58
North Dakota	372	14.55
Wisconsin	46	1.80
Iowa	35	1.37
South Dakota	29	1.14
Illinois	28	1.10
Other	52	2.03
		(Michigan, Missouri, Ohio, Nebraska, Kansas, Indiana)
West U.S.	119	4.65
South U.S.	37	1.45
Northeast U.S.	<u>16</u>	<u>0.63</u>
Total U.S.	2,487	97.30%
Canada	68	2.66
Other	<u>1</u>	<u>0.04</u>
Total	2,556	100.00%
% Responding:	91.12%	

Question 4b: Where will your current trip end?

<u>All Vehicles</u>		
	<u>Total</u>	<u>Percent</u>
<u>Midwest U.S.</u>	<u>2,271</u>	<u>94.04%</u>
Minnesota	1,779	73.66
Wisconsin	170	7.04
Illinois	96	3.98
Iowa	88	3.64
North Dakota	32	1.33
South Dakota	8	0.33
Other	98	4.06
		(Michigan, Missouri, Ohio, Nebraska, Kansas, Indiana)
South U.S.	62	2.57
West U.S.	40	1.66
Northeast U.S.	<u>40</u>	<u>1.65</u>
Total U.S.	2,413	99.92%
Other	<u>2</u>	<u>0.08</u>
Total	2,415	100.00%
% Responding:	86.10%	

Enfield Safety Rest Area

Question 5: Please select your main reason for stopping at this rest area. (pick only one)

	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
Restroom	2,015	78.68%	1,695	81.14%	146	71.22%	169	65.25%
<u>Motorist Safety Value/Use (Net)</u>	<u>(397)</u>	<u>(15.50)</u>	<u>(307)</u>	<u>(14.69)</u>	<u>(41)</u>	<u>(20.00)</u>	<u>(46)</u>	<u>(17.76)</u>
Rest/Relax	209	8.16	168	8.04	24	11.71	16	6.18
Switch drivers	109	4.26	99	4.74	7	3.41	1	0.38
Check vehicle	47	1.83	21	1.00	8	3.90	18	6.95
Sleep	32	1.25	19	0.91	2	0.98	11	4.25
Telephone	67	2.62	25	1.20	2	0.98	40	15.45
Eat/Picnic	55	2.15	37	1.77	16	7.80	2	0.77
Water	18	0.70	16	0.77	0	0.00	2	0.77
Travel information	9	0.35	9	0.43	0	0.00	0	0.00
Total	2,561	100.00%	2,089	100.00%	205	100.00%	259	100.00%
% Responding:	91.30%		91.38%		90.31%		91.52%	

Question 6: Which of the following facilities were used by your party? (check all that apply)

(Base:)	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
	(2,552)		(2,085)		(207)		(252)	
Restrooms	2,430	95.22%	2,004	96.12%	185	89.37%	235	93.25%
Trash/Recycle receptacle	554	21.71	461	22.11	47	22.71	44	17.46
Vending machines	300	11.76	237	11.37	25	12.08	37	14.68
Map displays	289	11.32	241	11.56	32	15.46	16	6.35
Picnic table	214	8.39	174	8.35	26	12.56	13	5.16
Telephone	214	8.39	107	5.13	14	6.76	93	36.90
Outside water faucet	211	8.27	177	8.49	20	9.66	14	5.56
Walking trail	141	5.53	121	5.80	13	6.28	7	2.78
Pet exercise area	141	5.53	102	4.89	32	15.46	6	2.38
Play area	71	2.78	67	3.21	3	1.45	0	0.00
Other	63	2.47	39	1.87	14	6.76	9	3.57
% Responding:	90.98%		91.21%		91.19%		89.05%	

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

Enfield Safety Rest Area

Question 7: When traveling, which type of facility do you prefer to use? (pick only one)

	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
Safety rest areas	1,634	63.31%	1,376	65.43%	147	68.69%	107	41.47%
Combined safety rest areas & private/								
Commercial facilities	791	30.65	607	28.86	52	24.30	130	50.39
Private/Comm'l facilities	109	4.22	82	3.90	8	3.74	19	7.36
Public park	<u>47</u>	<u>1.82</u>	<u>38</u>	<u>1.81</u>	<u>7</u>	<u>3.27</u>	<u>2</u>	<u>0.78</u>
Total	2,581	100.00%	2,103	100.00%	214	100.00%	258	100.00%
% Responding:		92.01%		91.99%		94.27%		91.17%

Question 8: If private/commercial development were permitted at Minnesota's safety rest areas, which of the following types of business types would you prefer? (pick only one)

	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
No private/Comm'l development	817	32.33%	664	32.30%	82	39.23%	69	27.06%
Restaurant (fast food/take out)	514	20.34	397	19.31	37	17.70	78	30.59
Gas and vehicle services	510	20.18	456	22.18	42	20.10	11	4.31
Vending machines	427	16.90	344	16.73	33	15.79	48	18.82
Restaurant (sit down)	<u>259</u>	<u>10.25</u>	<u>195</u>	<u>9.48</u>	<u>15</u>	<u>7.18</u>	<u>49</u>	<u>19.22</u>
Total	2,527	100.00%	2,056	100.00%	209	100.00%	255	100.00%
% Responding:		90.09%		89.94%		92.07%		90.11%

Question 9: If this rest area were not available, where would you stop? (pick one only)

	<u>All Vehicles</u>		<u>Standard Vehicles</u>		<u>Oversize Vehicles</u>		<u>Commercial Vehicles</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
Next town	952	36.96%	824	39.20%	78	37.14%	47	18.29%
Next commercial facility	890	34.55	702	33.40	66	31.43	121	47.08
Safety Issues (Net)	(656)	(25.46)	(526)	(25.02)	(61)	(29.05)	(66)	(25.68)
Continue driving	443	17.20	368	17.51	38	18.10	36	14.01
Highway shoulder/Ramp	115	4.46	77	3.66	13	6.19	24	9.34
Interchange	98	3.80	81	3.85	10	4.76	6	2.33
Other	<u>78</u>	<u>3.03</u>	<u>50</u>	<u>2.38</u>	<u>5</u>	<u>2.38</u>	<u>23</u>	<u>8.95</u>
Total	2,576	100.00%	2,102	100.00%	210	100.00%	257	100.00%
% Responding:		91.84%		91.95%		92.51%		90.81%

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

<u>All Vehicles</u>		
Road Surface		
Mean	9.07	
(Base)	(2,496)	88.98 % Responding
Motorist Services		
Mean	8.19	
(Base)	(2,475)	88.24 % Responding
Roadside		
Mean	5.89	
Base	(2,460)	87.70% Responding

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

<u>All Vehicle</u>		
Road Signs and Traffic Signals		
Mean	8.77	
(Base)	(2,455)	87.52 % Responding
Rest Areas		
Mean	7.90	
(Base)	(2,476)	88.27 % Responding
Emergency Road Condition Information		
Mean	7.34	
(Base)	(2,409)	85.88 % Responding

QUESTIONS 12 & 13, COMMERCIAL TRUCK DRIVERS ONLY

Question 12: For short term stopping (less than 20 min.) do you prefer to use rest areas or commercial truck stops?

	<u>Commercial Vehicles</u>		<u>Commercial Trucks</u>		<u>Semi-Tractor Trailer Trucks</u>	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
Rest area	227	94.19%	11	84.62%	216	94.74%
Commercial truck stops	14	5.81	2	15.38	12	5.26
Total	241	100.00%	13	100.00%	228	100.00%
% Responding:	85.16%		54.17%		90.12%	

Question 13: Please identify your main reason for using interstate rest areas. (Choose one only... However, some checked all that applied.)

(Base)	<u>Commercial Vehicles</u> (243)		<u>Commercial Trucks</u> (15)		<u>Semi-Tractor Trailer Trucks</u> (228)	
	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>	<u>Total</u>	<u>Percent</u>
Restrooms	151	62.14%	9	60.00%	142	62.28%
Comm'l Truck Driver Safety Value/Uses (Net)	(98)	(40.33)	(8)	(53.33)	(90)	(39.47)
Rest/Relax	67	27.57	6	40.00	61	26.75
Check load	30	12.35	1	6.67	29	12.72
Mechanical check	21	8.64	1	6.67	20	8.77
Telephone	41	16.87	0	0.00	41	17.98
Update log book	20	8.23	0	0.00	20	8.77
Travel directions	3	1.23	0	0.00	3	1.32
Other	8	3.29	0	0.00	8	3.51
% Responding:	85.87%		62.50%		90.12%	

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



ENFIELD SAFETY REST AREA
USER SURVEY, AUGUST 10 -14, 1995

Day of the week: Thu. Fri. Sat. Sun. Mon. Time-in: Lic. State: MN
Vehicle type: 1 2 3 10 11 12 13 20 30 31 40 Time-out: (specify other)

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.

- 1. Number of people in your vehicle? senior adults (over 59): adults (16-59): children (under 16):
2. Reason for your travel? business vacation other
3. How far do you generally travel between stops? miles: time:
4. Where did your current trip start? City: State: Zip code:
5. Please select your main reason for stopping at this rest area. (pick only one, write letter here):
6. Which of the following facilities were used by your party? (check all that apply)
7. When traveling, which type of facility do you prefer to use? (pick only one, write letter here):
8. If private/commercial development were permitted at Minnesota's safety rest areas, which of the following business types would you prefer? (pick only one, write letter here):
9. If this rest area were not available, where would you stop? (pick only one, write letter here):
10. Please rank the importance of the following highway operation activities using a range of 1 to 10.
11. Please rank the importance of the following motorist services using a range of 1 to 10.

Additional Questions for Commercial Truck Drivers Only:
12. For short term stopping (less than 20 min.) do you prefer to use rest areas or commercial truck stops?
13. Please identify your main reason for using interstate rest areas. (Choose one only).

PLEASE RETURN SURVEY TO THE PEOPLE AT THE REST AREA EXIT RAMP. THANK YOU.
(Please use other side for additional comments)

Enfield Rest Area/TIC Usage Survey - Thursday, August 10, 1995

392	1	1	195	3	4	120	73	4	6	4	803
412	2	1	201	3	15	44	143	3	4	3	831
400	2	0	225	11	9	40	103	5	1	2	798
564	1	0	262	26	9	19	148	12	3	8	1052
496	4	4	269	8	6	11	131	7	3	2	941
616	3	3	305	23	13	32	136	9	1	3	1144
562	0	3	273	11	4	25	106	3	5	5	997
526	5	4	267	11	4	38	111	10	1	3	980
663	2	1	281	14	13	20	107	5	6	2	1114
4631	20	17	2278	110	77	349	1058	58	30	32	8660
4631	20	17	2278	110	77	349	1058	58	30	32	8660

Enfield Rest Area/TIC Usage Survey - Friday, August 11, 1995

											0
117	0	0	65	11	1	12	34	1	1	5	247
489	1	1	249	12	8	33	103	7	4	5	912
554	2	4	327	25	12	32	119	20	2	0	1097
651	4	2	339	32	10	28	130	12	1	7	1216
730	1	2	358	33	21	38	98	7	4	1	1293
897	7	1	422	37	13	43	99	13	4	2	1538
832	7	5	426	34	10	34	80	13	6	8	1455
850	5	1	392	22	14	31	73	1	17	7	1413
5120	27	16	2578	206	89	251	736	74	39	35	9171
5120	27	16	2578	206	89	251	736	74	39	35	9171

Enfield Rest Area/TIC Usage Survey - Saturday, August 12, 1995

427	4	1	231	33	4	11	38	4	4	2	759
586	5	1	307	48	2	12	39	11	1	2	1014
786	18	3	411	66	15	9	48	7	10	5	1378
954	9	1	468	121	7	6	57	5	5	5	1638
900	16	1	451	89	10	9	46	9	5	3	1539
854	20	4	420	75	12	11	43	17	1	6	1463
757	9	11	382	60	19	6	52	13	0	3	1312
773	6	2	373	51	8	9	44	8	3	4	1281
814	6	0	397	51	5	4	40	7	2	2	1328
6851	93	24	3440	594	82	77	407	81	31	32	11712
6851	93	24	3440	594	82	77	407	81	31	32	11712

Enfield Rest Area/TIC Usage Survey - Sunday, August 13, 1995

306	2	0	147	11	0	8	30	3	1	3	511
512	2	0	298	18	6	7	39	8	1	0	891
832	7	4	442	27	7	5	50	10	10	12	1406
940	7	2	482	44	2	4	42	20	8	6	1557
1054	13	0	490	82	1	2	50	18	1	5	1716
1132	8	1	616	95	9	3	34	19	1	5	1923
1247	15	1	681	125	7	3	79	27	4	13	2202
1470	18	1	800	158	2	1	68	15	2	13	2548
899	4	0	501	132	1	0	44	15	0	6	1602
8392	76	9	4457	692	35	33	436	135	28	63	14356
8392	76	9	4457	692	35	33	436	135	28	63	14356

Enfield Rest Area/TIC Usage Survey - Monday, August 14, 1995

451	2	0	204	4	4	117	128	5	2	4	921
482	2	2	260	12	20	36	149	9	2	2	976
502	1	2	261	18	18	19	155	16	2	2	996
603	3	2	291	17	21	20	125	14	0	10	1106
613	3	1	261	22	10	29	143	10	0	4	1096
624	1	3	264	26	15	28	147	13	0	3	1124
672	3	3	325	12	14	32	109	6	1	2	1179
650	3	1	309	21	13	17	121	14	1	2	1152
615	4	5	312	16	5	21	108	20	4	3	1113
5212	22	19	2487	148	120	319	1185	107	12	32	9663
5212	22	19	2487	148	120	319	1185	107	12	32	9663