

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 motorist 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 reveled 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.

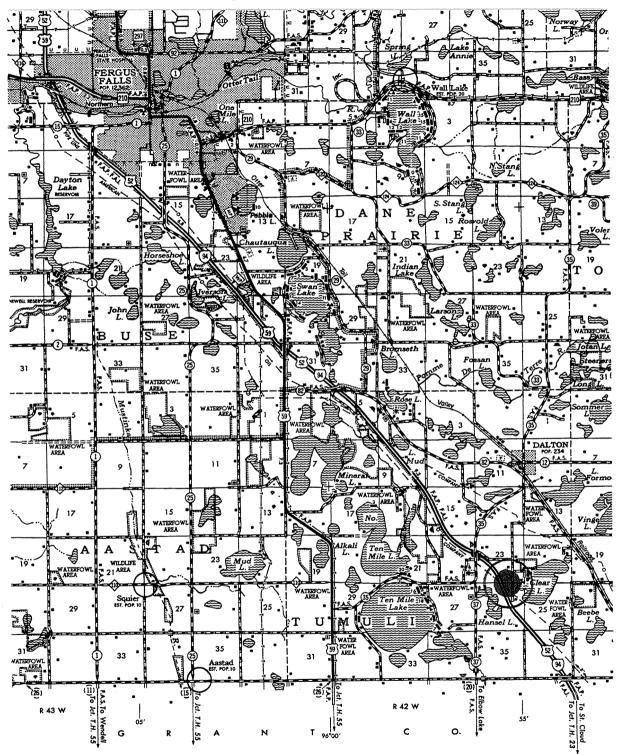
The Hansel Lake Safety Rest Area facility, built in 1968, is deficient in several areas, including codes, building capacities, roadway and parking geometrics. This facility is under study for reconstruction and rehabilitation. The information collected in the 1993 survey will aid in the evaluation of 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.

OR KIMM

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  $8 \frac{1}{2} \times 14$ " survey has been reduced to fit this page.)

	ay of week: Thu	ırs: Fri.	Sat	. Sun.	Mon.	١	/ehicle T	ype: 1 2	3	10	11 12	2 13	20	30	31	40
Li	icensing State: N	1N		(specify of	ther)			Time Time O								
_					-											
Th Itil	<b>ar Motorist:</b> e Minnesota Depa ized and what fac fety Rest Area fac	lities shou	ld be p	provided t	o satisfy your	needs. (										
	Number of peo					•		•								
2.	Reason for you	r travel?	bu	siness: _		_ vacat	ion:								<u> </u>	
	How far do you	-			•						ie:			-		
١ <u>.</u>	Please check y	our main										- 4				
	<ul><li>A. rest room</li><li>B. eat/picnic</li></ul>			rest/relax water			elephone witch dri				ravel					
	C. sleep				ad/equipme					0. 0		(	oleas	e spe	city)	
j.	How many peo	ple in you	ur part	ty used th	ne following	?										
	rest room facilit					drin	king wate	er supply	:							
	telephone:		-													
	Which of the fol	-					Jania ah	- 14 - 4								
	<ul> <li>picnic table</li> <li>trash reception</li> </ul>				•	•										
	•						•									
	pet exercis	e area	L 1													
	What additional When traveling, A. interstate r	facilities which fa est areas	would cility o	d you like do you pi combil	(P to see in sa	? (pick d	st areas? one, write	e letter he	ere)							
5.	What additional When traveling, A. interstate r B. private corr If private and co types would you	facilities which fa est areas imercial f ommercia u prefer?	would cility o cility o cilitie facilitie al deve (pick	d you like do you pi . combin es elopment one, write	(P to see in sa refer to use? ned public r t were perm e letter here	afety res ? (pick o rest area itted at :	st areas? one, write a/private safety re	e letter he commerc st areas,	ere) cial f whic	acilit	y the fo	llow	ng t	ousin		
3.	What additional When traveling, A. interstate r B. private com If private and co	facilities which fa est areas mercial f ommercia u prefer? achines	would cility of acilitie al deve (pick C	d you like do you pr . combines elopment one, write . restau	(P e to see in st refer to use? ned public r t were perm e letter here rant (fast foo	afety res ? (pick of rest area itted at s ) od/take	st areas? one, write a/private safety re	e letter he commerc st areas,	ere) cial f whic	acilit	y the fo	llow	ng t	ousin		
	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange	facilities which fa est areas imercial f ommercia u prefer? achines sit down) ire not av	would cility of facilitie al deve (pick C D ailable	d you like do you pr combines elopment one, writt restaut gas an e, where C. h	(p e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho	afety res ? (pick or rest area witted at s ) od/take ervices have sto ulder/ra	t areas? one, write //private safety re: out) pped? (pmp	e letter he commerc st areas, E. no pick one,	ere) cial f whic priv write	acilit ch of ate/c	y the fo comm er her	ollow ercia	ng t I de	ousin velog	ome	
0.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia	facilities which fa est areas inmercial f prefer? achines sit down) re not av	would cility of facilitie al deve (pick C D ailable facility	d you like do you pr . combines elopment one, writ . restaur . gas an c. h c. h y D. n	(p to see in se refer to use? and public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho iext town	afety res ? (pick or rest area itted at a ) od/take ervices have sto ulder/ra	bt areas? one, write /private safety res out) pped? (p mp c	e letter he commerc st areas, E. no bick one, other	ere) bial f whic priv write	acilit ch of ate/c e lett	y the fo comm er her	ercia	ng t i de	velor	ome	n
0.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange	facilities which fa est areas mercial f prefer? achines sit down) ere not av e service avel infor	would cility c lacilitie (pick C p ailable facility matio	d you like do you pro- combines elopment one, write restaut gas an e, where C. h ( D. n n would )	(p to see in se refer to use? and public r t were perm e letter here rant (fast foo d vehicle se would you h ighway sho uext town you like ava	afety res ? (pick of rest area itted at a pod/take ervices have sto ulder/ra ilable at	tareas? one, write a/private safety res out) pped? (p mp c safety re	e letter he commerc st areas, E. no bick one, bither est areas	ere) cial f whic priv write	acilit ch of ate/c e lett	y the fo comm er her	ercia ecify)	ng t I de	velop		n
0.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia What types of tr Do you think sat	facilities which fa est areas immercial f prefer? achines sit down) re not av e service avel infor fety rest a	would cility of acilitie al deve (pick C C D ailable facility matio	d you like do you pr . combines elopment one, writ . restaur . gas an c. h y D. n n would onstruction	(P e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho uext town you like ava on and oper	afety res ? (pick of rest area itted at a ) od/take of ervices have sto ulder/ra ilable at ration ar	safety res out, write a/private safety res out) pped? (p mp c safety re c safety re c safety re	e letter he commerc st areas, E. no bick one, bither est areas d use of r	ere) bial f whic priv write	acilit ch of ate/c e lett	y the fo comm er her	ercia ecify)	ng t I de	velop		n
1. 2.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia What types of tr Do you think sat	facilities which fa est areas immercial f prefer? achines sit down) re not av service avel infor fety rest a u yes	would cility of acilities al devo (pick C D ailable facility matio	d you like do you pro- combines elopment one, write restaut gas an e, where C. h ( D. n n would to onstruction	(p e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho uext town you like ava on and oper ] no ERCIAL 1	afety res ? (pick of rest area itted at a ) od/take ervices have sto ulder/ra illable at ration ar	tareas? one, write a/private safety res out) pped? (p mp c safety re safety re c safety re c s safety re c s s s s s s s s s s s s s s s s s s	e letter he commerces st areas, E. no bick one, bither est areas d use of r	ere) cial f which priv write ? noto	acilit ch of ate/c e lett (ple	y the fo comm er her ase sp	ercia ecify)	ng t il de 	velop ral ta		n
0. 1. 2.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia What types of tr Do you think sat money ?	facilities which fa est areas immercial f prefer? achines sit down) re not av estavel infor fety rest a up ss stalls wh.	would cility of acilities al deve (pick C D ailable facility matio	d you like do you pro- combines elopment one, writt restaut gas an a, where C. h ( D. n n would to onstruction COMM	(p e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho uext town you like ava on and oper ] no ERCIAL 1	afety res ? (pick of rest area itted at a ) od/take ervices have sto ulder/ra illable at ration ar	t areas? one, write a/private safety re- out) pped? (p mp c safety re safety re e a good	e letter he commerces st areas, E. no bick one, bither est areas d use of r	ere) cial f whic priv write ? noto  s (pi	acilit ch of ate/c e lett (ple rist S	y the fo comm er her asse sp state a	erciz ecity) and F	ng t i de fede	velop ral ta		n
0. 1. 2.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia What types of tr Do you think sat money ? If truck parking A. continue driv B. next town	facilities which fa est areas inmercial f prefer? achines sit down) re not av estavel infor fety rest a stalls wt. ing	would cility of acilities al devic (pick C D D ailable facility matio	d you like do you pro- combines elopment one, writt gas an a, where C. h ( D. n n would ) onstruction COMM II and /or D. rest a	(p e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho lext town you like ava on and oper no <b>ERCIAL 1</b> not availab	afety res ? (pick of rest area witted at a pod/take of revices have sto ulder/ra wilable at ration ar <b>FRUCE</b>	t areas? one, write a/private safety re- out) pped? (p mp c safety re safety re e a good	e letter he commerce st areas, E. no bick one, bick one,	ere) cial f whic priv write ? noto  s (pi	acilit ch of ate/c e lett (ple rist S	y the fo comm er her ase sp	erciz ecity) and F	ng t i de fede	velop ral ta		n
. 0. 1. 2	What additional When traveling, A. interstate r B. private corr If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercial What types of tr Do you think sat money ? If truck parking A. continue driv B. next town C. commercial f	facilities which fa est areas inmercial f prefer? achines sit down) re not av avel infor fety rest a u yes stalls wt. ring acility	would cility of cacilitie al deve (pick C D ailable facility matio area c	d you like do you pro- combines elopment one, writt gas an c. h y D. n n would to onstruction COMM Il and /or D. rest a E. rest a F. highw	(# e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho lext town you like ava on and oper ] no ERCIAL 1 not availab rea car lot rea exit/entr vay shoulde	afety res ? (pick of rest area witted at : ) ) od/take of ervices have sto ulder/rau wilable at ration ar <b>FRUCH</b> le, wher rance ra	tareas? one, write a/private safety res out) pped? (p mp c safety re safety re safety re e a good C OPEF e would mp shou	e letter he commerce st areas, E. no bick one, bick one,	ere) bial f whic priv write ? noto ? (pi	acilit ch of ate/c e lett (ple rist S	y the fo comm er her ase sp State a State a	ercia ecify) and F	ng t il de ede etter	velop ral ta	)	
0. 1. 2.	What additional When traveling, A. interstate r B. private com If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercia What types of tr Do you think sat money ? If truck parking A. continue driv B. next town	facilities which fa est areas inmercial f prefer? achines sit down) re not av avel infor fety rest a u yes stalls wt. ring acility	would cility of cacilitie al deve (pick C D ailable facility matio area c	d you like do you pro- combines elopment one, writt gas an c. h y D. n n would to onstruction COMM Il and /or D. rest a E. rest a F. highw	(# e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho lext town you like ava on and oper ] no ERCIAL 1 not availab rea car lot rea exit/entr vay shoulde	afety res ? (pick of rest area witted at : ) ) od/take of ervices have sto ulder/rau wilable at ration ar <b>FRUCH</b> le, wher rance ra	tareas? one, write a/private safety res out) pped? (p mp c safety re safety re safety re e a good C OPEF e would mp shou	e letter he commerce st areas, E. no bick one, bick one,	ere) bial f whic priv write ? noto ? (pi	acilit ch of ate/c e lett (ple rist S	y the fo comm er her ase sp State a State a	ercia ecify) and F	ng t il de ede etter	velop ral ta	)	
0. 1. 2. 3.	What additional When traveling, A. interstate r B. private corr If private and co types would you A. vending ma B. restaurant ( If this facility we A. interchange B. commercial What types of tr Do you think sat money ? If truck parking A. continue driv B. next town C. commercial f	facilities which fa est areas immercial f prefer? achines sit down) re not av estavel infor fety rest a uses stalls wh. fing acility r current	would cility of acilities al devo (pick C D D ailable facility matio area c	d you like do you pro- combines elopment one, write gas an a, where C. h on would to onstruction COMM Il and /or D. rest a E. rest a F. highw iginate?	(# e to see in se refer to use? ned public r t were perm e letter here rant (fast foo id vehicle se would you h ighway sho lext town you like ava on and oper ] no ERCIAL 1 not availab rea car lot rea exit/entr vay shoulde	afety res ? (pick of rest area itted at a ) od/take of ervices have sto ulder/ration ar ration ar <b>FRUCH</b> wher rance ra r/ramp	t areas? one, write a/private safety res out) pped? (p mp c safety re e a good C OPER e would mp shou	e letter he commerce st areas, E. no bick one, bick one,	ere) bial f whic priv write ? noto ? (pi	acilit ch of ate/o e lett (ple rist S	y the fo comm er her asse sp itate a itate a	ercia ecity) and F	ng t i de fede	velop ral ta here	)	

surveys distributed intermittently)

#### 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,

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>	Children (under 16)
	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

		Vehicles	Vehicles	Daily	Ave. Pct.
		Entering	Not Entering	Traffic	Stopping at
Date	<u>Day</u>	<u>Rest Area</u>	<u>Rest Area</u>	<u>Totals</u>	<u>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>	Monday	<u>403</u>	2,451	2,854	<u>14.1%</u>
Totals (sur	veys returned)	2,035	12,934	14,969	13.6%

Time	<u>Thurs.</u>	<u>Fri.</u>	<u>Sat.</u>	<u>Sun.</u>	Mon.
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

#### Time of vehicles entering Safety Rest Area

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

		Average			
	Vehicle	Length	Number		
Non-Commercial Vehicles	<u>Total</u>	<u>of Stay*</u>	of People	<u>(A)</u>	<u>(B)</u>
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> 12.90	<u>61</u>	<u>0.44%</u> 100%	
		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;

<u>Commercial Vehicles</u>: Representing commercial trucks, semi-tractor trailers, and buses.

#### Question 1: Number of people in your vehicle?

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

#### Question 2: Reason for your travel?

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

	Non-Commercial <u>Vehicles</u>	Average Length of Stay <u>Minutes</u>	Commercial <u>Vehicles</u>	Average Length of Stay <u>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
No response	<u>968</u>		<u>140</u>	
Total	1,800		235	

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

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

	Non-Commercial Vehicles	Percent	Commercial <u>Vehicles</u>	Percent
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
No response	<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?

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

	Number of <u>Responses</u>	Percent
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 6: Which of the following facilities were used by you party?

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

	Non-Commercial <u>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.

	Commercial <u>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

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

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

	Non-Commercial Vehicles	Percent	Commercial <u>Vehicles</u>	Percent
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
No response	<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)

	Non-Commercial <u>Vehicles</u>	Percent	Commercial <u>Vehicles</u>	Percent
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
No response	<u>276</u>	<u>15.33</u>	<u>49</u>	<u>20.85</u>
Total	1,800	99.99	235	100.00

	Non-Commercial <u>Vehicles</u>	Percent	Commercial <u>Vehicles</u>	Percent
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
No response	<u>239</u>	<u>13.28</u>	<u>49</u>	<u>20.85</u>
Total	1,800	100.00	235	100.00

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

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

(Check only one)		
	Commercial <u>Vehicles</u>	Percent
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
No response	<u>58</u>	<u>24.68</u>
Total	235	100.01

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

#### Question 14: Where did your current trip originate?

	Commercial <u>Vehicles</u>	Percent
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
No response	<u>64</u>	<u>27.23</u>
Total	235	99.98

	Commercial <u>Vehicles</u>	Percent
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
No response	<u>63</u>	<u>26.81</u>
Total	235	99.99

#### Question 15: Where will your current trip end?

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

	Commercial <u>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

Da	ay of week: Thu	rs: Fri.	Sat.	Sun.	Mon.		Vehicle	Type: 1 2 3	10 11	12	13 20 30	31 40
Lie	censing State: M	N				Time In:						
			(s	pecify oth	er)	Time Out:					i i i i i i i i i i i i i i i i i i i	
The utili	ar Motorist: Minnesota Depa zed and what faci ety Rest Area faci	ities shou	ld be pro	vided to	satisfy your	needs						
1.	Number of peop	ole in you	ır vehicl	e? sei	nior adults	(over (	60)	adults (16-59	)0	childre	en (under	16)
2.	Reason for your	travel?	busii	ness:		_ vac	ation:		pers	sonal:	- 	
3.	How far do you	generally	ravel	betweer	n stops?	mile	es		time	:		
	Please check ye	-										
	A. rest room		D. res	st/relax		G.	telepho	ne	I. tra	vel in	formation	
	B. eat/picnic						switch o	driver	J. otl	her _	(please s	
_	C. sleep				d/equipme						(please s	pecny)
5.	How many peop rest room faciliti				e tollowing		nkina w	ater supply:				
	telephone:			-		un						
6.	Which of the fol			vere use	ed by your	partv?	<b>)</b>					
	picnic table	-				-		shelter				
	trash recep	tacle	🗆 sta	ate map	display		telepho	ne				
	pet exercise	e area	□ ot	her		lease s		- Manin				
7.	What additional	facilities	would v	vou like				s?				
, ,				, • • • • • • •								
8.	<ul><li>When traveling,</li><li>A. interstate re</li><li>B. private com</li></ul>	est areas	C.	combin	ed public	rest ar	ea/privat				_	
9.	If private and co types would you <b>A.</b> vending ma <b>B.</b> restaurant (	ı prefer? chines	(pick or <b>C.</b>	ne, write restaura	letter here ant (fast fo	) od/tak	e out)				owing bus	
10.	If this facility we	re not av	ailable,	where v	vould you l	nave s	topped?	(pick one, wri	te lette	r here	)	
	A. interchange	)		<b>C.</b> hi	ghway sho	ulder/	ramp					
11.	<ul><li>B. commercial</li><li>What types of tr</li></ul>		-			ilable	at safetv	other				
	Do you think sat											
	money?	🗆 yes			no							
			С	OMM	ERCIAL	TRUC	K OPI	ERATORS				
13.	. If truck parking	stalls wh	ere full	and /or	not availed	le, wh	ere woul	d you stop? (p	oick on	e, writ	e letter he	re)
	A. continue driv	ing	D	. rest ar	ea car lot			<b>G.</b> other				
	B. next town		E	. rest ar	ea exit/ent	rance	ramp sh	oulder	4)	please s	specify)	
	C. commercial I	acility	F.	highw	ay shoulde	r/ramp	0					
14.	. Where did you	r current	trip orig	inate?	City			State			Zip Code	
15.	Where will you	r current	trip end	?	City			State			Zip Code	
16.	. In your opinion	, what is	the valu	ue of sat	ety rest are	eas? _	·					
	••••••••••••••••••••••••••••••••••••••											
L												

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

		CARS	,	PIC	K-UPS, V	ANS		SEMI'S			OTHER	
HOUR	car only	w/rec. trailer	w/other trailer	p-up/van only	w/rec. trailer	w/other trailer	Commer. TRUCKS	tractor trailers	RV'S	BUS	(motorcycles)	TOTAL
	1	2	3	10	11	12	13	20	30	31	40	
8 - 9	58		l	30	3	6	8	23	5			134
9 - 10	104	1	1	36	3	2	12	37	ମ	l	]	20)
10 - 11	104	2	2	4]	3	4	. 2	41	-			207
11 - 12	126	3		60	2	3	9	419	5	3 <b> </b>		258
12 - 1	139	3	j	63	3		2	63	6	1	1	288
, <b>1 - 2</b>	122	1	1 -	48	Ц	7	7	64	4	·	2	260
2 - 3	135	_	2	55	3	4	3	63	6		2	273
3 - 4	126	<del>~</del>		80	7	6	8	58	6	ۍ		294
4 - 5	136		2	56	6	7	5	45	Ŋ		1	261
TOTAL	1050	10	10	474	34	4D	56	449	39	7	7	2176

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

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

 $c_{Q, \sigma}$ 

		CARS		PIC	K-UPS, V	ANS		SEMI'S	]		OTHER	
HOUR	car only	w/rec. trailer	w/other trailer	p-up/van only	w/rec. trailer	w/other trailer	Commer. TRUCKS	tractor trailers	RV'S	BUS	(motorcycles)	TOTAL
	1	2	3	10	11	12	13	20	30	31	40	
8 - 9	63	× × × × × × × × × × × × × × × × × × ×		125		3	3	21		1		119
9 - 10	101		1 I	41	2	-	5	25	4		-	187
10 - 11	110	1	<b>.</b>	45	3		4	64	ک	1		રઝ
11 - 12 ້	200	алана     		90	L	and and a second	- 5	41	5	3	4	358
12 - 1	177	~	<b>~</b>	105	6	14	5	51	3	-	-	301
1 - 2	189	l	2 .	94	le	9	1	67	13			388
2 - 3	209	2	4	91	B	Ø	3	49	4	l	3	382
3 - 4	212	l	-	101	4	14	I	60	9	2	2	466
<u>4</u> - 5	211	2	l	111	2	G	3	38	9	4	2	451 窗
TOTAL	1592	8	8 el.ra\matrix	714	32	(FS	Zo	416	52	12	11	2946

.

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

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

	CARS			PIC	K-UPS, V	ANS		SEMI'S			OTHER	]
HOUR	car oniy	w/rec. trailer	w/other trailer	p-up/van only	w/rec. trailer	w/other trailer	Commer. TRUCKS	tractor trailers	RV'S	BUS	(motorcycles)	TOTAL
	1	2	3	10	11	12	13	20	30	31	40	
8 - 9	99	-	2	44	2	1	4 ÷	31	3	-	2	193
9 - 10	196	~		[00	5	8	4	35	5		-	313
10 - 11	182	ι		BC;	5	Ŷ	2	42	3	2	2	335
11 - 12	193	-	2	61	5	5	3	29	1		_	345
12 - 1	210	2	3	78	4	[7	3	20	1	L	3	358
1 - 2	192	2	3	-716	Ŋ	16	5	58	14	l	6	381
2 - 3	inte	1	6	18	Ŗ	19	Ĺ	34	B	2	1	329
3 - 4	156	-	3	108	B	10	2	36	1	5	1	287
4 - 5	156	4	1	62	2	11	4	26	2		/	269
TOTAL	1520	9	[9]	697	39 <del>182</del>	107 X4	26 <del>325</del>	325 40	46	[]	16	2810

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

مر ب



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

HOUR	car only	CARS w/rec. trailer	w/other trailer	PIC p-up/van only	X-UPS, V w/rec. trailer	ANS w/other trailer	Commer. TRUCKS	SEMI'S tractor trailers	RV'S	BUS	OTHER (motorcycles)	TOTAL
	1	2	3	10	11	12	13	20	30	31	40	
8 - 9	45	Ø	0	16	5	3	2	8	3	0	1.	83
9 - 10	88	0		42	2	l	4	20	4	0	2	164
10 - 11	124	3	0	59	15	4	.0	14	3	i i	0	213
11 - 12	142	3	2	65	B	15	2	17	5	2	1	२५२
12 - 1	206	3		89	4	N	3	22	5	1	5	341
1 - 2	225	/	3	104	9	6	9	20	7	/	1	377
2 - 3	232	1	2	103	8	7		18	5		4-	381
3-4 0	273	0	1	106	8	5	2	2/	7	4	3	430
4 - Xyd U YD TOTAL	186	2	2	77	3	5	1	22	le		G	310
, TOTAL	1521	13	12	(elel	52	38	15	162	45	9	23	व्हडा
KW WP file: \surveys.ra\93hansel.ra\matrix bill grand watch usilish 10511.10513.000												

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

		CARS		PIC	K-UPS, V	ANS		SEMI'S			OTHER	
HOUR	car only	w/rec. trailer	w/other trailer	p-up/van only	w/rec. trailer	w/other trailer	Commer. TRUCKS	tractor trailers	RV′S	BUS	(motorcycles)	TOTAL
	1	2	3	10	11	12	13	20	30	31	40	
8 - 9	85	D	1	32		5	4	19	1	Ó	5	153
9 - 10	97		}	47	and the second	-	7	40	2	1	-	195
10 - 11	157	1	0	72	6	2	5	35	5	0	6	289
11 - 12	158	D	N	89	B	1	7	43	6	1	3	318
12 - 1	153	D	1	79	3	7	B	57	1	N	Ζ	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	Ś	Ø	9	55	6	0	l	301
4 - 5	146	6	2	80	7	6	10	48	Ŋ	1	Ô	305
TOTAL	1247	d	9	608	35	44	58	379	38	5	26	2451
KW WP file: Wate			el.ra\matrix 3 Havt	L	165	5152	80	F	ind 1	651	7300	

ť