

## APPENDIX A

### Survey Questionnaire

#### NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM

Project 20-5, Synthesis Topic 32-01

#### Dealing with Truck Parking Demands

#### Questionnaire

It is nationally recognized that commercial motor vehicle operators frequently cannot find adequate, safe parking for rest purposes. Many state departments of transportation (DOTs) are experiencing a heavy demand for commercial vehicle parking at public rest areas that exceeds capacity. This survey is being conducted to gather information to determine what states are doing to address the problem of limited public and private truck rest facilities. Specific issues to be addressed include:

- Extent of the problem
- Rest area polices (e.g., state DOT actions, time limitations, and enforcement)
- Legislative authority (e.g., funding alternatives—partnerships, leveraging, loans)
- Communication/technology (e.g., ITS, radio, signage, and world wide web)
- Education (e.g., in-service training)
- State efforts (e.g., other solutions for meeting demand and increasing capacity using existing infrastructure)
- Security at rest areas.

The information you supply will provide valuable input to the development of a summary report of current research and practices addressing this important topic. Please return your completed questionnaire, along with any supporting documents by **August 10, 2001** to:

Jeffrey Trombly, Ph.D.  
102 Cypress Lane  
Oak Ridge, TN 37830

If you have any questions, please call Dr. Trombly at 865-481-8563, or email him at [jtrom457@aol.com](mailto:jtrom457@aol.com).

Below, please provide the name of the person completing this questionnaire or someone else who may be contacted to obtain needed follow-up information:

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Agency: \_\_\_\_\_

Street Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

## REFERENCES

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### Extent of the Problem

1. Where have shortages in commercial vehicle parking been observed? (check all that apply)

- In public rest areas
- Along freeway shoulders
- At designated pullouts/vista points
- At freeway interchange ramps
- On conventional highway roadsides
- On local streets near freeways
- In local commercial areas
- In private truck stops
- At highway weigh stations
- Other \_\_\_\_\_
- No significant problems

2. What problems have you observed due to unauthorized truck parking?

- Restriction of sight distance
- Obstacles in clear recovery zone for errant vehicles
- Litter
- Fuel/oil spillage
- Sanitation
- Soil erosion
- Shoulder damage
- Noise
- Dust
- Illegal activities
- Other \_\_\_\_\_

3. To what extent do cities and counties in your state restrict truck parking on local streets?

- None
- Somewhat, but not significantly
- Significantly enough to be a problem to commercial drivers

4. Have you seen shortages

- Increase over the last 5 years?
- Decrease over the last 5 years?
- Remain the same over the last 5 years?
- Don't know

5. Has your agency conducted or sponsored field studies documenting the extent of commercial vehicle shortages over the last 5 years?

- Yes
- No

**Rest Area Policies**

1. To what extent do cities and counties in your state restrict truck parking on local streets?

- None  
 Somewhat, but not significantly  
 Significantly enough to be a problem to commercial drivers

2. Does your agency place a time limit on parking by commercial vehicles at public rest areas?

- No  
 Yes. If Yes, do these limits apply to  all rest areas or  selected rest areas?  
 What is the time limit? \_\_\_\_\_ hours

3. How strictly are time limits enforced?

- Very strictly  
 Strictly  
 Not very strictly  
 Does not apply—no time limit

4. What are the various penalties for overtime parking violations in rest areas, and what is the due process for the carrier in regarding citation/protest resolution?

5. Does your agency allow truck parking on interchange ramps?

- Yes  
 No

6. Has your agency developed a statewide master rest areas policy, master plan, and/or improvement program for public rest area construction and maintenance?

- No  
 Yes. If Yes, what year was the plan developed?  
 Statewide Rest Area Policy \_\_\_\_\_  
 Rest Area Master Plan \_\_\_\_\_  
 Rest Area Improvement Program \_\_\_\_\_

Please describe the status of implementation of this plan in the space below.

7. Are all rest areas operated by your agency opened year round?

- Yes  
 No. If No, when and why are rest areas closed?  
 Closed during winter season  
 Other \_\_\_\_\_

8. Has your agency closed rest areas in the last 5 years and not replaced them at a new location?
- No  
 Yes. If Yes, why were rest areas closed? (check all that apply)
- Lack of user demand
  - Lack of operating funds
  - Lack of capital funds
  - Reduce incidence of crime
  - Other, please describe \_\_\_\_\_
9. Has your agency constructed new rest areas or expanded commercial vehicle parking at existing rest areas in the last 5 years?
- No  
 Yes. If Yes, how many new rest areas: \_\_\_\_\_ and how many spaces \_\_\_\_\_  
how many new commercial vehicle parking spaces: \_\_\_\_\_
10. What is the length of stay for truck parking you use for rest area design capacity?
- 20 minutes
  - 30 minutes
  - 1 hour
  - 2 hours
  - Other \_\_\_\_\_
11. Does your state's legislative/legal regulatory authority permit (yes or no):
- Flexibility in the percentage of rest area parking devoted to trucks?
  - Construction of truck-only rest areas?
  - Construction of roadside truck parking areas?
  - Partnership with the private sector in planning of rest areas?
  - Partnership with the private sector in planning truck parking areas?
  - Partnership with the private sector in constructing rest areas?
  - Partnership with the private sector in constructing parking areas?
  - Partnership with the private sector in constructing truck parking areas?
  - Partnership with the private sector in maintaining/operating rest areas?
  - Partnership with the private sector in maintaining/operating truck parking areas?
12. For which of the following do you maintain a current master plan?
- Rest areas
  - Roadside truck parking areas
13. What is your projected 5-year expenditures for:
- New rest areas? \$ \_\_\_\_\_  
Existing rest area rehabilitation/expansion? \$ \_\_\_\_\_  
Truck parking areas? \$ \_\_\_\_\_

14. How many truck parking spaces do you estimate these expenditures will add?

New rest areas \_\_\_\_\_  
 Existing rest area rehabilitation/expansion \_\_\_\_\_  
 Truck parking areas \_\_\_\_\_

15. Do you have examples/analysis or safety issues caused by trucks parked adjacent to highways?

\_\_\_ Yes  
 \_\_\_ No

**Improvement Strategies**

1. Presented here is a list of actions that may be implemented to expand the amount of available parking or improve the utilization of existing parking for commercial vehicles. Please rate the “Effectiveness” of these strategies in solving the parking shortage problem your state and the “Feasibility” of implementing these strategies in your state. Rate “Effectiveness” and “Feasibility” using a rating of “High,” “Medium,” and “Low.” Please feel free to add any strategies that you do not see on this list.

Strategy	Effectiveness in Solving Shortage Problem	Feasibility of Implementation
Build new rest areas for trucks only		
Build new rest areas for autos, trucks, and RVs		
Expand existing rest areas for truck parking by providing more truck spaces		
Expand existing rest areas for truck parking by permitting use of auto spaces at certain times		
Redesign parking configuration at existing rest areas to provide more spaces		
Build “pull offs” to provide parking		
Eliminate parking time enforcement (If your state does not have a time restriction, enter N/A)		
Permit the use of weigh stations for parking		
Locate law enforcement office substations at rest areas		
Establish a rating system for commercial truck stops		
Improve access to commercial truck stops (e.g., driveway design, curbing, etc.)		
Install security systems, cameras, and effective lighting		
Encourage the development of public-private partnerships		
Use park-and-ride lots		
Reopen closed rest areas		
Permit the use of federal-aid funds to maintain public rest areas		
Use ITS to expand amount of information available to truckers		
Conduct education campaign to encourage drivers to better plan trips		
Construct multi-use rest area facilities that also address tourism and truck inspection (e.g., safety, size and weight, diesel emissions testing) needs		

Establish federal assistance program targeted at truck parking		

2. Generally, how often do your state rest area and truck parking managers communicate or meet with the following stakeholders regarding rest area and truck parking? (S = seldom or not at all, O = occasionally or every few years, F = frequently, annually, or more often).

- Truck stop operators association
- Trucking association
- Highway law enforcement
- Local agency transportation planners
- Traffic safety organizations
- Automobile associations

PLEASE PROVIDE ANY ADDITIONAL COMMENTS BELOW:

**Thank You!**

Please enclose any information you may have on:

- Rest area parking demand versus capacity parking along roadway shoulders or at interchanges, and rest area use
- Commercial vehicle parking policies and plans
- Rest area master plans
- Any other relevant material.

## APPENDIX B

### List of Survey Respondents

California	•	Montana
Connecticut	•	Nebraska
Delaware	•	New Hampshire
Florida	•	New Jersey
Georgia	•	New York
Idaho	•	Ohio
Illinois	•	Oklahoma
Indiana	•	South Carolina
Iowa	•	Tennessee
Kansas	•	Texas
Kentucky	•	Wisconsin
Maine	•	Wyoming



## APPENDIX C

### Tables of Survey Responses

#### Extent of the Problem

<b>1. Where have shortages in commercial vehicle parking been observed?</b>	<b>Yes</b>	<b>No</b>	<b>Total</b>
In public rest areas	20	4	24
Along freeway shoulders	14	10	24
At designated pullouts/vista points	7	17	24
At freeway interchange ramps	17	7	24
On conventional highway roadsides	8	16	24
On local streets near freeways	8	16	24
In local commercial areas	8	16	24
In private truck stops	7	17	24
At highway weigh stations	5	19	24
Other: _____	0	24	24
No significant problems.	2	22	24

  

<b>2. What problems have you observed due to unauthorized truck parking?</b>	<b>Yes</b>	<b>No</b>	<b>Total</b>
Restriction of sight distance	20	4	24
Obstacles in clear recovery zone for errant vehicles	18	6	24
Litter	17	7	24
Fuel/oil spillage	11	13	24
Sanitation	14	10	24
Soil erosion	5	19	24
Shoulder damage	21	3	24
Noise	6	18	24
Dust	4	20	24
Illegal activities	4	20	24
Other: _____	2	22	24

**3. To what extent do cities and counties in your state restrict truck parking on local streets?**

	<b>Yes</b>	<b>No</b>	<b>Total</b>
None	2	22	24
Somewhat, but not significantly	14	10	24
Significantly enough to be a problem to commercial drivers	5	19	24

**4. Have you seen shortages:**

Increase over the last 5 years?	20
Decrease over the last 5 years?	4
Remain the same over the last 5 years?	0
Don't know	0

**5. Has your agency conducted or sponsored field studies documenting the extent of the commercial vehicle parking shortages over the last 5 years?**

Yes	16
No	8

**Rest Area Polices**

**1. To what extent do cities and counties in your state restrict truck parking on local streets?**

None	3
Somewhat, but not significantly	11
Significantly enough to be a problem to commercial drivers	6

**2. Does your agency place a time limit on parking by commercial vehicles at public rest areas?**

No	6
Yes	18
All rest areas	15
Selected rest areas	1

**3. How strictly are time limits enforced?**

Very strictly	0
Strictly	0
Not very strictly	18
Does not apply—no time limit	3

**4. What are the various penalties for overtime parking violations in rest areas, and what is the due process for the carrier in regarding citation/protest resolution?**

**5. Does your agency allow truck parking on interchange ramps?**

Yes	5
No	18

**6. Has your agency developed a statewide master rest areas policy, master plan, and/or improvement program for public rest area construction and maintenance?**

No	11
Yes	12

**7. Are all rest areas operated by your agency opened year round?**

Yes	18
No	6
Closed during winter season	6
Other: _____	0

**8. Has your agency closed rest areas in the last 5 years and not replaced them at a new location?**

No	20
Yes. If Yes, why were rest areas closed? (check all that apply)	4

Lack of user demand	1
Lack of operating funds	2
Lack of capital funds	2
Reduce incidence of crime	1
Other, please describe:	3

**9. Has your agency constructed new rest areas or expanded commercial vehicle parking at existing rest areas in the last 5 years?**

No	9
Yes	15

**10. What is the length of stay for truck parking you use for rest area design capacity?**

20 minutes	6
30 minutes	4
1 hour	0
2 hours	3
Other _____	5

**11. Does your state's legislative/legal/regulatory authority permit**

Flexibility in the percentage of rest area parking devoted to trucks?	18
Construction of truck-only rest areas?	12
Construction of roadside truck parking areas?	13
Partnership with the private sector in planning of rest areas?	7
Partnership with the private sector in planning truck parking areas?	7
Partnership with the private sector in constructing rest areas?	6
Partnership with the private sector in constructing parking areas?	3
Partnership with the private sector in constructing truck parking areas?	4
Partnership with the private sector in maintaining/operating rest areas?	10
Partnership with the private sector in maintaining/operating truck parking areas?	5

**12. For which of the following do you maintain a current master plan?**

	Yes	No	Total
Rest areas	13	9	22
Roadside truck parking areas	3	18	21

**13. What is your projected 5-year expenditure for**

New rest areas \$ \_\_\_\_\_

Existing rest area rehabilitation/expansion \$ \_\_\_\_\_

Truck parking areas \$ \_\_\_\_\_

**14. How many truck parking spaces do you estimate these expenditures will add?**

New rest areas \_\_\_\_\_

Truck parking areas \_\_\_\_\_

**15. Do you have examples/analysis or safety issues caused by trucks parked adjacent to highways?**

Yes 8

No 13

**Improvement Strategies**

1. Presented here is a list of actions that may be implemented to expand the amount of available parking or improve the utilization of existing parking for commercial vehicles. Please rate the “Effectiveness” of these strategies in solving the parking shortage problem your state and the “Feasibility” of implementing these strategies in your state. Rate “Effectiveness” and “Feasibility” using a rating of “High,” “Medium,” and “Low.” Please feel free to add any strategies that you do not see on this list.

**Improvement Strategies**

Strategy—Effectiveness	High	Medium	Low	No Response	N/A	Total
Build new rest areas for trucks only	9	6	7	2	0	24
Build new rest areas for autos, trucks, and RVs	4	13	5	2	0	24
Expand existing rest areas for truck parking by providing more truck spaces	7	12	3	2	0	24
Expand existing rest areas for truck parking by permitting use of auto spaces at certain times	2	5	15	2	0	24
Redesign parking configuration at existing rest areas to provide more spaces	2	9	11	2	0	24
Build “pull offs” to provide parking	6	5	9	4	0	24
Eliminate parking time enforcement (If your state does not have a time restriction, enter N/A)	1	1	10	2	10	24
Permit the use of weigh stations for parking	4	12	5	3	0	24
Locate law enforcement office substations at rest areas	2	3	17	2	0	24
Establish a rating system for commercial truck stops	2	3	17	2	0	24
Improve access to commercial truck stops (e.g., driveway design, curbing, etc.)	1	7	13	3	0	24

Install security systems, cameras, and effective lighting	3	4	15	2	0	24
Encourage the development of public-private partnerships	7	14	1	2	0	24
Use park-and-ride lots	2	4	14	3	1	24
Reopen closed rest areas	2	2	8	2	10	24
Permit the use of federal-aid funds to maintain public rest areas	4	9	9	2	0	24
Use ITS to expand amount of information available to truckers	7	12	2	2	0	24
Conduct education campaign to encourage drivers to better plan trips	3	5	14	2	0	24
Construct multi-use rest area facilities that also address tourism and truck inspection (e.g., safety, size and weight, diesel emissions testing) needs	1	7	14	2	0	24
Establish federal assistance program targeted at truck parking	10	8	4	2	0	24

### Improvement Strategies

Strategy—Feasibility	High	Medium	Low	No Response	N/A	Total
Build new rest areas for trucks only	1	1	20	2	0	24
Build new rest areas for autos, trucks, and RVs	5	4	12	2	0	24
Expand existing rest areas for truck parking by providing more truck spaces	6	9	7	2	0	24
Expand existing rest areas for truck parking by permitting use of auto spaces at certain times	2	5	15	2	0	24
Redesign parking configuration at existing rest areas to provide more spaces	2	6	14	2	0	24
Build “pull offs” to provide parking	3	1	16	4	0	24
Eliminate parking time enforcement (If your state does not have a time restriction, enter N/A)	0	1	11	2	10	24
Permit the use of weigh stations for parking	10	5	6	2	1	24
Locate law enforcement office substations at rest areas	5	3	14	2	0	24
Establish a rating system for commercial truck stops	0	5	17	2	0	24
Improve access to commercial truck stops (e.g., driveway design, curbing, etc.)	0	5	16	3	0	24
Install security systems, cameras, and effective lighting	4	4	14	2	0	24
Encourage the development of public-private partnerships	1	11	9	2	0	24

Use park-and-ride lots	2	2	16	3	1	24
Reopen closed rest areas	2	1	9	2	10	24
Permit the use of federal-aid funds to maintain public rest areas	2	6	14	2	0	24
Use ITS to expand amount of information available to truckers	5	15	2	2	0	24
Conduct education campaign to encourage drivers to better plan trips	1	4	17	2	0	24
Construct multi-use rest area facilities that also address tourism and truck inspection (e.g., safety, size and weight, diesel emissions testing) needs	1	6	15	2	0	24
Establish federal assistance program targeted at truck parking	3	9	9	3	0	24

**2. Generally, how often do your state rest area and truck parking managers communicate or meet with the following stakeholders regarding rest area and truck parking? (S = seldom or not at all, O = occasionally or every few years, F = frequently, annually, or more often)**

	<b>F</b>	<b>O</b>	<b>S</b>
Truck stop operators association	4	3	13
Trucking association	8	3	9
Highway law enforcement	9	4	7
Local agency transportation planners	5	2	13
Traffic safety organizations	7	2	11
Automobile associations	2	6	12