

TO : L. A. Korth
Assistant Commissioner, Right-of-Way and Design

FROM : L. B. Foote
Director, Environmental Services

SUBJECT: Hansel Lake Rest Area Usage Study

DATE: Oct. 24, 1969

FILE

Attached is a report of Mr. Paulson to me regarding our Rest Area Usage Survey at Hansel Lake on I-94. This report contains several items which have important implications regarding our future rest area development as well as the probable future events regarding our present rest areas.

Hansel Lake was designed on the assumption that 11% of the cars and 7% of the trucks on the mainline would stop. It was also designed for an average stay of 15 minutes and an average number of 2.7 persons per car. Instead, 15% of the cars and 16% of the trucks are stopping and the average number of persons per vehicle is 3.3. From the data obtained, a twenty minute stop would seem to be more appropriate for design purposes.

The rest areas now under design have been figured on the basis of 12% of the cars and 7% of the trucks stopping and a twenty minute stay. All of the rest areas have been designed with the idea of about 20% of the people using the picnic tables. In the survey, 38% of the people said they stopped to eat, but only 16% of them used the picnic tables. Three factors account for this difference: (1) Some of the people, when asked what their primary purpose of stopping was, may have been reluctant to say rest room usage and so said something else; (2) Some people prefer to eat in or on their car; (3) When most people were stopping to eat, the picnic shelters and tables were fully utilized and thus they had to eat somewhere else. It appears that we should have been designing for about 30% of the people using the picnic facilities and if this is true, we are about 1/3 under design with regard to picnic shelters and tables at the start, not to mention the future.

Our survey crew noted that during the heaviest use periods, the people were parking along ramps and roadways other than the area designated, and that the rest area was approaching being clogged.

Since the average water use per person was 3.9 gallons, it is fortunate that we shifted our design criteria late in the design stage from 3 gallons per person to 5 gallons per person.

L. B. Foote

Director, Environmental Services

IEP:jar

cc:

W. S. Ekern

J. A. Burchie

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V. L. Johnson

Randy Johnson - EPR

Jim Weaver - EPR

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J. Beaudry - EPR

G. T. Crozier

TO : L. E. Foote, Director
Environmental Services

FROM : Stanley A. Paulson
Sr. Highway Technician

SUBJECT: Lake Hansel Rest Area Usage Study

DATE: 10-20-69

Date: August 1-7, 1969
Hours: 10 a.m. - 6 p.m. Monday-Saturday
6 a.m. - 10 p.m. Sunday

Weather: Monday-Sunday. Clear and warm

Percent of vehicle on mainline using rest area trucks 16% cars 15%

57% of vehicles entering were out of state

Vehicles from 44 states used the rest area

Average persons/vehicle = 3.3

Average use of water = 3.9 gallons/person

Purpose for driving into rest area

Use rest room	40%
To eat	38%
To rest	10%
Other	6%
Water	5%
Dispose of waste	0.5%
Information	0.3%
Use telephone	0.2%
Dispose of sewage	0.0%

Percent of persons using

Rest rooms	81%
Drinking water	56%
Telephone	0.2%

Percent of vehicles using

Waste disposal	32%
Picnic tables	16%
Information	8%
Elect. Outlet	0.5%

Average Stay

To eat	36 min.
To rest	22 min.
Use rest room	16 min.
Use telephone	15 min.
Drinking water	14 min.
Other	13 min.
Information	11 min.
Dispose of waste	8 min.

18,900
4940
4001

TIME OF VEHICLE ENTERING

	6am	7am	8am	9am	10am	11am	noon	1pm	2pm	3pm	4pm	5pm	6pm	7pm	8pm	9pm	TOTAL
	-	-	-	-	27	40	40	36	26	24	16	15	-	-	-	-	224
	-	-	-	-	19	33	25	22	31	28	25	17	-	-	-	-	200
	-	-	-	-	19	16	23	15	26	18	16	9	-	-	-	-	142
	-	-	-	-	16	9	21	32	18	9	17	20	-	-	-	-	142
	-	-	-	-	22	20	24	25	23	31	26	24	-	-	-	-	195
	-	-	-	-	50	47	29	26	20	24	20	24	-	-	-	-	240
	2	4	12	13	33	29	36	18	34	34	24	31	20	19	19	26	<u>354</u>
1	2	4	12	13	186	194	198	174	178	168	144	140	20	19	19	26	1497

Vehicles on Highway

Passenger Cars Pulling no trailer	81.2%
Truck and trailer	4.9%
Single unit trucks	3.7%
Passenger Car pulling camper trailer	3.2%
Up campers	2.1%
Passenger Car pulling house trailer	1.6%
Passenger car pulling other trailer	1.4%
Passenger car pulling boat trailer	1.0%
Other motor vehicles	0.8%
	0.1%

Typical comments from motorist

- Best from coast to coast
- Very clean
- Should have more
- Beautiful
- Better than most states
- Don't mind paying taxes for something like this
- Congratulations M.H.D.

[Signature]
Sr. Highway Technician

SAP:kmr

Note: 9% of the passenger cars entering the rest area were hauling some type of trailer.