DEPARTMENT Mn/DOT-Environmental Services Room 715

Office Memorandum

OT

F. C. Marshall

Technical Services Division

DATE: 10-27-80

. FROM

: James S. Reierson \

Site Development Section

PHONE: 296-5773

SUBJECT:

190 Rest Area Usage Survey Highforest Rest Area E.B. Blue Earth Rest Area E.B.

A five day rest area usage survey was conducted at the two above mentioned rest areas on I90. These two rest area facilities are 85 miles apart, and the survey was designed to provide information concerning user patterns, types of traffic and percent of vehicles stopping at each rest area. In this way, actual usage data can support the determination for another rest area within the 85 mile interval. It should be noted that the proposed E.B. Hayward rest area facility lies within this 85 mile travel interval between the Blue Earth and Highforest rest areas.

Based on the usage survey results, it is apparent that an additional safety rest area is warrented as originally identified in the Comprehensive Interstate Safety Rest Area program. The survey results reveal the following.

1. The percent of vehicles stopping at each rest area during the five days averaged:

Blue Earth E.B. 16.9% Highforest E.B. 12.8%

This can be compared to the 12.0% figure used in the 20 year design calculations. If the proposed Hayward facility were eliminated from the I90 E.B. system, the Blue Earth and Highforest rest areas would be subjected to severe user impacts and require upgrading and possible expansion in the near future.

- 2. Of the vehicles entering each rest area approximately 75% were from out of state.
- 3. Total usage, traffic volumes and percent stopping were not affected by last years fuel crisis.
- 4. Average time in rest areas and persons per vehicle have not changed.

Also included are some of the numerous comments received during the survey period. One comment often received at the Highforest rest area was the long drive, 85 miles, from the Blue Earth rest area to the Highforest rest area. Again, these comments reinforce the need for an intermediate rest area facility near Hayward.

Motorists were also asked if the gas shortage affected their summer vacation plans, 437 said yes and 1,017 said no. It would seem that people will adjust to the gas situation, providing time, money and resources required for vacations, tourism, recreation and family travel.

cc: R. Braun - R. McDonald

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STATE OF MINNESOTA

DEPARTMENT 'Mn/DOT-Environmental Services Room 715

Office Memorandum

TO

: Jim Reierson

Site and Development Unit

DATE: 9-23-80

PROM

: Robert Doerr

Sr. Highway Technician

PHONE: 296-7588

SUBJECT: Highforest Rest Area Usage Study, 190 Eastbound

This rest area usage study was done to provide information on current use patterns. This information will be used in spacing rest areas and providing the proper numbers of facilities.

The information is obtained by giving each vehicle entering the rest area a questioneer which is answered during their stay in the area. The questioneer is then collected as the vehicle leaves the area. The study is preformed for 5 consecutive days Thursday-Monday 8 hours per

The mainline traffic is counted and classified according to type of vehicle during the same time period. This allows us to derive averages for stopping and length of stay for each type of vehicle using the rest

The following information was collected:

SUMMARY

Date: July 31st - August 4th, 1980

Hours: 9 A.M. to 5 P.M.

Weather: Warm and partly cloudy, except for showers Monday morning

Total vehicles on mainline Eastbound 9,383
Vehicles entering rest area 9 A.M. to 5 P.M. 1,200
Percent of vehicles stopping 9 A.M. to 5 P.M. 12.8%

Total people using rest area 9 A.M. to 5 P.M. 3,149
Average persons per vehicle 2.6
Average time in rest area 15.6 min.

PURPOSE FOR ENTERING AREA

Use rest rooms	60.7%
Just to Rest	11.2%
Eat/Picuic	10.0%
Water	6.6%
Other	5.5%
Telephone	2.1%
Use Refuse Containers	1.9%
Use Travel Information Board	1.6%
Dispose of Sewage	0.4%

PERCENT OF PEOPLE USING

Rest Rooms	77.6%
Drinking Water	43.3%

PERCENT OF VEHICLES USING

Refuse Containers	25.2%
Picnic Tables	13.8%
Travel Information	8.4%
Picnic Shelter	6.5%
Telephone	5.3%
Other	5.1%
Electricity	0.5%

NUMBER OF VEHICLES THAT STOPPED 9 A.M. to 5 P.M.

Date	Day	Vehicles Entering	Out of State	Vehicles on Mainline	Percent Stopping
July 31	Thur.	246	200	1,675	14.6
Aug. 1	Fri.	239	193	1,956	12.2
Aug. 2	Sat.	252	198	1,921	13.1
Aug. 3	Sun.	216	165	2,007	10.8
Aug. 4	Mon.	$\frac{247}{1200}$	$\frac{175}{931}$	$\frac{1,824}{9,383}$	$\frac{13.5}{12.8}$

TIME VEHICLES ENTERED AREA

•	Thur.	Fri.	Sat.	Sun.	Mon.
9-10	17	27	21	23	24
10-11	31	32	27	30	32
11-12	35	22	53	20	25
12-1	36	31	51	38	39
1-2	31	31	20	33	41
2-3	36	35	33	24	34
3-4	28	37	26	1.9	25
4-5	32	24	21	29	2.7
	246	239	252	216	247

AVERAGE INFORMATION FOR EACH TYPE VEHICLE THAT ENTERED AREA

Type Vehcile	Average Length of Stay	Average No. People	Λ	В
Car	13.8 min.	2.6	62.3	11.9
Car with camper trailer	19.3 min.	3.8	3.8	24.6
Car with house trailer	23.3 min.	1.7	1.8	17.6
Car with boat trailer	13.0 min.	2.8	0.3	9.3
Car with other trailer	7.4 min.	3.8	0.7	16.3
Single unit truck	16.5 min.	2.9	10.8	13.8
Truck with camper	19.4 min.	2.9	1.3	15.8
Truck with trailer	10.9 min.	3.1	0.8	11.1
Truck (commercial)	10.7 min.	1.2	1.3	8.9
Semi	16.2 min.	1.3	7.4	9.7
Motorhome	27.5 min.	3.1	5.2	25.9
Bus	25.5 min.	22.5	0.2	8.0
Other	21.3 min.	1.6	4.3	20.7
	15.6 min.	2.6	100%	12.8

A refers to percentage of total number of vehicles using rest area

Vehicles with Pets

5.4%

65 vehicles containing 92 pets

Vehicles stopping at other rest areas

56%

Vehicles spending there vacation in Minnesota 27%

Vehicles who's plans had been affected by the gas shortage

30%

Vehicles on Vacation that were camping

13.5%

B refers to percentage of this vehicle that stopped in rest area, out of total number of vehicles that passed this rest area.

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Office Memorandum

DEPARTMENT Mn/DOT-Environmental Services
Room 715

TO

Jim Reierson

Site and Development Unit

DATE: 9-23-80

FROM

: Robert Doerr

Sr. Highway Technician

PHONE: 296-7588

SUBJECT: Blue Earth Rest Area Usage Study, 190 East Bound

This rest area usage study was done to provide information on current use patterns. This information will be used in spacing rest areas and providing the proper numbers of facilities.

The information is obtained by giving each vehicle entering the rest area a questioneer which is answered during their stay in the area. The questioneer is then collected as the vehicle leaves the area. The study is preformed for 5 consecutive days Thrusday - Monday 8 hours per day.

The mainline traffic is counted and classified according to type of vehicle during the same time period. This allows us to derive averages for stopping and length of stay for each type of vehicle using the rest area.

The following information was collected:

SUMMARY

Date: July 31st - August 4th, 1980

Hours: 9 a.m. to 5 p.m.

Weather: Warm and partly cloudy, except for showers monday morning
Total vehicles on mainline East Bound 6,582
Vehicles entering rest area 9 a.m. to 5 p.m. 1,112
Percent of vehicles stopping 9 a.m. to 5 p.m. 16.9%
Total people using rest area 9 a.m. to 5 p.m. 2,808
Average persons per vehicle 2.5
Average time in rest area 19.3 min.

PURPOSE FOR ENTERING AREA

Use rest rooms	53.8%
Just to Rest	14.3%
Eat/Picnic	9.3%
Water	8.4%
Other	5.6%
Use Travel Information Board	2.8%
Telephone	2.6%
Use Refuse Containers	2.6%
Dispose of Sewage	0.6%

PERCENT OF PEOPLE USING

Rest Rooms	83.2%
Drinking Water	52.2%

PERCENT OF VEHICLES USING

Refuse Containers	28.4%
Picnic Tables	16.1%
Picnic Shelter	11.3%
Other	10.2%
Travel Information	9.1%
Telephone	4.8%
Electric Outlet	0.5%

NUMBER OF VEHICLES THAT STOPPED 9 A.M. to 5 P.M.

Date	Day	Vehicles Entering	Out of State	Vehicles on Mainline	Percent Stopping
July 31	Thur.	221	165	1247	17.7
Aug. 1	Fri.	239	184	1446	16.5
Aug. 2	Sat.	230	187	1232	18.7
Aug. 3	Sun.	227	153	1393	16.3
Aug. 4	Mon.	195	146	1264	15.4
<u> </u>		1112	835	6582	16.9

TIME VEHICLES ENTERED AREA

	Thur.	Fri.	Sat.	Sun.	Mon.	
9-10	16	21	1.7	1.9	15	
10-11	27	38	36	23	21	
11-12	23	38	38	30	39	
12-1	33	41	33	29	43	
1-2	37	27	28	33	14	
2-3	32	29	33	38	21	

(cont.)

	Thur.	Fri.	Sat.	Sun.	Mon.
3-4	35	27	23	28	21
4-5	18	18	22	27	21
•	221	239	230	227	195

AVERAGE INFORMATION FOR EACH TYPE VEHICLE THAT ENTERED AREA

Type Vehicle	Average Length of Stay	Average No. of People	A	В
Car	17.2 min.	2.5	61.1	17.2
Car with camper Trailer	22.1 min.	3.6	3.1	28.7
Car with house Trailer	30.5 min.	3.6	1.1	30.0
Car with boat Trailer	14.5 min.	4.0	0.2	10.5
Car with other Trailer	26.0 min.	2.9	0.6	23.3
Single unit truck	22 1 min	2.8	11.8	16.6
Truck with camper	23.3 min.	2.9	2.9	25.6
Truck with trailer	27.2 min.	3.6	2.5	15.4
Truck (commercial)	15.6 min.	1.4	1.8	13.2
Semi	24.3 min.	1 . 4	6.5	10.0
Motorhome	22.1 min.	2.7	2.2	13.0
Bus	16.0 min.	15.0	0.1	10.0
Other	22.1 min.	1.6	$\frac{6.1}{100}$	25.3
	19.3 min.	2.5	100	16.9

A refers to percentage of total number of vehicle's using rest area.

7.0%

Vehicles with Pets

78 vehicles containing 96 pets

Vehicles stopping at other rest areas 55%

Vehicles spending there vacation in Minnesota 32%

Vehicles who's plans had been affected by gas shortage 20%

Vehicles on vacation that were camping 16%

B refers to percentage of this vehicle that stopped in rest area, out of total number of vehicles that passed this rest area.

COMMENTS:

We received over 600 comments at each rest area. The majority of the people mentioned how clean, well kept, good looking and well designed the rest areas are in Minnesota. One major comment at Highforest, over 35 times, was the long distance between Blue Earth and the next rest area.

Selected other comments are:

We were very pleased with the nature conservancy at Blue Earth

Should have vending machines (several comments)

Close it up and install gas pumps

Need more shade trees (several comments)

Would be nice to have D.O.T. maps available

Where are the dump stations (several comments)

Minnesota has the best rest areas in the U.S. (Several comments)

First Class!

Should have paper towels, soap, faucets that stay on and how about a coke machine Get off Bumpy road

Rest areas to far apart.

Keep up the good work and show off the state

Good use of taxpayers money

Nicely landscaped

Why not build rest areas in the median

Wasted tax money

Received Map (thank you)

We could use more rest areas like this on state roads

No beer whats the story

Money well spent

Need one every 30-40 miles

Not enough parking

Travel information very helpful

I stop because there is an attendent so I don't have to be frightened to stop

Need table to change baby

Bikers have more fun than people

I am very fond of rest areas especially when riding a cycle

Like to see wildlife (Several comments)

Excellent rest stop Felt Safe

Playground great idea

Like to see the passive solar here

Should have a U.S. Mail Box

Would like electric outlets to plug in air conditioner during lunch

Very nice, If Montana only knew

Built with both children and adults in mind

Be back next year to see wildlife

Employee's very courteous

One of the best ways to spend tax dollars

GAS COMMENTS:

We asked 2,321 vehicles if they were on vacation, and if they were did the current gas shortage affect your vacation travels. They answered yes 437 times no 1,017 times and made approximately 200 comments. The comments were mostly that there is no shortage and gas is to expensive other comments are:

My bike uses so little gas it isn't worth talking about No stations open at night Less travel We use diesel Money Wise Shorter trips, Stay longer at Stops Gas was expensive in National Parks Not going as Far Bought a compact car. (29 mpg) No premium Motorcycles need it Cut my income by 30% Stayed closer to home More is spent on gas less on recreation & Food We camp at KOA's to save money for gas Not using motorhome this trip Need a small business loan to go 100 mi. Diesel Rabbit 45 mpg on trip helps much Used Motorcycle I get 60 miles to gallon We eat less Traveling only in Minnesota There is no shortage More conscious of driving habits Driving still cheaper than flying I drive truck, it's very bad

BLUE EARTH REST AREA USAGE SURVEY I-90 E B

DEAR MOTORIST:

THE MINNESOTA DEPARTMENT OF TRANSPORTATION IS DETERMINING WHAT SHOULD BE THE SPACING OF THE REST AREAS ALONG THE HIGHWAY AND WHAT FACILITIES THEY SHOULD PROVIDE TO SATISFY YOUR NEEDS. ONLY YOU CAN SUPPLY INFORMATION WE NEED TO PLAN REST AREA FACILITIES. PLEASE ANSWER THE FOLLOWING QUESTIONS.

DAY	OF WEEK	VEHICLE TYPE	NUMBER OF PI	COPLE IN		
		TIME IN	VEHICLE	VEHICLE		
LIC	ENSING STATE	TIME OUT	Management			
WHE	RE IS YOUR HOME (CITY	OR COUNTY)?	(STATE)_	Мания госоможная с ^{динав} еня		
	g alla Constitution and the contract of the co	REST AREA	USE			
1.	WHAT WAS YOUR CHIEF P	URPOSE FOR DRIVING INTO	THIS REST AREA? (che	eck only one)		
	1. Use rest room	2Dispose of sewage	3Wa	iter		
	4. Just to rest	5Use Travel Inform	ation Board 6Te	elephone		
	7. Eat/Picnic	8. Dispose of refuse	90	her (please specify)		
2.		UR PARTY USED THE FOLLOW				
3.	WHICH OF THE FOLLOWIN	G FACILITIES WERE USED B	Y YOUR PARTY?			
	1Picnic table	2Travel infor	mation 3	Electrical outlet		
	4Picnic shelter	5Trash recept	acle 6	Telephone		
	7Other (Please s	pecify)		None of these		
4.	DO YOU HAVE ANY PETS	TRAVELING WITH YOU?	NUMBER			
		THER REST AREAS THIS TRI	· · · · · · · · · · · · · · · · · · ·			
ercudinations		ON VACATION OR PARTICIPA		EATIONAL OR		
	1. Will you or did y	ou spend your vacation o	r related time in Mir	nnesota? YesNo		
	2. If you answered "yes" to the previous question, what City or Lake did you or will you stay near? (City or Lake)					
	Co	as shortage affected you		YesNo		
	4. How long are you	planning on stayin <mark>g in</mark> M	innesota?	Days		
	5. Will you be campi	ng or using campground f	acilities? Yes l	NO mediciones		
	REST AREA COMMENTS					

PLEASE RETURN TO PEOPLE AT REST AREA EXIT
THANK YOU