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Statewide Transportation Analysis & Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM

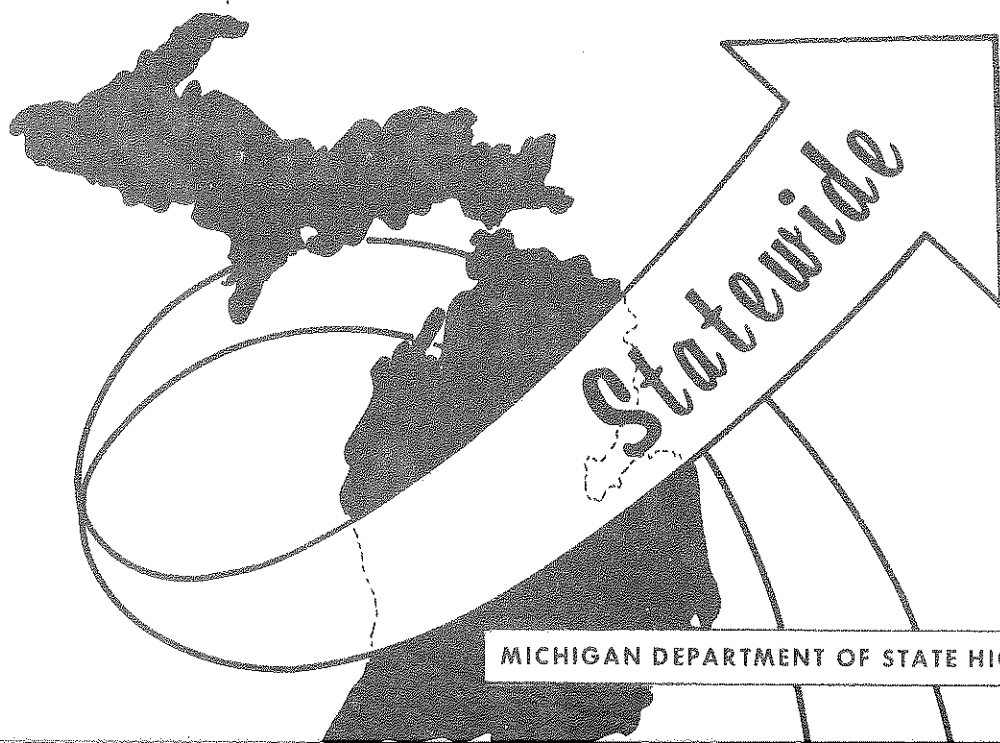
VOLUME XIV B

COMMODITY FLOW MATRIX

PENN CENTRAL RAILROAD

STATEWIDE TRANSPORTATION
PLANNING PROCEDURES

JULY, 1975



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

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OF

STATE HIGHWAYS AND TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING

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DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

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JOHN P. WOODFORD, DIRECTOR

July 29, 1975

Mr. Sam F. Cryderman
Deputy Director
Bureau of Transportation Planning
Department of State Highways
and Transportation

Dear Mr. Cryderman:

The Highway Planning Division is pleased to present Volume XIV-B in the Statewide Transportation Modeling System Series. It documents an important addition to Michigan's planning data base: railroad commodity flow information.

The basic ingredient of transportation planning is the origin-destination survey. This report presents commodity O-D data for the Penn Central Railroad, summarized into a matrix of zone-to-zone flows. The zones used are those of Michigan's Statewide Transportation Modeling System. Thus, the potential has been created for railroad planning and analysis based on reliable O-D information, using the extensive capabilities of the Statewide System, which insures compatibility with previous and future highway and other-modal analyses performed on the Statewide System.

This report was prepared by Mr. Lawrence G. Scott of the Statewide Transportation Planning Procedures Section, under the supervision of Mr. Richard E. Esch.

Sincerely,

A handwritten signature in cursive script that reads "R. J. Lilly".

R. J. Lilly, Administrator
Highway Planning Division



COMMODITY FLOW MATRIX

PENN CENTRAL RAILROAD

By Lawrence G. Scott

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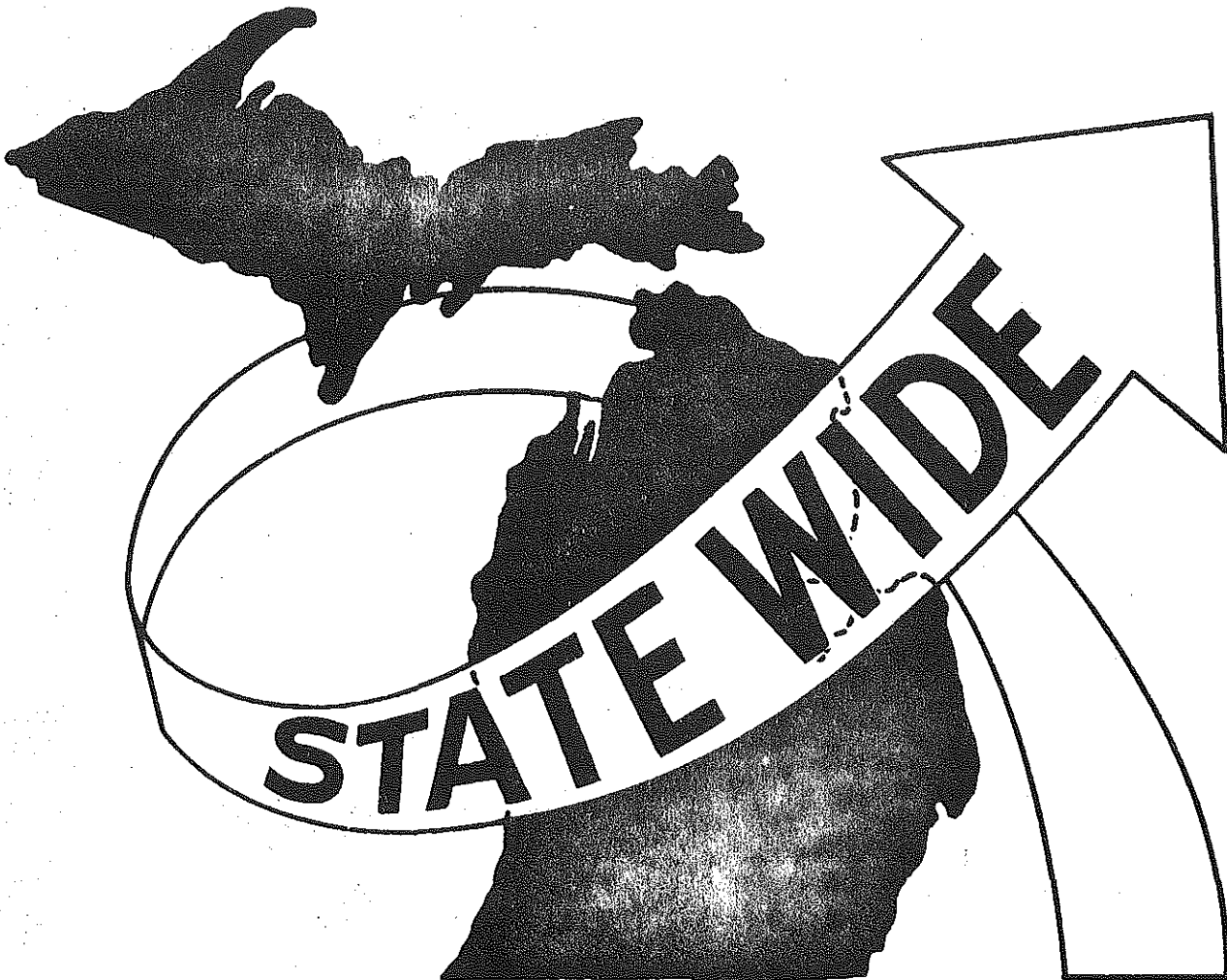
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PREFACE



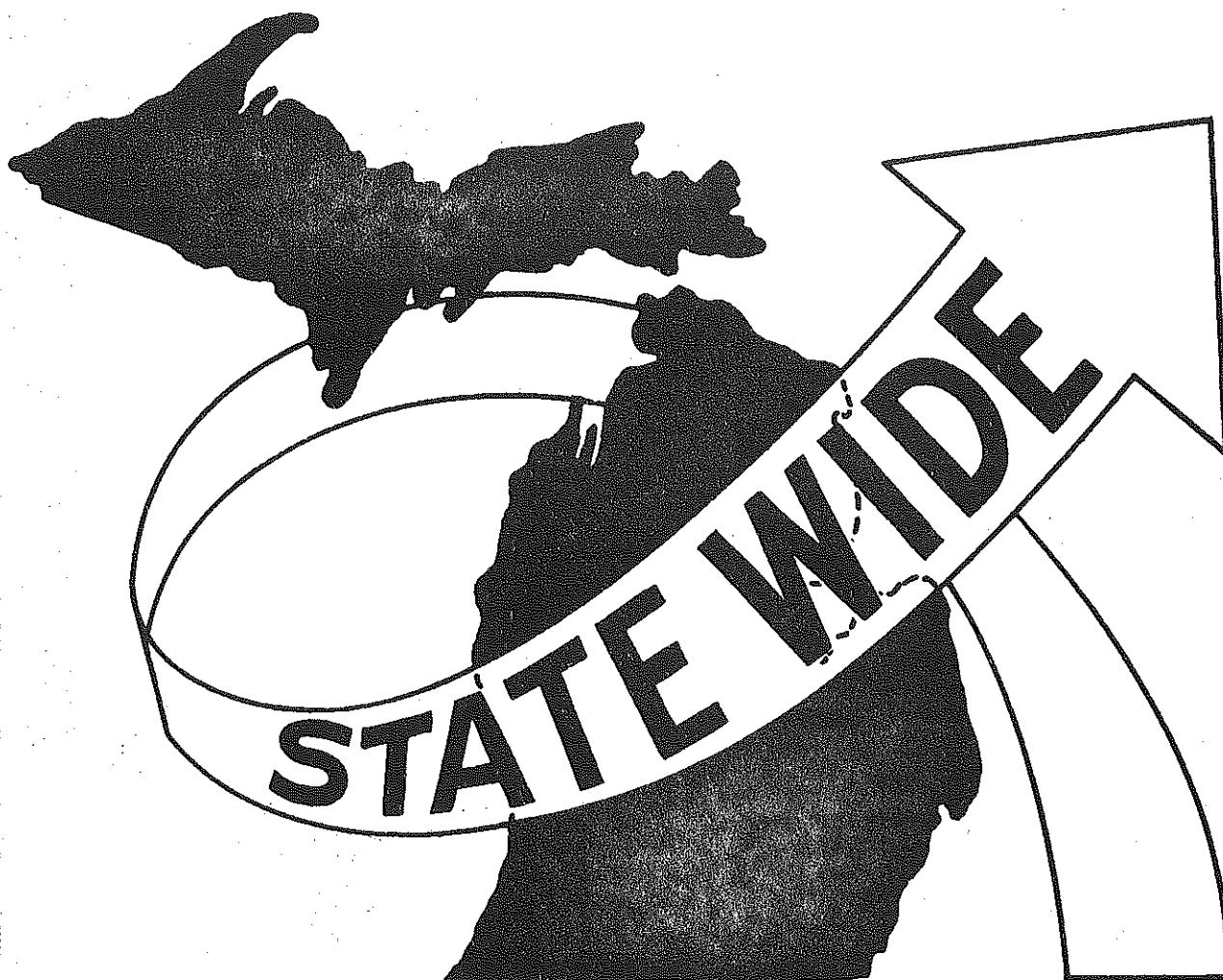
PREFACE

In June 1970, the Penn Central Transportation Company, the nation's largest transportation company, filed for bankruptcy. Since that time, national attention has been focused on the plight of the entire rail system in the populous, industrial Northeast and Midwest region. Six other railroads have since filed for bankruptcy and in 1974, the federal government responded with the Regional Rail Reorganization Act of 1973. That law created the U.S. Railway Association, charged with developing a Final System Plan to reorganize rail service and dispose of bankrupt rail properties in the region.

The USRA Preliminary System Plan and public hearings generated considerable controversy in the affected states. Criticism has been leveled at the USRA analysis especially with regard to the analysis of lines labeled "potentially excess", and for good reason: if all such lines labeled potentially excess were abandoned, Michigan's entire ten-county northwest region would have no rail service.

Thus, the Michigan Department of State Highways and Transportation needs to develop its own planning capabilities and data base in the rail transport area at the systems level. This report signals an important step: a matrix of commodity flows for the bankrupt Penn Central Railroad.

INTRODUCTION



INTRODUCTION

Necessary to comprehensive rail planning at the systems level are three components:

- (1) a computer model of the rail network,
- (2) commodity flow data, and
- (3) passenger flow data.

Michigan's Statewide Transportation Modeling System already contains (1) a rail network, as described in Statewide reports, Michigan Goes Multi-Modal (Volume XIII) and 1972 Statewide Rail Network: Summary Tabulations.

This report displays the addition to the Statewide System of (2) commodity flow data, for the Penn Central Railroad. The procedures described herein converted a 1973 100% waybill sample for the Penn Central line into a matrix of commodity flows from and to each of the 547 zones in Michigan's Statewide Transportation Modeling System (see Figures 1-3). This process produces commodity flow data for comprehensive rail planning, and insures that this and future railroad analysis will be compatible with analyses of highways and other modes and with the extensive socio-economic and facilities files contained on the Statewide System.

This report is Volume XIV-B in the Statewide Series of reports. Volumes XIV-A and XIV-C describe two other commodity flow matrices available on the Statewide System: XIV-A is a

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE OUTSTATE ANALYSIS ZONES

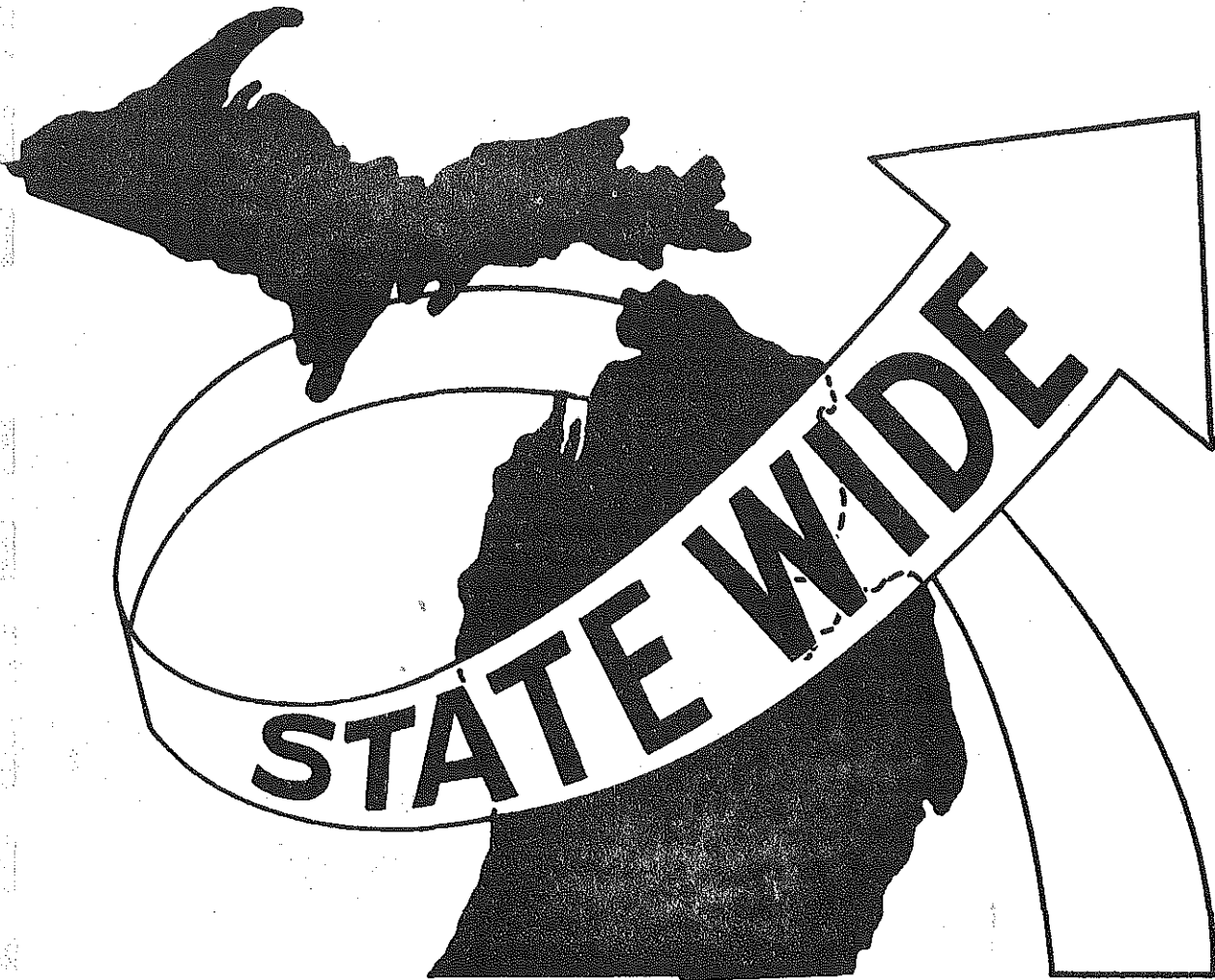


FIGURE 2

1973 100% waybill sample for the Ann Arbor Railroad and XIV-C is a 1972 1% waybill sample of all freight movements originating or terminating in Michigan. The previous reports in the series are:

Volume	I --	Objectives and Work Program
Volume	I-A--	Region 4 Workshop Topic Summaries
Volume	I-B--	Single and Multiple Corridor Analysis
Volume	I-C--	Model Applications: Turnbacks
Volume	I-D--	Proximity Analysis: Social Impacts of Alternate Highway Plans on Public Facilities
Volume	I-E--	Model Applications: Cost-Benefit Analysis
Volume	I-F--	Air and Noise Pollution System Analysis Model
Volume	I-G--	Transportation Planning Psychological Impact Model
Volume	I-H--	Level of Service Systems Analysis Model: A Public Interaction Application
Volume	I-J--	Service-Area Model
Volume	I-K--	Effective Speed Model: A Public Interaction Tool
Volume	I-L--	System Impact Analysis Graphic Display
Volume	I-M--	Modeling Gasoline Consumption
Volume	II --	Development of Network Models
Volume	III --	Multi-Level Highway Network Generator ("Segmental Model")
Volume	III-A--	Semi-Automatic Network Generator Using a "Digitizer"
Volume	V	Part A --Travel Model Development: Reformation-Trip Data Bank Preparation
Volume	V	Part B --Development of the Statewide Socio-Economic Data Bank for Trip Generation-Distribution
Volume	VI --	Corridor Location Dynamics
Volume	VI-A--	Environmental Sensitivity Computer Mapping
Volume	VII --	Design Hour Volume Model Development
Volume	VII-A--	Capacity Adequacy Forecasting Model
Volume	VII-B--	Modeling Major Facility Opening Impact on DHV
Volume	VIII --	Statewide Public and Private Facility File
Volume	IX --	Statewide Socio-Economic Data File
Volume	X-A--	Statewide Travel Impact Analysis Procedures
Volume	X-B--	Statewide Social Impact Analysis Procedures
Volume	X-C--	Statewide Economic Impact Analysis Procedures
Volume	XI --	Computer Run Times - An Aid in Selecting Statewide Travel Model System Size
Volume	XIII --	Michigan Goes Multi-Modal
Volume	XIII-A--	Multi-Modal Mobility and Accessibility Analysis

**COMMODITY
FLOW MATRIX
DEVELOPMENT**



COMMODITY FLOW MATRIX DEVELOPMENT

The process for creating the commodity flow matrix occurred in three steps (illustrated in Figure 4):

- (1) building a file to match the SPLC (Standard Point Location Code) found on the waybill tapes to Michigan's 547 zone system,

- (2) matching the origin and destination SPLCs on the waybill file to zones, and

- (3) building the flow matrix.

The original SPLC master file contained: SPLC, a six-digit number; alphabetic place name, state, and county in the U.S.; and place name and province in Canada. The SPLC-to-zone file that was created included only Michigan, Wisconsin, Illinois, Indiana, and Ohio (see Figures 1 and 2). The Michigan SPLCs were matched by a FORTRAN program to the Statewide Auto-Coding Place File, and mismatches were corrected by hand. The four other states' zones are multi-county zones, so the FORTRAN routine simply matched county names to zones, requiring no manual correction.

The waybill file and the SPLC-to-zone file were matched by a second FORTRAN program. This routine assigned the distant out-of-state SPLCs to zones (see Figure 3) based on the first two digits of the SPLC. The Canadian zones were assigned by ranges of SPLCs (based on visual inspection of the Canadian portion of the original SPLC master file) in this program.

FLOWCHART OF COMMODITY FLOW MATRIX DEVELOPMENT

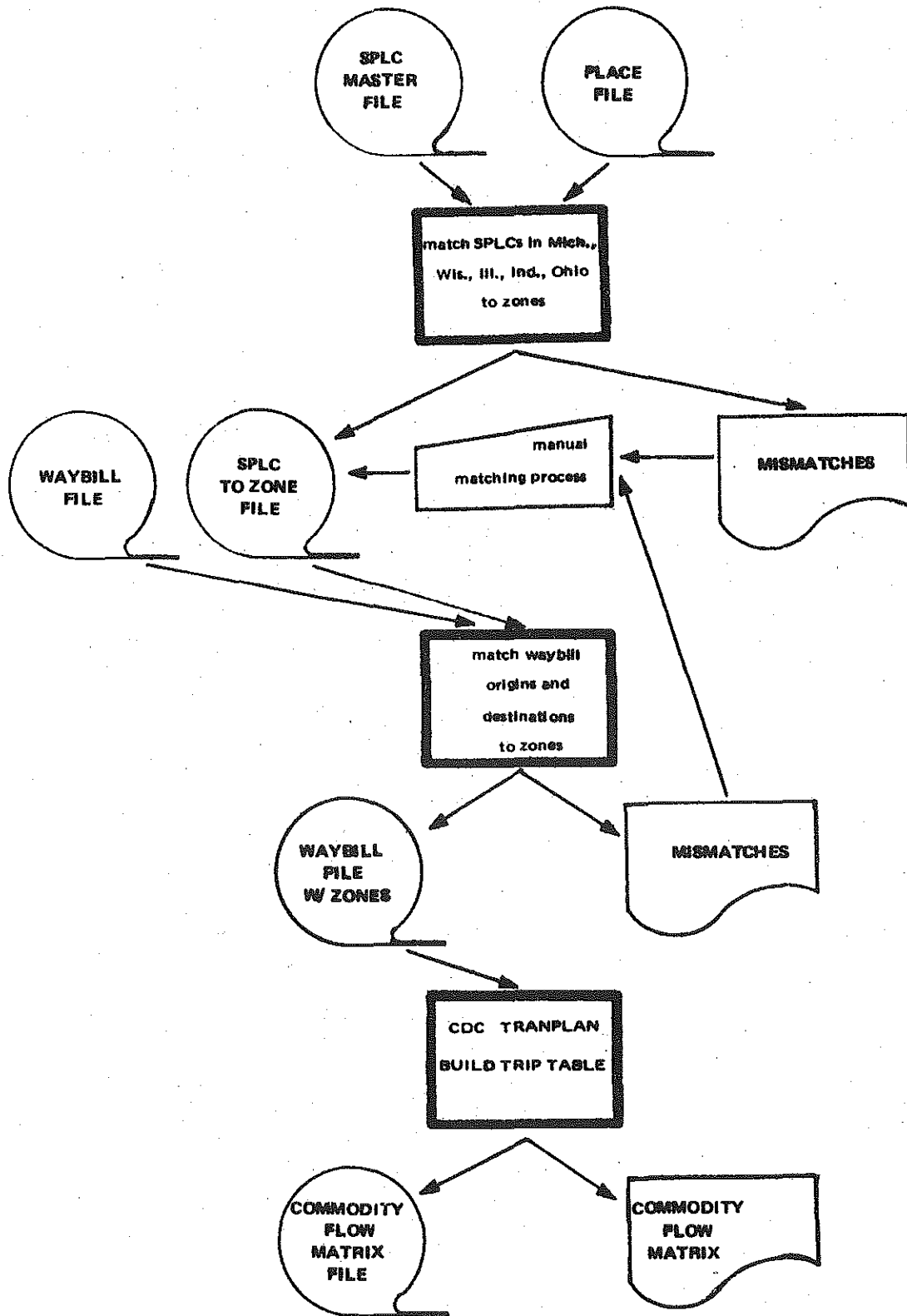


FIGURE 4

Entries for which SPLCs were missing were matched to zones manually utilizing a second place code on the waybill, the Freight Station Accounting Code (FSAC).

For the Penn Central railroad, the matching process was good: of the 627,325 entries on the waybill file, 2,050 could not be matched to statewide zones. Those entries, reproduced in Appendix III were missing SPLCs and could not be manually matched by FSAC.

To simplify data processing, zone-to-zone interchanges considered unlikely to move through Michigan were not included in the commodity flow matrix. The interchanges excluded are shown in Figure 5. The exclusion process eliminated 230,732 entries from the commodity flow matrix, but those entries are still available if needed for some future analysis.

Building the commodity flow matrix was accomplished using Control Data Corporation's DCO Tranplan Build Trip Table program. That program's output is presented in the following section.

ZONE TO ZONE MOVEMENTS NOT INCLUDED
IN COMMODITY FLOW MATRIX

PENN CENTRAL RAILROAD 1973 100% SAMPLE

all outstate zones (509-547) to themselves

509 to 510, 512, 513, 547

510 to 509, 512, 513, 547

511 to 513, 545, 547

512 to 509, 510, 513, 547

513 to 509, 510, 511, 512, 545, 546, 547

541 to 542, 543, 544, 545, 546, 547

542 to 541, 543, 544, 545, 546, 547

543 to 541, 542, 544, 545, 546

544 to 541, 542, 543, 545, 546

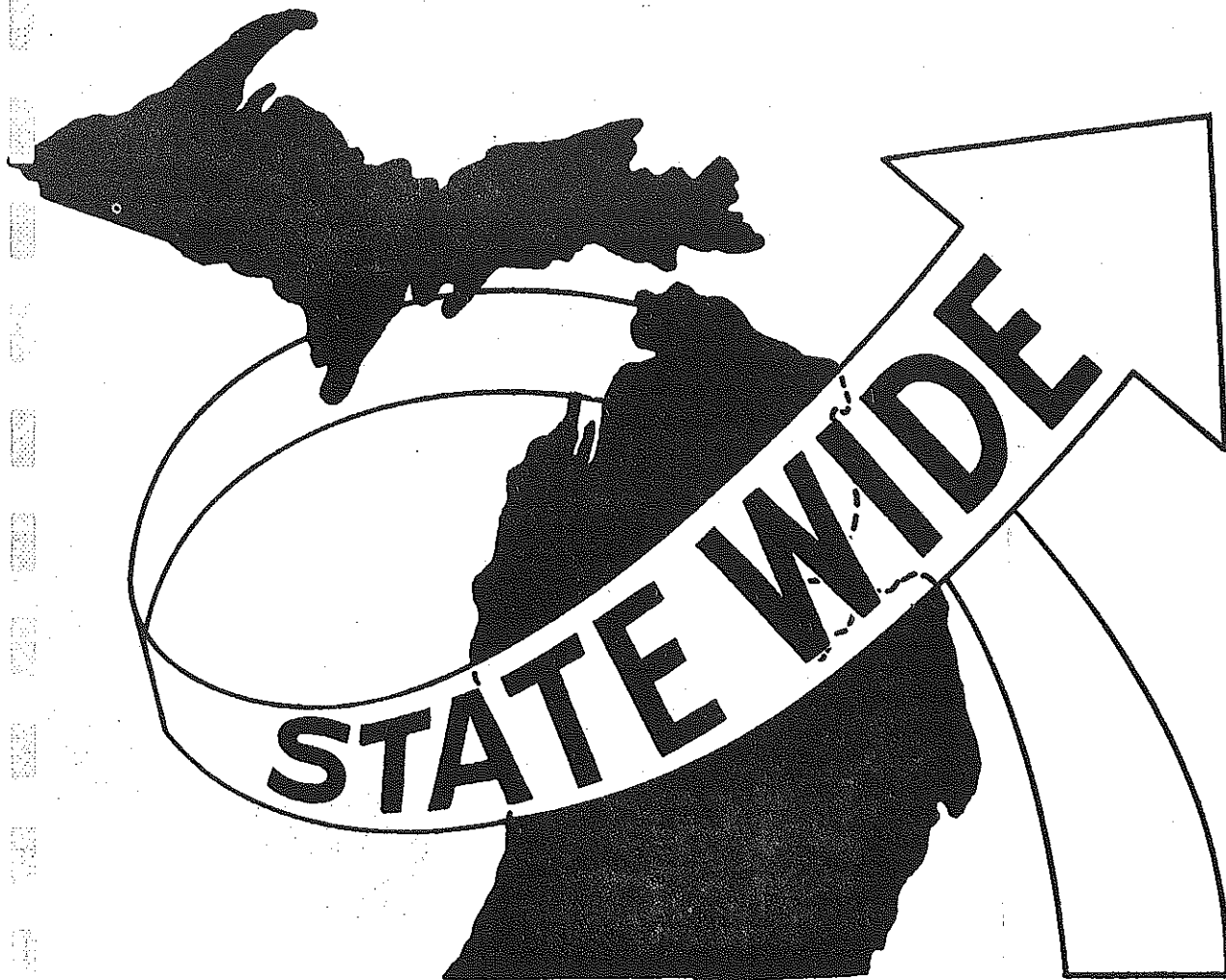
545 to 511, 513, 541, 542, 543, 544

546 to 513, 541, 542, 543, 544, 547

547 to 509, 510, 511, 512, 513, 541, 542, 546

FIGURE 5

COMMODITY FLOW MATRIX



COMMODITY FLOW MATRIX

The matrix of commodity flows presented in Appendix I represents the movements of carloads of freight of all kinds from each zone to every other zone on the Penn Central Railroad in 1973, provided such movements impact Michigan. As such, it represents only a fragment of the data potential on the original waybill file. Other tables may be built to report tons, revenues, or short-line miles, rather than carloads. And any of the data items listed in Figure 6 may be used to sort out shipments by selected classes. For example, STCCs (Standard Transportation Commodity Codes) could be sorted on, to give an analysis of flows of commodities which are and are not transferable to truck.

Trip end summaries, such as that presented in Appendix II, may be generated from the commodity flow matrix to show the totals (cars, tons, revenues, short-line miles) originating and terminating at each zone.

Note the "PURPOSE 1" on the matrix and the trip end summary refers to the initial run, and represents all commodities.

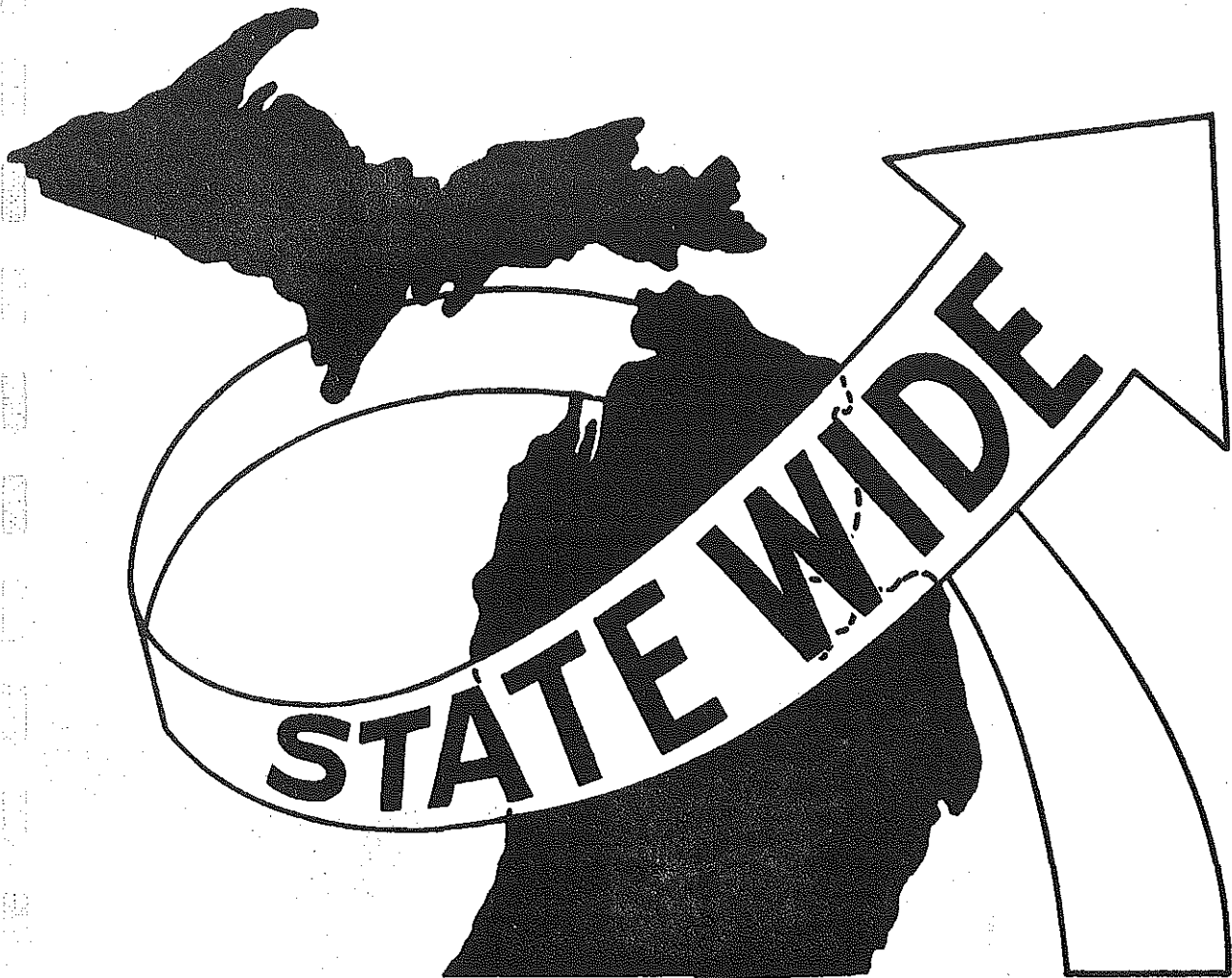
DATA AVAILABLE FROM WAYBILL FILE

Penn Central Railroad 1973 100% Sample

1. Submitting railroad code (standard AAR code)
2. Special commodity class
 - 1 = farm, forest, and marine products
 - 2 = ores, minerals, and petroleum products
 - 3 = manufactured goods, except in 4
 - 4 = assembled transportation vehicles
 - 5 = misc. other
3. Traffic class
 - F = Forward
 - O = Overhead
 - L = Local
 - R = Received
4. Originating and terminating railroad code (standard AAR code)
5. Originating and terminating station (FSAC)
6. Originating and terminating SPLC
7. On and off junction (Rule 260)
8. On and off railroad code (standard AAR code)
9. Intermodal traffic indicator
 - O = Non - intermodal
 - I = Intermodal
10. Transit Indicator
 - O = Non - transit
 - I = Transit
11. Commodity (STCC)
12. Number of cars
13. Tons
14. Submitting railroad dollars
15. Shortline miles (submitting railroad)

FIGURE 6

CONCLUSION



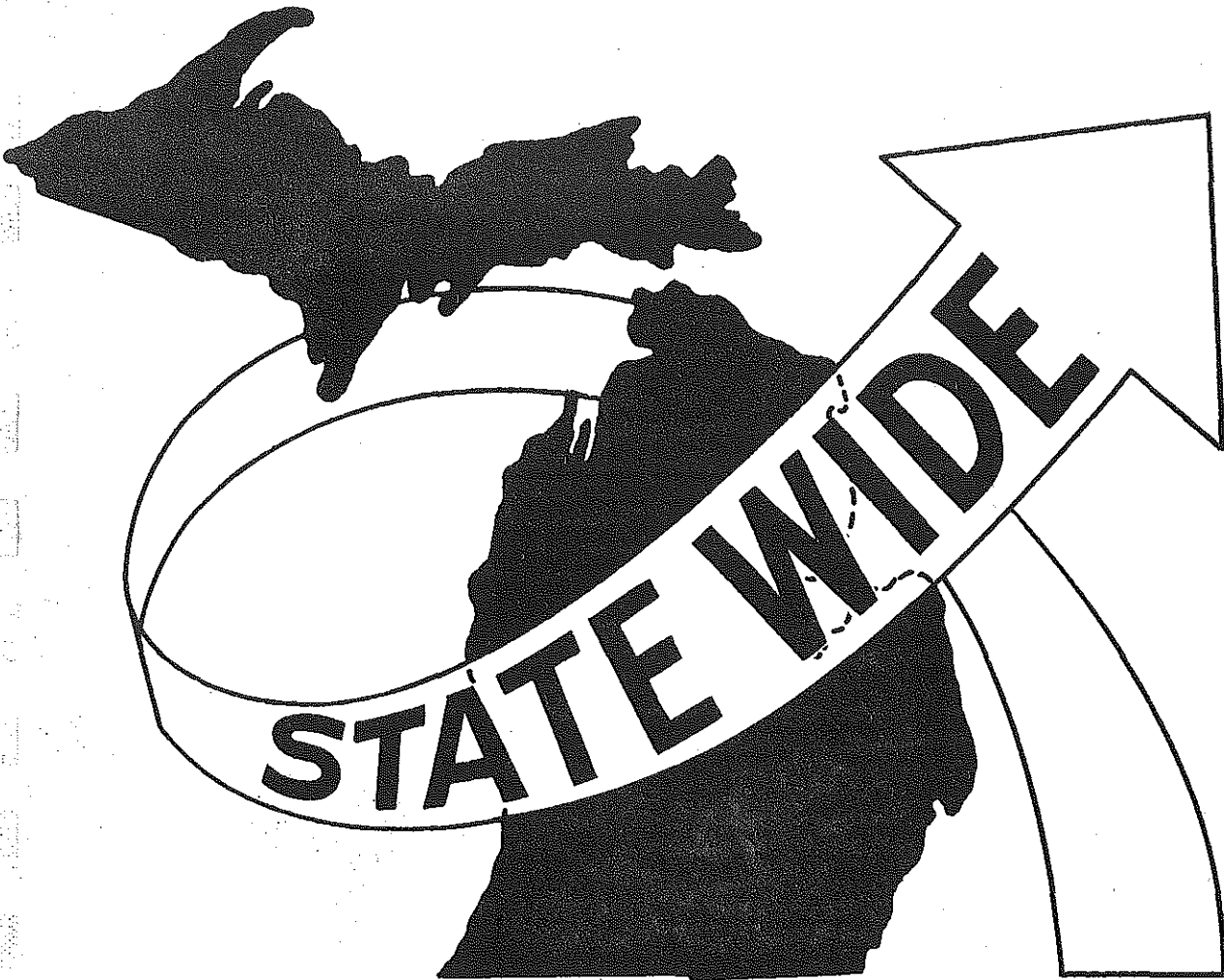
CONCLUSION

A criticism of the USRA rail planning to date is that it has been done link by link, rather than at a system level. Michigan which stands to be greatly impacted economically and socially by the final outcome of the current rail reorganization, is moving toward a more comprehensive approach than that taken by USRA thus far.

Michigan's data base, as described in this series of reports, is quite good for rail commodity movements. When all commodity flow matrices are built, an accurate matrix of all commodity rail movements in Michigan will be available for assignment to the Statewide rail network. One of the first analyses to be performed with that data will likely be loading those commodities which are "truck transferable" and those which are not, to determine the impacts of rail abandonments. The viability analysis program developed by USRA to determine the economic viability of rail segments for its Preliminary System Plan, is also being implemented on the Statewide System. It will possibly be modified to better reflect Michigan's rail planning needs.

In short, Michigan's Department of State Highways and Transportation is rapidly building its planning capabilities and data base, to meet the challenge of providing planning information from Michigan to the Congress and the legislature to help structure a viable rail system.

APPENDIX I



ORIGIN ZONE	1	PURPOSE	1	1 TOTAL ORIG/PROD									TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	0	0	0	0	1						
ORIGIN ZONE	2	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	3	PURPOSE	1	87 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	0	0	0	0	0	0	0	23	2	540		
541	0	0	0	0	0	4	58						
ORIGIN ZONE	4	PURPOSE	1	33 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
291	16	0	0	0	0	0	0	0	0	0	300		
531	0	0	0	2	0	0	0	0	10	4	540		
541	0	0	0	0	0	1	0						
ORIGIN ZONE	5	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	6	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	7	PURPOSE	1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	1	0	0	0	0						
ORIGIN ZONE	8	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	9	PURPOSE	1	1947 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
1	0	0	0	0	0	0	0	0	1	0	10		
31	0	0	0	0	0	0	0	0	0	44	40		
221	0	0	0	0	0	1	0	0	0	0	230		
231	0	0	4	0	0	1	131	0	0	0	240		
281	0	0	0	0	0	1	0	0	0	0	290		
471	0	0	0	0	0	0	0	2	0	0	480		

COMMODITY FLOW MATRIX

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

481	0	0	2	0	0	77	0	0	0	0	490
491	0	0	73	0	0	0	0	0	0	0	500
511	0	0	4	0	0	0	0	0	0	0	520
521	1	114	30	80	490	7	3	0	0	0	530
531	0	0	96	27	0	0	1	14	42	51	540
541	19	55	104	37	67	234	134				

ORIGIN ZONE 10 PURPOSE 1 17 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	2	0	0	0	0	0	0	540
541	0	0	0	0	0	4	11				

ORIGIN ZONE 11 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 12 PURPOSE 1 283 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	2	0	0	0	0	0	60
331	0	0	0	0	0	0	0	0	0	3	340
391	0	0	0	0	6	0	0	0	0	0	400
491	0	0	1	0	0	0	0	0	0	0	500
511	0	0	1	0	0	0	0	0	0	0	520
521	68	43	0	0	10	0	0	0	0	0	530
531	0	2	0	0	0	0	0	0	20	4	540
541	2	11	21	16	3	30	40				

ORIGIN ZONE 13 PURPOSE 1 742 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
181	0	0	102	0	0	0	0	0	0	0	190
211	0	0	0	0	0	1	0	0	0	0	220
491	0	0	2	0	0	0	0	0	0	0	500
511	0	7	0	0	0	0	0	0	0	2	520
521	0	1	1	0	38	2	5	0	0	0	530
531	3	0	5	2	0	1	0	37	18	11	540
541	29	37	13	13	6	237	169				

ORIGIN ZONE 14 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	1	0	0	0				

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-													
461	0	0	0	0	1	0	0	0	0	0	470		
511	0	0	5	0	0	0	0	0	0	0	520		
531	0	2	0	0	0	0	0	10	4	7	540		
541	3	1	2	0	0	148	3						
ORIGIN ZONE	23	PURPOSE	1	5 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	2	1	0	0	0	2	0						
ORIGIN ZONE	24	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	25	PURPOSE	1	69 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
271	0	0	0	0	1	0	0	0	0	0	280		
491	0	0	4	0	0	0	0	0	12	0	500		
521	0	0	1	0	1	4	0	1	0	0	530		
531	0	0	0	3	0	0	0	0	2	5	540		
541	6	10	6	4	1	8	0						
ORIGIN ZONE	26	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	27	PURPOSE	1	0 TOTAL ORIG/PROD									
ORIGIN ZONE	28	PURPOSE	1	7 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	1	0	0	1	4	0	1						
ORIGIN ZONE	29	PURPOSE	1	2654 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
31	0	0	0	0	0	0	2	0	0	0	40		
51	1	0	0	0	12	0	0	0	0	0	60		
61	0	0	0	0	0	54	1	0	0	0	70		
121	0	0	0	0	0	0	0	1	0	0	130		
161	2	0	0	0	0	0	0	0	0	0	170		
221	0	0	0	0	0	0	0	0	0	3	230		
231	0	0	0	0	0	0	1	0	0	0	240		

-CONTINUED-

281	0	0	0	0	2	0	0	0	0	0	290
311	0	0	0	0	12	0	0	0	0	0	320
391	0	1	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	16	0	410
411	6	0	0	0	0	0	0	0	0	0	420
431	0	0	0	0	0	0	0	0	1	0	440
451	0	0	0	0	0	0	1	0	0	0	460
461	0	0	0	0	1	0	0	0	0	0	470
481	0	0	1	46	0	0	0	0	0	0	490
491	0	0	133	0	0	0	110	0	5	0	500
501	0	0	0	0	0	0	0	0	0	1	510
511	0	33	39	0	0	0	0	0	0	0	520
521	0	6	4	0	58	15	1	0	0	1	530
531	8	0	4	56	0	0	18	8	96	90	540
541	64	29	47	31	5	870	758				

ORIGIN ZONE 30 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 31 PURPOSE 1 118 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
401	0	0	0	0	0	0	0	0	2	0	410
441	0	2	0	0	0	0	0	0	0	0	450
521	0	0	0	0	6	0	0	0	0	0	530
531	0	0	0	8	0	7	0	0	0	1	540
541	0	7	18	11	0	19	37				

ORIGIN ZONE 32 PURPOSE 1 32 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
511	0	0	2	0	0	0	0	0	0	0	520
531	0	0	0	1	0	1	0	0	0	0	540
541	0	4	7	2	0	5	10				

ORIGIN ZONE 33 PURPOSE 1 62 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
511	0	0	2	0	0	0	0	0	0	0	520
521	0	5	0	0	3	0	0	0	0	0	530
541	0	3	11	9	0	19	10				

ORIGIN ZONE 34 PURPOSE 1 8 TOTAL ORIG/PROD

-CONTINUED-

521	0	0	0	0	0	0	0	0	0	1	530
531	0	4	1	1	0	0	0	0	11	5	540
541	0	1	1	0	0	27	14	0			

ORIGIN ZONE	41	PURPOSE	1	112 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
491	0	0	0	0	0	0	1	0	0	0	500	
531	0	0	4	0	0	0	0	0	0	4	540	
541	8	4	39	11	1	28	12					

ORIGIN ZONE	42	PURPOSE	1	1 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
541	0	0	0	0	0	0	1					

ORIGIN ZONE	43	PURPOSE	1	3 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
531	0	0	0	1	0	0	0	0	0	0	540	
541	1	0	0	0	0	0	1					

ORIGIN ZONE	44	PURPOSE	1	349 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
511	0	2	14	0	0	0	0	0	0	0	520	
521	0	3	7	0	51	0	0	0	0	0	530	
531	0	0	0	2	0	0	0	0	0	3	540	
541	1	18	38	82	22	79	27					

ORIGIN ZONE	45	PURPOSE	1	206 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
521	5	8	0	0	5	0	0	1	0	1	530	
531	0	1	0	0	0	0	0	0	0	1	540	
541	33	46	20	34	21	23	7					

ORIGIN ZONE	46	PURPOSE	1	0 TOTAL ORIG/PROD								
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ORIGIN ZONE	47	PURPOSE	1	201 TOTAL ORIG/PROD								
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MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
					-CONTINUED-						
51	0	0	0	0	12	0	0	0	0	0	60
521	0	0	0	0	116	0	0	0	0	0	530
531	0	0	0	0	1	0	1	0	0	0	540
541	0	0	3	17	0	16	35				

ORIGIN ZONE 48 PURPOSE 1 271 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	4	0	0	0	0	0	0	0	0	0	60
131	0	0	0	0	0	1	0	0	0	0	140
531	0	0	0	0	0	0	0	1	0	1	540
541	0	2	0	0	0	72	190				

ORIGIN ZONE 49 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 50 PURPOSE 1 13 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	1	11	1	0	0	0				

ORIGIN ZONE 51 PURPOSE 1 507 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	44	0	0	0	0	0	60
481	0	0	0	0	0	1	0	0	0	0	490
521	0	0	0	0	3	0	5	0	0	0	530
531	0	0	3	1	0	0	0	1	2	0	540
541	13	4	4	7	4	47	368				

ORIGIN ZONE 52 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 53 PURPOSE 1 15 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	3	0	0	9	0	0	1	0	0	0	530
531	0	0	0	1	0	0	0	0	0	0	540
541	0	0	1	0	0	0	0				

ORIGIN ZONE 54 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE	55	PURPOSE 1		20219 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
21	0	0	0	0	0	0	0	0	8	0	30
41	0	0	0	0	1	0	75	0	0	0	50
51	0	0	0	0	7	0	0	0	0	0	60
111	0	8	0	0	0	0	0	0	0	0	120
121	0	0	0	0	0	0	0	4	0	0	130
181	0	0	3	0	0	0	0	0	0	0	190
191	1	0	0	0	0	0	0	0	0	0	200
211	0	0	0	0	0	1	0	0	0	0	220
221	0	0	0	0	0	2	0	0	0	0	230
231	0	0	0	0	0	1	125	0	0	0	240
251	0	0	0	0	0	0	0	8	0	0	260
261	0	1	0	0	0	0	0	0	0	0	270
281	0	0	0	0	3	0	0	0	0	1	290
311	18	0	0	0	0	0	0	0	0	0	320
341	0	1	0	0	0	0	0	0	0	0	350
391	0	0	0	0	2	0	0	0	0	0	400
461	0	0	0	0	0	0	0	0	56	0	470
471	0	4	0	0	0	0	0	0	0	0	480
481	0	0	0	1	0	0	0	0	0	1	490
491	0	0	76	0	135	0	0	0	0	0	500
501	0	68	0	0	0	0	0	0	0	0	510
511	0	12	12	0	0	0	0	0	0	0	520
521	33	14	63	0	989	66	111	9	1	0	530
531	4	108	130	438	0	1	45	94	751	1345	540
541	827	1335	994	2012	273	5251	4689				

ORIGIN ZONE	56	PURPOSE 1		48 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	6	42				

ORIGIN ZONE 57 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 58 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 59 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 60 PURPOSE 1 0 TOTAL ORIG/PROD

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ORIGIN ZONE	61	PURPOSE	1	7 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
541	1	0	0	0	0	2	4					

ORIGIN ZONE	62	PURPOSE	1	0 TOTAL ORIG/PROD							
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ORIGIN ZONE	63	PURPOSE	1	0 TOTAL ORIG/PROD							
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ORIGIN ZONE	64	PURPOSE	1	0 TOTAL ORIG/PROD							
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ORIGIN ZONE	65	PURPOSE	1	13 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
521	0	0	1	0	1	0	0	0	0	0	530	
541	0	2	2	2	1	3	1					

ORIGIN ZONE	66	PURPOSE	1	267 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
31	0	0	0	0	0	0	2	0	0	0	40	
211	0	0	0	0	0	1	0	0	0	0	220	
261	0	1	0	0	0	0	0	0	0	0	270	
401	0	0	0	0	0	0	0	0	3	0	410	
491	0	0	3	0	0	0	0	0	0	0	500	
521	0	0	0	0	2	0	0	1	0	0	530	
531	0	0	2	0	0	0	0	0	0	2	540	
541	3	1	44	19	2	16	165					

ORIGIN ZONE	67	PURPOSE	1	153 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
51	0	0	0	0	14	0	0	0	0	0	60	
221	0	0	0	0	0	5	0	0	0	0	230	
511	0	20	0	0	0	0	0	0	0	0	520	
521	0	7	2	3	1	0	0	10	0	0	530	
531	0	0	4	0	0	0	0	0	3	25	540	
541	1	32	6	0	0	9	11					

ORIGIN ZONE	68	PURPOSE	1	346 TOTAL ORIG/PROD							
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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
121	0	0	0	0	0	0	0	1	0	0	130
231	0	0	0	0	0	0	1	0	0	0	240
351	0	0	0	0	0	0	0	0	0	1	360
451	0	0	0	0	0	0	0	0	3	0	460
511	0	0	0	0	0	0	0	0	4	0	520
521	0	0	0	0	83	0	0	3	0	0	530
531	0	0	0	1	0	0	0	5	0	25	540
541	5	102	11	19	1	69	12				
ORIGIN ZONE 69	PURPOSE 1	7 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	2	5				
ORIGIN ZONE 70	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 71	PURPOSE 1	2 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	2				
ORIGIN ZONE 72	PURPOSE 1	3 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	1	2				
ORIGIN ZONE 73	PURPOSE 1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	4	0	0	0	0	0	0	540
ORIGIN ZONE 74	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 75	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 76	PURPOSE 1	10 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
331	0	0	0	0	0	0	0	1	0	0	340

-CONTINUED-

ORIGIN ZONE	PURPOSE	1	0 TOTAL ORIG/PROD									
541	4	2	2	0	0	0	0	1				
ORIGIN ZONE	77	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	78	PURPOSE	1	5 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
181	0	0	1	0	0	0	0	0	0	0	190	
531	0	0	0	0	0	0	0	2	0	0	540	
541	0	0	0	0	0	0	1					
ORIGIN ZONE	79	PURPOSE	1	905 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
181	0	0	1	0	0	0	0	0	0	0	190	
211	0	0	0	0	0	0	0	0	0	0	220	
231	0	0	0	0	0	0	38	0	0	0	240	
321	0	0	1	0	0	0	0	0	0	0	330	
401	0	0	0	0	0	0	0	0	1	0	410	
461	0	0	0	0	0	0	0	0	2	0	470	
491	0	0	143	0	0	0	38	0	0	0	500	
501	0	2	0	0	0	0	0	0	0	0	510	
511	0	23	12	0	0	0	0	0	0	0	520	
521	0	114	1	0	12	4	3	0	0	0	530	
531	0	0	0	24	0	0	6	28	13	128	540	
541	19	62	25	3	8	57	136					
ORIGIN ZONE	80	PURPOSE	1	12 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
71	0	0	0	0	0	0	0	1	0	0	80	
81	0	0	1	0	0	0	0	0	0	0	90	
481	0	0	0	1	0	0	0	0	0	0	490	
531	0	0	0	0	0	0	0	0	0	1	540	
541	0	0	1	5	0	1	1					
ORIGIN ZONE	81	PURPOSE	1	9 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
541	0	0	5	4	0	0	0					

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ORIGIN ZONE	PURPOSE	TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
92	1	14									
541	0	0	0	0	0	5	9				
93	1	0									
94	1	0									
95	1	1									
541	0	0	0	0	0	0	1				
96	1	0									
97	1	0									
98	1	0									
99	1	26									
541	0	0	0	0	0	2	24				
100	1	0									
101	1	56									
531	0	0	0	0	0	0	0	0	0	52	540
541	0	0	0	4	0	0	0				
102	1	1									
541	0	0	0	0	0	1	0				

ORIGIN ZONE	103	PURPOSE	1	55 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
221	0	0	0	0	0	1	0	0	0	0	230		
521	0	0	0	0	0	5	0	4	0	0	530		
531	0	0	0	0	0	0	0	0	0	3	540		
541	1	0	0	0	0	23	18	0	0	0			

ORIGIN ZONE	104	PURPOSE	1	11 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	0	0	1	0	0	0	0	0	0	540		
541	0	0	0	0	0	2	1	0	0	0			

ORIGIN ZONE	105	PURPOSE	1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
291	4	0	0	0	0	0	0	0	0	0	300		

ORIGIN ZONE	106	PURPOSE	1	1336 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
1	0	0	0	0	0	0	0	0	112	0	10		
11	0	0	3	0	0	0	0	0	0	0	20		
41	0	0	0	0	1	0	0	0	0	0	50		
71	0	0	0	0	0	0	0	0	1	0	80		
221	0	0	0	0	0	235	0	0	0	0	230		
231	0	0	3	0	0	0	0	0	0	0	240		
281	0	0	0	0	0	3	0	0	1	0	290		
491	0	0	77	0	1	0	0	0	0	0	500		
511	0	11	0	0	0	0	0	0	0	0	520		
521	0	0	0	0	0	2	0	0	0	0	530		
531	0	0	140	39	0	0	0	3	29	160	540		
541	0	5	0	0	0	168	342	0	0	0			

ORIGIN ZONE	107	PURPOSE	1	26 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
291	26	0	0	0	0	0	0	0	0	0	300		

ORIGIN ZONE	108	PURPOSE	1	0 TOTAL ORIG/PROD									
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ORIGIN ZONE	109	PURPOSE	1	53 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
521	0	0	0	0	0	12	0	0	0	0	530		
531	0	0	0	6	0	0	0	0	0	2	540		
541	0	0	0	0	0	20	13						

ORIGIN ZONE	110	PURPOSE	1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	0	0	0	0	1						

ORIGIN ZONE	111	PURPOSE	1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
61	0	0	0	0	0	1	0	0	0	0	70		
221	0	0	0	0	0	0	0	0	0	1	230		
521	0	0	0	0	0	0	1	0	0	0	530		
531	0	0	0	1	0	0	0	0	0	0	540		

ORIGIN ZONE	112	PURPOSE	1	3 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
291	1	0	0	0	0	0	0	0	0	0	300		
541	0	0	0	0	0	0	2						

ORIGIN ZONE	113	PURPOSE	1	156 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
1	0	0	0	0	0	0	0	0	1	0	10		
51	0	0	0	0	21	0	0	0	0	0	60		
221	0	0	0	0	0	0	0	0	0	4	230		
401	0	0	0	0	0	0	0	0	2	0	410		
521	0	0	0	0	1	0	0	0	0	0	530		
531	0	0	0	0	0	0	0	0	1	0	540		
541	0	1	0	0	0	2	123						

ORIGIN ZONE	114	PURPOSE	1	30 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	0	0	0	3	27						

ORIGIN ZONE	115	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	116	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	117	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	118	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	119	PURPOSE	1	16 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	3	13				
ORIGIN ZONE	120	PURPOSE	1	143 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	0	0	1	0	0	530
531	0	0	0	0	0	0	0	0	0	2	540
541	1	0	0	0	0	11	128				
ORIGIN ZONE	121	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	122	PURPOSE	1	152 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	6	0	0	0	0	0	60
221	0	0	0	0	0	0	0	0	0	7	230
521	0	1	0	0	1	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	3	540
541	0	0	1	2	0	14	117				
ORIGIN ZONE	123	PURPOSE	1	7 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	4	0	0	540
541	0	0	0	0	0	0	3				
ORIGIN ZONE	124	PURPOSE	1	35 TOTAL ORIG/PROD							

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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
21	0	0	1	0	0	0	0	0	0	0	30
231	0	0	0	0	0	0	1	0	0	0	240
541	0	0	0	8	0	25	0	0	0	0	
ORIGIN ZONE 125	PURPOSE 1	0 TOTAL ORIG/PROD									

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
21	0	1	0	0	0	0	0	0	0	0	30
101	0	0	0	0	1	0	0	6	0	0	110
161	0	0	0	0	0	0	0	5	9	0	170
281	0	0	6	0	0	0	0	0	0	0	290
291	0	0	0	0	2	0	0	1	0	0	300
521	0	0	5	0	5	0	0	0	0	0	530
541	0	4	14	4	3	0	0	0	0	0	
ORIGIN ZONE 126	PURPOSE 1	66 TOTAL ORIG/PROD									

ORIGIN ZONE 127	PURPOSE 1	0 TOTAL ORIG/PROD									
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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	27	0	0	0	0	70
161	2	5	0	0	0	0	0	0	0	0	170
181	0	0	4	0	0	0	0	0	0	0	190
211	0	0	0	0	0	41	0	0	0	0	220
281	0	0	0	0	0	4	0	0	0	0	290
321	0	0	21	0	0	0	0	0	0	0	330
451	0	0	0	0	0	0	0	0	0	1	460
481	0	0	0	3237	0	0	0	0	0	0	490
491	0	0	1	1	0	0	0	0	6	0	500
511	0	0	1	0	0	0	0	0	0	0	520
521	0	0	0	0	1	12	0	0	0	0	530
531	0	1	115	208	12	0	0	0	183	453	540
541	360	3	2	4	0	1946	7281	0	0	0	
ORIGIN ZONE 128	PURPOSE 1	13932 TOTAL ORIG/PROD									

ORIGIN ZONE 129	PURPOSE 1	1 TOTAL ORIG/PROD									
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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	1	0	0	0	

ORIGIN ZONE	130	PURPOSE	1	8 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	0	0	0	0	0	0	0	0	0	1	540	
541	0	0	0	0	0	0	7						

ORIGIN ZONE 131 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 132 PURPOSE 1 3150 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	78	0	0	0	0	230
261	0	1	0	0	0	0	0	0	0	0	270
481	0	0	2	1068	0	0	0	0	0	0	490
501	1	0	0	0	0	0	0	0	0	0	510
531	0	0	52	14	0	0	0	0	191	59	540
541	0	0	0	0	0	809	875				

ORIGIN ZONE 133 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 134 PURPOSE 1 2 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	0	2	540

ORIGIN ZONE 135 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 136 PURPOSE 1 526 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	5	0	0	0	0	70
221	0	0	0	0	0	2	0	0	0	0	230
481	0	0	0	70	0	0	0	0	0	0	490
531	0	0	0	0	0	0	1	0	151	1	540
541	0	0	0	0	0	137	159				

ORIGIN ZONE 137 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 138 PURPOSE 1 10 TOTAL ORIG/PROD

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
PENN CENTRAL RR 100 PERCENT SAMPLE
CARLOADS OF FREIGHT SHIPPED

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
541	0	0	0	0	0	1	9				
ORIGIN ZONE 139	PURPOSE 1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161	2	0	0	0	0	0	0	0	0	0	170
541	0	0	0	0	0	1	1				
ORIGIN ZONE 140	PURPOSE 1	3 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	3	0				
ORIGIN ZONE 141	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 142	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 143	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 144	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 145	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 146	PURPOSE 1	21 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	0	0	0	10	0	0	50
521	0	0	0	0	0	0	8	0	0	0	530
541	0	1	0	0	0	0	2				
ORIGIN ZONE 147	PURPOSE 1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	0	0	1	0	0	530
531	0	0	0	0	0	0	0	0	2	0	540
541	0	0	0	0	0	1	0				

ORIGIN ZONE 148 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 149 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 150 PURPOSE 1 69 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	0	0	0	1	0	0	50
231	0	0	0	0	0	0	2	0	0	0	240
531	3	0	0	2	0	0	0	0	0	1	540
541	3	3	0	0	0	26	28	0	0	0	

ORIGIN ZONE 151 PURPOSE 1 67 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	0	1	0	0	0	70
121	0	0	0	2	0	0	0	0	0	0	130
341	0	2	0	0	0	0	0	0	0	0	350
401	0	0	0	0	0	0	0	0	12	0	410
521	0	2	2	0	1	0	0	2	1	1	530
531	0	0	0	1	0	0	1	0	25	1	540
541	0	1	0	0	0	6	6	0	0	0	

ORIGIN ZONE 152 PURPOSE 1 10 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	4	6	0	0	0	

ORIGIN ZONE 153 PURPOSE 1 31 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	0	21	540
541	0	0	2	2	0	6	0	0	0	0	

ORIGIN ZONE 154 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 155 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 156 PURPOSE 1 738 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
331	0	0	2	0	0	0	0	0	0	0	340
491	0	0	4	0	0	0	1	0	0	0	500
521	0	0	0	0	0	1	10	1	0	0	530
531	0	22	35	1	0	0	0	0	357	1	540
541	43	0	0	0	0	200	60				
ORIGIN ZONE 157	PURPOSE 1	22 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	1	0	0	9	12				
ORIGIN ZONE 158	PURPOSE 1	192 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	2	0	0	0	0	0	0	540
541	0	0	0	0	0	57	133				
ORIGIN ZONE 159	PURPOSE 1	82 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
181	0	0	2	0	0	0	0	0	0	0	190
221	0	0	0	0	0	0	0	0	0	1	230
481	0	0	0	2	0	0	0	0	0	0	490
491	0	0	26	0	0	0	3	0	0	0	500
511	0	1	1	0	0	0	0	0	0	0	520
521	0	0	0	0	0	0	0	1	0	0	530
531	0	0	0	1	0	0	0	0	7	3	540
541	0	1	0	0	0	21	12				
ORIGIN ZONE 160	PURPOSE 1	104 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
431	0	0	1	0	0	0	0	0	0	0	440
491	0	0	1	0	0	0	0	0	0	0	500
511	0	4	0	0	0	0	0	0	0	0	520
521	0	0	0	4	0	1	1	11	0	0	530
531	0	0	0	0	0	0	0	0	1	5	540
541	1	0	3	0	0	35	36				
ORIGIN ZONE 161	PURPOSE 1	4250 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE

-CONTINUED-

11	0	1	0	0	0	0	0	0	0	0	0	20
51	0	0	0	0	0	6	1	0	0	0	0	60
131	0	18	0	0	0	0	0	0	0	0	0	140
221	0	0	0	0	0	0	0	0	0	0	1	230
231	0	0	0	0	0	0	0	1	0	0	0	240
241	1	0	0	0	0	0	0	0	0	0	0	250
451	0	0	0	0	0	0	0	0	0	2	0	460
491	0	0	33	0	28	0	0	0	0	0	0	500
501	0	3	0	0	0	0	0	0	0	0	0	510
511	0	2	57	0	0	0	0	0	0	0	0	520
521	2	0	35	0	408	22	1	0	0	0	0	530
531	0	1	13	93	0	0	47	3	12	88	0	540
541	421	400	381	105	61	919	1084					

ORIGIN ZONE 162	PURPOSE 1	30 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	1	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	2	540
541	1	3	4	1	0	5	13				

ORIGIN ZONE 163	PURPOSE 1	13 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	0	0	0	1	0	530
541	1	0	0	0	0	3	8				

ORIGIN ZONE 164	PURPOSE 1	0 TOTAL ORIG/PROD									
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ORIGIN ZONE 165	PURPOSE 1	276 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	11	0	0	0	0	0	530
541	16	0	1	3	1	76	168				

ORIGIN ZONE 166	PURPOSE 1	7 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	1	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	1	540
541	0	0	2	0	0	1	2				

ORIGIN ZONE	167	PURPOSE	1	38 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	541	6	0	0	1	0	4	27				
ORIGIN ZONE	168	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	169	PURPOSE	1	28 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	531	0	0	0	11	0	0	0	0	0	0	540
	541	0	7	0	0	0	0	10				
ORIGIN ZONE	170	PURPOSE	1	11 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	541	5	0	0	0	0	5	1				
ORIGIN ZONE	171	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	172	PURPOSE	1	2 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	231	0	0	0	0	0	0	2	0	0	0	240
ORIGIN ZONE	173	PURPOSE	1	3 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	541	0	3	0	0	0	0	0				
ORIGIN ZONE	174	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	175	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	176	PURPOSE	1	5 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	481	0	0	0	0	0	0	0	0	0	2	490
	541	0	0	0	0	0	3	0				

ORIGIN ZONE	177	PURPOSE 1										352 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
51	17	0	0	0	0	0	0	0	0	0	60	
161	16	0	0	0	0	0	0	0	0	0	170	
481	0	0	0	0	0	0	0	0	0	7	490	
531	0	0	2	2	0	0	0	237	7	24	540	
541	0	1	2	0	0	15	22					

ORIGIN ZONE	178	PURPOSE 1										30 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
481	0	0	0	0	0	0	0	0	0	8	490	
531	0	0	0	0	0	0	0	0	1	3	540	
541	0	0	0	0	0	3	15					

ORIGIN ZONE	179	PURPOSE 1										288 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
531	0	0	0	1	0	0	1	1	1	5	540	
541	29	0	0	0	0	160	90					

ORIGIN ZONE 180 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE	181	PURPOSE 1										1068 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
491	0	0	47	0	0	0	0	0	0	0	500	
531	0	0	0	7	0	0	0	0	15	801	540	
541	30	0	0	0	0	126	42					

ORIGIN ZONE	182	PURPOSE 1										1 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
541	0	0	0	0	0	1	0					

ORIGIN ZONE	183	PURPOSE 1										11268 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
1	0	0	0	0	0	0	0	0	16	0	10	
11	0	0	2	0	0	0	0	0	0	0	20	
21	0	0	0	0	0	2	0	0	0	0	30	

-CONTINUED-

531	0	0	0	0	0	0	0	1	0	0	540
541	20	194	102	62	43	234	203				
ORIGIN ZONE 187	PURPOSE 1	58 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	4	0	0	0	0	0	60
541	0	0	0	0	0	2	52				
ORIGIN ZONE 188	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 189	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 190	PURPOSE 1	27 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	7	20				
ORIGIN ZONE 191	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 192	PURPOSE 1	261 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	0	0	0	0	4	230
281	0	0	0	0	0	1	162	0	0	0	290
531	0	0	4	0	0	0	0	0	0	0	540
541	0	0	0	0	0	0	90				
ORIGIN ZONE 193	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 194	PURPOSE 1	90 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	0	4	540
541	0	0	0	0	0	29	57				
ORIGIN ZONE 195	PURPOSE 1	0 TOTAL ORIG/PROD									

ORIGIN ZONE	196	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	197	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	198	PURPOSE	1	4 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	2	2				
ORIGIN ZONE	199	PURPOSE	1	16 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	16				
ORIGIN ZONE	200	PURPOSE	1	11 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	0	8	540
541	0	0	0	0	0	2	1				
ORIGIN ZONE	201	PURPOSE	1	615 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
231	0	0	0	0	0	0	1	0	0	0	240
321	0	0	0	0	0	6	0	0	0	0	330
521	0	0	0	0	17	0	0	0	0	0	530
531	0	0	0	76	0	0	0	0	15	201	540
541	0	0	2	0	0	292	5				
ORIGIN ZONE	202	PURPOSE	1	74 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
81	0	0	0	0	0	0	1	0	0	0	90
531	0	0	0	0	0	0	0	1	61	2	540
541	0	0	1	0	1	3	4				
ORIGIN ZONE	203	PURPOSE	1	8 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
101	0	0	1	0	0	0	0	0	0	0	110
541	5	0	0	0	1	0	1				

ORIGIN ZONE	PURPOSE	1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
81	0	0	0	0	0	0	0	1	0	0	0	90
ORIGIN ZONE 205	PURPOSE 1	2 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
231	0	0	0	0	0	0	2	0	0	0	0	240
ORIGIN ZONE 206	PURPOSE 1	0 TOTAL ORIG/PROD										
ORIGIN ZONE 207	PURPOSE 1	0 TOTAL ORIG/PROD										
ORIGIN ZONE 208	PURPOSE 1	0 TOTAL ORIG/PROD										
ORIGIN ZONE 209	PURPOSE 1	0 TOTAL ORIG/PROD										
ORIGIN ZONE 210	PURPOSE 1	13 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
521	0	0	0	0	4	0	5	2	0	0	530	
541	0	0	0	0	0	0	2					
ORIGIN ZONE 211	PURPOSE 1	46 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
531	0	0	0	0	0	0	0	0	0	3	540	
541	0	0	0	0	0	6	37					
ORIGIN ZONE 212	PURPOSE 1	0 TOTAL ORIG/PROD										
ORIGIN ZONE 213	PURPOSE 1	1 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
411	0	0	0	0	0	1	0	0	0	0	420	
ORIGIN ZONE 214	PURPOSE 1	0 TOTAL ORIG/PROD										

ORIGIN ZONE	215	PURPOSE	1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	0	0	0	0	1						

ORIGIN ZONE	216	PURPOSE	1	7518 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
1	0	0	0	0	0	0	0	0	1	0	10		
31	0	0	0	0	0	0	3	0	0	0	40		
41	0	0	0	0	0	0	0	1	0	0	50		
61	0	0	0	0	0	42	0	0	0	0	70		
121	0	0	0	0	0	0	0	215	0	0	130		
131	1	0	0	0	0	0	0	0	0	0	140		
181	0	0	118	0	0	0	0	0	0	0	190		
221	0	0	0	0	0	1	0	0	0	0	230		
231	0	0	0	0	0	0	1	0	0	0	240		
301	0	0	0	0	0	1	0	0	0	0	310		
311	0	0	0	0	2	0	0	0	0	0	320		
351	0	0	0	0	0	0	0	1	0	0	360		
481	0	0	0	98	0	0	0	0	0	0	490		
491	0	1	1548	6	1	0	0	0	0	0	500		
501	14	0	0	0	2	0	0	0	0	0	510		
511	3	47	37	0	0	0	0	0	0	0	520		
521	0	18	331	0	518	53	2	20	0	0	530		
531	0	11	0	0	28	0	498	9	680	215	540		
541	89	406	959	264	122	971	180						

ORIGIN ZONE	217	PURPOSE	1	0 TOTAL ORIG/PROD									
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ORIGIN ZONE	218	PURPOSE	1	71 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
521	0	0	0	0	0	1	0	0	0	0	530		
541	1	1	1	0	0	11	56						

ORIGIN ZONE	219	PURPOSE	1	0 TOTAL ORIG/PROD									
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ORIGIN ZONE	220	PURPOSE	1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
181	0	0	1	0	0	0	0	0	0	0	190		
521	0	0	0	0	1	1	0	0	0	0	530		

-CONTINUED-

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	1	0	5	20				
ORIGIN ZONE 221	PURPOSE 1 0 TOTAL ORIG/PROD										
ORIGIN ZONE 222	PURPOSE 1 0 TOTAL ORIG/PROD										
ORIGIN ZONE 223	PURPOSE 1 26 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	1	0	5	20				
ORIGIN ZONE 224	PURPOSE 1 0 TOTAL ORIG/PROD										
ORIGIN ZONE 225	PURPOSE 1 0 TOTAL ORIG/PROD										
ORIGIN ZONE 226	PURPOSE 1 17544 TOTAL ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
11	0	0	6	0	0	0	0	0	0	0	20
31	0	0	0	0	0	0	29	0	0	0	40
51	0	0	0	0	5	0	0	0	0	0	60
71	0	0	0	0	0	0	0	0	5	0	80
121	0	0	0	0	0	0	0	1	0	0	130
181	0	2	908	0	0	0	0	0	0	0	190
211	0	0	0	0	0	2	0	0	0	0	220
221	0	0	0	0	0	0	17	0	0	0	230
231	0	0	0	0	0	0	34	1	0	0	240
321	0	0	1	0	0	0	0	0	0	0	330
391	0	0	0	0	110	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	886	0	410
421	0	0	0	0	0	0	0	0	0	3	430
441	0	2	0	0	0	0	0	0	0	0	450
451	0	2	0	0	0	0	1	0	0	0	460
471	1	0	0	0	0	0	0	0	0	0	480
481	0	0	2	1941	0	0	0	0	0	0	490
491	0	0	130	0	1	0	0	0	7	1	500
501	2	0	0	0	0	0	0	0	0	0	510
511	0	4	69	0	1	0	0	0	0	0	520
521	17	315	68	167	291	74	16	38	6	1	530
531	2	10	166	3	25	0	2	186	853	1998	540

-CONTINUED-											
541	848	1292	883	349	251	3453	2055				
ORIGIN ZONE 227	PURPOSE 1	741 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
221	0	0	0	0	0	2	0	0	0	0	230
491	0	0	8	1	0	0	0	0	0	0	500
511	0	0	1	0	2	0	0	0	0	0	520
521	0	0	10	0	61	8	0	0	0	0	530
531	0	18	0	4	0	0	0	0	24	35	540
541	113	129	80	1	15	109	79				
ORIGIN ZONE 228	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 229	PURPOSE 1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	1	0	0	0	0	0	0	540
ORIGIN ZONE 230	PURPOSE 1	615 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	161	0	0	0	0	0	60
471	0	0	0	0	1	0	0	0	0	0	480
491	0	0	1	0	0	0	0	0	0	0	500
521	0	0	0	0	5	0	0	0	0	0	530
531	0	0	0	0	0	0	1	0	1	3	540
541	4	142	1	122	1	35	137				
ORIGIN ZONE 231	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 232	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 233	PURPOSE 1	304 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
221	0	0	0	0	0	2	0	0	0	0	230
391	0	0	0	0	1	0	0	0	0	0	400

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

451	0	1	0	0	0	0	0	0	0	0	460
491	0	0	5	0	0	0	0	0	0	0	500
521	0	5	1	0	9	1	0	0	0	0	530
531	2	0	1	5	0	0	0	0	3	4	540
541	2	16	54	124	6	17	44				

ORIGIN ZONE 234 PURPOSE 1 57 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	4	0	0	0	0	530
541	0	5	31	17	0	0	0				

ORIGIN ZONE 235 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 236 PURPOSE 1 24510 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	0	0	0	6	0	0	0	40
121	0	0	0	0	0	0	0	1363	0	0	130
131	0	9	0	0	0	0	0	0	0	0	140
181	0	0	1293	0	0	0	0	0	0	0	190
221	0	0	0	0	0	1	0	0	0	0	230
231	0	0	0	0	0	0	2	0	0	0	240
261	0	7	0	0	0	0	0	0	0	0	270
281	0	0	0	0	0	42	142	0	0	0	290
331	0	0	0	0	3	0	0	0	0	0	340
341	0	1	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	1508	0	0	360
361	0	0	0	0	0	0	0	0	0	44	370
401	0	0	1	0	0	0	0	0	1463	0	410
451	0	1	0	0	0	0	0	0	0	0	460
481	0	0	0	281	0	0	0	0	0	0	490
491	0	0	1601	0	2	0	1	0	2	0	500
501	1	45	0	0	0	0	0	0	0	0	510
511	0	1	154	0	0	0	0	0	0	0	520
521	0	3	1482	0	42	1	13	4	0	17	530
531	0	18	18	30	0	1	0	11	1265	401	540
541	232	1447	3505	2036	8	3898	2104				

ORIGIN ZONE 237 PURPOSE 1 9028 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	0	0	0	5	0	0	0	40

-CONTINUED-

51	0	0	0	0	2	0	0	0	0	0	60
61	0	0	0	0	0	1	0	0	0	0	70
121	0	0	0	0	0	0	0	5	0	0	130
161	0	0	0	0	0	0	0	0	1	0	170
181	0	0	48	0	0	0	0	0	0	0	190
221	0	0	0	0	0	6	2	0	0	1	230
231	0	0	0	0	0	0	2	0	1	0	240
241	0	0	0	0	0	0	0	4	0	0	250
281	0	0	0	0	0	1	0	0	0	0	290
291	0	0	1	0	1	0	0	0	0	0	300
341	0	44	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	12	0	0	360
391	0	0	0	0	1	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	184	0	410
451	0	0	0	0	0	0	2	0	0	0	460
461	0	0	0	0	1	0	0	0	0	0	470
481	0	0	0	2	0	0	0	0	0	0	490
491	0	0	83	0	0	0	0	1	1	0	500
501	0	7	0	0	0	0	0	0	0	0	510
511	0	15	1211	0	3	0	0	0	6	0	520
521	18	28	90	1	485	20	2	142	0	0	530
531	0	43	7	112	0	0	1	3	105	199	540
541	375	1196	1209	1338	308	855	837				

ORIGIN ZONE 238 PURPOSE 1 55 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	54	0	0	1	0	0	0	0	530

ORIGIN ZONE 239 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 240 PURPOSE 1 23 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	3	0	0	0	0	0	60
191	0	0	0	1	0	0	0	0	0	0	200
511	0	0	0	0	0	0	0	0	1	0	520
521	0	0	0	0	1	0	0	0	0	0	530
531	0	0	0	0	0	0	2	0	0	0	540
541	0	0	0	0	0	1	14				

ORIGIN ZONE 241 PURPOSE 1 30 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
511	0	0	0	0	0	0	0	0	7	0	520
541	1	1	8	0	0	0	13	0			
ORIGIN ZONE 242	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 243	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 244	PURPOSE 1		213 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	57	0	0	0	0	0	60
541	0	2	0	0	0	3	21				
ORIGIN ZONE 245	PURPOSE 1		51 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	1	0	0	3	0	0	530
531	0	0	0	0	0	0	0	3	3	1	540
541	35	0	0	0	1	2	8				
ORIGIN ZONE 246	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 247	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 248	PURPOSE 1		131 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
501	5	0	0	0	0	0	0	0	0	0	510
531	0	0	0	0	0	0	0	0	16	0	540
541	0	1	0	0	0	7	102				
ORIGIN ZONE 249	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 250	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 251	PURPOSE 1		0 TOTAL ORIG/PROD								

ORIGIN ZONE	252	PURPOSE	1	151 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161		1	0	0	0	0	0	0	0	0	0	170
331		0	0	0	0	0	0	1	0	0	0	340
421		0	0	0	1	0	0	0	0	0	0	430
441		0	1	0	0	0	0	0	0	0	0	450
491		0	0	1	0	0	0	0	0	0	0	500
531		0	0	0	0	0	0	34	0	0	0	540
541		51	0	0	0	0	1	60				

ORIGIN ZONE 253 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 254 PURPOSE 1 9 TOTAL ORIG/PROD

TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541		0	0	0	0	0	0	9				

ORIGIN ZONE 255 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 256 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 257 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 258 PURPOSE 1 126 TOTAL ORIG/PROD

TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531		1	0	0	0	0	0	3	0	0	0	540
541		2	0	0	0	0	95	25				

ORIGIN ZONE 259 PURPOSE 1 9 TOTAL ORIG/PROD

TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541		0	0	0	0	0	0	9				

ORIGIN ZONE 260 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 261 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE	262	PURPOSE	1	1826 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
11	0	2	0	0	0	0	0	0	0	0	20		
61	0	0	0	0	0	2	0	0	0	0	70		
211	0	0	0	0	0	17	0	0	0	0	220		
281	0	0	0	0	0	0	8	0	0	0	290		
381	0	0	0	0	0	0	0	25	0	0	390		
491	0	0	45	0	0	0	0	0	35	0	500		
501	528	0	0	0	0	0	0	0	0	0	510		
511	0	10	2	0	0	0	0	0	0	0	520		
521	0	0	0	0	13	24	2	4	0	0	530		
531	0	0	0	3	0	0	3	1	6	39	540		
541	30	26	14	16	28	788	155						

ORIGIN ZONE 263 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 264 PURPOSE 1 155 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	0	1	0	0	0	70
101	0	0	0	0	0	0	0	0	1	0	110
181	0	0	3	0	0	0	0	0	0	0	190
221	0	0	0	0	0	1	0	0	0	0	230
391	0	0	0	0	1	0	0	0	0	0	400
401	0	0	1	0	0	0	0	0	1	0	410
491	0	0	1	0	0	0	0	0	0	0	500
511	0	1	0	0	0	0	0	0	0	0	520
521	0	0	0	0	0	0	0	0	0	2	530
531	0	0	2	0	0	0	0	0	1	9	540
541	28	5	0	0	0	43	54				

ORIGIN ZONE 265 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 266 PURPOSE 1 866 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
181	0	0	213	0	0	0	0	0	0	0	190
491	0	0	1	0	0	0	0	0	0	0	500
501	1	0	0	0	0	0	0	0	0	0	510
511	0	87	1	0	0	0	0	0	0	0	520
521	0	4	0	0	6	1	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	1	540
541	9	179	67	56	1	64	175				

ORIGIN ZONE	267	PURPOSE	1	32 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	1	0	0	0	0	530
531	0	0	0	0	21	0	0	0	0	0	540
541	0	0	0	4	4	2	0	0	0	0	

ORIGIN ZONE	268	PURPOSE	1	5 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	5	0	0	0	0	0	0	

ORIGIN ZONE	269	PURPOSE	1	115 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
261	0	4	0	0	0	0	0	0	0	0	270
501	0	1	0	0	0	0	0	0	0	0	510
531	0	0	0	0	44	0	0	0	0	3	540
541	5	2	0	0	0	17	39	0	0	0	

ORIGIN ZONE	270	PURPOSE	1	1 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	1	0	0	0	

ORIGIN ZONE	271	PURPOSE	1	50 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	20	0	10
161	1	0	0	0	0	0	0	0	0	0	170
221	0	0	0	0	0	21	0	0	0	0	230
531	0	0	0	0	0	0	0	0	0	1	540
541	0	2	0	0	0	2	3	0	0	0	

ORIGIN ZONE	272	PURPOSE	1	22 TOTAL ORIG/PROD							TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161	1	0	0	0	0	0	0	0	0	0	170
531	0	0	0	0	0	0	0	0	0	1	540
541	0	0	0	0	0	5	15	0	0	0	

ORIGIN ZONE	273	PURPOSE	1	0 TOTAL ORIG/PROD							TO ZONE
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ORIGIN ZONE 274 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 275 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 276 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 277 PURPOSE 1 61 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
291	7	0	0	0	0	0	0	0	0	0	300
351	0	0	0	0	0	0	0	0	0	2	360
501	20	0	0	0	0	0	0	0	0	0	510
521	0	0	0	0	0	0	27	0	0	0	530
531	0	0	0	1	0	0	0	0	0	0	540
541	0	1	0	0	0	1	2	0	0	0	

ORIGIN ZONE 278 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 279 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 280 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	0	0	0	1	0	0	0	500

ORIGIN ZONE 281 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 282 PURPOSE 1 11 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
291	11	0	0	0	0	0	0	0	0	0	300

ORIGIN ZONE 283 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	0	1	0	0	0	530

ORIGIN ZONE 284 PURPOSE 1 100 TOTAL ORIG/PROD

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
PENN CENTRAL RR 100 PERCENT SAMPLE
CARLOADS OF FREIGHT SHIPPED

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
531	0	0	0	0	0	0	1	0	71	1	540
541	1	2	0	0	0	21	3				
ORIGIN ZONE 285	PURPOSE 1	9 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
281	0	0	0	0	0	1	0	0	0	0	290
491	0	0	0	1	0	0	0	0	0	0	500
531	0	0	0	1	0	0	0	0	0	1	540
541	0	0	0	0	0	2	3				
ORIGIN ZONE 286	PURPOSE 1	19063 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	1	0	0	0	0	70
121	0	0	0	0	0	0	0	1	0	0	130
171	0	0	0	0	0	0	0	0	6	0	180
181	6	0	0	0	0	0	0	0	0	0	190
261	0	5	0	0	0	0	0	0	0	0	270
281	0	0	0	0	0	0	73	7	2	0	290
321	0	0	83	0	0	0	0	0	0	0	330
351	0	0	0	0	0	0	0	15	0	0	360
361	0	0	0	67	0	0	0	0	0	0	370
391	0	0	0	0	0	0	0	0	15	0	400
401	0	0	0	0	0	0	0	0	1	0	410
491	0	0	3163	2	14	2	2	1	1027	3	500
501	78	0	0	0	0	0	0	0	270	0	510
511	6	1796	1	0	0	0	0	0	0	0	520
521	0	0	2	0	1642	30	0	23	0	6	530
531	4	0	43	31	70	0	58	3	1566	75	540
541	507	1582	3523	921	320	1990	20				
ORIGIN ZONE 287	PURPOSE 1	3283 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
211	0	0	0	0	0	1	0	0	0	0	220
281	0	0	0	0	0	35	3	43	0	0	290
321	0	0	5	0	0	0	0	0	0	0	330
361	0	0	0	392	0	0	0	0	0	0	370
481	0	0	0	1	0	0	0	0	0	0	490
491	0	0	351	11	0	9	0	0	0	0	500
501	247	0	0	0	0	0	0	0	0	0	510
511	0	261	1	0	0	0	0	0	0	0	520
521	0	1	0	0	255	0	1	0	0	5	530

-CONTINUED-

531	0	0	0	0	0	0	0	0	109	2	540
541	70	224	347	315	132	462	0	0			
ORIGIN ZONE 288	PURPOSE 1	16 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
281	0	0	0	0	0	2	14	0	0	0	290
ORIGIN ZONE 289	PURPOSE 1	61 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	37	24				
ORIGIN ZONE 290	PURPOSE 1	54 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	1	0	0	0	0	0	0	0	0	0	60
161	10	0	0	0	0	0	0	0	0	0	170
531	0	0	0	0	0	0	0	0	0	0	540
541	0	0	0	0	0	7	29			7	
ORIGIN ZONE 291	PURPOSE 1	1561 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	9	60	0	0	0	230
231	0	0	1	0	0	0	0	0	0	0	240
451	0	0	0	0	0	0	0	0	8	0	460
491	0	0	1	0	0	0	0	0	0	0	500
511	2	76	0	0	0	0	0	0	0	0	520
521	0	0	0	0	1	14	25	0	0	0	530
531	0	0	7	133	0	0	0	355	75	70	540
541	16	9	0	0	0	264	435				
ORIGIN ZONE 292	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 293	PURPOSE 1	69 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	5	46	0	0	4	14				

-CONTINUED-

531	0	0	13	1	0	0	0	0	1	15	540
541	0	0	0	0	0	51	79				

ORIGIN ZONE 312 PURPOSE 1 6 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	0	1	0	0	0	0	0	500
531	0	0	0	0	0	0	0	1	0	1	540
541	0	0	0	0	0	3	0				

ORIGIN ZONE 313 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	1				

ORIGIN ZONE 314 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	0				

ORIGIN ZONE 315 PURPOSE 1 4133 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	0	1	0	0	0	0	0	0	0	20
21	0	0	0	0	0	0	0	0	117	0	30
41	0	0	0	3	0	0	0	0	0	0	50
211	0	0	0	0	0	1	0	0	0	0	220
221	0	0	0	0	0	10	33	0	0	0	230
261	0	0	0	0	0	0	12	2	0	0	270
351	0	0	0	0	0	0	0	8	0	0	360
381	0	0	1	0	0	0	0	0	0	0	390
431	0	0	1	0	0	0	0	0	0	0	440
491	0	0	91	0	1	0	103	0	0	0	500
501	0	0	0	0	0	0	0	0	11	0	510
511	0	0	4	0	0	9	0	0	13	0	520
521	2	4	40	0	28	42	2	4	0	0	530
531	8	17	46	44	0	0	22	4	30	413	540
541	27	9	12	12	1	1756	1189				

ORIGIN ZONE 316 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE	PURPOSE	TOTAL ORIG/PROD										TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
317	1	3										
541		0	0	0	0	0	0	3				
318	1	0										
319	1	16										
541		0	0	0	0	0	1	15				
320	1	1										
501		0	0	0	0	0	0	0	1	0	0	510
321	1	0										
322	1	0										
323	1	9192										
51		0	0	0	0	2	0	0	0	0	0	60
101		0	0	2	0	0	0	0	0	1	0	110
121		0	0	0	0	0	0	0	4	0	0	130
151		2	0	0	0	0	0	0	0	0	0	160
161		0	0	0	0	0	0	0	0	1	0	170
221		0	0	0	0	0	5	28	0	0	0	230
231		0	0	0	0	0	0	9	0	0	0	240
271		0	0	0	0	0	0	0	0	0	1	280
281		0	0	0	0	0	2	0	0	0	0	290
291		0	0	0	0	0	0	0	0	3	0	300
321		0	0	1	0	0	0	0	0	0	0	330
341		0	12	0	0	0	0	0	0	0	0	350
401		0	0	0	0	0	0	0	1	1	0	410
411		0	0	0	1	0	0	0	0	0	0	420
441		0	3	0	0	0	0	0	0	0	0	450
451		0	1	0	0	0	0	0	0	1	0	460
481		0	0	0	0	0	12	0	0	0	0	490
491		0	0	46	1	3	0	1	0	467	1	500

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

501	410	0	0	0	0	0	0	0	1	0	510
511	0	963	16	0	1	1	0	0	0	0	520
521	13	26	20	21	624	71	16	5	0	2	530
531	0	2	162	48	181	0	6	0	731	130	540
541	252	1070	1459	558	332	1073	386				

ORIGIN ZONE 324 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 325 PURPOSE 1 43 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	2	0	0	1	540
541	8	0	0	0	0	28	4				

ORIGIN ZONE 326 PURPOSE 1 971 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	1	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	64	540
541	187	605	22	0	0	56	36				

ORIGIN ZONE 327 PURPOSE 1 8 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
181	0	0	1	0	0	0	0	0	0	0	190
511	0	1	0	0	0	0	0	0	0	0	520
521	0	0	0	0	0	1	0	0	0	0	530
541	0	0	1	1	0	1	2				

ORIGIN ZONE 328 PURPOSE 1 86 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161	3	0	0	0	0	0	0	0	0	0	170
321	0	0	11	0	0	0	0	0	0	0	330
531	0	0	0	0	0	0	0	0	0	4	540
541	2	0	0	0	0	27	39				

ORIGIN ZONE 329 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 330 PURPOSE 1 135 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
161	2	0	0	0	0	0	0	0	0	0	170
321	0	0	3	0	0	0	0	0	0	0	330
481	0	0	0	1	0	0	0	0	0	0	490
491	0	0	1	0	0	0	0	0	0	0	500
501	1	0	0	0	0	0	0	0	0	0	510
531	0	0	0	3	0	0	10	0	0	0	540
541	12	0	0	0	0	46	56	0	0	0	
ORIGIN ZONE 331	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 332	PURPOSE 1		68 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	2	45	0	0	0	
ORIGIN ZONE 333	PURPOSE 1		175 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
331	0	0	2	0	0	0	0	0	0	0	340
491	0	0	3	0	0	0	0	0	0	0	500
511	0	0	2	0	0	0	0	0	0	0	520
531	0	0	0	0	0	0	0	1	0	0	540
541	0	0	61	79	27	0	0	0	0	0	
ORIGIN ZONE 334	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 335	PURPOSE 1		612 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	2	0	0	0	0	530
531	0	0	0	0	0	0	0	0	6	62	540
541	3	4	0	0	0	398	137	0	0	0	
ORIGIN ZONE 336	PURPOSE 1		16 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	1	0	540
541	0	0	0	0	0	4	11	0	0	0	
ORIGIN ZONE 337	PURPOSE 1		33 TOTAL ORIG/PROD								

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
161	0	0	1	0	0	0	0	0	0	0	170
541	0	0	0	0	0	3	29				
ORIGIN ZONE 338	PURPOSE 1	54 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	2	0	0	0	0	0	0	0	500
531	0	0	6	0	0	0	1	0	0	14	540
541	0	0	0	0	0	5	26				
ORIGIN ZONE 339	PURPOSE 1	6 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	4	0	0	0	0	0	530
541	0	2	0	0	0	0	0				
ORIGIN ZONE 340	PURPOSE 1	6 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	3	3				
ORIGIN ZONE 341	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 342	PURPOSE 1	1091 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	0	0	0	1	0	0	0	40
51	0	0	0	0	1	0	0	0	0	0	60
61	0	0	0	0	0	1	0	0	0	0	70
121	0	0	0	1	0	0	0	0	0	0	130
151	1	0	0	0	0	0	0	0	0	0	160
221	0	0	0	0	0	78	0	0	0	0	230
391	0	0	0	0	1	0	0	0	0	0	400
491	0	0	2	0	0	0	1	0	0	0	500
521	4	1	1	0	11	10	1	4	0	0	530
531	0	0	81	16	0	0	7	21	46	149	540
541	16	36	71	33	3	191	302				
ORIGIN ZONE 343	PURPOSE 1	0 TOTAL ORIG/PROD									

CONTROL DATA 6600
 TRANPLAN SYSTEM
 VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

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ORIGIN ZONE 344 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 345 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 346 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 347 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 348 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 349 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 350 PURPOSE 1 189 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	14	0	0	0	0	230
461	0	0	0	0	1	0	0	0	0	0	470
531	0	6	0	69	0	0	0	8	4	0	540
541	0	0	0	0	0	7	88				

ORIGIN ZONE 351 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 352 PURPOSE 1 4 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	0	0	0	0	0	0	1	540
541	0	0	0	0	0	0	3				

ORIGIN ZONE 353 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 354 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 355 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 356 PURPOSE 1 4 TOTAL ORIG/PROD

TROL DATA 6600
 ANPLAN SYSTEM
 ERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

PAGE NO. 50
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 TIME 08.17.53

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

541 0 0 0 -CONTINUED- 0 0 4

ORIGIN ZONE 357 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 358 PURPOSE 1 3733 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

61	0	0	0	0	0	2	0	0	0	0	0	70
181	0	0	1	0	0	0	0	0	0	0	0	190
231	0	0	0	0	0	0	11	0	0	0	0	240
481	0	0	2	446	0	0	0	0	0	0	0	490
491	0	0	130	0	0	0	0	0	0	0	0	500
531	2	0	59	6	1	0	0	0	1	110	105	540
541	90	1	2	1	0	212	2551					

ORIGIN ZONE 359 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 360 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

541 0 0 0 0 0 1 0

ORIGIN ZONE 361 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

531 0 0 0 1 0 0 0 0 0 0 540

ORIGIN ZONE 362 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 363 PURPOSE 1 10 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

481	0	0	0	1	0	0	0	0	0	0	0	490
531	0	0	0	0	0	0	1	0	2	0	0	540
541	0	0	0	0	0	4	2					

ORIGIN ZONE 364 PURPOSE 1 3195 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

-CONTINUED-

281	0	0	0	0	0	17	88	0	0	0	290
511	0	4	0	0	0	0	0	0	0	0	520
521	0	0	0	0	0	0	1	0	0	0	530
531	1	0	0	53	0	0	0	0	27	0	540
541	0	0	0	1	0	2098	905				

ORIGIN ZONE	365	PURPOSE	1	1 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
	541	0	0	0	0	0	0	1				

ORIGIN ZONE	366	PURPOSE	1	0 TOTAL ORIG/PROD								
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ORIGIN ZONE	367	PURPOSE	1	0 TOTAL ORIG/PROD								
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ORIGIN ZONE	368	PURPOSE	1	30 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
	521	0	0	0	0	0	0	0	0	3	530	
	541	0	0	0	0	0	23	4				

ORIGIN ZONE	369	PURPOSE	1	0 TOTAL ORIG/PROD								
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ORIGIN ZONE	370	PURPOSE	1	211 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
	231	0	0	0	0	0	3	0	0	0	240	
	531	0	0	0	0	0	0	0	0	85	540	
	541	0	0	0	0	0	123					

ORIGIN ZONE	371	PURPOSE	1	1 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
	541	0	0	0	0	0	0	1				

ORIGIN ZONE	372	PURPOSE	1	0 TOTAL ORIG/PROD								
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ORIGIN ZONE	373	PURPOSE	1	11 TOTAL ORIG/PROD								
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MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
541	0	0	0	0	0	0	11				
ORIGIN ZONE 374	PURPOSE 1										7 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	3	1	1	0	1	1				
ORIGIN ZONE 375	PURPOSE 1										2 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	1	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	1	540
ORIGIN ZONE 376	PURPOSE 1										18 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	12	6				
ORIGIN ZONE 377	PURPOSE 1										26 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
231	0	0	0	0	0	0	0	1	0	0	240
531	0	0	0	0	0	0	0	0	0	5	540
541	0	0	0	0	0	7	13				
ORIGIN ZONE 378	PURPOSE 1										0 TOTAL ORIG/PROD
ORIGIN ZONE 379	PURPOSE 1										0 TOTAL ORIG/PROD
ORIGIN ZONE 380	PURPOSE 1										113 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
371	0	0	0	0	0	0	0	0	0	14	380
531	0	0	0	52	0	0	0	0	0	35	540
541	1	3	2	1	1	0	4				
ORIGIN ZONE 381	PURPOSE 1										0 TOTAL ORIG/PROD

ORIGIN ZONE 382 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 383 PURPOSE 1 258 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	0	2	0	0	0	230
521	0	0	0	0	0	0	0	0	18	0	530
531	0	0	0	34	0	0	0	0	171	2	540
541	0	0	0	0	0	31	0	0	0	0	

ORIGIN ZONE 384 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 385 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 386 PURPOSE 1 598 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	0	0	1	0	0	70
451	0	0	0	0	0	0	1	0	0	0	460
491	0	0	28	5	0	0	0	0	0	0	500
521	0	0	0	0	0	0	3	0	0	0	530
531	0	1	3	28	0	0	0	3	1	0	540
541	0	7	0	0	0	200	317	0	0	0	

ORIGIN ZONE 387 PURPOSE 1 8 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	8	0	0	0	

ORIGIN ZONE 388 PURPOSE 1 3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
531	0	0	0	0	0	0	0	0	0	1	540
541	0	0	0	0	0	0	1	0	0	0	

ORIGIN ZONE 389 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 390 PURPOSE 1 2 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
541	0	0	1	1	0	0	0				
ORIGIN ZONE 391	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 392	PURPOSE 1		1501 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	0	0	0	11	0	0	50
161	0	0	0	0	0	0	9	0	0	0	170
221	0	0	0	0	0	0	0	0	0	0	230
231	0	0	0	0	0	0	38	0	0	0	240
241	0	0	0	0	0	0	0	0	0	0	250
281	0	0	0	0	0	0	0	0	0	0	290
311	7	0	0	0	0	0	0	0	0	0	320
371	0	0	0	0	0	0	0	0	0	1	380
391	0	0	0	0	1	0	0	0	0	0	400
511	0	0	1	0	0	0	0	0	1	0	520
521	0	140	8	0	104	0	0	0	0	25	530
531	0	0	0	81	0	0	3	0	28	147	540
541	15	106	12	3	31	297	394				
ORIGIN ZONE 393	PURPOSE 1		0 TOTAL ORIG/PROD								
ORIGIN ZONE 394	PURPOSE 1		16 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	1	12	1	0	2	0				
ORIGIN ZONE 395	PURPOSE 1		609 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	1	0	0	0	0	530
531	0	0	1	1	0	0	2	0	61	16	540
541	40	0	0	0	0	480	7				
ORIGIN ZONE 396	PURPOSE 1		1 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	1				

CONTROL DATA 6600
 TRANPLAN SYSTEM
 VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

PAGE NO. 55
 DATE 13 OCT 75
 TIME 08.17.53

ORIGIN ZONE	PURPOSE	TOTAL ORIG/PROD										TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
397	1	3										
541		0	0	0	0	0	2	1				
398	1	0										
399	1	11										
231		0	0	0	0	0	0	1	0	0	0	240
531		0	0	0	0	0	0	0	0	0	3	540
541		0	0	0	0	0	7	0				
400	1	1										
541		0	0	0	0	0	0	1				
401	1	0										
402	1	0										
403	1	29										
531		0	0	0	0	0	0	0	0	14	0	540
541		0	0	0	0	0	0	15				
404	1	110										
461		0	0	0	0	0	0	0	0	31	0	470
531		0	0	0	1	0	0	0	69	0	1	540
541		8	0	0	0	0	0	0				
405	1	0										
406	1	9										

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

541 0 0 0 0 0 6 3
 -CONTINUED-

ORIGIN ZONE 407 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 408 PURPOSE 1 187 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

41 0 0 0 1 0 0 0 0 0 0 50
 531 0 0 0 0 0 0 0 0 0 186 540

ORIGIN ZONE 409 PURPOSE 1 4268 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

1 0 0 0 0 0 0 0 0 1 0 10
 51 12 0 2 0 65 0 0 0 0 0 60
 61 0 0 0 0 0 57 0 0 0 0 70
 71 0 0 0 0 0 0 0 1 0 0 80
 121 0 0 0 0 0 0 0 2 0 0 130
 161 8 0 0 0 0 0 0 0 0 0 170
 311 0 0 0 0 1 0 0 0 0 0 320
 481 0 0 23 76 0 0 0 0 0 0 490
 491 0 0 3 0 0 0 0 0 0 0 500
 511 0 2 19 0 0 0 0 0 0 0 520
 521 0 3 1 0 14 11 0 0 0 1 530
 531 1 3 3 47 7 4 4 6 190 25 540
 541 50 11 9 0 4 707 2895

ORIGIN ZONE 410 PURPOSE 1 2 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

541 0 0 0 0 0 1 1

ORIGIN ZONE 411 PURPOSE 1 940 TOTAL ORIG/PROD

TO ZONE -1- -2- -3- -4- -5- -6- -7- -8- -9- -0- TO ZONE

61 0 0 0 0 0 1 0 0 0 0 70
 161 5 0 0 0 0 0 0 0 0 0 170
 261 0 1 0 0 0 0 0 0 0 0 270
 491 0 0 1 0 0 0 0 0 0 0 500
 501 0 0 0 0 0 0 0 0 1 0 510
 511 0 76 154 0 0 0 0 0 0 0 520
 521 2 2 7 15 31 2 1 0 0 0 530

-CONTINUED-

531	2	0	1	3	0	0	8	0	30	13	540
541	96	5	0	0	0	159	324				
ORIGIN ZONE 412	PURPOSE 1	264 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
21	0	0	0	0	0	0	0	0	8	0	30
491	0	0	199	0	0	0	2	0	0	0	500
531	0	0	0	0	0	0	20	0	5	0	540
541	0	0	0	0	0	29	1				
ORIGIN ZONE 413	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 414	PURPOSE 1	27 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
411	0	0	0	0	0	0	0	1	0	0	420
531	0	0	0	0	0	0	0	0	0	1	540
541	0	0	0	0	0	16	9				
ORIGIN ZONE 415	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 416	PURPOSE 1	6 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
481	0	0	1	4	0	0	0	0	0	0	490
541	0	0	0	0	0	0	1				
ORIGIN ZONE 417	PURPOSE 1	9 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	6	3				
ORIGIN ZONE 418	PURPOSE 1	13 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161	1	0	0	0	0	0	0	0	0	0	170
221	0	0	0	0	0	0	0	0	0	1	230
541	0	0	0	0	0	0	11				

ORIGIN ZONE	419	PURPOSE 1		5 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
261		0	0	0	1	0	0	0	0	0	0	270
531		0	0	0	4	0	0	0	0	0	0	540

ORIGIN ZONE	420	PURPOSE 1		93 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
21		0	0	0	0	0	0	0	0	1	0	30
51		0	0	0	0	6	0	0	0	0	0	60
221		0	0	0	0	0	0	0	0	0	3	230
401		0	0	0	0	0	0	0	0	11	0	410
531		0	0	0	1	0	1	9	0	0	1	540
541		0	0	0	8	0	1	51	0	0	0	

ORIGIN ZONE	421	PURPOSE 1		0 TOTAL ORIG/PROD							
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ORIGIN ZONE	422	PURPOSE 1		1 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
391		0	1	0	0	0	0	0	0	0	0	400

ORIGIN ZONE	423	PURPOSE 1		291 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
451		0	0	0	0	0	0	0	0	0	5	460
531		0	0	0	8	0	0	0	0	4	4	540
541		0	0	0	1	0	182	87	0	0	0	

ORIGIN ZONE	424	PURPOSE 1		18 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
531		0	1	0	0	0	0	0	0	0	0	540
541		0	0	0	0	0	4	13	0	0	0	

ORIGIN ZONE	425	PURPOSE 1		6 TOTAL ORIG/PROD								TO ZONE
		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
531		0	0	0	1	0	0	0	0	0	1	540
541		0	0	0	0	0	3	1	0	0	0	

ORIGIN ZONE	426	PURPOSE	1	0 TOTAL ORIG/PROD							
ORIGIN ZONE	427	PURPOSE	1	110 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	10	0	0	0	0	0	0	540
541	0	0	0	0	0	32	68	0	0	0	
ORIGIN ZONE	428	PURPOSE	1	14 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	1	13				
ORIGIN ZONE	429	PURPOSE	1	23 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
481	0	0	0	0	0	0	0	0	0	19	490
531	0	0	0	0	0	0	0	0	0	3	540
541	0	0	0	0	0	0	1				
ORIGIN ZONE	430	PURPOSE	1	72 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
221	0	0	0	0	0	3	0	0	0	0	230
231	0	0	0	0	0	0	10	0	0	0	240
291	4	0	0	0	0	0	0	0	0	0	300
491	0	0	1	0	0	0	0	0	0	0	500
531	0	1	5	0	0	0	0	0	0	2	540
541	0	0	0	0	0	26	20				
ORIGIN ZONE	431	PURPOSE	1	13 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
291	13	0	0	0	0	0	0	0	0	0	300
ORIGIN ZONE	432	PURPOSE	1	29 TOTAL ORIG/PROD							
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
291	28	0	0	0	0	0	0	0	0	0	300
541	0	0	0	0	0	1	0				

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

ORIGIN ZONE	433	PURPOSE	1	280 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
61	0	0	0	0	0	22	1	0	0	0	70		
151	0	0	0	0	0	1	0	0	0	0	160		
181	0	0	2	0	0	0	0	0	0	0	190		
211	0	0	0	0	0	21	0	0	0	0	220		
231	0	0	0	0	0	0	1	0	0	0	240		
261	0	0	0	3	0	0	0	0	0	0	270		
321	0	0	1	0	0	0	0	0	0	0	330		
381	0	0	0	0	0	0	0	1	0	0	390		
451	0	2	0	0	0	0	0	0	0	0	460		
491	0	0	20	1	0	0	0	0	0	0	500		
511	0	1	0	0	0	0	0	0	0	0	520		
521	0	0	0	0	1	0	0	0	0	0	530		
531	0	1	0	1	0	0	0	0	29	9	540		
541	2	21	22	2	0	10	14						

ORIGIN ZONE	434	PURPOSE	1	1 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	1	0	0	0	0	0	0	0			

ORIGIN ZONE	435	PURPOSE	1	16 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
221	0	0	0	0	0	0	0	0	0	1	230		
531	0	0	0	0	0	0	0	0	0	1	540		
541	0	0	0	0	0	8	6						

ORIGIN ZONE	436	PURPOSE	1	14 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
541	0	0	0	0	0	0	14						

ORIGIN ZONE	437	PURPOSE	1	0 TOTAL ORIG/PROD									
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ORIGIN ZONE	438	PURPOSE	1	5 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	0	0	0	0	0	0	0	0	2	540		
541	0	0	0	0	0	0	3						

ORIGIN ZONE	439	PURPOSE	1	75 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	51	0	0	0	0	26	0	0	0	0	0	60
	531	0	0	0	0	0	0	0	0	0	8	540
	541	0	0	0	1	0	6	34				
ORIGIN ZONE	440	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	441	PURPOSE	1	39 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	161	2	0	0	0	0	0	0	0	0	0	170
	221	0	0	0	0	0	0	0	0	0	1	230
	531	0	0	0	0	0	0	0	0	0	8	540
	541	0	0	0	0	0	27	1				
ORIGIN ZONE	442	PURPOSE	1	2990 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	251	0	1	0	0	0	0	0	0	0	0	260
	281	0	0	0	0	0	10	0	0	0	0	290
	491	0	0	26	0	1	0	0	0	0	0	500
	501	0	0	0	0	2	0	0	0	0	0	510
	521	0	0	0	0	16	48	38	7	0	0	530
	531	0	0	12	45	0	0	4	4	171	13	540
	541	62	37	6	3	1	969	1514				
ORIGIN ZONE	443	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	444	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	445	PURPOSE	1	0 TOTAL ORIG/PROD								
ORIGIN ZONE	446	PURPOSE	1	1 TOTAL ORIG/PROD								
TO ZONE		-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
	161	1	0	0	0	0	0	0	0	0	0	170
ORIGIN ZONE	447	PURPOSE	1	0 TOTAL ORIG/PROD								

ORIGIN ZONE	448	PURPOSE	1	11 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
541	0	0	0	0	0	0	0	0	0	11		

ORIGIN ZONE	449	PURPOSE	1	16 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
161	3	0	0	0	0	0	0	0	0	0	170	
531	0	0	0	0	0	0	0	0	0	0	5	
541	0	0	0	0	0	0	0	0	0	8	540	

ORIGIN ZONE	450	PURPOSE	1	0 TOTAL ORIG/PROD							
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ORIGIN ZONE	451	PURPOSE	1	30 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
161	6	0	0	0	0	0	0	0	0	0	170	
481	0	0	0	0	0	0	0	0	0	0	1	
531	0	0	0	0	0	0	0	0	0	0	4	
541	0	0	0	0	0	1	18	0	0	0	540	

ORIGIN ZONE	452	PURPOSE	1	1122 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
1	0	0	0	0	0	0	0	0	0	1	0	
231	0	0	0	0	0	0	0	0	0	0	0	
491	0	0	11	0	0	0	0	0	0	0	0	
511	0	0	0	0	0	0	0	0	0	0	2	
521	0	0	17	0	5	30	0	0	0	0	0	
531	0	0	4	0	0	0	0	0	0	2	76	
541	103	175	237	232	43	143	40	0	0	0	540	

ORIGIN ZONE	453	PURPOSE	1	17 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
521	0	0	6	0	0	0	0	0	0	0	0	
541	0	5	0	0	0	0	6	0	0	0	530	

ORIGIN ZONE	454	PURPOSE	1	193 TOTAL ORIG/PROD								
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	

-CONTINUED-

491	0	0	1	0	0	0	0	0	0	0	0	500
521	0	0	0	0	1	0	0	0	0	0	0	530
531	0	0	0	1	0	0	0	0	0	0	11	540
541	31	63	21	9	1	37	17					

ORIGIN ZONE 455 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 456 PURPOSE 1 3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
231	0	0	0	0	0	0	0	0	1	0	240
391	0	0	0	0	1	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	1	0	410

ORIGIN ZONE 457 PURPOSE 1 148 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
341	0	2	0	0	0	0	0	0	0	0	350
521	0	1	0	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	3	540
541	11	15	34	18	0	0	51	0	0	0	

ORIGIN ZONE 458 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 459 PURPOSE 1 2639 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
21	0	0	0	0	0	0	0	0	1	0	30
111	0	2	0	0	0	0	0	0	0	0	120
221	0	0	0	0	0	15	0	0	0	0	230
231	0	0	2	0	0	0	0	0	0	0	240
291	1	0	0	0	0	0	0	0	0	0	300
451	0	0	1	0	0	0	0	0	0	0	460
481	0	0	3	0	0	0	0	0	0	0	490
491	0	0	1	0	0	0	0	0	0	0	500
511	0	1	2	0	15	0	0	0	0	5	520
521	22	30	35	0	37	40	6	2	0	0	530
531	2	109	58	16	0	0	1	47	15	25	540
541	54	326	494	531	160	264	316	0	0	0	

ORIGIN ZONE 460 PURPOSE 1 675 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
261	0	1	0	0	0	0	0	0	0	0	270
401	0	0	0	0	0	0	0	0	2	0	410
461	0	0	0	0	0	0	0	1	0	0	470
511	0	0	53	0	0	0	0	0	0	0	520
521	3	0	12	1	4	2	0	0	0	0	530
531	0	0	20	3	0	0	0	43	64	26	540
541	5	18	10	2	0	226	179				

ORIGIN ZONE 461 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 462 PURPOSE 1 24 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	24				

ORIGIN ZONE 463 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 464 PURPOSE 1 8 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	1	0	0	0	0	0	0	0	1	540
541	0	0	0	0	0	1	5				

ORIGIN ZONE 465 PURPOSE 1 209 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	1	0	0	0	10
11	0	10	0	0	0	0	5	0	0	0	20
41	0	0	0	0	0	0	3	0	0	0	50
51	0	0	0	0	4	0	0	0	0	0	60
71	0	0	0	0	0	0	0	0	4	0	80
81	0	0	2	0	0	0	0	0	0	0	90
91	0	6	0	0	0	0	0	0	0	0	100
111	0	0	1	0	0	0	0	0	0	0	120
151	0	0	0	0	0	0	0	1	0	0	160
171	0	0	0	0	0	0	0	2	0	0	180
181	2	0	0	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	1	210
241	0	0	0	0	5	0	0	0	0	0	250
271	0	3	0	0	0	0	0	0	0	0	280
301	0	0	2	0	0	0	0	0	0	0	310
1			0		0			0			20

-CONTINUED-

331	0	0	0	0	0	0	0	0	0	0	1	340
351	0	2	0	0	0	0	0	0	0	0	0	360
371	0	0	0	0	3	0	0	0	0	0	1	380
381	0	0	0	0	0	0	0	0	3	0	0	390
401	0	0	0	0	0	0	0	0	0	20	0	410
421	0	0	0	2	0	0	0	0	7	0	2	430
451	0	0	0	0	0	0	3	0	0	0	4	460
471	0	0	0	1	0	0	0	0	0	0	0	480
491	0	0	0	0	0	0	0	0	0	6	0	500
531	0	0	0	5	0	0	3	0	0	0	1	540
541	2	1	2	2	2	34	2	38	0	0	0	

ORIGIN ZONE	466	PURPOSE	1	56 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
161	1	0	0	0	0	0	0	0	0	0	170		
221	0	0	0	0	0	0	0	0	0	0	230		
531	0	0	0	5	0	0	0	0	0	0	540		
541	0	0	0	0	0	8	33	0	0	3			

ORIGIN ZONE	467	PURPOSE	1	28 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	0	0	3	0	0	0	0	0	0	540		
541	0	0	0	0	0	2	23	0	0	0			

ORIGIN ZONE	468	PURPOSE	1	229 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
531	0	45	3	28	0	0	0	0	73	16	540		
541	0	0	0	0	0	59	5	0	0	0			

ORIGIN ZONE	469	PURPOSE	1	64 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
401	0	0	0	0	0	0	0	0	11	0	410		
411	0	0	0	0	0	0	0	0	0	1	420		
531	0	1	0	1	0	0	0	2	1	0	540		
541	0	1	0	0	0	31	15	0	0	0			

ORIGIN ZONE	470	PURPOSE	1	158 TOTAL ORIG/PROD									
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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
51	6	0	0	0	0	0	0	0	0	0	60
181	0	0	1	0	0	0	0	0	0	0	190
261	0	0	0	1	0	0	0	0	0	0	270
401	0	0	0	0	0	0	0	0	1	0	410
461	0	0	0	0	1	0	0	0	0	0	470
481	0	0	0	0	0	0	0	0	0	0	490
511	0	0	2	0	0	0	0	0	0	0	520
521	0	0	0	0	1	0	0	0	0	0	530
531	0	0	0	3	0	1	0	24	0	2	540
541	0	5	3	5	0	26	57				
ORIGIN ZONE 471	PURPOSE 1	9 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	0	0	0	0	0	8	0	500
521	0	0	0	0	0	0	0	0	0	1	530
ORIGIN ZONE 472	PURPOSE 1	60 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	6	0	0	0	0	0	530
541	0	7	23	6	2	6	10				
ORIGIN ZONE 473	PURPOSE 1	50 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
21	0	0	0	0	0	0	0	0	1	0	30
531	0	0	0	1	0	0	0	1	0	1	540
541	1	1	0	0	0	4	40				
ORIGIN ZONE 474	PURPOSE 1	0 TOTAL ORIG/PROD									
ORIGIN ZONE 475	PURPOSE 1	4 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	1	0	0	0	0	0	530
541	0	1	0	2	0	0	0				
ORIGIN ZONE 476	PURPOSE 1	0 TOTAL ORIG/PROD									

ORIGIN ZONE 477 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 478 PURPOSE 1 11 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	0	1	0	0	0	0	0	1	540
541	0	1	0	0	0	3	5				

ORIGIN ZONE 479 PURPOSE 1 43 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	1	0	0	0	0	0	0	0	500
501	2	0	0	0	0	0	0	0	0	0	510
521	0	0	0	0	5	0	6	0	0	0	530
531	0	0	0	0	0	0	0	0	2	0	540
541	0	1	1	1	0	19	5				

ORIGIN ZONE 480 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 481 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 482 PURPOSE 1 3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
501	1	0	0	0	0	0	0	0	0	0	510
541	0	0	2	0	0	0	0				

ORIGIN ZONE 483 PURPOSE 1 1515 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
121	0	0	0	0	0	0	0	31	0	0	130
281	0	0	0	0	0	0	1	0	0	0	290
321	0	0	1	0	0	0	0	0	0	0	330
351	0	0	0	0	0	0	0	2	0	0	360
481	0	0	0	0	0	2	0	0	0	0	490
491	0	0	45	0	1	0	0	0	208	0	500
501	0	0	0	0	0	0	0	0	55	0	510
511	0	209	0	0	0	0	0	0	0	0	520
521	0	17	0	0	77	6	0	0	0	0	530
531	0	0	5	16	19	0	7	0	4	1	540
541	50	169	251	111	49	148	30				

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

ORIGIN ZONE	484	PURPOSE	1	14452 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
21	0	0	0	0	0	0	0	0	0	0	30		
61	0	0	0	0	0	2	0	0	0	0	70		
121	0	0	0	0	0	0	0	384	0	0	130		
131	0	44	0	0	0	1	0	0	0	0	140		
151	0	0	0	0	0	0	0	0	0	0	160		
181	0	0	15	0	0	0	0	0	0	0	190		
211	0	0	0	0	0	1	0	0	0	0	220		
221	0	0	0	0	0	67	0	0	0	0	230		
231	0	0	0	0	0	0	5	0	0	0	240		
261	0	3	0	0	0	0	0	0	0	0	270		
321	0	0	21	0	0	0	0	0	0	0	330		
351	0	0	0	0	0	0	0	0	37	0	360		
401	0	0	0	0	0	0	0	0	0	0	410		
491	0	0	352	0	0	0	3	0	0	65	500		
501	0	4	0	0	0	0	0	0	126	4	510		
511	0	0	145	0	0	0	0	0	0	0	520		
521	0	2	353	0	9	270	79	0	0	1	530		
531	0	0	3	71	269	0	6	0	106	317	540		
541	911	890	585	256	56	6789	2159	0	0	0			

ORIGIN ZONE 485 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 486 PURPOSE 1 168 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
51	0	0	0	0	1	0	0	0	0	0	60
481	0	0	1	0	0	0	0	0	0	0	490
521	0	0	0	0	1	3	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	11	540
541	0	0	0	0	0	127	23	0	0	0	

ORIGIN ZONE 487 PURPOSE 1 1592 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	1	0	0	0	0	0	0	500
501	242	0	0	0	0	0	0	0	0	0	510
511	0	1	0	0	0	0	0	0	0	0	520
521	0	0	0	0	2	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	363	0	540
541	0	612	0	0	0	371	0	0	0	0	

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

211	0	0	0	0	0	16	0	0	0	0	220
221	0	0	0	0	0	123	0	0	0	0	230
231	0	0	0	0	0	19	278	0	0	0	240
241	0	0	0	0	0	0	0	17	0	0	250
251	0	3	0	0	0	1	0	0	0	0	260
261	0	0	0	0	0	0	2	0	0	0	270
281	0	0	0	0	0	58	87	0	0	0	290
291	2	0	0	0	0	0	0	1	292	0	300
301	0	1	0	0	0	0	0	0	0	0	310
311	0	0	0	0	2	0	0	0	0	0	320
321	0	0	1010	0	0	0	0	0	0	0	330
341	0	53	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	194	0	0	360
361	0	0	0	11	0	0	0	0	0	0	370
391	0	1	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	1	406	0	410
421	0	0	0	0	0	0	0	0	0	1	430
441	0	1	0	0	0	0	0	0	0	0	450
461	0	0	0	0	30	0	0	0	7	0	470
481	0	0	6	1222	0	0	0	0	0	0	490
491	0	0	5	37	0	2	47	4	829	1	500
501	150	0	0	0	0	0	0	0	1318	0	510
511	0	1134	631	0	0	0	0	0	44	0	520
521	34	234	666	18	6732	222	1174	8216	11	57	530
531	20	364	522	643	635	0	498	548	3970	2144	540
541	3569	7952	8806	5872	2548	19111	10476				

ORIGIN ZONE 494 PURPOSE 1 17908 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
211	0	0	0	0	0	1	0	0	0	0	220
271	0	0	0	0	0	0	0	0	0	1	280
281	0	0	0	0	0	0	23	0	0	0	290
321	0	0	1	0	0	0	0	0	0	0	330
491	0	0	31	0	1	0	0	0	0	0	500
501	0	1	0	0	0	0	0	0	1	0	510
511	0	197	0	0	0	0	0	0	1	0	520
521	0	0	0	0	94	29	14	1157	0	0	530
531	0	0	22	138	0	0	1	4	2973	795	540
541	82	4684	84	0	6	5251	2316				

ORIGIN ZONE 495 PURPOSE 1 22411 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10

-CONTINUED-

321	0	0	41	0	0	0	0	0	0	0	0	330
411	2	0	0	0	0	0	0	0	0	0	0	420
451	0	1	0	0	0	0	0	0	0	0	2	460
491	0	0	196	1	0	0	0	0	23	9	0	500
501	3	0	0	0	0	0	0	0	0	0	0	510
511	2	52	6	0	0	0	0	0	4	1	0	520
521	38	5	5	0	516	43	392	46	40	1	0	530
531	21	11	386	711	0	0	112	23	293	1848	0	540
541	440	8841	1478	399	2520	1441	545					

ORIGIN ZONE 498	PURPOSE 1	13 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
211	0	0	0	0	0	3	0	0	0	0	220
491	0	0	0	0	0	0	0	0	8	0	500
541	2	0	0	0	0	0	0				

ORIGIN ZONE 499	PURPOSE 1	6619 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	41	0	0	0	0	70
81	0	0	1	0	0	0	0	0	0	0	90
121	0	0	0	0	0	0	0	106	0	0	130
131	0	196	0	0	0	0	0	0	0	0	140
181	0	0	36	0	0	0	0	0	0	0	190
221	0	0	0	0	0	119	1	0	0	0	230
231	0	0	0	0	0	0	174	0	0	0	240
261	0	0	0	1	0	0	0	0	0	1	270
281	0	0	0	0	0	3	1	0	0	0	290
291	2	0	0	0	0	0	0	0	0	0	300
321	0	0	7	0	0	0	0	0	0	0	330
381	0	0	0	0	0	6	0	0	0	0	390
401	0	0	0	0	0	0	0	0	1	0	410
481	0	0	0	1	0	0	0	0	0	0	490
491	0	0	186	0	3	3	10	0	22	0	500
501	5	0	0	0	0	0	0	0	24	0	510
511	0	59	3	0	0	0	0	0	0	0	520
521	1	0	54	0	525	26	2	81	0	0	530
531	0	2	35	223	225	1	10	8	175	987	540
541	81	237	518	186	98	874	1258				

ORIGIN ZONE 500	PURPOSE 1	675 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE

-CONTINUED-

181	0	0	3	0	0	0	0	0	0	0	0	190
211	0	0	0	0	0	0	4	0	0	0	0	220
481	0	0	24	341	0	0	0	0	0	0	0	490
491	0	0	2	0	0	0	0	0	0	0	0	500
521	0	0	0	0	0	0	0	0	1	0	6	530
531	0	0	0	4	0	0	0	0	0	79	20	540
541	0	0	1	0	0	190	0	0	0	0	0	

ORIGIN ZONE	501	PURPOSE	1	6462 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
41	0	0	0	0	0	0	0	0	0	0	1	50	
211	0	0	0	0	0	0	1	0	0	0	0	220	
261	0	1	0	0	0	0	0	0	0	0	0	270	
281	0	0	0	0	0	1	9	23	0	0	0	290	
321	0	0	8	0	0	0	0	0	0	0	0	330	
481	0	0	0	0	0	0	0	6	0	0	0	490	
491	0	0	23	0	0	1	13	1	1	0	0	500	
501	1	3	0	0	0	0	0	0	0	25	0	510	
511	0	10	6	0	0	0	0	0	0	4	0	520	
521	0	1	409	0	63	3	3	9	9	0	0	530	
531	0	0	3	39	0	0	19	14	63	51	0	540	
541	19	2308	2582	215	46	104	374						

ORIGIN ZONE	502	PURPOSE	1	3831 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
221	0	0	1	0	0	4	0	0	0	0	0	230	
231	0	0	0	0	0	0	1	0	0	0	0	240	
281	0	0	0	0	0	2	0	0	0	0	0	290	
321	0	0	2	0	0	0	0	0	0	0	0	330	
491	0	0	1	0	0	0	1	0	0	0	0	500	
511	0	0	1	0	0	0	0	0	0	0	0	520	
521	0	0	0	0	0	11	0	0	0	0	0	530	
531	0	6	31	33	26	6	0	3	575	18	0	540	
541	7	1	0	4	0	1800	1297						

ORIGIN ZONE 503 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 504 PURPOSE 1 0 TOTAL ORIG/PROD

ORIGIN ZONE 505 PURPOSE 1 195 TOTAL ORIG/PROD

CONTROL DATA 6600
 TRANPLAN SYSTEM
 VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

PAGE NO. 75
 DATE 13 OCT 75
 TIME 08.17.53

-CONTINUED-

161	1	0	0	0	1	0	0	0	0	0	170
181	0	0	19	0	0	0	0	0	0	0	190
211	0	0	0	0	0	14	0	0	0	0	220
221	0	0	0	0	0	1	5	0	0	0	230
231	0	0	0	0	0	1	14	0	0	0	240
261	0	0	0	0	0	0	0	0	2	0	270
281	0	0	0	0	0	9	17	0	0	241	290
311	0	0	0	0	1	0	0	0	0	0	320
321	0	0	1	0	0	0	0	0	0	0	330
371	0	0	0	0	1	0	0	0	0	0	380
391	0	1	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	1	25	0	410
451	0	0	0	0	0	0	8	0	5	0	460
481	0	0	0	3	0	0	0	0	0	0	490
491	0	0	1451	1	3	0	65	0	156	0	500
501	456	0	0	0	0	0	0	0	0	0	510
511	7	0	0	0	0	0	0	0	0	0	520
521	0	0	3	0	193	6	8	8	1	7	530
531	170	60	16	104	0	0	19	14	1082	191	540
541	27	768	200	188	1183	1968	0				

ORIGIN ZONE 510 PURPOSE 1 878 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	1	0	0	0	10
11	0	0	0	0	0	0	0	0	0	0	20
21	0	0	0	0	0	0	0	1	0	0	30
31	0	0	1	0	0	0	0	0	0	0	40
41	3	0	0	0	0	0	8	2	0	0	50
51	0	0	3	0	0	0	0	0	0	0	60
61	0	0	0	0	0	0	0	1	0	0	70
111	0	0	1	0	0	0	0	0	0	0	120
181	0	0	18	0	0	0	0	0	0	0	190
221	0	0	0	0	0	1	15	0	0	0	230
231	0	0	2	0	0	0	0	0	0	4	240
241	0	0	0	0	2	0	0	0	0	0	250
251	0	3	0	0	0	0	0	0	0	0	260
261	0	3	0	4	0	7	0	0	0	0	270
301	0	0	0	0	0	0	0	0	0	2	310
371	0	0	0	0	0	0	0	0	0	1	380
391	0	2	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	1	0	0	410
411	0	0	0	0	0	0	0	0	0	12	420
431	0	0	1	0	0	0	0	0	6	0	440
451	0	0	0	2	0	1	0	0	0	0	460
461	0	0	0	0	34	0	0	0	5	0	470

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

471	0	4	0	0	7	0	0	0	0	0	480
481	0	0	1	0	0	0	0	0	0	0	490
501	13	0	0	0	0	0	0	0	0	0	510
521	0	0	0	0	0	12	0	0	0	0	530
531	8	41	100	2	3	2	5	41	41	218	540
541	0	1	2	0	0	220	0				

ORIGIN ZONE 511 PURPOSE 1 12830 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	5	0	10
11	0	0	12	0	0	2	0	0	0	0	20
21	0	0	0	0	0	0	0	0	50	0	30
41	0	0	0	0	5	0	0	0	0	0	50
51	0	0	5	0	1	0	0	0	0	0	60
61	0	0	0	0	1	0	0	1	0	0	70
71	10	0	0	0	0	0	0	0	20	0	80
101	12	0	0	0	0	0	0	0	0	0	110
121	0	0	0	1	0	0	0	0	0	0	130
151	2	0	0	0	1	0	0	0	0	0	160
161	1	0	0	0	0	0	0	0	0	0	170
181	0	0	5	0	0	0	0	0	0	0	190
191	0	0	0	1	0	0	0	0	0	0	200
211	0	0	0	0	0	57	0	0	0	0	220
221	0	0	0	0	0	1187	0	0	0	0	230
231	0	0	49	0	0	3	24	0	0	0	240
241	1	0	0	0	0	0	0	166	0	0	250
261	0	0	0	0	0	0	1	0	0	0	270
281	0	0	0	1	0	365	3	0	0	0	290
301	0	5	0	0	0	0	0	0	0	0	310
341	0	74	0	0	0	0	0	0	0	0	350
391	0	3	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	1	2	0	410
411	0	0	0	0	0	1	0	0	0	0	420
421	0	0	0	0	0	0	0	1	0	0	430
451	0	6	0	0	0	0	0	0	2	0	460
481	0	0	15	0	0	0	0	0	0	0	490
491	0	0	37	0	0	0	5	0	0	0	500
501	0	0	0	0	0	0	0	0	20	0	510
511	0	772	0	0	0	0	0	0	0	0	520
521	0	0	0	0	24	67	3	53	2	23	530
531	296	30	143	95	0	0	64	63	2809	304	540
541	144	337	26	16	0	5395	0				

ORIGIN ZONE 512 PURPOSE 1 22344 TOTAL ORIG/PROD

-CONTINUED-

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	1	0	10
11	0	3	0	0	0	0	0	0	2	0	20
41	2	0	0	0	9	0	0	0	0	1	50
51	0	0	0	0	0	1	0	0	0	0	60
61	0	0	0	0	0	1	0	0	0	0	70
111	3	0	0	0	0	0	0	0	0	0	120
171	0	0	0	0	0	2	0	0	0	0	180
181	0	0	33	0	0	0	0	0	0	0	190
211	2	0	0	0	0	16	0	0	1	0	220
221	0	0	0	0	0	6	0	0	0	0	230
231	0	0	1	0	0	0	7	0	2	3	240
261	0	3	0	0	0	0	2	0	0	0	270
271	0	3	0	2	0	0	0	0	0	0	280
281	0	0	0	0	0	2	52	0	0	0	290
291	0	0	0	0	0	0	0	0	2	0	300
301	0	0	0	0	0	0	0	0	0	0	310
321	0	0	123	0	0	0	0	0	0	0	330
331	0	0	54	0	0	0	0	0	0	1	340
351	0	0	0	0	0	0	0	2	0	0	360
361	0	0	0	49	0	0	0	0	0	0	370
371	0	0	0	0	4	0	0	0	0	0	380
381	0	0	0	0	0	0	0	0	0	0	390
391	0	0	0	0	0	0	0	0	0	0	400
411	0	0	0	0	0	0	0	0	0	0	420
421	0	0	0	1	0	0	0	0	0	0	430
451	0	0	0	0	0	0	0	15	0	0	460
481	0	0	30	14	0	0	17	0	0	0	490
491	0	0	175	60	60	6	26	0	0	0	500
501	26	0	0	0	1	0	0	0	0	0	510
511	2	0	0	0	0	0	0	0	0	0	520
521	20	6	173	13	391	195	85	73	0	5	530
531	6	43	81	213	1	3	15	84	2439	837	540
541	188	2412	429	293	1102	12149	0	0	0	0	

ORIGIN ZONE 513 PURPOSE 1 19066 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	179	0	10
11	0	1	45	0	0	0	0	0	2	0	20
21	0	0	0	0	1	0	0	0	2	0	30
41	1	0	0	0	52	0	0	3	0	0	50
51	0	0	0	0	49	0	0	0	0	0	60
61	0	0	0	0	2	59	0	1	0	0	70
101	2	0	21	0	0	0	0	0	0	0	110
121	0	0	0	16	0	0	0	2	0	0	130
161	1	0	0	0	0	0	7	0	0	0	170

-CONTINUED-

181	0	0	19	0	0	0	0	0	0	0	190
211	0	0	0	0	0	37	0	0	0	0	220
221	0	0	0	0	0	144	5	0	0	0	230
231	0	0	54	0	0	0	42	0	0	0	240
241	0	0	0	0	3	0	0	14	0	0	250
261	0	32	0	0	0	2	0	0	0	0	270
281	0	0	0	0	0	255	62	0	0	0	290
311	0	0	0	0	2	0	0	0	0	0	320
321	0	0	4	0	0	0	0	0	0	0	330
391	0	2	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	11	0	410
431	0	0	0	2	0	0	0	0	0	0	440
451	0	44	0	0	0	0	0	0	160	0	460
471	2	0	0	0	0	0	0	0	0	0	480
481	0	2	66	228	0	0	0	0	0	1	490
491	0	0	236	4	0	0	2	0	109	0	500
501	6	0	0	0	0	0	0	0	0	0	510
521	16	65	21	0	164	413	138	39	0	338	530
531	860	37	526	544	2	10	595	203	4001	2369	540
541	2848	2932	840	109	0	0	0	0	0	0	0

ORIGIN ZONE 514 PURPOSE 1 5 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	4	1				

ORIGIN ZONE 515 PURPOSE 1 271 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	0	0	0	0	1	0	0	0	0	530
531	0	1	0	6	0	0	2	1	0	11	540
541	7	4	4	0	0	123	111				

ORIGIN ZONE 516 PURPOSE 1 255 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
231	0	0	0	0	0	0	1	0	0	0	240
491	0	0	1	0	0	0	0	0	0	0	500
531	0	0	13	1	0	0	2	0	2	80	540
541	5	1	0	0	0	63	86				

ORIGIN ZONE 517 PURPOSE 1 111 TOTAL ORIG/PROD

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
PENN CENTRAL RR 100 PERCENT SAMPLE
CARLOADS OF FREIGHT SHIPPED

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
				-CONTINUED-							
41	0	0	0	0	0	0	0	1	0	0	50
231	0	0	0	0	0	0	1	0	0	0	240
481	0	0	1	0	0	0	0	0	0	0	490
491	0	0	1	0	0	0	1	0	0	0	500
511	0	0	1	0	0	0	0	0	0	0	520
531	0	0	0	3	0	0	1	0	15	5	540
541	4	3	0	0	0	42	32				

ORIGIN ZONE 518 PURPOSE 1 1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
541	0	0	0	0	0	0	1				

ORIGIN ZONE 519 PURPOSE 1 1917 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	0	0	0	2	0	0	50
121	0	0	0	1	0	0	0	0	0	0	130
181	0	0	8	0	0	0	0	0	0	0	190
221	0	0	0	0	0	3	6	0	0	0	230
231	0	0	0	0	0	0	66	0	0	0	240
261	0	6	0	0	0	0	0	0	0	0	270
281	0	0	0	0	0	4	0	0	0	0	290
321	0	0	1	0	0	0	0	0	0	0	330
471	0	0	0	0	0	0	0	0	4	0	480
491	0	0	334	169	0	0	0	0	0	0	500
511	0	0	2	0	0	0	0	0	0	0	520
521	0	0	0	0	0	1	57	0	3	5	530
531	137	10	56	49	0	16	1	76	101	201	540
541	13	66	2	0	0	208	309				

ORIGIN ZONE 520 PURPOSE 1 3299 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	0	2	0	0	0	0	0	0	0	20
41	0	0	0	0	0	0	0	0	0	2	50
51	0	0	0	0	1	0	0	0	0	0	60
261	0	0	0	3	0	0	0	0	0	0	270
281	0	0	0	0	0	0	160	0	0	0	290
411	0	0	0	0	0	0	0	0	0	1	420
491	0	0	1	0	0	0	0	0	0	0	500
521	0	0	0	0	2	36	2	1	8	2	530
531	1	7	14	48	0	1	9	5	6	98	540
541	1	13	0	0	0	2007	868				

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

ORIGIN ZONE	PURPOSE 1		10432 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	3	0	0	0	0	0	0	7	0	20
41	0	0	0	8	93	0	1	1	0	0	50
61	0	0	0	0	0	0	0	7	0	0	70
71	0	0	0	0	0	0	0	1	0	0	80
121	0	1	0	0	0	0	0	1	0	0	130
161	8	0	0	0	0	0	0	0	0	0	170
181	0	0	28	0	0	0	0	0	0	0	190
221	0	0	0	0	0	17	2	0	0	0	230
231	0	0	2	0	0	3	43	1	0	0	240
261	0	0	0	0	0	360	0	0	0	0	270
281	0	0	0	0	0	15	0	0	0	0	290
321	0	0	6	0	0	0	0	0	0	0	330
341	0	1	0	0	0	0	0	0	0	0	350
451	0	9	0	0	0	0	3	0	8	0	460
461	0	0	0	0	3	0	0	0	0	0	470
481	0	0	0	1	0	0	0	0	0	0	490
491	0	0	312	10	10	0	11	0	0	0	500
501	0	0	0	0	0	0	0	0	1	0	510
511	0	2	27	0	0	0	0	0	0	0	520
521	0	0	0	0	1	214	99	13	0	43	530
531	72	16	884	547	0	111	33	299	451	626	540
541	238	76	12	0	0	2813	2878				

ORIGIN ZONE	PURPOSE 1		23606 TOTAL ORIG/PROD								TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	27	0	10
11	0	48	1	0	0	0	0	0	0	0	20
21	0	0	0	0	0	0	0	0	10	0	30
31	1	0	0	0	0	0	0	0	0	0	40
41	0	0	0	0	76	0	0	6	0	0	50
51	0	0	0	0	3	0	0	0	0	0	60
61	0	0	0	0	0	0	4	1	0	0	70
71	0	0	0	0	0	0	0	6	39	0	80
121	0	4	0	48	0	0	0	0	0	0	130
161	1	0	0	0	0	0	0	0	0	0	170
181	0	0	200	0	0	3	0	0	0	0	190
201	0	0	0	1	0	0	0	0	0	0	210
211	0	0	0	0	0	45	0	0	0	0	220
221	0	0	0	0	0	240	0	0	0	0	230
231	0	0	10	4	0	3	519	0	0	0	240
241	1	0	0	0	0	0	0	1	0	0	250
261	0	18	0	0	0	107	0	0	0	0	270
281	0	0	0	0	0	25	5	0	0	0	290

-CONTINUED-

451	0	3	1	0	0	0	0	0	7	38	460
461	0	0	0	0	0	0	0	0	3	0	470
471	0	0	0	0	3	0	0	0	21	0	480
481	0	1	54	20	0	0	0	0	0	0	490
491	0	0	282	0	3	0	1	0	0	0	500
501	16	0	0	0	2	0	0	1	9	0	510
511	0	51	19	0	0	0	0	0	0	0	520
521	0	0	0	0	25	649	40	285	3	18	530
531	245	151	318	267	0	1	267	55	913	1403	540
541	157	234	41	0	0	11776	8986				

ORIGIN ZONE 524 PURPOSE 1 2496 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	0	0	0	1	0	0	0	40
61	0	0	0	0	0	0	1	0	0	0	70
181	0	0	35	0	0	0	0	0	0	0	190
211	0	0	0	0	0	2	0	0	0	0	220
221	0	0	0	0	0	8	0	0	0	0	230
231	0	0	0	0	0	0	19	1	0	0	240
401	0	0	0	0	0	0	0	0	1	0	410
461	0	0	0	0	0	0	0	0	2	0	470
491	0	0	8	0	2	0	0	0	0	0	500
511	0	163	0	0	0	0	0	0	0	0	520
521	0	0	0	0	0	4	6	24	0	0	530
531	0	1	236	82	0	0	28	51	25	476	540
541	28	38	2	0	0	511	741				

ORIGIN ZONE 525 PURPOSE 1 137391 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	1	0	473	0	10
11	0	35	5	0	0	0	0	0	2	0	20
21	0	0	0	0	2	0	0	5	34	0	30
31	2	14	0	0	0	0	16	0	0	0	40
41	0	0	1	2	15	0	9	12	0	0	50
51	2	0	7	0	233	0	0	0	0	0	60
61	0	0	0	0	0	13	3	11	0	0	70
71	0	0	0	0	3	0	0	1	1	10	80
81	1	0	0	0	0	0	0	0	0	0	90
91	0	0	0	0	0	1	0	0	0	0	100
101	0	0	0	0	0	0	0	0	1	0	110
111	0	0	1	0	0	0	0	0	0	0	120
121	0	0	0	29	0	0	0	9	0	0	130
131	0	0	0	0	0	1	0	0	0	0	140

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

151	2	0	1	0	0	0	0	0	0	0	160
161	165	0	2	0	0	0	0	0	0	0	170
181	0	0	1106	0	0	1	0	0	0	0	190
201	1	2	0	2	0	0	0	0	0	0	210
211	0	0	0	0	0	43	0	0	0	0	220
221	0	0	0	0	0	854	140	0	0	16	230
231	0	0	19	9	0	19	332	25	0	9	240
241	0	0	0	0	0	0	0	15	0	0	250
251	0	27	0	0	0	9	0	0	0	0	260
261	0	7	0	12	0	2	0	0	0	0	270
281	0	0	0	0	3	449	133	0	0	2	290
291	9	0	0	0	0	0	0	0	0	0	300
301	0	0	0	0	0	0	0	0	0	2	310
311	0	0	0	0	11	0	0	0	0	0	320
321	0	0	794	0	0	0	0	0	0	0	330
331	0	0	4	0	0	0	0	0	0	0	340
341	0	17	0	0	0	0	0	0	0	0	350
361	0	0	3	1	0	0	0	0	0	0	370
371	0	0	0	0	0	0	0	0	0	65	380
381	0	0	0	0	0	0	1	0	0	0	390
391	0	63	0	0	1	5	0	0	4	0	400
401	0	0	0	0	0	0	0	1	41	0	410
411	1	0	0	0	0	0	0	0	0	0	420
421	0	0	0	1	0	0	0	0	0	0	430
431	0	0	83	1	1	0	0	0	1	0	440
441	2	12	0	0	0	0	0	0	0	0	450
451	0	25	0	7	0	2	14	0	37	2	460
461	0	2	0	0	2	0	0	0	0	0	470
471	0	1	0	0	1	0	0	0	55	0	480
481	0	1	34	98	0	7	12	0	0	15	490
491	0	0	2356	25	5822	0	176	1	109	6	500
501	612	13	0	0	33	0	0	3	8	0	510
511	2	389	161	0	0	0	0	0	0	0	520
521	0	3	16	0	0	1654	947	375	249	105	530
531	242	1063	3534	3489	2	555	516	524	5911	6253	540
541	1796	3690	1275	538	152	57162	31823				

ORIGIN ZONE	526	PURPOSE	1	88827	TOTAL	ORIG/PROD						
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
1	0	0	0	0	0	0	0	0	6	30	10	
11	0	117	11	0	0	0	0	0	4	0	20	
21	0	0	0	0	0	0	0	0	14	0	30	
31	0	0	0	0	0	0	4	0	0	0	40	
41	3	0	0	2	22	0	22	66	0	2	50	
51	1	0	0	0	965	1	0	0	0	0	60	

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

61	1	0	0	0	0	234	9	4	0	0	70
71	0	0	0	0	0	1	0	1	0	1	80
91	4	0	0	0	0	9	0	0	0	0	100
101	0	0	1	0	0	0	0	0	0	0	110
111	0	0	4	0	0	0	0	0	0	4	120
121	0	4	0	4	0	0	0	259	0	0	130
131	0	42	0	0	0	0	0	0	0	0	140
151	15	0	0	0	0	1	0	0	0	4	160
161	105	1	1	0	0	0	0	0	0	0	170
171	0	0	0	0	0	0	1	0	0	0	180
181	8	0	602	0	0	5	2	0	0	0	190
191	4	0	0	0	0	0	0	1	26	0	200
201	0	0	3	0	0	0	0	0	0	4	210
211	0	0	0	0	0	55	0	0	1	1	220
221	0	0	0	0	0	287	127	0	0	4	230
231	0	0	20	0	0	8	627	9	0	15	240
241	1	0	0	1	0	0	0	9	0	0	250
251	0	5	0	0	0	0	0	0	0	0	260
261	0	3	0	73	0	29	31	50	0	0	270
281	0	0	0	0	6	8	1	0	0	0	290
291	1	0	0	0	2	0	0	0	0	0	300
301	0	0	0	0	0	0	0	0	0	1	310
311	0	0	0	0	87	0	0	0	0	2	320
321	0	0	148	0	0	18	0	0	0	0	330
331	0	0	1227	0	0	0	0	0	1	0	340
341	0	19	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	0	0	1	360
361	0	0	0	3	0	0	0	18	0	0	370
371	0	0	0	0	0	0	0	0	0	14	380
381	0	0	0	0	0	0	0	0	0	1	390
391	0	12	0	1	3	30	0	0	0	0	400
401	0	0	14	1	0	0	0	0	42	0	410
411	0	0	0	7	0	11	0	1	0	6	420
431	0	0	1	0	1	0	0	0	0	0	440
451	0	59	1	0	0	15	1	0	16	25	460
461	0	1	0	0	6	0	0	0	98	0	470
471	5	8	0	0	2	0	0	0	7	0	480
481	0	3	295	917	0	0	2	0	0	100	490
491	0	0	1330	13	20	7	263	6	2	6	500
501	45	31	0	0	1	0	0	0	39	0	510
511	16	777	415	0	0	0	0	0	0	21	520
521	18	178	303	24	1508	0	983	683	522	61	530
531	202	849	7229	5479	94	59	709	1338	2791	5556	540
541	2128	3600	1942	908	557	26516	14357				

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
-CONTINUED-											
1	0	0	0	0	0	0	1	0	12	0	10
11	0	7	1	0	0	0	0	0	2	0	20
21	0	0	0	0	0	3	0	0	3	0	30
31	0	0	0	0	0	0	3	0	0	0	40
41	0	0	3	0	155	0	1	3	0	0	50
51	13	0	0	0	17	0	0	0	0	0	60
61	0	0	0	0	0	5	2	2	0	0	70
71	0	1	0	0	0	0	0	1	1	0	80
81	0	0	0	0	0	0	0	1	0	0	90
111	0	0	257	0	0	0	0	0	0	0	120
121	0	3	0	1	0	0	0	0	0	0	130
131	0	2	0	0	0	0	0	0	0	0	140
161	43	1	0	0	0	0	0	0	0	0	170
181	1	0	59	0	0	0	1	9	0	0	190
201	0	0	0	0	0	0	0	0	0	1	210
211	0	0	0	0	0	40	0	0	0	1	220
221	0	0	0	0	0	75	333	4	0	9	230
231	0	0	0	8	0	27	60	4	0	0	240
241	0	0	0	0	0	0	0	1	0	0	250
251	0	6	0	0	0	0	0	0	0	0	260
261	0	0	0	1	0	2	0	0	0	0	270
281	0	0	0	0	0	10	6	0	0	0	290
301	0	0	0	0	0	1	0	0	0	0	310
321	0	0	62	0	0	0	0	0	0	1	330
341	0	1	0	1	0	0	0	0	0	0	350
381	0	0	180	0	0	0	0	0	0	0	390
391	0	16	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	3	0	410
431	0	0	6	0	0	0	0	0	0	0	440
441	0	1	0	0	0	0	0	0	0	0	450
451	0	1	1	0	0	1	3	0	99	0	460
461	0	0	0	0	9	0	0	0	0	0	470
471	1	0	0	0	0	0	0	0	0	0	480
481	0	0	4	38	0	10	0	0	0	0	490
491	0	0	872	2	93	0	90	3	4	21	500
501	9	6	0	0	3	0	0	0	362	1	510
511	0	293	633	0	0	842	0	0	0	0	520
521	6335	1268	589	278	8006	1754	0	8313	33	783	530
531	118	119	842	2156	1	11	39	172	955	883	540
541	1062	463	965	6394	1854	10732	7650				

ORIGIN ZONE 528 PURPOSE 1 62041 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	0	15	0	0	0	0	0	1	0	20
21	0	0	0	0	0	0	0	0	11	0	30

-CONTINUED-

491	0	0	50	0	21	0	1	0	0	0	500
511	0	13	23	0	0	0	0	0	0	0	520
521	2	7	60	1	422	1229	15	31	0	0	530
531	0	1	86	1099	0	0	9	17	45	124	540
541	159	180	237	269	73	876	512				

ORIGIN ZONE 530 PURPOSE 1 5461 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	11	0	10
31	0	0	0	0	0	0	5	0	0	0	40
41	0	0	0	10	6	0	0	0	0	0	50
161	6	0	0	0	0	0	0	0	0	0	170
181	0	0	1	0	0	0	0	0	0	0	190
221	0	0	0	0	0	8	1	0	0	0	230
231	0	0	0	0	0	0	98	0	0	0	240
281	0	0	0	0	0	270	55	0	0	0	290
491	0	0	72	1	0	0	0	0	3	0	500
511	1	0	12	0	0	0	0	0	0	1	520
521	0	0	7	8	325	133	5	148	1	0	530
531	13	9	90	68	9	0	24	2	534	442	540
541	87	504	604	351	138	1018	380				

ORIGIN ZONE 531 PURPOSE 1 7542 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	0	0	0	1	0	0	50
61	0	0	0	0	0	0	0	0	1	0	70
121	0	0	0	0	0	0	0	37	0	2	130
161	2	0	0	0	0	0	0	0	0	0	170
181	0	0	63	0	1	0	0	0	0	0	190
221	0	0	0	0	0	37	0	0	0	0	230
231	0	0	1	0	0	0	0	0	0	0	240
251	0	0	0	0	0	0	0	2	0	0	260
281	0	0	0	0	0	1	0	0	0	0	290
291	0	0	1	0	0	0	0	0	0	0	300
321	0	0	2	0	0	0	0	0	0	0	330
331	0	0	1	0	0	1	1	0	0	0	340
351	0	0	0	0	0	0	0	15	0	0	360
421	0	0	0	0	0	0	0	0	0	21	430
491	0	8	84	0	37	0	0	36	0	0	500
501	4	1	0	0	0	0	0	0	0	0	510
511	4	5	40	0	0	0	0	0	4	1	520
521	5	30	68	0	321	49	101	66	0	2	530
531	0	9	111	184	2	6	30	42	156	122	540

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

ORIGIN ZONE	541	190	877	948	300	135	2244	1130				
PURPOSE	1	1	1	1	1	1	1	1	1	1	1	1
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
11	0	0	0	0	0	0	0	0	1	0	20	
21	0	0	0	0	0	0	0	0	42	0	30	
31	0	0	0	0	0	0	5	0	0	0	40	
41	0	0	0	0	0	0	0	7	0	0	50	
51	0	0	0	0	4	0	0	0	0	0	60	
91	0	5	0	0	2	0	0	0	0	0	100	
121	0	0	0	0	0	0	0	0	35	0	130	
151	0	0	0	0	0	0	0	0	0	0	160	
161	42	0	0	0	0	0	0	0	0	0	170	
171	0	0	0	0	0	8	0	0	0	0	180	
181	0	0	4	0	0	0	0	0	0	1	190	
191	0	39	14	11	0	0	0	1	29	0	200	
201	0	0	0	0	0	0	0	0	0	0	210	
211	0	0	0	0	0	6	0	0	0	0	220	
221	0	0	0	0	0	3	0	0	0	5	230	
231	0	0	0	0	0	4	142	0	26	0	240	
241	0	0	0	0	0	0	0	3	0	0	250	
261	0	26	0	0	0	0	0	0	0	0	270	
281	0	0	0	0	4	5	0	0	0	9	290	
321	0	0	1	0	0	0	0	0	0	0	330	
331	0	0	0	0	0	4	0	0	0	0	340	
341	0	8	0	0	0	0	0	0	0	1	350	
351	0	0	0	5	0	0	1	0	0	4	360	
381	0	0	0	0	0	0	11	13	0	0	390	
391	0	0	0	0	0	1	0	1	0	0	400	
401	0	0	0	0	0	0	0	0	1	0	410	
411	0	0	0	0	0	0	1	0	0	0	420	
421	0	0	0	44	0	0	0	0	0	0	430	
451	8	0	0	0	0	0	0	6	27	0	460	
461	0	0	0	0	0	0	0	13	33	0	470	
481	0	0	0	1	0	0	0	0	0	1	490	
491	0	0	81	0	5	0	1	8	0	0	500	
501	36	3	0	0	0	0	0	0	0	0	510	
511	0	226	24	0	0	0	0	0	0	0	520	
521	7	7	73	0	489	24	39	141	3	2	530	
531	100	0	262	230	345	6	123	567	703	925	540	
541	562	754	512	695	199	3583	1555					

ORIGIN ZONE 533 PURPOSE 1 87884 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
					-CONTINUED-						
1	0	0	0	0	0	0	0	0	9	1	10
11	0	20	0	0	0	0	0	0	0	0	20
21	0	0	0	0	3	0	0	0	12	0	30
31	0	0	0	0	0	0	0	2	0	0	40
41	0	0	0	0	0	0	2	7	0	2	50
51	0	0	0	0	49	1	0	0	0	0	60
91	0	0	0	0	1	0	0	0	0	0	100
111	0	2	0	0	0	0	0	0	0	0	120
121	0	3	0	0	0	0	0	2394	0	0	130
131	0	19	0	0	0	0	0	0	0	0	140
161	56	2	0	0	0	0	0	0	0	0	170
171	0	0	0	0	0	0	0	1	0	0	180
181	0	0	1936	0	0	1	0	0	0	0	190
191	0	0	0	0	0	0	0	0	47	0	200
221	0	0	0	0	0	430	11	0	0	0	230
231	0	0	33	1	0	96	108	12	0	0	240
241	1	0	0	0	0	0	0	1	0	0	250
251	0	2	0	0	0	0	0	3	0	0	260
261	0	0	0	7	0	0	0	0	0	0	270
271	0	1	0	0	0	0	0	0	0	0	280
281	0	0	0	0	4	0	2	0	0	0	290
291	0	0	0	0	0	0	0	0	1	0	300
301	0	1	0	0	0	0	0	0	0	0	310
311	2	0	0	0	0	0	0	0	0	0	320
321	0	0	44	0	0	0	0	0	0	0	330
331	0	0	0	0	125	0	0	0	0	0	340
341	0	38	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	2158	0	0	360
361	0	0	1	2	0	0	0	0	0	83	370
391	0	0	0	0	6	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	4	0	410
411	92	0	0	0	0	1	0	0	0	0	420
421	0	0	1	2	11	0	0	5	2	15	430
431	0	0	8	0	0	0	0	0	0	0	440
441	0	1	0	0	0	0	0	0	0	0	450
451	2	0	4	0	0	1	42	0	16	2	460
461	0	0	0	0	4	2	0	0	20	0	470
471	6	1	0	0	0	0	0	0	5	0	480
481	0	1	1	333	0	2	0	0	0	1	490
491	0	0	931	162	748	0	52	0	15	0	500
501	40	52	0	0	4	0	0	0	3	0	510
511	2	93	2354	0	0	1	0	0	0	2	520
521	41	177	945	6	3903	1201	293	838	11	19	530
531	150	293	0	1784	292	10	238	183	2551	2266	540
541	1867	7873	8836	4868	815	27645	7991				

ORIGIN ZONE	PURPOSE 1										155941 TOTAL ORIG/PROD	TO ZONE
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
1	0	0	0	0	0	0	0	0	0	15	10	
11	0	2	4	0	0	0	0	1	1	0	20	
21	0	6	0	0	0	0	0	0	47	0	30	
31	0	0	2	0	0	0	1	0	0	4	40	
41	3	0	0	6	0	0	3	57	0	0	50	
51	0	0	0	0	50	0	0	0	0	0	60	
61	0	0	0	0	0	3	0	0	0	0	70	
71	0	0	0	0	0	0	0	1	1	3	80	
101	0	0	15	0	0	7	0	0	1	0	110	
111	0	4	2	0	0	0	0	0	0	0	120	
121	0	0	31	0	0	0	0	8499	1	0	130	
131	0	7	0	6	0	0	0	0	0	0	140	
151	5	0	0	0	0	0	0	0	0	0	160	
161	25	0	0	0	0	0	0	0	0	0	170	
181	0	7	236	0	0	0	0	0	0	0	190	
191	0	0	0	0	0	0	0	0	0	12	200	
211	0	0	0	0	0	11	0	0	0	0	220	
221	0	0	0	0	0	130	41	0	0	0	230	
231	0	0	3	0	0	38	145	1	12	3	240	
241	0	0	0	0	5	0	0	32	0	0	250	
251	0	3	0	0	0	0	0	10	0	0	260	
261	0	0	0	21	0	0	0	0	0	0	270	
271	33	0	0	0	0	0	0	0	0	0	280	
281	0	0	0	0	13	68	2	0	0	31	290	
291	19	0	0	0	0	0	0	0	0	0	300	
301	0	9	89	0	0	2	0	0	0	0	310	
311	0	0	0	0	34	0	0	0	0	0	320	
321	0	0	23	0	0	0	0	0	0	0	330	
331	0	0	1	0	8	0	0	0	0	0	340	
341	0	33	0	0	0	0	0	0	0	0	350	
351	0	3	0	0	0	0	0	110	0	0	360	
361	0	0	0	301	0	0	0	0	0	0	370	
371	0	0	0	0	0	0	36	0	0	0	380	
391	0	0	0	0	3	1	0	0	0	0	400	
401	0	0	0	0	0	0	0	4	276	0	410	
411	0	0	0	0	21	0	0	0	0	5	420	
421	0	0	62	0	0	0	0	0	0	0	430	
431	0	0	3	0	0	0	0	0	0	0	440	
441	0	11	0	0	0	0	0	0	0	0	450	
451	0	0	0	0	0	0	0	0	7	0	460	
461	0	0	0	0	20	0	0	0	10	0	470	
471	1	0	0	0	0	0	0	0	18	0	480	
481	0	0	94	1471	0	2	1	0	0	0	490	
491	0	1	1899	199	183	3	301	26	535	5	500	
501	231	102	0	0	2	0	0	0	132	38	510	

-CONTINUED-

511	8	619	425	0	6	39	0	0	17	31	520
521	810	3031	2725	78	18368	3416	871	2587	2073	2057	530
531	416	1206	13370	0	184	8	746	746	3668	5912	540
541	4198	13495	14326	8834	2282	22319	11011				

ORIGIN ZONE	PURPOSE 1										3475 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
71	0	0	0	0	0	0	0	1	0	0	80
101	0	0	0	0	0	0	0	0	1	0	110
161	1	0	0	0	0	0	0	0	0	0	170
281	0	0	0	0	1	0	0	0	0	0	290
351	0	0	0	0	0	0	0	2	0	0	360
481	0	0	0	1	0	0	0	0	0	0	490
491	0	0	89	0	0	0	7	0	22	0	500
501	0	17	0	0	0	0	0	0	0	0	510
511	0	0	3	0	0	0	0	0	0	0	520
521	1	37	1	0	434	12	17	21	0	1	530
531	275	37	3	173	0	0	30	24	303	31	540
541	72	53	201	116	35	923	530				

ORIGIN ZONE	PURPOSE 1										4078 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
21	0	0	0	0	0	0	0	0	1	0	30
181	0	0	1	0	0	0	0	0	0	0	190
211	0	0	0	0	0	11	0	0	0	0	220
231	0	0	0	0	0	0	203	0	0	0	240
361	0	0	0	1	0	0	0	0	0	0	370
461	0	0	0	0	0	0	0	0	12	0	470
491	0	0	1	0	0	0	0	0	0	0	500
501	0	0	0	0	0	0	0	0	0	3	510
511	0	1	10	0	0	0	0	0	0	0	520
521	0	5	3	0	23	3	0	1	1	0	530
531	0	122	131	372	0	0	38	107	255	545	540
541	49	192	140	68	12	1083	684				

ORIGIN ZONE	PURPOSE 1										47403 TOTAL ORIG/PROD
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	3	0	10
11	0	0	0	0	0	0	0	0	1	0	20
21	0	0	0	0	0	0	0	0	1	0	30
41	0	1	0	2	0	0	0	0	0	0	50

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

51	122	0	0	0	111	0	0	0	0	0	60
61	0	0	0	0	0	2	1	0	0	0	70
111	0	0	2	0	0	0	0	0	0	0	120
121	0	0	0	0	0	0	0	47	0	0	130
151	0	0	0	0	0	1	0	0	0	0	160
161	335	0	0	0	0	0	0	0	0	0	170
171	0	0	0	0	0	0	0	0	2	0	180
181	0	0	548	0	0	0	0	0	0	0	190
191	0	0	0	0	0	0	0	0	3	0	200
211	0	0	0	0	0	31	0	0	0	0	220
221	0	0	0	0	0	12	0	0	0	0	230
231	0	0	0	0	0	0	109	0	0	1	240
251	0	1	0	0	0	0	0	0	2	0	260
261	0	7	0	5	0	2	0	0	0	0	270
281	0	0	0	2	33	0	1	0	0	0	290
291	0	0	0	0	2	0	0	0	0	0	300
311	0	0	0	0	3	0	0	0	0	0	320
321	0	0	148	0	0	0	0	0	0	0	330
331	0	0	0	0	0	0	0	0	0	2	340
341	0	1	0	0	0	2	0	0	0	0	350
351	0	0	0	0	0	0	0	33	0	0	360
361	0	0	0	62	0	0	0	0	0	0	370
371	0	0	0	0	0	2	0	0	0	0	380
401	0	0	0	0	0	0	0	0	2	0	410
411	1	0	0	0	0	0	0	0	0	3	420
421	0	0	1	0	0	0	0	0	0	0	430
441	1	0	0	0	0	0	0	0	0	0	450
461	0	0	0	0	2	0	0	0	3	0	470
471	0	0	0	1	0	0	0	0	0	0	480
481	0	0	0	204	0	0	0	0	0	1	490
491	0	22	1636	6	3	0	3	0	209	0	500
501	228	1	0	0	0	0	0	0	114	0	510
511	2	42	239	0	0	0	0	0	0	2	520
521	1	26	517	1	916	70	118	16	6	30	530
531	58	100	87	291	857	15	0	388	2187	15838	540
541	964	4418	1299	1264	309	8671	4581				

ORIGIN ZONE 538 PURPOSE 1 94378 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	10	1	0	0	0	0	0	1	0	20
21	0	0	0	0	3	0	0	0	12	0	30
31	29	0	0	0	0	0	9	0	0	0	40
41	0	0	0	0	6	0	4	4	0	1	50
51	11	0	0	0	23	0	0	0	0	0	60
61	0	0	0	0	0	3	5	0	0	0	70

-CONTINUED-

71	0	2	0	0	0	0	0	0	0	4	80
111	0	1	6	0	0	0	0	0	0	2	120
121	0	1	0	0	0	0	0	3	0	0	130
131	0	0	0	1	0	0	0	0	0	0	140
151	5	0	0	0	0	626	0	0	1	0	160
161	128	0	0	0	0	0	0	0	0	0	170
171	0	0	0	0	0	5	0	0	0	0	180
181	1	0	84	0	0	0	0	0	0	0	190
191	0	0	0	0	0	0	0	0	3	0	200
201	0	0	0	0	0	0	0	0	0	2	210
211	1	0	0	0	0	11	0	9	0	2	220
221	0	0	0	0	0	23	19	0	6	5	230
231	0	0	3	0	0	1	29	0	0	6	240
241	0	0	0	0	290	0	0	0	0	0	250
251	0	22	0	0	0	0	0	0	0	0	260
261	0	4	0	40	0	0	17	0	0	0	270
281	0	0	0	0	2	3	0	0	11	1	290
291	1386	0	0	0	2	0	0	0	0	0	300
301	0	144	0	0	0	0	0	0	2	1	310
311	1	0	0	0	26	0	0	0	0	0	320
321	0	0	8	0	0	0	0	0	0	0	330
331	0	0	134	0	3	0	2	0	0	0	340
351	0	0	0	0	0	0	2	0	0	0	360
371	0	0	0	0	0	0	1	0	0	0	380
381	0	0	0	0	0	0	1	1	0	0	390
391	0	17	0	0	18	3	0	0	0	0	400
401	0	0	3	0	0	0	0	0	14	0	410
411	0	0	0	0	0	1	0	3	2	1	420
431	0	0	2	0	0	0	0	0	2	0	440
441	0	29	0	0	0	0	0	5	0	0	450
451	0	4	1	0	0	2	0	13	0	6	460
461	0	0	0	0	29	3	0	0	0	0	470
471	0	1	0	0	1	0	0	0	0	0	480
481	0	0	10	0	0	0	0	0	0	0	490
491	0	0	475	191	8	0	34	0	0	0	500
501	61	8	0	0	0	0	0	0	1	0	510
511	1	73	327	0	0	2	0	0	77	0	520
521	22	159	145	16	2116	358	70	81	66	28	530
531	35	127	552	898	100	33	714	0	15677	3602	540
541	18449	5409	4170	1306	934	26345	8322				

ORIGIN ZONE 539 PURPOSE 1 391626 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	5	0	0	0	0	0	728	0	10
11	0	0	16	0	0	10	0	0	1	0	20

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-												
21	0	0	0	0	14	0	0	0	0	215	0	30
31	12	14	0	0	0	0	2	3	0	0	184	40
41	0	0	0	1	18	0	0	297	0	0	1	50
51	2	0	0	0	19	0	0	0	0	0	0	60
61	0	0	0	0	0	3	0	0	0	0	0	70
71	0	0	0	0	3	0	0	0	0	12	1	80
91	0	1	0	0	0	0	0	0	0	0	0	100
101	1	0	5	0	0	0	0	0	0	31	0	110
121	0	17	0	1	0	0	0	1826	0	0	0	130
131	0	44	0	1	0	68	0	1	0	0	0	140
141	0	0	0	0	0	3	0	0	0	0	0	150
151	8	0	0	0	0	1	0	1	5	0	0	160
171	0	0	0	0	0	0	1	0	1	0	0	180
181	30	0	2041	0	0	0	0	0	0	0	0	190
201	0	144	0	0	0	0	0	0	0	0	1	210
211	0	0	0	0	0	740	0	0	0	0	1	220
221	0	0	0	0	0	106	112	0	0	0	0	230
231	0	0	11	61	0	5	631	0	0	0	0	240
241	1	0	0	0	2	0	0	19	0	0	0	250
261	0	6	0	24	0	0	9	4	0	0	0	270
271	2	0	0	0	1	0	0	0	0	0	1	280
281	0	0	0	58	0	3633	67	0	1	0	1	290
291	16	0	0	0	6	0	0	6	12	0	0	300
301	0	6	0	0	0	5	0	0	0	0	0	310
311	0	0	0	0	8088	0	0	0	0	0	0	320
321	0	0	1828	0	0	0	0	0	0	0	0	330
331	0	0	0	1	0	0	0	0	0	0	0	340
341	0	40	0	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	1049	0	1	0	360
361	6	0	0	406	0	0	0	4	0	9	0	370
371	0	0	0	0	1	0	0	0	0	0	0	380
381	0	0	0	0	0	1	0	0	0	0	0	390
391	0	113	0	0	15	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	0	744	0	0	410
411	37	0	0	0	0	0	0	0	0	0	0	420
421	0	0	0	0	0	0	0	0	0	1	0	430
431	0	0	5	0	0	0	0	0	0	0	0	440
441	0	6	0	0	0	0	0	0	0	0	0	450
451	0	2	0	4	1	0	2	0	26	0	0	460
461	0	0	0	0	0	0	4	0	3	0	0	470
471	0	0	0	0	0	11	0	0	12	0	0	480
481	0	0	18	2943	0	0	19	0	0	16	0	490
491	0	1	14387	1443	6830	98	111	69	15574	9	0	500
501	1294	83	0	0	9	0	0	0	2577	149	0	510
511	66	5063	6248	0	0	0	0	0	15	7	0	520
521	45	302	2227	34	8414	7865	1596	4583	26	218	0	530
531	65	220	1318	1456	6	364	4588	2367	0	7882	0	540

-CONTINUED-

ORIGIN ZONE	541	72914	18158	16843	10494	4834	125418	18599			TO ZONE
PURPOSE	1	198455 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	1	0	15	0	10
11	0	7	14	0	0	0	0	13	0	0	20
21	0	1	0	0	4	0	0	0	0	0	30
31	0	22	0	0	0	0	17	0	12543	0	40
41	0	0	0	3	1	0	3	5	0	1	50
51	15	0	1	0	82	8	0	0	0	0	60
61	0	0	0	0	0	11	13	0	0	0	70
71	0	0	0	0	0	0	0	0	0	2	80
81	0	0	1	0	0	0	8	0	0	0	90
101	0	0	11	0	0	1	0	0	0	0	110
111	0	0	0	0	0	0	0	0	0	1	120
121	0	4	1	15	0	0	0	634	0	0	130
131	1	163	0	2	0	8	0	0	0	0	140
151	15	21	0	0	0	6	0	1	5	0	160
161	205	0	0	0	12	0	0	0	0	0	170
171	0	0	0	0	0	13	0	2	0	0	180
181	6	4	1341	0	0	1	0	0	0	0	190
191	0	0	0	0	0	0	0	1	5	13	200
201	0	0	0	6	0	0	0	0	0	1	210
211	0	0	1	0	0	39	0	4	0	2	220
221	0	0	0	0	0	560	206	0	0	2	230
231	0	0	11	4	0	69	392	0	0	5	240
241	0	0	0	11	1	0	0	5	0	0	250
251	0	0	0	0	0	0	0	1	26	0	260
261	0	18	0	37	0	0	0	0	2	0	270
271	2	0	0	0	0	0	0	0	0	2	280
281	0	0	0	47	5	418	13	11	3	1	290
291	6	0	0	0	2	0	0	0	7	0	300
301	0	1	0	0	0	0	0	0	0	0	310
311	0	0	0	0	29	0	0	0	0	0	320
321	0	0	122	0	0	275	0	0	0	0	330
331	0	0	0	1	0	2	0	0	0	0	340
341	0	25	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	1	229	0	3	360
361	11	0	0	20	0	0	0	0	0	0	370
381	0	0	0	0	0	1	0	3	0	0	390
391	0	7	0	0	10	0	0	1	0	0	400
401	0	0	152	0	0	0	0	0	48	0	410
411	2	0	0	0	0	4	0	3	0	3	420
421	0	0	0	1	1	0	0	0	0	0	430
431	0	0	30	0	0	0	0	0	1	0	440

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

441	0	103	0	0	0	0	0	0	0	6	450
451	0	20	0	5	0	1	4	0	3	4	460
461	0	0	0	0	8	8	0	0	1	2	470
471	0	2	0	0	0	41	0	10	12	0	480
481	0	0	7	1586	0	3	156	0	0	0	490
491	0	2	2802	187	272	41	132	5	125	38	500
501	130	94	0	0	7	0	0	0	227	1	510
511	52	807	1340	0	8	6	0	0	6	2	520
521	112	436	1150	61	4866	1622	779	507	18	236	530
531	429	308	2149	6562	86	290	1443	1316	11637	0	540
541	8755	16705	15559	13421	3535	53351	26666				

ORIGIN ZONE	541	PURPOSE	1	165627	TOTAL	ORIG/PROD										
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE					
1	0	0	0	0	0	0	4	0	244	0	10					
11	0	17	2	0	0	0	0	0	0	0	20					
21	0	0	0	0	5	0	0	0	17	0	30					
31	3	3	0	1	0	0	6	0	0	0	40					
41	3	0	0	14	1	0	0	10	0	0	50					
51	0	0	0	0	268	11	0	0	0	0	60					
61	2	0	0	0	0	27	0	0	0	0	70					
71	10	0	0	0	1	0	0	0	82	0	80					
81	0	0	1	0	0	0	1	0	0	0	90					
101	1	0	0	0	0	0	0	0	1	0	110					
121	0	1	0	1	0	0	0	64	0	0	130					
131	0	0	0	2	0	0	0	0	0	0	140					
151	0	0	0	0	0	10	0	0	1	0	160					
161	2	1	0	0	19	0	1	0	1	0	170					
181	0	1	264	0	0	0	0	0	0	0	190					
211	0	0	0	0	0	184	0	0	0	11	220					
221	0	0	1	0	0	410	34	5	0	4	230					
231	0	0	5	0	0	13	829	0	0	0	240					
241	2	0	0	58	5	0	0	22	0	0	250					
251	0	0	0	0	1	0	0	0	0	0	260					
261	0	25	0	35	0	29	0	1	2	0	270					
271	5	1	0	0	0	0	1	0	0	0	280					
281	0	0	0	14	6	612	42	1	0	1	290					
291	5	0	0	0	6	0	0	0	2	0	300					
301	0	11	0	0	0	0	0	0	0	0	310					
311	0	0	0	0	142	0	0	0	0	2	320					
321	0	0	18943	1	0	0	0	0	0	0	330					
331	0	2	18	3	0	0	1	0	0	0	340					
341	0	10	0	15	0	0	0	0	0	0	350					
351	0	0	0	0	0	0	0	29	0	1	360					
361	1	0	0	1	1	0	0	1	0	0	370					

-CONTINUED-

371	0	0	0	4	0	0	0	0	0	0	0	380
391	0	7	0	0	0	2	0	0	0	0	0	400
401	0	0	0	0	0	1	0	0	36	0	0	410
411	0	0	0	0	0	0	0	0	0	1	0	420
431	0	0	5	0	0	0	0	0	0	0	0	440
441	0	19	0	0	0	0	0	0	0	0	0	450
451	0	34	2	20	0	0	55	0	119	3	0	460
461	0	0	0	0	30	4	0	0	1	0	0	470
471	7	0	0	0	0	2	0	1	2	0	0	480
481	0	9	23	97	0	0	2	0	0	4	0	490
491	0	0	3907	34	386	75	842	17	358	31	0	500
501	28	9	0	0	76	0	0	9	10	12	0	510
511	138	506	2805	0	0	0	0	0	15	0	0	520
521	10	221	511	6	4254	591	6301	11142	71	118	0	530
531	586	414	906	5928	22	38	34165	3345	41052	23541	0	540

ORIGIN ZONE 542 PURPOSE 1 224787 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	8	0	3	0	0	0	6	0	1178	1	10
11	0	167	12	0	2	4	2	0	22	0	20
21	0	44	0	0	23	10	0	2	562	0	30
31	9	8	6	1	0	0	36	0	0	3	40
41	24	0	0	17	236	0	32	697	18	4	50
51	7	0	4	0	246	18	0	0	0	0	60
61	1	0	0	0	1	316	106	18	6	0	70
71	1	6	0	0	0	0	0	13	21	42	80
81	2	0	1	0	0	0	0	0	7	0	90
91	2	0	0	0	0	0	0	0	1	0	100
101	3	0	17	0	0	156	0	0	8	0	110
111	0	0	17	0	0	1	0	0	0	3	120
121	0	455	0	36	0	0	1	790	0	1	130
131	0	10	0	7	0	13	0	5	0	1	140
151	7	0	8	0	0	12	0	0	3	0	160
161	7	0	13	0	42	0	8	0	4	0	170
181	0	0	2237	0	1	0	0	0	0	0	190
191	0	54	0	0	0	0	0	1	0	0	200
201	0	0	6	0	0	0	0	0	0	1	210
211	0	0	5	0	0	1316	0	4	0	21	220
221	0	0	0	0	0	3421	915	2	0	18	230
231	0	0	337	19	0	154	591	33	0	13	240
241	21	0	0	0	16	0	0	40	0	0	250
251	2	145	1	0	0	0	0	3	0	0	260
261	0	83	0	192	0	124	27	2	15	0	270
271	1	0	0	0	0	0	0	0	0	0	280
281	0	0	0	21	29	1382	380	2	1	18	290

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

291	0	0	0	0	2	0	0	0	3	0	300
301	0	0	0	0	0	19	0	0	0	2	310
311	3	0	0	0	56	0	0	0	0	3	320
321	0	0	3394	0	0	2484	0	0	0	1	330
331	0	0	5	5	2	7	1	0	0	1	340
341	0	66	0	0	0	0	0	0	0	2	350
351	4	0	0	0	0	0	0	448	0	0	360
361	0	0	0	204	1	0	0	3	1	0	370
371	0	0	0	8	6	0	0	0	0	2	380
381	0	0	0	0	0	1	4	0	0	0	390
391	0	4	0	2	2	0	0	6	0	0	400
401	0	0	0	2	2	1	0	3	441	0	410
411	1	0	0	4	0	2	0	0	0	33	420
421	0	0	222	0	0	0	1	1	0	0	430
431	0	0	43	0	0	0	4	0	0	0	440
441	0	10	0	0	0	0	0	0	0	0	450
451	0	61	11	95	0	16	76	0	586	54	460
461	0	0	0	0	254	4	0	0	1	0	470
471	2	14	0	1	3	0	0	0	135	0	480
481	0	7	256	913	0	6	26	0	0	21	490
491	0	0	10392	1699	1906	80	510	19	700	7	500
501	663	108	0	0	44	0	2	1	262	1	510
511	143	5559	3945	0	0	2	1	0	136	1	520
521	187	329	124	56	13199	1774	1711	31193	288	1723	530
531	1413	1713	7298	11178	103	455	11580	7920	27359	51701	540

ORIGIN ZONE 543 PURPOSE 1 137303 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	0	0	0	0	0	0	52	0	10
11	0	30	33	3	0	14	2	0	13	1	20
21	0	1	0	0	31	0	0	0	116	0	30
31	10	2	0	1	0	0	4	0	0	0	40
41	19	25	2	33	50	0	18	66	0	16	50
51	1	0	17	0	170	11	0	0	0	0	60
61	0	0	0	0	0	76	75	223	0	0	70
71	0	0	0	0	1	2	0	16	17	0	80
81	5	0	0	0	0	0	0	0	0	0	90
91	0	1	0	0	0	0	0	0	0	0	100
101	34	0	1	0	0	0	0	0	0	0	110
111	0	0	7	0	1	0	0	0	0	0	120
121	0	16	0	0	0	0	2	6	0	0	130
151	15	0	1	0	0	5	0	0	1	1	160
161	288	6	3	0	7	0	0	0	0	1	170
181	0	0	586	0	1	3	1	0	0	0	190
191	0	0	0	0	0	0	0	0	1	0	200

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

201	0	5	11	3	0	0	0	0	0	2	210
211	0	0	0	0	0	1567	0	5	0	15	220
221	0	0	0	0	0	1257	634	0	0	8	230
231	0	0	97	121	0	143	860	17	0	5	240
241	46	0	0	0	0	0	0	32	0	0	250
251	0	7	0	0	0	0	0	1	0	0	260
261	0	43	0	53	0	46	4	2	27	0	270
271	6	0	0	0	0	0	0	0	0	0	280
281	0	0	0	1	7	626	106	0	0	3	290
291	0	0	0	0	4	0	0	0	0	0	300
301	0	0	0	0	0	20	0	0	0	0	310
311	0	0	0	0	55	0	0	0	0	1	320
321	0	0	275	0	3	5	0	0	0	5	330
331	0	0	59	0	0	0	0	1	0	0	340
341	0	81	0	0	0	0	0	0	0	1	350
351	2	0	0	0	0	0	0	6	0	1	360
361	3	0	0	21	0	0	0	1	4	0	370
371	0	0	0	0	29	0	0	0	0	42	380
381	0	0	0	0	0	0	44	1	0	0	390
391	0	53	0	6	6	1	0	0	1	0	400
401	0	0	0	14	4	1	0	7	138	0	410
411	1	0	0	1	0	0	2	1	0	23	420
421	0	0	0	2	0	0	0	0	0	0	430
431	0	0	25	0	4	1	0	0	0	0	440
441	0	9	0	0	0	0	0	0	0	0	450
451	0	45	0	1	0	8	21	0	1097	10	460
461	0	0	0	0	62	1	1	1	46	1	470
471	1	15	0	0	1	4	0	0	20	0	480
481	0	16	141	280	0	7	41	0	0	14	490
491	0	0	4944	309	493	16	533	37	179	10	500
501	85	21	0	0	29	1	0	6	89	2	510
511	1	991	540	0	1	0	0	0	0	0	520
521	8	11	37	7	1364	2849	1119	1209	416	526	530
531	1996	1147	3512	11674	78	359	1751	2902	11461	18701	540
541	0	0	0	0	0	0	57187				

ORIGIN ZONE S44 PURPOSE 1 144480 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	3	0	0	0	0	0	1	1	119	0	10
11	0	110	26	7	0	2	1	1	17	1	20
21	3	0	0	0	22	2	0	26	68	0	30
31	40	0	6	5	2	1	20	0	0	1	40
41	45	4	0	119	93	0	6	199	0	1	50
51	4	0	5	0	1012	0	0	0	0	0	60
61	0	0	0	0	2	163	83	693	5	0	70

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

71	0	0	0	0	1	16	0	23	23	0	80
81	14	0	0	0	0	0	0	0	1	0	90
91	1	1	0	0	0	0	0	0	0	0	100
101	61	0	0	0	0	0	0	0	0	0	110
111	0	0	17	0	0	0	0	0	0	0	120
121	0	1	0	35	0	3	2	9	2	1	130
131	0	0	1	1	0	0	0	0	3	0	140
151	30	1	1	0	3	2	0	0	0	0	160
161	124	9	0	0	3	0	91	0	0	3	170
171	0	0	0	0	0	1	3	2	0	16	180
181	1	0	899	0	5	4	1	0	0	0	190
191	0	0	0	2	0	0	0	0	0	1	200
201	0	7	6	8	0	0	0	0	0	2	210
211	0	0	0	0	1	100	0	14	1	15	220
221	0	0	0	0	0	509	168	0	2	5	230
231	0	0	40	61	0	97	1356	25	0	4	240
241	82	0	0	0	9	0	0	73	0	0	250
251	2	35	0	0	0	0	0	0	1	0	260
261	0	62	0	0	0	20	6	16	37	2	270
271	3	0	0	0	0	0	0	0	0	0	280
281	0	0	0	3	3	401	178	2	3	0	290
301	0	0	0	0	0	16	0	0	0	0	310
311	1	0	0	0	49	0	0	0	0	4	320
321	0	0	200	0	0	0	1	0	0	0	330
331	0	0	54	0	1	1	0	0	3	0	340
341	0	23	0	0	0	0	0	0	0	0	350
351	2	2	0	0	0	0	0	3	0	6	360
361	4	0	3	5	0	0	0	7	2	1	370
371	1	0	0	0	19	0	0	0	0	26	380
381	0	0	0	0	0	0	24	0	2	4	390
391	0	93	0	2	2	11	0	0	3	0	400
401	0	0	1	2	5	2	0	34	198	0	410
411	2	0	0	0	2	4	0	0	0	26	420
421	0	1	0	1	0	0	0	1	0	0	430
431	0	0	13	1	10	1	0	0	3	0	440
451	0	24	1	0	0	1	52	1	344	12	460
461	0	2	0	1	122	3	0	0	65	1	470
471	4	145	0	0	1	0	0	0	19	0	480
481	2	20	169	98	0	4	5	0	0	172	490
491	0	0	1973	18	254	6	154	2	26	1	500
501	73	5	0	0	37	0	0	8	34	0	510
511	1	339	459	0	0	0	0	0	0	0	520
521	0	0	0	0	166	2813	816	580	219	741	530
531	1845	1591	2904	6974	95	572	1816	1659	6386	11017	540
541	0	0	0	0	0	0	91050				

ORIGIN ZONE	545	PURPOSE	1	124268 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE		
1	1	0	0	0	0	0	0	0	229	0	10		
11	0	154	95	14	0	0	1	1	16	0	20		
21	7	0	0	0	15	0	0	11	186	0	30		
31	46	5	8	0	0	0	17	0	0	0	40		
41	33	3	3	65	108	0	25	174	0	2	50		
51	15	0	26	0	192	17	0	0	0	0	60		
61	2	0	0	0	7	90	56	47	0	0	70		
71	1	0	0	0	2	24	0	4	8	0	80		
81	5	0	0	0	0	0	0	0	1	0	90		
101	64	0	0	0	0	0	0	0	0	0	110		
111	0	0	11	0	1	0	0	0	0	2	120		
121	0	11	0	16	0	5	3	2	0	0	130		
151	33	0	2	0	18	4	0	0	0	1	160		
161	201	2	2	0	9	0	10	1	0	0	170		
171	0	0	0	0	0	0	0	1	0	7	180		
181	1	0	760	0	7	3	0	0	0	0	190		
201	0	20	2	2	0	0	0	0	0	13	210		
211	0	0	0	0	0	184	0	8	3	16	220		
221	0	0	0	0	0	1203	61	0	8	15	230		
231	0	0	170	16	0	43	962	49	0	13	240		
241	11	0	0	2	0	0	0	6	0	0	250		
251	0	39	0	0	0	9	0	0	1	0	260		
261	0	146	0	173	0	26	37	10	57	4	270		
271	2	0	0	0	0	0	0	0	0	0	280		
281	0	0	0	0	2	137	375	0	0	0	290		
301	0	0	0	0	0	15	0	0	0	5	310		
311	0	0	0	0	25	0	0	1	0	0	320		
321	0	0	141	0	0	1	0	1	0	0	330		
331	0	0	3	1	0	0	1	0	2	0	340		
341	0	18	0	0	0	0	0	0	0	1	350		
351	0	0	0	0	0	0	0	0	0	1	360		
361	0	0	0	1	0	0	0	0	1	0	370		
371	0	0	0	0	25	0	0	0	0	35	380		
381	0	0	0	0	0	0	8	0	0	2	390		
391	0	57	0	11	2	1	0	0	0	0	400		
401	0	0	0	2	1	0	0	36	216	0	410		
411	0	0	0	0	1	12	1	3	1	41	420		
431	0	0	26	1	2	0	0	0	2	0	440		
441	0	1	0	0	0	0	0	0	0	0	450		
451	0	30	1	8	0	40	58	3	170	33	460		
461	0	1	0	0	173	0	0	0	18	0	470		
471	0	31	0	0	16	0	0	0	2	0	480		
481	1	3	84	4	0	3	0	0	0	131	490		
491	0	0	2308	84	337	0	49	0	29	0	500		
501	54	1	0	0	57	3	0	12	148	0	510		

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
PENN CENTRAL RR 100 PERCENT SAMPLE
CARLOADS OF FREIGHT SHIPPED

-CONTINUED-												
511	0	359	0	0	0	0	0	0	0	0	520	
521	0	0	0	0	144	1544	669	791	401	840	530	
531	2308	1085	3555	6323	63	188	826	1789	4387	8316	540	
541	0	0	0	0	0	38595	40770					
ORIGIN ZONE	546	PURPOSE 1	399788 TOTAL ORIG/PROD									
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE	
1	0	0	3	0	0	0	1	0	33	2	10	
11	0	4	32	0	0	4	0	0	1	0	20	
21	0	3	0	0	0	0	0	0	118	0	30	
31	4	19	0	18	11	0	82	5	0	10	40	
41	1	0	0	8	564	0	1	31	0	0	50	
51	0	0	0	0	229	1	0	0	0	0	60	
61	0	0	0	0	0	20	3	7	1	0	70	
71	0	0	0	0	2	0	0	0	21	0	80	
81	0	0	9	0	0	0	0	1	2	0	90	
91	5	9	0	0	0	0	0	0	0	0	100	
101	24	0	96	0	1	29	0	0	14	0	110	
111	1	2	6	0	0	0	0	0	0	0	120	
121	0	12	1	1	0	0	0	499	0	0	130	
131	0	7	0	23	0	20	0	0	0	0	140	
141	0	0	0	0	0	0	0	0	0	2	150	
151	11	0	0	0	0	36	0	2	42	0	160	
161	5	9	0	0	103	0	4	0	1	0	170	
171	0	0	0	0	0	7	0	0	5	0	180	
181	10	3	2197	0	0	0	0	0	0	0	190	
191	2	64	0	2	0	0	0	3	0	4	200	
201	2	9	2	1	0	0	0	0	0	12	210	
211	3	0	0	0	0	144	0	6	2	3	220	
221	0	0	0	0	0	1046	67	2	0	5	230	
231	0	0	42	50	0	658	423	5	3	13	240	
241	7	0	0	107	2	0	0	38	0	0	250	
251	0	2	0	0	0	3	0	0	0	0	260	
261	0	34	0	12	0	36	32	0	2	5	270	
271	23	12	0	0	0	0	0	0	0	0	280	
281	0	0	0	192	50	842	366	32	27	18	290	
291	51	0	0	0	9	0	0	3	11	0	300	
301	0	7	0	0	0	17	0	0	0	1	310	
311	1	0	0	0	436	0	0	0	2	25	320	
321	0	0	2125	0	0	5	0	0	0	5	330	
331	0	0	2	3	7	1	2	0	0	1	340	
341	0	177	0	1	0	1	0	0	0	25	350	
351	3	8	0	0	0	8	0	112	0	27	360	
361	55	0	354	1648	1	0	0	12	0	2	370	
371	5	0	0	0	14	7	30	0	0	0	380	

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
PENN CENTRAL RR 100 PERCENT SAMPLE
CARLOADS OF FREIGHT SHIPPED

PAGE NO. 103
DATE 13 OCT 75
TIME 08.17.53

-CONTINUED-											
381	0	0	0	0	0	6	1	6	0	0	390
391	0	74	0	0	24	7	0	0	28	0	400
401	0	0	4	14	1	0	0	0	539	1	410
411	2	2	0	7	2	0	0	0	6	0	420
421	0	2	2	9	0	0	0	32	0	0	430
431	0	0	25	0	9	0	0	0	0	0	440
441	4	122	0	0	0	0	0	5	0	58	450
451	0	4	2	4	0	0	3	0	109	8	460
461	0	4	0	0	3	13	0	0	17	0	470
471	0	3	2	2	0	9	0	0	8	0	480
481	0	2	168	960	0	36	40	0	0	13	490
491	0	2	10582	1753	15474	196	1765	232	3227	96	500
501	812	1197	0	0	57	0	0	4	531	201	510
511	529	6452	0	0	14	23	0	0	55	70	520
521	559	2435	5848	282	69332	4123	12556	28326	84	338	530
531	3257	1369	2933	8570	87	296	2472	2024	156573	27304	540
541	0	0	0	0	11289	0	0	0	0	0	0

ORIGIN ZONE 547 PURPOSE 1 213378 TOTAL ORIG/PROD

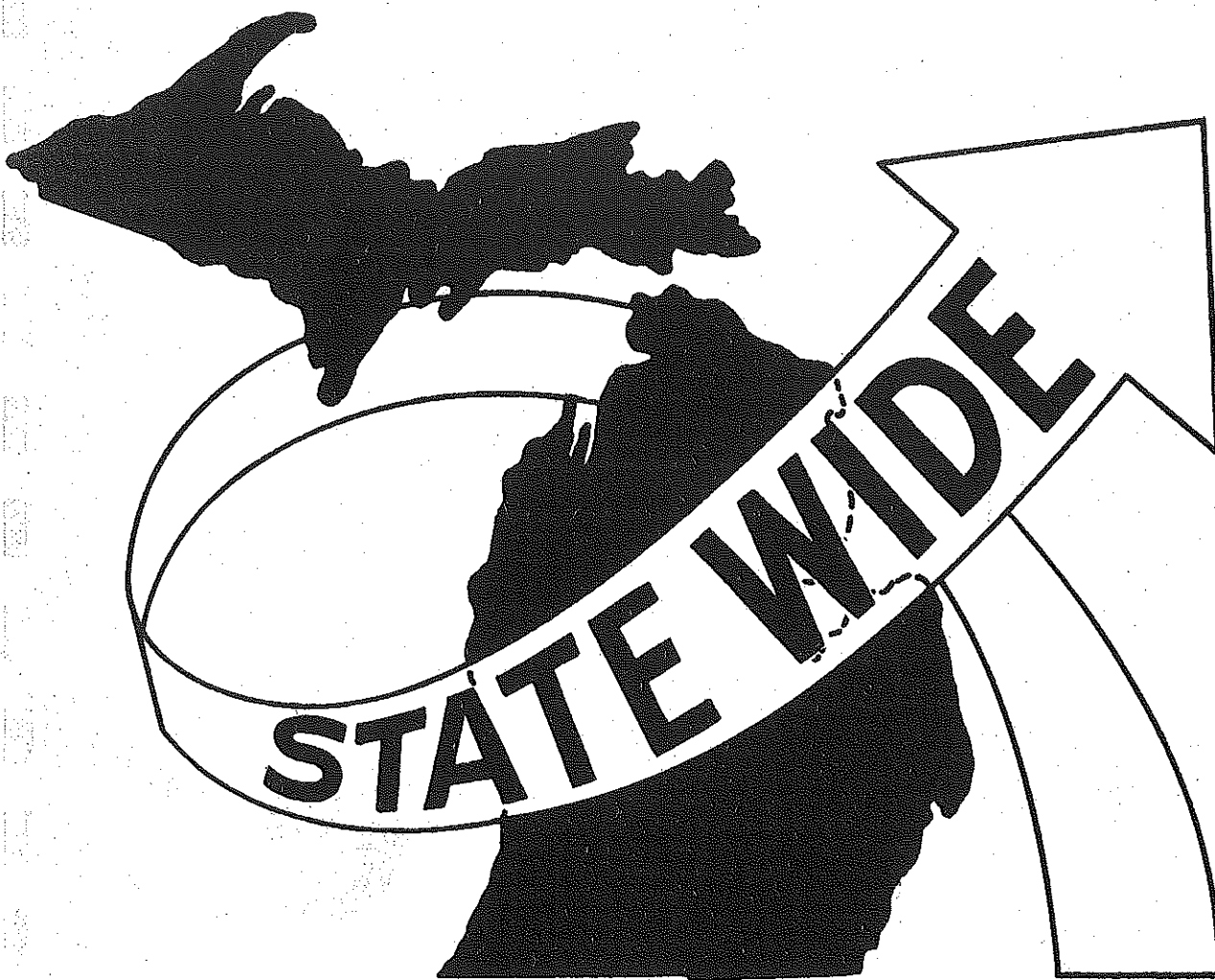
TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	4	0	0	0	8	1	20	0	10
11	0	3	6	0	0	1	0	3	0	0	20
21	0	0	0	0	7	0	0	0	52	0	30
31	2	3	0	1	0	0	107	16	0	4	40
41	0	0	0	6	247	0	1	36	0	0	50
51	0	0	0	0	147	0	0	0	0	0	60
61	0	0	0	0	0	95	148	10	0	0	70
71	0	0	0	0	0	1	0	0	27	0	80
81	0	0	0	0	0	0	2	3	1	0	90
91	0	12	0	0	0	0	0	0	0	0	100
101	2	0	13	0	0	2	0	0	2	0	110
111	0	3	0	0	0	0	0	0	0	0	120
121	0	5	14	1	0	0	0	2904	0	0	130
131	0	64	0	1	0	7	0	0	0	0	140
151	3	22	0	0	0	10	0	3	2	1	160
161	20	0	0	0	0	0	20	0	0	0	170
171	0	0	0	0	0	8	29	0	3	1	180
181	5	5	2468	0	0	0	0	0	0	0	190
191	0	2	0	0	0	0	0	0	0	0	200
201	0	55	1	4	0	0	0	0	0	3	210
211	0	0	0	0	0	35	0	0	0	0	220
221	0	0	0	0	0	574	46	0	0	0	230
231	0	0	25	2	0	318	780	16	0	0	240
241	3	0	0	0	1	0	0	14	0	0	250
251	0	3	0	0	0	0	0	0	1	0	260

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

-CONTINUED-

261	0	38	0	0	0	0	51	43	0	0	270
271	7	0	0	0	27	0	0	0	0	0	280
281	0	0	0	75	67	714	223	13	8	1	290
291	7	0	1	0	14	0	0	3	6	0	300
301	0	2	0	0	0	0	0	0	0	0	310
311	3	0	0	0	112	0	0	0	0	0	320
321	0	0	119	0	0	0	0	0	0	0	330
331	0	0	4	0	0	0	0	0	0	0	340
341	0	44	0	1	0	0	0	0	0	24	350
351	0	3	0	0	0	0	19	1509	0	4	360
361	10	0	0	60	0	0	0	44	1	1	370
371	1	0	2	0	0	2	2	0	0	0	380
381	0	0	0	0	0	0	0	1	0	0	390
391	0	4	0	0	46	0	0	0	3	8	400
401	0	0	1	0	0	0	0	0	1072	0	410
411	36	0	0	25	0	0	0	0	0	0	420
421	0	0	2	0	0	0	0	0	0	6	430
431	0	2	10	0	1	0	0	0	0	0	440
441	0	39	0	0	0	0	0	0	0	0	450
451	0	9	1	1	0	0	1	0	80	0	460
461	0	0	0	0	0	0	1	0	38	1	470
471	10	3	67	0	0	12	0	12	8	0	480
481	0	2	19	1204	0	38	26	0	0	20	490
491	0	0	6615	437	5306	347	2669	60	2470	96	500
501	1560	358	0	0	0	0	0	0	0	0	510
511	0	0	0	0	3	2	0	0	46	8	520
521	382	1664	3253	94	43260	1881	9110	5227	116	172	530
531	1107	846	2466	4297	87	43	1770	1905	17839	9518	540
541	0	0	28065	38376	7365	0	0	0	0	0	

APPENDIX II



TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
1	1	65	66	0	41	112	137	249	0
2	0	0	0	0	42	1	33	34	0
3	87	15	102	0	43	3	10	13	0
4	33	0	33	0	44	349	305	654	0
5	0	0	0	0	45	206	1827	2033	0
6	0	0	0	0	46	0	0	0	0
7	1	25	26	0	47	201	215	416	0
8	0	2	2	0	48	271	1718	1989	0
9	1947	3577	5524	1	49	0	18	18	0
10	17	49	66	0	50	13	34	47	0
11	0	0	0	0	51	507	235	742	0
12	283	762	1045	0	52	0	0	0	0
13	742	345	1087	0	53	15	74	89	0
14	1	24	25	0	54	0	0	0	0
15	0	2	2	0	55	20219	4523	24742	7
16	33	41	74	0	56	48	71	119	0
17	4	11	15	0	57	0	0	0	0
18	13	19	32	0	58	0	0	0	0
19	9	94	103	0	59	0	0	0	0
20	537	2	539	0	60	0	0	0	0
21	1	10	11	0	61	7	6	13	0
22	187	56	243	0	62	0	0	0	0
23	5	1	6	0	63	0	0	0	0
24	0	0	0	0	64	0	0	0	0
25	69	135	204	0	65	13	13	26	0
26	0	14	14	0	66	267	1426	1693	0
27	0	0	0	0	67	153	515	668	0
28	7	45	52	0	68	346	1028	1374	0
29	2654	14266	16920	0	69	7	13	20	0
30	0	0	0	0	70	0	0	0	0
31	118	165	283	0	71	2	22	24	0
32	32	95	127	0	72	3	9	12	0
33	62	23	85	0	73	4	0	4	0
34	8	28	36	0	74	0	0	0	0
35	5	13	18	0	75	0	13	13	0
36	2	1	3	0	76	10	45	55	0
37	1801	448	2249	3	77	0	0	0	0
38	2724	26	2750	0	78	5	74	79	0
39	0	0	0	0	79	905	339	1244	0
40	68	251	319	0	80	12	63	75	0

TRIP END SUMMARY

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
81	9	27	36	0	121	0	0	0	0
82	0	0	0	0	122	152	541	693	0
83	18	16	34	0	123	7	47	54	0
84	0	0	0	0	124	35	212	247	0
85	0	0	0	0	125	0	0	0	0
86	0	0	0	0	126	66	8	74	0
87	35	14	49	0	127	0	8	8	0
88	14	5	19	0	128	13932	20448	34380	0
89	0	12	12	0	129	1	3	4	0
90	0	0	0	0	130	8	4	12	0
91	4	13	17	0	131	0	2	2	0
92	14	35	49	0	132	3150	664	3814	0
93	0	0	0	0	133	0	1	1	0
94	0	0	0	0	134	2	48	50	0
95	1	3	4	0	135	0	0	0	0
96	0	10	10	0	136	526	119	645	0
97	0	0	0	0	137	0	0	0	0
98	0	0	0	0	138	10	6	16	0
99	26	1	27	0	139	4	3	7	0
100	0	0	0	0	140	3	1	4	0
101	56	210	266	0	141	0	0	0	0
102	1	0	1	0	142	0	0	0	0
103	55	276	331	0	143	0	0	0	0
104	11	0	11	0	144	0	0	0	0
105	4	2	6	0	145	0	0	0	0
106	1336	195	1531	0	146	21	3	24	0
107	26	0	26	0	147	4	0	4	0
108	0	0	0	0	148	0	0	0	0
109	53	73	126	0	149	0	0	0	0
110	1	0	1	0	150	69	2	71	0
111	4	4	8	0	151	67	172	239	0
112	3	22	25	0	152	10	44	54	0
113	156	334	490	0	153	31	13	44	0
114	30	0	30	0	154	0	0	0	0
115	0	2	2	0	155	0	23	23	0
116	0	1	1	0	156	738	715	1453	0
117	0	0	0	0	157	22	0	22	0
118	0	0	0	0	158	192	10	202	0
119	16	0	16	0	159	82	69	151	0
120	143	13	156	0	160	104	9	113	0

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
161	4250	1853	6103	0	201	615	3	618	0
162	30	36	66	0	202	74	242	316	0
163	13	22	35	0	203	8	31	39	0
164	0	0	0	0	204	1	33	34	0
165	276	222	498	0	205	2	0	2	0
166	7	0	7	0	206	0	0	0	0
167	38	150	188	0	207	0	0	0	0
168	0	1	1	0	208	0	0	0	0
169	28	14	42	0	209	0	0	0	0
170	11	13	24	0	210	13	45	58	0
171	0	0	0	0	211	46	12	58	0
172	2	0	2	0	212	0	0	0	0
173	3	0	3	0	213	1	7	8	0
174	0	0	0	0	214	0	0	0	0
175	0	0	0	0	215	1	1	2	0
176	5	45	50	0	216	7518	4918	12436	0
177	352	37	389	0	217	0	0	0	0
178	30	9	39	0	218	71	51	122	0
179	288	19	307	0	219	0	8	8	0
180	0	24	24	0	220	4	88	92	0
181	1068	72	1140	0	221	0	0	0	0
182	1	22	23	0	222	0	0	0	0
183	11268	21696	32964	2	223	26	2	28	0
184	1	0	1	0	224	0	0	0	0
185	20	16	36	0	225	0	0	0	0
186	861	21	882	0	226	17544	14079	31623	0
187	58	5	63	0	227	741	3113	3854	0
188	0	0	0	0	228	0	9	9	0
189	0	0	0	0	229	1	16	17	0
190	27	1	28	0	230	615	143	758	0
191	0	7	7	0	231	0	0	0	0
192	261	159	420	0	232	0	0	0	0
193	0	14	14	0	233	304	946	1250	0
194	90	17	107	0	234	57	359	416	0
195	0	0	0	0	235	0	0	0	0
196	0	0	0	0	236	24510	1731	26241	0
197	0	0	0	0	237	9028	10927	19955	2
198	4	7	11	0	238	55	212	267	0
199	16	114	130	0	239	0	45	45	0
200	11	31	42	0	240	23	94	117	0

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
241	30	179	209	0	281	0	0	0	0
242	0	0	0	0	282	11	0	11	0
243	0	0	0	0	283	1	6	7	0
244	213	179	392	0	284	100	414	514	0
245	51	347	398	0	285	9	270	279	0
246	0	0	0	0	286	19063	11127	30190	0
247	0	0	0	0	287	3283	2879	6162	3
248	131	524	655	0	288	16	148	164	0
249	0	0	0	0	289	61	60	121	0
250	0	0	0	0	290	54	335	389	0
251	0	4	4	0	291	1561	1630	3191	0
252	151	305	456	0	292	0	0	0	0
253	0	1	1	0	293	69	3	72	0
254	9	0	9	0	294	1	0	1	0
255	0	1	1	0	295	5	52	57	0
256	0	22	22	0	296	0	0	0	0
257	0	0	0	0	297	2	0	2	0
258	126	28	154	0	298	4	13	17	0
259	9	32	41	0	299	29	356	385	0
260	0	0	0	0	300	0	0	0	0
261	0	0	0	0	301	0	0	0	0
262	1826	592	2418	0	302	508	187	695	0
263	0	0	0	0	303	40	91	131	0
264	155	706	861	0	304	0	0	0	0
265	0	0	0	0	305	0	0	0	0
266	866	799	1665	0	306	2	108	110	0
267	32	231	263	0	307	0	0	0	0
268	5	148	153	0	308	0	0	0	0
269	115	144	259	0	309	0	2	2	0
270	1	12	13	0	310	1	14	15	0
271	50	84	134	0	311	172	37	209	0
272	22	20	42	0	312	6	0	6	0
273	0	0	0	0	313	1	0	1	0
274	0	2	2	0	314	1	0	1	0
275	0	29	29	0	315	4133	9180	13313	0
276	0	0	0	0	316	0	0	0	0
277	61	1	62	0	317	3	0	3	0
278	0	0	0	0	318	0	1	1	0
279	0	0	0	0	319	16	2	18	0
280	1	6	6	0	32	1	51	51	0

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
321	0	0	0	0	361	1	91	92	0
322	0	0	0	0	362	0	0	0	0
323	9192	30104	39296	1	363	10	362	372	0
324	0	1	1	0	364	3195	3255	6450	0
325	43	3	46	0	365	1	3	4	0
326	971	2914	3885	0	366	0	0	0	0
327	8	1	9	0	367	0	0	0	0
328	86	1	87	0	368	30	90	120	0
329	0	0	0	0	369	0	9	9	0
330	135	12	147	0	370	211	144	355	0
331	0	0	0	0	371	1	7	8	0
332	68	2	70	0	372	0	0	0	0
333	175	1574	1749	2	373	11	2	13	0
334	0	14	14	0	374	7	12	19	0
335	612	151	763	0	375	2	102	104	0
336	16	22	38	0	376	18	11	29	0
337	33	9	42	0	377	26	69	95	0
338	54	2	56	0	378	0	0	0	0
339	6	6	12	0	379	0	0	0	0
340	6	9	15	0	380	113	201	314	14
341	0	0	0	0	381	0	0	0	0
342	1091	936	2027	0	382	0	0	0	0
343	0	0	0	0	383	258	181	439	0
344	0	18	18	0	384	0	0	0	0
345	0	0	0	0	385	0	0	0	0
346	0	3	3	0	386	598	18	616	0
347	0	0	0	0	387	8	94	102	0
348	0	0	0	0	388	3	56	59	0
349	0	0	0	0	389	0	6	6	0
350	189	54	243	0	390	2	7	9	0
351	0	11	11	0	391	0	0	0	0
352	4	18	22	0	392	1501	768	2269	0
353	0	0	0	0	393	0	0	0	0
354	0	5	5	0	394	16	22	38	0
355	0	0	0	0	395	609	263	872	0
356	4	8	12	0	396	1	62	63	0
357	0	23	23	0	397	3	0	3	0
358	3733	7509	11242	0	398	0	9	9	0
359	0	0	0	0	399	11	63	74	0
360	1	52	53	0	400	1	8	9	0

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
 PENN CENTRAL RR 100 PERCENT SAMPLE
 CARLOADS OF FREIGHT SHIPPED

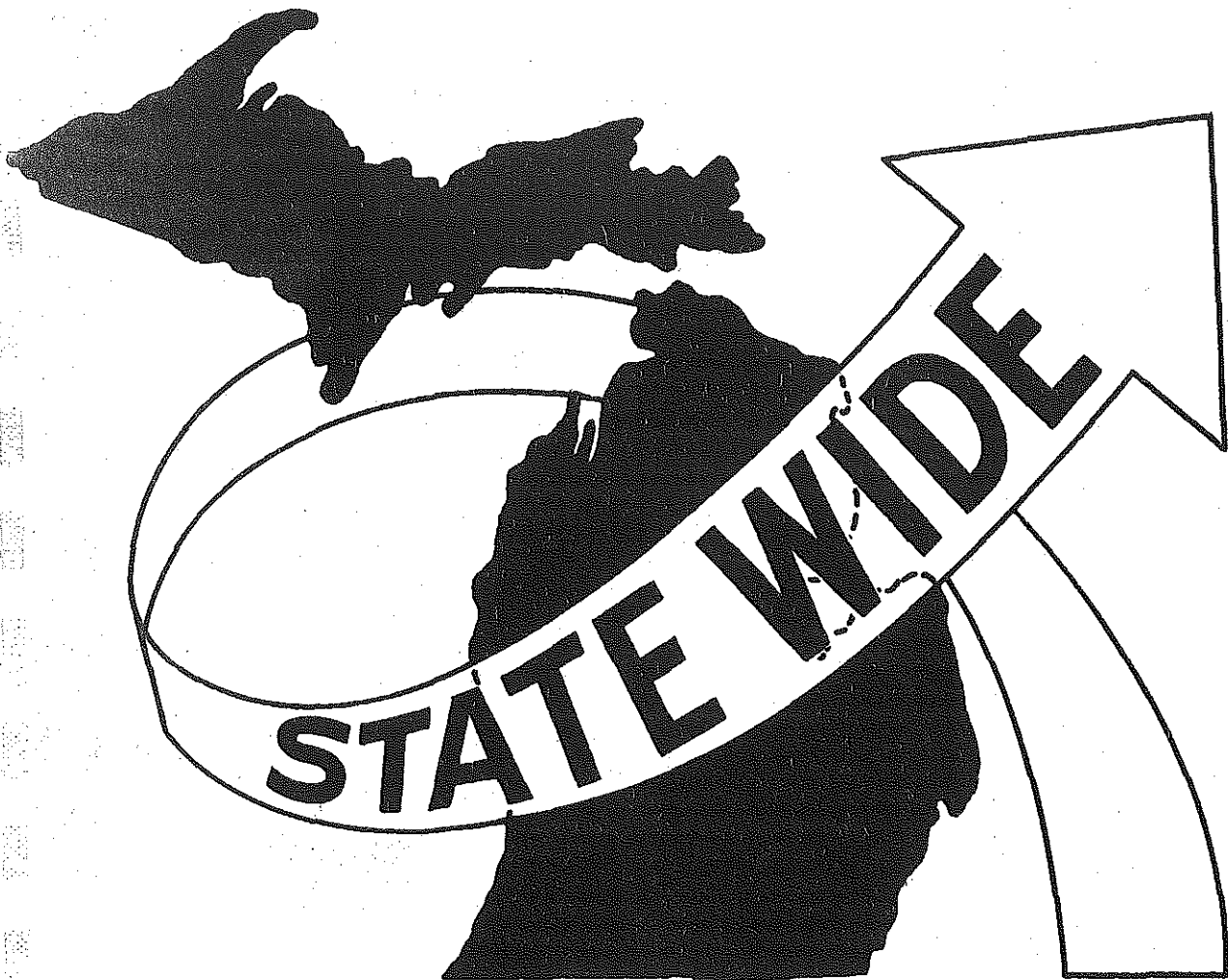
TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
401	0	0	0	0	441	39	7	46	0
402	0	0	0	0	442	2990	373	3363	0
403	29	177	206	0	443	0	0	0	0
404	110	38	148	0	444	0	0	0	0
405	0	13	13	0	445	0	0	0	0
406	9	5	14	0	446	1	0	1	0
407	0	0	0	0	447	0	0	0	0
408	187	95	282	0	448	11	10	21	0
409	4268	7233	11501	0	449	16	0	16	0
410	2	1	3	0	450	0	64	64	0
411	940	184	1124	0	451	30	10	40	0
412	264	2	266	0	452	1122	415	1537	0
413	0	0	0	0	453	17	27	44	0
414	27	45	72	0	454	193	147	340	0
415	0	28	28	0	455	0	2	2	0
416	6	38	44	0	456	3	91	94	0
417	9	4	13	0	457	148	349	497	0
418	13	12	25	0	458	0	44	44	0
419	5	10	15	0	459	2639	2933	5572	0
420	93	156	249	0	460	675	209	884	0
421	0	0	0	0	461	0	0	0	0
422	1	3	4	0	462	24	10	34	0
423	291	290	581	0	463	0	0	0	0
424	18	67	85	0	464	8	1	9	0
425	6	12	18	0	465	209	810	1019	0
426	0	0	0	0	466	56	42	98	0
427	110	1	111	0	467	28	2	30	0
428	14	48	62	0	468	229	15	244	0
429	23	2	25	0	469	64	668	732	0
430	72	49	121	0	470	158	5	163	0
431	13	0	13	0	471	9	40	49	0
432	29	2	31	0	472	60	244	304	0
433	280	288	568	0	473	50	69	119	0
434	1	5	6	0	474	0	5	5	0
435	16	28	44	0	475	4	36	40	0
436	14	2	16	0	476	0	79	79	0
437	0	4	4	0	477	0	0	0	0
438	5	0	5	0	478	11	25	36	0
439	75	16	91	0	479	43	333	376	0
440			0		480			0	

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
481	0	3	3	0	521	10432	8993	19425	0
482	3	67	70	0	522	23606	11781	35387	0
483	1515	1608	3123	0	523	26787	27578	54365	0
484	14452	20424	34876	0	524	2496	1356	3852	0
485	0	0	0	0	525	137391	202961	340352	0
486	168	211	379	0	526	88827	42698	131525	0
487	1592	353	1945	0	527	66638	42764	109402	0
488	0	0	0	0	528	62041	107256	169297	0
489	0	0	0	0	529	5641	4745	10386	0
490	549	567	1116	0	530	5461	8615	14076	0
491	0	0	0	0	531	7542	16786	24328	0
492	157	37	194	0	532	12963	14535	27498	0
493	93899	89735	183634	5	533	87884	62044	149928	0
494	17908	7628	25536	0	534	155941	89940	245881	0
495	22411	38536	60947	4	535	3475	4482	7957	0
496	5767	1021	6788	0	536	4078	3514	7592	0
497	20657	8366	29023	0	537	47403	66635	114038	0
498	13	535	548	0	538	94378	32934	127312	0
499	6619	26717	33336	22	539	391626	347942	739568	0
500	675	354	1029	0	540	198455	227327	425782	0
501	6462	8265	14727	1	541	165627	130385	296012	0
502	3831	2255	6086	0	542	224787	127291	352078	0
503	0	0	0	0	543	137303	132030	269333	0
504	0	0	0	0	544	144480	108420	252900	0
505	195	408	603	0	545	124268	46230	170498	0
506	153	4	157	0	546	399788	551495	951283	0
507	1287	2	1289	0	547	213378	413501	626879	0
508	28	45	73	0					
509	8744	6435	15179	0					
510	878	410	1288	0					
511	12830	990	13820	0					
512	22344	29139	51483	0					
513	19066	23036	42102	0					
514	5	0	5	0					
515	271	54	325	0					
516	255	927	1182	0					
517	111	1	112	0					
518	1	0	1	0					
519	1917	457	2374	0					
520	3299	206	3505	0					
TOTALS	3319255	3319255	6638510	67					

APPENDIX III



DATA NOT INCLUDED IN COMMODITY FLOW MATRIX

PENN CENTRAL RAILROAD 1973 100% SAMPLE

1
2
3

000TOLED205002599916000010000000700000032E0704546549
000CHGO 076004511110000010000001500000059D0897546549
0008UFF 431001011190000450000033320000426E0454546549

Entries not included in the matrix:

(1) were missing origin or destination SPLC

AND

(2) either (a) displayed a nonexistent
railroad code

or (b) displayed an FSAC outside
the range of FSACs for the
railroad displayed

or (c) were missing FSAC

for the trip end with missing SPLC.

-0	Destination SPLC
-0	Origin SPLC
-0	Destination FSAC
620599999	Destination Railroad Code
697626998	Origin FSAC
83431	Origin Railroad Code
675622	
684622	
952622	

675622	3F622	6020599999191510	-0	000TOLED20500259991600001000000070000032E0704546549	1
684622	5F622	69 7626998191553	-0	000CHGO 0760045111100000100000150000059D0897546549	2
952622	2F622	83431 9880191486	-0	0008UFF 431001011119000045000033320000426E04546549	3
2064622	3F622	9072425353191496	-0	000POTYD7240020144110000100000054000002680228546549	4
3124622	3F622	13171234485191880	-0	000POTYD66300307113500001000000180000013C0217546549	5
3129622	4F622	13144437111191880	-0	000CINTI44400371112000030000007200002465<0721546549	6
3434622	3F622	149208 5194236	-0	000CARTN20800249981200001000000120000042A0674546549	7
3633622	3F622	151712 1139194243	-0	000POTYD66300363211200001000000090000014H0210546549	8
10009622	3F622	818103 16207216	-0	000WILBA19500325511000001000000480000033B0231546549	9
10159622	3F622	818208 9999207216	-0	000TOLED2080029914900010400005197000370880597546549	10
10165622	3F622	81820817000207216	-0	000TOLED2080029914900008000004320000308A0597546549	11
11855622	3F622	928 5041236207472	-0	000MILLV05000361321000001000000120000025I0357546549	12
11996622	3F622	941242 1207117	-0	000ESTL 69400284239000001000000320000091D0973546549	13
12659622	5F622	971103 17207477	-0	000PHPB643100411141300001000000230000009C0U83546549	14
13008622	3F622	1073103 8169209127	-0	000LIMA 20800352252500001000000200000028I0562546549	15
13924622	3F622	1075350 5224209119	-0	000MILRS3570035225720000100000150000049I0743546549	16
14224622	3F622	1075351 7421209119	-0	000ESTL 35100352257200001000000120000035G0907546549	17
15127622	3F622	108372429672208680	-0	000POTYD72400266121000001000000210000011D0163546549	18
15432622	5F622	1094103 3208739	-0	000WILBA19500421114000002000000200000011H0182546549	19
16339622	3F622	1116431 1268206701	-0	000PHPB64310120995150000100000200000007G0179546549	20
16837622	3F622	1138195 32209200	-0	000WILBA19500204219000001000000250000012V0157546549	21
18085622	3F622	1176208 9999209189	-0	000TOLED20800321111000001000000580000071G0504546549	22
18582622	3F622	1204103 3206260	-0	000WILBA19500262111500001000000060000003C0121546549	23
18583622	5F622	1204103 3206260	-0	000WILBA19500421114000005000000310000027B0121546549	24
19755622	3F622	1255431 1293206744	-0	000PHPB64310120995150000100000005000000800186546549	25
20587622	3F622	1324 76 6998209730	-0	000CHGO 07601322915000001000000150000030I0776546549	26
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21019622	3F622	1350842 963253300	-0	000KRNJC24000329594800001000000800000031<0294541549	28
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22219622	3F622	160820599999212499	-0	000TOLED20500325524800001000000480000038H0373546549	31
22319622	1F622	164843170036212933	-0	0008UFF 43100 11331000002000001350000128C0339546549	32
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22927622	3F622	2223208 9999208232	-0	000TOLED20800325524800001000000450000041F0585546549	34
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24549622	3F622	2733208 9999201724	-0	000LIMA 2080039621850000200000180000086D0486546549	38
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29153622	3F622	3212 50 6855234070	-0	000WHLNG05000281999500001000000570000081G0400546549	45
30124622	3F622	3232351 7104232357	-0	000POTYD72400331233100005000003150000156A0058546549	46
31688622	3F622	3341842 963240034	-0	000KRNJC24000324992100000100000160000022D0225546549	47
31802622	3F622	336272472409251106	-0	000POTYD72400307114500003000000390000090A0005541549	48
31906622	3F622	3383103 6443232307	-0	0008UFF 10300329596000001000000400000031B0383546549	49
32778622	3F622	343720599999209550	-0	000TOLED2050026542150000100000070000029<0532546549	50
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34468622	3F622	3957350 5185254757	-0	000MILRS3570020332200001000000300000063E0964541549	52
34756622	3F622	4087208 5215302	-0	000TOLED20800331225300003000001920000176<0317546549	53
35227622	3F622	408720599999215302	-0	000TOLED20500331512000002000001000000097E0317546549	54
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35630622	3F622	4168351 7100217657	-0	000INDAP35100306141000001000000390000054<0402546549	56
36354622	4F622	4234351 4575218504	-0	000ESTL 35100371121500001000000170000032F0617546549	57
36584622	3F622	426920599999218513	-0	000TOLED20500331243300001000000510000044F0250546549	58
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36674622	3F622	4281351 423218515	-0	000ESTL 31700331225300001000000800000092<0622546549	60
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38734622	3F622	4509351 7242219536	-0	000G18SN	35700331233100001000000640000061G0502546549	67
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44148622	5F622	5411351 7441218589	-0	000ESTL	35110461111000001000000190000024C0616546549	79
44149622	5F622	5411351 7441218589	-0	000LOUUVL	35110461111000001000000190000020E0473546549	80
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46386622	3F622	5512351 7100344802	-0	000ESTL	31700331266800002000000630000077G0563539549	87
46387622	3F622	5512351 7100344802	-0	000ESTL	351003312668000024000006870000827A0563539549	88
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						127

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