

Table of Contents

| | |
|--|------|
| 1.0 Executive Summary | 1-1 |
| 1.1 General Survey | 1-1 |
| 1.2 Environmental Justice Perspectives..... | 1-3 |
| 1.3 Land Resources Perspectives..... | 1-5 |
| 1.4 Perspectives of Freight Stakeholders..... | 1-7 |
| 2.0 General Survey | 2-1 |
| Research Summary | 2-2 |
| Significant Findings..... | 2-11 |
| Travel Behavior and Usage of INDOT Facilities..... | 2-15 |
| How Important Are Various Aspects of a State Transportation Agency’s Role to You? | 2-24 |
| Customers’ View of INDOT Priorities | 2-33 |
| INDOT Services – Importance and Satisfaction | 2-42 |
| Attitudes Towards INDOT – Awareness and Image | 2-52 |
| Recent Experiences with INDOT Highway Facilities | 2-59 |
| Demographics of Survey Participants | 2-61 |
| 3.0 Environmental Justice Perspectives | 3-1 |
| 3.1 Background | 3-1 |
| 3.2 Objectives | 3-2 |
| 3.3 Changing Demographics of Sensitive Population Groups in Indiana | 3-3 |
| 3.4 Environmental Justice Analysis of Census Journey to Work Data | 3-32 |
| 3.5 Analysis of General Survey Responses from an Environmental Justice Perspective..... | 3-67 |
| 3.6 Interviews..... | 3-76 |
| 3.7 Potential Actions | 3-81 |
| 4.0 Perspectives on Land Resources | 4-1 |
| 4.1 Introduction | 4-1 |
| 4.2 Interview Findings..... | 4-2 |
| 4.3 Examples of Coordinated Transportation and Land Use Planning..... | 4-18 |
| 4.4 General Findings on Land Resource Issues in Indiana..... | 4-20 |
| 4.5 Potential INDOT Actions Recommended by Interviewees | 4-20 |
| 5.0 Perspective of Freight Stakeholders | 5-1 |
| 5.1 Introduction | 5-1 |
| 5.2 Background | 5-1 |
| 5.3 Major Industry Logistics Patterns..... | 5-12 |
| 5.4 Feedback from Freight Stakeholders..... | 5-17 |
| 5.5 Recommended Next Steps Related to Freight..... | 5-22 |

Table of Contents

(continued)

| | |
|---|------------|
| 6.0 Market Research Implications for Policy Plan | 6-1 |
| 6.1 General Market Research..... | 6-1 |
| 6.2 Environmental Justice..... | 6-2 |
| 6.3 Land Resources..... | 6-4 |
| 6.4 Freight..... | 6-5 |

Appendices (Separately Bound)

- A. Focus Group Report
- B. Phone Survey Instrument
- C. Summary of General Market Research Responses
- D. General Market Research – Transcripts of Open-Ended Responses
- E. Experience of Other States and Regions in Incorporating
Land Resource Considerations into Transportation Planning
- F. Freight Interview Guides
- G. Markup of Policy Plan

List of Tables

| | | |
|------|---|------|
| 3.1 | Indiana Statewide Population Summary (1990 and 2000)..... | 3-4 |
| 3.2 | Total Population of Indiana’s 10 Largest Cities | 3-5 |
| 3.3 | White Population of Indiana’s 10 Largest Cities..... | 3-6 |
| 3.4 | Black Population of Indiana’s 10 Largest Cities..... | 3-9 |
| 3.5 | Other Population of Indiana’s 10 Largest Cities | 3-17 |
| 3.6 | Hispanic Population of Indiana’s 10 Largest Cities..... | 3-18 |
| 3.7 | Population in Poverty of Indiana’s 10 Largest Cities | 3-22 |
| 3.8 | Vehicle Availability and Poverty Status for All of Indiana | 3-37 |
| 3.9 | Vehicle Availability and Poverty Status for Central Indiana Counties | 3-38 |
| 3.10 | Vehicle Availability and Poverty Status for Non-Central Indiana Counties | 3-38 |
| 3.11 | Vehicle Availability and Poverty Status for High-Poverty Concentration Counties | 3-41 |
| 3.12 | Vehicle Availability and Poverty Status for Low-Poverty Concentration Counties | 3-41 |
| 3.13 | Vehicle Availability and Poverty Status for High-Minority Concentration Counties | 3-42 |
| 3.14 | Vehicle Availability and Poverty Status for Low-Minority Concentration Counties | 3-42 |
| 3.15 | Mode Choice and Race for Indiana..... | 3-46 |
| 3.16 | Mode Choice and Race for Central Indiana Counties | 3-49 |
| 3.17 | Mode Choice and Race for Non-Central Indiana Counties..... | 3-49 |
| 3.18 | Mode Choice and Race for High-Poverty Concentration Counties | 3-52 |
| 3.19 | Mode Choice and Race for Low-Poverty Concentration Counties | 3-52 |

List of Tables (continued)

| | | |
|------|--|------|
| 3.20 | Mode Choice and Race for High-Minority Concentration Counties..... | 3-55 |
| 3.21 | Mode Choice and Race for Low-Minority Concentration Counties..... | 3-55 |
| 3.22 | Mode Choice and Poverty Status for Indiana..... | 3-57 |
| 3.23 | Mode Choice and Poverty Status for Central Indiana..... | 3-57 |
| 3.24 | Mode Choice and Poverty Status for Non-Central Indiana | 3-58 |
| 3.25 | Mode Choice and Poverty Status for High-Minority Concentration Counties ... | 3-58 |
| 3.26 | Mode Choice and Poverty Status for Low-Minority Concentration Counties | 3-59 |
| 3.27 | Mode Choice and Poverty Status for High-Poverty Concentration Counties | 3-61 |
| 3.28 | Mode Choice and Poverty Status for Low-Poverty Concentration Counties | 3-62 |
| 3.29 | County Travel Times (Minutes) by Race and Maximum and Mean Travel Time within County | 3-65 |
| 3.30 | Cross-Tabulation of Household Income and Race | 3-68 |
| 3.31 | Cross-Tabulation of EJ Classification and Presence of Workers in Household... | 3-69 |
| 3.32 | Cross-Tabulation of EJ Classification and Miles Traveled by Household in Past 12 Months | 3-69 |

List of Figures

| | | |
|------|--|------|
| 3.1 | 1990 County Segregation Index..... | 3-7 |
| 3.2 | 2000 County Segregation Index..... | 3-8 |
| 3.3 | 1990 County..... | 3-10 |
| 3.4 | 2000 County..... | 3-11 |
| 3.5 | 1990 Block Group – Black Population..... | 3-12 |
| 3.6 | 2000 Block Group – Black Population..... | 3-13 |
| 3.7 | 1990 Block Group – Black Population (Northwest Indiana)..... | 3-14 |
| 3.8 | 2000 Block Group – Black Population (Northwest Indiana)..... | 3-15 |
| 3.9 | 1990 County Segregation Index..... | 3-20 |
| 3.10 | 2000 County Segregation Index..... | 3-21 |
| 3.11 | 1990 Block Group – Below Poverty..... | 3-23 |
| 3.12 | 2000 Block Group – Below Poverty..... | 3-24 |
| 3.13 | 1990 Block Group – Below Poverty (Northwest Indiana)..... | 3-25 |
| 3.14 | 2000 Block Group – Below Poverty (Northwest Indiana)..... | 3-26 |
| 3.15 | 2000 Block Group (No Vehicle Available)..... | 3-28 |
| 3.16 | 2000 County (Percent No Vehicle)..... | 3-29 |
| 3.17 | Central Indiana Counties..... | 3-33 |
| 3.18 | Counties of High-Poverty Concentration..... | 3-34 |
| 3.19 | Counties of High-Minority Concentration..... | 3-35 |
| 3.20 | Statewide Vehicle Availability..... | 3-36 |
| 3.21 | Vehicle Availability for All of Indiana by Poverty Status..... | 3-37 |
| 3.22 | Vehicle Availability for Central Indiana Counties by Poverty Status..... | 3-39 |

List of Figures (continued)

| | | |
|------|---|------|
| 3.23 | Vehicle Availability for Non-Central Indiana Counties by Poverty Status | 3-39 |
| 3.24 | Vehicle Availability for High-Poverty Concentration Counties by Poverty Status | 3-40 |
| 3.25 | Vehicle Availability for Low-Poverty Concentration Counties by Poverty Status | 3-40 |
| 3.26 | Vehicle Availability for High-Minority Concentration Counties by Poverty Status | 3-43 |
| 3.27 | Vehicle Availability for Low-Minority Concentration Counties by Poverty Status | 3-43 |
| 3.28 | Statewide Mode Choice | 3-44 |
| 3.29 | Mode Choice for All of Indiana by Race | 3-45 |
| 3.30 | Mode Choice for Central Indiana Counties by Race | 3-47 |
| 3.31 | Mode Choice for Non-Central Indiana Counties by Race | 3-48 |
| 3.32 | Mode Choice for High-Poverty Concentration Counties by Race..... | 3-50 |
| 3.33 | Mode Choice for Low-Poverty Concentration Counties by Race..... | 3-51 |
| 3.34 | Mode Choice for High-Minority Concentration Counties by Race..... | 3-53 |
| 3.35 | Mode Choice for Low-Minority Concentration Counties by Race | 3-54 |
| 3.36 | Mode Choice for All of Indiana by Poverty Status | 3-56 |
| 3.37 | Mode Choice for Central Indiana by Poverty Status..... | 3-59 |
| 3.38 | Mode Choice for Non-Central Indiana by Poverty Status..... | 3-60 |
| 3.39 | Mode Choice for High-Minority Concentration Counties by Poverty Status..... | 3-60 |
| 3.40 | Mode Choice for Low-Minority Concentration Counties by Poverty Status..... | 3-61 |
| 3.41 | Mode Choice for High-Poverty Concentration Counties by Poverty Status | 3-62 |
| 3.42 | Mode Choice for Low-Poverty Concentration Counties by Poverty Status..... | 3-63 |

List of Figures (continued)

| | | |
|------|--|------|
| 3.43 | Average Travel Times by Race for Each County..... | 3-64 |
| 3.44 | Differences in EJ and Non-EJ Importance Ratings..... | 3-71 |
| 5.1 | Growth in Freight Movements by Mode..... | 5-3 |
| 5.2 | National Freight-Truck Traffic..... | 5-4 |
| 5.3 | National Freight-Rail Traffic | 5-5 |
| 5.4 | Indiana’s Major Roadways and Airports..... | 5-6 |
| 5.5 | Indiana Rail Lines and major Intermodal Terminals..... | 5-8 |
| 5.6 | A Representative Grain and Feed Logistics Pattern in Indiana | 5-12 |
| 5.7 | A Representative Manufacturing Logistics Pattern in Indiana..... | 5-14 |
| 5.8 | A Representative Mining/Quarrying Logistics Pattern in Indiana | 5-15 |
| 5.9 | A Representative Retail Logistics Pattern in Indiana | 5-16 |
| 5.10 | Major Metropolitan Areas within a One-Day Delivery Radius of Indiana | 5-18 |