TO: L.A. Korth  
Assistant Commissioner  
Design and R/W

FROM: L.E. Foote, Director  
Environmental Services

SUBJECT: Rest Area Usage Study  
Long Lake and Shingobee Bay on T.H. 371

Attached are copies of subject rest area usage studies, these facilities all have vault toilets. The percentage of mainline traffic stopping at Long Lake is lower than we might have estimated, while the length of stay is longer.

L.E. Foote, Director  
Environmental Services

Attachment: Usage Studies

cc: L.A. Korth  
W.S. Ekern  
J.A. Murchie  
D.J. Aune  
T.G. Soderberg  
Stan Paulson
Office Memorandum

TO: L.E. Foote, Director
Environmental Services

FROM: Stan Paulson
Senior Highway Technician

SUBJECT: Long Lake Usage Study T.H. 371

Date: July 15, 16, 17, 18, 1971
Hours: 10 A.M. - 6 P.M.
Weather: Clear and warm - One day of rain

Vehicles on mainline: 28,094
Vehicles entering: 293
Out of state vehicles entering: 20%
Average persons per vehicle: 3.0%

PURPOSE FOR ENTERING

Other: 41.3%
Use Rest Room: 23.9%
To Eat: 18.1%
Just to Rest: 13.3%
Dispose of Waste: 3.1%
Get Water: 0.3%

PERCENT OF PERSONS USING

Rest Room: 40%
Drinking Water: 8%

PERCENT OF VEHICLES USING

Picnic Tables: 20%
Waste Disposal: 17%

AVERAGE LENGTH OF STAY

To Eat: 52 Minutes
Other: 48 Minutes
Just to Rest: 42 Minutes
Get Water: 35 Minutes
Use Rest Room: 11 Minutes
Dispose of Waste: 2 Minutes

AVERAGE: 36 Minutes
### VEHICLES ENTERING VEHICLES ON MAINLINE % STOPPING

<table>
<thead>
<tr>
<th>DAY</th>
<th>VEHICLES ENTERING</th>
<th>VEHICLES ON MAINLINE</th>
<th>% STOPPING</th>
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<tbody>
<tr>
<td>Thursday</td>
<td>39</td>
<td>4332</td>
<td>0.9 %</td>
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<tr>
<td>Friday</td>
<td>50</td>
<td>5136</td>
<td>1.0 %</td>
</tr>
<tr>
<td>Saturday</td>
<td>99</td>
<td>7152</td>
<td>1.4 %</td>
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<tr>
<td>Sunday</td>
<td>45</td>
<td>6667</td>
<td>0.7 %</td>
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<tr>
<td>Monday</td>
<td>60</td>
<td>4807</td>
<td>1.2 %</td>
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<tr>
<td><strong>TOTALS</strong></td>
<td><strong>293</strong></td>
<td><strong>28,094</strong></td>
<td><strong>1.0 %</strong></td>
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### TIME OF ENTRY

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<th>THURS.</th>
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<th>SAT.</th>
<th>SUNDAY</th>
<th>MON.</th>
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<td>6</td>
<td>6</td>
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<td>25</td>
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<tr>
<td>11 - Noon</td>
<td>3</td>
<td>4</td>
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<td>8</td>
<td>16</td>
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<td><strong>45</strong></td>
<td><strong>60</strong></td>
<td><strong>293</strong></td>
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</tbody>
</table>

### VEHICLES ENTERING

- Passenger Car pulling no trailer: 66%
- Vehicles pulling a trailer: 18%
- Single Unit trucks: 7.5%
- Pickup Campers: 6%
- Buses: 1.2%
- Other Motor Vehicles: 1%
- Semi-trucks: 0.3%

Stan Paulson  
Senior Highway Technician  
SP:11m