

Office Memorandum

DEPARTMENT TRANSPORTATION - Env. Services
Transp. Annex - Ext. 5781

TO : J. S. Reiersen
 Senior Landscape Architect

DATE: December 29, 1976

FROM : R. B. Doerr
 Highway Tech.

SUBJECT: Mt. Josephine Usage Study

Date: August 12-16, 1976
 Hours: 9 a.m. to 5 p.m.
 Weather: Thurs - Rain & Cool
 Fri. - Mon. - Clear & Cool

Vehicles on mainline: 6,281
 Vehicles entering rest area: 435
 Percent of vehicles entering: 6.9%
 Average Persons per Vehicle: 3.18
 Average length of stay: 12.73 min.

Purpose for Entering

View	43%
Use Rest Room	38%
Eat	14%
Use trash receptacles	2%
Water	1%
Just to rest	1%
Other	1%

Percent of persons using rest rooms - 45%

Percent of Vehicles Using

Trash Receptacles	27%
Travel Information	15%
Picnic Tables	11%

Direction Cars in Area were Traveling

Northbound	68%
Southbound	32%

Vehicles Entering

Passenger car pulling no trailer	72%
Passenger car pulling trailer	11.7%
Single Unit Truck	5%
Single Unit Truck with Camper	7%
Bus	.3%
Bus Camper	2%
Other	2%

	<u>Vehicles Entering</u>	<u>Vehicles on Mainline</u>	<u>% Stopping</u>
Thursday	68	1,171	5.8
Friday	91	1,316	6.9
Saturday	121	1,400	8.6
Sunday	71	1,206	5.8
Monday	<u>84</u>	<u>1,188</u>	<u>7.0</u>
Total	435	6,281	6.9%

R. B. Doerr
Highway Tech.

Attachment

The following parks, waysides, recreation areas, state and national forests and campgrounds between Duluth and Grand Portage were used by the people stopping at Mt. Josephine rest area from 8-12-76 to 8-16-76

Existing State Parks both Natural and Recreation Types and Waysides owned by the Department of Natural Resources (Parks)

- 35 a. Judge C. R. Magney
- 9 b. Kodonce
- 6 c. Devils Track Wayside
- 51 d. Cascade River
- 2 3. Ray Berglund
- 58 f. Temperance River
- 9 g. Cross River
- 1 h. Carlson Falls State
- 41 i. Baptism River
- 75 j. Split Rock Lighthouse
- 128 k. Gooseberry Falls
- 2 l. Floodbay State
- 1 m. George H. Crosby

Existing Recreation Areas

- 0 a. Rock Vole Habitat
- 5 b. Silver Cliff
- 0 c. Hawk Ridge
- 3 d. Minnesota Point
- 0 e. Tettagonehe State Park

State Forests and Sub Areas

- 36 a. Grand Portage (DNR-Forestry)
- 0 b. Pat Bayle (DNR-Forestry)
- 4 c. Finland (DNR-Forestry)

National Forest

- 51 a. Superior National Forest

Others

- 2 - Lambs
- 2 - BWCA
- 1 - Hollow Rock
- 3 - Grand Marais
- 1 - Tofte Dump (Bears)
- 21 - Manitou Falls
- 1 - Paradise Beach
- 1 - Isle Royale
- 2 - Gun Flint Trail
- 1 - Sawbill Trail

State Waysides (Mn/DOT)

- 16 a. Grand Portage 1
- 435 b. Grand Portage 2 - Site of survey
- 5 c. Hovland
- 25 d. Grand Marais 1
- 9 e. Grand Marais 2
- 19 f. Grand Marais 3
- 8 g. Grand Marais 4
- 7 h. Grand Marais 5
- 4 i. Grand Marais 6
- 11 j. Tofte 1
- 9 k. Tofte 2
- 16 l. Shroeder
- 17 m. Caribau River
- 25 n. Silver Bay
- 21 o. Palisade
- 7 p. Beaver Bay 1
- 14 q. Beaver Bay 2
- 2 r. Beaver Bay 3
- 2 s. Crow Creek
- 9 t. Flood Bay
- 19 u. Knife River
- 6 v. French River

National Parks

- 83 a. Grand Portage Indian Reservation

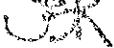
Campgrounds

- 13 a. Judge C. R. Magney (DNR Parks)
- 11 b. Cascade (DNR Parks)
- 5 c. Temperance (DNR Parks)
- 9 d. Temperance (DNR Parks)
- 17 e. Gooseberry (DNR Parks)
- 3 f. Eckbeck (DNR-Forestry)
- 2 g. Finland (DNR-Forestry)
- 0 h. Kimball Lake (N.F.S.)
- 1 i. Devils Lake (N.F.S.)
- 0 j. Nine Mile Lake (N.F.S.)

Office Memorandum

DEPARTMENT Mn/DOT
AnnexTO : L. Eilts
Design Services

DATE: January 24, 1977

FROM : J. Reiersen 
Site and Development Section

PHONE: 5773

SUBJECT: Results of T.H. 61 Rest Area Survey - 1975
Mt. Josephine Rest Area
Knife River Rest Area

During August, 1976 two usage surveys were made at the Mt. Josephine and Knife River Rest Areas on T.H. 61 in District 1. These surveys were taken to gain information and insight as to the motorists user habits of these upgraded rest area sites and the recreational activities along the north shore of Lake Superior. The information gained from these surveys will be compared to other highway system rest area usage and used to develop appropriate design parameters for future rest area developed along T.H. 61.

In addition to the usage surveyed at the Department's rest area facilities, additional information was gathered concerning usage of state parks and other recreational facilities (see page 3) at the request of DNR. The results are interesting, indicating that highway rest areas appear to be used at a comparable level as state parks, considering total usage of TH 61.

The usage surveys for the (2) rest areas reveal interesting and very diverse user patterns. Comments highlighting those user patterns are as follows:

MT. JOSEPHINE REST AREA - Class II, vault type restroom

- . Lower mainline traffic volumes, related to remote location.
- . Higher percentage of vehicles stopping - related to higher concentration of tourist traffic. Mt. Josephine located at Canadian border, well into the tourist travel zone of North Shore.
- . Higher incidence of vehicles stopping, also related to sites proximity to urban area.
- . Average length of stay lower-related to limited facilities and scenic view.
- . Purpose for entering was for scenic view, main activity of rest area. Main purpose for entering most rest areas is to use restrooms.

L. Eilts
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- . Higher use of travel information facilities - related to the sites location within the tourist travel zone.
- . Traffic flow in N.B. direction, reflecting directional tourist travel - higher percent stopping on N. B. lane

KNIFE RIVER REST AREA - Class II, vault type restroom

- . Higher mainline traffic volumes, related to proximity to Duluth, Two Harbors and commuter traffic.
- . Lower percentage of vehicles stopping - related to urban local and commuter traffic.
- . Average length of stay about average - related to facilities and activities available.
- . Purpose for entering, restrooms, similar to most rest area survey information.
- . Travel information facilities used more due to entering the heavy tourist travel zone of North Shore.

The rest area usage information, coupled with the "system analysis" of T.H. 61 from Duluth to the Canadian border will provide use with the appropriate information to determine the rest area development requirements of the North Shore, the level of service and the design criteria needed in the development.

Attachments

cc:

R. Braun
F. Marshall
J. Pawlak - Dist. 1
L. A. Korth
J. Allen, Dist. 1
E. Jonnassen, Dist. 1
H. Juffer
R. Doerr ✓

Office Memorandum

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TO : J. S. Reiersen
 Senior Landscape Architect

DATE: December 29, 1976

FROM : R. B. Doerr
 Highway Tech.

SUBJECT: Knife River Usage Study

Date : August 12-16, 1976
 Hours : 9 a.m. - 5 p.m.
 Weather: Thurs, Sat., Sun., - Partly Cloudy, cool
 Fri. - Lite Drizzle
 Mon. - Sunny Warm

Vehicles on mainline: 16,401
 Vehicles entering rest area: 238
 Percent of vehicles entering: 1.4%
 Average persons per vehicle: 2.8
 Average Length of Stay: 20.34 min.

Purpose for Entering

Rest Rooms	42%
Eat	30%
Other	12%
Just to rest	7%
View	5%
Use Trash Receptacles	2%
Water	1%
Travel Information	1%

Percent of Persons using Rest Rooms 63.5%

Percent of Vehicles Using

Trash Receptacles	43%
Picnic Tables	28%
Travel Information	15%

Direction Cars in Area were Traveling

Northbound	77%
Southbound	23%

Vehicles Entering

Passenger car with no trailer	67%
Passenger car with trailer	7%
Single Unit Truck	9%
Single Unit Truck with camper	9%
Semi	.5%
Bus	.5%
Bus Camper	3%
Other	4%

	<u>Vehicles Entering</u>	<u>Vehicles on Mainline</u>	<u>% Stopping</u>
Thursday	39	3,154	1.2%
Friday	35	3,291	1.1%
Saturday	64	3,682	1.7%
Sunday	56	3,540	1.6%
Monday	<u>44</u>	<u>2,972</u>	<u>1.5%</u>
Total	238	16,639	1.4%

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Highway Tech.

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The following parks, waysides, recreation areas, state and national forests and campgrounds between Duluth and Grand Portage were used by the people stopping at Knife River rest area from 8-12-76 to 8-16-76

Existing State Parks both Natural and Recreation Types and Waysides owned by the Department of Natural Resources (Parks)

- 1 a. Judge C. R. Magney
- 1 b. Kodonce
- 1 c. Devils Track Wayside
- 5 d. Cascade River
- 0 e. Ray Berglund
- 10 f. Temperance River
- 2 g. Cross River
- 0 h. Carlson Falls State
- 9 i. Baptism River
- 14 j. Split Rock Lighthouse
- 28 k. Gooseberry Falls
- 2 l. Floodbay State
- 0 m. George H. Crosby

Existing Recreation Areas

- 0 a. Rock Vole Habitat
- 2 b. Silver Cliff
- 0 c. Hawk Ridge
- 1 d. Minnesota Point
- 0 e. Tettagonehe State Park

State Forests and Sub Areas

- 2 a. Grand Portage (DNR-Forestry)
- 1 b. Pat Bayle (DNR-Forestry)
- 3 c. Finland (DNR-Forestry)

National Forest

- 21 a. Superior National Forest

Others

- 1 - Burlington Bay
- 1 - Independence T.H. 53
- 1 - Lutsen
- 1 - Thompson Hill Info.
- 1 - Lambs Camp Grounds
- 1 - Devils Track

State Waysides (Mn/DOT)

- 2 a. Grand Portage 1
- 4 b. Grand Portage 2
- 0 c. Hovland
- 3 d. Grand Marais 1
- 1 e. Grand Marais 2
- 3 f. Grand Marais 3
- 1 g. Grand Marais 4
- 1 h. Grand Marais 5
- 1 i. Grand Marais 6
- 0 j. Tofte 1
- 0 k. Tofte 2
- 2 l. Shroeder
- 2 m. Garibau River
- 1 n. Silver Bay
- 3 o. Palisade
- 2 p. Beaver Bay 1
- 3 q. Beaver Bay 2
- 0 r. Beaver Bay 3
- 0 s. Crow Creek
- 3 t. Flood Bay
- 238 u. Knife River - Site of Survey
- 4 v. French River

National Parks

- 3 a. Grand Portage Indian Reservation

Campgrounds

- 0 a. Judge C. R. Magney (DNR Parks)
- 0 b. Cascade (DNR Parks)
- 1 c. Temperance (DNR Parks)
- 1 d. Temperance (DNR Parks)
- 5 e. Gooseberry (DNR Parks)
- 0 f. Eckbeck (DNR Forestry)
- 1 g. Finland (DNR Forestry)
- 0 h. Kimball Lake (N.F.S.)
- 0 i. Devils Lake (N.F.S.)
- 1 j. Nine Mile Lake (N.F.S.)