DEPARTMENT Mn/DOT - Site & Development Unit Trans. Annex - Ext. 5773

Office Memorandum

TO

Len Eilts

Office of Design Services

DATE: April 7, 1977

FROM

Jim Reierson J. Kellyku

Site and Development

SUBJECT:

Usage Survey Results

High Forest Rest Area, I-90

Attached are the results of a usage survey taken at the above rest area during the summer of 1976. The figures generally indicate that the rest area usage at the high forest facility is average and that design criteria being developed for Interstate Rest Areas is valid. The survey reflects the fact that facility usage peaks on a daily basis between the hours of 10:00 A.M. and 4:00 P.M.

These types of usage surveys are a very good barometer as to the ongoing user activities, as well as identifying and defining basic design considerations.

Attachment: Usage Survey

cc:

R. Braun

F. Marshall

L. Korth

R. Larson

L. Foote

R. Doerr

DEPARTMENT MN/DOT
Annex

Office Memorandum

TO

Jim Reierson

Senior Landscape Architect

DATE: February 23, 1977

FROM

Robert B. Doerr Set V

Intermediate Highway Technician

PHONE: 5781

SUBJECT:

High Forest Rest Area Usage Study I-94

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Date - July 15-19, 1976
Hours - 9a.m. to 5 p.m. all vehicles interviewed
        5 p.m. to 9 a.m. visual count of vehicles and people
Vehicles on main line E.B. 9 a.m. to 5 p.m.
                                                                 8457
Vehicles entering rest area 24 hours per day 5 p.m.-9 a.m.
                                                                  706
                               9 a.m. to 5 p.m.
                                                                 1082
Percent of Vehicles stopping during 9a.m. to 5 p.m.
                                                                 12.8%
Average person per vehicle 24 hours 5 p.m. to 9 a.m.
                                                                  2.3
                               9 a.m. to 5 p.m.
                                                                  2,6
Average time in rest are 17.5 min./vehicle - 9 a.m.-5 p.m.
                         168.33 gal./day
Average water use
                         per person 4.6 gal/person
   5 day total
                         20,200 gallons
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Purpose for Entering 9 a.m. to 5 p.m.

Use rest rooms	64.3 %
Eat	12.8
Just to rest	6.7
Other	5.3
Water	3.1
Telephone	1.6
Travel Info	.6
Use Trash Receptacles	. 3
Dispose of Sewage	.3

Percent of Persons Using - 9 a.m. - 5 p.m.

Rest Rooms	88	, %
Drinking water	50	}

Percent of Vehicles Using 9 a.m. - 5 p.m.

•	
Trash Receptacles	33 %
Picnic Tables	16
Travel Information	11.5
Telephone	3
Electric Outlets	.5

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Total 1788

Vehicles Enter	cing - 24 hours	Vehicals That enford	Vehiculs Road
Passenger car no trailer Passenger car with trailer Single unit truck with camper Single unit truck without camper Semi trucks Bus recreational Bus commercial		62.3 60 % 6.6 9.5 7.1 7.9 10.8 6 8.7 10.5 5.2 3.5 .2 .1	66.9 4.3 1.0 12.8 9.8 2.5
Other vehicles		4.3 2.5	2.7

Day	Vehicles Entering	Vehicles on Mainline EB. 9 a.m 5 p.m.	% Stopping
Thursday	246 206	/675 1 63 8	12.6 14.6
Friday	239 220	1956 1869	11.8 12.2
Saturday	252 224	1921 1719	13.0 13./
Sunday	216 204	2007 1657	12.3 10.8
Monday	247 228	1824 1574	14.5 13.5
Totals	1200 1082	9393 8457	12.8 12.8

		Time of	Vehicles	Entering	
	Thurs.	Fri.	Sat.	Sun.	Mon.
1-2 a.m.	4	7	8	6	2
2-3	5	3	5	5	7
3-4	5	5	3 5	3	4
4-5	4	5	5	1	1
5-6	5	3	6	2	6
6-7	14	11	1	2	9
7-8	14	13	15	5	9
8-9	15	21	13	7	8
9-10	16	14	21	6	20
10-11	24	31	22	33	29
11-12	21	34	30	21	28
12-1 p.m	. 39	31	34	30	44
1-2	30	3 3	40	32	33
2-3	27	31	31	25	31
3-4	3 5	22	26	31	30
4-5	14	24	20	2 6	13
5-6	24	28	13	17	22
6-7	16	23	17	14	. 7
7-8	9	15	6	21	12
8-9	5	16	6	8	4
9-10	14	13	7	11	11
10-11	6	6	9	6	5.
11-12	10	11	9	11	1
12-1	10	7	5	1	3
	366	407	352	324	339

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	Water Use (gal.)				
·	Thurs.	Fri.	Sat.	Sun.	Mon.
1-9 a.m.	600	600	400	200	400
9a.m5 p.m.	2000	2400	2700	1700	2200
5p.m1 a.m.	1500	1700	1400	1200	1200
Sub Tot.	4100	4700	4500	3100	3800
Tot	20200 gallons			•	

Average Time in Rest Area

To eat	36.0 minutes
To rest	18.7
Other	13.6
To use rest rooms	13.2
To get water	13.0
Use Telephone	12.8
Dispose of waste	7.6