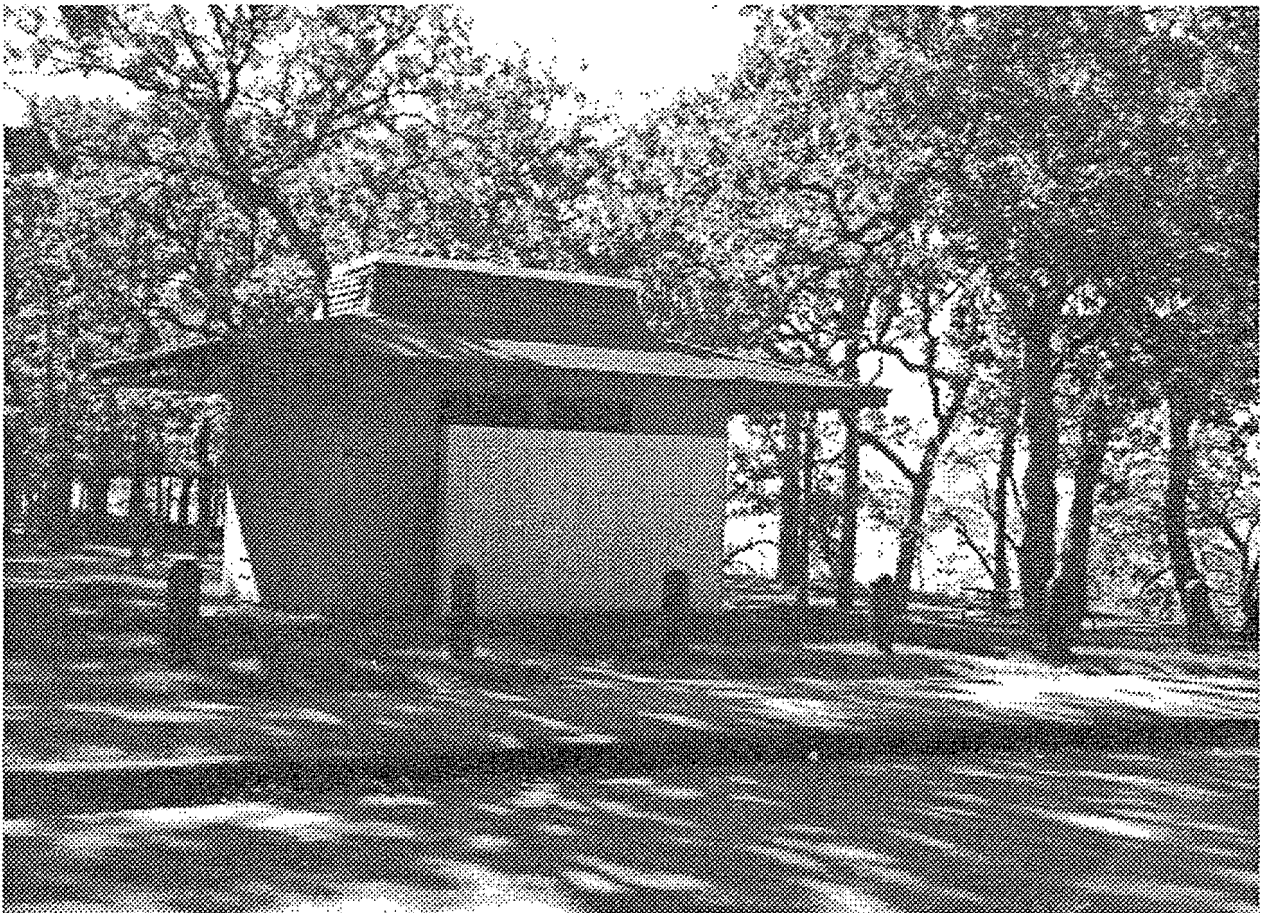


# 1992 CLASS II SAFETY REST AREA USER SURVEYS



**KNIFE LAKE SAFETY REST AREA  
SHINGO BEE BAY SAFETY REST AREA**

**T.H. 65  
T.H. 371**

The Minnesota Department of Transportation (Mn/DOT), Office of Technical Support, Site Development Unit, conducted Safety Rest Area User Surveys at two Class II locations in 1992: the Knife Lake Safety Rest Area, approximately 5 miles north of Mora on Trunk Highway 65, July 30 through August 3; and the Shing-o-bee Bay Safety Rest Area, approximately 4 miles south of Walker on Trunk Highway 371, August 13 through 17.

The objectives of the surveys were to accumulate user data to verify or modify Safety Rest Area design criteria developed for highway planning, location and design. Pertinent information collected includes percent of vehicles stopping, traffic classifications, persons per vehicle and use of facilities. The individual survey findings are stored as a computer data file which allows comparison of a wide range of information, and permits further opportunities for sorting data for specific user group information.

For more information regarding these surveys, please feel free to call the Mn/DOT Site Development Unit, Jim Reiersen (612) 296-5773, or Karl Weissenborn (612) 296-0295.

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

**CRITICAL DATA**

Date of survey: July 30 though August 3, 1992

Hours of distribution: 9:00a to 6:00p

Weather on site: partly cloudy to sunny

Vehicles entering Safety Rest Area: 322

Mainline vehicles passing: 12,463

Percent of mainline vehicles stopping: 2.59%

Percent of out-of-state vehicles: 4.54%

Percent in-state vehicles: 95.48%

People using the Safety Rest Area:	22.41%	173 Senior Adults (over 60)
	54.02%	417 Adults (16 to 59)
	<u>23.58%</u>	<u>182 Children (under 16)</u>
	100.01%	772 Total

Average number of people per vehicle: 2.33

Average length of stay in Safety Rest Area: 15.5 minutes

**Number of vehicles 9:00a to 6:00p**

<u>Date</u>	<u>Day</u>	<u>Vehicles Entering Rest Area</u>	<u>Mainline Vehicles Not Entering Rest Area</u>	<u>Combined Daily Traffic Totals</u>	<u>Percent Stopping</u>
July 30	Thursday	54	1,954	2,008	2.69%
July 31	Friday	81	3,539	3,620	2.24%
August 1	Saturday	67	2,983	3,050	2.20%
August 2	Sunday	91	2,333	2,424	3.75%
August 3	Monday	<u>39</u>	<u>1,654</u>	<u>1,693</u>	<u>2.30%</u>
Totals (surveys returned)		332	12,463	12,795	2.59 (ave.)

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

**Time of vehicles entering Safety Rest Area**

<u>Time</u>	<u>Thurs.</u>	<u>Fri.</u>	<u>Sat.</u>	<u>Sun.</u>	<u>Mon.</u>
9 - 10	6	4	8	9	5
10 - 11	3	10	10	7	8
11 - 12	8	5	6	7	10
12 - 1	11	12	9	1	0
1 - 2	3	10	7	12	5
2 - 3	4	9	8	13	4
3 - 4	7	20	10	14	3
4 - 5	7	11	5	14	1
<u>5 - 6</u>	<u>5</u>	<u>0</u>	<u>1</u>	<u>14</u>	<u>2</u>
Totals	54	81	64	91	38

Note: All totals may not be equivalent to the 332 "vehicles entering Safety Rest Area", as shown above, due to lack of information on the "Time In" entries.

**Type of vehicle entering Safety Rest Area**

<u>Vehicle</u>	<u>Vehicle total</u>	<u>Average length of stay</u>	<u>Number of people</u>	<u>(A)</u>	<u>(B)</u>
Cars	158	12.96	324	47.59%	1.58%
Car w/ recreation trailer	12	17.92	28	3.61%	30.77%
Car w/ other trailer	6	9.50	11	1.81%	6.82%
Pick-up or van	97	13.43	231	29.33%	2.59%
Pick-up - van w/ rec. trailer	23	25.70	41	6.93%	11.00%
Pick-up - van w/ other trailer	7	5.29	21	2.11%	2.16%
Commercial trucks	4	18.00	11	1.20%	1.74%
Semi-tractor trailer trucks	1	12.00	3	0.30%	0.06%
Recreational vehicles	14	23.14	33	4.22%	4.78%
Buses	3	41.67	58	0.90%	7.32%
Other	7	17.00	11	2.11%	6.86%
Not answered	0	0.00	0	0.00%	0.00%

(A) Percentage of total number of vehicles using Safety Rest Area.

(B) Percentage of vehicles that stopped in the Safety Rest Area, out of the total number of mainline vehicles of the same kind both entering and passing the Safety Rest Area.

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

SURVEY QUESTIONS

*Question 1.: What is the main reason you stopped at this Safety Rest Area? (check only one)*

	<u>Cars</u>	<u>Percent</u>
Rest rooms	235	70.78
Rest/relax	24	7.23
Eat/picnic	18	5.42
Switch drivers	5	1.51
Water	5	1.51
Check load/equipment	4	1.20
Sleep	2	0.60
Other	25	7.53
<u>Didn't answer</u>	<u>14</u>	<u>4.22</u>
Total	322	100.0%

*Question 2.: Reason for your travel?*

	<u>Cars</u>	<u>Percent</u>
Vacation	175	52.71
Personal	108	32.53
Business	29	8.73
<u>Didn't answer</u>	<u>20</u>	<u>6.02</u>
Total	332	99.99%

*Question 3.: How long have you traveled since your last stop?*

	<u>Cars</u>	<u>Ave. length of stay minutes</u>
Less than 1 hour	37	11.14
1 to 2 hours	143	43.07
Over 2 hours	111	33.43
<u>Didn't answer</u>	<u>41</u>	<u>9.37</u>
Total	332	

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

*Question 4.: How far do you generally travel between stops?*

Cars average: 107 miles

*Question 5.: How many people in your party used the following?*

	<u>Cars</u>	<u>Percent</u>
Rest room facilities	573	69.56
Drinking water	130	16.84

*Question 6.: Which of the following facilities were used by you party?*

	<u>Number of people</u>	<u>Percent</u>
Rest room only	267	80.42
Picnic tables	47	14.16
Trash receptacles	44	13.25
Pet exercise area	40	12.05
Boat ramp	5	1.51
Fire grill	1	0.30
Other	19	5.72
Didn't answer	44	13.25

*Question 7.: Do you believe Safety Rest Area construction and operation are a good use of motorist state and federal tax money?*

	<u>Cars</u>	<u>Percent</u>
Yes	309	93.07
No	2	0.60
<u>Didn't answer</u>	<u>21</u>	<u>6.33</u>
Total	332	100.00%

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

*Question 8.: When traveling, which facility do you prefer to use?*

	<u>Cars</u>	<u>Percent</u>
Safety Rest Area	250	75.30
Private commercial facility	48	14.46
<u>Didn't answer</u>	<u>34</u>	<u>10.24</u>
Total	332	100.00%

*Question 9.: If this facility were not available, where would you have stopped?*

	<u>Cars</u>	<u>Percent</u>
Next town	130	39.16
Commercial facility	67	20.18
Continue driving	53	15.96
Highway shoulder	29	8.73
Local park	17	5.12
Other	12	3.61
<u>Didn't answer</u>	<u>24</u>	<u>7.23</u>
Total	332	99.99%

*Question 10.: What additional facilities would you like to see in the Safety Rest Area?*

	<u>Cars</u>
Improved facilities and building/flush toilets	21
No additional facilities	17
Trash receptacles	16
Hand washing sink	14
Food/beverage vending	14
Telephone	10
State map/tourist information	8
Play structures	7
Open year round	5
More Safety Rest Areas	4
Overnight camping	4
RV dump stations	3

1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

*Question 11.: Do you typically look for a State map display at Safety Rest Areas?*

	<u>Cars</u>	<u>Percent</u>
Yes	135	40.66
No	167	50.30
<u>Didn't answer</u>	<u>30</u>	<u>9.04</u>
Total	332	100.00%

*Question 12.: What types of travel information would you like available at Safety Rest Areas?*

	<u>Cars</u>
Maps	36
Local tourist information, cultural places of interest, local brochures	27
Milage and distance maps	10
State/local recreation, parks, camping	10
Gas, food and lodging	8
Road construction/conditions	6
Phone	2
Weather conditions	2
Other	16

*Question 13.: If commercial development were permitted at Safety Rest Areas, which of the following business types would you prefer? (check only one)*

	<u>Cars</u>	<u>Percent</u>
Gas and service	150	45.18
Vending machines	91	27.41
Restaurant, fast food	30	9.04
No commercial development	15	4.52
Restaurant, sit down	13	3.92
<u>Didn't answer</u>	<u>33</u>	<u>9.94</u>
Total	332	100.01%



1992 KNIFE LAKE SAFETY REST AREA USER SURVEY

*Question 14.: Please rate the building and ground maintenance at this Safety Rest Area?*

	<u>Cars</u>	<u>Percent</u>
Excellent	65	19.58
Good	105	31.63
Satisfactory	111	33.43
Poor	22	6.63
<u>Didn't answer</u>	<u>29</u>	<u>8.73</u>
Total	322	100.00%

*Question 15.: What would you like changed in this Safety Rest Area building?*

	<u>Cars</u>
Improved facilities, (flush toilets, running water/sinks stalls with doors)	74
Nothing changed	25
Cleaner/better maintenance	21
Better ventilation/odor	15
Open year round	14
Trash receptacles	14
Lighting on building	8
Handicap accessibility	3
Better security/policing	2
Phones	2
Vending machines	2
Other	3

**1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY**

**CRITICAL DATA**

Date of survey: August 13 through August 17, 1992

Hours of distribution: 9:00a to 6:00p

Weather on site: partly cloudy to sunny

Vehicles entering Safety Rest Area: 370

Mainline vehicles passing: 28,152

Percent of mainline vehicles stopping: 1.30%

Percent of out-of-state vehicles: 26.56%

Percent in-state vehicles: 73.44%

People using the Safety Rest Area:	21.01%	163 Senior Adults (over 60)
	60.57%	470 Adults (16 to 59)
	<u>18.43%</u>	<u>143 Children (under 16)</u>
	100.01%	776 Total

Average number of people per vehicle: 2.10

Average length of stay in Safety Rest Area: 19.8 minutes

**Number of vehicles 9:00a to 6:00p \***

(\* survey concluded at 5:00p)

<u>Date</u>	<u>Day</u>	<u>Vehicles Entering Rest Area</u>	<u>Mainline Vehicles Not Entering Rest Area</u>	<u>Combined Daily Traffic Totals</u>	<u>Percent Stopping</u>
August 13	Thursday	66	5,472	5,538	1.19%
August 14	Friday	79	6,107	6,186	1.28%
August 15 *	Saturday	86	6,000	6,086	1.41%
August 16 *	Sunday	74	5,198	5,272	1.40%
August 17 *	Monday	<u>65</u>	<u>5,375</u>	<u>5,440</u>	<u>1.19%</u>
Totals (surveys returned)		370	28,152	28,522	1.30 (ave.)

**1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY**

**Time of vehicles entering Safety Rest Area**

<u>Time</u>	<u>Thurs.</u>	<u>Fri.</u>	<u>Sat.</u>	<u>Sun.</u>	<u>Mon.</u>
9 - 10	4	10	14	6	4
10 - 11	6	13	10	8	7
11 - 12	14	9	10	12	13
12 - 1	11	14	8	13	12
1 - 2	7	9	15	12	8
2 - 3	8	9	10	6	6
3 - 4	4	8	6	7	8
4 - 5	5	4	11	9	6
<u>5 - 6</u>	<u>6</u>	<u>3</u>	<u>*</u>	<u>*</u>	<u>*</u>
Totals	65	79	84	73	64

Note: All totals may not be equivalent to the 370 "vehicles entering Safety Rest Area", as shown above, due to lack of information on the "Time In" entries.

**Type of vehicle entering Safety Rest Area**

<u>Vehicle</u>	<u>Vehicle total</u>	<u>Average length of stay</u>	<u>Number of people</u>	<u>(A)</u>	<u>(B)</u>
Cars	177	12.82	346	47.97%	1.77%
Car w/ recreation trailer	8	59.63	20	2.17%	20.51%
Car w/ other trailer	1	8.00	5	0.27%	1.14%
Pick-up or van	122	14.88	260	33.06%	3.26%
Pick-up - van w/ rec. trailer	25	42.00	44	6.78%	11.96%
Pick-up - van w/ other trailer	19	49.00	60	5.15%	5.86%
Commercial trucks	0	0.00	0	0.00%	0.00%
Semi-tractor trailer trucks	0	0.00	0	0.00%	0.00%
Recreational vehicles	15	13.67	38	4.07%	5.12%
Buses	1	33.00	2	0.27%	2.44%
Other	1	6.00	1	0.27%	0.98%
Not answered	0	0.00	0	0.00%	0.00%

(A) Percentage of total number of vehicles using Safety Rest Area.

(B) Percentage of vehicles that stopped in the Safety Rest Area, out of the total number of mainline vehicles of the same kind both entering and passing the Safety Rest Area.

1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY

**SURVEY QUESTIONS**

*Question 1.: What is the main reason you stopped at this Safety Rest Area?. (check only one)*

	<u>Cars</u>	<u>Percent</u>
Rest rooms	172	46.49
Rest/relax	41	11.08
Eat/picnic	19	5.14
Switch drivers	8	2.16
Water	8	2.16
Check load/equipment	5	1.35
Sleep	4	1.08
Other	89	24.05
<u>Didn't answer</u>	<u>24</u>	<u>6.49</u>
Total	370	100.0%

*Question 2.: Reason for your travel?*

	<u>Cars</u>	<u>Percent</u>
Vacation	148	40.00
Personal	58	15.68
Business	28	7.57
<u>Didn't answer</u>	<u>136</u>	<u>36.76</u>
Total	370	100.01%

*Question 3.: How long have you traveled since your last stop?*

	<u>Cars</u>	<u>Ave. length of stay minutes</u>
Less than 1 hour	48	14.15
1 to 2 hours	66	15.64
Over 2 hours	72	13.68
<u>Didn't answer</u>	<u>184</u>	<u>22.28</u>
Total	370	

1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY

*Question 4.: How far do you generally travel between stops?*

Cars average: 119 miles

*Question 5.: How many people in your party used the following?*

	<u>Cars</u>	<u>Percent</u>
Rest room facilities	379	51.16
Drinking water	49	6.31

*Question 6.: Which of the following facilities were used by you party?*

	<u>Cars</u>	<u>Percent</u>
Rest room only	182	49.19
Picnic tables	66	17.84
Trash receptacles	41	11.08
Pet exercise area	30	8.11
Boat ramp	18	4.86
Fire grill	5	1.35
Other	13	3.51
Didn't answer	121	32.70

*Question 7.: Do you believe Safety Rest Area construction and operation are a good use of motorist state and federal tax money?*

	<u>Cars</u>	<u>Percent</u>
Yes	218	58.92
No	6	1.62
<u>Didn't answer</u>	<u>146</u>	<u>39.46</u>
Total	370	100.00%

**1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY**

*Question 8.: When traveling, which facility do you prefer to use?*

	<u>Cars</u>	<u>Percent</u>
Safety Rest Area	176	47.57
Private commercial facility	41	11.08
<u>Didn't answer</u>	<u>153</u>	<u>41.35</u>
Total	370	100.00%

*Question 9.: If this facility were not available, where would you have stopped?*

	<u>Cars</u>	<u>Percent</u>
Next town	71	19.19
Commercial facility	51	13.78
Continue driving	42	11.35
Local park	26	7.03
Highway shoulder	7	1.89
Other	21	5.68
<u>Didn't answer</u>	<u>152</u>	<u>41.08</u>
Total	370	100.00%

*Question 10.: What additional facilities would you like to see in the Safety Rest Area?*

	<u>Cars</u>
Hand washing sink	30
Improved facilities and building/flush toilets	20
Food/beverage vending	12
No additional facilities	10
Telephone	7
Recycling receptacles	4
More Safety Rest Areas	3
RV dump stations	3
Play structures	1
Other	2

**1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY**

*Question 11.: Do you typically look for a State map display at Safety Rest Areas?*

	<u>Cars</u>	<u>Percent</u>
Yes	108	29.19
No	95	25.68
<u>Didn't answer</u>	<u>167</u>	<u>45.14</u>
Total	370	100.01%

*Question 12.: What types of travel information would you like available at Safety Rest Areas?*

	<u>Cars</u>
Maps	38
Local tourist information, cultural places of interest, local brochures	25
Milage and distance maps	14
State/local recreation, parks, camping	11
Road construction/conditions	8
Weather conditions	8
Gas, food and lodging	5
Phone	2
Other	8

*Question 13.: If commercial development were permitted at Safety Rest Areas, which of the following business types would you prefer? (check only one)*

	<u>Cars</u>	<u>Percent</u>
Gas and service	102	27.57
Vending machines	54	14.58
Restaurant, fast food	26	7.03
Restaurant, sit down	16	4.32
No commercial development	9	2.43
<u>Didn't answer</u>	<u>163</u>	<u>44.05</u>
Total	370	99.99%

1992 SHING-O-BEE BAY SAFETY REST AREA USER SURVEY

*Question 14.: Please rate the building and ground maintenance at this Safety Rest Area?*

	<u>Cars</u>	<u>Percent</u>
Excellent	50	13.51
Good	81	21.89
Satisfactory	72	19.46
Poor	13	3.51
<u>Didn't answer</u>	<u>154</u>	<u>41.62</u>
Total	370	99.99%

*Question 15.: What would you like changed in this Safety Rest Area building?*

	<u>Cars</u>
Improved facilities, (flush toilets, running water/sinks stalls with doors)	63
Nothing changed	21
Cleaner/better maintenance	16
Better security/policing/safety	5
More fire grills	3
More parking	2
Phones	2
Open year round	1
Other	14





# SHINGOBBE BAY SAFETY REST AREA USER SURVEY

Day of week:	Thurs.	Fri.	Sat.	Sun.	Mon.	Vehicle Type:	1	2	3	10	11	12	13	20	30	31	40
Date:	August	13	14	15	16	17	1992	Time In: _____									
Licensing State:	MN _____										Time Out: _____						
(specify other)																	

**Dear Motorist:**

The Minnesota Department of Transportation is attempting to determine how Safety Rest Areas along non-interstate highways are utilized and what facilities should be provided to satisfy your needs. Only you can supply the information we need to plan future Safety Rest Area facilities. Please answer the following questions:

1. Number of people in your vehicle? senior adults (over 60) \_\_\_\_\_ adults (16-59) \_\_\_\_\_ children (under 16) \_\_\_\_\_
2. Reason for your travel? business \_\_\_\_\_ vacation \_\_\_\_\_ personal \_\_\_\_\_
3. How long have you traveled since your last stop? hours \_\_\_\_\_ minutes \_\_\_\_\_ miles \_\_\_\_\_
4. How far do you generally travel between stops? hours \_\_\_\_\_ minutes \_\_\_\_\_ miles \_\_\_\_\_
5. What is the main reason you stopped at this safety rest area? **(check only one)**
  - rest room
  - rest/relax
  - eat/picnic
  - switch driver
  - sleep
  - water
  - check load/equipment
  - other \_\_\_\_\_

(please specify)
6. How many people in your party used the following?
  - rest room facilities \_\_\_\_\_
  - drinking water supply \_\_\_\_\_
7. Which of the following facilities were used by your party?
  - picnic table
  - rest rooms
  - boat ramp
  - travel information board
  - trash receptacle
  - pet exercise area
  - other \_\_\_\_\_

(please specify)
8. Do you think safety rest area construction and operation are a good use of motorist state tax money?
  - yes
  - no
9. When traveling, which facility do you prefer to use?
  - non-interstate highway rest areas
  - commercial facilities
10. If this facility was not available, where would you have stopped? **(check only one)**
  - local park
  - highway shoulder
  - continue driving
  - commercial facility
  - next town
  - other \_\_\_\_\_

(please specify)
11. What additional facilities would you like to see in non-interstate highway safety rest areas?  
\_\_\_\_\_
12. Do you typically look for a state map display at rest areas?  yes  no
13. What type of travel information would you like available at safety rest areas?  
\_\_\_\_\_
14. If commercial development were permitted at safety rest areas, which of the following would you prefer? **(check only one)**
  - vending machines
  - restaurant (fast food/take out)
  - no commercial development
  - restaurant (sit down)
  - gas and vehicle services
15. Please rate the building and grounds maintenance at this safety rest area?
  - excellent
  - good
  - satisfactory
  - poor
16. What would you like changed in this safety rest area building? \_\_\_\_\_

**COMMENTS** \_\_\_\_\_

**PLEASE RETURN SURVEY TO THE PEOPLE AT REST AREA EXIT.  
THANK YOU**