

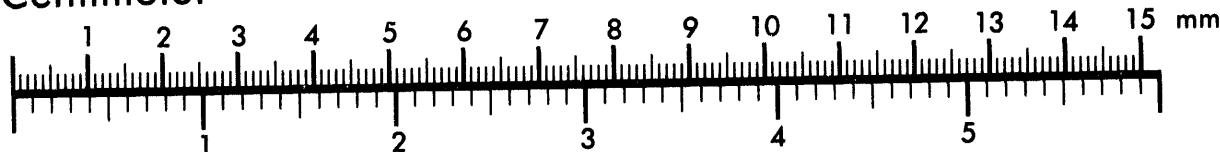


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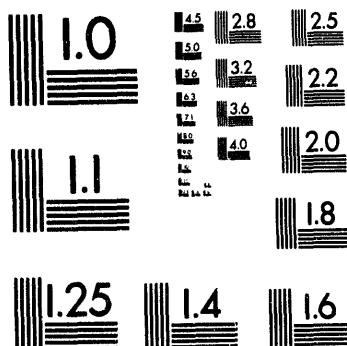
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Regulatory Facility Guide for Tennessee

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Transportation Management Division
Office of Environmental Restoration
and Waste Management
U.S. Department of Energy

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<u>Page</u>		<u>Current Edition</u>
	Title Page	Rev. 0, 02/94
iii	Acknowledgements	Rev. 0, 02/94
iv	Table of Contents	Rev. 0, 02/94
v	Table of Contents (continued)	Rev. 0, 02/94
vi	Table of Contents (continued)	Rev. 0, 02/94
vii	Introduction	Rev. 0, 02/94
viii	Introduction (continued)	Rev. 0, 02/94
ix	Acronyms	Rev. 0, 02/94
1-1	1.1 Shipper Activities	Rev. 0, 02/94
1-2	1.1 Shipper Activities (continued)	Rev. 0, 02/94
1-3	1.1 Shipper Activities (continued)	Rev. 0, 02/94
1-4	1.1 Shipper Activities (continued)	Rev. 0, 02/94
1-5	1.2 Carrier Activities	Rev. 0, 02/94
1-6	1.2 Carrier Activities (continued)	Rev. 0, 02/94
1-7	1.2 Carrier Activities (continued)	Rev. 0, 02/94
1-8	1.3 Receiver Activities	Rev. 0, 02/94
2-1	2.1 Shipper Operations Jurisdiction	Rev. 0, 02/94
2-2	2.1 Shipper Operations Jurisdiction (continued)	Rev. 0, 02/94
2-3	2.1 Shipper Operations Jurisdiction (continued)	Rev. 0, 02/94
2-4	2.1 Shipper Operations Jurisdiction (continued)	Rev. 0, 02/94
2-5	2.1 Shipper Operations Jurisdiction (continued)	Rev. 0, 02/94
2-6	2.1 Shipper Operations Jurisdiction (continued)	Rev. 0, 02/94
2-7	2.2 Carrier Operations Jurisdiction	Rev. 0, 02/94
2-8	2.2 Carrier Operations Jurisdiction (continued)	Rev. 0, 02/94
2-9	2.2 Carrier Operations Jurisdiction (continued)	Rev. 0, 02/94
3-1	3.1 State Transit Table	Rev. 0, 02/94
3-2	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-3	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-4	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-5	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-6	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-7	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-8	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-9	3.1 State Transit Table (continued)	Rev. 0, 02/94
3-10	3.2 Tribal Transit Table	Rev. 0, 02/94
4	RFG Preferred Routes (alphabetical by state)	Rev. 0, 02/94
	Appendix A - References	Rev. 0, 02/94
	Appendix B - Directory of State Transportation Agencies and Senior Officials	Rev. 0, 02/94
	Appendix C - Import/Export Information and Requirements	Rev. 0, 02/94

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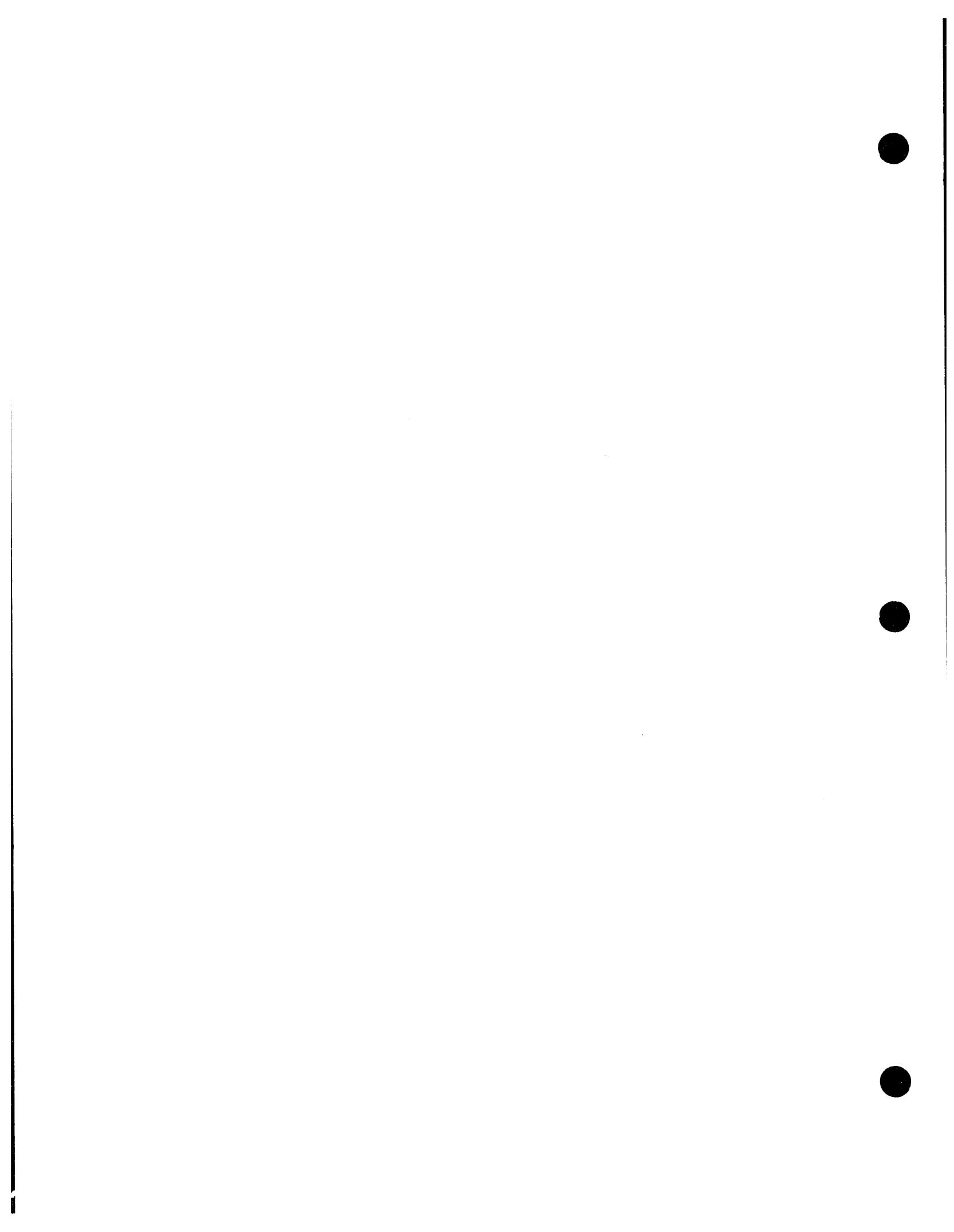


TABLE OF CONTENTS

	Page
Introduction	vii
Acronyms	ix
1. Part 1 - RFG Summary Tables	
1.1 Shipper Activities	1-1
1.2 Carrier Activities	1-6
1.3 Receiver Activities	1-10
2. Part 2 - Operations Jurisdiction Tables	
2.1 Shipper Operations Jurisdiction	2-1
2.2 Carrier Operations Jurisdiction	2-7
3. Part 3 - RFG Transit Tables	
3.1 State Transit	3-1
3.2 Tribal Transit	3-10
4. Part 4 - RFG Preferred Routes and Maps	
4.1 Alabama Preferred Routes	
4.1.1 Alabama Preferred Routes Map	
4.2 Arizona Preferred Routes	
4.2.1 Arizona Preferred Routes Map	
4.3 Arkansas Preferred Routes	
4.3.1 Arkansas Preferred Routes Map	
4.4 California Preferred Routes	
4.4.1 California Preferred Routes Map	
4.4.2 Southern California Preferred Routes Map	
4.4.3 Northern California Preferred Routes Map	
4.5 Colorado Preferred Routes	
4.5.1 Colorado Preferred Routes Map	
4.5.2 Colorado (Denver and vicinity) Preferred Routes Map	
4.6 Connecticut Preferred Routes	
4.6.1 Connecticut Preferred Routes Map	
4.7 Delaware Preferred Routes	
4.7.1 Delaware Preferred Routes Map	
4.8 District of Columbia Preferred Routes	
4.9 Florida Preferred Routes	
4.9.1 Florida Preferred Routes Map	
4.10 Georgia Preferred Routes	
4.10.1 Georgia Preferred Routes Map	

TABLE OF CONTENTS (Continued)

- 4.11 Idaho Preferred Routes
 - 4.11.1 Idaho Preferred Routes Map
- 4.12 Illinois Preferred Routes
 - 4.12.1 Illinois Preferred Routes Map
- 4.13 Indiana Preferred Routes
 - 4.13.1 Indiana Preferred Routes Map
- 4.14 Iowa Preferred Routes
 - 4.14.1 Iowa Preferred Routes Map
- 4.15 Kansas Preferred Routes
 - 4.15.1 Kansas Preferred Routes Map
- 4.16 Kentucky Preferred Routes
 - 4.16.1 Kentucky Preferred Routes Map
- 4.17 Louisiana Preferred Routes
 - 4.17.1 Louisiana Preferred Routes Map
- 4.18 Maine Preferred Routes
 - 4.18.1 Maine Preferred Routes Map
- 4.19 Maryland Preferred Routes
 - 4.19.1 Maryland Preferred Routes Map
- 4.20 Massachusetts Preferred Routes
 - 4.20.1 Massachusetts Preferred Routes Map
- 4.21 Michigan Preferred Routes
 - 4.21.1 Michigan Preferred Routes Map
- 4.22 Minnesota Preferred Routes
 - 4.22.1 Minnesota Preferred Routes Map
- 4.23 Mississippi Preferred Routes
 - 4.23.1 Mississippi Preferred Routes Map
- 4.24 Missouri Preferred Routes
 - 4.24.1 Missouri Preferred Routes Map
- 4.25 Montana Preferred Routes
 - 4.25.1 Montana Preferred Routes Map
- 4.26 Nebraska Preferred Routes
 - 4.26.1 Nebraska Preferred Routes Map
- 4.27 Nevada Preferred Routes
 - 4.27.1 Nevada Preferred Routes Map
- 4.28 New Hampshire Preferred Routes
 - 4.28.1 New Hampshire Preferred Routes Map
- 4.29 New Jersey Preferred Routes
 - 4.29.1 New Jersey Preferred Routes Map
- 4.30 New Mexico Preferred Routes
 - 4.30.1 New Mexico Preferred Routes Map
- 4.31 New York Preferred Routes
 - 4.31.1 New York Preferred Routes Map

TABLE OF CONTENTS (Continued)

- 4.32 North Carolina Preferred Routes
 - 4.32.1 North Carolina Preferred Routes Map
- 4.33 North Dakota Preferred Routes
 - 4.33.1 North Dakota Preferred Routes Map
- 4.34 Ohio Preferred Routes
 - 4.34.1 Ohio Preferred Routes Map
- 4.35 Oklahoma Preferred Routes
 - 4.35.1 Oklahoma Preferred Routes Map
- 4.36 Oregon Preferred Routes
 - 4.36.1 Oregon Preferred Routes Map
- 4.37 Pennsylvania Preferred Routes
 - 4.37.1 Pennsylvania Preferred Routes Map
- 4.38 Rhode Island Preferred Routes
 - 4.38.1 Rhode Island Preferred Routes Map
- 4.39 South Carolina Preferred Routes
 - 4.39.1 South Carolina Preferred Routes Map
- 4.40 South Dakota Preferred Routes
 - 4.40.1 South Dakota Preferred Routes Map
- 4.41 Tennessee Preferred Routes
 - 4.41.1 Tennessee Preferred Routes Map
- 4.42 Texas Preferred Routes
 - 4.42.1 Texas Preferred Routes Map
 - 4.42.2 Texas (Dallas-Fort Worth area) Preferred Routes Map
- 4.43 Utah Preferred Routes
 - 4.43.1 Utah Preferred Routes Map
- 4.44 Vermont Preferred Routes
 - 4.44.1 Vermont Preferred Routes Map
- 4.45 Virginia Preferred Routes
 - 4.45.1 Virginia Preferred Routes Map
- 4.46 Washington Preferred Routes
 - 4.46.1 Washington Preferred Routes Map
- 4.47 West Virginia Preferred Routes
 - 4.47.1 West Virginia Preferred Routes Map
- 4.48 Wisconsin Preferred Routes
 - 4.48.1 Wisconsin Preferred Routes Map
- 4.49 Wyoming Preferred Routes
 - 4.49.1 Wyoming Preferred Routes Map

Appendix A

Appendix B

Appendix C

References

Contacts Directory

Import/Export Information and Requirements

Regulatory Facility Guide for Tennessee

This Regulatory Facility Guide (RFG) has been developed for the U. S. Department of Energy (DOE) and contractor facilities located in the state of Tennessee. It provides detailed compilations of international, federal, and state transportation-related regulations applicable to shipments originating at or destined to Tennessee facilities. This RFG was developed as an *additional* resource tool for use both by traffic managers who must ensure that transportation operations are in full compliance with all applicable regulatory requirements and by oversight personnel who must verify compliance activities.

This document is a resource tool. It is to be used as an index to guide you through the process of completing the type of shipment required. Its use is not to be substituted for the applicable regulations.

The RFG communicates information by means of summarized tables which guide the user to specific citations pertaining to a variety of transportation operations. The RFG consists of four main parts.

Part 1 contains the RFG Summary Tables for shippers, carriers, and receivers. These summary tables are constructed in a way that quickly points the user to the international, federal, or state citation codes pertaining to each designated activity. In the first table shown, **SHIPPER ACTIVITIES**, the first activity listed is **Carrier Qualifications**. As the user looks across the row/page from left to right, the first regulation listed under **RSPA** (Research and Special Programs Administration) can be found in the *Code of Federal Regulations (CFR)*, Title 49, between sections 100 and 199. For the specific CFR regulation, look at the 49 CFR 100-199 column directly across from the **Carrier Qualifications** activity. Therefore, for **Carrier Qualifications**, the specific CFR reference can be found in **49 CFR 171.1; 49 CFR 171.2(a); 49 CFR 174.7; 49 CFR 175.20; 49 CFR 176.13; and 49 CFR 177.800**. Where no regulation requirement has been identified, (e.g. refer to **DOC**, **15 CFR**, **19 CFR** for **Carrier Qualifications**), the column is left blank.

Part 2 consists of Operations Jurisdiction Tables for the shipper and carrier. These jurisdiction tables provide detailed information for specific types of shipments and various carrier operations. They are formatted in the same manner as the activity tables so that the user is guided from the left-hand column which lists the detailed types of shipments across the page to the applicable agency and regulations for those shipments.

Part 3 contains the Transit Tables for states and federally-recognized tribal entities which provide state and tribal information for the states through which the transportation routes

traverse. It provides identification of offices which need to be notified, telephone numbers, permit requirements, and other pertinent information. The tribal information, which is not complete at this time and will be further developed during FY 1994, will be included in all future updates.

Part 4 consists of "preferred routes" satisfying the 49 CFR 177.825 requirements for the transport of highway route controlled quantities of radioactive materials for each state, including alternative routes designated by the state. In addition, a map of each state (excluding Alaska and Hawaii) which shows the "preferred routes" is also provided.

There are three appendices: Appendix A provides a list of references used in the guide; Appendix B provides a contacts directory; and Appendix C provides import/export information and requirements. There is also an RFG List of Acronyms which appears on page ix of this document.

Since the RFGs are an evolving set of documents; corrections, comments, and suggested additions are solicited. Please provide comments to:

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List of Acronyms

CFR	Code of Federal Regulations
CMV	Commercial Motor Vehicle
DIR	Regulations are directly applicable to the operation.
DOC	Department of Commerce
DOE	Department of Energy
DOT	Department of Transportation
EPA	Environmental Protection Agency
FAA	Federal Aviation Administration
FHWA	Federal Highway Administration
FMCSR	Federal Motor Carrier Safety Regulations
FRA	Federal Railroad Administration
HM or HAZMAT	Hazardous Materials
HMR	Hazardous Materials Regulations
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ICC	Interstate Commerce Commission
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LNG	Liquified natural gas
NRC	Nuclear Regulatory Commission
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated biphenyl
RSPA	Research and Special Programs Administration
RFG	Regulatory Facility Guide
TCA	Tennessee Codes Annotated
TN	Tennessee
TPSC	Tennessee Public Service Commission

PART I. RFG SUMMARY TABLES

SHIPPER ACTIVITIES

Shipper Activity	RSPA	FRA	FHWA	ICC	EPA	OSHA	FAA	NRC	DOC 15 CFR 19 CFR	State of TN	DOE Orders	IATA	IMO/ IMDG	
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR						
1. Carrier Qualifications	171.1 171.2(a) 171.2(b) 174.7 175.20 176.13 177.800	213 215 219	385 387 390.3	1035 1043.2 1051 1150-1174 1312 1330	263.11	1910.120	121	71.5		TCA Title 65 Chapter 15 65-15-107 65-15-108 65-15-110 65-15-113 ----- TPSC Rule Numbers: 1220-2-1-18 1220-2-1-19 1220-2-1-20 1220-2-1-32	1540.1 5480.4	1.4		
2. Carrier Selection	171.1 171.2(a) 171.2(b) 174.7 175.20 176.13 177.800	213 215 219	385 387 390.3	1035 1043.2 1051 1150-1174 1312 1330	263.11	1910.120	121	71.5		TCA 65-15-107 65-15-108 65-15-110 65-15-113 ----- TPSC Rule Numbers: 1220-2-1-18 1220-2-1-19 1220-2-1-20 1220-2-1-32	1540.1 5480.4			
3. Emergency Response	172 Subpart G	225	390.15		117 302	1910.120		71.5		TCA 58-2-301 et seq 49 CFR 172 Subpart G 225 390.15 40 CFR 117 302	5000.3B	2.9.2/ USG-17, 8.1.6.12		
4. Hazardous Material	171.8 172									49 CFR 171.8	1540.1 5480.3	3 49 CFR 171.11	49 CFR 171.12	
5. Hazardous Substance	171.8 172.101, App. A				117 302					49 CFR 171.8	1540.1 5480.3	2.9.2/ USG-01 3.9	ALL CODES APPLY	

SHIPPER ACTIVITIES

Shipper Activity	RSPA	PRA	PHWA	ICC	EPA	OSHA	FAA	NRC	DOC 15 CFR 19 CFR	State of TN	DOE Orders	IATA	IMO/ IMDG
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR					
6. Hazardous Waste	171.3 171.8				261.3					49 CFR 171.8 40 CFR 261.3	1540.1 5480.3	2.9.2/ USG-01	ALL CODES APPLY
7. HM Segregation	174.81 175.78 176 Subpart D 177.842 177.848							71.5		49 CFR 174.81 175.78 176.83 177.842 177.848	1540.1 5480.3	9.3.2 Table 9.3.A	Gen. Intro. Sect.15,18
8. Labeling	172 Subpart E				262.31			71.5		49 CFR 172 Subpart E 40 CFR 262.31	1540.1 5480.3	6.4, 7.2	Gen. Intro. Sect.7,8
9. Loading/ Unloading	174 Subpart C 175 Subpart B 176 Subpart C 177 Subpart B		392.9					71.5		49 CFR 174 Subpart C 175 Subpart B 176 Subpart C 177 Subpart B	1540.1 5480.3	9.3	Gen. Intro. Sect.17
10. Manifest	172.205				262 Subpart B 263 Subpart B					49 CFR 172.205 40 CFR 262 Subpart B 263 Subpart B	1540.1 5480.1B 5480.3	2.9.2/ USG-01 II(a)	Gen. Intro. Sect.9
11. Marking	172 Subpart D				262.32			71.5		49 CFR 172 Subpart D 40 CFR 262.32	1540.1 5480.3	6.3 7.1	Gen. Intro. Sect.7,8 Annex I
12. Packaging	173 178 179 180				262.30			71		49 CFR 173 178 179 180 40 CFR 262.30	1540.1 1540.2 5480.3	5,10	Annex I
13. PCB/ Asbestos	173.140				761 763					49 CFR 173.140 40 CFR 761 763	1540.1 5480.3	3.9 4.2	Vol.V Class 9

SHIPPER ACTIVITIES

Shipper Activity	RSPA	FRA	FHWA	ICC	EPA	OSHA	FAA	NRC	DOC 15 CFR 19 CFR	State of TN	DOE Orders	IATA	IMO/ IMDG
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR					
14. Placarding	172 Subpart F				262.33			71.5		49 CFR 172 Subpart F 40 CFR 262.33	1540.1 5480.3		Gen. Intro. Sect.7,8
15. Radioactive Material	173 Subpart I				117 302			20.3 (13), 70		49 CFR 173 Subpart I 40 CFR 117 302	1540.1 5480.1B	1.3.3.3 6	Vol.IV, Class 7
16. Records	172 Subpart C			1035 1051 1081	262 Subpart D	1910.120		71.5		49 CFR 172 Subpart C 1035 1051 1081 40 CFR 262 Subpart D	1540.1 5480.1B 5480.3	2.9.2/ USG-18	Gen. Intro. Sect.9
17. Reporting	171.15 171.16	225	390.15		117 263.30 302	1910.120		71.5		49 CFR 171.15 171.16 390.15	1540.1 5000.3B 5480.3	9.5.5	
18. Shipping Papers	172 Subpart C			1035 1051 1081	262 Subpart B 263 Subpart B			71.5		49 CFR 172 Subpart C 40 CFR 262 Subpart B 263 Subpart B	1540.1 5480.3	2.9.2/ USG-17 6.6 8	Gen. Intro. Sect.7,9
19. Temporary Storage	174.81 175.78 176.83 177.842 177.848				262.34 263.12			71.5		49 CFR 174.81 175.78 176.83 177.842 177.848 40 CFR 262.34 263.12	1540.1 5480.3	9.2	

SHIPPER ACTIVITIES

Shipper Activity	RSPA	FRA	HIWA	ICC	EPA	OSHA	FAA	NRC	DOC 15 CFR 19 CFR	State of TN	DOE Orders	IATA	IMO/ IMDG
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR					
20. Tiedowns	174 175 176 177		393 Subpart I					71.5		49 CFR 174 175 176 177 49 CFR 393 Subpart I	1540.1 5480.3	9.3.5	
21. Training	172 Subpart H 173.1(b) 173.403(i) 174.7 175.20 176.13 177.800(b) 177.816 177.825		390.3			1910.120	135 Subpart H	71.5		49 CFR 172 Subpart H 173.1(b) 173.403(i) 174.7 175.20 176.13 177.800(b) 177.816 177.825 390.3	1540.1 5480.3 5480.4 5480.18A	1.5	
22. Import/ Export	173.477 173.478 171.12								** 15 CFR 301.1 301.3 700-799 19 CFR 10.101 10.103 10.171-10.198 10.67 11 101.3 141.11 141.46 141.61 141.66 141.83 141.86 141.89 141.102 143.21 145 Subpart E 159 Subpart B 161.2				

** Please see Appendix C for further information and requirements of the Arms Export Control Act (AECA) and the Department of the Treasury's Office of Foreign Assets Control (OFAC).

CARRIER ACTIVITIES

Carrier Activity	RSPA	FRA	PHWA	ICC	EPA	OSHA	FAA	NRC	State of TN	DOE Orders	IATA	IMO/ IMDG
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR				
1. Blocking/ Bracing	177 Subpart B		393.104		262.31			71.5	49 CFR 177 Subpart B 40 CFR 262.31	1540.1 5480.3 5480.4	9.3	Gen. Intro. Sect.12 App.Resol. A.288(VIII)
2. Drug Testing		219	391 Subpart H				121		49 CFR 219 391 Subpart H	1540.1 5480.4		
3. Emergency Response	172 Subpart G	225	390.15		263.30 263.31	1910.120			TCA 58-2-301 et seq 49 CFR 172 Subpart G 225 390.15 40 CFR 263.30 263.31	5000.3B	2.9.2/ USG-17	
4. Hazardous Material	171.8 172							71.5	49 CFR 171.8	1540.1 5480.3	3	ALL CODES APPLY
5. Hazardous Substance	171.8				117 302				49 CFR 171.8 40 CFR 117 302	1540.1 5480.3	2.9.2/ USG-01 3.9	ALL CODES APPLY
6. Hazardous Waste	171.3 171.8				260 261.3				49 CFR 171.8 40 CFR 260 261.3	1540.1 5480.3	2.9.2 USG-01	ALL CODES APPLY
7. HM Segregation	174.81 175.78 176 Subpart D 177.842 177.848							71.5	49 CFR 174.81 175.78 176.83 177.842 177.848 40 CFR 174.81 175.78 176.83 177.842 177.848	1540.1 5480.3	9.3.2 Table 9.3.A	Gen. Intro. Sect.15,17
8. Labeling	172 Subpart E				262.31			71.5	49 CFR 172 Subpart E 40 CFR 262.31	1540.1 5480.3	6.4 7.2	Gen. Intro. Sect.7.8

CARRIER ACTIVITIES

Carrier Activity	RSPA	FRA	PHWA	ICC	EPA	OSHA	FAA	NRC	State of TN	DOE Orders	IATA	IMO/ IMDG
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR				
9. Licensing	177.804		383					71.5	49 CFR 177.804 · 383	1540.1 5480.4		
10. Loading/ Unloading	174 Subpart C 175 Subpart B 176 Subpart C 177 Subpart B		392.9					71.5	49 CFR 174 Subpart C 175 Subpart B 176 Subpart C 177 Subpart B	1540.1 5480.3	9.3	Gen. Intro. Sect.17
11. Marking	172 Subpart D				262.32			71.5	49 CFR 172 Subpart D 40 CFR 262.32	1540.1 5480.3	6.3 7.1	Gen. Intro. Sect.7,8 Annex I
12. Non-Haz Material										1540.1 5480.4		
13. Operator Quality			391							1540.1 1540.2 5480.3 5480.4	1.4	
14. Packaging	173 178 179 180				262.30			71	49 CFR 173 178 179 180 40 CFR 262.30	1540.1 5480.3	5,10	Gen. Intro. Sect.10,17 Annex I
15. Placarding	172 Subpart F				262.33			20.3 (13)	49 CFR 172 Subpart F 40 CFR 262.33	1540.1 5480.1 5480.3		Gen. Intro. Sect.7,8
16. Records	171.16(b) 172 Subpart C		397.19 390.15	1035 1051 1081	262 Subpart D			71.5	49 CFR 171.16(b) 390.15 397.19 172 Subpart C 1035 1051 1081 40 CFR 262 Subpart D	1540.1 5480.1B 5480.3	2.9.2/ USG-18	Gen. Intro. Sect.9

CARRIER ACTIVITIES

Carrier Activity	RSPA	FRA	PHWA	ICC	EPA	OSHA	FAA	NRC	State of TN	DOE Order	IATA	IMO/ IMDG	
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR					
17. Reporting	171.15 171.16	225	390.15		117 263.30 302	1910.120		71.5	TCA 58-2-301 et seq 49 CFR 171.15 171.16 225 390.15 40 CFR 117 263.30 302	1540.1 5000.3B 5480.3	9.5.5		
18. Shipping Papers	172 Subpart C			1035 1051 1081	262 Subpart B 263 Subpart B			71.5	49 CFR 172 Subpart C 40 CFR 262 Subpart B 263 Subpart B	1540.1 5480.3	2.9.2/ USG-17 6.6 8	Gen. Intro. Sect.7.9	
19. Tiedowns	174 175 176 177		393 Subpart I					71.5	49 CFR 174 175 176 177 393 Subpart I	1540.1 5480.3 5480.4	9.3.5	Gen. Intro. Sect.12 Resol. A.288(VIII)	
20. Training	172 Subpart H 174.7 175.20 176.13 177.800(b) 177.816 177.825		390.3			1910.120	135 Subpart H	71.5	49 CFR 172 Subpart H 174.7 175.20 176.13 177.800(b) 177.816 177.825 390.3	1540.1 5480.3 5480.4	1.5		
21. Vehicle Inspection	177.804		392.7 392.8 392.9 396				109 Sub-chapter G, 121		49 CFR 177.804 392.7 392.8 392.9 396	1540.1 5480.4			
22. Vehicle Maintenance	177.804		392.7 392.8 392.9 396				109 Sub-chapter G, 121	71.5	49 CFR 177.804 392.7 392.8 392.9 396	1540.1 5480.4			

RECEIVER ACTIVITIES

Receiver Activity	RSPA	PRA	PHWA	ICC	EPA	OSHA	FAA	NRC	DOC	State of TN	DOE Orders	IATA
	49 CFR 100-199	49 CFR 200-299	49 CFR 300-399	49 CFR 1000-1399	40 CFR 1-799	29 CFR	14 CFR	10 CFR	15 CFR 19 CFR			
1. Emergency Response					117 264 Subpart C 302	1910.38 1910.120				TCA 58-2-301 et seq	5000.3B	29.2/ USG-17
2. HM Segregation												9.3.2 Table 9.3.A
3. Inspection of Receipt												1540.1
4. Records					264 Subpart E							5000.3B
5. Reporting					117 302	1910.120						5000.3B
6. Training					264.16 265.16	1910.120				40 CFR 264.16 265.16 29 CFR 1910.120	5480.18A 5480.20	
7. Import/Export	171.12 173.477 173.478									** 15 CFR 301.1 301.3 700-799 19 CFR 10.67 10.101 10.103 10.171-10.198 11 101.3 141.11 141.46 141.61 141.66 141.83 141.86 141.89 141.102 143.21 145 Subpart E 159 Subpart B 161.2		

** Please see Appendix C for further information and requirements of the Arms Export Control Act (AECA) and the Department of the Treasury's Office of Foreign Assets Control (OFAC).

PART 2. OPERATIONS INSTRUCTION TABLES

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations								
	RSPA HMR 49 CFR 171.11, 171.12	ICAO/ IATA	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926	TPSC, TCA 65-15-110 65-15-113	IMO/IMDG	DOC** 15 CFR 19 CFR
INTERNATIONAL SHIPPING OPERATIONS*									
1. Non Hazmat Non Radioactive Non Waste Non Haz Substance				Note 2				*	*
2. Hazmat Non Radioactive Non Waste Non Haz Substance	*	*		Note 1		*	*	*	
3. Hazmat Non Radioactive Non Waste Haz Substance	*	*		Note 1	*	*	*	*	
4. Hazmat Radioactive Non Waste Non Haz Substance	*	*		Note 1		*	*	*	*
5. Hazmat Radioactive Non Waste Haz Substance	*	*		Note 1	*	*	*	*	
6. Spent Fuel TRU Waste Highway Route Controlled Quantity	*	*		Note 1		*	*	*	*

* International Shipping Operations refers to the international portion of a shipment which may also involve intra- or inter-state shipping segments. For those segments, refer to pages 2-2 - 2-6.

* Applicable agency/regulation.

** Please see Appendix C for further information and requirements of the Arms Export Control Act (AECA) and the Department of the Treasury's Office of Foreign Assets Control (OFAC).

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B, 5633.5

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B, 5633.5

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations					
	RSPA (HMR) 49 CFR 171.1	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926	TPSC, TCA Title 65-15-110 65-15-113
INTERSTATE SHIPPING OPERATIONS						
7. Non Hazmat Non Radioactive Non Waste Non Haz Substance	*		Note 2			*
8. Hazmat Non Radioactive Non Waste Non Haz Substance	*		Note 1		*	*
9. Hazmat Non Radioactive Non Waste Haz Substance	*		Note 1	*	*	*
10. Hazmat Non Radioactive Waste Non Haz Substance	*		Note 1	*	*	*
11. Hazmat Non Radioactive Waste Haz Substance	*		Note 1	*	*	*
12. Hazmat Radioactive Non Waste Non Haz Substance	*	**	Note 1		*	*
13. Hazmat Radioactive Non Waste Haz Substance	*	**	Note 1	*	*	*

* Applicable agency/regulation.

** Applies if shipment is in NRC-certified package.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations						TPSC, TCA Title 65-15-110 65-15-113
	RSPA (HMR) 49 CFR 171.1	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926		
INTERSTATE SHIPPING OPERATIONS (CONTINUED)							
14. Hazmat Radioactive Waste Non Haz Substance	*	**	Note 1	*	*	*	*
15. Hazmat Radioactive Waste Haz Substance	*	**	Note 1	*	*	*	*
16. Spent Fuel TRU Waste Highway Route Controlled Quantity	*	*	Note 1	*	*	*	*
INTRASTATE SHIPPING OPERATIONS							
17. Non Hazmat Non Radioactive Non Waste Non Haz Substance			Note 2				*
18. Hazmat Non Radioactive Non Waste Non Haz Substance	*		Note 1		*	*	*
19. Hazmat Non Radioactive Non Waste Haz Substance	*		Note 1	*	*	*	*

* Applicable agency/regulation.

** Applies if shipment is in NRC-certified package.

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations					
	RSPA (HMR) 49 CFR 171.1	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926	TPSC, TCA Title 65-15-110 65-15-113
20. Hazmat Non Radioactive Waste Non Haz Substance	*		Note 1	*	*	*
INTRASTATE SHIPPING OPERATIONS (CONTINUED)						
21. Hazmat Non Radioactive Waste Haz Substance	*		Note 1	*	*	*
22. Hazmat Radioactive Non Waste Non Haz Substance	*	**	Note 1		*	*
23. Hazmat Radioactive Non Waste Haz Substance	*	**	Note 1		*	*
24. Hazmat Radioactive Waste Non Haz Substance	*	**	Note 1	*	*	*
25. Hazmat Radioactive Waste Haz Substance	*	**	Note 1	*	*	*
26. Spent Fuel TRU Waste Highway Route Controlled Quantity	*	*	Note 1	*	*	*

* Applicable agency/regulation.

** Applies if shipment is in NRC-certified package.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

RFG for TENNESSEE, Page 2-4

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations					
	RSPA (HMR) 49 CFR 171.1	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926	TPSC, TCA Title 65-15-110 65-15-113
ROADS WITHOUT ACCESS CONTROLS SHIPPING OPERATIONS						
27. Non Hazmat Non Radioactive Non Waste Non Haz Substance			Note 2			*
28. Hazmat Non Radioactive Non Waste Non Haz Substance	*		Note 1		*	*
29. Hazmat Non Radioactive Non Waste Haz Substance	*		Note 1	*	*	*
30. Hazmat Non Radioactive Waste Non Haz Substance	*		Note 1	*	*	*
31. Hazmat Non Radioactive Waste Haz Substance	*		Note 1	*	*	*
32. Hazmat Radioactive Non Waste Non Haz Substance	*	**	Note 1		*	*
33. Hazmat Radioactive Non Waste Haz Substance	*	**	Note 1	*	*	*

* Applicable agency/regulation.

** Applies if shipment is in NRC-certified package.

SHIPPER OPERATIONS JURISDICTION TABLE

SHIPPER OPERATIONS DESCRIPTION	Regulatory Agency/Applicable Regulations					
	RSPA (HMR) 49 CFR 171.1	NRC 10 CFR 71	DOE Orders	EPA 40 CFR 61, 117, 240-272, 302 (CERCLA) 760-761	OSHA 29 CFR 1900-1926	TPSC, TCA Title 65-15-110 65-15-113
ROADS WITHOUT ACCESS CONTROLS SHIPPING OPERATIONS (CONTINUED)						
34. Hazmat Radioactive Waste Non Haz Substance	*	**	Note 1	*	*	*
35. Hazmat Radioactive Waste Haz Substance	*	**	Note 1	*	*	*
36. Spent Fuel TRU Waste Highway Route Controlled Quantity	*	*	Note 1	*	*	*

* Applicable agency/regulation.

** Applies if shipment is in NRC-certified package.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

CARRIER OPERATIONS JURISDICTION TABLE

CARRIER OPERATIONS DESCRIPTION	REGULATORY AGENCY/APPLICABLE REGULATIONS						TCA
	RSPA	FHWA		EPA	DOE	TCA	
	HMR 49 CFR 171.11, 171.15	FMCSR 49 CFR Part 383.23	FMCSR 49 CFR Part 390- 397	40 CFR 240-272	DOE Orders	TPSC Title 65	
INTERSTATE CARRIER OPERATIONS							
1. CMV > 26k lb, No Hazmat	*	*	DIR 390.3		Note 1	DIR 65-15-113(a)(2)	DIR
2. CMV > 26k lb, Hazmat	*	*	DIR 390.3		Note 1	DIR 65-15-113(a)(3)	DIR
3. 10k < CMV < 26k lb, No Hazmat			DIR 390.3		Note 2	DIR 65-15-113(a)(2)	DIR
4. 10k < CMV < 26k lb, Hazmat	*		DIR 390.3		Note 1	DIR 65-15-113(a)(3)	DIR
5. MV < 10k lb, Hazmat	*		PSC		Note 1	DIR 65-15-113(a)(3)	DIR
6. Any Placarded Quantity of Hazmat	*	*	DIR 390.3		Note 1	DIR 65-15-113(a)(3)	DIR
7. CMV > 26k lb, Hazardous Waste	*	*	DIR 390.3	DIR 263.10	Note 1	DIR 65-15-113(a)(3)	DIR
8. 10k < CMV < 26k lb, Hazardous Waste	*		DIR 390.3	DIR 263.10	Note 1	DIR 65-15-113(a)(3)	DIR
9. MV < 10k lb, Hazardous Waste	*		PSC	DIR 263.10	Note 1	DIR 65-15-113(a)(3)	DIR
INTRASTATE/INTERCITY CARRIER OPERATIONS							
10. CMV > 26k lb, No Hazmat		*	PSC		Note 2	DIR 65-15-113(a)(3)	DIR
11. CMV > 26k lb, Hazmat	*	*	PSC		Note 1	DIR 65-15-113(a)(3)	DIR
12. 10k < CMV < 26k lb, No Hazmat			PSC		Note 2	DIR 65-15-113(a)(2)	DIR
13. 10k < CMV < 26k lb, Hazmat	*		PSC		Note 1	DIR 65-15-113(a)(3)	DIR
14. MV < 10k lb, Hazmat	*		PSC		Note 1	DIR 65-15-113(a)(3)	DIR

* - Applicable agency/regulation.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

CARRIER OPERATIONS JURISDICTION TABLE

CARRIER OPERATIONS DESCRIPTION	REGULATORY AGENCY/APPLICABLE REGULATIONS					
	RSPA	FHWA		EPA	DOE	TCA
	IHM 49 CFR 171.11, 171.15	FMCSR 49 CFR Part 383.23	FMCSR 49 CFR Part 390- 397	40 CFR 240-272	DOE Orders	TPSC Title 65 TN Dept.Safety Title 55, Chapter 7- 10, 50
INTRASTATE/INTERCITY CARRIER OPERATIONS (CONTINUED)						
15. Any Placarded Quantity of Hazmat	*	*	PSC		Note 1	DIR 65-15-113(a)(3)
16. CMV > 26k lb, Hazardous Waste	*	*	PSC	DIR 263.10	Note 1	DIR 65-15-113(a)(3)
17. 10k < CMV < 26k lb, Haz Waste	*		PSC	DIR 263.10	Note 1	DIR 65-15-113(a)(3)
18. CMV < 10k lb, Haz Waste	*		PSC	DIR 263.10	Note 1	DIR 65-15-113(a)(3)
INTRACITY CARRIER OPERATIONS						
19. CMV > 26k lb, No Hazmat		*			Note 2	
20. CMV > 26k lb, Hazmat	*	*			Note 1	
21. 10k > CMV > 26k lb, No Hazmat		*			Note 2	
22. 10k > CMV > 26k lb, Hazmat	*	*			Note 1	
23. MV < 10k lb, Hazmat	*				Note 1	
24. Any Placarded Quantity of Hazmat	*	*			Note 1	
25. CMV > 26k lb, Hazardous Waste	*	*		DIR 263.10	Note 1	
26. 10k < CMV < 26k lb, Hazardous Waste	*			DIR 263.10	Note 1	
27. CMV < 10k lb, Hazardous Waste	*			DIR 263.10	Note 1	

* - Applicable agency/regulation.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

CARRIER OPERATIONS JURISDICTION TABLE

CARRIER OPERATIONS DESCRIPTION	REGULATORY AGENCY/APPLICABLE REGULATIONS					
	RSPA	FHWA		EPA	DOE	TCA
	HMR 49 CFR 171.11, 171.15	FMCSR 49 CFR Part 383.23	FMCSR 49 CFR Part 390- 397	40 CFR 240-272	DOE Orders	TPSC Title 65
RESERVATION ROADS WITHOUT ACCESS RESTRICTION CARRIER OPERATIONS						
28. CMV > 10k lb, No Hazmat		*			Note 2	DIR
29. CMV > 10k lb, Hazmat	*	*			Note 1	DIR
30. MV < 10k lb, Hazmat	*				Note 1	DIR
31. Any Placarded Quantity of Hazmat	*	*			Note 1	DIR
32. CMV > 26k lb, Hazardous Waste	*	*		DIR 263.10	Note 1	DIR
33. 10k < CMV < 26k lb, Hazardous Waste	*	*		DIR 263.10	Note 1	DIR
34. CMV < 10k lb, Hazardous Waste	*			DIR 263.10	Note 1	DIR

* - Applicable agency/regulation.

Note 1 - DOE Orders: 1540.1, 1540.2, 5480.1B, 5480.3, 5480.4, 5000.3B

Note 2 - DOE Orders: 1540.1, 5000.3B, 5480.1B

PART 3. RFG TRANSIT TABLES

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prioritization Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Alabama	NR	R <u>Contact: Dept. of Envir. Mgt., 1751 Cong. W. L. Dickinson Dr., Montgomery, AL 36130 (205-271-7726)</u>	NR	NR	NR	State of Alabama Highway Dept., 1409 Coliseum Blvd., Montgomery, AL 36130 (205-834-1092) FAX: (205-832-9064)	Col. George McMinn, Director, Alabama Dept. of Public Safety, P.O. Box 1511, Montgomery, AL 36192-0501 (205-252-4378)	YES
Alaska	NR	R <u>Contact: Alaska Dept. of Envir. Conservation, 410 Willoughby Ave., Suite 105, Juneau, AK 99801-1795 (907-465-5751)</u>	NR	NR	NR	Dept. of Commerce & Economic Dev., 12850 Industry Way, Bldg. O, Ste. 6, Anchorage, AK 99515-3512 (907-345-4636) FAX: (907-345-2641)	Mead Treadwell, Deputy Commissioner, Alaska Dept. of Environmental Conservation, 410 Willoughby Ave., Suite 105, Juneau, AK 99801-1795 (907-465-2800)	NO
Arizona	NR	R <u>Contact: Arizona Dept. of Environ. Quality, 2005 N. Central, Phoenix, AZ 85004 (602-257-2300)</u>	NR	NR	NR	Dept. of Transp. Motor Vehicle Div., P.O. Box 2100, 1801 W. Jefferson RM 12617, Phoenix, AZ 85007 (602-255-7346) TELEX: (602-253-8831)	Aubrey Godwin, Director, Arizona Radiation Regulatory Agency, 4814 S. 40th St., Phoenix, AZ 85040 (602-255-4845) After Hrs: (602-223-2212)	YES
Arkansas	NR	R <u>Contact: 1) Arkansas Hwy. Police, P.O. Box 2779, Little Rock, AR 72203 (501-569-2425) 2) Haz. Waste Div., Dept. of Pollution Ctrl. & Ecology, 8001 Nat'l Dr., P.O. Box 8913, Little Rock, AR 72219 (501-570-2872)</u>	NR <u>However, notification is required for rad. mat & high-level rad. waste. Contact: (501-661-2136)</u>	NR	R <u>Haz. Waste Div., Dept. of Pollution Control & Ecology, 8001 National Dr., P.O. Box 8913, Little Rock, AR 72219-8913 (501-570-2872)</u>	State Hwy. & Transp. Dept., P.O. Box 2261, Little Rock, AR 72203 (501-569-2381) FAX: (501-568-1565)	Greta J. Dicus, Director, Div. of Radiation Control and Emergency Mgt. Programs, Arkansas Dept. of Health, 4815 W. Markham St., Little Rock, AR 72205 (501-661-2301) After Hrs: (501-661-2136 or -2000)	YES
California	R <u>Contact: California Hwy. Patrol, Haz. Mat. Sect., P.O. Box 942898, Sacramento, CA 94298-0081 (916-327-3310)</u>	R <u>Contact: Toxic Substances Ctrl., Dept. of Health Svcs., P.O. Box 806, Sacramento, CA 95812-0806 (916-324-2430)</u>	NR	NR	NR	Dept. of Transp., Div. of Transp. Oper., 1120 N. St., P.O. Box 942874, Sacramento, CA 95814 (916-654-4828)	George M. Edgerton, Chief, Enforcement Svcs. Div., California Hwy. Patrol, 444 N. Third St., Suite 310, Sacramento, CA 95814 (916-445-3253)	YES
Colorado	R <u>Contact: Public Utilities Commission, Office Level 2, 1500 Logan St., Denver, CO 80203 (303-894-2000 ext. 364)</u>	R <u>Contact: Public Utilities Commission, P.O. Box 1956, Denver, CO 80201 (303-894-2000)</u>	R <u>Contact: Radiation Ctrl., Colorado Dept. of Health, 4210 E. 11th Ave., Denver, CO 80220 (303-692-3300)</u>	R <u>Contact: Colorado State Patrol, 700 Kipling St., Denver, CO 80215 (303-239-4595)</u>	NR	Dept. of Transp., 4201 E. Arkansas Ave., Rm. 277, Denver, CO 80222 (303-757-9539) Information (303-757-9241) Denver (303-356-7687) Greeley FAX: (303-757-9719)	Lt. Colonel Lonnie J. Westphal, Officer in Charge, Region 1, Colorado State Patrol, 700 Kipling St., Denver, CO 80215 (303-239-4406) After Hrs: (303-239-4501)	YES

R = Required NR = Not Required

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prenotification Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Connecticut	NR	R <u>Contact: Bureau of Waste Mgt., Dept. of Environ. Protection, State Office Bldg., 79 Elm St., Hartford, CT 06106 (203-566-5712)</u>	R (Does not apply to rad. mat. shipped by or for the U.S. Government for national defense purposes) <u>Contact: Dept. of Transp., 375 Willard Ave., Newington, CT 06131-0998 (203-594-2880)</u>	R <u>Contact: Dept. of Transp., 375 Willard Ave., Newington, CT 06131-0998 (203-594-2880)</u>	R <u>Contact: Bureau of Waste Mgt., Dept. of Environ. Protection, 79 Elm St., Hartford, CT 06106 (203-566-1829)</u>	Dept. of Transp., Bureau of Public Transp., P.O. Box 310998, 375 Willard Ave., Newington, CT 06131-0998 (203-566-4010)	Honorable Timothy R.E. Keeney, Commissioner, Dept. of Environmental Protection, State Office Bldg., 165 Capitol Ave., Hartford, CT 06106 (203-566-2110)	NO
Delaware	R (For explosives only) <u>Contact: State Fire Marshall's Ofc., Carvel State Ofc. Bldg., 820 N. French St., Wilmington, DE 19801 (302-577-3013)</u>	R <u>Contact: Dept. of Nat'l Resources & Environ. Ctrl. Div. of Air & Waste Mgt., 89 Kings Hwy., P.O. Box 1401, Dover, DE 19903 (302-739-3689)</u>	NR	NR	R <u>Contact: Haz. Waste Mgt. Branch, Dept. of Nat'l Resources & Environ. Control, P.O. Box 1401, Dover, DE 19903 (302-739-3689)</u>	Permit Sup., State Hwy. Dept., P.O. Box 778, Dover, DE 19903 (302-735-4374) FAX: (302-739-4633)	Karen L. Johnson, Secretary, Dept. of Public Safety, P.O. Box 818, Dover, DE 19903 (302-739-4321)	NO
District of Columbia	R (For explosives only) <u>Contact: Metropolitan Police Dept., 501 New York Ave., N.W., Washington, DC 20001 (202-727-4450)</u>	NR	NR	NR	NR	Dept. of Public Works, 614 H St. NW, Room 200, Washington, DC 20001 (202-727-7650) FAX: (202-438-0679)	Norma J. Stewart, Program Manager, Pharmaceutical and Medical Devices Control Div., Dept. of Consumer and Regulatory Affairs, 614 H St., NW., Washington, DC 20001 (202-727-7219) After Hrs.: (202-727-6161)	NO
Florida	NR	NR	R (For radioactive waste) <u>Contact: Rad. Mat. Lic. Sect., Dept. of Health & Rehabilitative Svcs., 1317 Winewood Blvd., Tallahassee, FL 32399-0700 (904-487-2487)</u>	NR	NR	Dept. of Transp., Permit Div., 605 Suwannee St., Ms. 62, Tallahassee, FL 32399 (904-488-4961) FAX: (904-487-3858)	Harlan Keaton, Manager, Environmental Radiation Program, Office of Radiation Control, Dept. of Health & Rehabilitative Svcs., P.O. Box 680069, Orlando, FL 32868-0069 (407-297-2095)	YES
Georgia	R (PCBs & LNG) <u>Contact: Public Svcs. Comm., 1007 Virginia Ave., Suite 310, Hapeville, GA 30354 (404-559-6611)</u>	R <u>Contact: Public Svcs. Commission, 1007 Virginia Ave., Hapeville, GA 30354 (404-559-6600)</u>	R <u>Contact: Public Svcs. Commission, 1007 Virginia Ave., Suite 310, Hapeville, GA 30354 (404-559-6611)</u>	R <u>Contact: Public Svcs. Comm., 1007 Virginia Ave., Hapeville, GA 30354 (404-559-6611)</u>	NR	Dept. of Transp., Permits & Enforcement, 276 Memorial Dr., SW, Atlanta, GA 30303 (404-656-5428) FAX: (404-656-9717)	Al Hatcher, Director, Transp. Div., Public Svcs. Commission, 1007 Virginia Ave., Suite 310, Hapeville, GA 30354 (404-559-6600)	YES
Hawaii	NR	NR	NR	NR	NR	District Engineer, Oahu District, 727 Kaloa St., Honolulu, HI 96819 (808-831-6712) FAX: (808-831-6725)	Bruce S. Anderson, Ph.D., Deputy Director for Environmental Health, State Dept. of Health, P.O. Box 96813, Honolulu, HI 96813 (808-548-4139)	NO

R = Required NR = Not Required

RFG for TENNESSEE, 3-2

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prenotification Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Idaho	R Contact: Commercial Vehicle Unit, P.O. Box 34, Boise, ID 83731 (208-334-8636)	R Contact: Idaho State Police, Motor Carrier Safety Ofc., P.O. Box 55, Boise, ID 83707 (208-334-2130)	NR	NR	NR	Transp. Dept., P.O. Box 7129, Boise, ID 83707-1127 (208-334-8420) FAX: (208-334-8419)	Cpt. David C. Rich, Dept. of Law Enforcement, Idaho State Police, 3311 W. State St., P.O. Box 55, Boise, ID 83707-0055 (208-334-3850)	YES
Illinois	NR	R Contact: Special Waste Unit, Div. of Land Pollution Control, Illinois Environ. Protection Agency, 2200 Churchill Rd., P.O. Box 19276, Springfield, IL 62794-9276 (217-782-6762)	NR	R Contact: Illinois Dept. of Nuclear Safety, Ofc. of Envir. Safety, 1301 Knott St., Springfield, IL 62703 (217-786-6365)	R Contact: Special Waste Unit, Illinois Environ. Protection Agency, 2200 Churchill Rd., P.O. Box 19276, Springfield, IL 62794-9276 (217-782-6762)	Permit Section, Dept. of Transp., 117 Admin. Bldg., 2300 S. Dirksen Pkwy., Springfield, IL 62764 (217-782-6271) FAX: (217-782-3572)	Thomas W. Ortiger, Director, Illinois Dept. of Nuclear Safety, 1035 Outer Park Dr., 5th Fl., Springfield, IL 62704 (217-765-9688) - 24 HOURS 24 HR EMER: (217-785-0600)	YES
Indiana	NR	NR	NR	NR	R Contact: Indiana Dept. of Environ. Mgt., Office of Solid & Haz. Waste Mgt., 105 S. Meridian St., Indianapolis, IN 46204-6015 (317-232-3210)	Indiana Dept. of Transp., Room N855, State Office Bldg., 100 N. Senate Ave., Indianapolis, IN 46204-2217 (317-232-5425) FAX: (317-232-5204)	Lloyd R. Jennings, Superintendent, Indiana State Police, 301 State Office Bldg., 100 N. Senate Ave., Indianapolis, IN 46284 (317-232-8241) After Hrs.: (317-232-8248)	NO
Iowa	NR	NR	NR	NR	NR	Dept. of Transp., Office of Motor Carrier Svcs., 100 Euclid Ave., P.O. Box 10382, Des Moines, IA 50306-0382 (513-237-3264) FAX: (513-237-3257)	Ellen M. Gordon, Administrator, Emergency Mgt. Div., Hoover State Office Bldg., Des Moines, IA 50319 (515-281-3231)	YES
Kansas	NR	R Contact: Haz. Waste Section, Bureau of Air & Waste Mgt., Dept. of Health & Environment, Forbes Field, Bldg. 740, Topeka, KS 66620-0001 (913-296-1600)	NR	NR	NR	Dept. of Transp., Permit Section, Docking State Office Bldg., Topeka, KS 66612 (913-296-7400) FAX: (913-296-3619)	Frank H. Mousa, M.S.A., Technological Hazards Administrator, The Adjutant General's Dept., Div. of Emergency Preparedness, P.O. Box C-300, Topeka, KS 66601 (913-266-1409) After Hrs.: (913-296-3176)	YES
Kentucky	R (For intrastate commerce) Contact: Transp. Cabinet, Div. of Motor Carriers, P.O. Box 2007, Frankfort, KY 40602 (502-564-4540)	NR However, registration is required with the Natural Resources & Envir. Prot. Cabinet, Div. of Waste Mgt., Fort Boone Plaza, 14 Reilly Rd., Frankfort, KY 40601 (502-564-6716)	R Contact: Transp. Cabinet, Div. of Motor Carriers, P.O. Box 2007, Frankfort, KY 40602 (502-564-4540)	NR	NR (Items D, F, H, I, & K must be completed on EPA manifest)	Transp. Cabinet, Div. of Motor Carriers, P.O. Box 2007, Frankfort, KY 40602 (502-564-7150) FAX: (502-564-4138)	Donald R. Hughes, Sr., Director, Div. of Community Safety, Dept. for Health Svcs., 275 E. Main St., Frankfort, KY 40621 (502-564-3700)	YES

R = Required NR = Not Required

REG for TENNESSEE, 3-3

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prioritization Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Louisiana	NR	NR	NR	NR	R Contact: Haz. Waste Mgt. Div., Dept. of Envir. Quality, P.O. Box 44307, Baton Rouge, LA 70804 (504-765-0355)	Dept. of Transp. and Dev., P.O. Box 94042, Baton Rouge, LA 70804-9402 (504-343-2345) LA ONLY: (800-654-1433)	Cpt. Louis Cook, Louisiana State Police, 265 S. Foster Dr., P.O. Box 66614, Baton Rouge, LA 70806 (504-925-6113)	YES
Maine	NR	R Contact: Bureau of Oil & Haz. Mat. Waste Ctr., Dept. of Envir. Prot., Station 17, Augusta, ME 04333 (207-289-2651)	NR	NR	R Contact: Bureau of Oil & Haz. Mat. Waste Ctr., Dept. of Envir. Prot., Station 17, Augusta, ME 04333 (207-289-2651)	Motor Vehicle Div., Commercial Vehicle Ctr., Augusta, ME 04333 (207-626-8632) FAX: (207-622-5332)	Chief of the State Police, Maine Dept. of Public Safety, 36 Hospital St., Augusta, ME 04333 (207-287-2155)	NO
Maryland	NR	R Contact: Maryland Dept. of the Envir. Haz. & Solid Waste Mgt. Admin., Haz Waste Program, 2500 Broening Hwy., Baltimore, MD 21224 (301-631-3343)	NR	NR	R Contact: Maryland Dept. of the Envir. Haz. & Solid Waste Mgt. Admin., 2500 Broening Hwy., Baltimore, MD 21224 (301-631-3343)	State Hwy. Admin., 707 N. Calvert St., Baltimore, MD 21202 (301-333-1598)	Colonel James E. Harvey, Chief, Services Bureau, Maryland State Police, 1201 Reisterstown Rd., Pikesville, MD 21208 (410-653-4212)	YES
Massachusetts	NR	NR (For Transit)	NR	NR	R Contact: Div. of Haz. Waste, Dept. of Envir. Prot., One Winter St., Boston, MA 02108 (617-292-5851)	Dept. of Public Works, 10 Park Plaza, 7th Fl., Rm. 7416, Boston, MA 02116-3969 (617-973-7795) TransUnited: (800-223-5344) FAX: (617-973-8836)	Robert M. Halley, Director, Radiation Control Program, Massachusetts Dept. of Health, State Laboratory Institute, 365 South St., Jamaica Plain, MA 02130 (617-727-6214)	NO
Michigan	R (For explosives only) Contact: Motor Carrier Div., Dept. of State Police, 300 N. Clippert, Lansing, MI 48913 (517-336-6182)	R Contact: Michigan Dept. of Nat'l Resources, Waste Mgt. Div., P.O. Box 30263, Lansing, MI 48909 (517-373-2730)	NR	R Contact: 1) MI State Police, Fire Marshall Div., Haz. Mat. Sect., 7150 Harris Dr., P.O. Box 30157, Lansing, MI 48909 (517-322-1861) 2) Dept. of Public Health, Div. of Radiological Health, 3423 N. Logan/MLK Blvd., P.O. Box 30195, Lansing, MI 48909 (517-335-8200)	R Contact: Michigan Dept. of Nat'l Resources, Waste Mgt. Div., P.O. Box 30241, Lansing, MI 48909 (517-373-2730)	Dept. of Transp., Engg. Svcs. Div., P.O. Box 30050, Lansing, MI 48909 (517-373-2120)	Cpt. Allen L. Byam, Commanding Officer, Special Operations Div., Michigan Dept. of State Police, 714 S. Harrison Rd., East Lansing, MI 48823 (517-336-6187) After hrs.: (517-336-6100)	NO

R = Required NR = Not Required

REG for TENNESSEE, 3-4

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prenotification Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Minnesota	NR	R Contact: Minnesota Dept. of Transp., Rm. 151, Livestock Exch. Bldg., 100 Stockyard Rd., So. St. Paul, MN 55075 (612-296-7109)	NR	R Contact: Div. of Emergency Mgt., BS-State Capitol, 175 Constitution Ave., St. Paul, MN 55155 (612-296-0481)	R Contact: Minnesota Pollution Control, Div. of Haz. Waste, 520 Lafayette Rd., St. Paul, MN 55155 (612-296-6300)	Minnesota Truck Center, 152 Livestock Exchange Bldg., 100 Stockyard Rd., So. St. Paul, MN 55075 (612-296-6441) FAX: (612-297-1908)	John R. Kerr, Asst. Director, Planning Branch, Minnesota Div. of Emergency Mgt., BS-State Capitol, 175 Constitution Ave., St. Paul, MN 55155 (612-296-0481) After Hrs.: (612-649-5451)	NO
Mississippi	NR	NR	R Contact: Emergency Mgt. Agency, P.O. Box 4501, Fondren Station, Jackson, MS 39296-4501 (601-352-9100)	R Contact: Emer. Mgt. Agency, P.O. Box 4501, Fondren Station, Jackson, MS 39296-4501 (601-352-9100)	NR	State Hwy. Dept., Maintenance Div., P.O. Box 1850, Jackson, MS 39205 (601-359-1148) FAX: (601-359-1992)	James E. Maher, Director, Emergency Mgt. Agency, P.O. Box 4501, Fondren Station, Jackson, MS 39296-4501 (601-352-9100) - 24 Hours	YES
Missouri	NR	R Contact: Waste Mgt. Program, Dept. of Nat'l Resources, P.O. Box 176, Jefferson City, MO 65102 (314-751-3176)	NR	NR	R Contact: Waste Mgt. Program, Dept. of Nat'l Resources, P.O. Box 176, Jefferson City, MO 65102 (314-751-3176)	Missouri Hwy. & Transp. Dept., P.O. Box 270, Jefferson City, MO 65102 LOCAL: (314-751-2871) (1-800-877-8499) FAX: (314-751-6555)	Jerry B. Uhlmann, Director, State Emergency Mgt. Agency, 1717 Industrial Dr., P.O. Box 116, Jefferson City, MO 65102 (314-526-9779) After Hrs.: (314-751-2748)	NO
Montana	NR	NR	NR	NR	NR	Dept. of Hwy., Gross Vehicle Weight Div., P.O. Box 4639, Helena, MT 59604 (406-444-6130)	1) Mr. Adrian Howe, Chief, Occup. Health Bureau, Dept. of Health & Envir. Sciences, Room A113, Cogswell Bldg., Helena, MT 59620 (406-444-3671) After Hrs.: (406-442-1426) 2) Bill Good, Acting Admin., Disaster & Emergency Svcs., P.O. Box 4789, Helena, MT 59604-4789 (406-444-6911)	NO
Nebraska	NR	NR	NR	NR	NR	State Dept. of Roads, Permit Office, Rm. 151, P.O. Box 94759, Lincoln, NE 68509 (402-479-4775) TELEX: (402-479-3906) FAX: (402-479-3906)	Colonel Ron Tusing, Superintendent, Nebraska State Patrol, P.O. Box 94907, Lincoln, NE 68509 (402-471-0105) After Hrs.: (402-471-4545)	YES
Nevada	R Contact: Haz. Mat. Permit Sect., 555 Wright Way, Carson City, NV 89711 (702-687-4622)	NR	R Contact: Haz. Mat. Permit Sect., 555 Wright Way, Carson City, NV 89711 (702-687-4622)	NR	NR	Dept. of Transp., 1263 S. Stewart St., Carson City, NV 89712 (702-687-5410) FAX: (702-687-4846)	Stanley R. Marshall, Supr., Radiological Health Section, Bureau of Health Protection Svcs., Nevada Div. of Health, 505 E. King St., Carson City, NV 89710 (702-687-5394)	YES

R = Required NR = Not Required

REF for TENNESSEE, 3-5

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prioritization Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
New Hampshire	R <u>Contact: Road Toll Admin., Dept. of Safety, 10 Hazen Dr., Concord, NH 03305 (603-271-2311)</u>	R <u>Contact: Div. of Waste Mgt., Dept. of Envir. Svcs., Health & Welfare Bldg., 6 Hazen Dr., Concord, NH 03301 (603-271-2900)</u>	NR	NR	R <u>Contact: Div. of Waste Mgt., Dept. of Envir. Svcs., Health & Welfare Bldg., 6 Hazen Dr., Concord, NH 03301 (603-271-2900)</u>	Dept. of Transp., Hwy. Permit Supvr., P.O. Box 483, Concord, NH 03302-0483 (603-271-2691)	Richard M. Flynn, Commissioner, New Hampshire Dept. of Safety, James H. Hayes Bldg., Hazen Dr., Concord, NH 03305 (603-271-3636) - 24 HOURS	YES
New Jersey	R (For flammable liquids in intrastate commerce) <u>Contact: New Jersey Div. of Motor Vehicle Svcs., Motor Carriers Unit, 225 E. State St., CN 133, Trenton, NJ 08666-0133 (609-633-9408)</u>	R <u>Contact: Haz. Waste Regulation Program, Dept. of Envir. Protection, 401 E. State St., Trenton, NJ 08625 (609-292-8341)</u>	NR <u>(However, a certificate is required for more than 20 curies of any rad. mat., 2 g of plutonium, or 1 kg of enriched uranium)</u> <u>Contact: Dept. of Envir. Prot. & Energy, Bureau of Rad. Mat., CN 411, Trenton, NJ 08625 (609-987-2032)</u>	NR	R <u>Contact: Haz. Waste Reg. Program, Dept. of Envir. Protection, CN 028-401, E. State St., Trenton, NJ 08625 (609-292-8341)</u>	Div. of Motor Vehicles, Special Permit Section, 25 S. Montgomery St., Trenton, NJ 08666 (609-588-3502) FAX: (609-588-7332)	Kent Tisch, Manager, Dept. of Environmental Protection & Energy, Bureau of Nuclear Engineering, CN 415, Trenton, NJ 08625 (609-987-2031)	NO
New Mexico	NR	R <u>Contact: Haz. & Rad. Waste Bureau, Environ. Dept., P.O. Box 26610, 525 Camino de los Marquez, Santa Fe, NM 87503 (505-827-4358)</u>	NR	NR	NR	Motor Transp. Dept., Enforcement Div. Permit Section, P.O. Box 1028, Santa Fe, NM 87503 (505-827-0365) TELEX: (505-827-0376) FAX: (505-983-1565)	Roland K. Lough, Chief, Emergency Mgt. Bureau, Dept. of Public Safety, P.O. Box 1628, Santa Fe, NM 87504-1628 (505-827-9222) After Hrs.: (505-294-7932)	YES
New York	NR	R (If shipment originates or terminates in NY) <u>Contact: Dept. of Envir. Conservation, Div. of Haz. Substances Regulation, 50 Wolf Rd., Albany, NY 12233-7250 (518-457-7267)</u>	R (For LLW) <u>Contact: Dept. of Envir. Conservation, Div. of Haz. Substances Regulation, 50 Wolf Rd., Albany, NY 12233-7250 (518-457-7225)</u>	NR	NR	Dept. of Transp., Carrier Safety Bureau, 1220 Washington Ave., Bldg. 5, Rm. 311, Albany, NY 12222 (518-457-1155) FAX: (518-457-0367)	Anthony J. Germano, Acting Director, State Emergency Mgt. Office, Public Security Bldg. #22, State Campus, Albany, NY 12226 (518-457-9996)	YES
North Carolina	NR	NR	NR	NR	NR <u>(Items D, F, H, & I must be completed on EPA manifest)</u>	Dept. of Transp., Div. of Highways, 1425 Rock Quarry Rd., Ste 109 & 110, Raleigh, NC 27610 (919-733-7154) FAX: (919-833-6410) FAX: (919-821-0432)	First Sergeant T.C. Stroud, Hazardous Materials Section, North Carolina Highway Patrol Training Center, 3316 Garner Road, Raleigh, NC 27610 (919-733-4045) After Hrs.: (919-733-3861)	YES
North Dakota	R <u>Contact: Motor Carrier Div., N. Dakota Hwy. Patrol, 600 E. Blvd. Ave., Capitol Grounds, Bismarck, ND 58505-0241 (701-224-2455)</u>	R <u>Contact: Div. of Waste Mgt., State Dept. of Health & Consolidated Laboratories, P.O. Box 5520, Bismarck, ND 58502-5520 (701-221-5166)</u>	NR	NR	NR	Hwy. Patrol, Motor Carrier Div., 600 E. Boulevard Ave., Bismarck, ND 58505-0241 (701-224-2621)	Dana K. Mount, Director, Div. of Environmental Engg., Dept. of Health, 1200 Missouri Ave., Box 5520, Bismarck, ND 58502-5520 (701-221-5188) After Hrs.: (701-224-2121)	YES

R = Required NR = Not Required

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prioritization Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Ohio	R <u>Contact: Public Utilities Commission, 180 E. Broad St., Columbus, OH 43266-0573 (614-466-7232)</u>	R <u>Contact: Public Utilities Commission, 180 E. Broad St., Columbus, OH 43266-0573 (614-466-0409)</u>	NR	NR	NR (Item 1 must be completed on EPA manifest)	Bureau of Communications, 1809 O'Brien St., Columbus, OH 43228-3866 (614-777-0224) FAX: (614-777-0335) FAX: (614-777-0336)	James R. Williams, Chief of Staff, Ohio Emergency Mgt. Agency, 2825 West Granville Rd., Columbus, OH 43235-0301 (614-889-7150)	NO
Oklahoma	NR	R (For p/u or delivery in OK) <u>Contact: Oklahoma Health Dept., Haz. Waste Mgt. SVC 0205, 1000 NE 10th, Oklahoma City, OK 73117-1299 (405-271-5338)</u>	NR	NR	NR	Dept. of Public Safety, Size & Weight Permit Div., P.O. Box 11415, Oklahoma City, OK 73136-0415 (405-425-2390) FAX: (405-425-2811)	Dave McBride, Commissioner of Public Safety, Oklahoma Dept. of Public Safety, 3600 N. King Ave., P.O. Box 11415, Oklahoma City, OK 73136-0415 (405-425-2424) - 24 HOURS	NO
Oregon	NR	R <u>Contact: Motor Carrier Invest., Public Utility Comm., Labor & Industries Bldg., Rm. 420, Salem, OR 97310 (503-378-6699)</u>	R <u>Contact: Transp. Safety Div., Public Utility Comm., 350 Winter St., NE, Salem, OR 97310 (503-378-5916)</u>	NR	NR (Requires additional state information on EPA manifest)	Transp. Permit Unit, 2950 State St., Rm. 216, Salem, OR 97310 (503-378-2568) FAX: (503-373-7377)	David Stewart-Smith, Administrator, Facility Regulation Div., Oregon Dept. of Energy, 625 Marion St., NE, Salem, OR 97310 (503-378-6469)	YES
Pennsylvania	R <u>Contact: Penn. Turnpike Commission, P.O. Box 8531, Harrisburg, PA 17105 (717-939-9551 ext. 298)</u>	R <u>Contact: Dept. of Envir. Resources, Bureau of Waste Mgt., P.O. Box 2063, Harrisburg, PA 17105-2063 (717-787-9870)</u>	NR	R <u>Contact: Emerg. Mgt. Agency, P.O. Box 3321, Harrisburg, PA 17105 (717-787-9870)</u>	R <u>Contact: Dept. of Envir. Resources, Bureau of Waste Mgt., P.O. Box 2063, Harrisburg, PA 17105-2063 (717-787-9870)</u>	Dept. of Transp., Central Permit Ofc., Rm. 1014, Transp. & Sfty. Bldg., Harrisburg, PA 17120 (717-787-4680) FAX: (717-787-9890)	George M. Johnson, Director, Response and Recovery, Pennsylvania Environ. Mgt. Agency, P.O. Box 3321, Harrisburg, PA 17105 (717-783-8150) After Hrs.: (717-783-8150)	NO
Rhode Island	NR	R <u>Contact: Div. of Air & Haz. Mat., Dept. of Envir. Mgt., 291 Promenade St., Providence, RI 02908 (401-277-2797)</u>	R (Does not apply to rad. mat. shipped by or for the U.S. Gov't for national defense purposes) <u>Contact: Public Utilities Comm., 100 Orange St., Providence, RI 02903 (401-277-3500)</u>	NR	R <u>Contact: Div. of Air & Haz. Mat., Dept. of Envir. Mgt., 291 Promenade St., Providence, RI 02908 (401-277-2797)</u>	Dept. of Transp., Motor Vehicle Div., State Office Bldg., Rm. 106 - Permits, Providence, RI 02903 (401-277-2986)	William A. Maloney, Associate Administrator, Motor Carriers, Div. of Public Utilities and Carriers, 100 Orange St., Providence, RI 02903 (401-277-3500)	YES
South Carolina	R <u>Contact: South Carolina Public Svc. Comm., P.O. 11649, Columbia, SC 29211 (803-737-5194)</u>	R <u>Contact: Bureau of Solid & Haz. Waste Mgt., Dept. of Health & Envir. Control, 2600 Bull St., Columbia, SC 29201 (803-734-5200)</u>	NR	NR	R <u>Contact: Bureau of Solid & Haz. Waste Mgt., Dept. of Health & Envir. Control, 2600 Bull St., Columbia, SC 29201 (803-734-5200)</u>	State Hwy. Dept., Oversize Permit Section, P.O. Box 191, Annex 3, Columbia, SC 29202 (803-737-1279)	Hayward G. Shealy, Chief, Bureau of Radiological Health, South Carolina Dept. of Health & Environmental Control, 2500 Bull St., Columbia, SC 29201 (803-734-4632) After Hrs.: (803-253-6497)	YES

R = Required NR = Not Required

REF for TENNESSEE, 3-7

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prenotification Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
South Dakota	NR	NR	NR	NR	NR	Sisseton Port of Entry, P.O. Box 242, Sisseton, SC 57262 (605-698-3925) IN STATE: (800-637-3255) FAX: (605-698-7665)	Gary N. Whitney, Division Director, Emergency Mgt., 500 E. Capitol, Pierre, SD 57501-5060 (605-773-3231)	NO
Tennessee	NR	R <u>Contact: Tenn. Dept. of Environ. & Conservation, Div. of Solid Waste Mgt., L&C Tower, 5th Fl., 401 Church St., Nashville, TN 37243-1535 (615-532-0780)</u>	NR	NR	NR	Dept. of Transp., Overweight & Over-dimensional Permit Sect, James K. Polk Bldg, Suite 900, 505 Deadrick St., Nashville, TN 37219 (615-741-3821)	John White, Asst. Deputy Director, Tenn. Emergency Mgt. Agency, State Emergency Operations Center, 3041 Sidco Dr., Nashville, TN 37204 (615-741-0001) After Hrs: (1-800-262-3300) Inside TN (1-800-258-3300) Outside TN	YES
Texas	NR	R <u>(Registration with the Texas Water Commission is required)</u> <u>Contact: (512-908-2334)</u>	NR	NR	R <u>Contact: Texas Water Commission, Industrial & Haz. Waste Div., P.O. Box 13087, Austin, TX 78701-3087 (512-908-2334)</u>	State Dept. of Hwy. & Public Transp., 125 E. 11th St., Austin, TX 78701-2483 (1-800-299-1700) FAX: (512-465-1765)	1) David K. Lacker, Chief, Bureau of Radiation Control, Texas Dept. of Health, 1100 W. 49th St., Austin, TX 78756 (512-834-6688) 2) Col. Joe E. Milner, Director, Texas Dept. of Public Safety, 5805 N. Lamar Blvd., Austin, TX 78752 (512-465-2000)	YES
Utah	NR	NR	NR	NR	NR	Utah Dept. of Transp. Port of Entry Div., 4501 S. 2700 West, Salt Lake City, UT 84119 (801-965-4506) FAX: (801-965-4936)	William J. Sinclair, Deputy Director, Bureau of Radiation Control, 168 North 1950 West, P.O. Box 144850, Salt Lake City, UT 84114-4850 (801-536-4250) After Hrs: (801-538-6333)	YES
Vermont	R <u>Contact: Commercial Vehicle Operations License Div., 120 State St., Montpelier, VT 05603-0001 (802-828-2070)</u>	R <u>Contact: Dept. of Motor Vehicles, Agency of Transp., 120 State St., Montpelier, VT 05603 (802-828-2076)</u>	NR	NR	R <u>Contact: Mgt. & Prevention Sect, Haz. Mat. Mgt. Div., 103 S. Main St. - West Bldg., Waterbury, VT 05671-0404 (802-241-3888)</u>	Dept. of Motor Vehicles, CVO, 120 State St., Montpelier, VT 05603 (802-828-2070)	Patrick J. Garahan, Secretary, Vermont Agency of Transp., 133 State St., Montpelier, VT 05602 (802-828-2657)	NO
Virginia	NR	R (if shipment originates or terminates in VA) <u>Contact: Envir. Quality, Waste Div., 101 N. 14th St., 11th Fl., Monroe Bldg., Richmond, VA 23219 (804-225-2667)</u>	NR	NR <u>(Registration is required)</u> <u>Contact: Dept. of Emergency Svcs., Commonwealth of Virginia, 310 Turner Rd., Richmond, VA 23225 (804-674-2406)</u>	NR	Commonwealth of Virginia, Dept. of Transp., 1221 E. Broad St., Richmond, VA 23219 (804-371-8033) FAX: (804-225-4929)	James D. Holloway, Director, Technological Hazards Div., Dept. of Emergency Svcs., Commonwealth of Virginia, 310 Turner Rd., Richmond, VA 23225 (804-674-2406)	NO

R = Required NR = Not Required

RFQ for TENNESSEE, 3-8

STATE TRANSIT TABLE

State	Permits				State Haz Waste Manifest ²	Oversize & Overweight Contact ⁴	Governor Designee For Prenotification Of Spent Fuel ⁵	NRC Agreement State ⁶
	Hazmat ¹	Haz Waste ²	Radioactive ¹	Spent Fuel ³				
Washington	NR	NR	NR	NR	NR (Items D, F, H, & I must be completed on EPA manifest)	Dept. of Transp., Motor Carrier Safety Svc., P.O. Box 47367, Olympia, WA 98504-7367 (206-459-6715) FAX: (206-438-7163)	Robert J. Huss, Deputy Chief, Washington State Patrol, General Administration Bldg, Mail Stop AX-12, Olympia, WA 98504-0612 (206-586-2340)	YES
West Virginia	NR	NR	NR	NR	NR	Dept. of Transp., Div. of Hwy., 1900 Washington St. E., Bldg. 5, Charleston, WV 25305 (304-348-0384) FAX: (304-348-0591)	Col. J.R. Buckalew, Superintendent, Dept. of Public Safety, 725 Jefferson Rd., South Charleston, WV 25309 (304-746-2111)	NO
Wisconsin	R <u>Contact: Motor Carrier Registration Sect., Wisconsin Dept. of Transp., 4802 Sheboygan Ave., P.O. Box 7983, Madison, WI 53707-7983 (608-267-1857)</u>	R <u>Contact: Haz. Waste Mgt. Section, Bureau of Solid & Haz. Waste Mgt., Dept. of Nat'l Resources, P.O. Box 7921, Madison, WI 53707-7921 (608-266-2111)</u>	R <u>Contact: WI Div. of Motor Vehicles, P.O. Box 7955, Madison, WI 53707-7955 (608-267-6764)</u>	NR	R <u>Contact: Haz. Waste Mgt. Section, Bureau of Solid & Waste Mgt., Dept. of Nat'l Resources, P.O. Box 7921, Madison, WI 53707-7921 (608-266-2111)</u>	Dept. of Transp., Permits Unit, P.O. Box 7980, Madison, WI 53707-7980 (608-266-7320)	Leroy E. Conner, Jr., Administrator, Wisconsin Div. of Emergency Gov't., P.O. Box 7865, Madison, WI 53707-7865 (608-266-3232)	NO
Wyoming	NR	NR	R (For radioactive waste) <u>Contact: Wyoming Hwy. Patrol, P.O. Box 1708, Cheyenne, WY 82003-1708 (307-777-4317)</u>	R <u>Contact: The port of entry that will be used. Call the WY Hwy. Patrol for more info.</u>	NR	Size Permits-Information, Wyoming Hwy. Patrol, P.O. Box 1708, Cheyenne, WY 82003-1708 (307-777-4317) FAX: (307-777-4282)	Cpt. L.S. Gerard, Motor Carrier Officer, Wyoming Hwy. Patrol, 5300 Bishop Blvd., P.O. Box 1708, Cheyenne, WY 82003-1708 (307-777-4317) After Hrs.: (307-777-4323)	NO

¹J. J. Keller & Associates, Inc., *State Hazardous Materials Manual: State Requirements for Shipping and Transportation*, Neenah, WI, 1993.

²J. J. Keller & Associates, Inc., *Hazardous Waste Regulatory Guide: State Waste Management Programs (Generator, Transporter, Treatment, Storage & Disposal Standards)*, Neenah, WI, 1993.

³*Directory of State Agencies Involved With the Transportation of Radioactive Material*, CRCPD Publication 93-8, prepared by Conference of Radiation Control Program Directors, Inc. for U.S. Department of Energy, October 1993.

⁴*Size and Weight Update 1993*, prepared by GO-West magazine and the Western Highway Institute for Kenworth Trucking Company and TIP Transport International Pool.

⁵*Federal Register*, Vol. 58, No. 124, p. 35050, Government Printing Office, Washington, DC, June 30, 1993.

⁶Richard Woodruff, Agreement Officer, NRC Region II, Atlanta, GA (404-331-5553).

TRIBAL TRANSIT TABLE

TRIBAL ENTITY	STATES INVOLVED	TRIBAL CONTACT*		
		TITLE	NAME	ADDRESS/PHONE NUMBER
Eastern - Cherokee	NC	Principal	Jonathan L. Taylor	P.O. Box Cherokee, NC 28719 (704-497-2770) FAX: (704-497-2950)
Hopi	AZ	Chairman	Vernon Masayesva	P.O. Box Kykotsmovi, AZ 86039 (602-734-2440) FAX: (602-734-2430)
Jicarilla	NM	President	Levi Pesata	P.O. Box Dulce, NM 87528 (505-759-3240) FAX: (505-759-3000)
Navajo	AZ, NM, UT	President	Petersen Zah	P.O. Box Window Rock, AZ 86515 (602-871-6350) FAX: (602-871-4020)
Ramah	NM	President	Martha Garcia	Rt. 2, Box Ramah, NM 87321 (505-775-3380) FAX: (505-775-3550)

*DOE/EM-1 has committed to provide advance notice of DOE spent fuel and high-level waste shipments to Indian tribes whose jurisdictions are crossed by or adjacent to transportation routes.

NOTE: This is an example of what ultimately will be provided. Information is being made available from the Battelle Seattle Research Center. Approximately 546 tribal contacts have been identified and will be included in future updates. Also, it is envisioned that a map showing the boundaries of all federally-recognized tribal entities within a state will be provided for each state.

PART 4. RFG PREPARED ROUTES

Definition of Preferred Routes

49 CFR 177.825 establishes the criterion for preferred routes. "A carrier or any person operating a motor vehicle containing a highway route controlled quantity of Class 7 (radioactive) materials, as defined in 49 CFR 173.403(l), shall operate the motor vehicle only over preferred routes." Preferred routes consist of Interstate System highways. If an Interstate System bypass or Interstate System beltway exists around a city, these roads shall be used in place of the Interstate System highway through the city. States routing agencies have the option of designating alternative routes, in addition to, or in lieu of, Interstate System routes.

Routes must be selected to reduce the time in transit over the preferred route segment of the trip. For pick-up and delivery not over preferred routes, the route selected must be the shortest-distance route from the pick-up location to the nearest preferred route entry location, and the shortest-distance from the nearest preferred route exit location.

The following list identifies route segments which meet the 49 CFR 177.825 definition of preferred routes for the identified state. Following the list of preferred routes is a list of the State-designated routes.

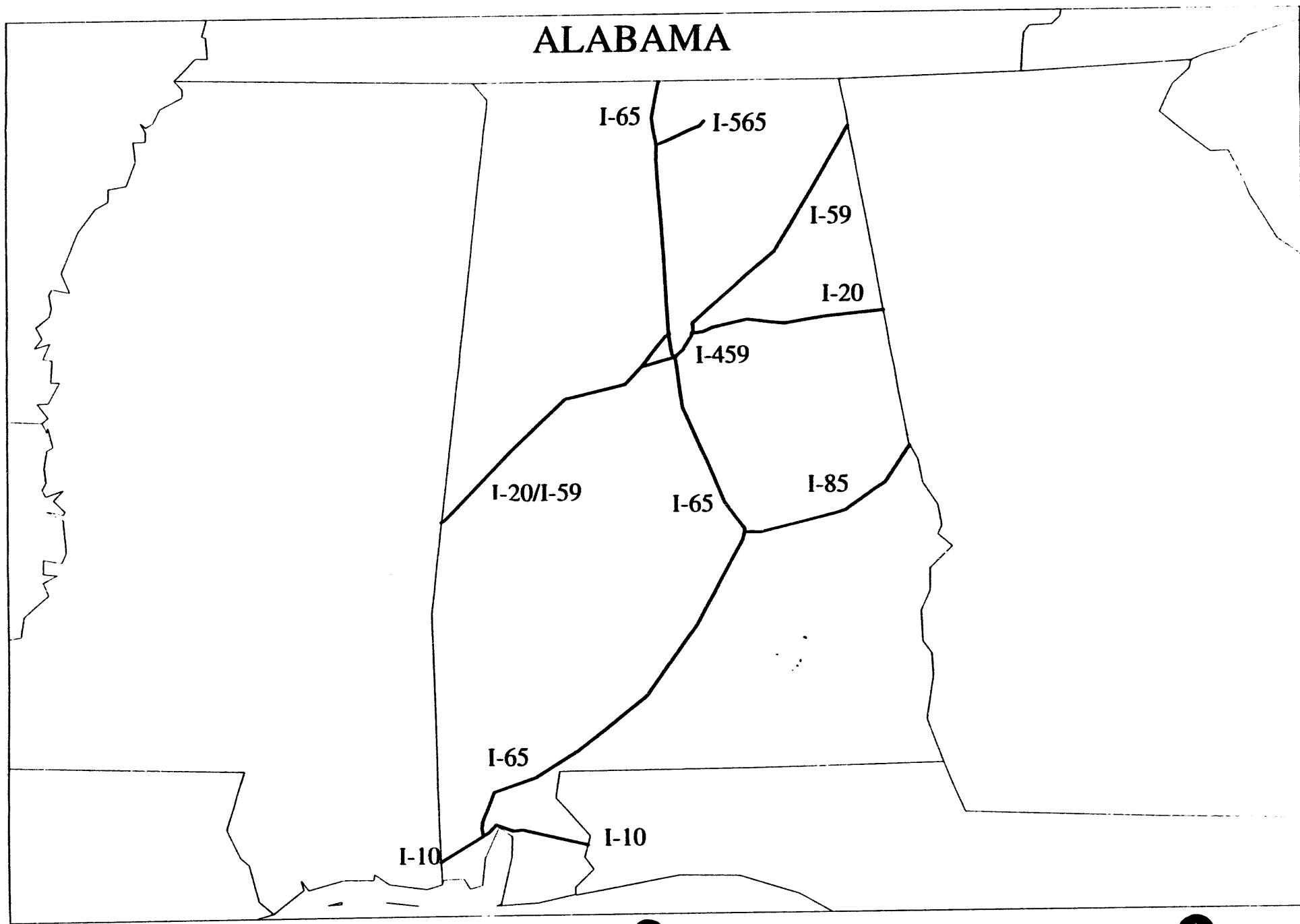
Preferred Routes in Alabama

- I-10 • From the Mississippi state line to Florida state line
- I-20 • From the junction with I-459 east of Birmingham to the Georgia state line
- I-20/I-59 • From Mississippi state line to the junction with I-65 in Birmingham
- I-459 • From the junction with I-20/I-59 southwest of Birmingham to the junction with I-59 northeast of Birmingham
- I-565 • From the junction with I-65 northeast of Decatur to Huntsville
- I-59 • From the junction with I-459 northeast of Birmingham to the Georgia state line
- I-65 • From the junction with I-10 southwest of Mobile to the Tennessee state line
- I-85 • From the junction with I-65 in Montgomery to the Georgia state line

State Designated Preferred Routes

Alabama has not designated any additional roads.

ALABAMA



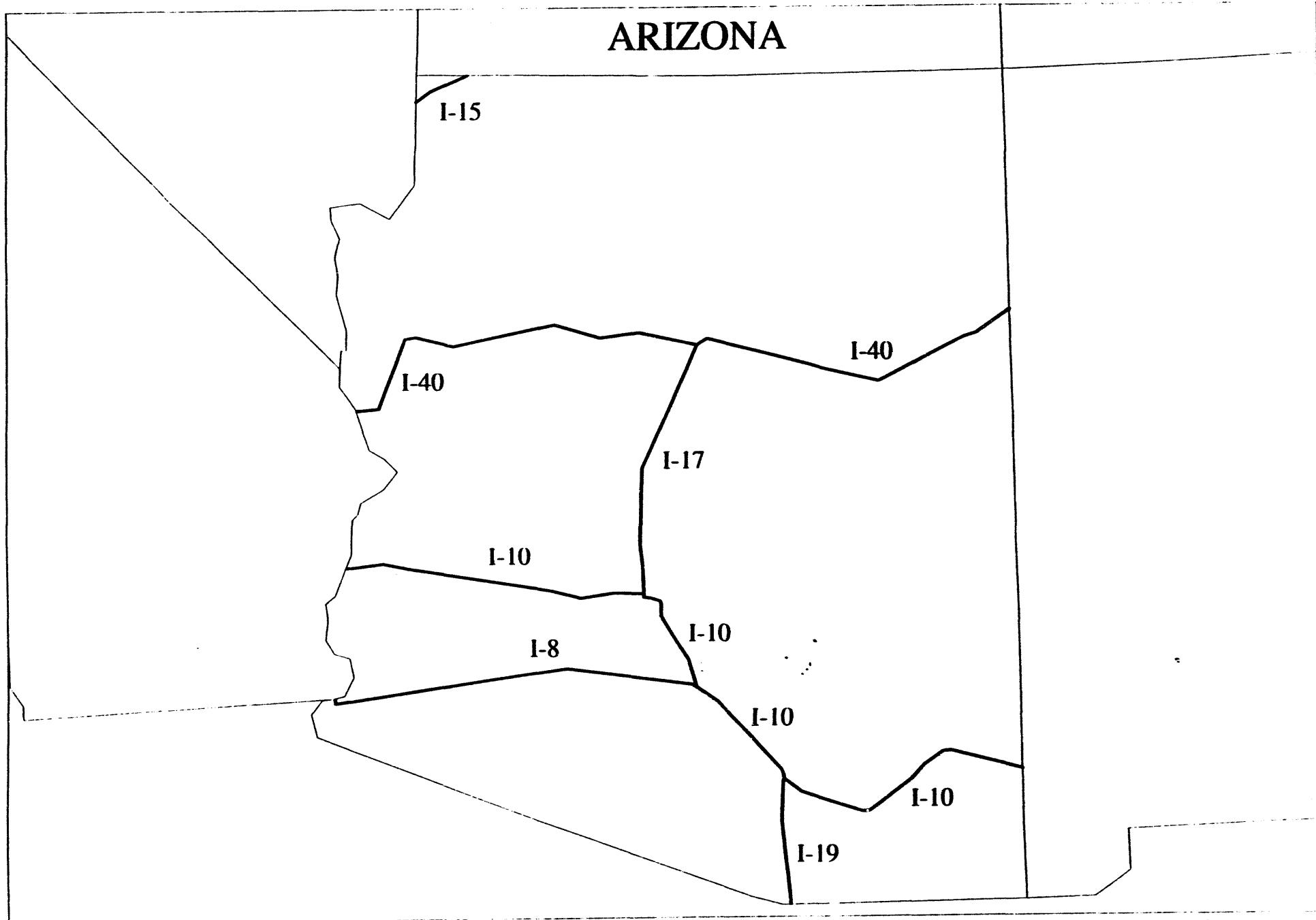
Preferred Routes in Arizona

- I-10
 - From the California state line to the junction with I-17 west of Phoenix
 - From the junction with I-17 south of Phoenix to the New Mexico state line
- I-15
 - From the Nevada state line to the Utah state line
- I-17
 - From the junction with I-10 south of Phoenix to I-40 in Flagstaff
- I-19
 - From Mexican border to I-10 in Tucson
- I-40
 - From California state line to the New Mexico state line
- I-8
 - From I-10 to the California state line

State Designated Preferred Routes

Arizona has not designated any additional roads.

ARIZONA



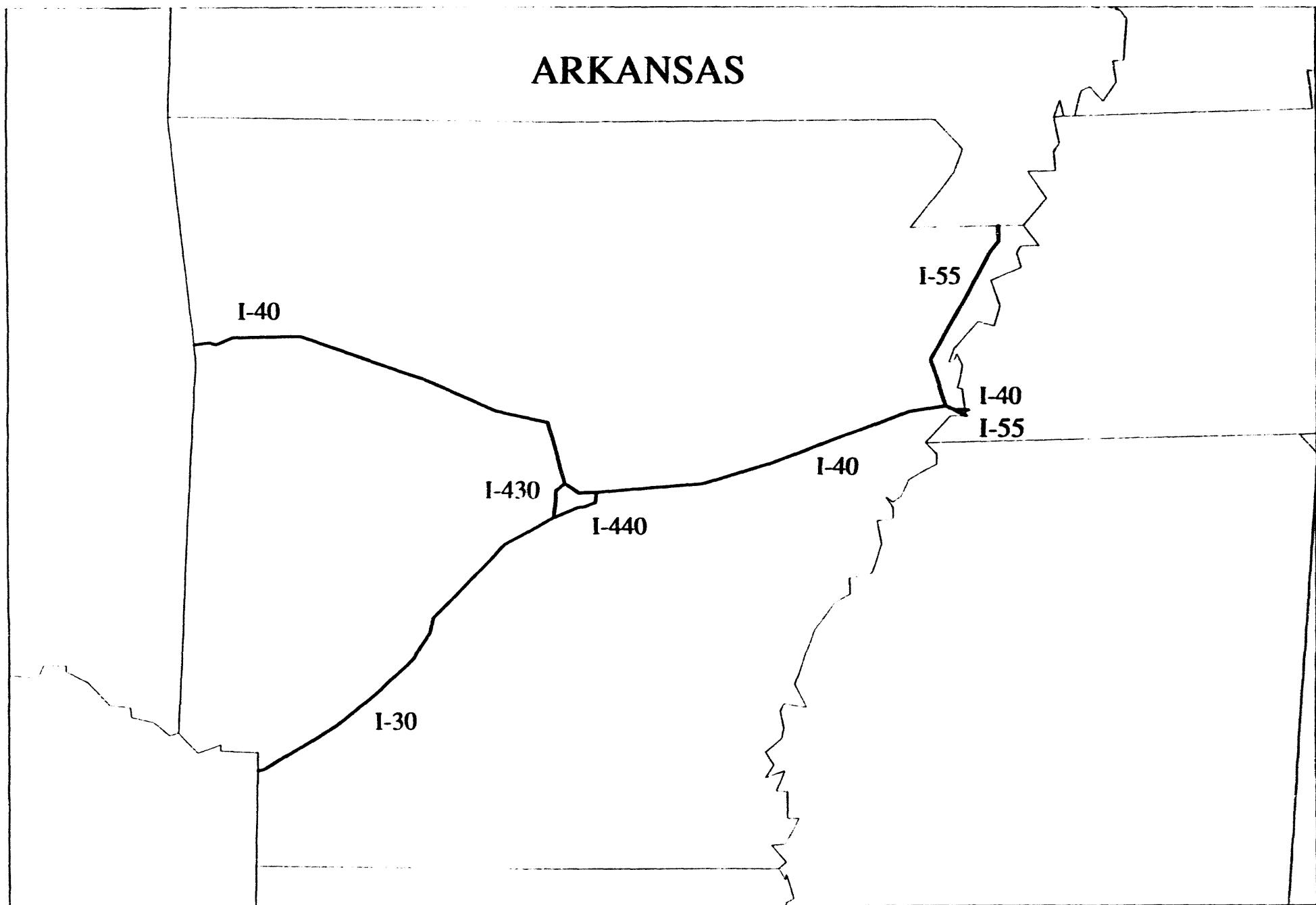
Preferred Routes in Arkansas

- I-30 • From the Texas state line to the junction with I-440 south of Little Rock
- I-430 • From the junction with I-30 southwest of Little Rock to the junction with I-40 northwest of North Little Rock
- I-40 • From Oklahoma state line to the Tennessee state line
- I-440 • From the junction with I-30 south of Little Rock to I-40 east of North Little Rock
- I-55 • From Tennessee state line to the Missouri state line

State Designated Preferred Routes

Arkansas has not designated any additional roads.

ARKANSAS



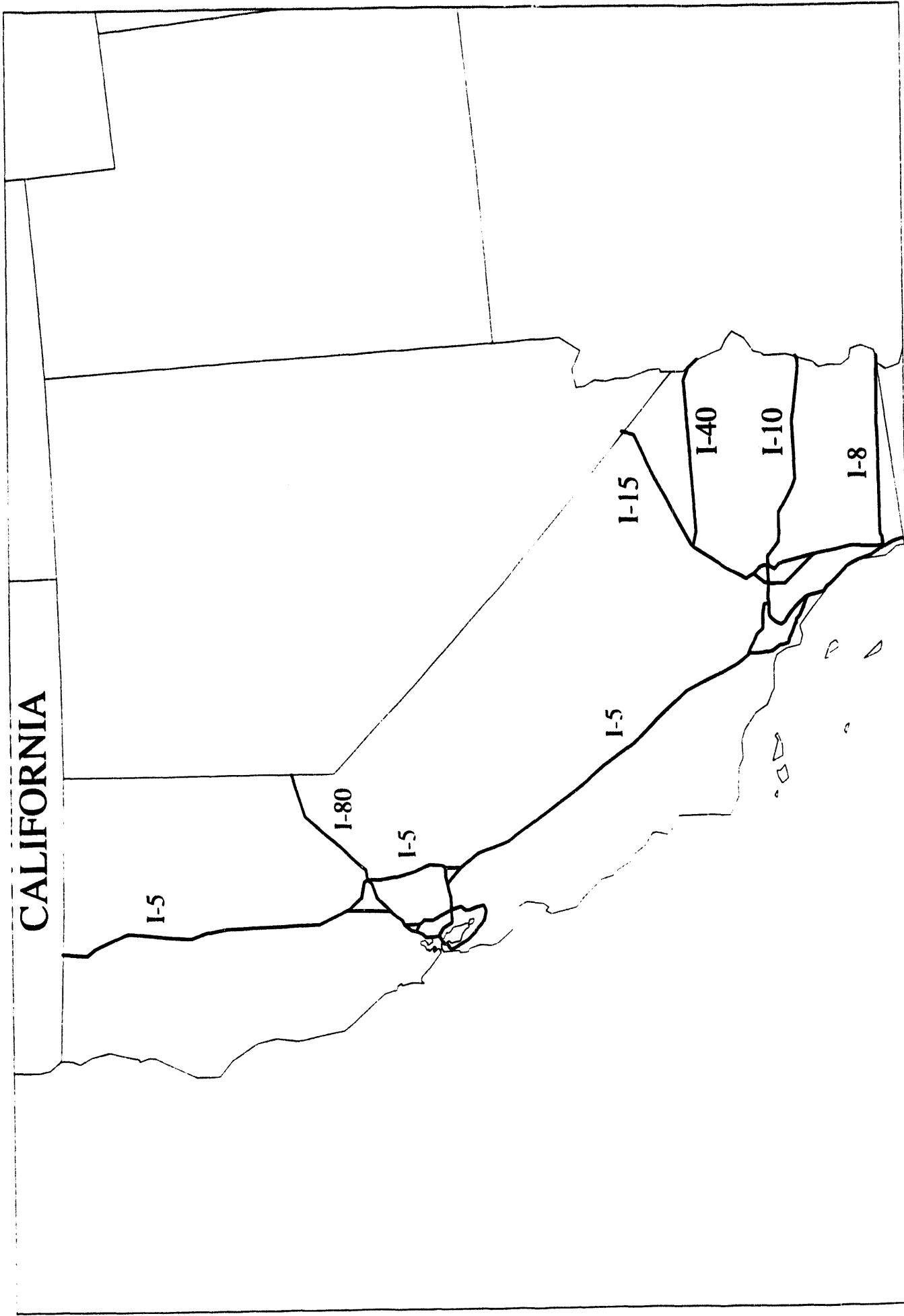
Preferred Routes in California

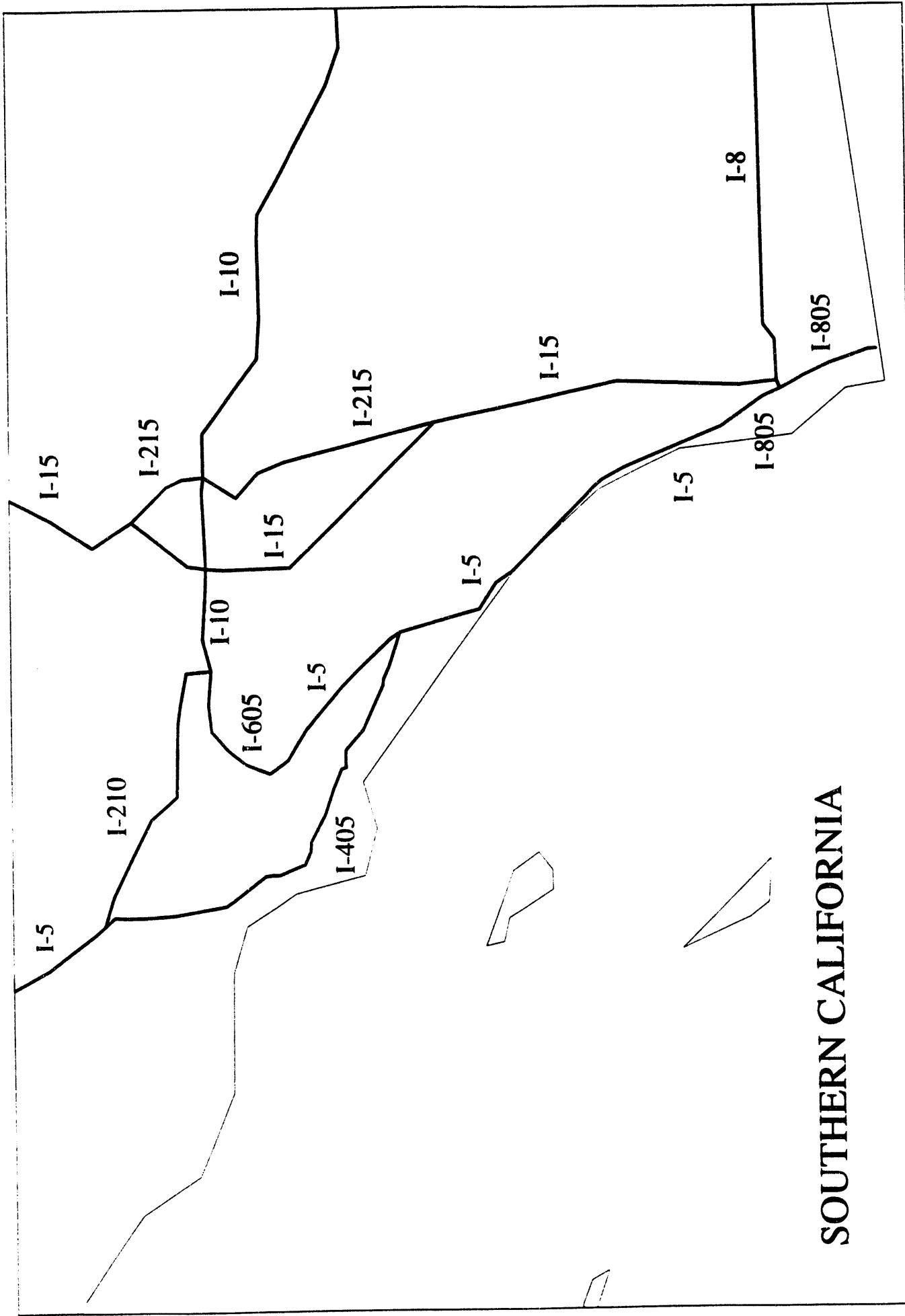
- I-10 • From the Arizona state line to junction with I-605 near Baldwin Park
- I-15 • From the Nevada state line to I-8 in San Diego
- I-205 • From I-5 east of Tracy to I-580 west of Tracy
- I-210 • From I-5 in northwestern Los Angeles to I-10 near Pomona
- I-215 • From I-15 northwest of San Bernardino to I-15 northwest of Temecula
- I-280 • From I-680 in San Jose to San Francisco
- I-40 • From the Arizona state line to I-15 near Barstow
- I-405 • From I-5 in northwestern Los Angeles to I-5 in Santa Ana
- I-5 • From the Oregon state line to the junction of I-405 in northwestern Los Angeles
• From the junction of I-605 west of Whittier to the junction of I-805 north of San Diego
- I-505 • From I-5 northwest of Woodland to I-80 northeast of Vacaville
- I-580 • From I-5 southwest of Vernalis to I-80 in Oakland
- I-680 • From I-280 in San Jose to I-80 southwest of Fairfield
- I-780 • From I-680 in Benicia to I-80 in Vallejo
- I-8 • From the Arizona state line to the junction of I-805 in San Diego
- I-80 • From the Nevada state line to San Francisco
- I-805 • From I-5 north of San Diego to San Ysidro

State Designated Preferred Routes

California has not designated any additional roads.

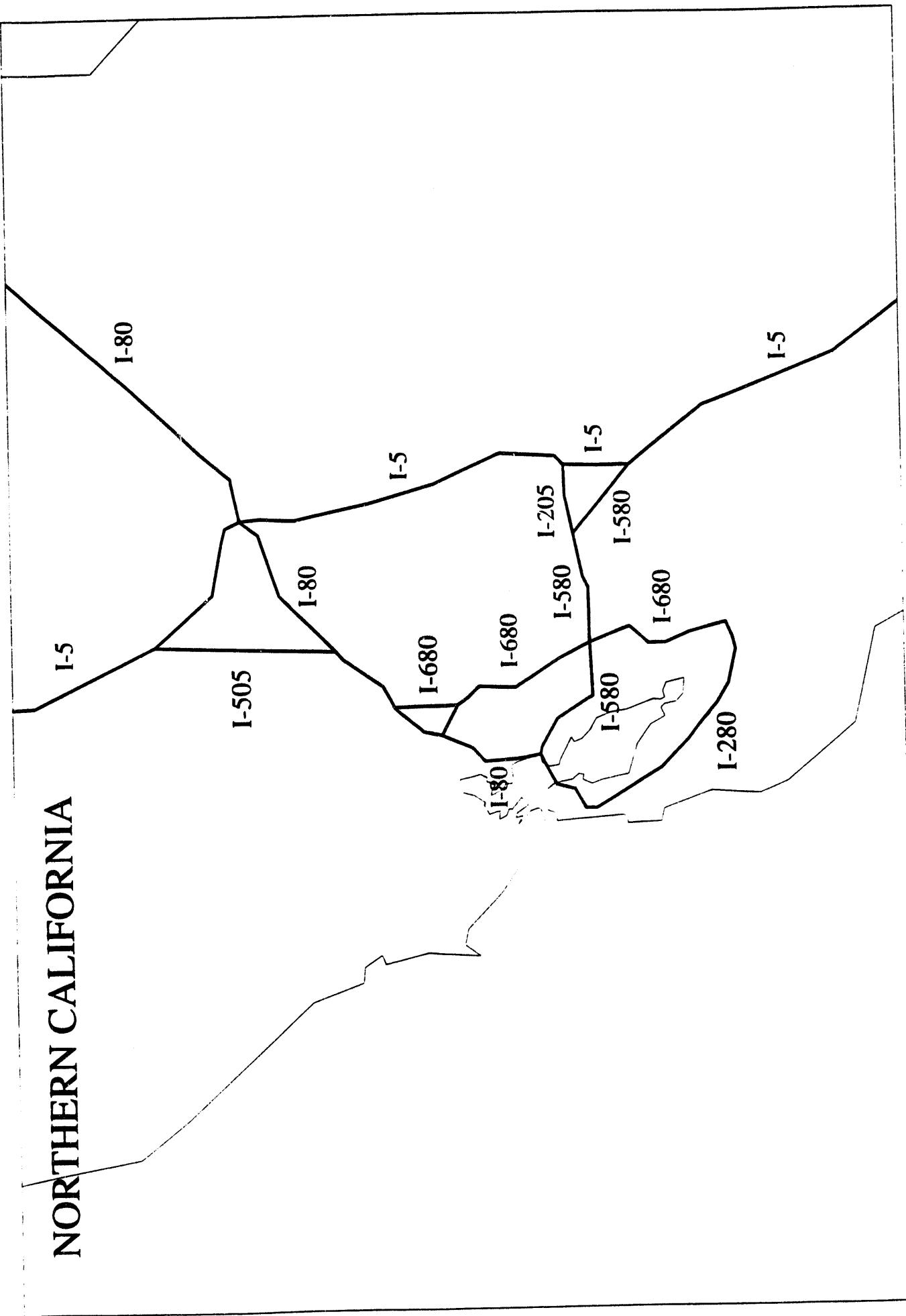
CALIFORNIA





SOUTHERN CALIFORNIA

NORTHERN CALIFORNIA



Preferred Routes in Colorado

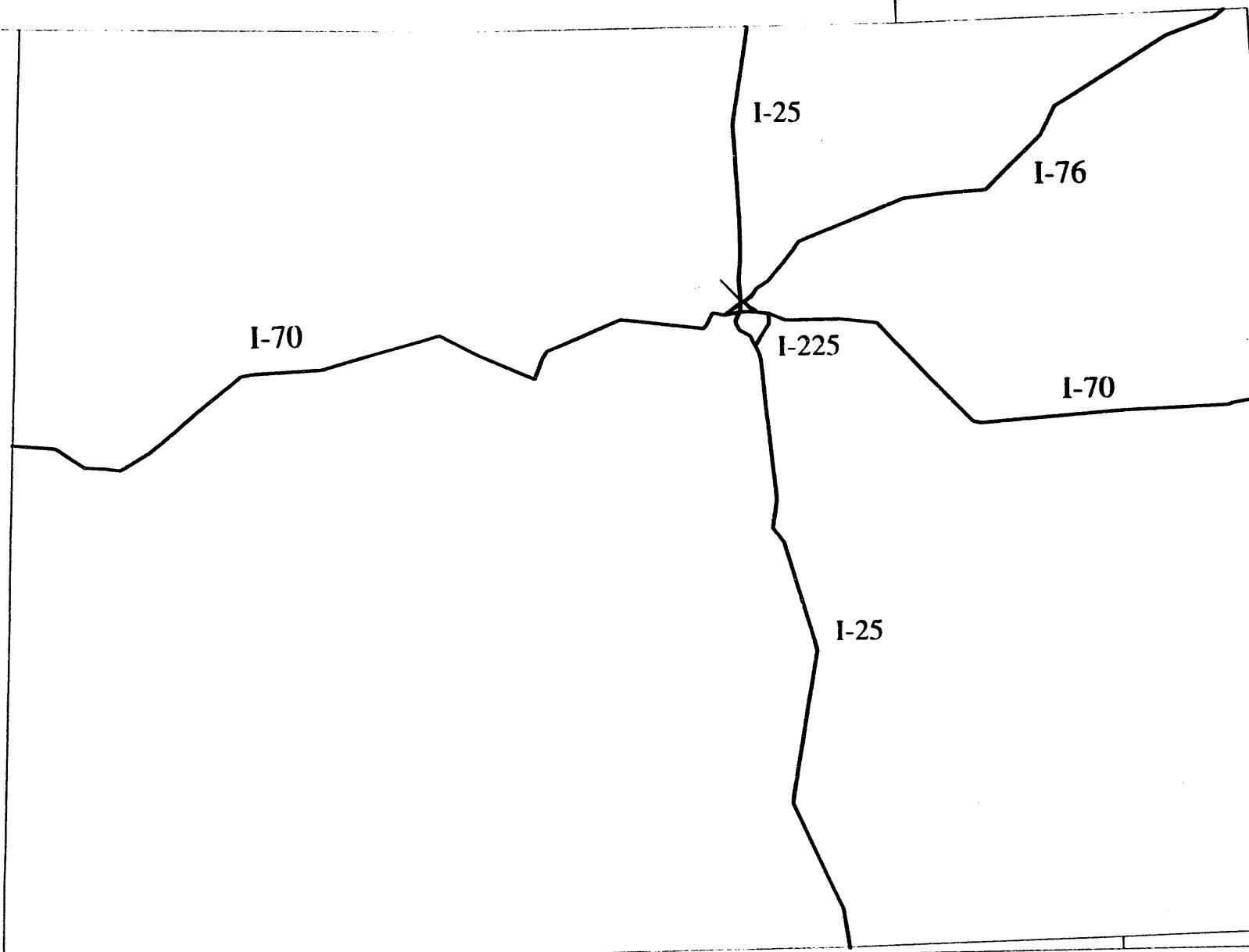
- I-25 • From the New Mexico state line to the Wyoming state line
- I-225 • From the junction of I-25 southeast of Denver to the junction of I-70 east of Denver
- I-270 • From the junction of I-76 north of Denver to the junction of I-70 east of Denver
- I-70 • From the Kansas state line to the Utah state line
- I-76 • From the Nebraska state line to I-70 northwest of Denver

State Designated Preferred Routes

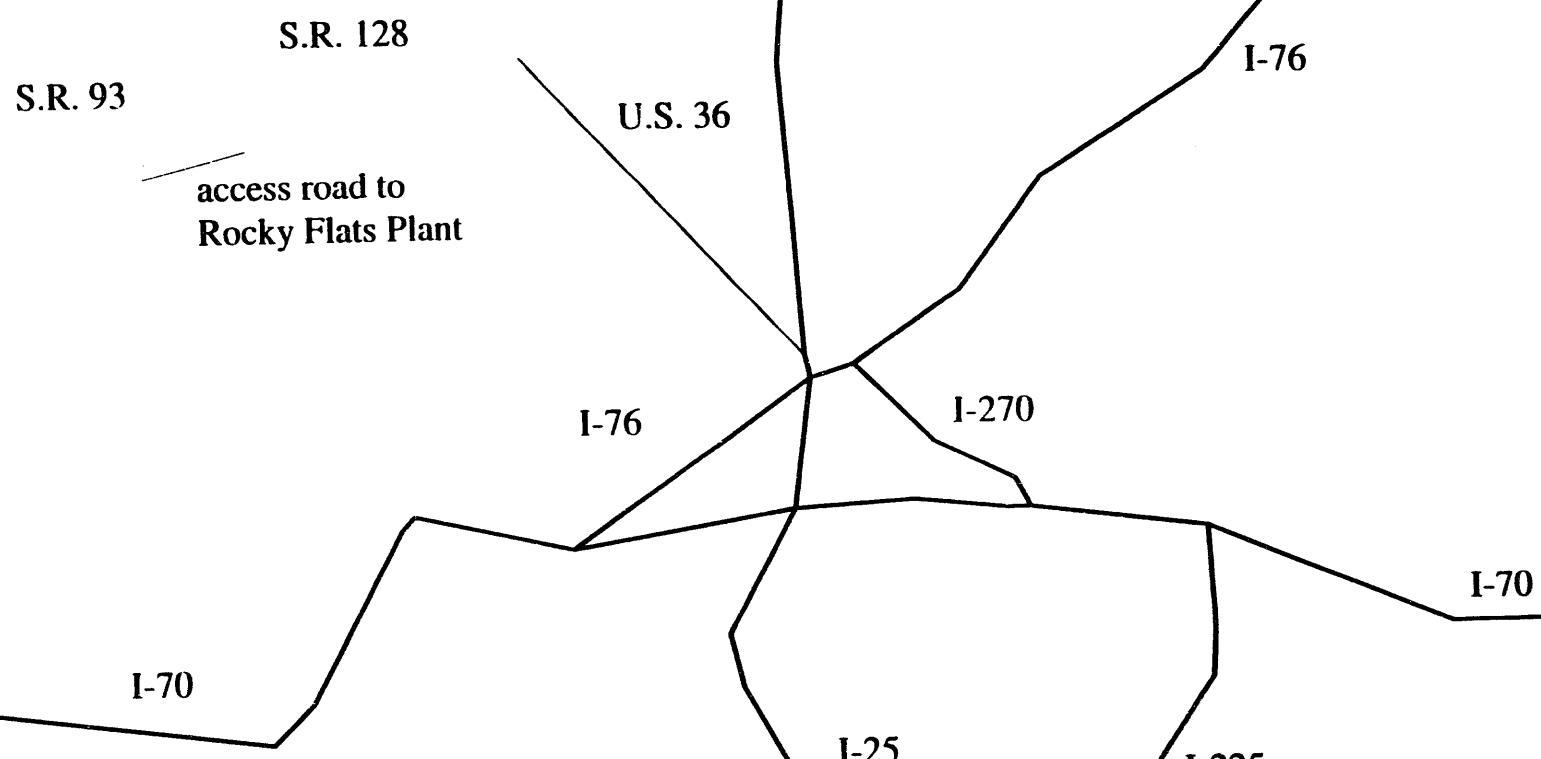
Colorado has designated the following roads, effective March 10, 1989, for access to the Rocky Flat Plant.

- U.S. 36 • From the junction of I-25 north of Denver to the junction of State Route(S.R) 128 near Broomfield
- S.R. 128 • From the junction with U.S. 36 near Broomfield to the junction of S.R. 93
- S.R. 93 • From the junction with S.R. 128 to the entrance of the Rocky Flats Plant.

COLORADO



DENVER and vicinity



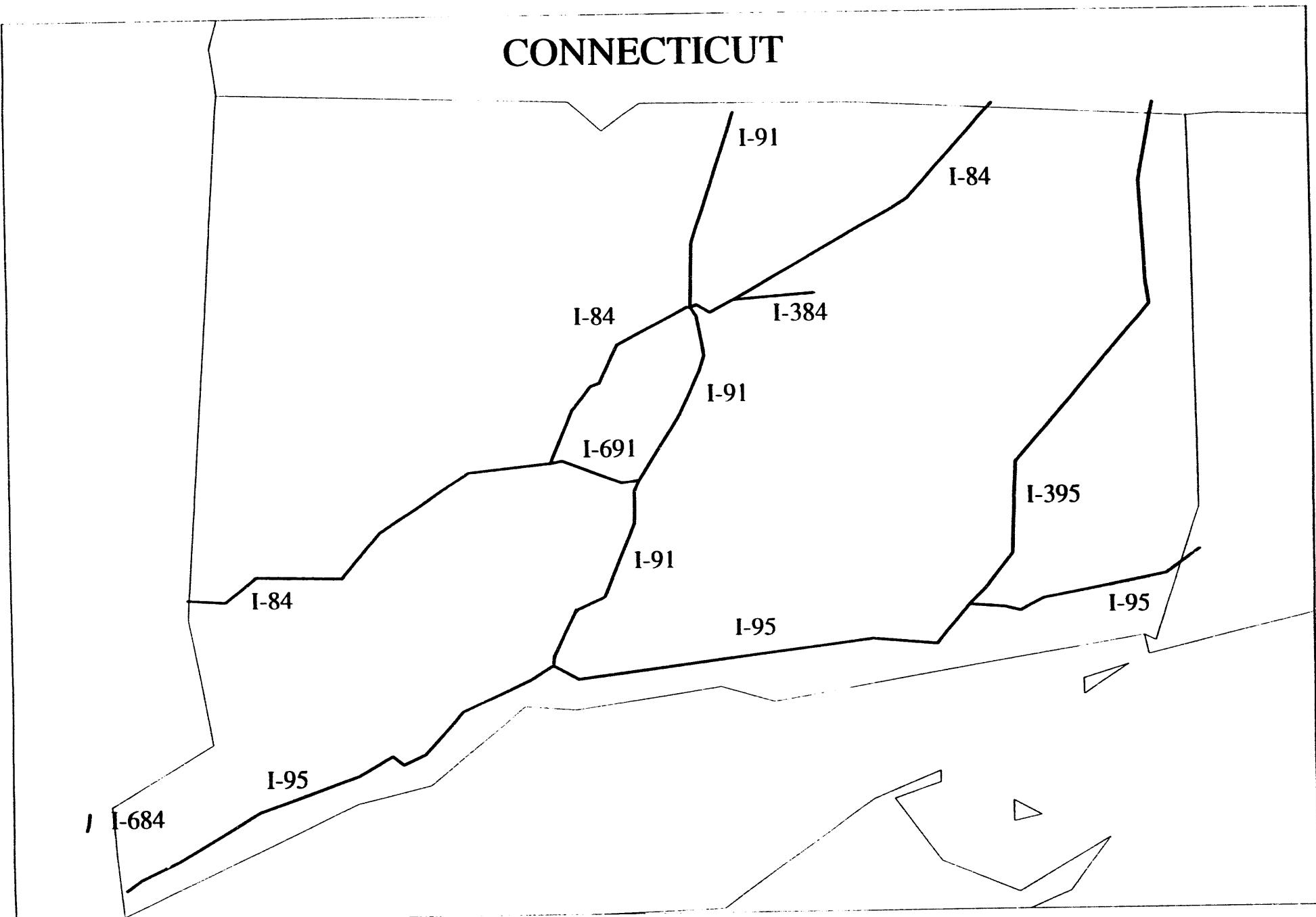
Preferred Routes in Connecticut

- I-384 • From the junction with I-84 east of Hartford to the end of I-384 east of Manchester
- I-395 • From the junction with I-95 west of New London to the Massachusetts state line
- I-684 • From the New York state line to the New York state line
- I-691 • From the junction with I-84 east of Waterbury to the junction of I-91 east of Meriden
- I-84 • From the New York state line to the Massachusetts state line
- I-91 • From I-95 in New Haven to the Massachusetts state line
- I-95 • From the New York state line to the Rhode Island state line

State Designated Preferred Routes

Connecticut has not designated any additional roads.

CONNECTICUT



Preferred Routes in Delaware

- I-295 • From the junction with I-95 southwest of Wilmington to the New Jersey state line
- I-495 • From the junction with I-95 southwest of Wilmington to the junction with I-95 northeast of Wilmington
- I-95 • From the Maryland state line to the junction of I-495 southwest of Wilmington
 • From the junction of I-495 northeast of Wilmington to the Pennsylvania state line

State Designated Preferred Routes

Delaware has not designated any additional roads.

DELAWARE

I-95
I-495
I-295
I-95

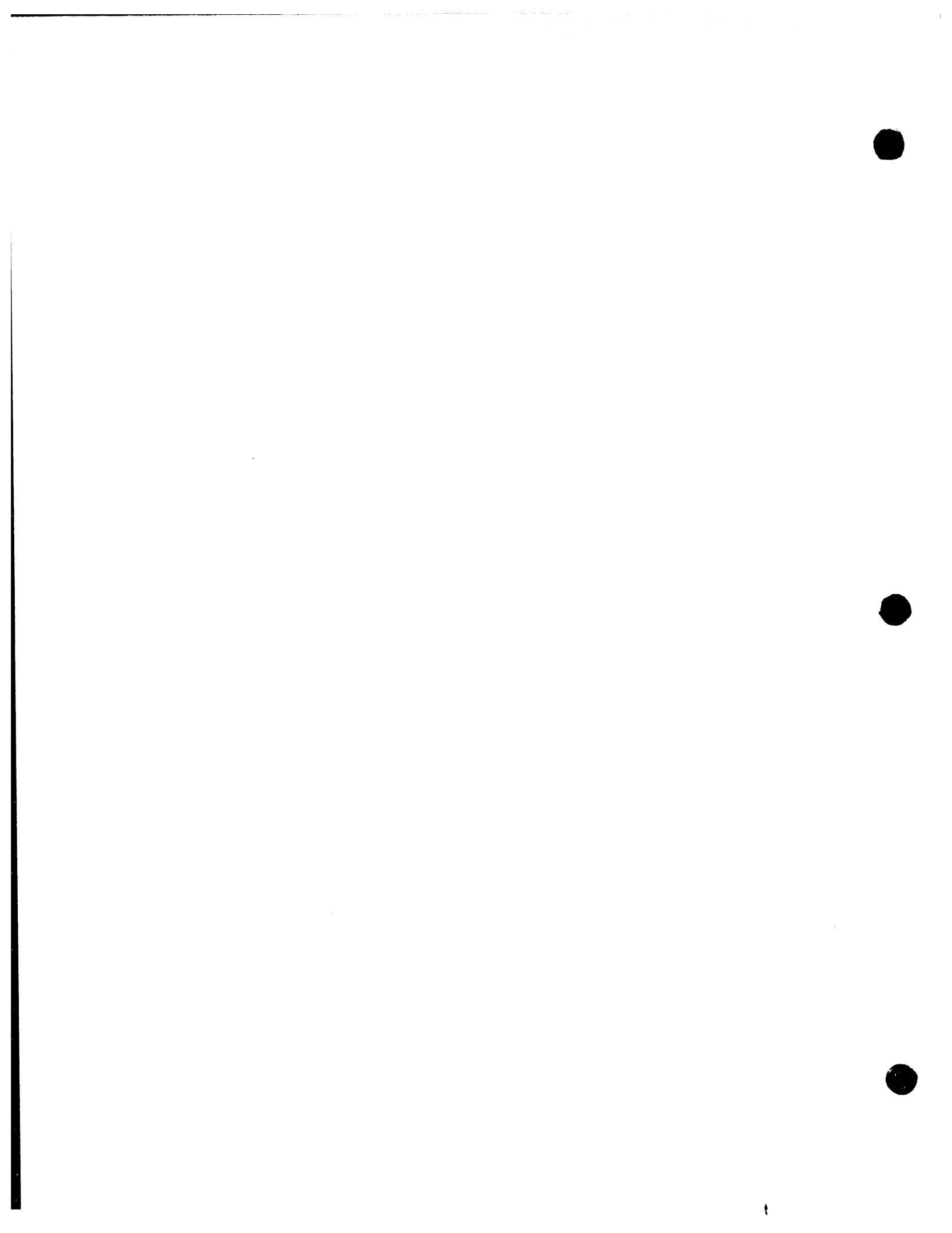
4.7.1 - Delaware

Preferred Routes in the District of Columbia

By definition, no roads within the District of Columbia are preferred routes. The District of Columbia is within an Interstate System beltway.

State Designated Preferred Routes

The District of Columbia has not designated any roads.

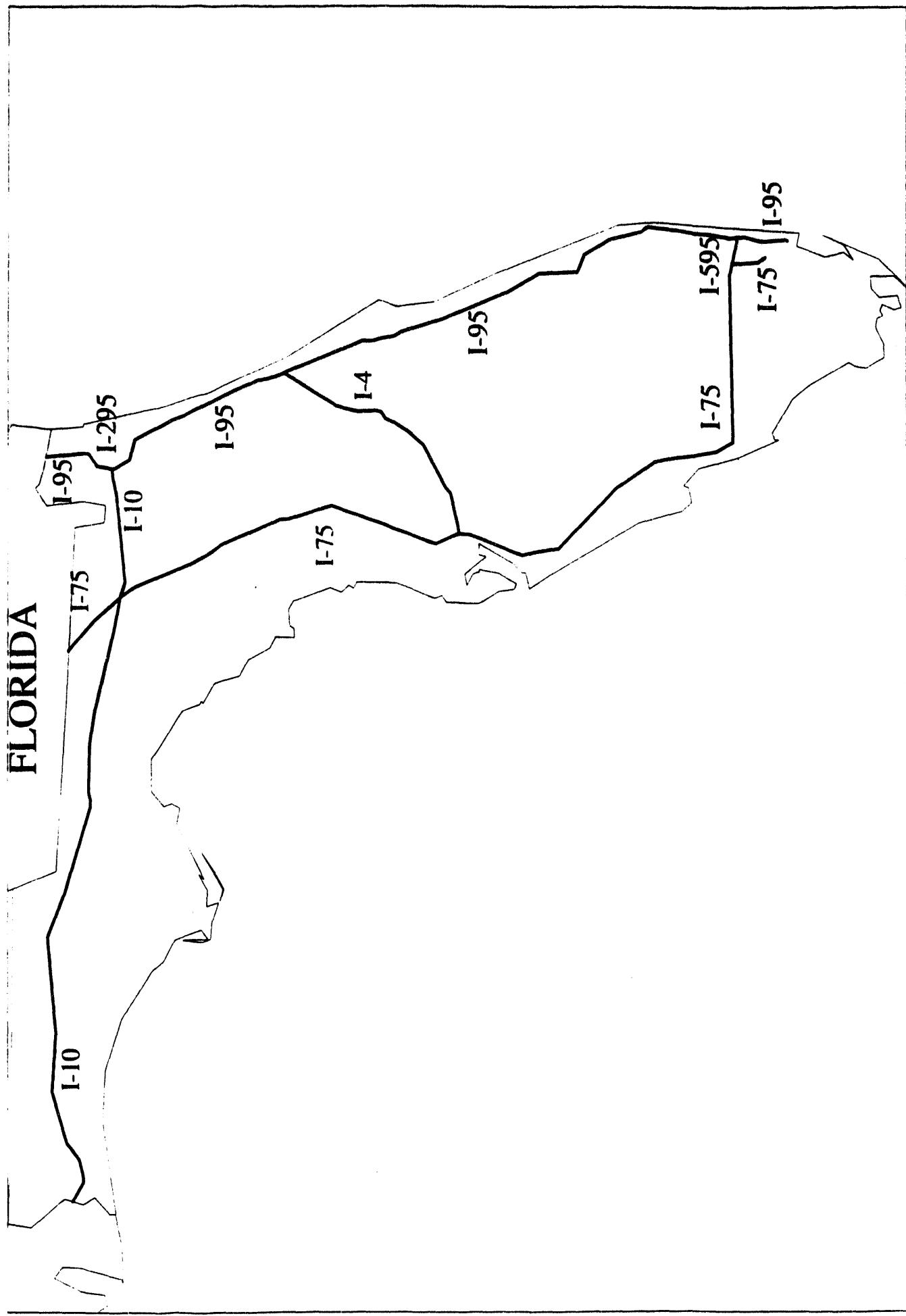


Preferred Routes in Florida

- I-10 • From the Alabama state line to the junction with I-295 west of Jacksonville
- I-295 • From the junction with I-95 southeast of Jacksonville to the junction with I-95 north of Jacksonville
- I-4 • From the junction with I-75 northeast of Tampa to the junction with I-95 near Daytona Beach
- I-595 • From the junction with I-75 west of Plantation to the junction with I-95 in Fort Lauderdale
- I-75 • From Hialeah to the Georgia state line
- I-95 • From Miami to the junction with I-295 southeast of Jacksonville
 • From the junction with I-295 north of Jacksonville to the Georgia state line

State Designated Preferred Routes

Florida has not designated any additional roads.

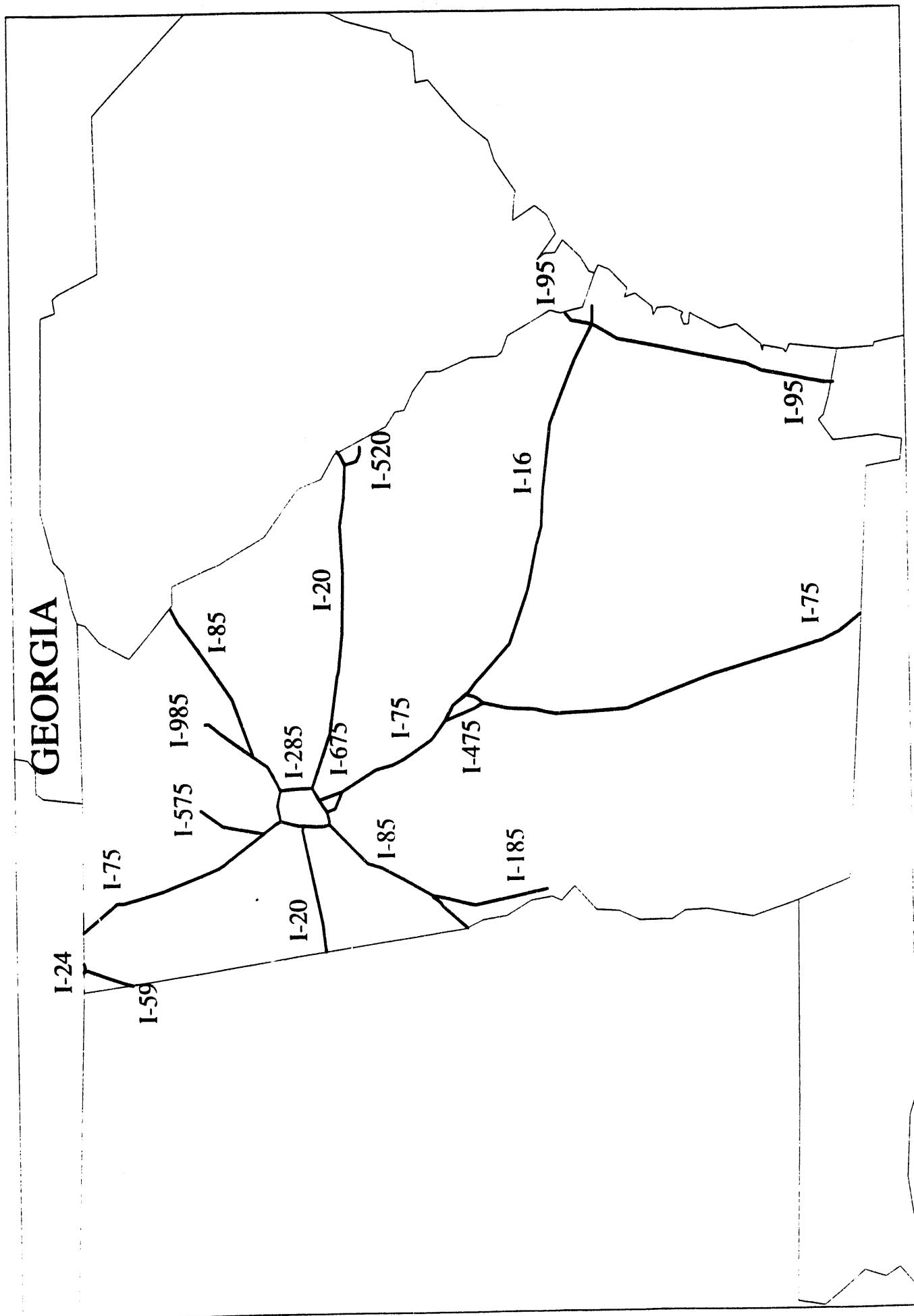


Preferred Routes in Georgia

- I-16 • From the junction with I-75 in Macon to Savannah
- I-185 • From the Columbus to the junction with I-85 east of La Grange
- I-20 • From the Alabama state line to the junction with I-285 west of Atlanta
• From the junction with I-285 east of Atlanta to the South Carolina state line
- I-24 • From the Tennessee state line to the Tennessee state line
- I-285 • The entire route around Atlanta
- I-475 • From the junction with I-75 southwest of Macon to the junction with I-75 northwest of Macon
- I-520 • From the junction with I-20 west of Augusta to the end of I-520 south of Augusta
- I-575 • From the junction with I-75 near Marietta to the end of I-575 near Ball Ground
- I-59 • From the Alabama state line to the junction with I-24
- I-675 • From the junction with I-75 east of Jonesboro to the junction with I-285 southeast of Atlanta
- I-75 • From the Florida state line to the junction with I-285 south of Atlanta
• From the junction with I-285 northwest of Atlanta to the Tennessee state line
- I-85 • From the Alabama state line to the junction with I-285 southwest of Atlanta
• From the junction with I-285 northeast of Atlanta to the South Carolina state line
- I-95 • From the Florida state line to the South Carolina state line
- I-985 • From the junction with I-85 south of Buford to Gainesville

State Designated Preferred Routes

Georgia has not designated any additional roads.



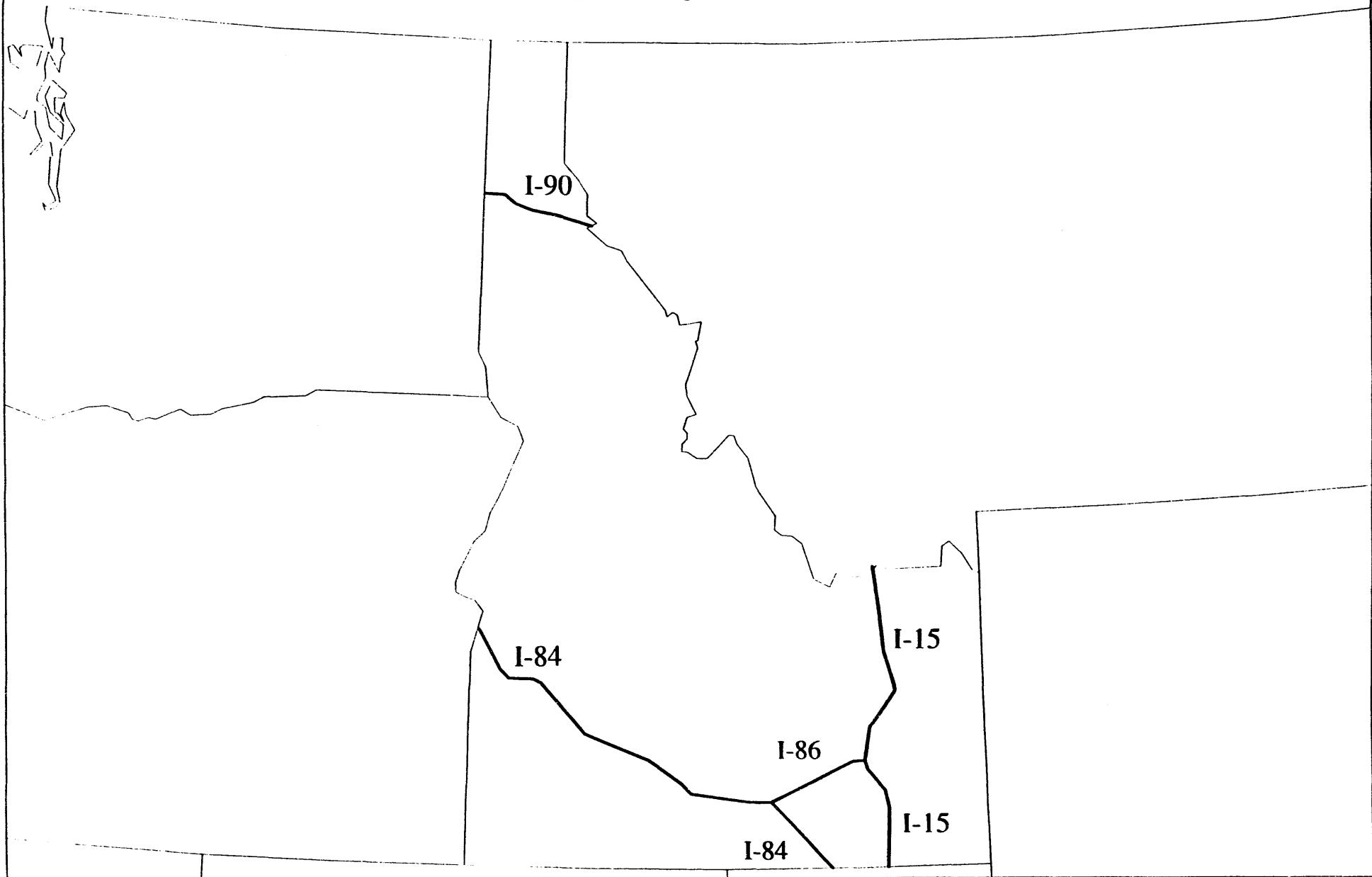
Preferred Routes in Idaho

- I-15 • From the Montana state line to the Utah state line
- I-84 • From the Oregon state line to the Utah state line
- I-86 • From I-15 to I-84
- I-90 • From the Montana state line to the Washington state line

State Designated Preferred Routes

Idaho has not designated any additional roads.

IDAHO



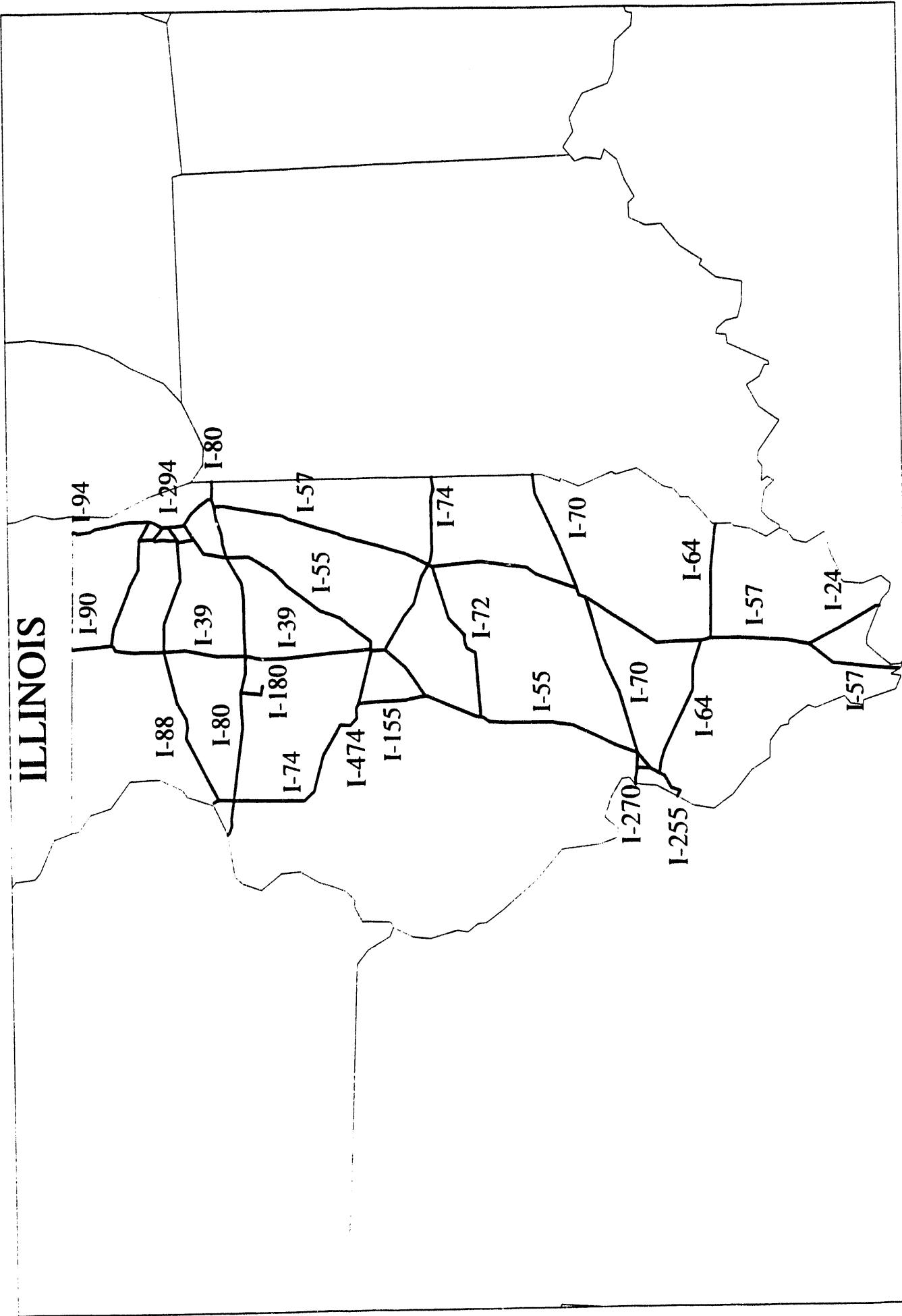
Preferred Routes in Illinois

- I-155 • From the junction with I-55 northwest of Lincoln to junction with I-74 southeast of Peoria
- I-180 • From the junction with I-80 to the end of I-180 near Hennipen
- I-24 • From the Kentucky state line to the junction with I-57 south of Marion
- I-255 • From the Missouri state line to the junction with I-270 southwest of Edwardsville
- I-270 • From the Missouri state line to the junction with I-55 and I-70 southeast of Edwardsville
- I-280 • From the Iowa state line to the junction with I-74 south of Moline
- I-290 • From the junction with I-90 near Schaumburg to the junction with I-294 in Elmhurst
- I-294 • From the junction with I-80 near Homewood to the junction with I-94 near Northbrook
- I-294/I-80 • From the junction with I-294 and I-80 near Homewood to the junction with I-94 near Lansing
- I-355 • From the junction with I-290 near Itasca to the junction with I-55 in Bolingbrook
- I-39 • From the junction with I-55 north of Normal to the junction with I-90 southeast of Rockford
- I-474 • From the junction with I-74 northwest of Peoria to the junction with I-74 southeast of Peoria
- I-55 • From the junction with I-270 and I-70 southeast of Edwardsville to the junction with I-74 south of Bloomington
- From the junction with I-74 northwest of Normal to the junction with I-294 southwest of Chicago
- I-55/I-70 • From the junction of I-255 northeast of East St. Louis to the junction of I-270/I-55/I-70 southeast of Edwardsville
- I-55/I-74 • From the junction of I-55 and I-74 south of Bloomington to the junction of I-55 and I-74 northwest of Normal
- I-57 • From the Missouri state line to the junction with I-64 southwest of Mount Vernon
- From the junction with I-64 northwest of Mount Vernon to the junction with I-70 southwest of Effingham
- From the junction with I-70 northeast of Effingham to the junction with I-80 near Tinley Park
- I-57/I-64 • From the junction of I-57 and I-64 southwest of Mount Vernon to the junction of I-57 and I-64 northwest of Mount Vernon
- I-57/I-70 • From the junction of I-57 and I-70 southwest of Effingham to the junction of I-57 and I-70 northeast of Effingham
- I-64 • From the junction with I-255 east of East St. Louis to the junction with I-57 northwest of Mount Vernon
- From the junction with I-57 southwest of Mount Vernon to the Indiana state line
- I-70 • From the junction with I-270 and I-55 southeast of Edwardsville to the junction with I-57 southwest of Edwardsville
- From the junction with I-57 northeast of Edwardsville to the Indiana state line
- I-72 • From the junction with I-55 east of Springfield to the junction with I-72 west of Champaign
- I-74 • From the junction with I-280 south of Moline to the junction with I-474 northwest of Peoria
- From the junction with I-474 southeast of Peoria to the junction with I-74 northwest of Normal
- From the junction of I-55 south of Bloomington to the Indiana state line
- I-80 • From the Iowa state line to the junction with I-294 near Homewood
- I-80/I-94 • From the junction of I-294/I-80/I-94 near Lansing to the Indiana state line
- I-88 • From the junction with I-80 east of East Moline to the junction with I-294 near Elmhurst
- I-90 • From the Wisconsin state line to the junction with I-294 near O'Hare Airport
- I-94 • From the Wisconsin state line to the junction with I-294 near Northbrook

State Designated Preferred Routes

Illinois has not designated any additional roads.

ILLINOIS

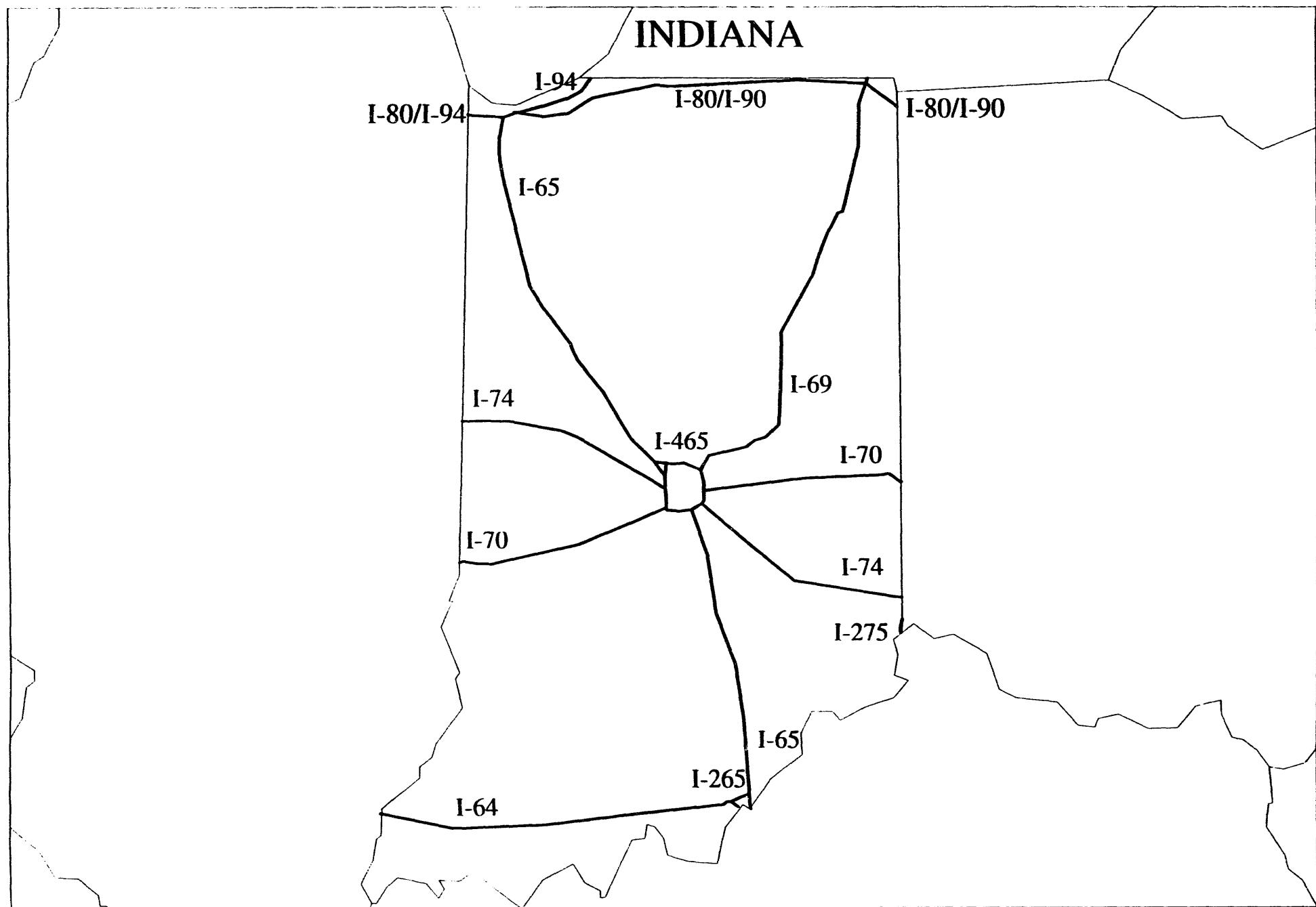


Preferred Routes in Indiana

- I-265
 - From the junction with I-64 west of New Albany to the junction with I-65 north of Clarksville
- I-275
 - From the Kentucky state line to the Ohio state line
- I-465
 - The entire route around Indianapolis
- I-64
 - From the Illinois state line to the Kentucky state line
- I-65
 - From the Kentucky state line to the junction with I-465 south of Indianapolis
 - From the junction with I-465 northwest of Indianapolis to the junction with I-80/I-94 near Gary
- I-69
 - From the junction of I-465 northeast of Indianapolis to the Michigan state line
- I-70
 - From the Illinois state line to the junction with I-465 southwest of Indianapolis
 - From the junction with I-465 east of Indianapolis to the Ohio state line
- I-74
 - From the Illinois state line to the junction with I-465 northwest of Indianapolis
 - From the junction with I-465 southeast of Indianapolis to the Ohio state line
- I-80/I-90
 - From the junction of I-80/I-90/I-94 near Portage to the Ohio state line
- I-80/I-94
 - From the Illinois state line to the junction of I-80/I-90/I-94 near Portage
- I-94
 - From the junction of I-80/I-90/I-94 near Portage to the Michigan state line

State Designated Preferred Routes

Indiana has not designated any additional roads.



Preferred Routes in Iowa

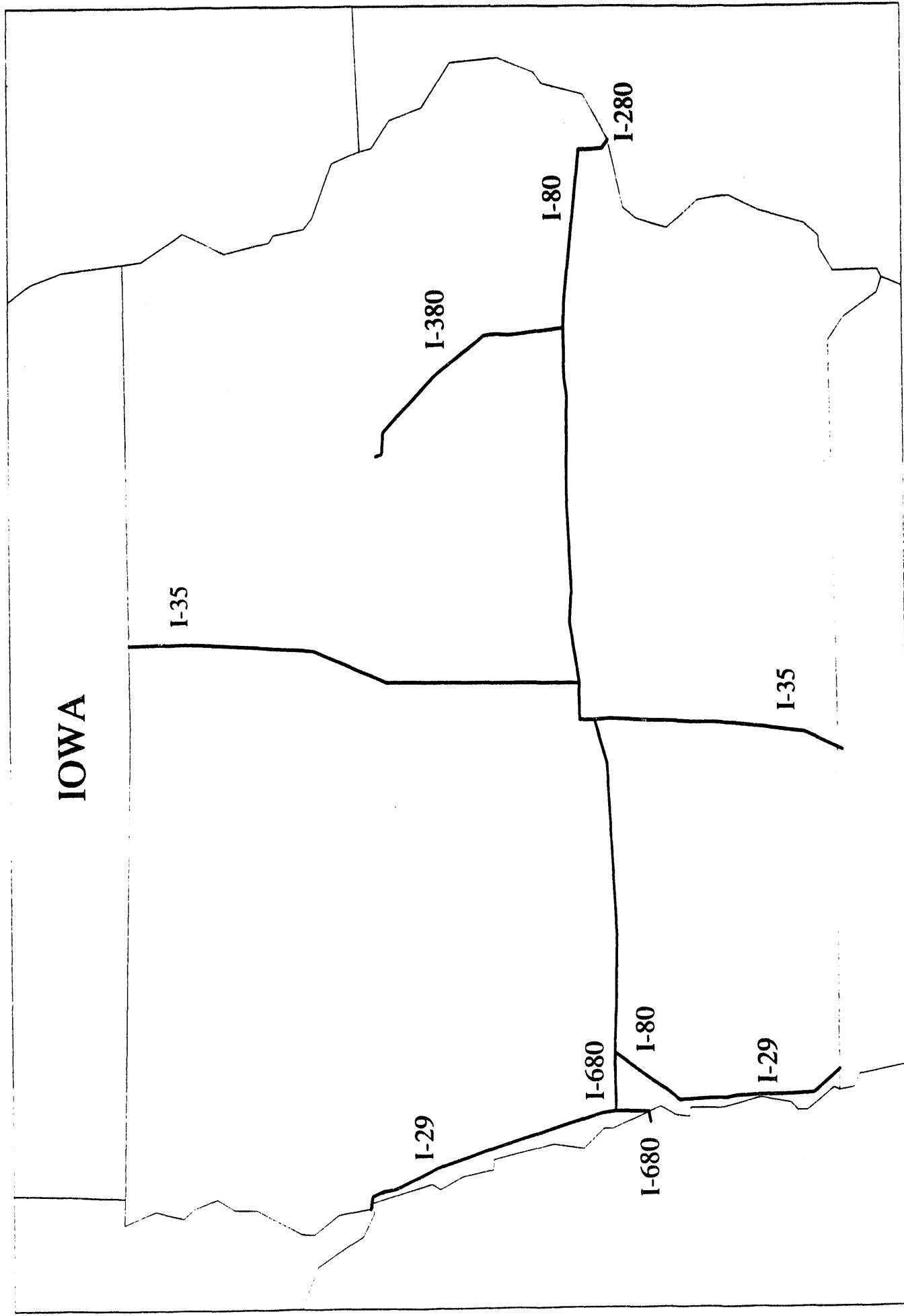
- I-129
 - From the Nebraska state line to the junction with I-29 south of Sioux City
- I-280
 - From the Illinois state line to the junction with I-80 northwest of Davenport
- I-29
 - From the Missouri state line to the junction with I-80 southeast of Council Bluffs
 - From the junction with I-680 south of Missouri Valley to the South Dakota state line
- I-29/I-680
 - From the junction of these roads north of Council Bluffs to south of Missouri Valley
- I-35
 - From the Missouri state line to the junction with I-80 west of Des Moines
 - From the junction with I-80 north of Des Moines to the Minnesota state line
- I-35/I-80
 - From the junction of these roads north of Des Moines to west of Des Moines
- I-380
 - From the junction of I-80 northwest of Iowa City to Waterloo
- I-680
 - From the Nebraska state line to the junction with I-29 north of Council Bluffs
 - From the junction with I-29 south of Missouri Valley to the junction with I-80 northeast of Council Bluffs
- I-80
 - From the junction with I-29 southeast of Council Bluffs to the junction with I-35 west of Des Moines
 - From the junction with I-35 north of Des Moines to the junction with I-280 northwest of Davenport

State Designated Preferred Routes

Iowa has designated, as of September 1, 1988, that the following routes be used:

- I-280 in lieu of I-80 through the Quad Cities areas
- I-35/I-80 in lieu of I-235 through Des Moines
- I-80 and I-680 in lieu of I-29 through the Council Bluffs area

IOWA



4.14.1-a

Preferred Routes in Kansas

- I-135 • From the junction with I-235 north of Wichita to the junction with I-70 near Salina
- I-235 • From the junction with I-235 north of Wichita to the junction with I-35 south of Wichita
- I-335 • From the junction with I-35 near Emporia to the junction with I-470 south of Topeka
- I-35 • From the Oklahoma state line to the junction with I-435 near Overland Park
- I-435 • From the Missouri state line northwest of Kansas City to the Missouri state line south of Kansas City
- I-470 • From the junction with I-70 west of Topeka to the junction with I-70 east of Topeka
- I-70 • From the Colorado state line to the junction with I-470 west of Topeka
 • From the junction with I-470 east of Topeka to the junction with I-435 west of Kansas City

State Designated Preferred Routes

Kansas has not designated any additional roads.

KANSAS

I-70

I-70

I-470

I-435

I-435

I-135

I-335

I-35

I-235

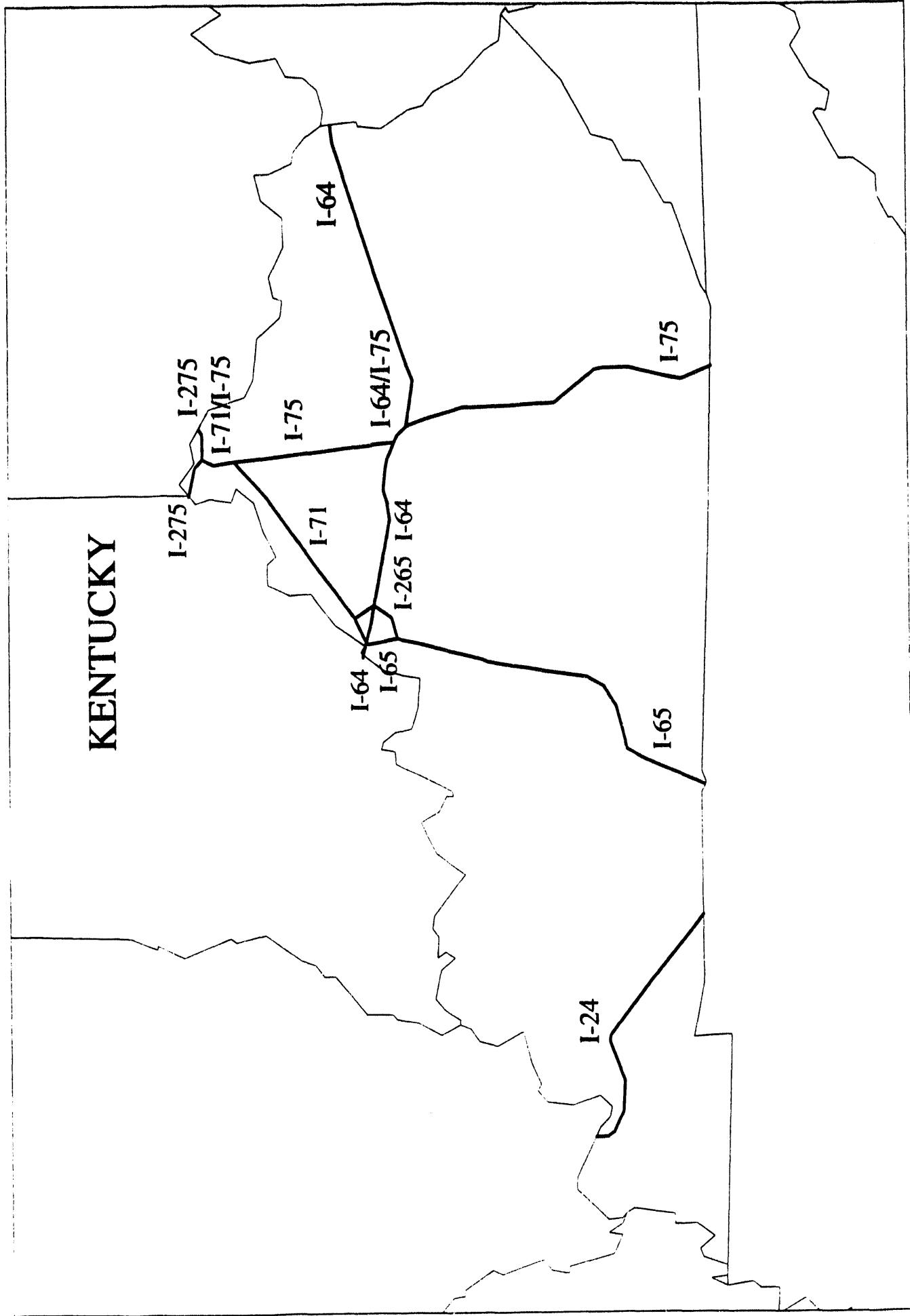
I-35

Preferred Routes in Kentucky

- I-24 • From the Tennessee state line to the Illinois state line
- I-265 • From the junction with I-265 south of Louisville to the junction with I-71 northeast of Louisville
- I-275 • From the Ohio state line to the Indiana state line
- I-64 • From the Indiana state line to the junction with I-75 north of Lexington
 - From the junction with I-75 east of Lexington to the West Virginia state line
- I-64/I-75 • From the junction of I-64 and I-75 north of Lexington to the junction of I-64 and I-75 east of Lexington
- I-65 • From the Tennessee state line to the Indiana state line
- I-71 • From the junction with I-64 in Louisville to the junction with I-71 near Walton
- I-71/I-75 • From the junction of I-71 and I-75 near Walton to the junction with I-275 near Erlanger
- I-75 • From the Tennessee state line to the junction with I-64 east of Lexington
 - From the junction with I-64 north of Lexington to the junction with I-71 near Walton

State Designated Preferred Routes

Kentucky has designated, on November 2, 1988, the above listed highways as the preferred routes in their state.

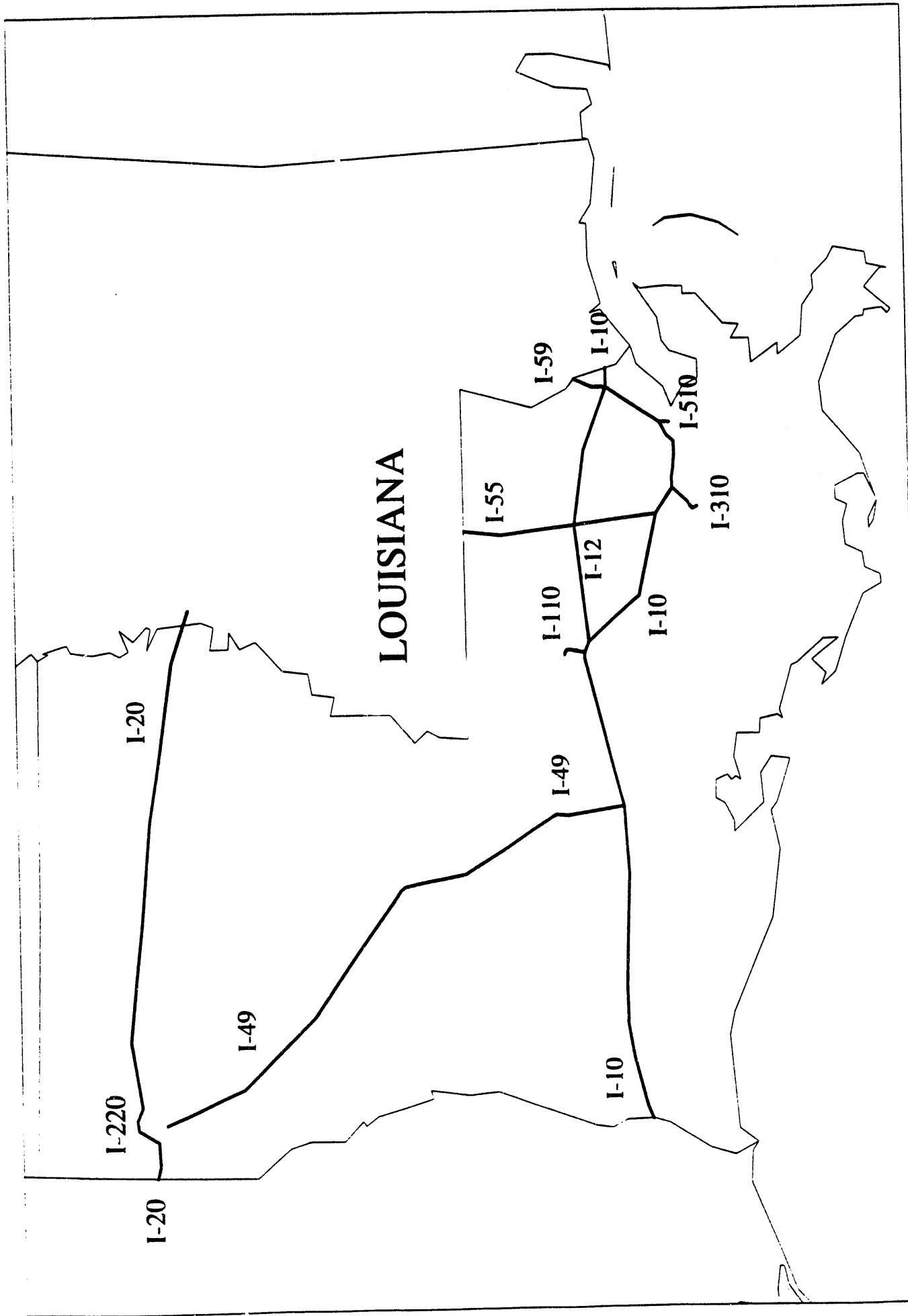


Preferred Routes in Louisiana

- I-10
 - From the Texas state line to the junction with I-610 northwest of downtown New Orleans
 - From the junction with I-610 northeast of downtown New Orleans to the Mississippi state line
- I-110
 - From the junction with I-10 in Baton Rouge to the end of I-110
- I-12
 - From the junction with I-10 in Baton Rouge to the junction with I-10 and I-59 near Slidell
- I-20
 - From the Texas state line to the junction with I-220 west of Shreveport
 - From the junction with I-220 east of Bossier City to the Mississippi state line
- I-220
 - From the junction with I-20 west of Shreveport to the junction with I-20 east of Bossier City
- I-310
 - From the junction with I-10 west of New Orleans to the end of I-310
- I-49
 - From the junction with I-10 near Lafayette to Shreveport (parts of this road are not completed yet)
- I-510
 - From the junction with I-10 east of New Orleans to the end of I-510
- I-55
 - From the Mississippi state line to the junction with I-10 near La Place
- I-59
 - From the Mississippi state line to the junction with I-10 and I-12 near Slidell
- I-610
 - From the junction with I-10 northwest of downtown New Orleans to the junction with I-10 northeast of downtown New Orleans

State Designated Preferred Routes

Louisiana has not designated any additional roads.

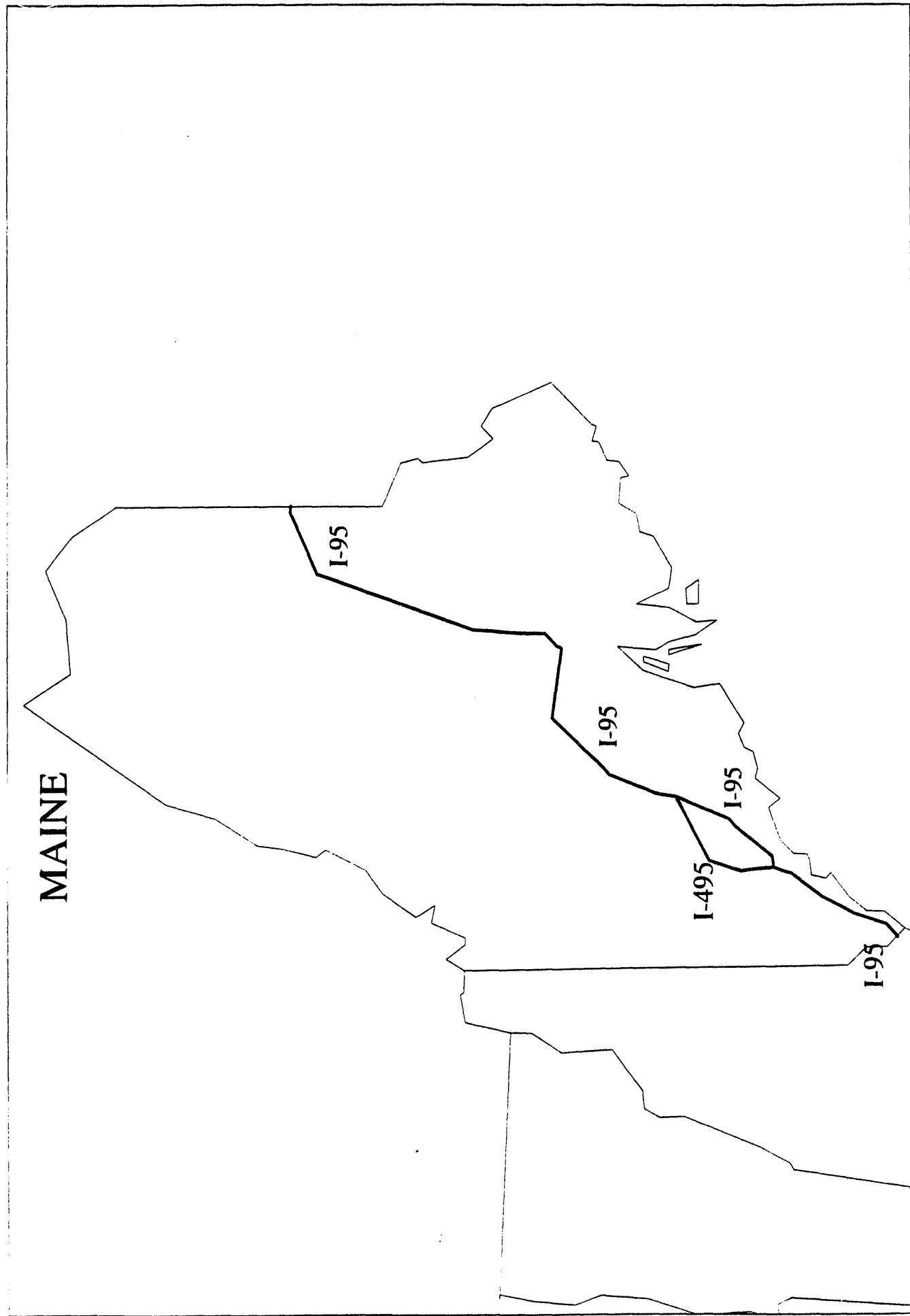


Preferred Routes in Maine

- I-495 • From the junction with I-95 north of Portland to the junction with I-95 south of Augusta
- I-95 • From the New Hampshire state line to the Canadian border

State Designated Preferred Routes

Maine has not designated any additional roads.



4.18.1 - Maine

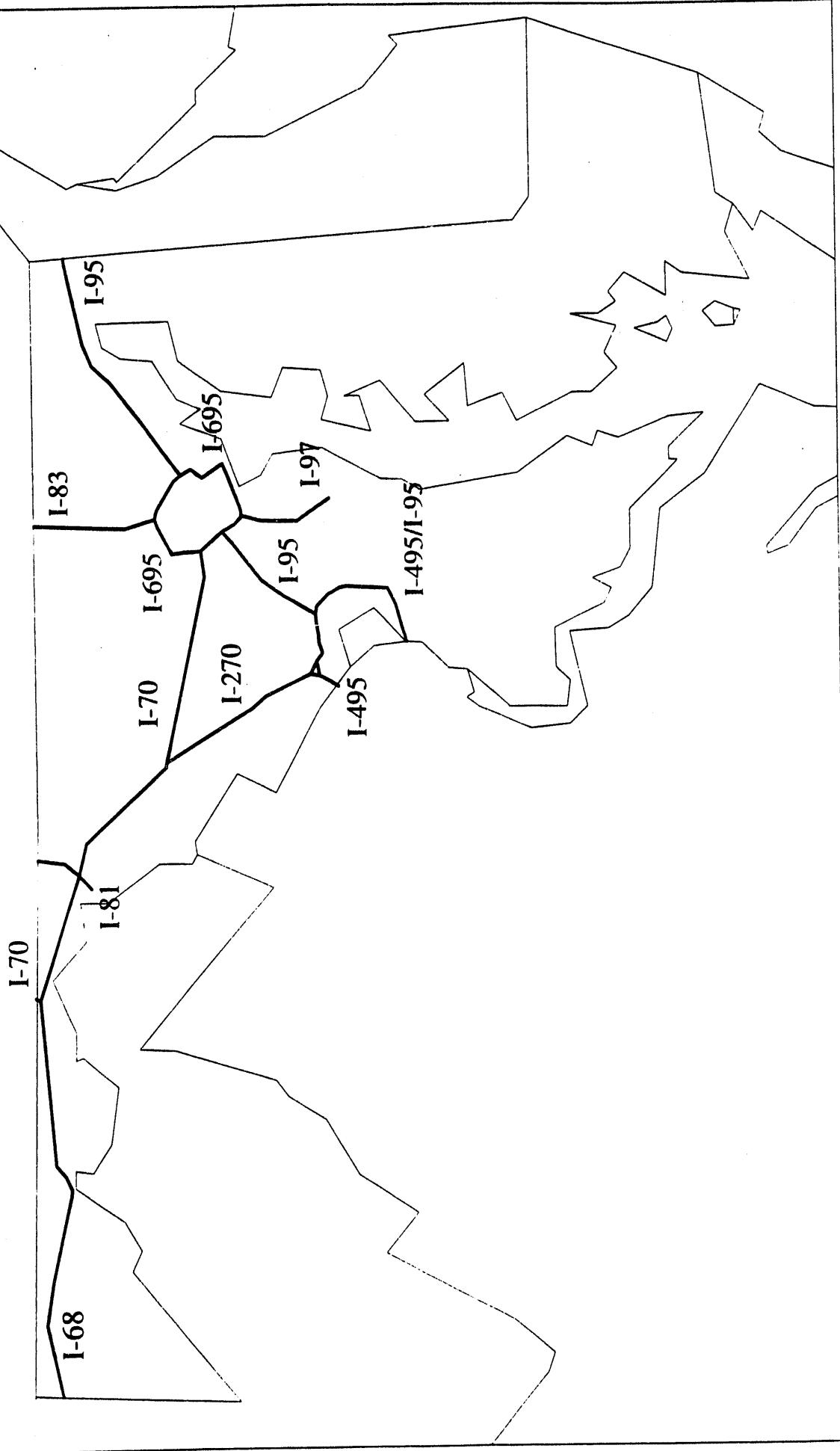
Preferred Routes in Maryland

- I-270 • From the junction with I-495 north of Bethesda to the junction with I-70 in Frederick
- I-270Spur • From the junction with I-494 northwest of Bethesda to the junction with I-270 south of Rockville
- I-495 • From the Virginia state line to the junction with I-95 southwest of Beltsville
- I-495/I-95 • From the Virginia state line to the junction with I-95 southwest of Beltsville
- I-68 • From the West Virginia state line to the junction with I-70 near Hancock
- I-695 • The entire route around Baltimore
- I-70 • From the Pennsylvania state line to the junction with I-695 west of Baltimore
- I-81 • From the West Virginia state line to the Pennsylvania state line
- I-83 • From the junction with I-695 north of Baltimore to the Pennsylvania state line
- I-95 • From the junction with I-495 southwest of Beltsville to the junction with I-695 southwest of Baltimore
 - From the junction with I-695 northeast of Baltimore to the Delaware state line
- I-97 • From the junction with I-695 south of Baltimore to the end of I-97 near Annapolis

State Designated Preferred Routes

Maryland has not designated any additional roads.

MARYLAND



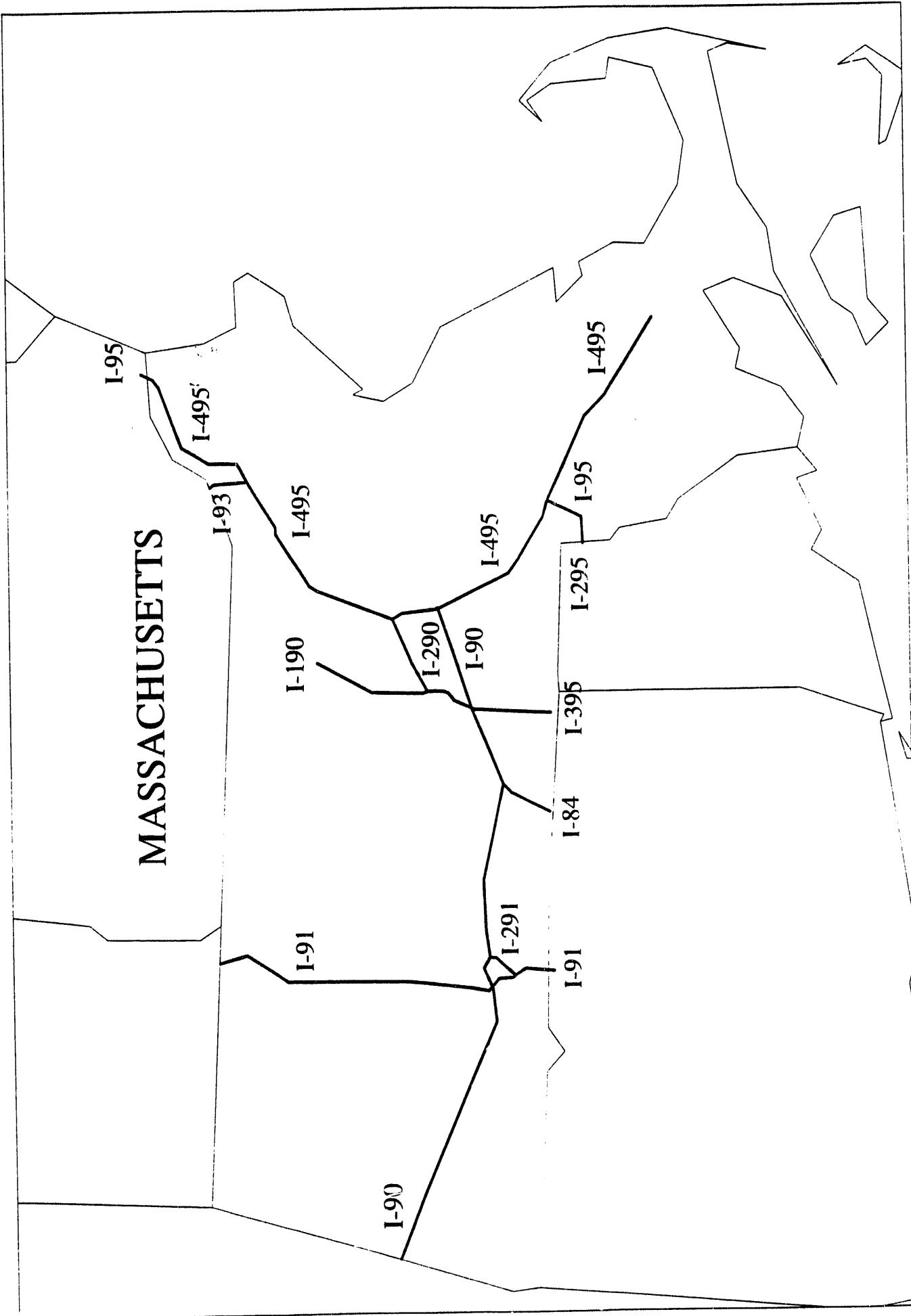
Preferred Routes in Massachusetts

- I-190 • From the junction with I-290 in Worcester to the end of I-190 near Leominster
- I-290 • From the junction with I-395 and I-90 south of Worcester to the junction with I-495 near Marlborough
- I-291 • From the junction with I-91 in Springfield to the junction with I-90 northeast of Springfield
- I-295 • From the Rhode Island state line to the junction with I-95 near Attleboro
- I-395 • From the Connecticut state line to the junction with I-290 and I-90 south of Worcester
- I-495 • From the junction with I-195 north of Wareham to the junction with I-95 east of Amesbury
- I-84 • From the Connecticut state line to the junction with I-90 north of Sturbridge
- I-90 • From the New York state line to the junction with I-495 west of Framingham
- I-91 • From the Connecticut state line to the Vermont state line
- I-93 • From the junction with I-495 southeast of Lawrence to the New Hampshire state line
- I-95 • From the junction with I-295 near Attlesboro to the junction with I-495 south of Foxboro
 • From the junction with I-495 east of Amesbury to the New Hampshire state line

State Designated Preferred Routes

Massachusetts has not designated any additional roads.

MASSACHUSETTS

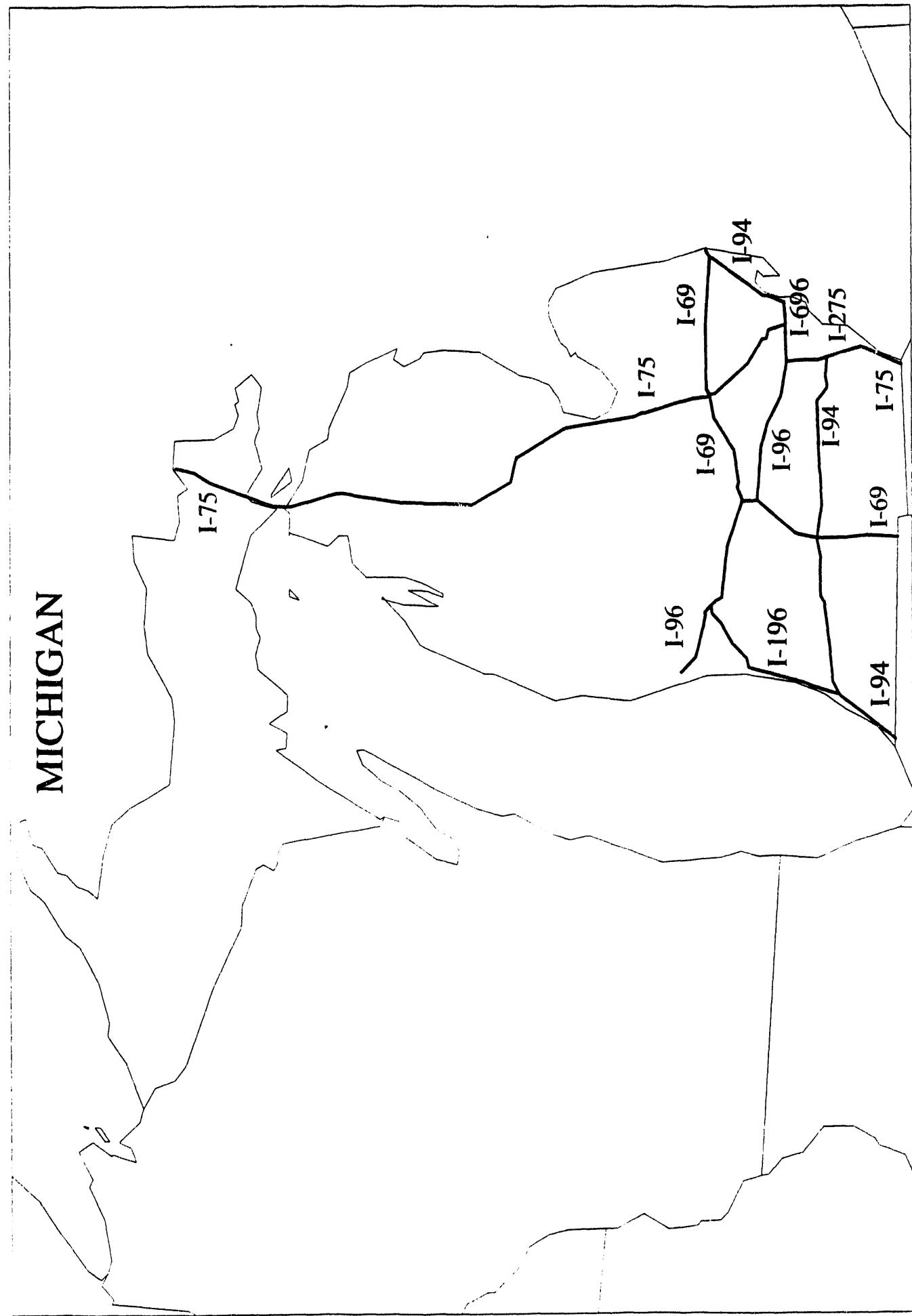


Preferred Routes in Michigan

- I-196 • From the junction with I-94 east of Benton Harbor to the junction of I-96 east of Grand Rapids
- I-275 • From the junction with I-75 northeast of Monroe to the junction with I-96 near Plymouth
- I-275/I-96 • From the junction with I-696 in Farmington Hills to the junction of I-275/I-96 near Plymouth
- I-69 • From the Indiana state line to the junction with I-96 southwest of Lansing
• From the junction with I-96 northeast of Lansing to the junction with I-94 near Port Huron
- I-69/I-96 • From the junction of I-69 and I-96 southwest of Lansing to the junction of I-69 and I-96 northwest of Lansing
- I-696 • From the junction with I-275 and I-96 in Farmington Hills to the junction with I-94 in St. Clair Shores
- I-75 • From the Ohio state line to the junction with I-275 northeast of Monroe
• From the junction with I-696 north of Detroit to the Canadian border
- I-94 • From the Indiana state line to the junction with I-275 near Romulus
• From the junction with I-696 in St. Clair Shores to the Canadian border
- I-96 • From the Muskegon to the junction with I-69 northwest of Lansing
• From the junction with I-69 southwest of Lansing to the junction with I-275 and I-696 in Farmington Hills

State Designated Preferred Routes

Michigan has not designated any additional roads.



4.21.1 - Michigan

Preferred Routes in Minnesota

- I-35
 - From the Iowa state line to the junction of I-35E/I-35W in Apple Valley
 - From the junction of I-35E/I-35W northeast of Lino Lakes to the end of I-35 in Duluth
- I-35E
 - From the junction with I-35/I-35W in Apple Valley to the junction with I-494 in Mendota Heights
 - From the junction with I-694 southwest of White Bear Lake to the junction of I-35/I-35W northeast of Lino Lakes
- I-35W
 - From the junction with I-35/I-35E in Apple Valley to the junction with I-494 in Bloomington
 - From the junction with I-694 in New Brighton to the junction of I-35/I-35E northeast of Lino Lakes
- I-494
 - From the junction of I-94 in Maple Grove to the junction of I-694 and I-94 east of St. Paul
- I-535
 - From the junction of I-35 in Duluth to the Wisconsin state line
- I-694
 - From the junction with I-494 and I-94 east of St. Paul to the junction with I-94 in Brooklyn Center
- I-90
 - From the South Dakota state line to the Wisconsin state line
- I-94
 - From the North Dakota state line to the junction with I-694 in Brooklyn Center
 - From the junction with I-494 and I-694 east of St. Paul to the Wisconsin state line

State Designated Preferred Routes

Minnesota has not designated any additional roads.

MINNESOTA

I-94

I-35

I-535

I-494

I-94

I-35

I-90

I-90

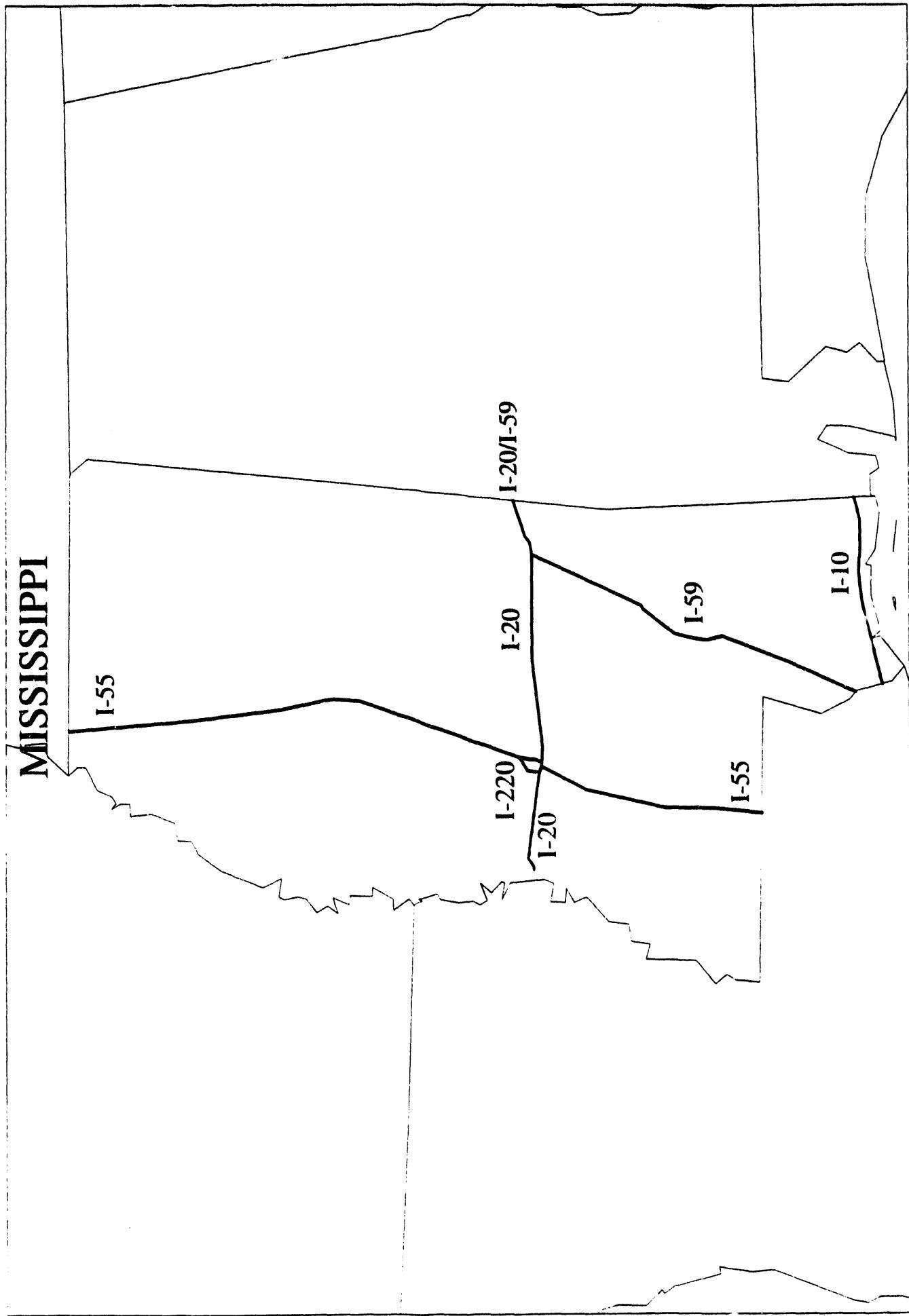
Preferred Routes in Mississippi

- I-20
 - From the Louisiana state line to the junction of I-55 southwest of Jackson
 - From the junction with I-55 south of Jackson to the junction with I-59 west of Meridian
- I-20/I-55
 - From the junction with I-20 and I-55 southwest of Jackson to the junction with I-20 and I-55 south of Jackson
- I-20/I-59
 - From the junction with I-20 and I-59 west of Meridian to the Alabama state line
- I-220
 - From the junction with I-55 north of Jackson to the junction with I-20 west of Jackson
- I-55
 - From the Louisiana state line to the junction with I-20 southwest of Jackson
 - From the junction with I-20 south of Jackson to the Louisiana state line
- I-59
 - From the Louisiana state line to the junction with I-20 west of Meridian
- I-10
 - From the Louisiana state line to the Alabama state line

State Designated Preferred Routes

Mississippi has not designated any additional roads.

MISSISSIPPI



4.23.1 - Mississippi

Preferred Routes in Missouri

- I-155 • From the junction with I-55 near Caruthersville to the Tennessee state line
- I-255 • From the junction with I-55 and I-270 south of St. Louis to the Illinois state line
- I-270 • From the junction with I-55 and I-255 south of St. Louis to the Illinois state line
- I-29 • From the junction with I-435 near the Kansas City International Airport to the Iowa state line
- I-35 • From the junction with I-435 northeast of Kansas City to the Iowa state line
- I-435 • From the junction with I-29 northwest of Kansas City to the Kansas state line
• From the junction with I-29 near the Kansas City International Airport to the Kansas state line (around the north, east, and southern portions of the metropolitan area)
- I-44 • From the Oklahoma state line to the junction of I-270 southwest of St. Louis
- I-470 • From the junction with I-435 south of Kansas City to the junction with I-70 near Independence
- I-55 • From the Arkansas state line to the junction with I-270 and I-255 south of St. Louis
- I-57 • From the Illinois state line to the junction with I-55 near Sikeston
- I-70 • From the junction with I-470 near Independence to the junction with I-270 northwest of St. Louis

State Designated Preferred Routes

Missouri has not designated any additional roads.

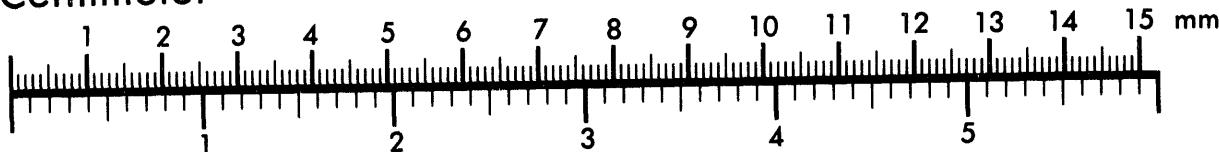


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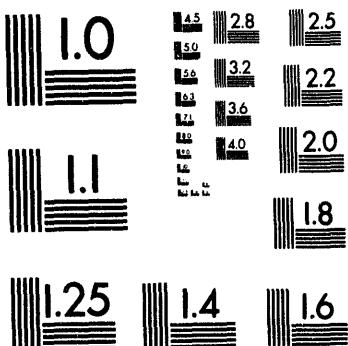
Association for Information and Image Management

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Silver Spring, Maryland 20910
301/587-8202

Centimeter



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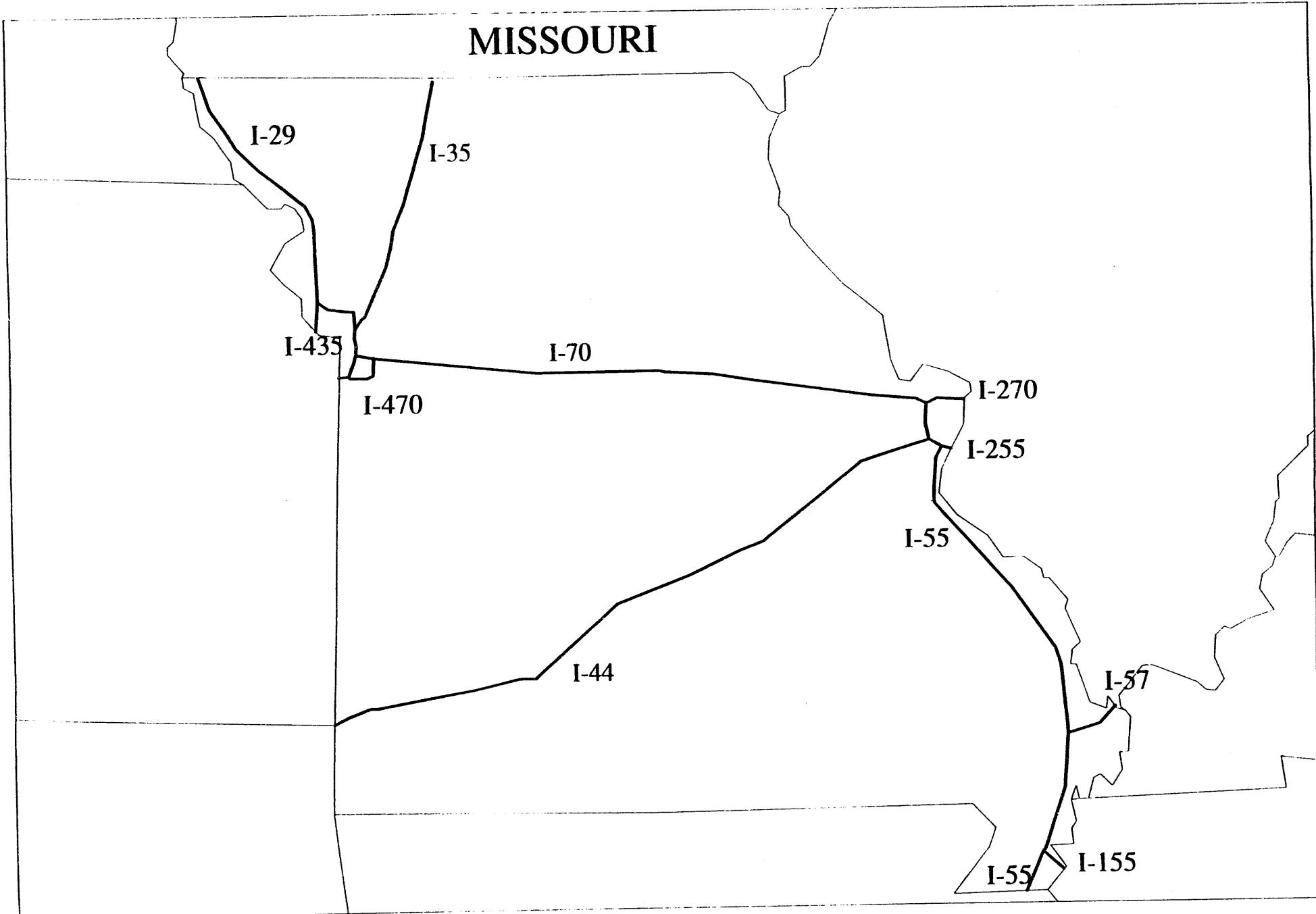
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MISSOURI



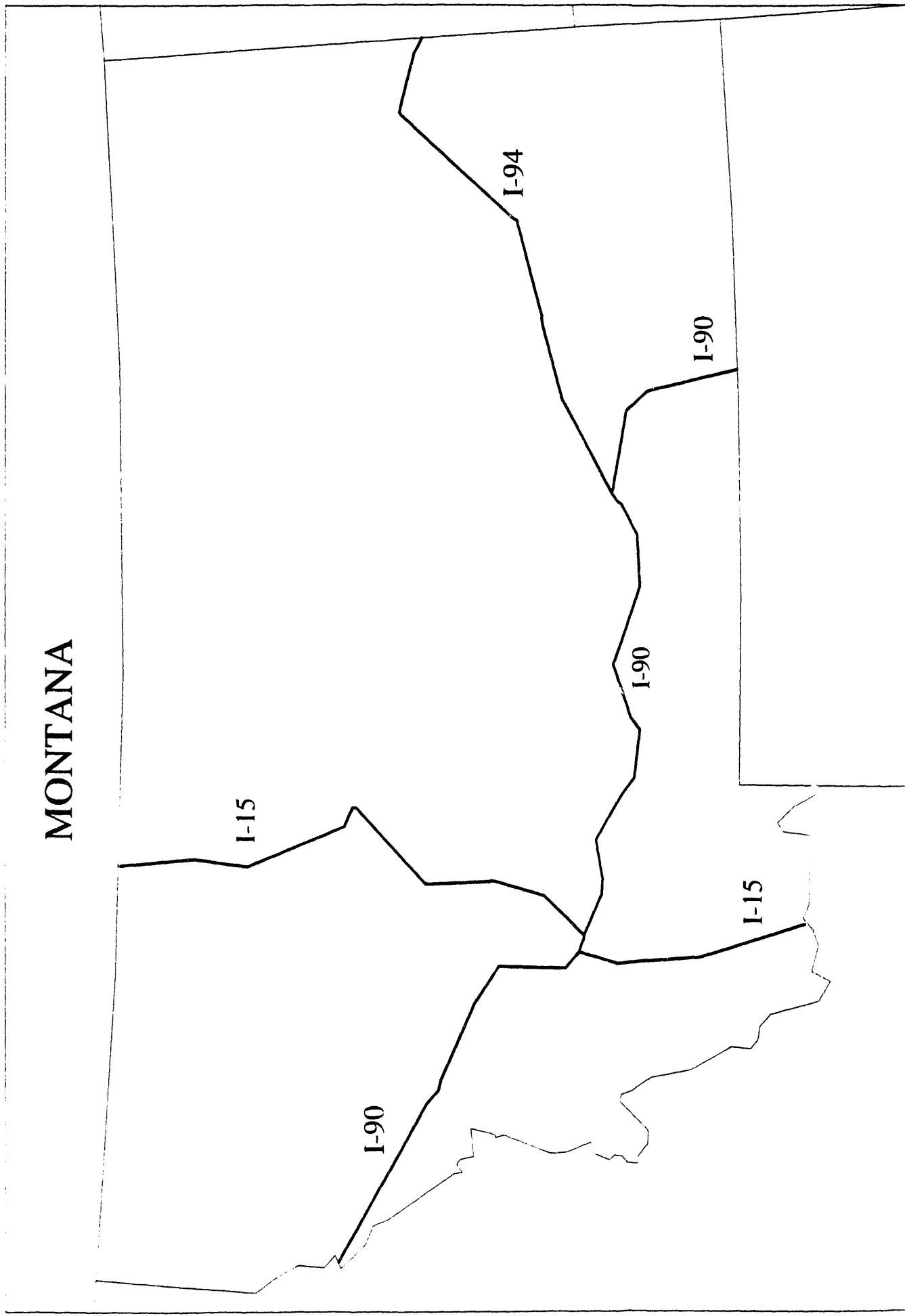
Preferred Routes in Montana

- I-15
 - From the Idaho state line to junction with I-90 west of Butte
 - From the junction with I-90 east of Butte to the Canadian border
- I-15/I-90
 - From the I-15/I-90 junction west of Butte to the I-15/I-90 junction east of Butte
- I-90
 - From the Idaho state line to the junction with I-15 west of Butte
 - From the junction with I-15 east of Butte to the Wyoming state line
- I-94
 - From the North Dakota state line to I-90 near Billings

State Designated Preferred Routes

Montana has not designated any additional roads.

MONTANA



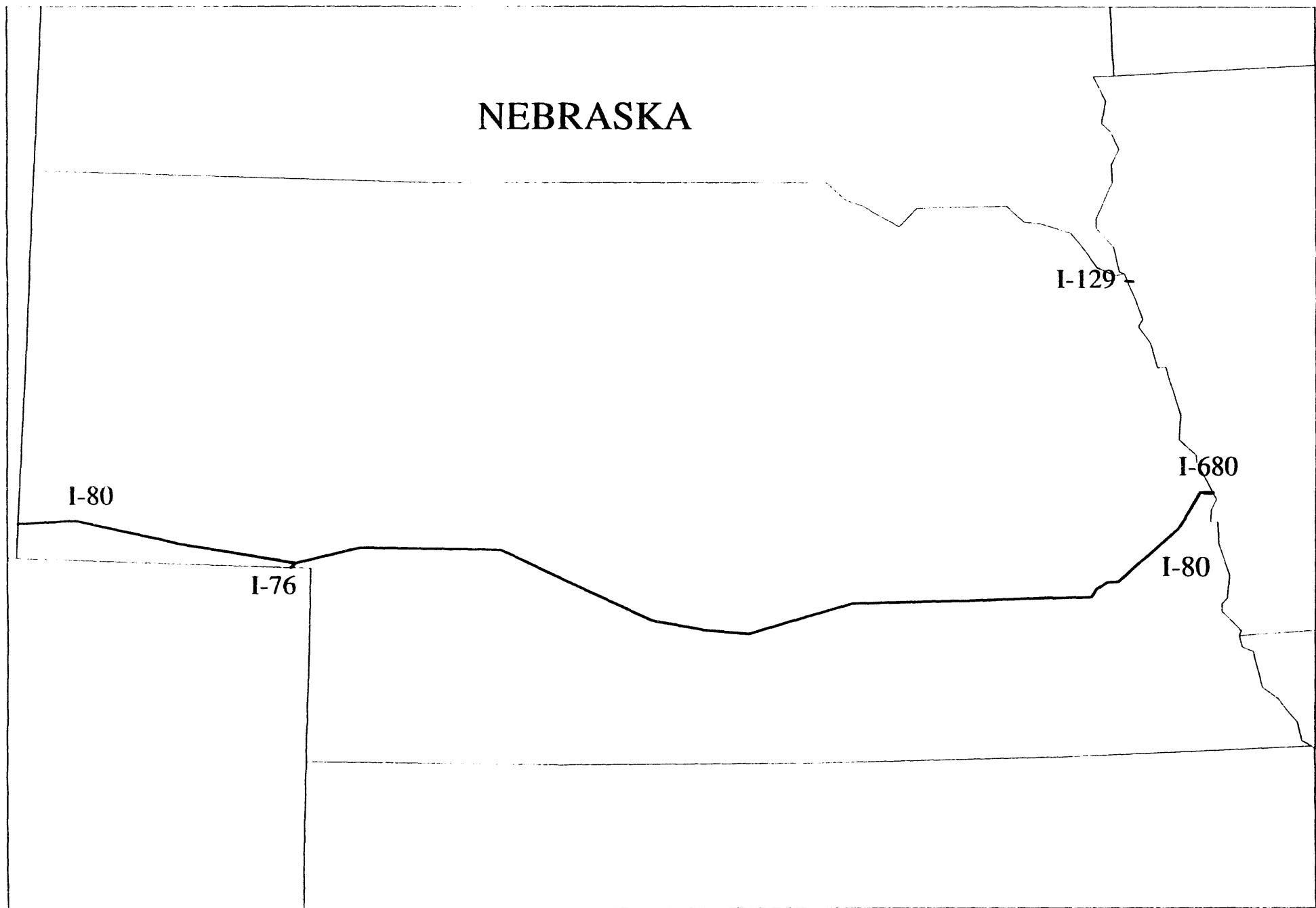
Preferred Routes in Nebraska

- I-129 • From the Iowa state line to the end of I-129 near Dakota City
- I-680 • From the Iowa state line to the junction with I-80 west of Omaha
- I-76 • From the Colorado state line to the junction with I-80
- I-80 • From the Wyoming state line to the junction with I-680 west of Omaha

State Designated Preferred Routes

Nebraska designated, on August 3, 1988, that I-680 be used in lieu of I80 in the Omaha area.

NEBRASKA



Preferred Routes in Nevada

- I-15 • From the Arizona state line to the California state line
- I-80 • From the California state line to the Utah state line

State Designated Preferred Routes

Nevada has not designated any additional roads.

NEVADA

I-80

I-15

4.27.1 - Nevada

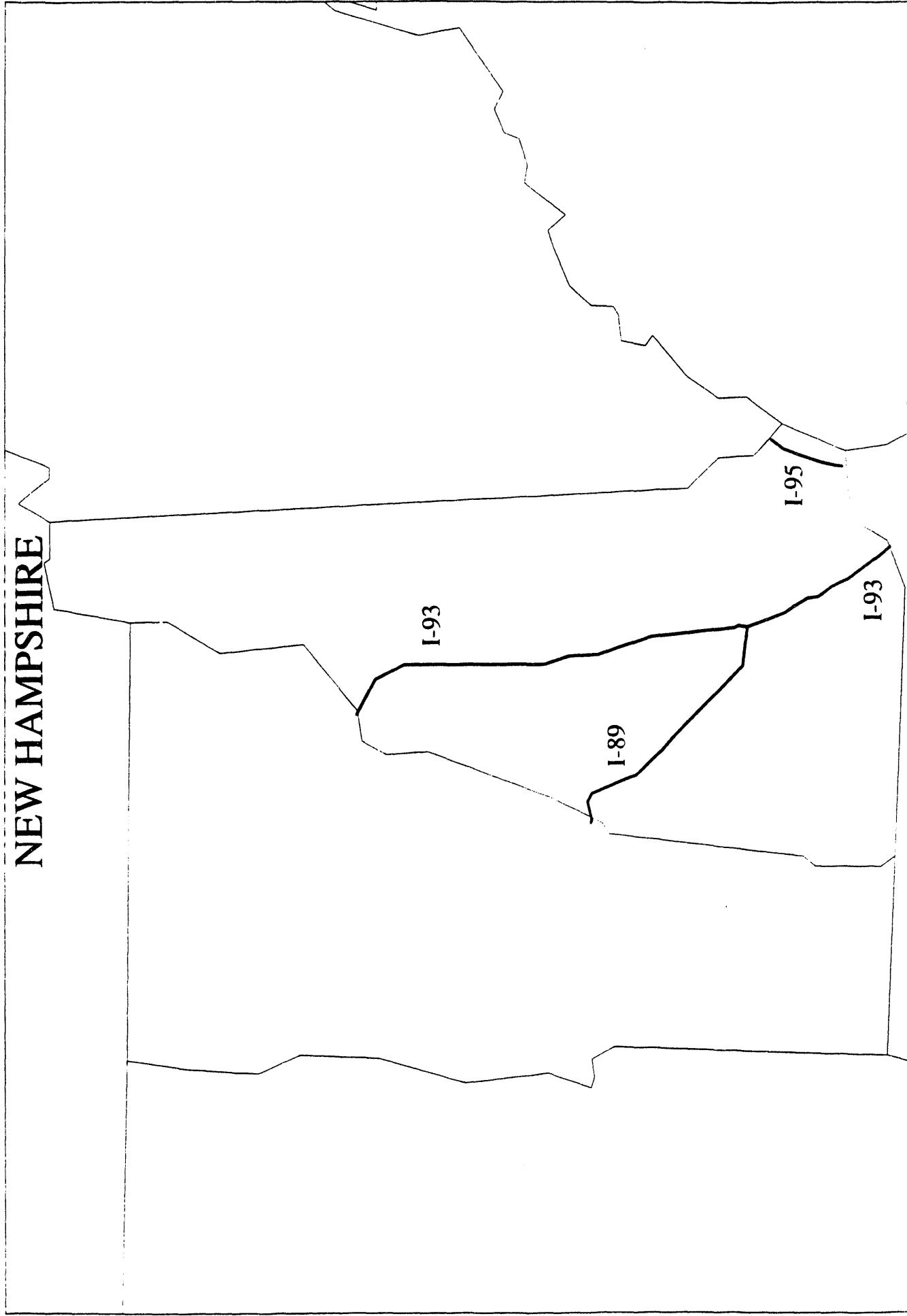
Preferred Routes in New Hampshire

- I-89 • From the junction with I-93 south of Concord to the Vermont state line
- I-93 • From Massachusetts state line to the Vermont state line
- I-95 • From the Massachusetts state line to the Maine state line

State Designated Preferred Routes

New Hampshire has not designated any additional roads.

NEW HAMPSHIRE



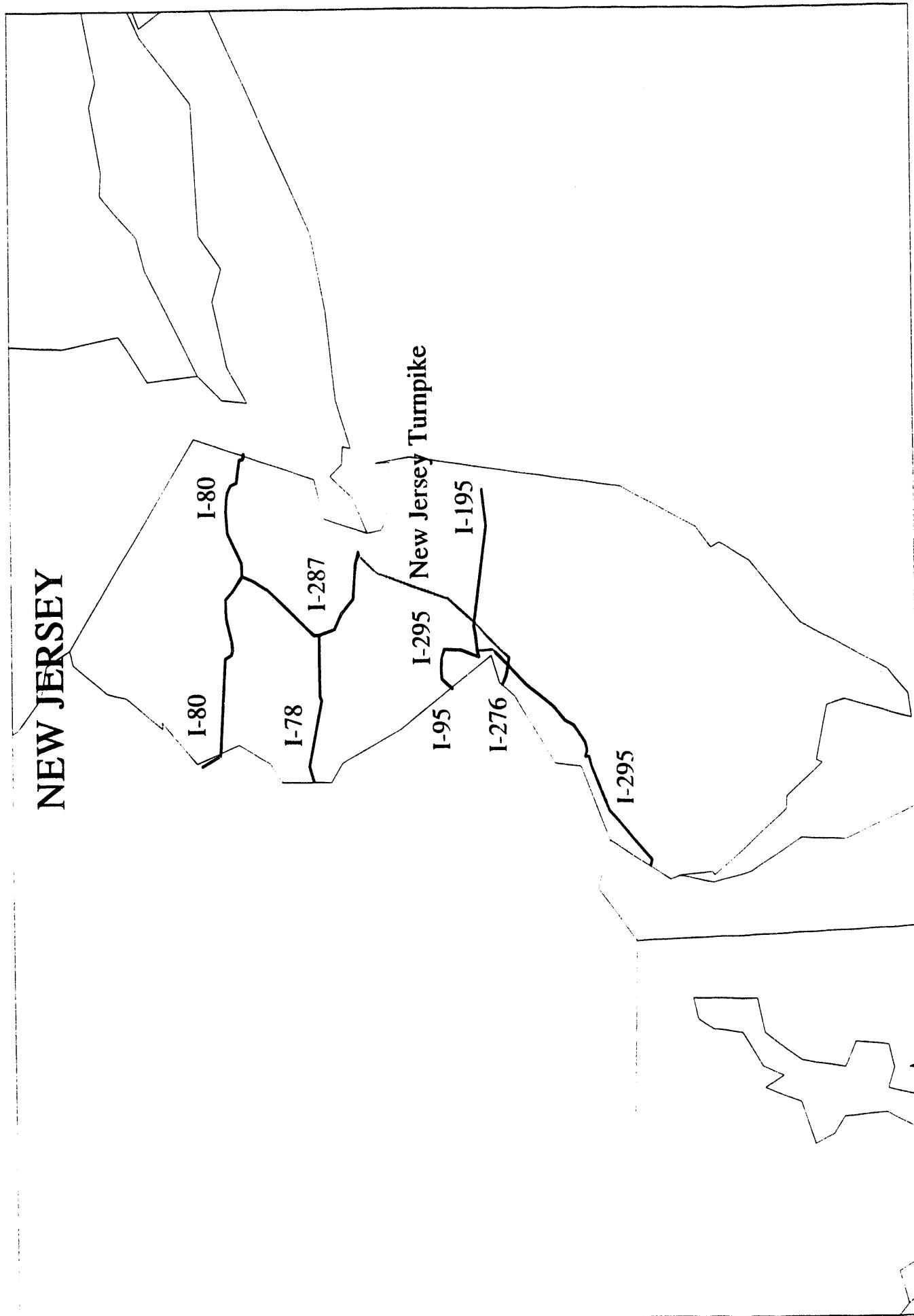
Preferred Routes in New Jersey

- I-195
 - From the junction with I-295 south of Trenton to the end of I-195 southwest of Neptune
- I-276
 - From the Pennsylvania state line to the junction with the New Jersey Turnpike
- I-295
 - From the Delaware state line to the junction with U.S. 130 south of Trenton
 - From the junction with I-195 south of Trenton to the junction with I-95 north of Trenton
 - U.S. 130 and U.S. 206 provide temporary connection for the portion of I-295 which is under construction south of Trenton
- I-287
 - From the junction with the New Jersey Turnpike west of Perth Amboy to the junction with I-80 near Parsippany
- I-78
 - From the Pennsylvania state line to the junction with I-287
- I-80
 - From the Pennsylvania state line to the New York state line
- I-95
 - From the Pennsylvania state line to the junction with I-295 north of Trenton

The New Jersey Turnpike between I-287 and I-276 serves as a temporary connection for the uncompleted portion of I-95 between Trenton and New Brunswick.

State Designated Preferred Routes

New Jersey has not designated any additional roads.



Preferred Routes in New Mexico

- I-10 • From the Arizona state line to the Texas state line
- I-25 • From the junction with I-10 in Las Cruces to the Colorado state line
- I-40 • From the Arizona state line to the Texas state line

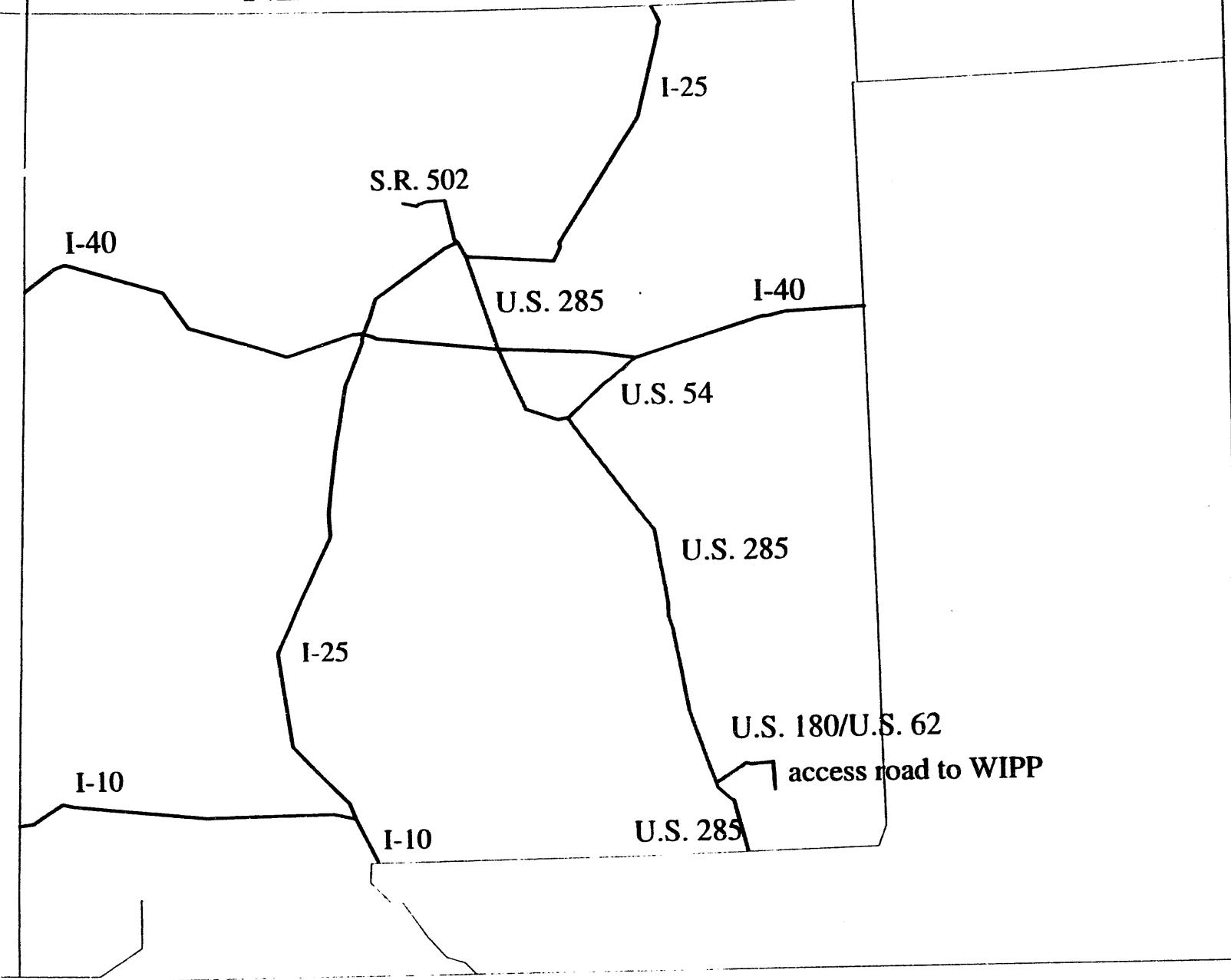
State Designated Preferred Routes

New Mexico has designated the following roads for shipment to the Waste Isolation Pilot Plant (WIPP). These roads can not be used by other HRCQ shipments.

- U.S. 180/62 • From the junction with U.S. 285 to the WIPP access road
- U.S. 285 • From the junction with I-25 southeast of Santa Fe to the Texas state line
- U.S. 285/84 • From the junction with S.R. 502 to the junction with I-25 south of Santa Fe
- U.S. 54 • From the junction with I-40 near Santa Rosa to U.S. 285 near Vaughn
- S.R. 4 • From S.R. 502 to Los Alamos Truck Route
- S.R. 502 • From S.R. 4 to U.S. 285/84

Los Alamos Truck Route • From Los Alamos to S.R. 4

NEW MEXICO



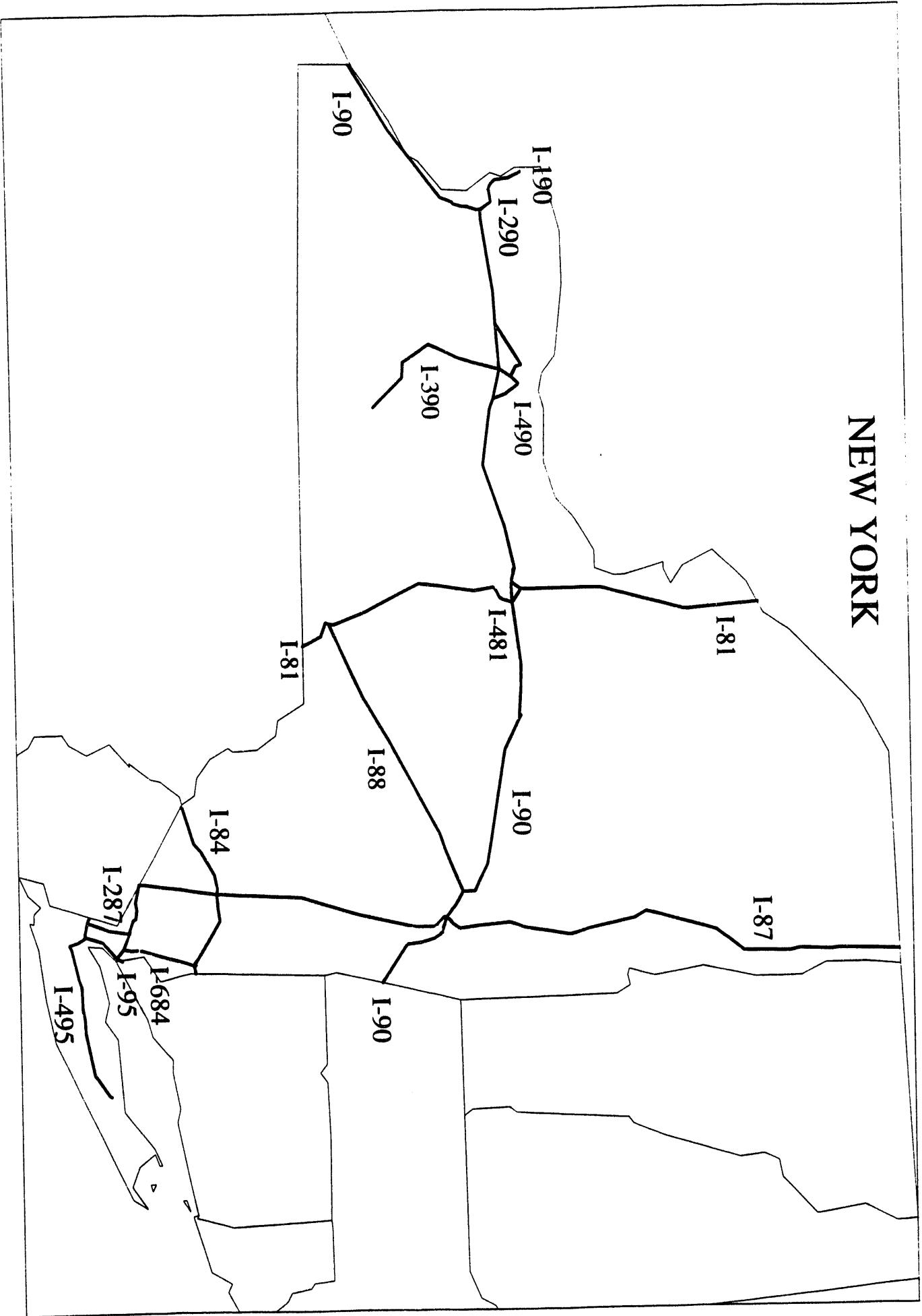
Preferred Routes in New York

- I-190 • From the junction with I-290 northwest of Buffalo to the end of I-190 north of Niagara Falls
- I-287 • From the junction with I-87 west of White Plains to the junction with I-95 near Port Chester
- I-287/I-87 • From the junction with I-87 near Suffern to the junction with I-87 west of White Plains
- I-290 • From the junction with I-90 northeast of Buffalo to the junction with I-190 north of Buffalo
- I-295 • From the junction with I-95 in Bronx to the junction with I-495 in Queens
- I-390 • From the junction with I-490 west of Rochester to the end of I-390 northwest of Bath
- I-481 • From the junction with I-81 south of Syracuse to the junction with I-81 north of Syracuse
- I-490 • From the junction with I-90 southwest of Rochester to the junction with I-390 west of Rochester
 • From the junction with I-590 east of Rochester to the junction with I-90 southeast of Rochester
- I-495 • From the junction with I-295 in Queens to the end of I-495 near Calverton
- I-590 • From the junction with I-390 south of Rochester to the junction with I-490 east of Rochester
- I-684 • From the junction with I-287 in White Plains to the Connecticut state line
 • From the Connecticut state line to the junction with I-684 near Brewster
- I-81 • From the Pennsylvania state line to the junction with I-481 south of Syracuse
 • From the junction with I-90 north of Syracuse to the Canadian border
- I-84 • From the Pennsylvania state line to the Connecticut state line
- I-87 • From the junction with I-95 in Bronx to the junction with I-287 west of White Plains
 • From the junction with I-287 near Suffern to the Canadian border
- I-88 • From the junction with I-81 north of Binghamton to the junction with I-90 west of Schenectady
- I-90 • From the Pennsylvania state line to the Massachusetts state line
- I-95 • From the New Jersey state line to the Connecticut state line

State Designated Preferred Routes

New York has not designated any additional roads.

NEW YORK



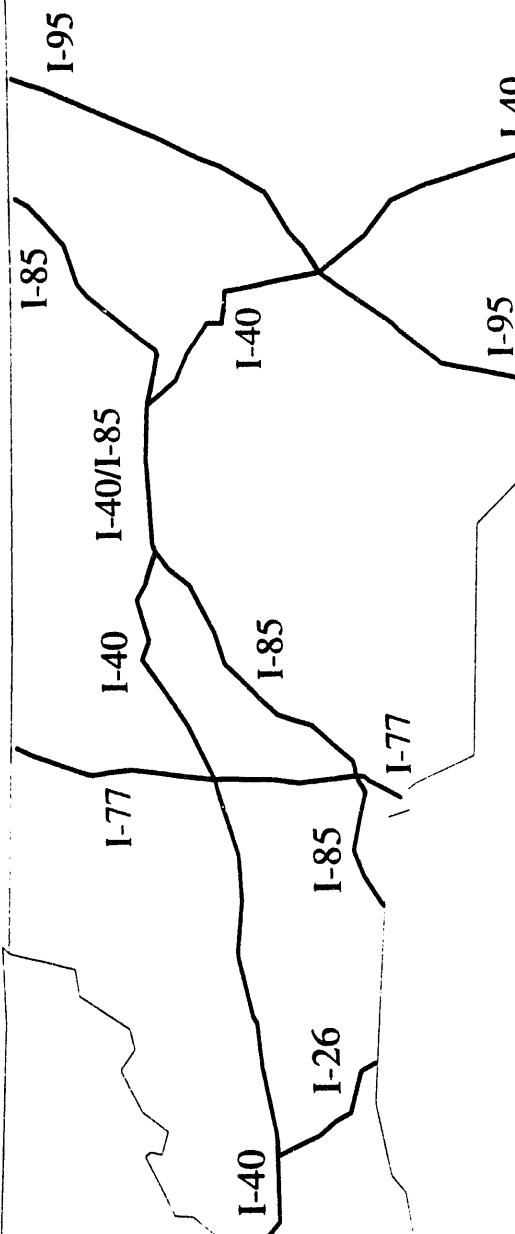
Preferred Routes in North Carolina

- I-26 • From the South Carolina state line to the junction with I-40 southwest of Asheville
- I-40 • From the Tennessee state line to the junction with I-85 west of Winston-Salem
 - From the junction with I-85 west of Durham to the end of I-40 northeast of Wilmington
- I-40/I-85 • From the junction with I-40 and I-85 west of Winston-Salem to the junction with I-40 and I-85 west of Durham
- I-77 • From the South Carolina state line to the Virginia state line
- I-85 • From the South Carolina state line to the junction with I-40 west of Winston-Salem
 - From the junction with I-85 west of Durham to the Virginia state line
- I-95 • From the South Carolina state line to the Virginia state line

State Designated Preferred Routes

North Carolina has not designated any additional roads.

NORTH CAROLINA



Preferred Routes in North Dakota

- I-29
 - From the South Dakota state line to the Canadian border
- I-94
 - From the Minnesota state line to the Montana state line

State Designated Preferred Routes

North Dakota has not designated any additional roads.

NORTH DAKOTA

I-94

I-94

I-29

I-29

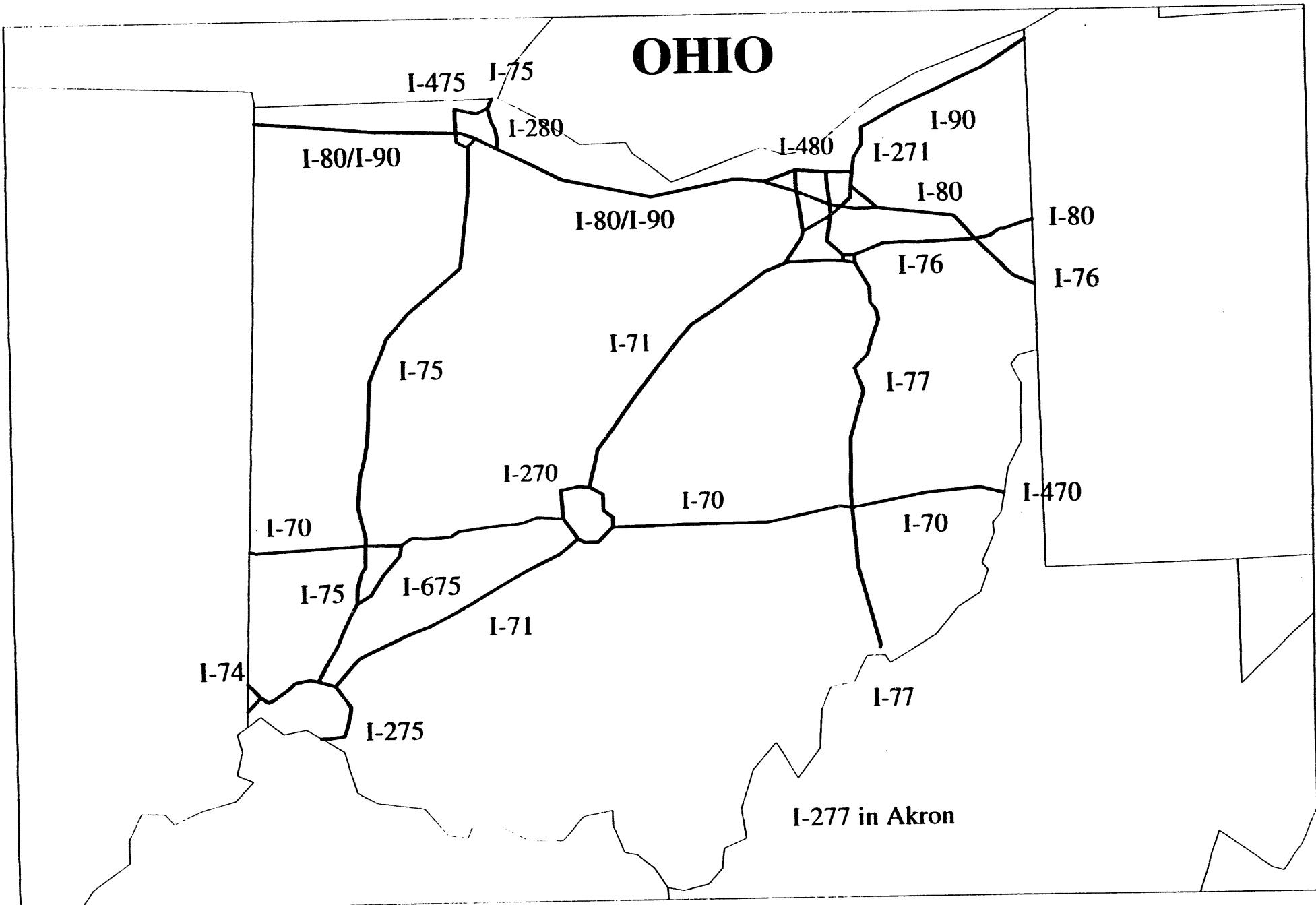
Preferred Routes in Ohio

- I-270
 - Entire route around Columbus
- I-271
 - From I-71 south of Cleveland metro area to I-90 northeast of Cleveland
- I-275
 - From the Indiana state line to the Kentucky state line around the Cincinnati area
- I-277
 - From I-76 to I-77 in Akron
- I-280
 - From I-80/I-90 to I-75 east of Toledo
- I-470
 - From I-70 to the West Virginia state line
- I-475
 - From I-75 near Perrysburg to I-75 in Toledo
- I-480
 - From I-80 southwest of the Cleveland metro area to I-80 southeast of Cleveland
- I-675
 - From I-75 south of Dayton to I-70 near Fairborn
- I-70
 - From the Indiana state line to I-270 west of Columbus
 - From I-270 east of Columbus to I-470 west of Bellaire
- I-71
 - From I-275 northeast of Cincinnati to I-270 south of Columbus
 - From I-270 north of Columbus to I-480 southwest of Cleveland
- I-74
 - From the Indiana state line to I-275 northwest of Cincinnati
- I-75
 - From I-270 north of Cincinnati to I-80/I-90 near Toledo
 - From I-475 north of Toledo to the Michigan state line
- I-76
 - From I-71 west of Akron to the Pennsylvania state line
- I-77
 - From I-71 the West Virginia state line to I-480 south of Cleveland
- I-80
 - From junction with I-90 west of Cleveland to the Pennsylvania state line
- I-80/I-90
 - From the Indiana state line to junction of I-80 and I-90 west of Cleveland
- I-90
 - From I-271 northeast of Cleveland to the Pennsylvania state line

State Designated Preferred Routes

Ohio has not designated any additional roads.

OHIO

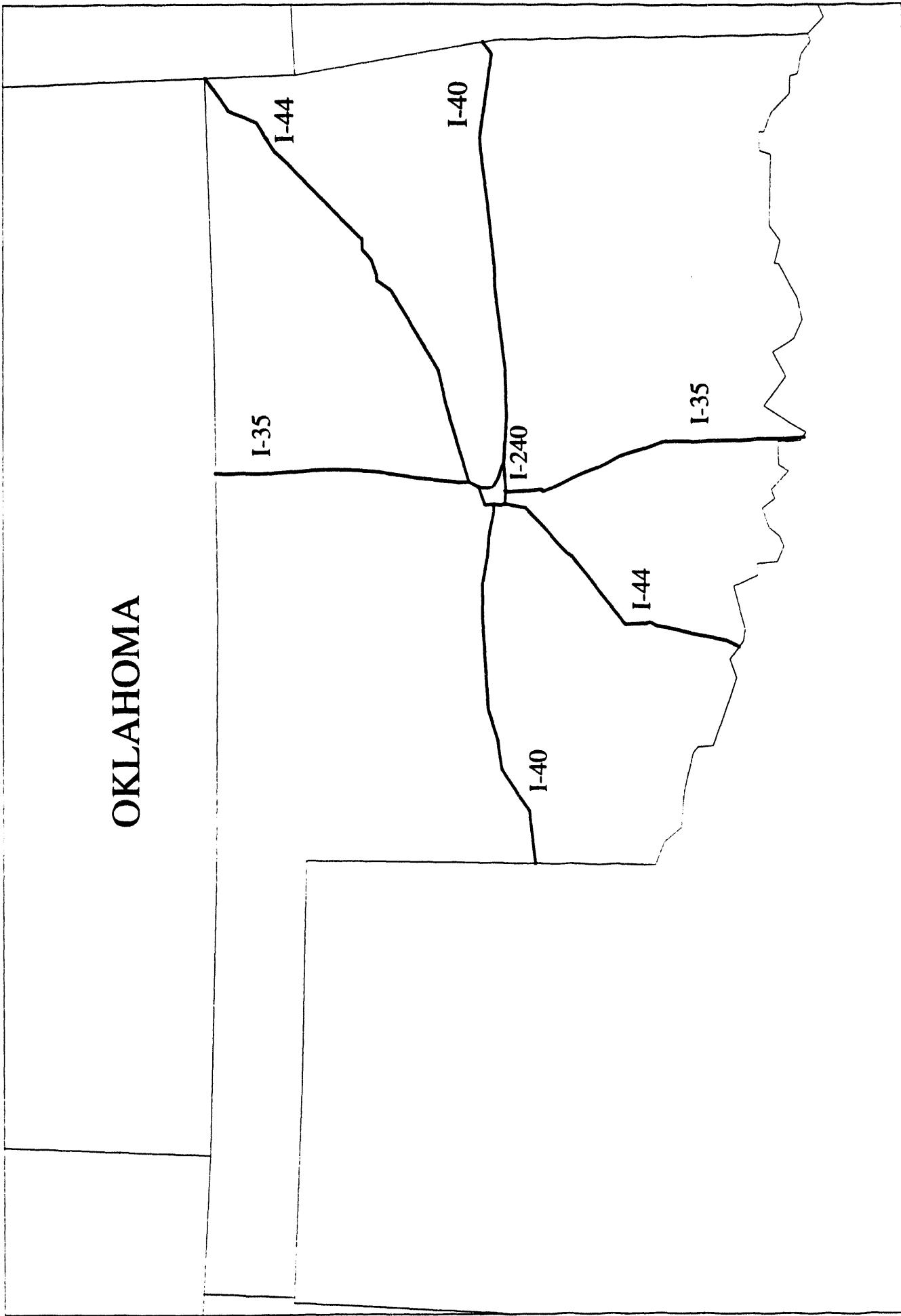


Preferred Routes in Oklahoma

- I-240
 - From I-40 southeast of the Oklahoma City metro area to I-44 southwest of Oklahoma City
- I-35
 - From the Texas state line to the junction with I-240 south of Oklahoma City
 - From the junction with I-40 east of Oklahoma City to the junction with I-44 northeast of Oklahoma City
 - From the junction with I-44 southeast of Edmond to the Kansas state line
- I-35/I-44
 - From northeast of Oklahoma City to southeast of Edmond
- I-40
 - From the Texas state line to I-44 west of Oklahoma City
 - From the junction of I-35 east of Oklahoma City to the Arkansas state line
- I-44
 - From the Texas state line to the junction with I-35 northeast of Oklahoma City
 - From the junction with I-35 southeast of Edmond to the Missouri state line

State Designated Preferred Routes

Oklahoma has not designated any additional roads.



OKLAHOMA

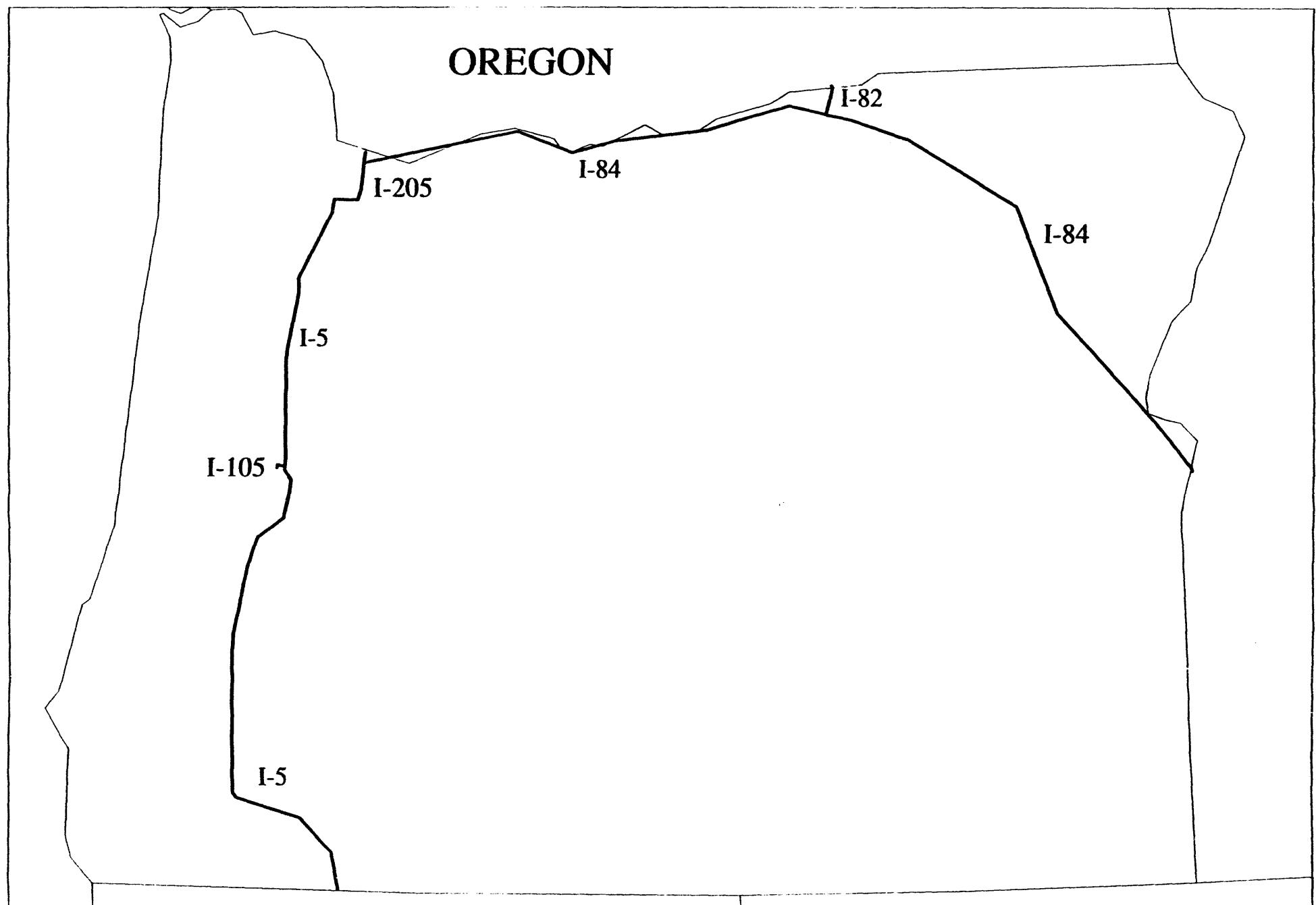
Preferred Routes in Oregon

- I-105 • From I-5 to Eugene
- I-205 • From the Washington state line to I-5 south of Portland
- I-5 • From the junction with I-205 south of Portland to the California state line
- I-82 • From Washington state line to I-84
- I-84 • From I-205 to Idaho state line

State Designated Preferred Routes

Oregon has not designated any additional roads.

OREGON



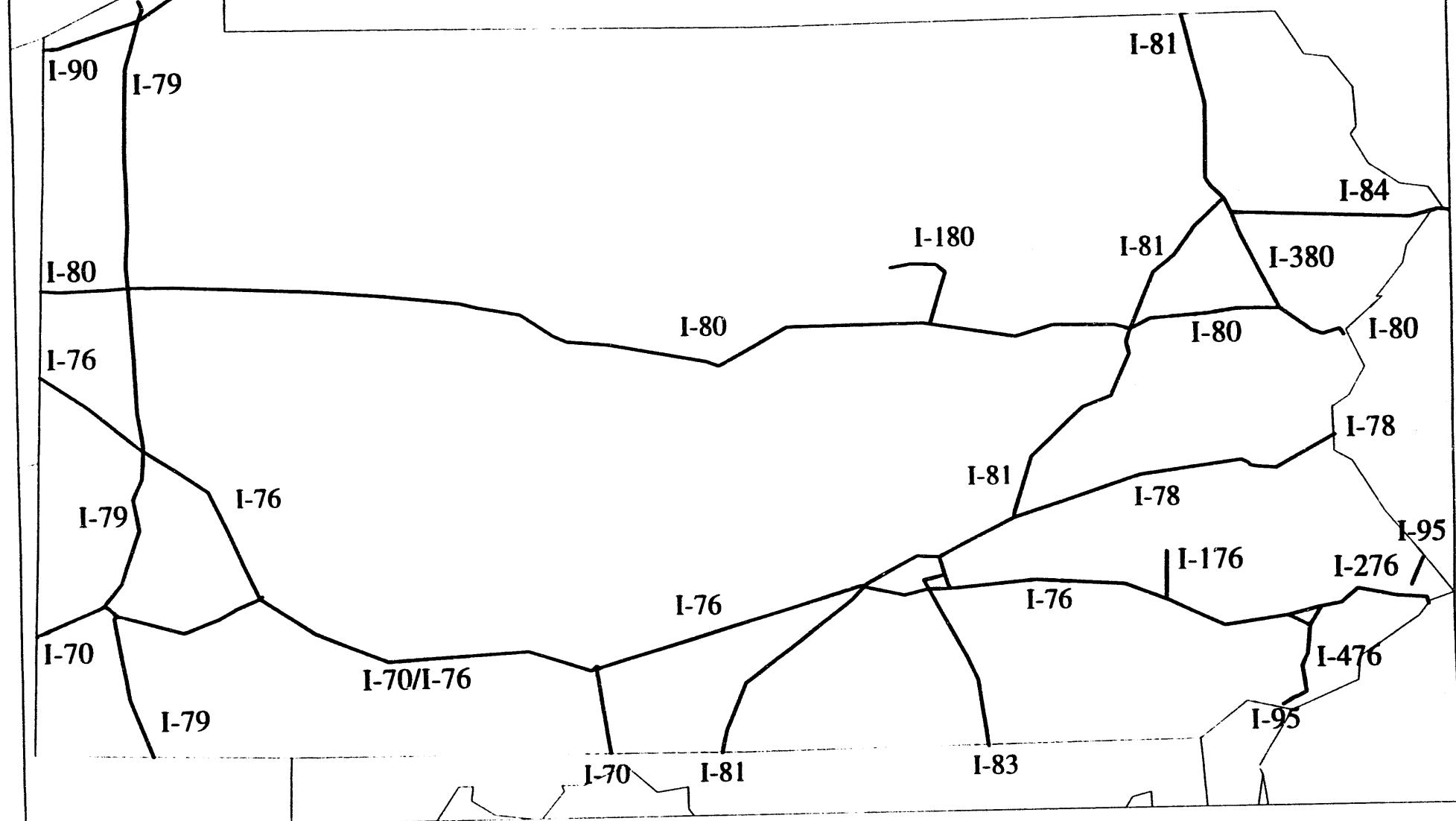
Preferred Routes in Pennsylvania

- I-176 • From I-76 to the end of I-176 southeast of Reading
- I-180 • From I-80 north of Milton to Williamsport
- I-276 • From the junction of I-76 near King of Prussia to the New Jersey state line
- I-283 • From the junction of I-76 southeast of Harrisburg to the junction of I-83 east of Harrisburg
- I-380 • From the junction with I-84 southeast of Scranton to the junction with I-80
- I-380/I-84 • From the junction with I-81 near Dunmore to the split of these roads southeast of Scranton
- I-476 • From the junction of I-95 near Chester to the junction of I-276 east of Norristown
- I-70 • From the West Virginia state line to the junction with I-79 north of Washington
 - From the junction with I-79 east of Washington to the junction with I-76 southwest of Greenburg
 - From the junction with I-76 at Breezewood to the Maryland state line
- I-70/I-76 • From the junction of these roads southwest of Greenburg to Breezewood
- I-70/I-79 • From the junction of these roads north of Washington to east of Washington
- I-76 • From the Ohio state line to the junction of I-70 southwest of Greenburg
 - From the junction of I-70 at Breezewood to the junction of I-476 southwest of Conshohocken
- I-78 • From the junction of I-81 northwest of Lebanon to New Jersey state line
- I-79 • From the West Virginia state line to the junction with I-70 east of Washington
 - From the junction with I-70 north of Washington to Erie
- I-80 • From the Ohio state line to New Jersey state line
- I-81 • From the Maryland state line to New York state line
- I-83 • From the Maryland state line to the junction with I-81 northeast of Harrisburg
- I-84 • From the junction with I-380 southeast of Scranton to New York state line
- I-90 • From the Ohio state line to New York state line
- I-95 • From the Delaware state line to the junction of I-476 near Chester
 - From the junction of U.S. 1 west of Morrisville to the New Jersey state line (note: there is no connection between I-276 and I-95 and U.S. 1 has not been designated as a preferred route)

State Designated Preferred Routes

Pennsylvania has not designated any additional roads.

PENNSYLVANIA



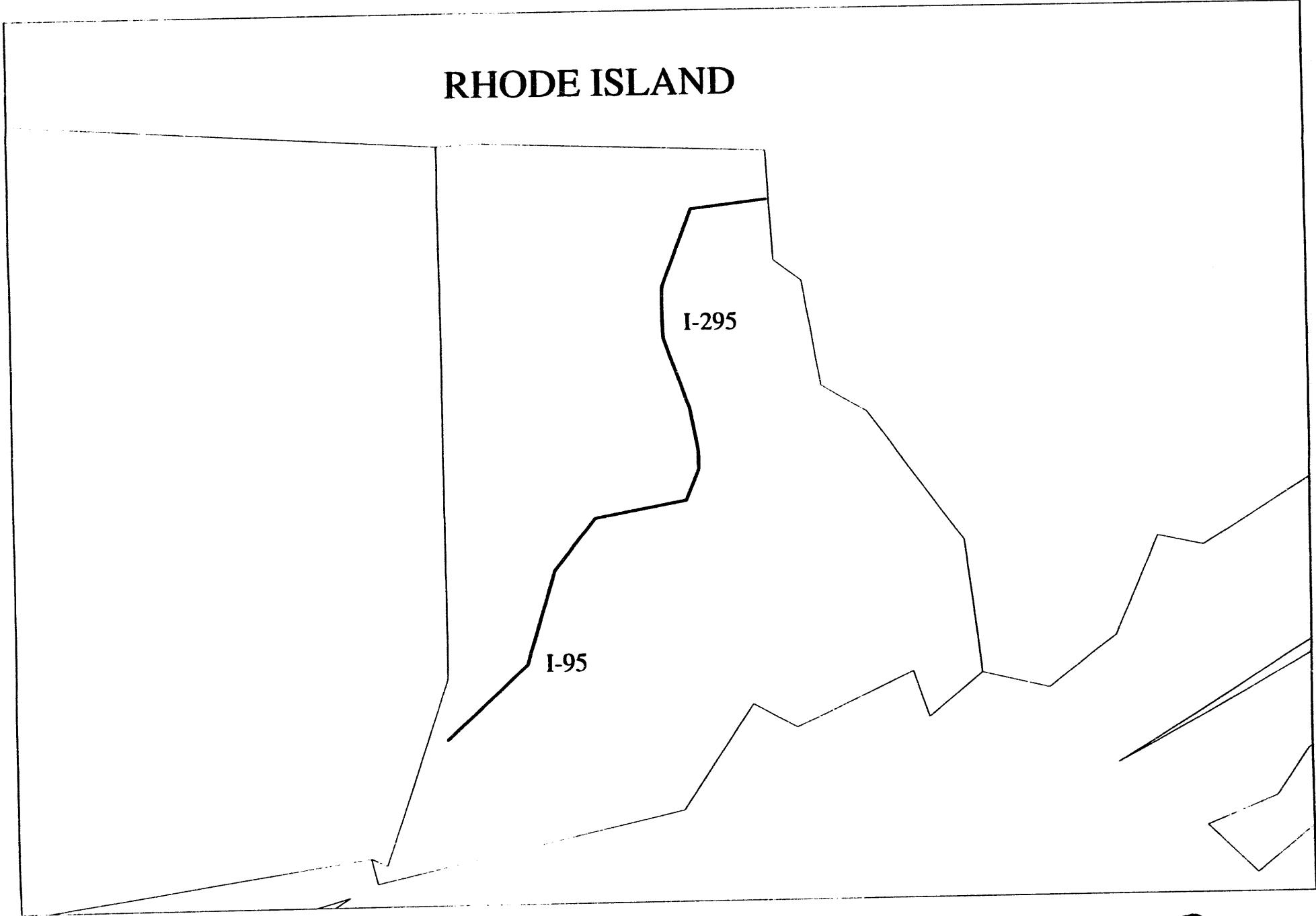
Preferred Routes in Rhode Island

- I-295 • From the junction with I-95 southwest of Providence to the Massachusetts state line
- I-95 • From the Connecticut state line to the junction with I-295 southwest of Providence

State Designated Preferred Routes

Rhode Island has not designated any additional roads.

RHODE ISLAND



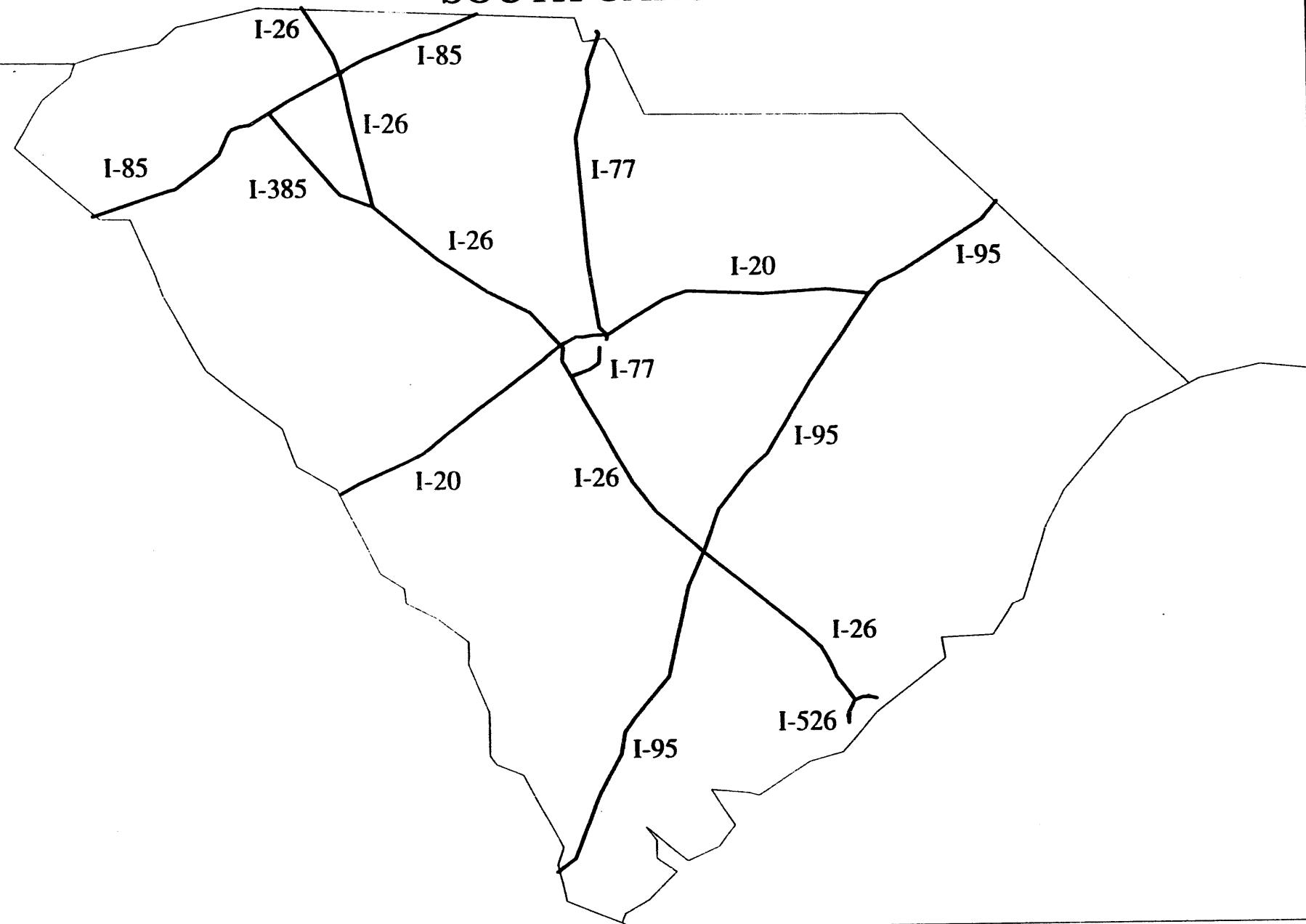
Preferred Routes in South Carolina

- I-20 • From the Georgia state line to the junction with I-95 west of Florence
- I-26 • From the junction with I-526 north of Charleston to the North Carolina state line
- I-385 • From the junction with I-26 near Clinton to the junction with I-85 east of Greenville
- I-77 • From the junction with I-26 south of Columbia to the junction with State Route 12 east of Columbia
• From Exit 15 northeast of Columbia to the North Carolina state line
- I-85 • From the Georgia state line to the North Carolina state line
- I-95 • From the Georgia state line to the North Carolina state line

State Designated Preferred Routes

South Carolina has not designated any additional roads.

SOUTH CAROLINA



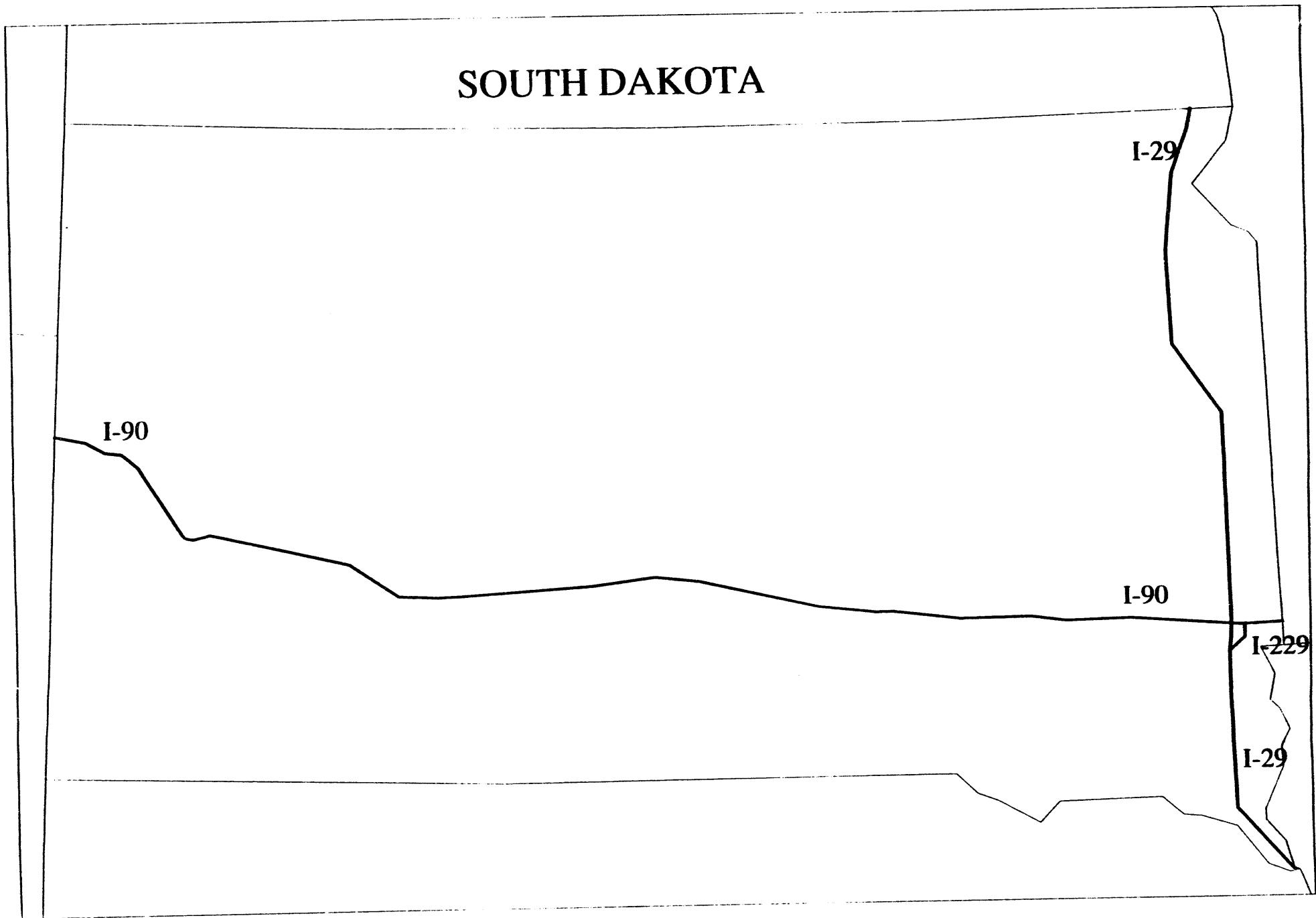
Preferred Routes in South Dakota

- I-229 • From I-29 to I-90
- I-29 • From Nebraska state line to the North Dakota state line
- I-90 • From the Minnesota state line to the Wyoming state line

State Designated Preferred Routes

South Dakota has not designated any additional roads.

SOUTH DAKOTA



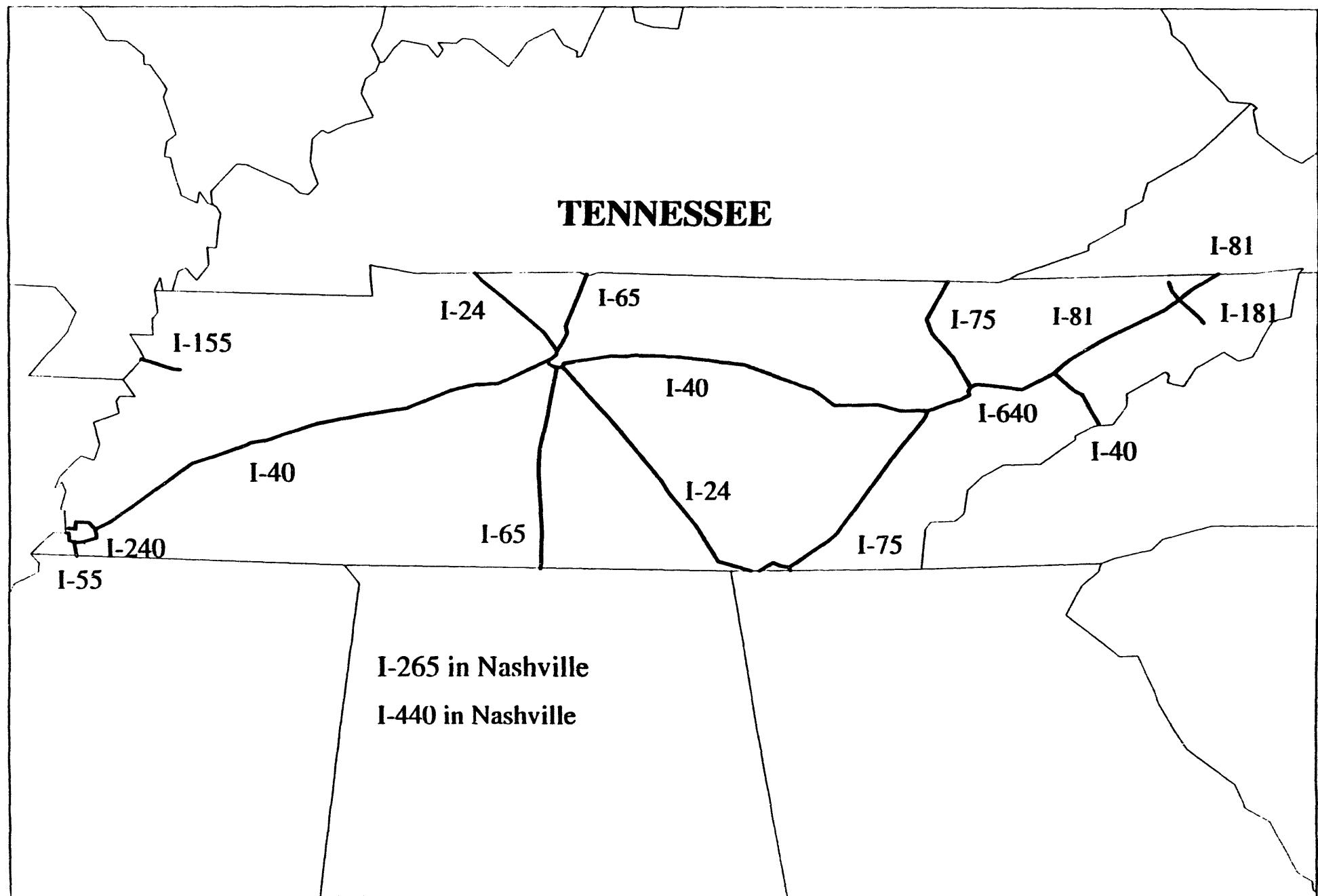
Preferred Routes in Tennessee

- I-155
 - From the Missouri state line to Dyersburg
- I-181
 - From Kingsport to Johnson City
- I-24
 - From the Kentucky state line to I-65 north of Nashville
 - From I-40 in southeastern Nashville to the Georgia state line
 - From the Georgia state line to I-75 east of Chattanooga
- I-24/I-65
 - From junction of I-24 and I-65 north of Nashville to I-265 in Nashville
- I-240
 - From I-40 east of Memphis to I-55 south of Memphis
- I-265
 - From I-40 to I-65 in Nashville
- I-40
 - From the Arkansas state line to I-265 in Nashville
 - From I-24 in southeastern Nashville to I-75 west of Knoxville
 - From I-640 northeast of Knoxville to the North Carolina state line
- I-40/I-75
 - From junction of I-40 and I-75 west of Knoxville to I-640 in Knoxville
- I-440
 - From I-40 to I-24 in Nashville
- I-55
 - From the Arkansas state line to the Mississippi state line
- I-640
 - From I-40/I-75 in Knoxville to I-40 northeast of Knoxville
- I-65
 - From the Alabama state line to I-440 in Nashville
 - From I-24 north of Nashville to the Kentucky state line
- I-75
 - From the Georgia state line to I-40 west of Knoxville
 - From I-640 in Knoxville to the Kentucky state line
- I-81
 - From the Virginia state line to I-40 near Dandridge

State Designated Preferred Routes

Tennessee has designated I-640 as a preferred route in lieu of I-40 in the Knoxville area. Per 49 CFR 177.825(b), I-640 should be used instead of I-40 because I-640 is an Interstate System bypass around Knoxville.

TENNESSEE

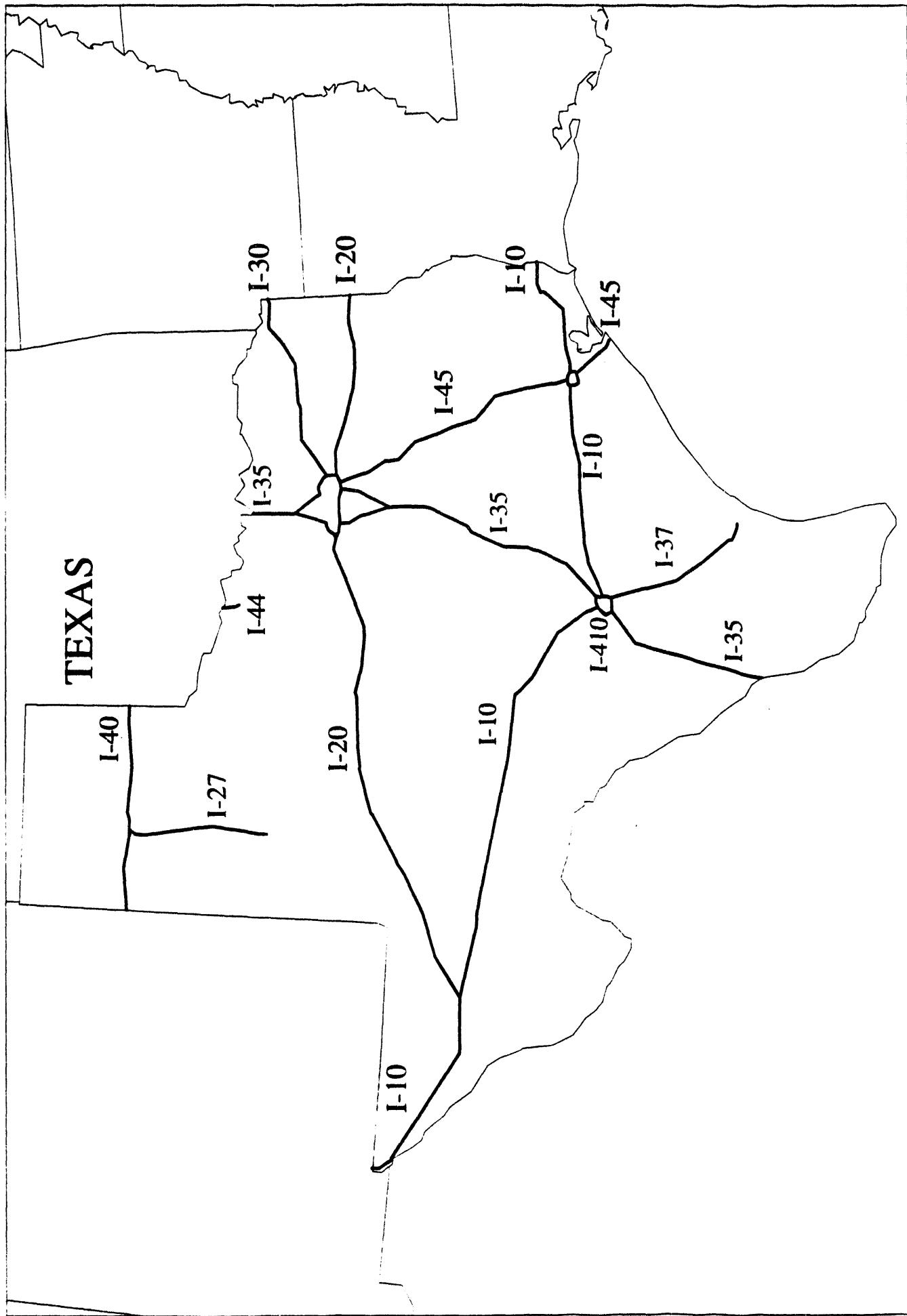


Preferred Routes in Texas

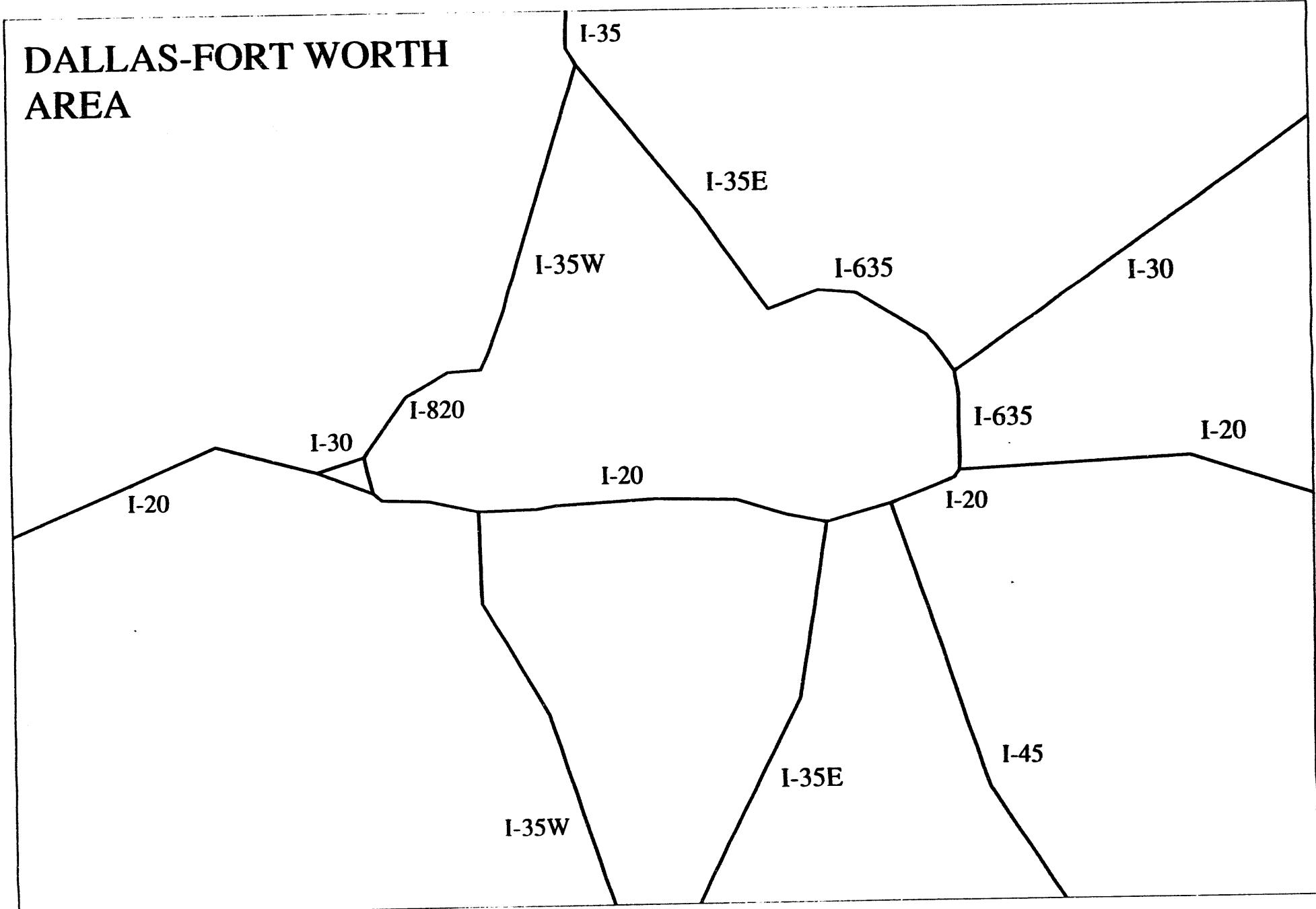
- I-10
 - From the New Mexico state line to junction with I-410 northwest of San Antonio
 - From the junction with I-410 east of San Antonio to the junction with I-610 west of Houston
 - From the junction with I-610 east of Houston to the Louisiana state line
- I-20
 - From the junction with I-10 in west Texas to the Louisiana state line
- I-27
 - From the junction with I-40 in Amarillo to Lubbock
- I-30
 - From the junction with I-20 west of Fort Worth to the junction with I-820 west of Fort Worth
 - From the junction with I-635 northeast of Dallas to the Arkansas state line
- I-35
 - From Laredo to the junction with I-410 southwest of San Antonio
 - From the junction with I-410 east of San Antonio to the junction with I-35E/I-35W near Hillsboro
 - From the junction with I-35E/I-35W near Denton to the Oklahoma state line
- I-35E
 - From the junction with I-35/I-35W near Hillsboro to the junction with I-20 south of Dallas
 - From the junction with I-635 northwest of Dallas to the junction with I-35/I-35W near Denton
- I-35W
 - From the junction with I-35/I-35E near Hillsboro to the junction with I-20 south of Fort Worth
 - From the junction with I-820 north of Fort Worth to the junction with I-35/I-35E near Denton
- I-37
 - From Corpus Christi to the junction with I-410 southeast of San Antonio
- I-40
 - From the New Mexico state line to the Oklahoma state line
- I-410
 - From the junction with I-35 east of San Antonio to the junction with I-35 northeast of San Antonio (around the San Antonio area)
- I-44
 - From the Oklahoma state line to Wichita Falls
- I-45
 - From Galveston to the junction with I-610 southeast of Houston
 - From the junction with I-610 north of Houston to the junction with I-20 southeast of Dallas
- I-610
 - Around the Houston area
- I-635
 - From the junction with I-20 southeast of Dallas to the junction with I-35E northwest of Dallas
- I-820
 - From the junction with I-20 southwest of Fort Worth to the junction with I-35W north of Fort Worth

State Designated Preferred Routes

Texas has not designated any additional roads.



DALLAS-FORT WORTH AREA



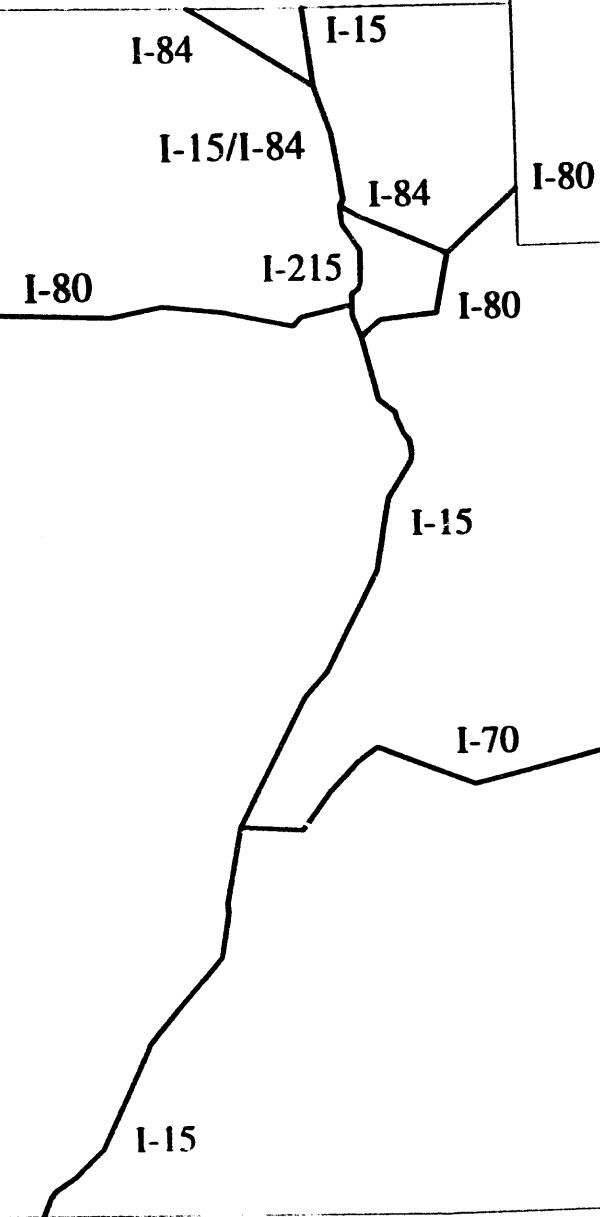
Preferred Routes in Utah

- I-15
 - From the Arizona state line to I-215 south of Salt Lake City
 - From I-215 north of Salt Lake City to the junction with I-84 near Ogden
 - From the junction with I-84 near Tremonton to the Idaho state line
- I-15/I-84 • From junction of I-15 and I-84 near Ogden to junction of I-15 and I-84 at Tremonton
- I-215
 - From junction of I-80 southeast of Salt Lake City to the junction with I-15 north of Salt Lake City
- I-70
 - From I-15 to the Colorado state line
- I-80
 - From the Nevada state line to I-215 west of Salt Lake City
 - From junction of I-215 southeastern of Salt Lake City to the Wyoming state line
- I-84
 - From the Idaho state line to I-15 near Tremonton
 - From junction with I-15 near Ogden to I-80

State Designated Preferred Routes

Utah has not designated any additional roads.

UTAH



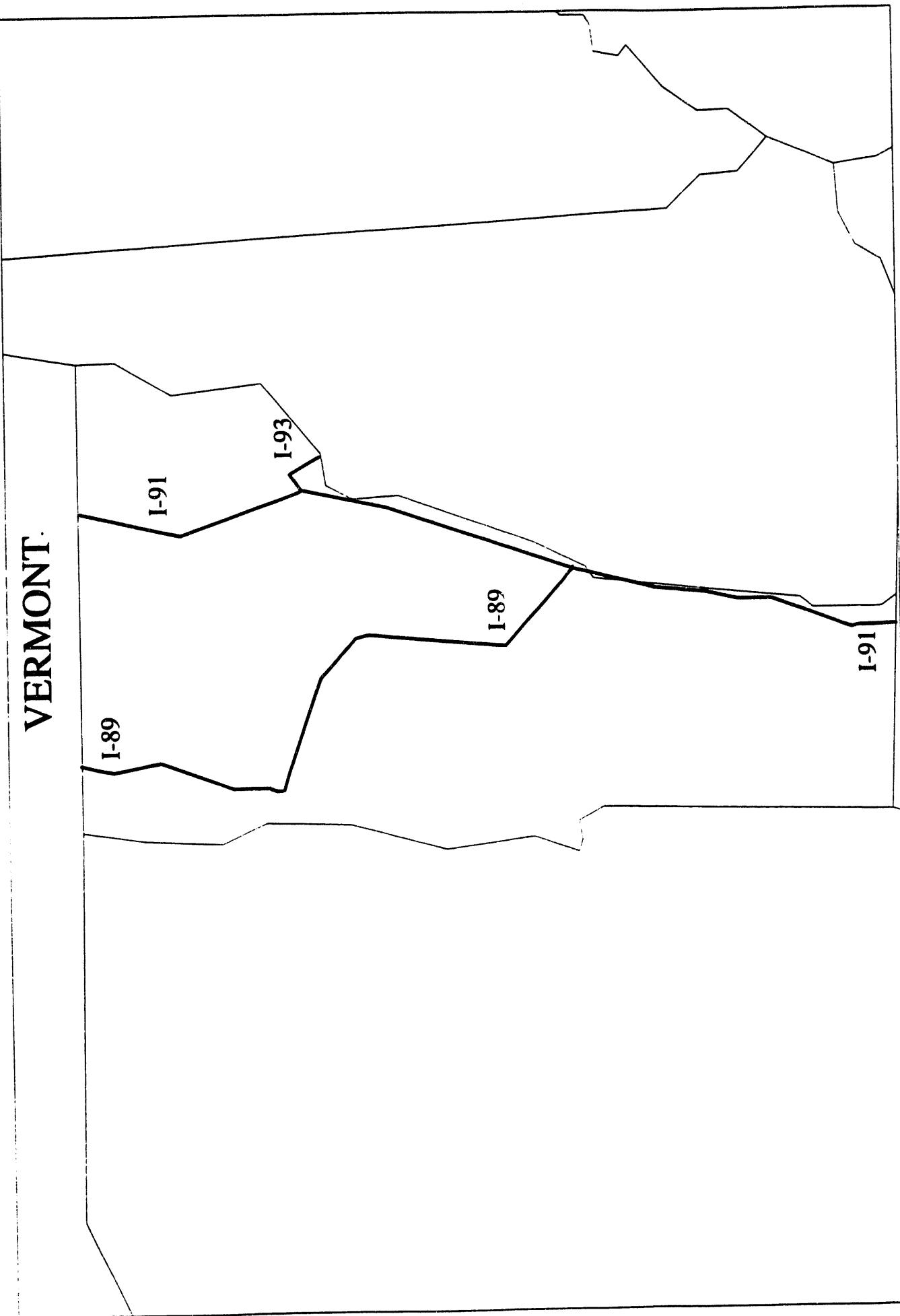
Preferred Routes in Vermont

- I-89 • From the New Hampshire state line to the Canadian border
- I-91 • From Massachusetts state line to the Canadian border
- I-93 • From the New Hampshire state line to the junction with I-91 near St. Johnsbury

State Designated Preferred Routes

Vermont has not designated any additional roads.

VERMONT.



Preferred Routes in Virginia

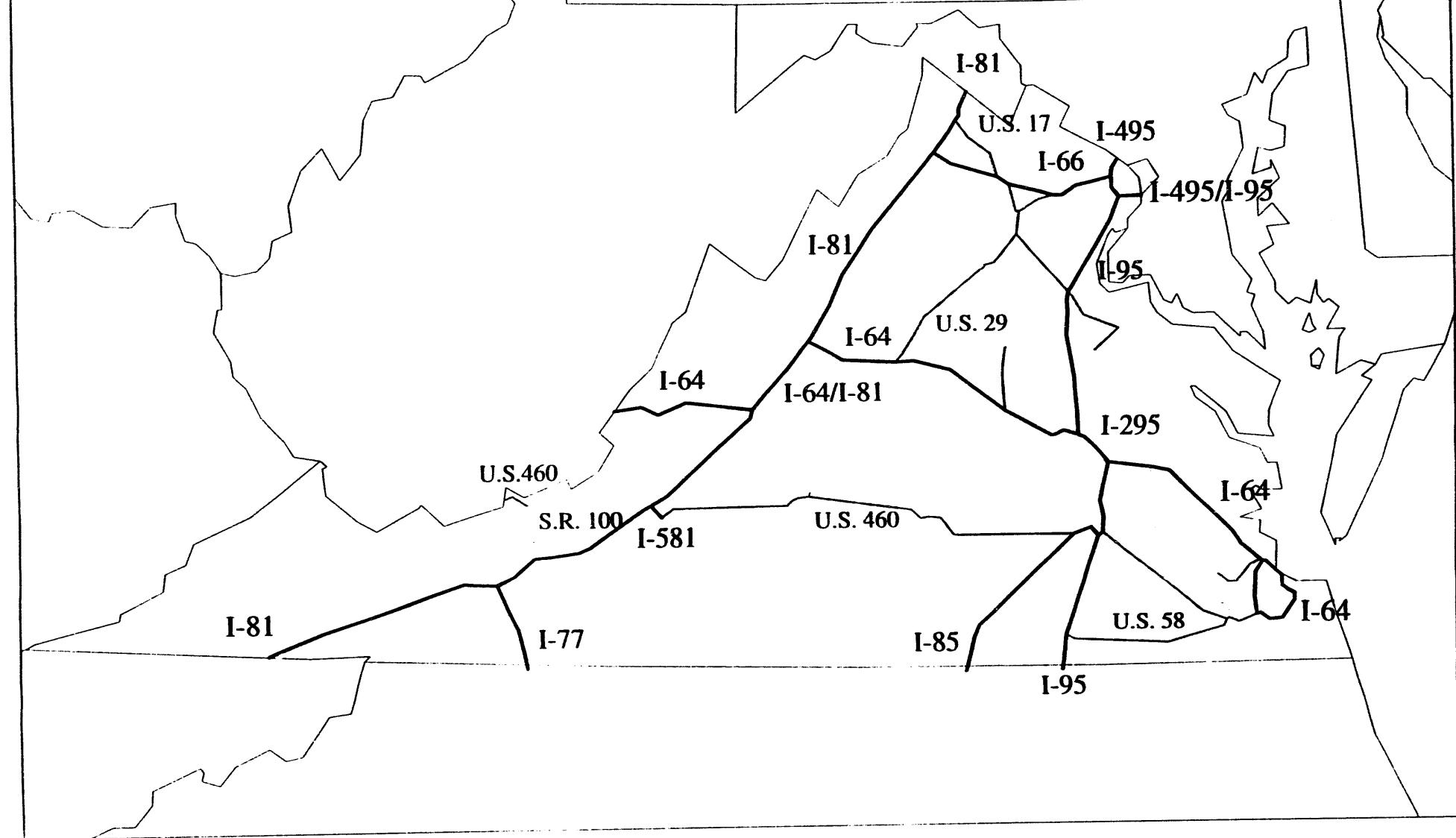
- I-295
 - From the junction with I-95 southeast of Petersburg to the junction with I-64 northwest of Richmond
- I-495
 - From the Maryland state line to the junction with I-95 in Springfield
- I-495/I-95
 - From the junction with I-95 in Springfield to the Maryland state line
- I-64
 - From the West Virginia state line to the junction with I-81 near Lexington
 - From the junction with I-81 near Staunton to the junction with I-295 northwest of Richmond
 - From the junction with I-295 east of Richmond to the junction with I-664 southwest of Portsmouth
- I-581
 - From the junction with I-81 north of Roanoke to the end of I-581 in Roanoke
- I-64/I-81
 - From the junction with I-64 and I-81 near Lexington to the junction with I-64 and I-81 near Staunton
- I-66
 - From the junction with I-81 near Strasburg to the junction with I-495 near Vienna
- I-664
 - From the junction with I-64 in Hampton to the junction with I-64 southwest of Portsmouth
- I-77
 - From North Carolina state line to the junction with I-81 southwest of Pulaski
- I-77/I-81
 - From the junction with I-77 near Wytheville to the junction with I-81 southwest of Pulaski
- I-81
 - From Tennessee state line to the junction with I-77 near Wytheville
 - From the junction with I-77 southwest of Pulaski to the junction with I-64 near Lexington
 - From the junction with I-64 near Staunton to the West Virginia state line
- I-85
 - From North Carolina state line to the junction with I-95 in Petersburg
 - From the North Carolina state line to the junction with I-85 in Petersburg
- I-95
 - From the junction with I-295 north of Richmond to the junction with I-495 in Springfield

State Designated Preferred Routes

Virginia has designated the following additional roads, effective March 1, 1993:

- S.R. 207
 - Between I-95 and U.S. 301
- U.S. 301
 - Between S.R. 207 and U.S. 17
- U.S. 29
 - Between I-66 and I-64
- U.S. 17
 - Between U.S. 301 and I-81
- S.R. 208
 - Between I-95 and U.S. 522
- U.S. 522
 - Between I-64 and S.R. 208
- S.R. 155
 - Between I-64 and S.R. 5
- S.R. 5
 - Between S.R. 155 and S.R. 156
- S.R. 156
 - Between S.R. 5 and S.R. 10
- S.R. 10
 - Between S.R. 156 and U.S. 58
- U.S. 460
 - Between I-295 and U.S. 58
- U.S. 58
 - Between I-664 and I-95
- U.S. 460
 - Between I-295 and U.S. 58
- U.S. 258
 - Between I-64 and S.R. 10
- U.S. 460
 - Between I-581 and I-85
- U.S. 460
 - Between the West Virginia state line and S.R. 100
- S.R. 100
 - Between I-81 and U.S. 460
- I-77
 - Banned between I-81 and the West Virginia state line

VIRGINIA



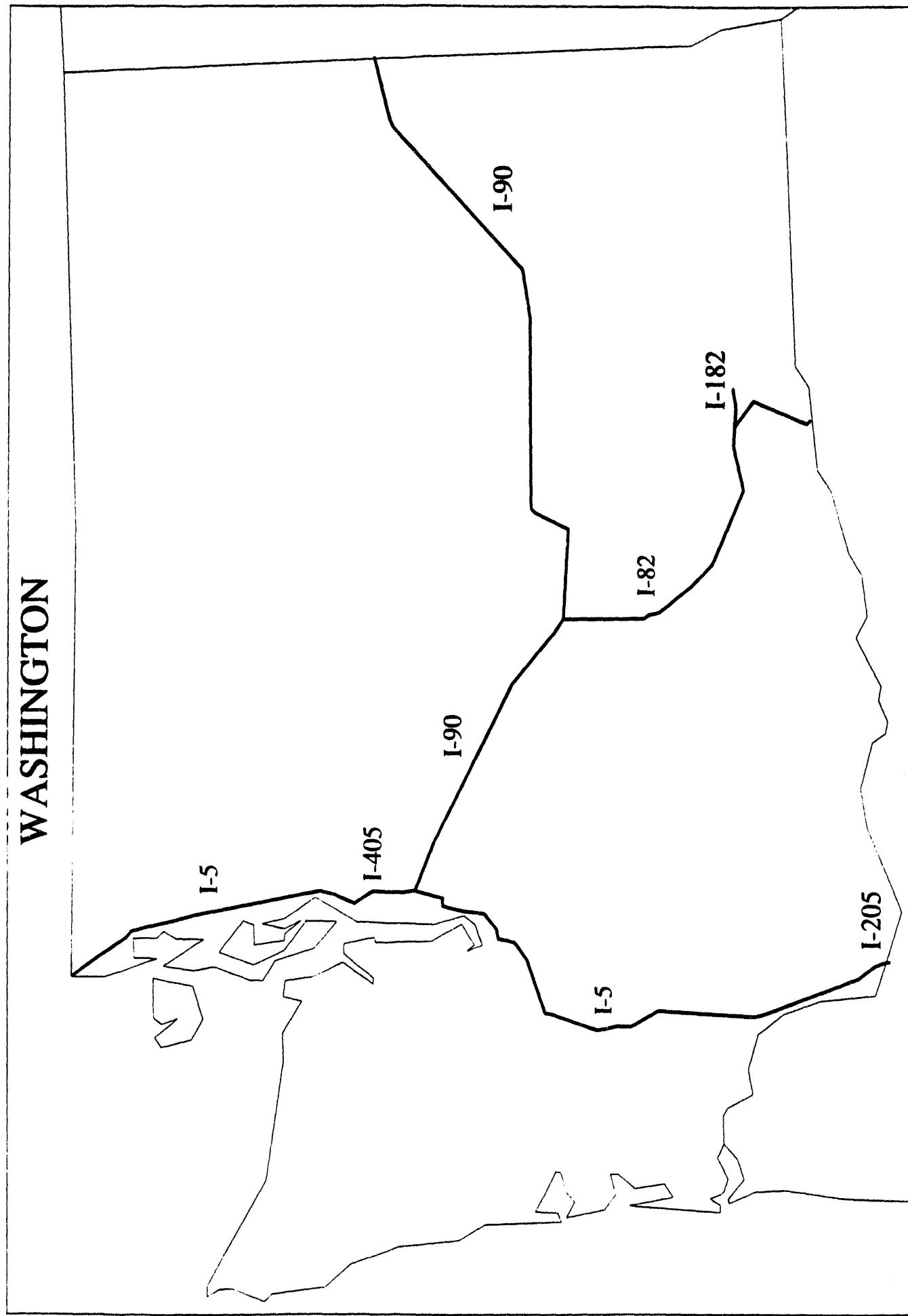
Preferred Routes in Washington

- I-182** • From I-82 to Pasco
- I-205** • From the Oregon state line to I-5 north of Vancouver
- I-405** • From junction of I-5 south of Seattle to junction of I-5 north of Seattle
- I-5** • From the junction with I-205 north of Vancouver to junction with I-405 south of Seattle
 • From junction with I-405 north of Seattle to the Canadian border
- I-82** • From Oregon state line to I-90
- I-90** • From I-405 to Idaho state line

State Designated Preferred Routes

Washington has not designated any additional roads.

WASHINGTON



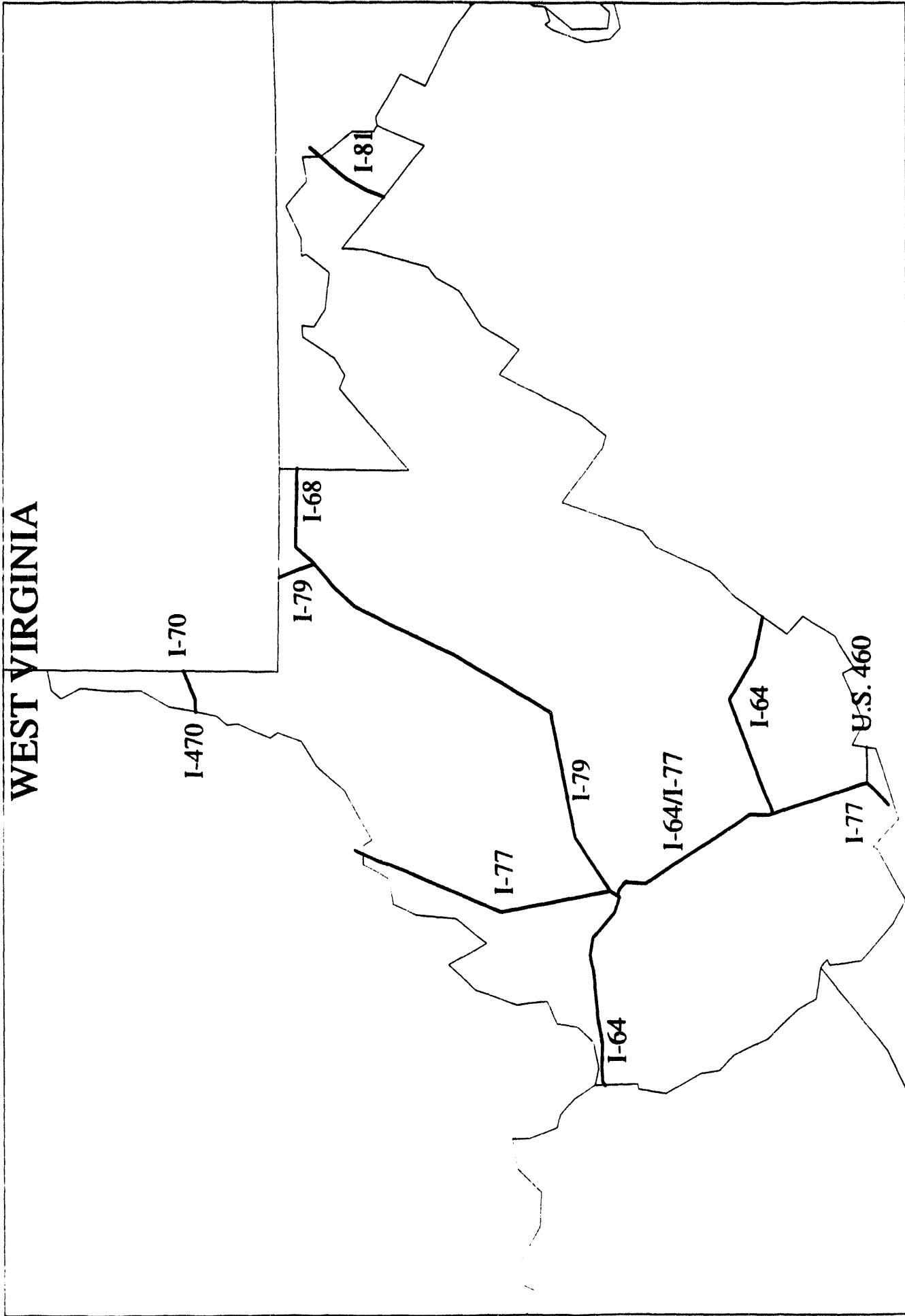
Preferred Routes in West Virginia

- I-470
 - From the Ohio state line to the junction with I-70 in Wheeling
- I-64
 - From the Kentucky state line to the junction with I-77 in Charleston
 - From the junction with I-77 south of Beckley to the Virginia state line
- I-64/I-77
 - From the junction of I-64 and I-77 in Charleston to the junction of I-64 and I-77 south of Beckley
- I-68
 - From the junction with I-79 south of Morgantown to the Maryland state line
- I-70
 - From the junction with I-470 in Wheeling to the Pennsylvania state line
- I-77
 - From the junction with U.S. 52 east of Bluefield to the junction with I-64 south of Beckley
 - From the junction with I-64 in Charleston to the Ohio state line
- I-79
 - From the junction with I-77 north of Charleston to the Pennsylvania state line
- I-81
 - From the Virginia state line to the Maryland state line

State Designated Preferred Routes

West Virginia has not designated any additional roads, but shipments coming from Virginia are banned from using I-77 (due to tunnels in Virginia). Virginia has designated U.S. 460 as the port of entry into West Virginia.

WEST VIRGINIA



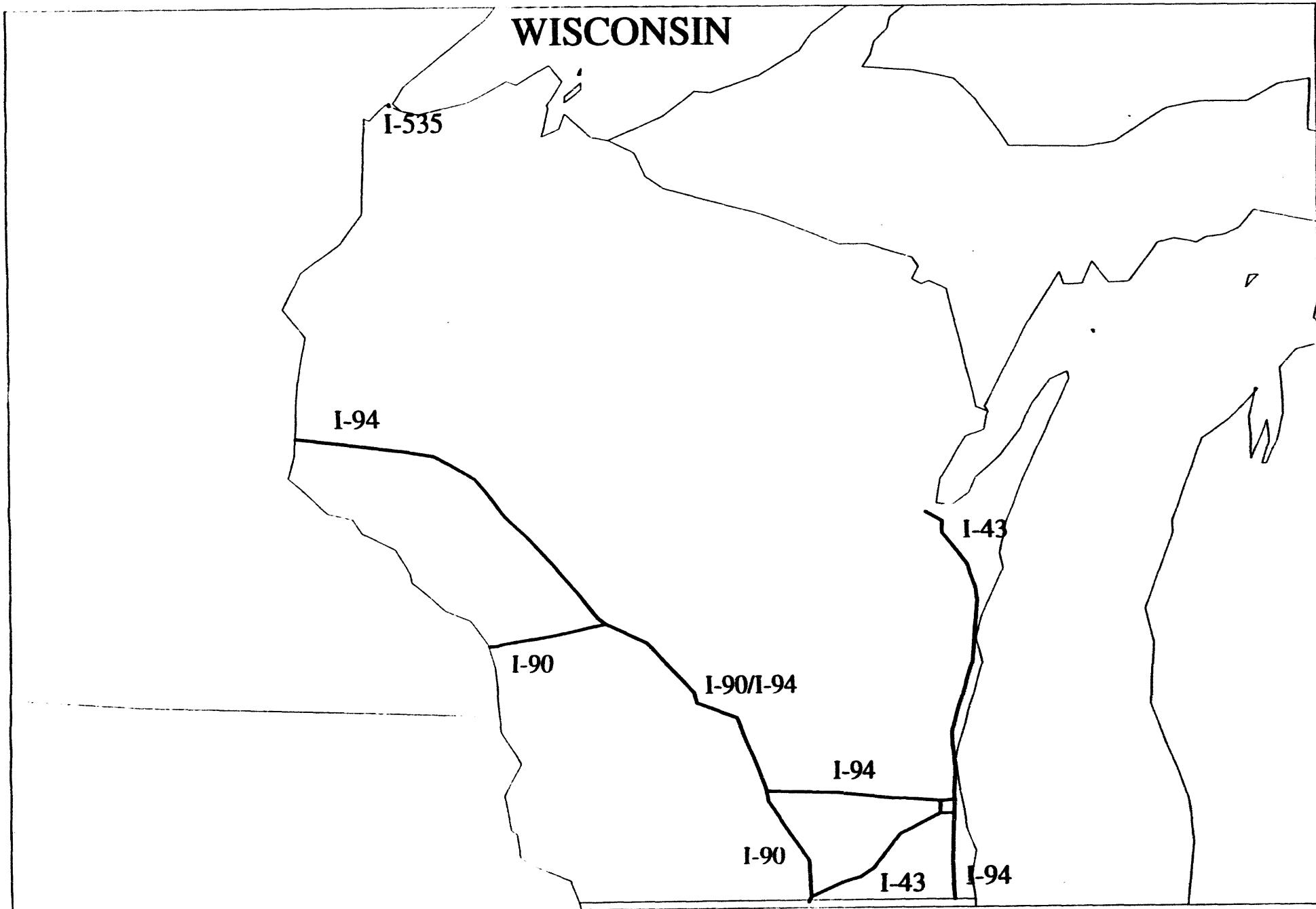
Preferred Routes in Wisconsin

- I-43** • From the junction with I-90 east of Beloit to the junction with I-894 southwest of Milwaukee
 - From the junction with I-94 in Milwaukee to Green Bay
- I-43/I-894** • From the junction of I-43 and I-894 southwest of Milwaukee to the junction of I-94 south of Milwaukee
- I-43/I-94** • From the junction of I-43/I-894/I-94 south of Milwaukee to the junction with I-794 in Milwaukee
- I-535** • From the Minnesota state line to Superior
- I-894** • From junction of I-94 west of Milwaukee to junction of I-43 southwest of Milwaukee
- I-90** • From the Minnesota state line to junction with I-94 near Tomah
 - From junction with I-94 east of Madison to the Illinois state line
- I-90/I-94** • From the junction of I-90 and I-94 near Tomah to the junction of I-90 and I-94 east of Madison
- I-94** • From the Minnesota state line to the junction with I-90 near Tomah
 - From the junction with I-90 east of Madison to the junction with I-43 in Milwaukee
 - From the junction with I-43 and I-894 south of Milwaukee to the Illinois state line

State Designated Preferred Routes

Wisconsin has not designated any additional roads.

WISCONSIN



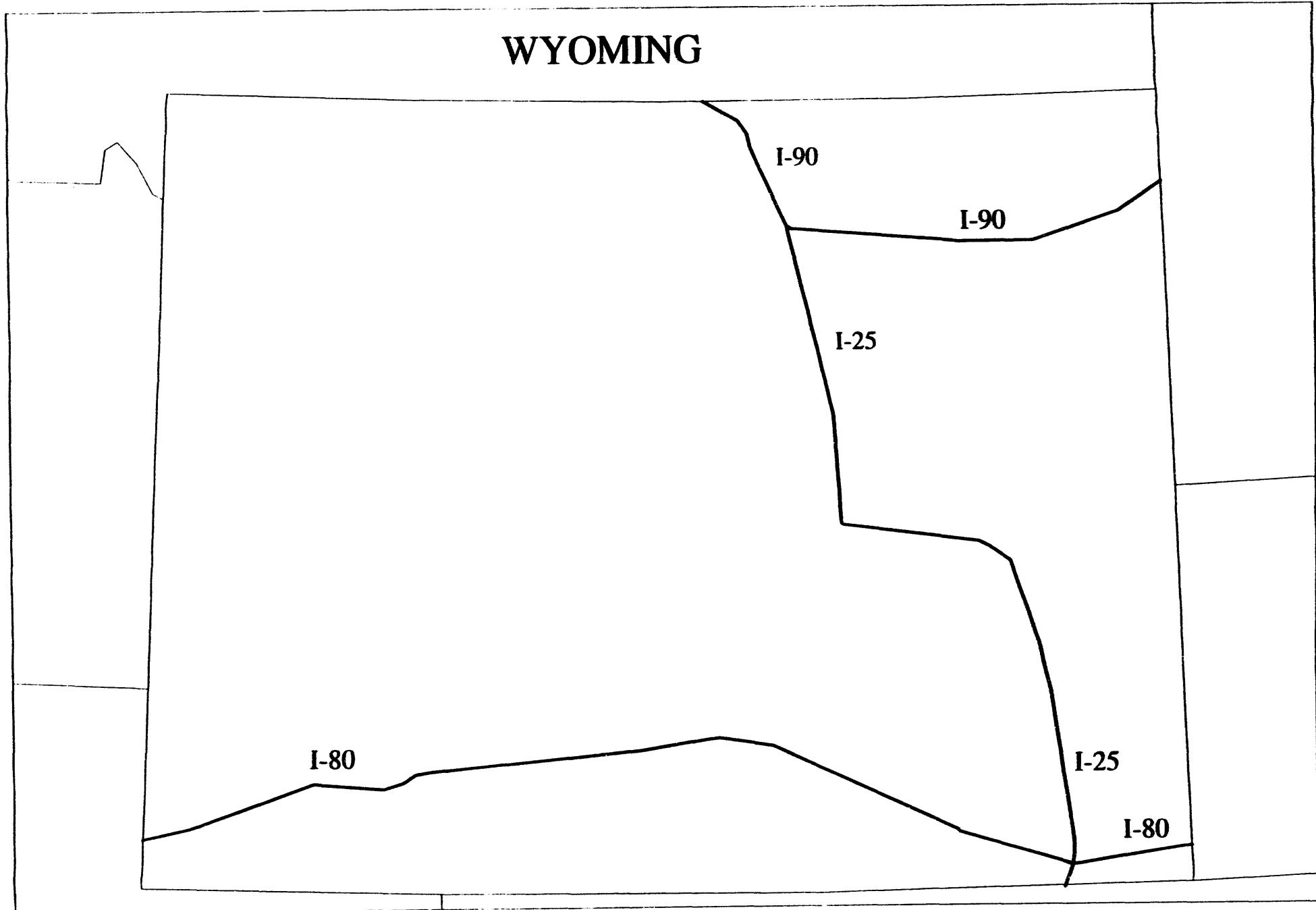
Preferred Routes in Wyoming

- I-25 • From the Colorado state line to I-90
- I-80 • From the Nebraska state line to the Utah state line
- I-90 • From the Montana state line to the South Dakota state line

State Designated Preferred Routes

Wyoming has not designated any additional roads.

WYOMING



APPENDIX A
REGULATORY FACILITY GUIDE REFERENCES

APPENDIX A

Regulatory Facility Guide References

¹Code of Federal Regulations (CFR), 10 CFR - *Energy*, Government Printing Office, Washington, January 1993.

¹Code of Federal Regulations (CFR), 15 CFR - *Commerce and Foreign Trade*, Government Printing Office, Washington, January 1993.

¹Code of Federal Regulations (CFR), 19 CFR - *Articles Exported and Returned*, Government Printing Office, Washington, April 1993.

¹Code of Federal Regulations (CFR), 29 CFR - *Labor*, Government Printing Office, Washington, July 1992.

¹Code of Federal Regulations (CFR), 40 CFR - *Protection of Environment*, July 1992.

¹Code of Federal Regulations (CFR), 49 CFR - *Transportation*, Government Printing Office, Washington, October 1992.

International Air Transport Association (IATA), *Dangerous Goods Regulations*, 35th Edition, Effective January 1, 1994, Montreal, Quebec, 1994.

²International Maritime Operations (IMO), *International Maritime Dangerous Goods Code*, Vols. 1-4, London, 1991.

³J.J. Keller & Associates, Inc., *Hazardous Waste Regulatory Guide: State Waste Management Programs, Generator, Transporter, Treatment, Storage & Disposal Standards*, Neenah, WI, 1993.

³J.J. Keller & Associates, Inc., *1910 OSHA Guide: Plant Safety Regulations & Index*, Neenah, WI, 1991.

³J.J. Keller & Associates, Inc., *Hazardous Waste Guide: For Generators, Transporters & TSD's*, Neenah, WI, 1992.

³J.J. Keller & Associates, Inc., *Fleet Safety Compliance Manual: Procedures, Regulations, Source Data: Personnel, Operations and Equipment*, Neenah, WI, 1992.

³J.J. Keller & Associates, Inc., *Hazardous Waste Operations & Emergency Response Compliance: OSHA Part 1910.120*, Neenah, WI, 1992.

³J. J. Keller & Associates, Inc., *Motor Carrier Safety Report*, Volume XIX, 1993 (published monthly).

³J. J. Keller & Associates, Inc., *Vehicle Sizes & Weights Manual*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *Trucking Safety Guide*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *Hazardous Materials 181: The Guide for Shippers, Handlers & Transporters*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *State Hazardous Materials Manual: State Requirements for Shipping and Transportation*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *Hazardous Waste Management Guide: Identification, Monitoring, Treatment and Disposal. Regulations, Compliance & Management*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *Trucking Permit Guide: Private, Contract, Common, Exempt*, Neenah, WI, 1993.

³J. J. Keller & Associates, Inc., *Drug Testing: Motor Carrier Compliance Manual*, Neenah, WI, 1993.

W. E. Kenworthy, *Transportation of Hazardous Materials, Second Edition, A Compliance and Practice Guide for Safe Transportation of Hazardous Materials*, Government Institutes, Inc., 1992.

⁴Office of Executive Director, Conference of Radiation Control Program Directors, Inc., *Directory of State Agencies Involved with the Transportation of Radioactive Material - With Notes on Their Statutory Authority and Regulations*. CRCPD Publication 92-6, Frankfort, KY, November 1993.

⁵Tennessee Code Annotated, Section 110, *Liability Insurance Requirements*, 1982.

⁵Tennessee Code Annotated, Section 113, *Safety Rules and Regulations - Inspection of Vehicles...*, 1991 Supplement.

Ordering information for footnoted references:

¹C.W. Associates
P.O. Box 34099
Bethesda, MD 20827
Telephone: (301) 340-9399

²American Labelmark Company
Labelmaster Division
5724 North Pulaski Road
Chicago, IL 60646-6797
Telephone: (312) 478-0900; Fax: (312) 478-6054

³J.J. Keller & Associates, Inc.
3003 W. Breezewood Lane
P.O. Box 368
Neenah, WI 54957-0368

⁴Executive Director
Conference of Radiation Control Program Directors, Inc.
205 Capital Avenue
Frankfort, KY 40601
Telephone: (502) 227-4543

⁵Tennessee Motor Vehicle Laws Annotated
(Reprinted from the Tennessee Code Annotated)
Nashville, TN 37243-0505
Telephone: (615) 741-2974, 1-800-342-8359

APPENDIX B
CONTACTS DIRECTORY

APPENDIX B CONTACTS DIRECTORY

Analysas Corporation
Oak Ridge Corporate Center
151 Lafayette Drive
Oak Ridge, TN 37830

Contact: Barbara Turner, Manager, Transportation Operations
Telephone: (615) 576-9545; FAX: (615) 576-0709
Contact: Mike Bohlen, Manager, Packaging Operations
Telephone: (615) 576-2245; FAX: (615) 576-9417

Bechtel National, Inc.
P.O. Box 350
Oak Ridge, TN 37831
Contact: Karen Noey, Supervisor, FUSRAP Waste Management
Telephone: (615) 576-4432; FAX: (615) 576-2249

Department of Energy
Oak Ridge Operations
P.O. Box 2001
Oak Ridge, TN 37831
Contact: Brady Lester, Transportation Manager
Telephone: (615) 576-8354; FAX: (615) 576-5333
Contact: Marvin Bennett, Packaging Manager
Telephone: (615) 576-0853; FAX: (615) 576-5333
Contact: Doug Stancel, Transportation Safety
Telephone: (615) 576-9214; FAX: (615) 576-3725
Contact: Dana Willaford, Transportation Safety
Telephone: (615) 576-5338; FAX: (615) 576-3725

Martin Marietta Energy Systems, Inc.
P.O. Box 2009
Oak Ridge, TN 37831-8241
Contact: Brad Welles, Transportation Compliance Manager
Telephone: (615) 574-6376; FAX: (615) 241-2023

Martin Marietta Energy Systems, Inc.
P.O. Box 2008
Oak Ridge, TN 37831-6267
Contact: Randy Walker, Director of Packaging & Transportation
Telephone: (615) 574-5522; FAX: (615) 574-1979

Martin Marietta Energy Systems, Inc.
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6267
Contact: Randy Walker, Transportation Operations
Telephone: (615) 574-5522; FAX: (615) 574-1979
Contact: Mark Hawk, Packaging Operations
Telephone: (615) 574-6042; FAX: (615) 574-1979

Martin Marietta Energy Systems, Inc.
Y-12 Site
P.O. Box 2009
Oak Ridge, TN 37831-8043
Contact: Roger Yarborough, Transportation Operations
Telephone: (615) 574-6550; FAX: (615) 574-8612
Contact: Ed Stumpfl, Packaging Operations
Telephone: (615) 574-2547; FAX: (615) 574-3514

Martin Marietta Energy Systems, Inc.
K-25 Site
P.O. Box 2003
Oak Ridge, TN 37831-7532
Contact: Henry Nennstiel, Transportation Operations
Telephone: (615) 574-4049; FAX: (615) 576-2838
Contact: Jerry Rutherford, Packaging Operations
Telephone: (615) 574-8950; FAX: (615) 574-1979

MK-Ferguson of Oak Ridge Company
P.O. Box 2011
Oak Ridge, TN 37831-2011
Contact: Judy Hedden, Transportation Operations
Telephone: (615) 574-3033

Oak Ridge Institute for Science & Education

P.O. Box 117

Oak Ridge, TN 37831-0117

Contact: Larry O'Barr, Asst. Director, Office of Facilities Management, Transportation, & Svcs.

Telephone: (615) 576-9246; FAX: (615) 576-7046

Science Applications International Corporation

301 Laboratory Rd.

Oak Ridge, TN 37831

Contact: Cheryl Hamberger, SMAC Coordinator

Telephone: (615) 481-2913; FAX: (615) 482-6828

Contact: Steve Schmid, Packaging Operations

Telephone: (615) 481-2899; FAX: (615) 481-8591

Tennessee Emergency Management Agency

3041 Sidco Dr.

Nashville, TN 37204

Contact: John White, Asst. Deputy Director

Telephone: (615) 741-0001

AFTER HOURS: (Inside TN - 1-800-262-3300) (Outside TN - 1-800-258-3300)

(Governor Designee for Receiving Advance Notification of Transportation of Nuclear Waste Shipments)

Tennessee Public Service Commission

460 James Robertson Parkway

Nashville, TN 37243-0505

Contact: Paul Melander, Manager, Motor Carrier Investigations

Telephone: (615) 741-2974; 1-800-342-8359

Tennessee Department of Environmental and Conservation

Division of Radiological Health

401 Church St., 3rd Floor, L&C Annex

Nashville, TN 37243-1532

Contact: Elizabeth Flanagan, Emergency Services Coordinator

Telephone: (615) 532-0416

(Radioactive Materials Licensing, Emergency Response)

Tennessee Department of Environment and Conservation

Division of Solid Waste Management

401 Church St., 5th Floor, L&C Annex

Nashville, TN 37243-1535

Contact: Alcyone Arnold

Telephone: (615) 741-3424

Tennessee Department of Safety
1150 Foster Ave.
Hardison Building
Nashville, TN 37249
Contact: Burton Lawson
Telephone: (615) 251-5196
(*Enforcement Agency for Vehicle Sizes & Weights*)

Tennessee Department of Transportation
Overweight & Overdimensional Permit Section
Suite 300, James K. Polk Bldg.
505 Deaderick St.
Nashville, TN 37243-0331
Contact: Jerry W. Smith, Civil Engineer
Telephone: (615) 741-3821

APPENDIX C
IMPORT/EXPORT INFORMATION AND REQUIREMENTS

APPENDIX C
IMPORT/EXPORT INFORMATION AND REQUIREMENTS
1. IMPORTING INTO THE UNITED STATES

1.1 INTRODUCTION

Communication between the parties involved in a commercial import transaction is necessary to avoid problems that can occur after a shipment arrives at a U.S. Port of Entry, such as:

- Assessment of excess duty through misclassification or buying from nations that do not enjoy most-favored-nation status.
- Assessment of duty on a piece of foreign equipment (on which duty was previously paid) being returned to the United States after having been exported for repair or alteration by a foreign vendor, or assessment of duty on a complete article that is comprised, in part, of American goods previously exported.
- Detention of urgently needed goods at the port for want of correct documentation. [The cure for missing documents is to post a bond until the documents can be produced (see 19 CFR 141.66).]
- Penal sanctions affecting the importer through inaccurate or misleading statements of fact or omissions of required information even though unintentional. Mismarking is subject to additional duty of 10%.
- Duty-free entry of scientific instruments or apparatus provided that: (1) the application (Form ITA-338P) is executed in the name of the U.S. Department of Energy (DOE) and is signed by a cognizant official of the Department, and (2) the procurement document is executed by DOE.
- Duty-free entry of articles exported for scientific or educational purposes and returned to the United States. (See 19 CFR 10.67 for details.)

As an agency of the Federal Government, DOE enjoys certain privileges and exemptions from the bonding requirements and the regulations of the Customs Service.

- No bond or deposit of estimated duties or taxes is required to release a shipment if a stipulation of compliance in the name of DOE is filed with Customs. Customs will bill DOE after liquidation (see 19 CFR 141.102). However, a few DOE contractors import under their own names. If they employ a customshouse broker, either their bond or the broker's bond can be used as surety.

- No bond is required to release shipments under an Immediate Delivery Permit provided that a stipulation in the form provided in 19 CFR 10.101 is filed with Customs.
- Certain source materials (Item 9808.00.5000 HTSUS) are accorded duty-free status when so certified by DOE in the form shown in 19 CFR 10.102.
- American goods returned (Item 9801.00.10 HTSUS) enjoy duty-free status when certified on the letterhead of the Department or contractor in the form shown in 19 CFR 10.103. For better control, some contractors elect to register American goods to be returned on Customs Form 4455 (Figure 18) when exported and execute Form 3311 (Figure 19) when imported. Also see 19 CFR 10.67 for articles returned after having been exported for scientific or educational purposes. Use Forms 4455 and 3311 when applying these provisions.

1.2 CUSTOMS ORGANIZATION

The Customs Service staffs Ports of Entry in Puerto Rico, the Virgin Islands, and in every State in the Union except South Dakota and Wyoming. See 19 CFR 101.3 for Customs regions, districts, and ports. In addition, there are Customs Officers attached to U.S. embassies in most countries that are U.S. trading partners. Foreign exporters are encouraged to consult with these officers concerning U.S. Customs regulations.

1.2.1 Customs Regulations

Imports of goods into the United States are controlled by the following statutes and regulations:

- Omnibus Trade and Competitiveness Act of 1988.
- "Customs Duties," CFR 19, Chapter 1.
- "Harmonized Tariff Schedules of the United States" (HTSUS).

CFR 19 and HTSUS are published by the Government Printing Office and should be included in the reference library of any importer. Another publication of the Government Printing Office, "Importing into the United States," written in laymen's language, is helpful in interpreting Customs regulations.

1.2.2 The Harmonized System

The Harmonized System (HS) is a new classification system for goods moving in international trade. HS has been adopted by the United States and all of its major trading partners. There are 137 countries also considering adoption. Nomenclature and basis for classification are uniform in the HS, but each country establishes its own rates of duty subject to agreements under the "General Agreement on Tariffs and Trade" (GATT) treaty. Two new documents, HTSUS and the Harmonized Schedule B (HSCH B), replaced the Tariff Schedules of the U.S. Annotated (TSUSA) and Schedule B, respectively, effective January 1, 1989. A comparison of these documents follows.

A.	<u>TSUSA</u>	v.	<u>HTSUS</u>	<u>HSCH B</u>
Measure	U.S.		Metric	Same
Language	U.S.		Oxford English	Same
Construction	8 Schedules and parts thereof		22 Sections 99 Chapters	Same 98 Chapters
Headings	N/A		5,000 6-digit	Same
Tariff	7,208 5-digit		8,090 8-digit	N/A
Statistical	13,723 7-digit		10,457 10-digit	*8,000 10-digit
Basis for Classification	Chief value Chief use Ornamentation		Predominant Weight Essential character eliminated	Same Same Same
Special	N/A		N/A	Chapter 98
Provision	Schedule 8 Appendix		Chapter 98 Chapter 99	N/A N/A

- * Of the 8,000 entries, about 5,600 are identical in both the HTSUS and the HSCH B. The difference is attributable to entries for tariff purposes, which are not applicable to exports.

B.

GLOSSARY

TSUSA

Schedule
Part
Subpart
Provision
Item Number
General Head--
notes 1 thru 9
General Head--
note 10
General Head--
notes 10(e) and 10(i and j)

HTSUS & HSCH B

Section
Chapter
Subchapter
Heading
Subheading
General Notes
General Rules of
Interpretation (GRI)
U.S. GRI

C.

EXAMPLE OF STRUCTURE

UNIVERSAL LEVEL

Headnotes
GRI
Notes
Section XVIII
Chapter 90
Heading 9008
Subheading 9008.30

NATIONAL (U.S.) LEVEL

Tariff Subdiv. 9008.30.00
Statistical Subdiv. 9008.30.0000
(Nations may expand upon the
6-digit number but may not
conflict with or alter it.
Also may add GRIs and notes
applicable to that nation's
trade.)

D. In the HTSUS, there is a more logical progression in the grouping of commodities starting with raw materials and progressing through processing to finished goods. Example: Chapter 41, "Raw Hides and Skins (other than Furskins) and Leather"; Chapter 42, "Articles of Leather," etc.; Chapter 43, "Furskins and Artificial Fur; Manufactures thereof." Under the HS, "Goods" is always interpreted as "finished goods."

E. One of the objectives in converting the TSUSA to the HS was to minimize tariff-rate changes. This objective was met by holding all changes to 1/2 of 1%. However, there were some very drastic changes, mostly reductions, on some commodities. For example, a trade weighted average (TWA) was made of ornamented v. nonornamented cotton overcoats imported into the United States. Statistics proved that most of the trade was in nonornamented. Subsequently, "ornamentation" was dropped as a criterion and the tariff rate reduced from 21% to 10%.

F. "Essential Character" is the backbone of the new classification criteria under the HS. Its definition and an example follow.

"It is the role of the component or material in relation to the use or function of the goods." For example, an office desk with a wooden top, steel legs, and drawers would be classified under 9403.10.00 as "metal furniture of a kind used in offices" inasmuch as it is the drawers rather than the top that gives the desk its essential character. Otherwise, the product would be a table with the wooden top giving it its essential character.

G. While there still are some specific entries for sets, i.e., 8206 "Hand Tool Sets," the HTSUS has a broad provision for the importation of nearly any merchandise put up as a set provided it meets the following definition:

"A multitude of items having a single function with a single classification."

1. They must consist of at least two different articles that are classifiable under different headings.
2. At the time of entry or export, they must be put up as a set suitable for retail sale.
3. They must consist of articles put up together to meet a particular need or carry out a specific activity.

Example: A pasta meal for two consisting of 0406 package of grated cheese, 1902 package of uncooked spaghetti, and 2103 can of tomato sauce would be classified as a set under 1902.

This also applies to systems with a single function and sold as a system.

H. This new philosophy of togetherness allows items normally sold with, and shipped with, mixtures and sets to be classified as a single item. Example: A framed painting can be grouped under a single heading provided the frame is of a kind normally sold therewith, but not a \$2,000 frame with a cardboard poster.

I. There are six universal GRIs and one U.S. GRI that are the keys to classification.

GRI #1 - "Eo Nomine" or earliest use by its own name.

GRI #2 - "Essential character principle" for composite goods and mixtures. Example: A motorcycle without a motor is still a motorcycle since it retains its essential character.

GRI #3 - "Essential character principle" for finished goods. Example: The steel desk with the wooden top previously cited.

GRI #4 - "Most akin rule" if previous GRIs do not fit.

GRI #5 - "Shipped with principle" for cases and packaging material. Does not apply to reusable containers like compressed-gas cylinders.

GRI #6 - Compare apples with apples, not oranges, when determining classification. Only subheadings at the same level are comparable.

U.S. GRI - Controlled and actual use. Plan your use and use your plan.

GRIs are hierarchical; that is, they must be considered in the order listed with GRI #1 having first priority.

J. Notes have the same legal weight as headings or subheadings. They are intended to:

1. Define the scope of limits of a heading or subheading.
2. Provide lists of goods excluded from a particular section.
3. Provide lists of goods included in a particular section.

It is very important that notes be considered when classifying commodities.

K. Explanatory Notes are contained in a separate four-volume, 1,620-page "official" explanation of what was intended by the GRIs, section and chapter, notes and headings. These notes provide the authoritative source for technical definitions, some of which were used in this writeup.

1.3 THE ENTRY PROCESS

Basically, entry is a two-step process. First, file the documents to allow the merchandise to be imported. Second, file the documents that will allow Customs to assess duty or exempt the merchandise from duty and obtain statistical information. The steps follow.

1. Within 5 working days of the date of arrival of a shipment at a U.S. Port of Entry, entry documents must be filed unless an extension is granted. These documents are:
 - (a) Entry Manifest, Customs Form 7533, or Application and Special Permit for Immediate Delivery, Customs Form 3461, or other form of release

required by the District Director of Customs. See 19 CFR 141.61. An Entry Summary, Form 7501 (Figure 20) also may be filed if the necessary documents and information needed to complete the form are available within the 5 days.

- (b) Evidence of the right to make entry as the Importer of Record is required. Presentation of shipping papers and invoices in the name of the importer is usually sufficient evidence. See 19 CFR 141.11. Customshouse brokers also have the right to make an entry.
- (c) Commercial invoice or a pro forma invoice (Figure 21) when the commercial invoice cannot be produced. See 19 CFR 141.86 for general contents and 141.87, 141.88, and 141.89 for additional information required for certain classes of merchandise such as aluminum metal, bearings, machines, iron and steel articles, colors, dyes and stains, etc.

Fifteen exceptions are listed in 19 CFR 141.83; four examples are listed below.

- Merchandise having an aggregate price of value of \$500 or less.
- Merchandise returned to the United States after having been exported for repairs or alteration. Duty is applicable only on the cost of the repairs or alteration.
- Exported merchandise returned to the United States because it was undelivered.
- Merchandise consigned to or entered in the name of DOE.

Although no commercial invoice is required, some evidence of value and description of the merchandise for statistical purposes must be presented to Customs.

- (d) Packing lists if appropriate.
- (e) Other documents necessary to determine merchandise admissibility such as a cost of production statement, an NRC license, a certificate on Canadian crude petroleum, a stipulation or certificate by DOE or the contractor, etc.
- (f) Following acceptance of the entry, the shipment is examined, or examination is waived and released.

2. When goods are released from Customs custody on entry documents, an Entry Summary Form 7501 (Figure 20) must be filed and duty paid (or for DOE billed later) at the port of entry within 10 working days of the time the goods are entered and released. Many contractors dispense with entry documents by filing the entry summary within 5 days. Additional information is required on the entry summary when importing petroleum products in bulk. See 19 CFR 151.41 for details.

If there is a failure to file an entry for goods in a timely manner, Customs may place them in a general order warehouse at the expense and risk of the importer.

1.4 MAIL AND INFORMAL ENTRIES

Contractors may find it advantageous to use the mails to import low-valued merchandise provided:

- The shipment does not exceed the size and weight limitations of exporting country.
- The merchandise does not exceed \$1,000 in value except for certain classes of textiles, wood products, wearing apparel, plastic or rubber articles, agricultural products, and products of the seas, on which the limit is \$250. These exceptions are listed in Sections II, VII, IX, and XI of HTSUS.

The duties on parcels not exceeding the dollar limits above are collected by the letter carrier or, if for DOE, the parcel may be released upon arrival if accompanied by the stipulation explained in Section 1.1 of this appendix. The stipulation can be sent to the foreign vendor with the order. No entry is required on duty-free merchandise not exceeding \$1,000.

The vendor should be instructed to mark the package with the country of origin and enclose two copies of a commercial invoice with the mark "Invoice Enclosed." If the parcel is sealed it should be marked "May be opened for Customs purposes before delivery." Certain types of merchandise such as wood products and textiles require other marks, but DOE contractors do not usually import such commodities. See 19 CFR 145 for details. The same dollar limits apply to certain classes of merchandise eligible for informal entry. See 19 CFR 143.21 for details.

1.5 POWER OF ATTORNEY

When entry is made by a customshouse broker, a Customs power of attorney (Form 5291) given by the firm for which the broker is acting as agent should be made (19 CFR 141.46). The best evidence of the authority of an employee to make entry for his employer is a Customs power of attorney. Generally, however, Customs will also accept the signature of a traffic officer of the importing corporation if it is well known. DOE field offices may delegate to a contractor employee the authority to act for DOE by writing Customs at the port of entry on DOE letterhead.

1.6 EXAMINATION OF GOODS (19 CFR 151)

Prior to release of the goods Customs may designate a representative quantity for examination or may waive examination for DOE. Examination is necessary to determine:

- The value of the goods and their dutiable status.
- That the goods were properly marked especially if the regulations require special markings or labeling (19 CFR 11).
- Whether or not the shipment contained prohibited articles (19 CFR 145, Subpart E).
- That the goods are correctly invoiced.
- Whether or not the goods are over/short from invoiced quantities.
- That the tare weight allowance appears to be reasonable on goods assessed duty based on weight (19 CFR 159 Subpart B).

1.7 THE COMMERCIAL INVOICE

A commercial invoice, prepared in accordance with 19 CFR 141.86, and signed by the seller, shipper, or their agents is acceptable. The invoice must contain the following information:

- Port of entry to which the merchandise is destined.
- Names of buyer and seller (or shipper and receiver) and time and place of sale.
- A detailed description of the merchandise, including marks.
- The quantities in weights and measures of the United States or exporting country and number of packages.
- Purchase price in the currency of the sale.
- The kind of currency.
- All charges upon the merchandise itemized by name for freight, insurance, commission, and all other expenses for bringing the merchandise alongside the carrier at the first port of entry. Packaging and inland freight in the foreign country need not be itemized if included in the invoiced price.

- All rebates, drawbacks, bounties, discounts, separately itemized.
- Additional information for certain classes of merchandise (19 CFR 141.89).
- Invoices and attachments in English or accompanied by a translation.

1.8 OTHER INVOICES

When the required commercial invoice is not available at time of entry, a pro forma invoice executed by the importer may be substituted by posting a bond against production of the invoice for statistical purposes within 50 days but not later than 6 months from date of entry.

A special summary steel invoice in duplicate is required on certain iron and steel products with an aggregate purchase price of \$5,000 or more from contiguous countries or \$10,000 from other countries. This invoice must accompany the entry summary. See 19 CFR 141.89 for details. In addition to the special steel invoice required by U.S. Customs, some countries like Japan control exports of steel in any quantity to the United States by issuing a special export license.

1.9 CUSTOMS DUTY

All goods imported into the United States are subject to duty or duty-free entry according to their classification in HTSUS.

There are three types of duty rates: ad valorem, specific, or compound rates. The ad valorem rate is used most often and is applied to a percentage of the value appraised by Customs. A specific rate is the rate applied to a unit of measure, weight, number of items imported, dozens, etc. A compound rate is a combination of the first two such as 5 cents per pound plus 5% of the appraised value.

Duty varies by country, as reflected in the three columns headed "Rates of Duty" in HTSUS. Column 1 affords preferential duty status to U.S. trading partners such as the United Kingdom; Column 2 levies high statutory rates on imports from Eastern Bloc nations; and the "Special" column reflects free or minimum-duty rates to promote the development of the economies of friendly or Third World nations.

The rates in the "Special" column reflect the following preferences:

Generalized System of Preferences.....	A or A*
Automotive Products Trade Act.....	B
Agreement on Trade in Civil Aircraft.....	C
United States-Canada Free Trade Area.....	CA
Caribbean Basin Economic Recovery Act.....	E or E*
U.S.-Israel Free Trade Area.....	IL

Using HTSUS Item 8205.10.00, "drilling, threading and tapping tools," as an illustration, Column 1 rates would be 6.2% ad valorem; Column 2 would be 45% ad valorem; country CA, 5.5% ad valorem; and countries A,E,IL, duty free. To claim exemption from duty, see 19 CFR 10.172, which requires a certificate of origin. With the possible exception of Israel, countries afforded duty-free status might not produce the type or quality of products that would attract DOE or contractor buyers. See 19 CFR 10.171-10.198 for the Generalized System of Preference and the GRI and notes in HTSUS. Also see 19 CFR 10.179 for the duty-free entry of Canadian crude petroleum under an exchange agreement.

1.10 DRAWBACK - REFUND OF DUTY

A 99% refund of duty is allowed for any imported merchandise found not to conform to specification or shipped without consent of the consignee. Rejected merchandise should be returned to Customs for examination and exported within 90 days of its release unless an extension is granted. See 19 CFR Part 191 for details on this and other types of drawbacks. Apply for a drawback on Customs Form 7539 (Figure 22) supported by Customs Form 7511 and the shippers export declaration.

1.11 TEMPORARY IMPORTATION UNDER BOND

Section XXII, Chapter 98 of HTSUS admits certain articles into the United States duty free for a period of 1 year. A bond in the amount of double the estimated duty must be posted. Of interest to DOE and its contractors might be Item 9813.00.51 "Professional equipment, tools of the trade, repair components for such equipment," which are duty free.

1.12 ATA CARNETS

ATA stands for the combined French and English words Admission Temporaire-Temporary Admission. The carnet is an international customs document that may be used for the temporary admission of professional equipment, commercial samples, and advertising material. Carnets can be used in any country that is a U.S. trading partner and certain others that have accepted the ATA convention. In the United States, carnets are issued by the U.S. Council of the International Chamber of Commerce, 1212 Avenue of the Americas, New York, NY 10036. There is a fee for issuing the carnet and guarantee against the payment of Customs duties. The term is 1 year, not renewable.

Another type of carnet is the Transport International Routier (TIR), which is used between countries outside of the Common Market. The TIR convention permits sealed cargoes to move from one country to another. Each cargo is covered by a Customs bond guaranteeing delivery of the goods to the destination country.

1.13 CONVERSION OF CURRENCY

The conversion of currency for Customs purposes is at the rate of exchange determined by the Federal Reserve Bank of New York. The rate used during the quarters is the one certified on the first business day of each calendar quarter unless fluctuations of 5% or more occur. The certified rate for the day on which the fluctuation occurs will then be used. The date of exportation of the goods is used to determine the certified rate of exchange for Customs purposes, even though a different rate is used for payment of the goods.

1.14 RESTRICTED OR PROHIBITED ARTICLES AND OTHER AGENCY REQUIREMENTS

Restrictions or prohibitions on food; drugs; cosmetics; economic poisons; hazardous substances; and dangerous, caustic, or corrosive substances may be found in 19 CFR 12. Enforcement of laws for other agencies including NRC is shown in 19 CFR 161.2. DOE is exempt from NRC import regulations. See Section 1.18 of this appendix.

The Toxic Substances Control Act (TCSA) holds importers responsible as if they were "manufacturers" of toxic, noxious, or hazardous materials at ports of entry. Under this law the importer must produce health and safety data, provide premarketing notification, and review the regulation of new substances for new uses. Included are chemicals fully contained in dyes, paints, instruments, and machinery.

1.15 FOREIGN TRADE DEFINITIONS

The foreign seller and the U.S. buyer should agree in the sales contract as to which terms of sale will govern the contract, either the "Revised American Foreign Trade Definitions - 1941" (similar to FAR 47) or the Incoterms of 1980. There are some subtle differences in the assumption of risk, which could lead to misunderstandings. Also, when buying by weight, "ton" should be defined as metric (2,204.6 pounds).

1.16 FINANCING IMPORTS

Most DOE contractors have credit ratings that enable them to purchase foreign goods on open account often through a distributor in the United States. Other methods involve using banks as collection agencies.

The most secure method of collection is through an irrevocable letter of credit, which the importer opens with a U.S. bank. The foreign bank, acting as correspondent for the U.S. bank, will remit to the seller when the terms of the letter of credit are satisfied. Usually the seller draws a draft, attaches the necessary clearance documents, and sends the draft through the foreign bank for payment. Once payment is made there is no recourse against the seller.

If a business relationship exists between the parties, the seller may depend on a sight draft or time draft (30, 60, or 90 days) to effect collection. The seller attaches the necessary clearance documents and forwards the draft with a collection letter through the correspondent banks with instructions to transfer title when the buyer has satisfied or guaranteed payment.

1.17 DUTY-FREE ENTRY OF SCIENTIFIC INSTRUMENTS OR APPARATUS

Item 9810.00.60 of HTSUS provides for duty-free importation of instruments and apparatus "entered for the use of any nonprofit institution whether or not public or private established for educational or scientific purposes...if no instrument or apparatus of equivalent scientific value...is being manufactured in the United States" (15 CFR 301.1).

Applications must be made on Form ITA-338P, which may be obtained from the Statutory Import Staff, International Trade Administration, U.S. Department of Commerce, Washington, DC 20230 (15 CFR 301.3). Applications may be filed by eligible persons who have placed a bona fide order for the article or who intend to place a bona fide order within 60 days after decision on the application becomes final. For DOE, an eligible person can be a cognizant official of the Department. However, a contracting officer of the field office having jurisdiction is preferred.

The application is filed with the U.S. Customs Service at the address shown on page 1 of the application. Customs reviews the nonprofit status of the applicant in the current edition of "Cumulative List of Exempt Organizations," or verifies that the applicant is an agency of the U.S. Government involved in educational or scientific work. Customs assigns numbers to the application and also verifies that the instrument or apparatus falls within the class eligible for duty-free entry in the U.S. Notes to Subchapter X, HTSUS. It is important to justify domestic nonavailability not just with such a statement, but also with a detailed description of the instrument or apparatus on the application. Such detail is necessary to enable Customs to make its determination as to eligibility for duty-free entry and to avoid a protest from domestic suppliers when the application is posted for public inspection.

Customs assigns a number to the application and forwards one copy to the Secretary of Health and Human Services, the original and one copy to the Department of Commerce, keeps a file copy, and returns one copy to the applicant stamped "Accepted for Transmittal to the Department of Commerce."

The Department of Commerce (DOC) posts a copy for public inspection at its Washington, DC, offices within 10 days of receipt and publishes a notice in the Federal Register. If no adverse comments are received within 20 days, the application will be approved.

In the meantime, the copy returned to the applicant stamped "Accepted for Transmittal" may be used with the other entry documents to avoid a deposit of estimated duty. Liquidation will be suspended for 180 days pending approval of the application.

When the imported instrument reaches the port of entry, a claim must be filed by the importer for duty-free entry under HTSUS Item 9810.00.60 at the same time a bond, a deposit, or, in the case of DOE, a stipulation must be posted against payment of duty should the application be denied. If no such claim is made, the instrument will be classified without regard to Item 9810.00.60 and duty will be assessed and entry liquidated in the usual manner. See 15 CFR 301 for these details.

Note: The names of commercial firms who are DOE contractors may not be shown as either the purchaser or the consignee except that the instrument may be shipped to DOE in care of such contractor.

1.18 NUCLEAR EQUIPMENT AND MATERIAL IMPORT PROCEDURES

Imports of nuclear materials into the United States are controlled by the following statutes and regulations in addition to those of the Customs Service:

- Atomic Energy Act of 1954 as amended.
- Nuclear Non-Proliferation Act of 1978.
- 10 CFR 110 "Export and Import of Nuclear Equipment and Material."
- 49 CFR 171.11 "Use of ICAO Technical Instructions," 171.12 "Import and Export of Shipments," and Part 171.12a "Canadian Shipments and Packaging."

10 CFR 110.27 addresses imports as follows:

A General License is issued to any person to import byproduct, source, or special nuclear material, other than 100 kilograms or more of irradiated fuel, if the consignee is authorized to possess the material under: (a) a contract with the Department of Energy or (b) an exemption from licensing requirements issued by the Commission, or a general or specific license issued by the Commission or a State with which the Commission has entered into an agreement under Section 274b of the Atomic Energy Act. Importers of special nuclear material under this General License shall provide advance notification of imports to the Commission as specified in 10 CFR 73.27.

"Person" in 10 CFR 110.2 is defined as: "any individual, corporation, partnership, firm, association, trust, estate, institution, group, Government agency other than the Commission (NRC) or, with respect to imports, the Department of Energy...."

The Department is exempt from the provisions of Part 110 of 10 CFR and exercises its own import controls through the Office of Nuclear Non-Proliferation Policy (IE-13). This office approves the import with the concurrence of the Office of Security Affairs (DP-323.1) after a noninimical determination, if required.

DOE imports of special nuclear materials (SNM), source, or byproduct materials as a government-to-government shipment require the authorization of IE-13 on Form MB#4 shown as Figure 23. This form must be presented to Customs at the port of entry with the other entry documents, or Customs will frustrate the shipment until some authority for entry is produced.

Form MB#4 may be executed by a field office, a DOE contractor as directed, or by the foreign exporter and submitted to IE-13 for approval after coordinating the details with each other. If DOE-owned material, the control number will be the foreign contract number that was assigned when the material was exported. After the approved Form MB#4 has been distributed to the parties by IE-13, contract negotiations can be finalized. If foreign-owned material, the contract should state disposition of the material upon completion of use.

Preparation and filing of entry documents and transportation arrangements from the port of entry are the responsibility of the receiving contractor. The contractor may deal directly with Customs or through a customshouse broker. Inland transportation is subject to those parts of 49 CFR referenced in Section 1.18 of this appendix.

Upon receipt, the receiving contractor shall execute a 741 Form (See DOE Order 5633.5, Nuclear Materials Reporting and Data Submission Procedures). Oak Ridge will enter the transaction into the International Nuclear Material Tracking System upon receipt of its copy.

2. EXPORTING FROM THE UNITED STATES

2.1 INTRODUCTION

The movement of goods internationally is quite complicated. Skills in international documentation and logistics are required to administer a successful program. Inexperienced personnel would be well advised to rely on the advice of a foreign freight forwarder until some expertise can be acquired through training and experience. Various organizations publish and sell guides that are helpful, such as:

- A Guide to Export Procedures.
- A Guide to Export Documentation (with sample documents).
- A Guide to International Shipping.
- A Reference Guide to the Export Administration Regulations. (Explains licensing and the commodity control list.)
- The Official Export Guide published by North American Publishing Company, 401 North Broad Street, Philadelphia, PA 19108.

DOE produces only a few commodities, which it markets commercially in international markets. Many of its exports are of nuclear equipment, materials, and related scientific instruments. These commodities are subject to the licensing requirements of both the NRC and the Department of Commerce for national security, nuclear nonproliferation, and foreign policy reasons. Defense related articles and technology are controlled by the Department of State (see Section 3.1.1 of this appendix). As a result, this section will cover commercial transactions only briefly. Traffic personnel will not be involved in all aspects of the export but should understand the overall procedures.

2.2 THE COMMERCIAL TRANSACTION

In a commercial transaction the seller offers a product at a given price to the buyer at some geographic location. In turn, the buyer agrees to purchase the product at the stated price and to take title at the point agreed upon. Each has certain responsibilities to carry out according to the terms of sale. Also see Section 1.15 of this appendix regarding foreign trade definitions. Depending upon the skills of the principals some responsibilities may be discharged by the principals and some may be contracted to a carrier or a foreign freight forwarder.

2.2.1 General Licenses

A "General License" is a broad grant of authority by the Federal government to all exporters for certain categories of commodities to all or most destinations. Most U.S. exports are shipped abroad under various general licenses, and no application is required for the use of these licenses except for general license GTE. If, after reviewing the Export Administration Regulations, the exporter determines that a validated license is not required, the exporter may ship under a general license. Several types of general licenses are shown below. A description of these and others may be found in 15 CFR 771.

- GCT General license for "a" level commodities to COCOM participating countries except those specifically excluded
- G-DEST General Destination (first choice)
- G-DR General license — Germany
- G-FW General license — free world
- GLR General license — return
- GLV General license — limited value
- GTE General license — temporary imports — requires specific approval for temporary import not exceeding 12 months

- G-COCOM** General license to COCOM participating countries
- GCG** General license to cooperating governments
- GTDA** General license — technical data to all destinations
- GTDR** General license — technical data under restriction.

2.3 ADMINISTRATIVE CONTROLS

The following regulations govern the exporting of nondefense, nonnuclear materials and equipment from the United States:

Title 15, Parts 700-799 "Export Administration Regulations," Bureau of Export Administration, Department of Commerce. Also Parts 768-799 are available as a looseleaf edition.

HSCH B, "Statistical Classification of Domestic and Foreign Commodities Exported from the United States."

2.4 QUOTATIONS AND PRO FORMA INVOICES

Only the seller can make a price quotation, which can be in many forms: telephone, cable, letter, or a pro forma invoice. In order to accumulate all of the charges that will be applicable to shipments to the buyer's country, the seller must develop the import requirements of that country. A consulate of the buyer's country is one source. Another is the Export Shipping Manual published by the Bureau of National Affairs, Inc. (BNA).

If the seller is making frequent quotations involving ocean freight, a quotation worksheet is recommended. See page 3-34.

If a Cost, Insurance, Freight (CIF) pro forma invoice is requested, it may be prepared on the firm's billhead. As each article is priced and extended, enter directly below the dimension of each package in centimeters or meters, then the cube of each package in meters and the weight in kilograms plus totals. Total the merchandise to a Free On Board (F.O.B.) origin price, then add international transportation, forwarders fees, and insurance to arrive at CIF destination price. If the article is to move via ocean freight, a breakdown of the elements that comprise the international freight total is necessary. Forwarding fees may be lumped as a total. Some countries require a certification in the language of that country. The pro forma invoice must be prepared with great care because the letter of credit, the purchase order, and the credit documents all will reflect the details contained in the pro forma invoice. When the commercial invoice is issued it should be an updated version of the pro forma invoice. It should reflect the actual shipping information plus package markings and other information supplied by the buyer such as the purchase order number, import license number, and dates.

2.5 INSTRUMENTS OF PAYMENT

See Section 1.16 for credit documents used in foreign trade. For exports the procedure would be the reverse of that shown for imports. Anyone dealing in drafts or letters of credit regularly should secure the following publications from the International Chamber of Commerce, 1212 Avenue of the Americas, New York, NY 10036:

- Publication No. 322, "Uniform Rules for Collections."
- Publication No. 400, "Uniform Customs and Practice for Documentary Credits."

Credit documents are not usually the province of traffic personnel except to the extent that they contain transportation information.

2.6 FOREIGN IMPORT LICENSES

Foreign countries control and license the importation of goods for several reasons: shortage of exchange dollars, protection of local industry, national security, and statistics for duty purposes. Some countries require the buyer to furnish a copy to the seller to be submitted to the consulate at the time the commercial or consulate invoices are visaed by the consulate (for a fee). Others require only that the license number and date be entered on the commercial invoice. Still others have no requirement other than issuance of the license to the buyer.

2.6.1 Import and End-Use Certificates

Refer to 15 CFR 775 for destinations requiring International Import Certificates and End-Use Certificates to be furnished by the importing country and Delivery Verification Certificates to be secured by the exporter.

2.6.2 Letters of Assurance

When exporting technical data, review 15 CFR 779 concerning the restrictions on licensing of technical data (including software) and specifically the requirement for a letter of assurance from the foreign importer that he/she will not knowingly re-export or otherwise disclose, directly or indirectly to certain country groups, any software or other technical data received from the exporter.

2.7 THE COMMERCIAL INVOICES

The commercial invoice is the final statement of the agreement between the seller and buyer. In the course of the transaction it will be examined by everyone party to the transportation and payment of the goods.

- The carrier or international freight forwarder.
- The consulate of the buyer's country if required.
- The seller's bank if not sold on open account.
- The Customs officer in the buyer's country.
- The buyer's bank.
- The import broker.
- The insurance company in event of loss.

If the seller does not make the agreement explicit on the commercial invoice, each of the above is free to make its own interpretation, not always in favor of the seller.

A common error that occurs on computer-created invoices is to designate the "ship to" address as that of the international carrier or freight forwarder, neither of whom performs as the buyer's agent. The "ship to" address is the same as the consignee on the international bill of lading, which is usually the foreign bank or to order of the shipper.

2.8 FOREIGN CUSTOMS INVOICES

Some countries including Canada (Figure 24) require a customs invoice for use by foreign Customs officers. Standard Customs invoices are available at many stationers specializing in transportation forms and are not difficult to fill out. Customs invoices must be included with other entry documents.

2.9 CONSULAR INVOICES

The consular invoice can usually be purchased from the resident consulate. It usually must be submitted to the consulate for legalization or visa upon shipment. Latin American countries are the most frequent users of consular invoices. Consular invoices must be included with the other entry documents.

2.10 SHIPPER'S LETTER OF INSTRUCTIONS

There are many forms of the shipper's letter of instruction. The freight forwarder may supply forms or the forms may be purchased from stationers specializing in transportation forms. There are several types: air direct, ocean containerization, and ocean pier to pier. The letter of instruction should state:

- The name of the ultimate consignee.

- The name of the intermediate consignee, such as the foreign bank.
- The number of pieces, the type packaging, and the description of the goods in HSCH B vernacular, the gross weight and dollar value by HSCH B number.
- The port marks to appear on packages or containers.
- U.S. license specifications, general (15 CFR 771), or Specific (15 CFR 772-775).
- List of documents that accompany the letter.
- Freight prepaid or collect.
- Special instructions concerning completion and distribution of documents.

2.11 SHIPPER'S EXPORT DECLARATION

The Shipper's Export Declaration (SED), Department of Commerce Form 7525-V, is required for:

- Shipments from the United States exceeding \$2,500 in value [15 CFR 786.1(c)(2)]; mail exceeding \$500 [15 CFR 786.3(f)(2)]. The \$2,500 exemption does not apply to shipments requiring (1) a DOC export license, (2) a DOS, Office of Defense Controls export license under the International Traffic in Arms Regulations (ITAR), 22 CFR 121-130, (3) those subject to ITAR but exempt from licensing, or (4) a Department of Justice, Drug Enforcement Administration export permit, 21 CFR 1312.
- All shipments of controlled commodities regardless of value (15 CFR 799).
- Cargo destined to restricted countries (15 CFR 785).

The SED functions both as a census for the statistics on exported commodities and as a regulatory document to control commodities for foreign policy, national security, nuclear nonproliferation, and short-supply reasons. See 15 CFR 786.3 for details. The SED is reproduced as Figure 25 together with instructions for completion. Once the SED is completed it is submitted with the air waybill or the ocean bill of lading to the carrier. The carrier attaches three copies of the SED to the manifest of the aircraft or vessel and submits them to U.S. Customs.

2.12 BOOKING THE SHIPMENT

As soon as an actual shipping date can be established the shipment should be booked with the international carrier as far in advance as possible, especially if the movement is to be on a vessel. The letter of credit could expire while waiting for another ship if the planned ship date is missed. Shipments can be booked through the freight forwarder or direct with the carrier.

2.13 INTERNATIONAL SHIPPING DOCUMENTS

International air waybills differ from ocean bills of lading in that the air waybill is nonnegotiable. If consigned to the buyer, the buyer can take possession of the goods without paying the draft. An alternative is to consign the shipment to the buyer's bank and send the draft with the original air waybill and other entry documents to the bank for collection. Ocean bills of lading may be consigned either to the order of the shipper or foreign bank and title to the goods transferred by endorsement after the draft has been satisfied.

3. U.S. EXPORT CONTROL AGENCIES

3.1 TYPES OF EXPORTS CONTROLLED BY THE AGENCIES**

<u>Agency</u>	<u>Commodity or Service</u>	<u>Control Mechanism</u>	<u>Advisory Agencies</u>
DOC	General merchandise	General License	Treasury
DOC	All dual-use commodities and technology**	Validated License	DOS, DOD, DOE, Treasury
DOS	Defense articles and services (OMC); Dual-use commodities (COCOM)	Validated License	DOC, DOD, DOE
NRC	Nuclear equipment and materials	Validated License	DOS, DOD, DOE, DOC, ACDA
DOE	Nuclear materials, equipment, technology; subsequent arrangements government-to-government; foreign nuclear activities	Validated License or Noninimicality Determination	DOS, DOD, NRC, DOC, ACDA

DOC-Department of Commerce
DOS-Department of State
DOE-Department of Energy
DOD-Department of Defense
NRC-Nuclear Regulatory Commission
ACDA-Arms Control and Disarmament Agency

** Except for a small number of items licensed by other agencies that are not relevant here (e.g., alcohol, tobacco, and firearms under Treasury).

3.1.1 Regulatory Relationship Between the Agencies

The Arms Export Control Act (AECA) authorizes controls primarily on exports that are deemed to be inherently military in character or were specially designed, modified or engineered for military applications. The AECA authorizes the control of exports of "defense articles and defense services to further world peace and the security and foreign policy of the U.S...." The State Department controls these defense articles and services under the International Traffic in Arms Regulations (ITAR), 22 CFR 120 et seq.

The Office of Munitions Control (OMC) in the State Department determines which articles and services are deemed to be defense-related and lists them on the U.S. Munitions List, 22 CFR 121.1. Items on this list are regulated solely under ITAR.

Generally, NRC and DOE regulations take precedence over ITAR in the export of nuclear materials, services, and equipment; but the ITAR will take precedence over the Export Administration Regulations (EAR) in the export of defense articles, related technical data, and defense services.

Most exports of commodities and technical data not controlled under ITAR are controlled under the EAR, 15 CFR 769 et seq. as authorized by the Export Administration Act of 1979. These regulations are administered by the Office of Export Licensing (OEL), Bureau of Export Administration (BXA), and the U.S. Department of Commerce. A license under these regulations is required prior to exporting an EAR controlled commodity or technical data out of the U.S.

The regulatory relationship between the Department of Commerce's Bureau of Export Administration (BXA) and the Department of the Treasury's Office of Foreign Assets Control (OFAC) can be confusing for exporters to understand. OFAC is the office primarily responsible for implementing broad economic sanctions against specific countries. OFAC controls participation by U.S. persons, including foreign subsidiaries in transactions, including imports and exports, with specific countries or nationals of such countries. By contrast, BXA controls exports and re-exports of U.S. origin items whether made by a U.S. or foreign person. Since both agencies possess export licensing authority, some jurisdictional overlap

exists. While an export license authorized by BXA is recognized by OFAC and OFAC sometimes defers to BXA, exporters or importers contemplating transactions with embargoed or restricted countries should contact OFAC for advice at (202) 376-0392 in case an OFAC license will also be needed. Review also 31 CFR 500-565 "Foreign Assets Control Regulations." OFAC's statutory authorities are (1) Trading With the Enemy Act of 1917, (2) the International Emergency Economic Powers Act of 1977, (3) the Comprehensive Anti-Apartheid Act of 1986, and (4) the International Security and Development Act of 1985.

DOE regulations in 10 CFR 810 "Assistance to Foreign Atomic Energy Activities" implement Section 57b of the Atomic Energy Act, which empowers the Secretary of Energy to authorize U.S. persons to engage directly or indirectly in the export of "sensitive nuclear technology" for the production of SNM outside the U.S. "Sensitive nuclear technology" embraces a full range of technologies pertinent to nuclear proliferation and national defense. These technologies can include models, prototypes, operational manuals, and technical services. See the congressionally mandated Militarily Critical Technologies List and the DOE Nuclear Technology Reference Book, both of which are classified.

3.2 NUCLEAR-RELATED EXPORTS

All requests for the export of source materials and special nuclear materials must include a statement, signed on behalf of the recipient nation or group of nations involved, that the proposed export will be subject to the terms and conditions of the appropriate Agreement for Cooperation, and must give the end-use of the nuclear material(s). See Figure 30 for an example of such a statement.

All incoming requests for export to South Africa of stable isotopes, radioisotopes, or materials listed in Section 4.1 of this appendix by DOE or its integrated contractors shall be referred to the DOE Office of Nuclear Non-Proliferation Policy (IE-13).

All requests for export of the nuclear materials specified in Section 4.1 must be referred to IE-13 regardless of the proposed destination.

4. EXPORT OF NUCLEAR MATERIALS BY DOE

4.1 NUCLEAR MATERIAL DEFINED

The DOE Office of Safeguards and Security designates the nuclear materials to be reported to the Nuclear Materials Management and Safeguards System (NMMSS), administered by the Oak Ridge Operations Office. Export of the following nuclear materials must be reported to the NMMSS International Nuclear Materials Tracking System (INMTS):

Special Nuclear Material

Plutonium
Plutonium-238
Plutonium-242
Enriched Uranium
Uranium-233

Byproduct Material

Americium-241
Americium-243
Berkelium
Californium-252
Curium
Neptunium-237
Tritium

Source Material

Normal Uranium
Depleted Uranium
Thorium

Other Material

Deuterium
Enriched Lithium-6

Exports of other byproduct materials (e.g., polonium-210) are not reported to NMMSS/INMTS.

In addition to the nuclear materials identified above, nuclear-grade graphite and nuclear equipment are also under export control.

4.2 ADMINISTRATIVE CONTROLS - NUCLEAR MATERIALS

Export of nuclear materials from the United States is controlled by the following statutes and regulations:

- Atomic Energy Act of 1954 as amended. See 15 CFR 770.10(e).
- Nuclear Non-Proliferation Act of 1978 as administered by the Departments of State, Energy, and Commerce. This Act is implemented in 15 CFR 778, "Special Nuclear Controls."
- Export Administration Act of 1979 as amended.
- 10 CFR 110, "Export and Import of Nuclear Equipment and Material," NRC.
- 10 CFR 810, "Assistance to Foreign Atomic Energy Activities."
- 15 CFR 700-799, "Export Administration Regulations." Bureau of Export Administration, Department of Commerce. Parts 768-799 are also available in a looseleaf edition.

- HSCH B, "Statistical Classification of Domestic and Foreign Commodities Exported from the United States."
- Amendment to Procedures Established Pursuant to the Nuclear Non-Proliferation Act of 1978, Federal Register, Vol. 49, No. 96, May 10, 1984, pages 20780-20786, amended by Vol. 58, No. 33, February 19, 1991, page 6791.
- DOE Order 5633.5, Nuclear Materials Reporting and Data Submission Procedures.

4.3 PACKAGING AND TRANSPORT REGULATIONS

Effective January 1, 1991, all international shipments of hazardous materials by air or water must comply with the UN packaging recommendations for non-bulk commodities:

- IATA Restricted Articles Regulation published by the International Air Transport Association of Quebec, Canada.
- Regulations for the Safe Transportation of Radioactive Materials, Safety Series 6, issued by the International Atomic Energy Agency (IAEA) of Vienna, Austria. See 49 CFR 171.12 for authority to use IAEA regulations to the port.
- Technical instructions for the Safe Transport of Dangerous Goods by Air, approved and published by the International Civil Aviation Organization (ICAO) of Montreal, Quebec, Canada. See 49 CFR 171.11 for authority to use ICAO Regulations, with certain exceptions for inland transportation to the port.
- International Maritime Dangerous Goods Code, 1988, as amended, published by the International Maritime Organization of London, England, for exports by sea.
- Transportation of Dangerous Goods issued by the government of Canada. See 49 CFR 171.12a.

See also DOE 5480.3A Chapter VI for approvals, certificates of Competent Authority, DOT validation of foreign packages, special form certifications, and notifications necessary to ship.

4.4 GENERAL DOE/NRC EXPORT CONTROLS

Export of DOE nuclear material as a government-to-government shipment under a U.S. Agreement for Cooperation with a foreign country requires two or more of the following controls according to the type and quantity to be exported:

- DOE Office of Nuclear Non-Proliferation Policy, IE-13 approves shipment.
- DOE Office of Security Affairs, DP-323.1 concurs in approval upon a noninimicality determination.
- NRC specific export license.
- NRC General License (applicability determined by DOE IE-13).
- Tracking by the INMTS, administered by Martin Marietta Energy Systems, Inc., Oak Ridge, TN. (See Section 4.1 of this appendix.)

Field organizations must seek and obtain DOE IE-13 approval prior to contract negotiations with foreign entities that involve, by any means whatsoever, the distribution of one (1) kilogram quantity or greater of the following materials: uranium enriched in U-235 to 20% or greater, plutonium, U-233, or heavy water.

All requests for Government distributions (also known as government-to-government shipments) for source, special nuclear, byproduct material, or heavy water, except those involving byproduct material, which are under a General License for export by NRC under 10 CFR 110.23, must be submitted to DOE IE-13 for approval.

DOE export of tritium in quantities greater than 37 TBq (1,000 curies) or lithium-6 in quantities greater than 500 grams to any country must be referred to DOE IE-13 for approval prior to execution of a contract. DP-323.1 must also make a finding of noninimicality.

4.4.1 NRC General Licenses (DOE IE-13 Authorized)

A General License (blanket permission) is issued to DOE and its contractors by NRC to export certain quantities of material that fall within the provisions of 10 CFR:

- 110.21 "Export of Special Nuclear Materials."
- 110.22 "Export of Source Material."
- 110.23 "Export of Byproduct Material."
- 110.24 "Export of Deuterium."
- 110.25 "Export of Nuclear Grade Graphite."
- 110.26 "Export of Nuclear Reactor Components."

Embargoed destinations are Cuba, Kampuchea, North Korea, and Vietnam (110.28). Restricted destinations are listed in 10 CFR 110.29.

Field offices and contractors may not export nuclear materials in any quantity under a General License without a determination from DOE IE-13 that a General License does apply. In some instances concurrence by DOE DP-323.1 is required. Byproduct material with atomic numbers 3 to 83 are exempted and may be shipped under General License without DOE IE-13 approval.

4.4.2 NRC Export Licensed Shipment

Both an NRC license and DOE IE-13 authorization are required to export quantities of SNM and source materials that exceed the General License limits listed in 10 CFR 110.21 and 110.22. Byproduct material does not require an export license when exported by DOE. Field organizations may delegate the responsibility to the contractor for filing an application directly with NRC. Application must be made on Form NRC-7 (Figure 26) according to instructions shown in Appendix IX, 10 CFR 110.

NRC will return the approved license to the applicant with eight conditions to be followed (Figure 27). When the contractor is the applicant, distribution of copies is made by local procedure and may include:

- Operations Office Nuclear Materials Management Coordinator, Traffic Manager, and program office.
- Contractor's program office.
- DOE-HQ IE-13.
- INMTS.
- DOE-HQ Program Sponsor or NRC Program Sponsor.

Upon shipment, the contractor completes the SED and Form 741, referencing both the foreign contract number and the NRC license number as follows:

	<u>SED</u>	<u>FORM 741</u>
Foreign contract number	Block 14	Block 15
NRC License	Block 21	Block 16

In addition to normal distribution, a copy of the 741 Form should be sent to Martin Marietta Energy Systems, Inc., in Oak Ridge for entry into INMTS.

The contractor should complete the appropriate shipping documents, attach the SED and other appropriate supporting papers, and release the shipment. If one shipment completes the NRC license, the original copy may be included with the shipping papers. Customs will return the license to NRC; otherwise, a copy may be included and the original returned to NRC after the last shipment has been made.

4.4.3 Exports Not Requiring a License

For a government-to-government export approved by DOE IE-13 that does not require a validated license from NRC according to 10 CFR 110, the SED becomes the control document for INMTS. A special SED number must be assigned. The SED should be prepared in the same manner as for a licensed shipment except that "Exempt 10 CFR 110.1" or other appropriate entry should be entered in Block 21 as the authority to export. In addition, an SED continuation sheet should be prepared as shown on the next page.

4.5 INTERNATIONAL NUCLEAR MATERIAL TRACKING SYSTEM

Tracking of nuclear material exports is done using INMTS, which is operated by Martin Marietta Energy Systems, Inc., at Oak Ridge. Information is furnished by field installations through copies of material supply contracts, export licenses, Shipper's Export Declarations, and Form 741. Foreign entities report movement from one Agreement for Cooperation entity to another on Forms SER 1 or DOE F-5660.2 and SER 2. See 10 CFR 110.6 "Retransfers."

The initial data entry is from the application for a foreign contract number from field offices, later updated from a copy of the executed contract.

For shipment control purposes, Oak Ridge uses the specific export license number, a General License notation, a special Shipper's Export Declaration number (government-to-government) or the term "LIC-EXEMPT." Each field office maintains its own series of Shipper's Export Declaration numbers using the first two letters of the RIS symbol for identification. Albuquerque, for example, should be SED-AA-1. Assignment of numbers may be delegated to the contractor.

For additional information, see "Data Collection Procedures, International Nuclear Material Tracking System," Oak Ridge Operations, which is reproduced as Appendix VII.

4.6 DEPARTMENT OF COMMERCE LICENSES

The Bureau of Export Administration within the DOC maintains a Commodity Control List (CCL), which includes all commodities subject to DOC controls but does not include those commodities exclusively controlled by other Government agencies such as NRC and DOE.

1. **Certification Statement.**

I certify that the shipment described in this Shipper's Export Declaration as a government-to-government shipment, which does not require a validated license from the Nuclear Regulatory Commission.

(Signature)

*Name:

Date

Title:

Organization:

(The best signator of this document is that of an officer in the Operations Office having jurisdiction.)

*This information should be typed or printed on the SED.

(See INMTS Data Collection Procedures for the following:)

2. **Special SED number.**

3. **Foreign contract number assigned by INMTS.**

4. **Nuclear material (NM) description:**

Physical form
Chemical form
Material type (in code)
NM element weight
Isotope weight percent
Isotope weight
NM compound weight (if available)
Hardware and/or instrumentation

5. **End-use statement.**

6. **Final disposition of the material upon completion of use at the foreign site.**

7. **Shipped for DOE by _____ (enter contractor's name)**

There are 10 general categories as follows:

<u>Commodity Group Number</u>	<u>Commodity Groups</u>
0	Metal-working machinery
1	Chemical and petroleum equipment
2	Electrical and power-generating equipment
3	General industrial equipment
4	Transportation equipment
5	Electronics and precision equipment
6	Metals, minerals, and their manufactures
7	Chemical, metalloids, petroleum products, and related materials
8	Rubber and rubber products
9	Miscellaneous

Each individual entry is preceded by a four-digit Export Control Commodity Number (ECCN) and a code letter. The first digit relates to the strategic level of control, the second is the Commodity Group Number, and the next two digits identify related commodities in numerical order within a group. The letter suffix identifies the country groups for which a validated license is required.

Countries are grouped by letter designation in Supplement 1 to 15, CFR 770. For example "S" is Libya, "Z" is North Korea, Vietnam, Cambodia, and Cuba, all of which are embargoed. Canada has no letter designation and is referred to by "name" in the regulations.

Each ECCN entry contains the following information:

- Unit report in dollar value.
- Validated license required by country groups.
- GLV dollar value limit on low-value shipments by countries.
- Processing code (two letters) required on license application.
- Reason for control.
- Special licenses available.
- Special controls (when applicable).

Some examples of controlled commodities by groups are:

Group 2-ECCN 3261A	"Neutron generating systems."
Group 3-ECCN 4360A 4363B	Centrifugal balancing machines. Nuclear power plant related equipment.
Group 5-ECCN 1522A 4530-B UF 1564A 1565A	Lasers and laser systems. 6 mass spectrometers. Printed circuit board, substrates, and microcircuits. Electronic computers.
Group 6-ECCN 3670A 36988B	Lithium enriched in the 6 isotope. Depleted uranium as shielding.
Group 7-1715A Boron; 1754A	Fluorocarbon compounds.

Contractors who export scientific equipment, nonnuclear materials, and equipment related to nuclear work, and dual-use equipment or technology should review 10 CFR 810, 15 CFR 778.3, and 15 CFR 799 before making a shipment. If unable to find the proper entry, the contractor may consult with the Exporters' Service Staff, Bureau of Export Administration, Department of Commerce, Washington, DC, or the Chief of Export Control, DP-323.1, U.S. Department of Energy, Washington, DC 20585.

If the export consists of equipment or a device containing nuclear material, the equipment or device would require a DOC license, while the contained nuclear material would require an NRC license. Exports of nuclear-related technology may require both a DOC license and a DOE 10 CFR 810 non-inimicality determination.

Applications for a DOC license, Form BXA 628P (Figure 28), must be made on Form BXA 622P (Figure 29). It should be filed directly with DOC with a copy to DP-323.1 for advance notice and review. This procedure will provide DP-323.1 some insight into the export activities of the various program offices and assist in directing any concerns or inquiries that may arise from other agencies to the appropriate DOE office. 15 CFR 778, Supplement 1 for "Procedures Established Pursuant to the Nuclear Non-Proliferation Act of 1978," contains procedures for considering the application and resolving disputes. A 1991 amendment to the Act restricts consideration by the Subgroup on Nuclear Export Coordination (SNEC) to 90 days for approval or rejection. See the Forms Supplement, pages 3-35, to the Export Administration Regulations for a facsimile of a completed Form BXA 622P and other BXA or ITA forms that might apply to a particular export.

4.7 CANADIAN CUSTOMS DUTIES AND EXCISE TAXES

Nuclear materials and related equipment shipped to Canada for experimental purposes under a joint agreement for cooperation are exempt from Canadian Customs duties and taxes. Attach the following certification to the Canadian Customs Invoice (Figure 24):

"I hereby certify that the articles or goods herein described are or will become the property of the Government of the United States of America and are to be used solely and exclusively in joint Canada-United States projects or United States Government establishments in Canada and are exempt from Customs duties and excise taxes." In accordance with ORDER-IN-COUNCIL P.C. 1960-1600.

Project or Contract Identification

Exporter
For the U.S. Department of Energy

**DATE
FILMED**

7/25/94

END