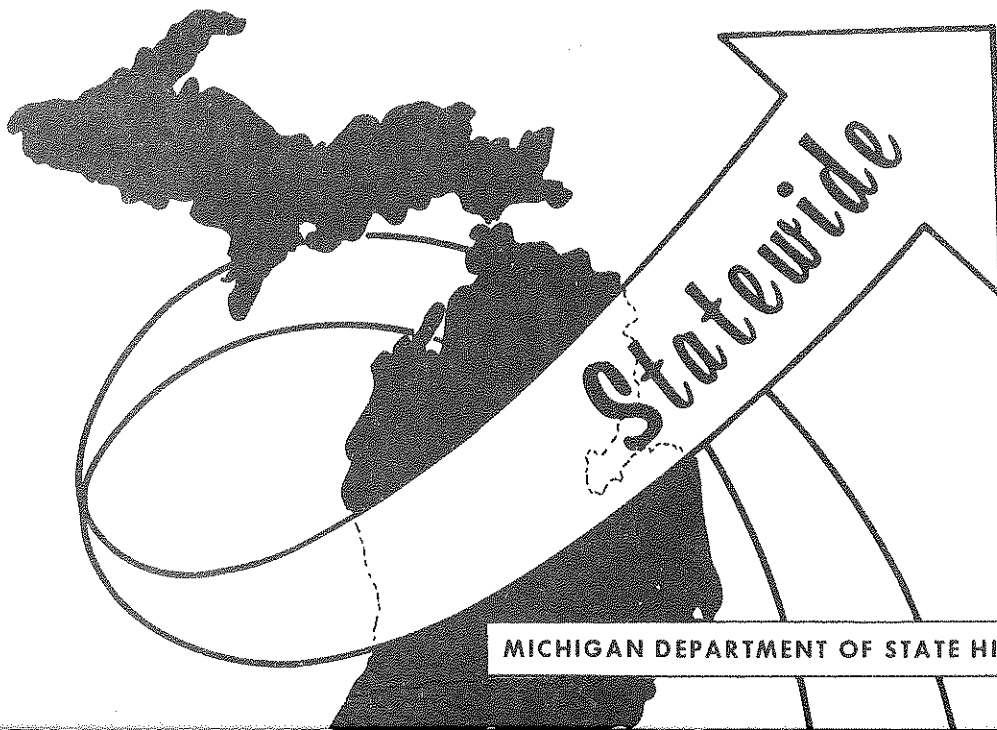# Statewide
Transportation
Analysis &
Research

MICHIGAN'S STATEWIDE
TRANSPORTATION MODELING SYSTEM

VOLUME XIV-A

COMMODITY FLOW MATRIX

ANN ARBOR RAILROAD

STATEWIDE TRANSPORTATION PLANNING PROCEDURES

JULY, 1975

Statewide

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN DEPARTMENT

OF

STATE HIGHWAYS AND TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING

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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-A 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 from the Ann Arbor 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,

R. J. Lilly, Administrator
Highway Planning Division

MICHIGAN
THE
GREAT
LAKE
STATE

COMMODITY FLOW MATRIX

ANN ARBOR RAILROAD

by Lawrence G. Scott

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PREFACE

STATE WIDE

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 Ann Arbor Railroad.

1
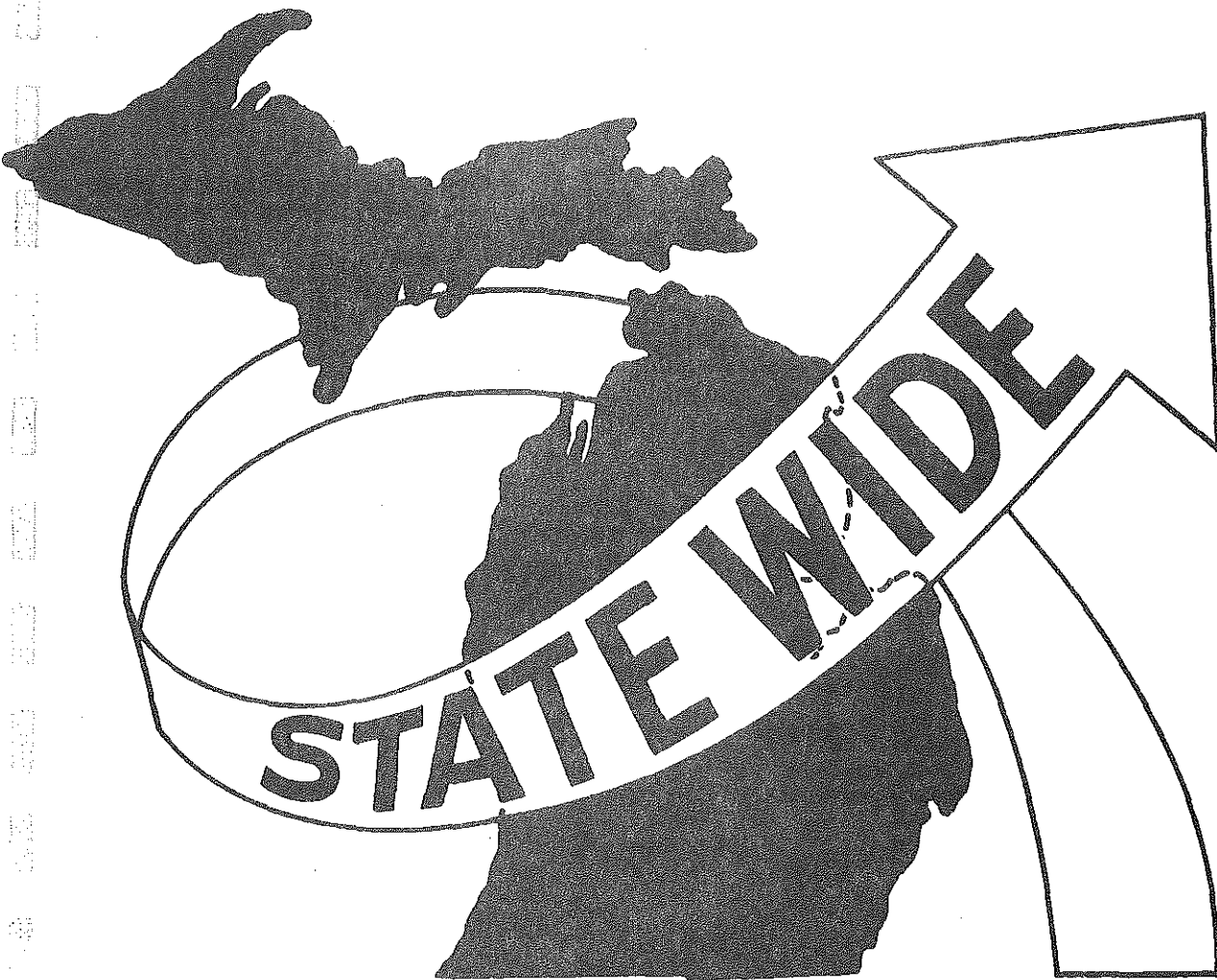
INTRODUCTION

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 Ann Arbor Railroad.   The procedures described herein converted a 1973 100% waybill sample for the Ann Arbor 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-A in the Statewide Series of reports.   Volumes XIV-B and XIV-C describe two other commodity flow matrices available on the Statewide System: XIV-B is a
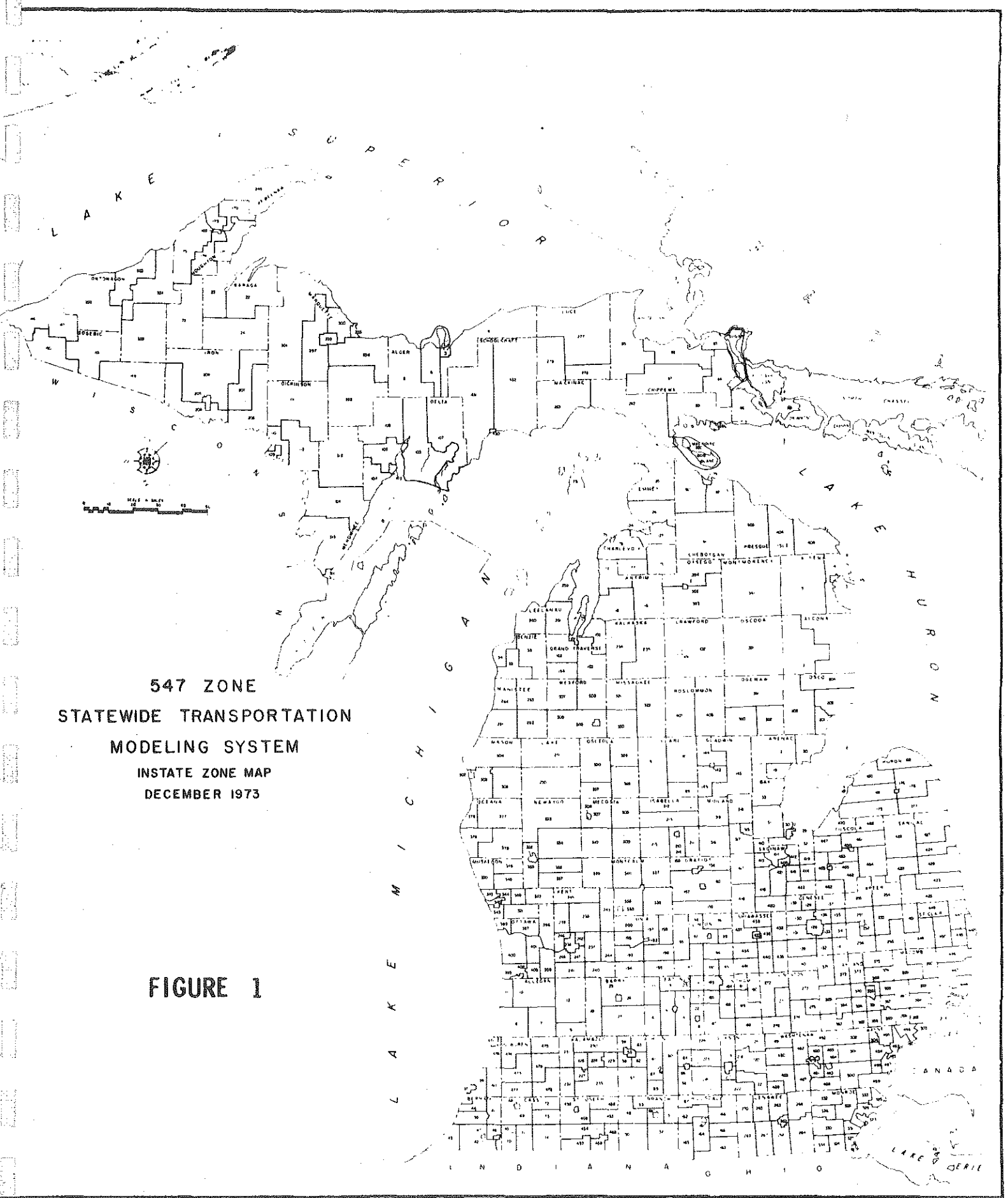
547 ZONE

STATEWIDE TRANSPORTATION

MODELING SYSTEM

INSTATE ZONE MAP

DECEMBER 1973

FIGURE 1

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE
OUTSTATE ANALYSIS ZONES

ONTARIO 511

MINNESOTA 545

WISCONSIN 521

IOWA 544

MICHIGAN

NEW YORK 547

ILLINOIS 526

INDIANA 534

OHIO 540

PENNSYLVANIA 546

WEST VIRGINIA 541

MISSOURI 543

KENTUCKY 542

FIGURE 2

MICHIGAN'S
TRANSPORTATION MODELING SYSTEM

FIGURE 3

547 ZONE
NORTH AMERICA ANALYSIS ZONES

1973 100% waybill sample for the Penn Central Railroad and XIV-C

is a 1972 1% waybill sample of all frieght 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
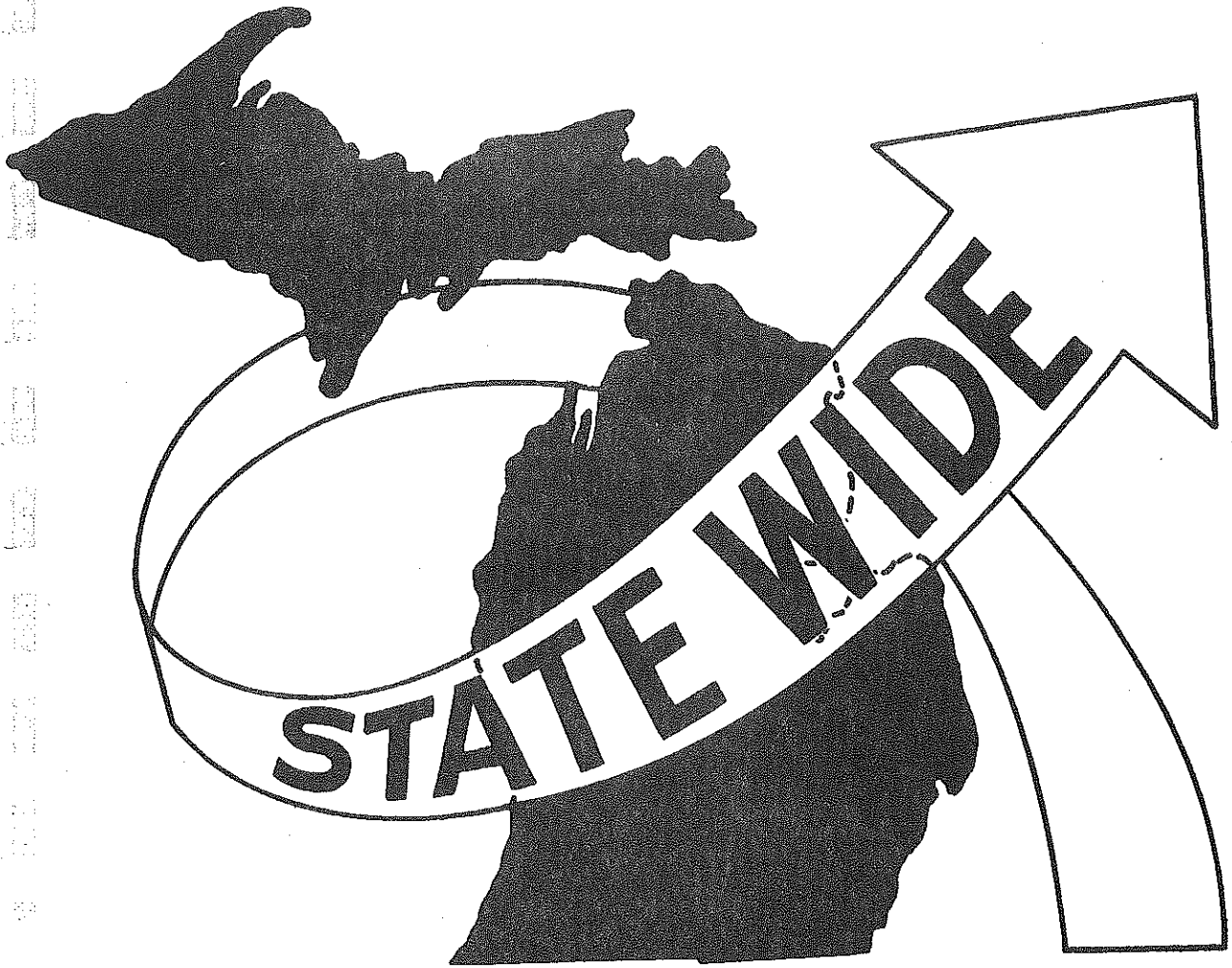
COMMODITY FLOW MATRIX DEVELOPMENT

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.

7

FLOWCHART OF COMMODITY FLOW MATRIX DEVELOPMENT
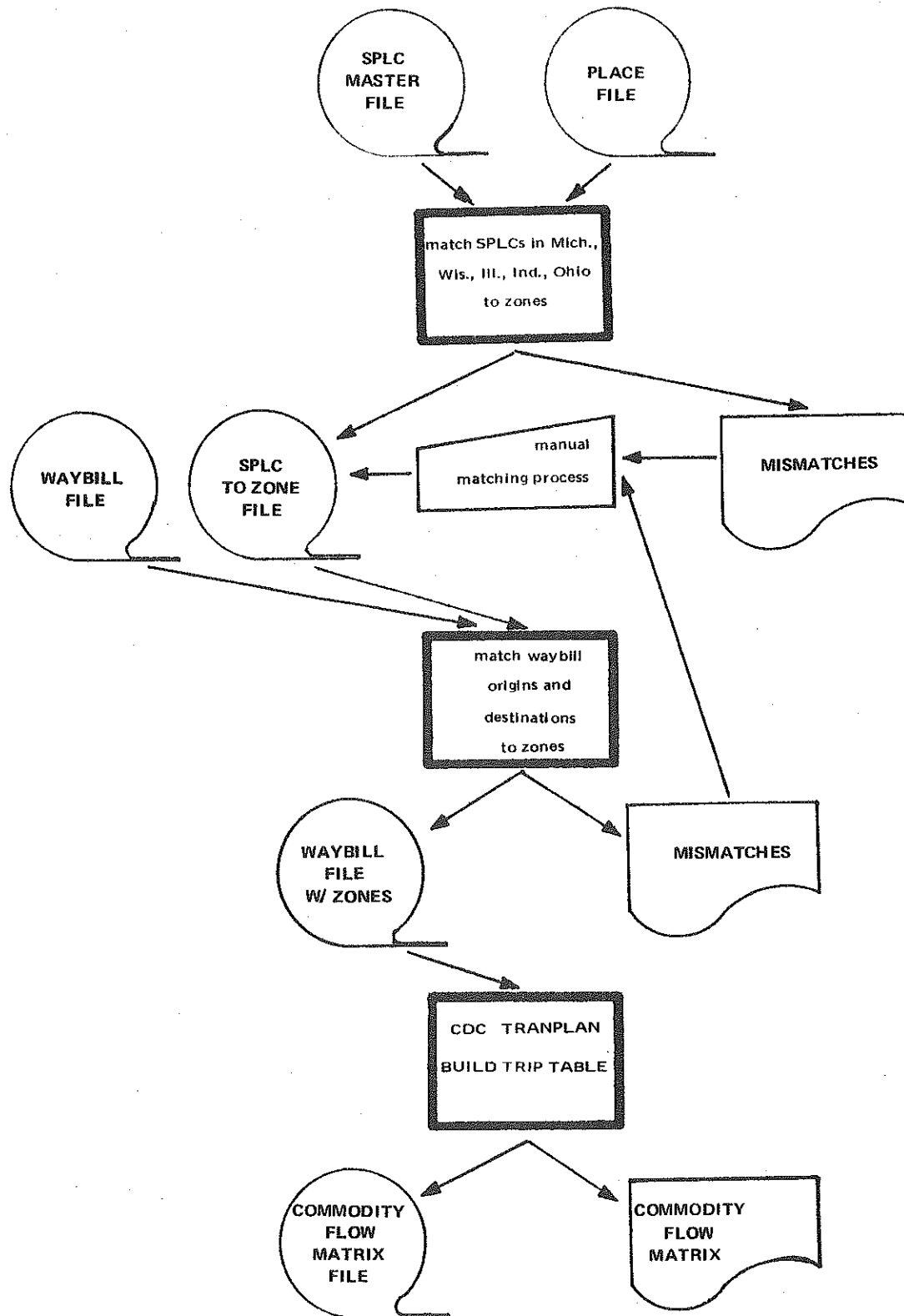
FIGURE 4

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 Ann Arbor railroad, the matching process was good: of the 25,728 entries on the waybill file, 172 could not be matched to statewide zones. Those entries, reproduced in Appendix III were missing SPLCs and could not be manually matched by FSAC.

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.

COMMODITY FLOW MATRIX

STATE WIDE
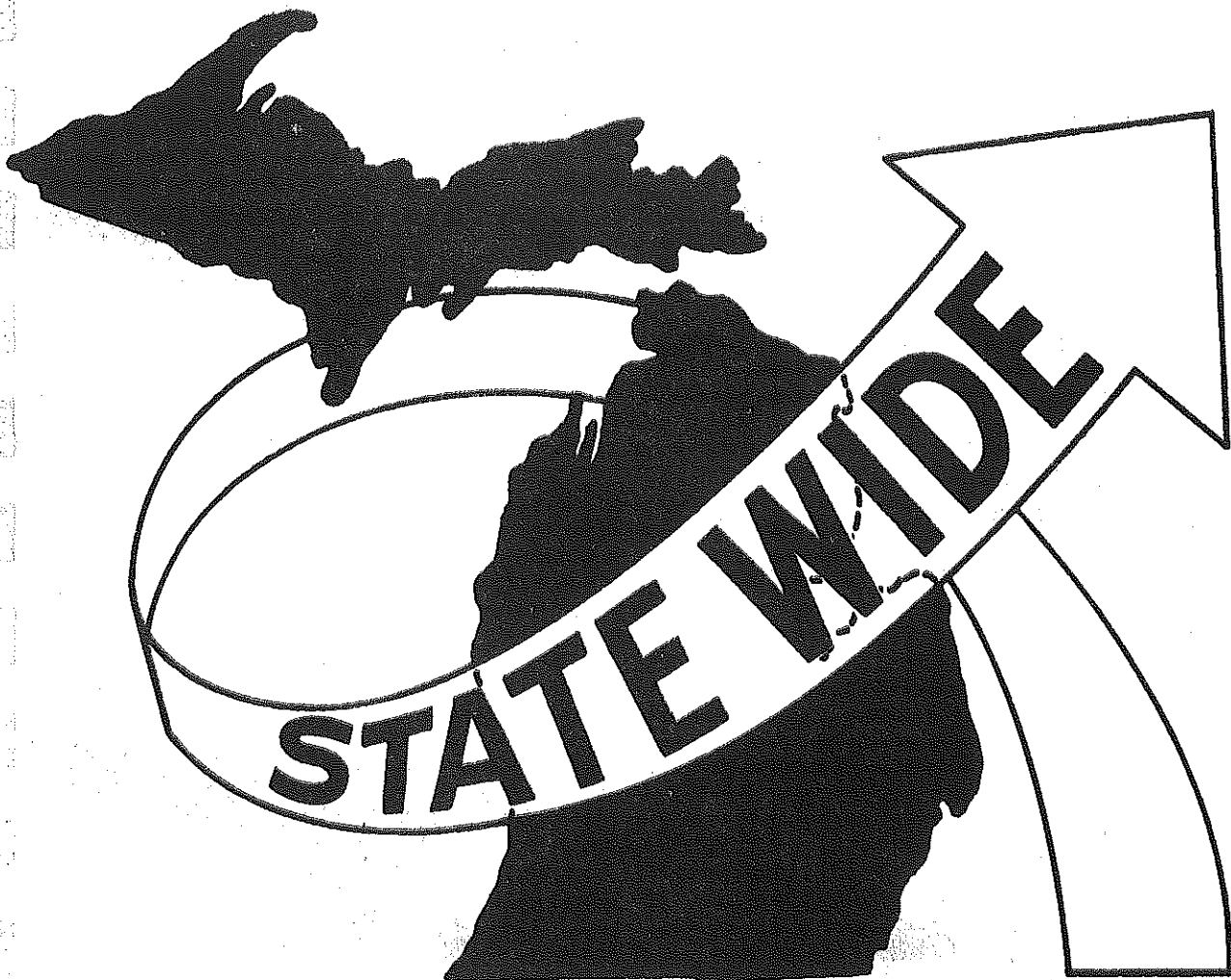
COMMODITY FLOW MATRIX

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 Ann Arbor Railroad in 1973. 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 5 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

Ann Arbor 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

    0 = Non - intermodal
    I = Intermodal

10. Transit Indicator

    0 = Non - trancit
    I = Transit

11. Commodity   (STCC)

12. Number of cars

13. Tons

14. Submitting railroad dollars

15. Shortline miles (submitting railroad)

FIGURE 5

11
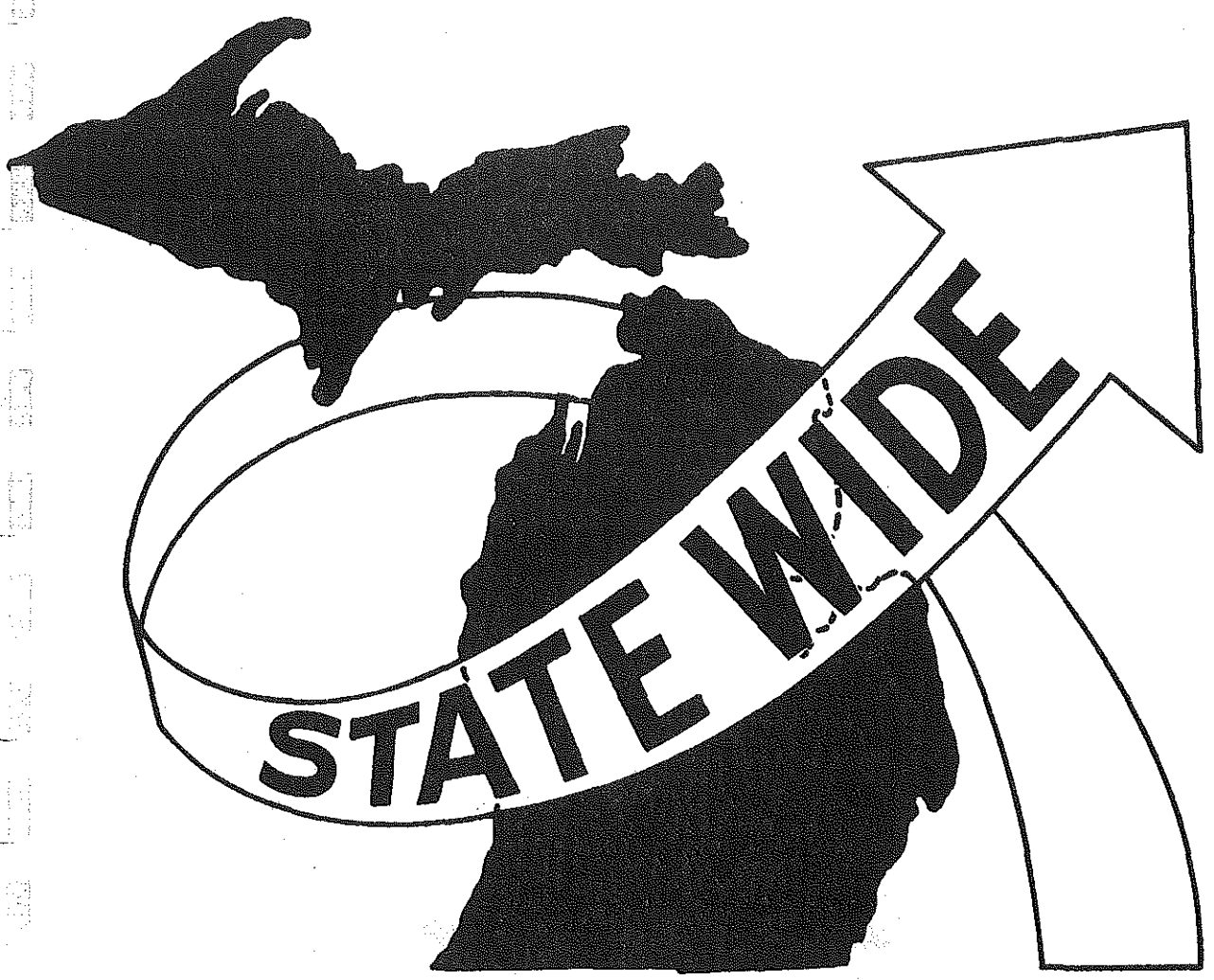
CONCLUSION

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
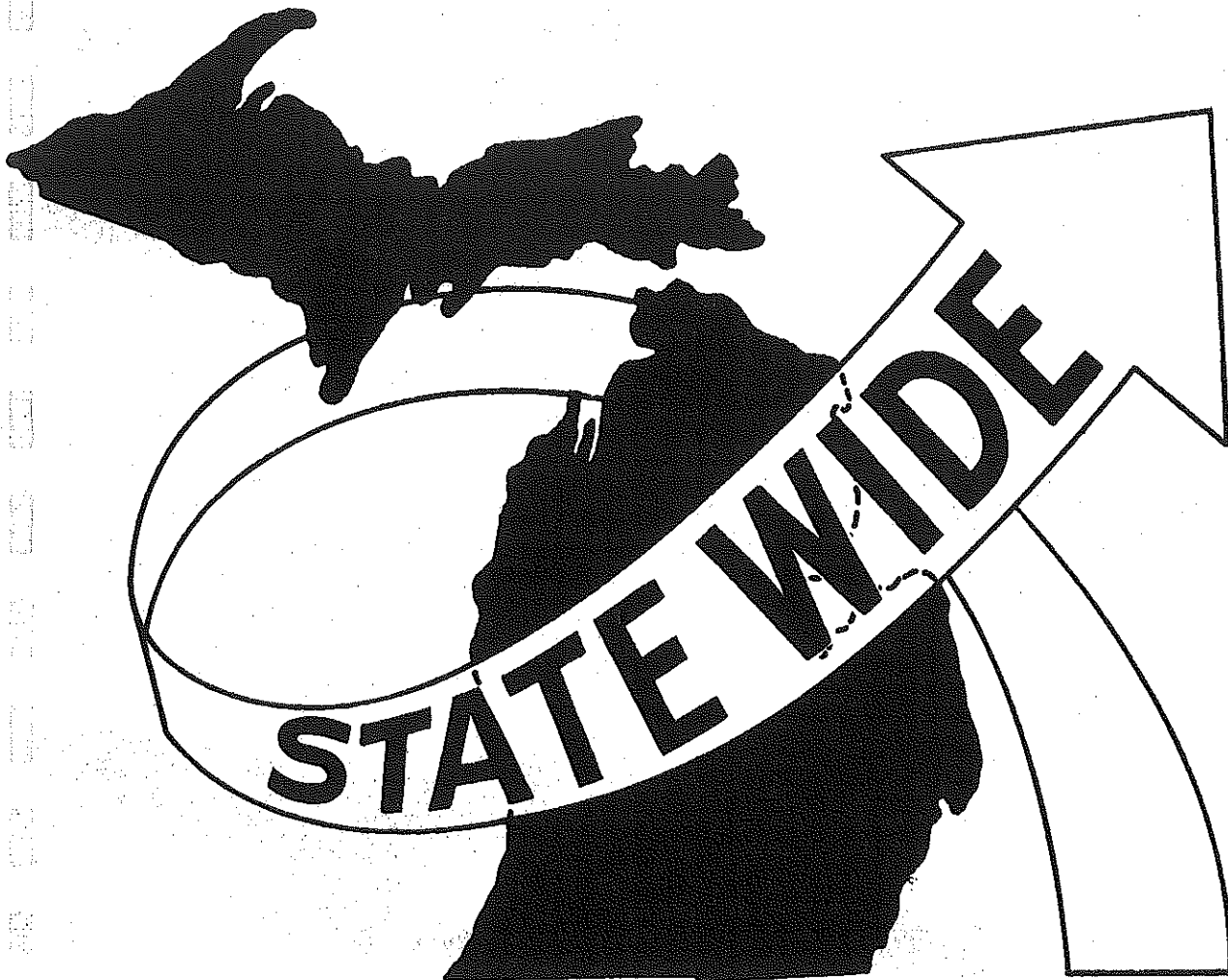
CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

PAGE NO.   1
DATE 10 OCT 75
TIME   09.12.19

ORIGIN ZONE   1   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   2   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   3   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	1	540
541	0	0	0	0	0	0	1				

ORIGIN ZONE   4   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   5   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   6   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   7   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   8   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   9   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   10   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   11   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   12   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   13   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   14   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   15   PURPOSE 1   0 TOTAL ORIG/PROD

COMMODITY FLOW MATRIX

ORIGIN ZONE 16   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 17   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 18   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 19   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 20   PURPOSE 1   362 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
321	0	0	0	0	0	362	0	0	0	0	330

ORIGIN ZONE 21   PURPOSE 1   1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
321	0	0	0	0	0	1	0	0	0	0	330

ORIGIN ZONE 22   PURPOSE 1   11 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
471	0	0	0	0	0	0	0	0	1	0	480
511	0	0	8	0	0	0	0	0	0	0	520
541	0	0	0	0	0	2	0				

ORIGIN ZONE 23   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 24   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 25   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 26   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 27   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 28   PURPOSE 1   0 TOTAL ORIG/PROD

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

PAGE NO.   3
DATE 10 OCT 75
TIME   09.12.19

ORIGIN ZONE   29   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   30   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   31   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   32   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   33   PURPOSE 1   2 TOTAL ORIG/PROD

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

ORIGIN ZONE   34   PURPOSE 1   43 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
161	0	0	0	0	0	0	0	0	1	0	170
201	0	0	0	0	0	0	0	0	0	1	210
291	0	0	0	0	0	0	0	0	1	0	300
521	0	1	0	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	1	540
541	1	2	2	13	6	11	3				

ORIGIN ZONE   35   PURPOSE 1   8 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
71	0	0	0	0	0	1	0	0	0	0	80
511	0	1	2	0	0	0	0	0	0	0	520
541	4	0	0	0	0	0	0				

ORIGIN ZONE   36   PURPOSE 1   14 TOTAL ORIG/PROD

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

ORIGIN ZONE   37   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   38   PURPOSE 1   0 TOTAL ORIG/PROD

CONTROL DATA 6600   MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM   PAGE NO.   4
TRANPLAN SYSTEM   ANN ARBOR RR 100 PERCENT WAYBILL   DATE 10 OCT 75
VERSION 3.0.7   CARLOADS OF FREIGHT SHIPPED   TIME 09.12.19

ORIGIN ZONE   39   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   40   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   41   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   42   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   43   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   44   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   45   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   46   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   47   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   48   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   49   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   50   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   51   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   52   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   53   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   54   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   55   PURPOSE 1   5 TOTAL ORIG/PROD

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

          541   0   0   0   1   3   0   1

ORIGIN ZONE   56   PURPOSE 1   0 TOTAL ORIG/PROD

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

ORIGIN ZONE   61   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   62   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   63   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   64   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   65   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   66   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   67   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   68   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   69   PURPOSE 1   0 TOTAL ORIG/PROD

CONTROL DATA 6600   MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM   PAGE NO. 6
TRANPLAN SYSTEM   ANN ARBOR RR 100 PERCENT WAYBILL   DATE 10 OCT 75
VERSION 3.0.7   CARLOADS OF FREIGHT SHIPPED   TIME 09.12.19

ORIGIN ZONE 70 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 71 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 72 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 73 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 74 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 75 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 76 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 77 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 78 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 79 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 80 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 81 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 82 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 83 PURPOSE 1   2 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

ORIGIN ZONE 84 PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   85   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   86   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   87   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   88   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   89   PURPOSE 1   7 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	1	0	0	0	0	0	60
361	0	0	2	0	0	0	0	0	0	0	370
531	0	0	0	0	0	0	4	0	0	0	540

ORIGIN ZONE   90   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   91   PURPOSE 1   38 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	38	540

ORIGIN ZONE   92   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   93   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   94   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   95   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   96   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   97   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   98   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE　99　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　100　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　101　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　102　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　103　　PURPOSE 1　　　　38 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	4	0	0	0	33	0				

ORIGIN ZONE　104　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　105　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　106　　PURPOSE 1　　　268 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
281	0	0	0	0	0	3	0	0	0	0	290
491	0	0	2	0	1	0	0	0	0	0	500
531	0	0	0	0	0	0	0	4	9	134	540
541	0	34	0	0	0	26	55				

ORIGIN ZONE　107　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　108　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　109　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　110　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　111　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

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ORIGIN ZONE 112   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 113   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 114   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 120   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 121   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 122   PURPOSE 1   1 TOTAL ORIG/PROD

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

ORIGIN ZONE 123   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 124   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 125   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 126   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 127   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 128   PURPOSE 1   15 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
481	0	0	0	0	0	0	1	0	0	0	490
531	0	0	0	0	0	0	6	0	0	0	540
541	0	0	0	0	0	8	0				

ORIGIN ZONE 129   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 130   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 131   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 132   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 133   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 134   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 135   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 136   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 137   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 138   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 139   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 140   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 147   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 148   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 149   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 150   PURPOSE 1   4 TOTAL ORIG/PROD

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

ORIGIN ZONE 151   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 152   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 153   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 154   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 155   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 156   PURPOSE 1   94 TOTAL ORIG/PROD

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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
				-CONTINUED-							
81	0	0	0	0	0	0	0	0	1	0	90
201	0	0	0	0	0	0	0	0	0	1	210
491	0	0	3	0	0	0	0	0	0	0	500
521	0	0	0	0	0	1	1	0	0	0	530
531	0	0	0	0	0	0	0	0	24	0	540
541	18	0	0	0	0	45	0				

ORIGIN ZONE 157   PURPOSE 1   91 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
531	0	0	0	0	0	3	2	0	0	1	540
541	1	0	1	11	0	27	39				

ORIGIN ZONE 158   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 159   PURPOSE 1   205 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	1	0	0	130
181	0	0	2	0	0	0	0	0	0	0	190
351	0	0	0	0	0	0	0	2	0	0	360
361	0	0	17	4	0	0	0	0	0	0	370
481	0	0	0	2	0	0	0	0	0	0	490
491	0	0	26	0	4	0	59	0	1	0	500
501	2	1	0	0	0	0	0	0	0	0	510
521	0	0	3	0	1	0	1	1	0	0	530
531	0	1	0	0	0	0	0	0	18	29	540
541	1	3	5	0	0	19	2				

ORIGIN ZONE 160   PURPOSE 1   299 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	3	0	0	7	0	0	0	500
511	0	4	1	0	0	0	0	0	0	0	520
521	0	0	1	4	20	0	2	11	0	0	530
531	0	0	0	0	0	8	1	0	5	5	540
541	2	1	4	23	2	56	137				

ORIGIN ZONE 161   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 162   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 163   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 164   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 165   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 166   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 167   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 168   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 169   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 170   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 171   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 172   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 173   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 174   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 175   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 176   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 177   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 178   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 179   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 180   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 181   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 182   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 183   PURPOSE 1   26 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
211	6	0	0	0	0	0	0	0	0	0	220
381	0	0	0	0	0	0	0	0	4	0	390
501	0	0	0	0	16	0	0	0	0	0	510

ORIGIN ZONE 184   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 185   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 186   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 187   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 188   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 189   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 190   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 191   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 192   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 193   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 194   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 199   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 200   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 201   PURPOSE 1   223 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
321	0	0	0	0	0	223	0	0	0	0	330

ORIGIN ZONE 202   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 203   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 204   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 205   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 206   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 207   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 208   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 209   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 210   PURPOSE 1   46 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	0	7	0	5	0	0	0	500
511	0	0	1	0	0	0	0	0	0	0	520
521	0	0	1	0	4	0	5	2	0	0	530
541	0	0	0	0	0	1	20				

ORIGIN ZONE 211   PURPOSE 1   167 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	40	0	0	0	0	0	60
401	0	0	0	0	0	0	0	0	1	0	410
531	0	0	0	0	0	0	0	0	0	3	540
541	1	0	0	0	0	9	113				

ORIGIN ZONE 212   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 213   PURPOSE 1   5 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	1	0	0	160
171	0	0	0	0	0	0	0	2	0	0	180
411	0	0	0	0	0	1	0	0	0	0	420
461	0	0	0	0	0	0	0	0	0	1	470

ORIGIN ZONE 214   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 215   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 216   PURPOSE 1   2 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
201	0	0	0	0	0	0	0	0	0	1	210
491	0	1	0	0	0	0	0	0	0	0	500

ORIGIN ZONE   217   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   218   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   219   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   220   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   221   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   222   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   223   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   224   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   225   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   226   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   227   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   228   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   229   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   230   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   231   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE   232   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 233   PURPOSE 1   4 TOTAL ORIG/PROD

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

ORIGIN ZONE 234   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 235   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 236   PURPOSE 1   1 TOTAL ORIG/PROD

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

ORIGIN ZONE 237   PURPOSE 1   15 TOTAL ORIG/PROD

    TO ZONE   -1-   -2-   -3-   -4-   -5-   -6-   -7-   -8-   -9-   -0-   TO ZONE
       521   0   14   0   0   0   0   0   0   0   0   530
       541   0   0   0   1   0   0   0

ORIGIN ZONE 238   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 239   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 240   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 241   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 242   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 243   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 244   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 245   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 246   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 247   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 248   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 253   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 254   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 259   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 260   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 261   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 262   PURPOSE 1   12 TOTAL ORIG/PROD

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

ORIGIN ZONE 263   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 264   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 265   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 266   PURPOSE 1   215 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
181	0	0	215	0	0	0	0	0	0	0	190

ORIGIN ZONE 267   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 268   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 269   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 270   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 271   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
531	0	0	0	0	0	C	2	0	0	3	540
541	0	4	0	0	0	0	3				

ORIGIN ZONE 272   PURPOSE 1   71 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
531	0	0	0	0	0	0	5	0	0	1	540
541	0	0	0	0	0	8	56				

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ORIGIN ZONE 273   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 278   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 279   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 280   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 281   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 282   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 283   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 284   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 285   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 286   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 287   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 288   PURPOSE 1   4 TOTAL ORIG/PROD

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

-CONTINUED-
```
            541           0           0           0           0           4           0           0

ORIGIN ZONE  289     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  290     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  291     PURPOSE  1              4 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
521	0	3	0	0	0	0	0	0	0	0	530

```
ORIGIN ZONE  292     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  293     PURPOSE  1             92 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	12	73	3	3	0	0				

```
ORIGIN ZONE  294     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  295     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  296     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  297     PURPOSE  1              1 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

```
ORIGIN ZONE  298     PURPOSE  1              0 TOTAL ORIG/PROD


ORIGIN ZONE  299     PURPOSE  1              4 TOTAL ORIG/PROD
```

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

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| 511 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 520 |

ORIGIN ZONE 300   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 301   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 302   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 303   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 304   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 305   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 306   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 307   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 308   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 309   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 310   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 311   PURPOSE 1   2 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
451	0	1	0	0	0	0	0	0	0	0	460
511	0	0	1	0	0	0	0	0	0	0	520

ORIGIN ZONE 312   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 313   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 314   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 315   PURPOSE 1   258 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
101	0	0	4	0	0	0	0	0	0	0	110
291	0	0	0	0	1	0	0	0	1	0	300
431	0	0	37	0	0	0	0	0	0	0	440
511	0	0	0	0	0	0	0	0	1	0	520
521	113	46	0	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	55	540

ORIGIN ZONE 316   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 317   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 318   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 319   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 320   PURPOSE 1   5 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	0	0	1	340
501	0	0	0	0	0	0	0	1	0	0	510
541	0	2	0	1	0	0	0				

ORIGIN ZONE 321   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 322   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 323   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	1	0	0				

ORIGIN ZONE 324   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 325   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 326   PURPOSE 1   7206 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	9	0	160
521	0	0	0	0	233	1	0	1687	0	0	530
531	0	0	0	361	0	18	29	6	853	926	540
541	432	2321	33	59	5	68	165				

ORIGIN ZONE 327   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 328   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 329   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 330   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	1	0	0				

ORIGIN ZONE 331   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 332   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 333   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 334   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 335   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 336   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 337   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 338   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	3	540
541	0	0	0	0	0	1	0				

ORIGIN ZONE 339   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 340   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 341   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 342   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 343   PURPOSE 1   0 TOTAL ORIG/PROD

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 351   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 352   PURPOSE 1   0 TOTAL ORIG/PROD

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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   0 TOTAL ORIG/PROD

ORIGIN ZONE 357   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 358   PURPOSE 1   3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	3	0	160

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
271	1	0	0	0	0	0	0	0	0	0	280

ORIGIN ZONE 361   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 362   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 363   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	2	0	0	0	540

ORIGIN ZONE 364   PURPOSE 1   3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	2	0	160
481	0	0	0	0	0	0	1	0	0	0	490

    ORIGIN ZONE 365   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 366   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 367   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 368   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 369   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 370   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 371   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 372   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 373   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 374   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 375   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 376   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 377   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 378   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 379   PURPOSE 1   0 TOTAL ORIG/PROD

    ORIGIN ZONE 380   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 381   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 382   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 383   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 384   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 385   PURPOSE 1   0   RIG/PROD

ORIGIN ZONE 386   PURPOSE 1   110   RIG/PROD

TO ZONE	-1-	-2-	-3-		-5-		-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	0	0	1	0	0	70
491	0	0	0	3	12	0	0		0	0	500
541	0	0	0	0	0	0	58				

ORIGIN ZONE 387   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 388   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 389   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 390   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 391   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 392   PURPOSE 1   105 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
521	0	87	0	0	0	0	0	0	0	0	530
541	0	0	0	0	18	0	0				

ORIGIN ZONE 393   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 394   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 395   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 396   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 397   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 398   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 399   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 400   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 401   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 402   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 403   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 404   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 405   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 406   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 407   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 408   PURPOSE 1   0 TOTAL ORIG/PROD

        ORIGIN ZONE 409   PURPOSE 1   10 TOTAL ORIG/PROD

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

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| 91 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 100 |
| 271 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 280 |

ORIGIN ZONE 410   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 411   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 412   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 413   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 414   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 415   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 416   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 417   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 418   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 419   PURPOSE 1   1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
311	0	0	0	0	0	0	0	0	0	1	320

ORIGIN ZONE 420   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 421   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 422   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 423   PURPOSE 1   0 TOTAL ORIG/PROD

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ORIGIN ZONE 424   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 425   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 426   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 427   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 428   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 429   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 430   PURPOSE 1   1 TOTAL ORIG/PROD

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

ORIGIN ZONE 431   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 432   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 433   PURPOSE 1   1132 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
61	0	0	0	0	0	22	0	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	1	1	0	0	0	240
311	0	0	0	0	2	0	0	0	0	0	320
351	0	0	0	0	0	0	0	1	0	0	360
381	0	0	0	0	0	0	0	1	0	0	390
401	0	0	0	0	0	0	0	0	18	0	410
491	0	0	20	1	245	0	1	0	7	0	500
511	0	167	1	0	0	0	0	0	0	0	520
521	0	0	203	0	78	2	0	3	0	0	530
531	0	1	0	3	0	0	0	0	4	10	540
541	24	29	58	13	2	185	5				

ORIGIN ZONE 434   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 435   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 436   PURPOSE 1   57 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
531	0	0	11	0	0	0	0	0	0	0	540
541	4	0	0	0	0	13	29				

ORIGIN ZONE 437   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	1	0	0	0	540
541	1	0	0	0	0	0	0				

ORIGIN ZONE 438   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 439   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 440   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 441   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 442   PURPOSE 1   106 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
201	0	0	0	0	0	0	0	0	0	1	210
311	0	0	1	0	0	0	0	0	0	0	320
431	0	0	2	0	0	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	1	0	480
521	19	76	1	0	0	0	0	0	0	0	530
541	0	0	0	0	5	0	0				

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   0 TOTAL ORIG/PROD

ORIGIN ZONE 447   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 448   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 449   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 450   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 451   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 452   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 453   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 454   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 455   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 456   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 457   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 458   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 459   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 460   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE　461　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　462　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　463　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　464　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　465　　　PURPOSE　1　　　　12 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-		-5-		-7-	-8-	-9-	-0-	TO ZONE
311	0	0	0	0	0	0	0	0	0	12	320

ORIGIN ZONE　466　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　467　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　468　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　469　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　470　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　471　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　472　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　473　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　474　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　475　　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE 476   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 477   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 478   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 479   PURPOSE 1   340 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
471	0	0	0	0	0	0	0	0	1	0	480
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	1	0	234	0	2	0	0	0	530
531	0	0	0	0	0	0	0	0	2	0	540
541	5	1	60	1	0	13	17				

ORIGIN ZONE 480   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 481   PURPOSE 1   1 TOTAL ORIG/PROD

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

ORIGIN ZONE 482   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 483   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 484   PURPOSE 1   3 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	3	0	160

ORIGIN ZONE 485   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 486   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	1	1	0				

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ORIGIN ZONE 487   PURPOSE 1   3280 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	1	0	0	130
361	0	0	0	397	0	0	0	0	0	0	370
491	0	0	0	1	0	1	0	0	0	0	500
501	245	0	0	0	0	0	0	0	0	0	510
511	0	373	0	0	0	0	0	0	0	0	520
521	0	1	0	0	50	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	363	0	540
541	89	625	330	291	136	377	0				

ORIGIN ZONE 488   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 489   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 490   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 491   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 492   PURPOSE 1   1098 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	162	0	0	130
181	0	0	7	0	0	0	0	0	0	0	190
231	0	0	0	0	0	1	0	0	0	0	240
491	0	0	3	0	248	0	0	0	0	0	500
501	14	0	0	0	0	0	0	0	0	0	510
521	0	0	3	0	59	0	4	0	0	0	530
531	0	0	0	0	0	0	0	0	2	0	540
541	43	115	326	18	18	75	0				

ORIGIN ZONE 493   PURPOSE 1   82 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	4	0	160
491	0	2	0	0	0	0	0	0	0	0	500
501	0	0	0	0	3	0	0	0	0	0	510
511	0	0	0	0	0	0	0	0	10	0	520
521	0	40	0	0	0	0	0	0	0	0	530
541	18	2	0	0	3	0	0				

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TIME 09.12.19

ORIGIN ZONE 494   PURPOSE 1   433 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	1	0	160
521	0	0	49	0	0	27	0	0	0	0	530
541	0	0	0	1	355	0	0				

ORIGIN ZONE 495   PURPOSE 1   43 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
101	0	0	2	0	0	0	0	0	0	0	110
151	0	0	0	0	0	0	0	0	8	1	160
431	0	0	1	0	0	0	0	0	0	0	440
491	0	4	0	0	0	0	0	0	0	0	500
501	0	0	0	0	7	0	0	0	0	0	510
521	0	3	2	0	0	0	0	0	0	0	530
541	0	0	0	9	6	0	0				

ORIGIN ZONE 496   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 497   PURPOSE 1   1390 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
101	0	0	4	0	0	0	0	0	0	0	110
151	0	0	0	0	0	1	0	0	1	0	160
221	0	0	0	0	0	130	0	0	0	0	230
231	0	0	0	0	0	92	0	0	0	0	240
291	3	0	0	0	0	0	0	0	0	0	300
311	2	0	0	0	0	0	0	0	0	0	320
471	0	0	0	0	0	0	0	0	2	0	480
491	0	25	0	0	0	0	0	0	0	0	500
511	5	0	0	0	0	0	0	0	96	1	520
521	133	49	311	13	0	0	0	0	0	0	530
541	0	0	0	159	363	0	0				

ORIGIN ZONE 498   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 499   PURPOSE 1   684 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	1	0	0	130
151	0	0	0	0	0	0	0	0	28	0	160
181	0	0	11	0	0	0	0	0	0	0	190

-CONTINUED-

	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
321	0	0	0	0	0	261	0	0	0	0	330
431	0	0	9	0	0	0	0	0	0	0	440
511	1	0	0	0	0	0	0	0	0	0	520
521	0	0	294	0	75	0	0	0	0	0	530
541	0	0	0	0	4	0	0				

ORIGIN ZONE 500   PURPOSE 1   5 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
481	0	0	0	5	0	0	0	0	0	0	490

ORIGIN ZONE 501   PURPOSE 1   7 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
481	0	0	0	0	0	0	6	0	0	0	490
521	0	1	0	0	0	0	0	0	0	0	530

ORIGIN ZONE 502   PURPOSE 1   1 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	1	0	160

ORIGIN ZONE 503   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 504   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 505   PURPOSE 1   316 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
491	0	0	0	0	110	0	0	0	2	0	500
521	1	0	0	1	2	0	0	0	0	0	530
531	0	0	0	0	0	0	0	1	122	7	540
541	2	13	33	6	8	5	3				

ORIGIN ZONE 506   PURPOSE 1   6 TOTAL ORIG/PROD

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

ORIGIN ZONE　507　　PURPOSE　1　　　　1363 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	43	0	500
531	0	0	0	0	0	0	0	0	1268	6	540
541	0	9	31	3	3	0	0				

ORIGIN ZONE　508　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　509　　PURPOSE　1　　　　　94 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	3	0	0	0	0	160
271	12	0	0	0	0	0	0	0	0	0	280
431	0	0	0	0	4	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	20	0	480
481	2	0	0	0	0	4	0	0	0	0	490
501	0	0	0	0	1	0	0	0	0	0	510
521	0	0	37	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	3	7	540
541	0	0	0	0	1	0	0				

ORIGIN ZONE　510　　PURPOSE　1　　　　　28 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	0	1	160
201	0	0	0	0	0	0	0	0	0	3	210
211	11	0	1	0	0	0	0	0	0	0	220
311	0	0	0	0	0	0	0	0	0	2	320
521	2	8	0	0	0	0	0	0	0	0	530

ORIGIN ZONE　511　　PURPOSE　1　　　　249 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	1	0	0	0	0	160
361	14	0	0	0	0	0	0	0	0	0	370
491	0	0	0	0	1	0	2	0	0	0	500
531	0	0	0	0	0	0	54	7	13	15	540
541	1	117	0	0	0	24	0				

ORIGIN ZONE　512　　PURPOSE　1　　　　110 TOTAL ORIG/PROD

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

-CONTINUED-

151	0	0	0	0	0	0	0	0	0	1	160
201	0	0	0	0	0	0	0	0	0	2	210
211	2	0	0	0	0	0	0	0	0	0	220
381	0	0	0	0	0	8	0	0	0	0	390
431	0	0	23	0	0	0	0	0	0	0	440
481	0	0	0	0	0	0	51	0	0	0	490
521	0	7	0	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	2	540
541	0	0	0	1	13	0	0				

ORIGIN ZONE　513　　PURPOSE　1　　　　　555 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-		-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0		0		1	0	160
201	0	0	0	0	0		0		0	2	210
271	1	0	0	0	0		0		0	0	280
321	0	0	0	1	0		0		0	0	330
331	0	0	0	0	0		0		0	0	340
411	0	0	0	0	0		0		0	1	420
431	0	0	21	0	0		0		0	0	440
471	0	0	0	0	0		0		9	0	480
511	0	0	0	0	0		0		0	1	520
521	12	204	0	0	3		1		0	0	530
531	0	0	0	12	0		97		0	43	540
541	0	11	2	1	126		0				

ORIGIN ZONE　514　　PURPOSE　1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE　515　　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　516　　PURPOSE　1　　　　　37 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	32	0	0	0	0	0	60
531	0	0	0	0	0	0	0	0	0	2	540
541	0	0	0	0	0	1	2				

ORIGIN ZONE　517　　PURPOSE　1　　　　　15 TOTAL ORIG/PROD

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

-CONTINUED-

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
541	0	0	0	0	0	14	0				

ORIGIN ZONE 518　　PURPOSE 1　　　　　0 TOTAL ORIG/PROD

ORIGIN ZONE 519　　PURPOSE 1　　　　257 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
221	0	0	0	0	0	1	0	0	0	0	230
231	0	0	0	0	0	4	0	0	0	0	240
471	0	0	0	0	0	0	0	0	8	0	480
491	0	0	12	4	0	0	0	0	0	0	500
511	0	0	5	0	0	0	0	0	0	0	520
531	3	0	4	0	0	0	0	0	8	97	540
541	4	65	0	0	0	19	22				

ORIGIN ZONE 520　　PURPOSE 1　　　　496 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
281	0	0	0	2	0	0	147	102	0	0	290
321	0	0	0	0	0	4	0	0	0	0	330
411	0	0	0	0	0	0	0	0	0	1	420
441	0	63	0	0	0	0	0	0	0	0	450
531	0	0	0	0	0	101	0	36	1	3	540
541	0	0	0	0	0	25	11				

ORIGIN ZONE 521　　PURPOSE 1　　　2285 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
41	0	0	0	0	2	0	0	1	0	0	50
51	0	0	0	0	7	0	0	0	0	0	60
61	0	0	0	0	0	0	0	0	2	0	70
161	7	0	0	0	0	0	0	0	0	0	170
181	0	0	25	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	2	210
231	0	0	0	0	0	1	0	0	0	0	240
261	0	58	0	0	0	0	0	0	0	0	270
271	0	0	0	0	2	0	0	0	0	0	280
281	0	0	0	0	1	2	0	0	0	0	290
351	0	0	0	0	0	0	0	8	0	0	360
441	0	8	0	0	0	0	0	0	0	0	450
471	0	0	0	0	0	0	0	0	2	0	480

-CONTINUED-

	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
491	0	0	101	0	78	0	0	0	0	0	500
501	0	0	0	0	0	0	0	0	1	0	510
511	0	6	38	0	0	0	0	0	0	0	520
521	0	0	0	0	0	0	0	0	0	1	530
531	4	5	8	17	0	76	10	25	148	349	540
541	77	65	0	0	0	525	623				

ORIGIN ZONE 522   PURPOSE 1   5595 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	1	0	30
31	0	0	0	1	0	0	0	0	0	0	40
41	0	0	0	0	0	0	0	1	0	0	50
51	0	0	0	0	20	0	0	0	0	0	60
71	0	0	0	0	0	0	0	3	0	0	80
91	0	0	0	0	0	0	0	0	1	0	100
121	0	4	0	4	0	0	0	39	0	0	130
181	0	0	25	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	33	0	0	0	0	230
231	0	0	0	0	0	26	100	0	0	0	240
241	1	0	0	0	0	0	0	0	0	0	250
281	0	0	0	14	49	8	0	0	0	0	290
301	0	0	0	0	0	10	0	0	0	0	310
311	0	0	0	0	1	0	0	0	0	0	320
321	0	0	0	0	0	3	0	0	0	0	330
341	0	9	0	0	0	0	0	0	0	0	350
361	0	0	0	0	0	0	0	0	15	0	370
391	0	106	0	0	0	0	0	0	0	0	400
401	0	0	0	0	0	0	0	3	31	0	410
431	0	0	7	0	0	1	0	0	0	0	440
441	0	2	0	0	0	0	0	0	0	0	450
461	0	0	0	0	0	0	0	0	55	0	470
471	0	0	0	0	0	0	0	0	3	0	480
481	0	0	4	0	0	0	0	0	0	0	490
491	0	0	185	4	405	0	7	1	38	0	500
501	0	3	0	0	8	0	0	0	0	0	510
511	0	4	21	0	0	0	0	0	0	0	520
521	0	0	0	0	0	0	0	1	0	0	530
531	4	28	16	83	11	11	138	535	404	731	540
541	141	86	0	0	0	1002	1133				

ORIGIN ZONE 523   PURPOSE 1   323 TOTAL ORIG/PROD

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

-CONTINUED-

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	2	0	0	0	0	0	0	40
41	0	0	0	0	1	0	0	0	0	0	50
221	0	0	0	0	0	0	0	0	0	4	230
261	0	5	0	0	0	0	0	0	0	0	270
271	0	2	0	0	0	0	0	0	0	0	280
321	0	0	0	0	0	1	0	0	0	0	330
431	0	0	34	0	0	0	0	0	0	0	440
491	0	0	0	3	0	0	5	0	0	0	500
501	0	0	0	0	23	0	0	0	0	0	510
511	0	0	33	0	0	0	0		0	0	520
531	0	0	0	0	0	0	73		8	44	540
541	1	0	0	0	0	45	35				

ORIGIN ZONE 524   PURPOSE 1   11 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
281	0	0	0	0	1	0	0		0	0	290
341	0	1	0	0	0	0	0		0	0	350
461	0	0	0	0	0	0	0		1	0	470
471	0	0	0	0	0	0	0		1	0	480
531	0	0	0	0	0	0	0		1	0	540
541	0	0	0	0	0	2	3				

ORIGIN ZONE 525   PURPOSE 1   275 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	3	3	2	0	0	0	0	40
81	0	0	0	0	0	0	0	0	2	0	90
91	1	0	0	0	0	1	0	0	0	0	100
151	0	0	0	0	0	1	0	0	0	2	160
201	0	0	0	0	0	0	0	0	0	11	210
271	0	12	0	0	0	0	0	0	0	0	280
311	0	0	0	0	0	0	0	0	0	4	320
381	0	0	0	0	0	0	0	0	2	0	390
431	0	0	5	0	3	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	7	0	480
481	0	0	13	33	0	0	35	0	0	0	490
491	0	0	0	0	8	0	0	0	0	0	500
501	0	0	0	0	111	0	0	0	0	0	510
511	0	0	8	0	0	0	0	0	0	0	520
531	0	0	0	0	0	0	8	0	0	0	540

ORIGIN ZONE 526   PURPOSE 1   100 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
				-CONTINUED-							
91	0	0	0	0	0	9	0	0	0	0	100
151	0	0	0	0	0	0	0	0	0	4	160
201	0	0	0	0	0	0	0	0	0	25	210
211	4	0	0	0	0	0	0	0	0	0	220
271	0	5	0	0	0	0	0	0	0	0	280
281	0	0	0	0	0	0	0	0	1	0	290
311	0	0	0	0	0	0	0	0	0	12	320
321	0	0	0	0	0	18	0	0	0	0	330
431	0	0	2	0	0	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	8	0	480
481	0	0	0	0	0	0	2	0	0	0	490
491	0	0	0	0	0	0	0	5	0	1	500
501	0	0	0	0	2	0	0	0	0	0	510
541	0	0	0	0	0	0	2				

ORIGIN ZONE 527   PURPOSE 1   26 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	1	0	0	0	0	0	0	40
71	0	0	0	0	0	0	0	1	0	0	80
151	0	0	0	0	0	0	0	0	0	1	160
201	0	0	0	0	0	0	0	0	0	15	210
321	0	0	0	0	0	1	0	0	0	0	330
491	0	0	0	0	7	0	0	0	0	0	500

ORIGIN ZONE 528   PURPOSE 1   21 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	1	0	0	0	0	0	0	40
151	0	0	0	0	0	0	0	0	2	0	160
181	0	0	2	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	5	210
211	0	0	1	0	0	0	0	0	0	0	220
311	0	0	0	0	0	0	0	0	0	1	320
431	0	0	4	0	0	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	4	0	480
531	0	0	0	0	0	0	1	0	0	0	540

ORIGIN ZONE 529   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 530   PURPOSE 1   0 TOTAL ORIG/PROD

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

PAGE NO. 46
DATE 10 OCT 75
TIME 09.12.19

ORIGIN ZONE 531   PURPOSE 1   8 TOTAL ORIG/PROD

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

ORIGIN ZONE 532   PURPOSE 1   31 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
151	0	0	0	0	0	0	0	0	1	16	160
201	0	0	0	0	0	0	0	0	0	9	210
531	0	0	0	0	0	0	5	0	0	0	540

ORIGIN ZONE 533   PURPOSE 1   21 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
201	0	0	0	0	0	0	0	0	0	5	210
211	1	0	0	0	0	0	0	0	0	0	220
271	0	2	0	0	0	0	0	0	0	0	280
471	0	0	0	0	0	0	0	0	4	0	480
501	0	0	0	0	4	0	0	0	0	0	510
531	0	0	0	0	0	0	4	0	0	0	540
541	0	0	0	1	0	0	0				

ORIGIN ZONE 534   PURPOSE 1   170 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	0	5	0	90
271	1	0	0	0	0	0	0	0	0	0	280
311	0	0	0	0	0	0	0	0	0	3	320
471	0	0	0	0	0	0	0	0	61	0	480
491	0	1	0	0	0	0	0	0	0	0	500
501	0	0	0	0	80	0	0	0	0	0	510
511	0	0	0	0	0	9	0	0	0	0	520
521	2	8	0	0	0	0	0	0	0	0	530

ORIGIN ZONE 535   PURPOSE 1   0 TOTAL ORIG/PROD

ORIGIN ZONE 536   PURPOSE 1   99 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
211	0	0	0	0	0	11	0	0	0	0	220
231	0	0	0	0	0	37	0	0	0	0	240
291	0	0	0	0	0	0	0	0	3	0	300

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	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
461	0	0	0	0	0	0	0	0	5	0	470
521	3	4	0	0	0	0	0	0	0	0	530
541	0	0	6	24	6	0	0				

ORIGIN ZONE 537   PURPOSE 1   2929 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	5	0	0	0	0	0	0	0	0	0	60
121	0	0	0	0	0	0	0	344	0	0	130
151	0	0	0	0	0	0	0	0	3	0	160
211	1	0	0	0	0	0	0	0	0	0	220
231	0	0	0	0	0	21	0		0	0	240
281	0	0	0	0	0	0	0		0	1	290
321	0	0	1	0	0	0	0		0	0	330
351	0	0	0	0	0		0	1	0	0	360
431	0	0	2	0	0		0		0	0	440
481	0	0	0	9	0		0		0	0	490
491	0	22	0	0	0	0	0	0	0	0	500
511	0	0	61	0	0	0	0	0	0	0	520
521	9	3	51	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	0	0	0	11	540
541	242	715	281	424	434	256	22				

ORIGIN ZONE 538   PURPOSE 1   313 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
51	0	0	0	0	7	0	0	0	0	0	60
81	0	0	0	0	0	0	0	0	1	0	90
91	0	0	0	0	0	2	0	0	0	0	100
131	0	0	0	4	0	0	0	0	6	0	140
151	0	0	0	0	0	16	0	0	8	1	160
181	0	0	2	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	3	210
211	1	0	10	0	0	0	0	0	0	0	220
281	0	0	0	0	0	0	0	0	5	0	290
321	0	0	0	0	0	53	0	0	0	0	330
331	0	0	0	0	0	1	0	1	0	0	340
361	0	0	0	0	0	0	0	0	4	0	370
381	0	0	0	0	0	0	0	0	5	0	390
391	0	0	0	0	0	0	0	0	1	0	400
431	0	0	3	0	0	0	0	0	0	0	440
441	0	2	0	0	0	0	0	0	0	0	450
461	0	0	0	0	0	2	0	0	0	0	470
471	0	0	0	0	0	0	0	0	1	0	480
481	0	0	0	0	0	16	0	0	0	0	490

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	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
511	0	0	0	0	0	0	0	0	1	0	520
521	1	10	63	0	2	0	0	0	0	0	530
531	0	0	0	0	0	0	1	0	0	0	540
541	0	0	0	40	40	0	0				

ORIGIN ZONE 539　　PURPOSE 1　　　　8360 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	1	0	0	0	0	0	0	0	10
21	0	0	0	0	0	0	0	0	202	0	30
51	0	0	0	0	4	0	0	0	0	0	60
101	0	0	11	0	0	0	0	0	5	0	110
151	0	0	0	0	0	0	0	0	8	1	160
171	1	0	0	0	0	0	0	0	0	0	180
201	0	0	0	0	0	0	0	0	0	12	210
211	0	0	2	0	0	1	0	0	0	0	220
291	0	0	0	0	0	0	0	0	2	0	300
311	0	0	0	0	7865	0	0	0	0	0	320
331	0	0	0	0	0	2	0	0	0	0	340
431	0	0	18	0	0	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	12	0	480
481	0	0	0	0	0	0	20	0	0	0	490
491	0	0	0	0	1	0	0	0	0	0	500
501	0	0	0	0	9	0	0	0	0	0	510
521	5	60	0	0	0	0	0	0	0	0	530
531	0	0	0	0	0	0	6	0	0	0	540
541	0	0	1	69	42	0	0				

ORIGIN ZONE 540　　PURPOSE 1　　　13898 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	12301	0	30
81	0	0	0	0	0	0	0	0	4	0	90
101	0	0	4	0	0	0	0	0	2	0	110
111	0	0	74	0	0	0	0	0	0	0	120
121	0	0	0	0	0	0	0	4	0	0	130
151	6	0	0	0	0	19	0	0	2	0	160
181	0	0	162	0	0	0	0	0	0	0	190
201	0	0	0	2	0	0	0	0	0	1	210
211	0	0	5	0	0	0	0	0	0	0	220
271	119	0	0	0	0	0	2	0	0	0	280
281	0	0	0	2	0	0	0	0	0	0	290
291	6	0	0	0	0	0	0	0	6	0	300
321	0	0	0	1	0	267	0	0	0	0	330
331	0	0	0	0	0	1	0	0	0	0	340

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TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
341	0	1	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	1	0	0	360
421	0	0	0	0	0	0	0	0	0	2	430
431	0	0	86	0	0	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	31	0	480
481	0	0	0	0	0	1	155	0	0	0	490
491	0	2	0	0	6	0	0	0	0	0	500
501	0	0	0	0	7	0	0	0	0	0	510
511	3	1	0	0	0	0	0	0	0	0	520
521	57	74	42	0	0	0	0	0	0	0	530
541	0	0	0	73	366	0	0				

ORIGIN ZONE 541   PURPOSE 1   444 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	1	0	0	0	0	0	0	40
101	0	0	7	0	0	0	0	0	6	0	110
121	0	0	0	0	0	0	0	2	0	0	130
131	0	0	0	0	0	0	0	0	0	4	140
151	0	0	0	0	0	11	0	0	27	0	160
201	0	0	0	0	1	0	0	0	0	0	210
221	0	0	0	0	0	1	0	0	0	0	230
271	3	0	0	0	0	0	0	0	0	0	280
281	0	0	0	0	0	0	0	0	1	0	290
321	0	0	0	7	0	0	0	0	0	0	330
331	0	0	0	0	0	0	0	2	0	0	340
431	0	0	2	0	3	1	0	0	0	0	440
471	0	0	0	0	0	0	0	0	22	0	480
481	0	0	0	0	0	6	23	0	0	0	490
491	0	57	0	0	0	0	0	0	0	0	500
501	0	0	0	0	69	0	0	0	0	0	510
521	19	116	1	0	0	0	0	1	0	0	530
531	0	0	0	0	0	0	12	0	0	0	540
541	0	0	0	0	39	0	0				

ORIGIN ZONE 542   PURPOSE 1   4517 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
1	0	0	1	0	0	0	0	0	0	0	10
21	0	20	0	0	0	0	0	0	0	0	30
31	0	0	0	2	0	0	0	0	0	0	40
51	0	0	0	0	118	0	0	0	0	0	60
81	0	0	0	0	0	0	0	0	6	0	90
91	2	0	0	0	0	0	0	0	0	0	100
101	0	0	15	0	0	159	0	0	7	0	110

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FROM	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
111	0	0	0	0	0	3	0	0	0	0	120
121	0	0	0	0	0	0	0	398	0	0	130
131	0	0	0	1	0	0	0	0	0	1	140
151	0	0	0	0	0	11	0	0	5	12	160
171	0	0	0	0	0	0	0	2	0	0	180
181	0	0	2	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	6	210
211	0	0	12	0	0	3	0	0	0	0	220
221	0	0	0	0	0	10	0	0	0	0	230
251	0	2	0	0	0	0	0	0	0	0	260
271	11	0	0	0	0	0	0	0	0	0	280
291	0	0	0	0	0	0	0	0	6	0	300
311	2	0	0	0	0	0	0	0	0	18	320
321	0	0	0	4	0	2525	0	0	0	0	330
331	0	0	0	0	0	1	0	0	0	0	340
351	0	0	0	0	0	0	0	0	0	0	360
381	0	0	0	0	0	0	0	0	3	0	390
401	0	0	0	0	0	0	0	0	1	0	410
431	0	0	48	0	0	0	9	0	0	0	440
441	0	6	0	0	0	0	0	0	0	0	450
461	0	0	0	0	0	0	0	0	0	1	470
471	0	0	0	0	0	0	0	0	169	0	480
481	1	0	0	0	0	6	35	0	0	0	490
501	0	0	0	0	34	0	2	0	0	0	510
511	45	0	0	0	0	0	0	0	75	0	520
521	232	202	9	1	0	0	0	1	0	0	530
531	0	0	0	0	0	0	24	0	0	0	540
541	0	0	0	0	246	1	0				

ORIGIN ZONE   543   PURPOSE 1   600 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
31	0	0	0	40	0	0	0	0	0	0	40
81	0	0	0	0	0	0	0	0	2	0	90
91	2	0	0	0	0	0	0	0	0	0	100
121	0	0	0	0	0	0	0	1	0	0	130
151	0	0	0	0	0	8	0	0	1	7	160
201	0	0	0	0	0	0	0	0	0	6	210
211	0	0	2	0	0	0	0	0	0	0	220
261	0	1	0	0	0	0	0	0	0	0	270
271	36	1	0	0	0	0	0	0	0	0	280
311	0	0	0	0	0	0	0	0	0	6	320
321	0	0	0	0	0	44	0	0	0	0	330
391	0	0	0	0	1	0	0	0	0	0	400
431	0	0	123	0	52	15	0	0	0	0	440

-CONTINUED-

FROM	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
471	0	0	0	0	0	0	0	0	100	0	480
481	3	0	0	0	0	0	60	0	0	0	490
491	0	4	0	0	0	0	0	0	0	0	500
501	0	0	0	0	68	0	0	0	0	0	510
531	0	0	0	0	0	0	15	0	0	0	540
541	0	0	0	0	0	1	0				

ORIGIN ZONE　544　　　PURPOSE　1　　　　2779 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
11	0	0	0	1	0	0	0	1	0	0	20
21	1	0	0	0	0	1	0	0	2	0	30
31	0	0	0	33	4	3	0	0	0	0	40
61	0	0	0	0	0	0	1	0	0	0	70
71	0	0	0	0	0	0	0	1	1	0	80
81	0	0	0	0	0	0	0	0	18	0	90
91	4	0	0	0	0	0	0	0	0	0	100
101	2	0	0	0	0	0	0	0	0	0	110
121	0	0	0	0	0	0	0	2	1	0	130
131	0	0	0	0	0	0	0	0	1	0	140
151	0	0	0	0	0	11	0	0	1	6	160
171	0	0	0	0	0	0	0	0	0	2	180
181	0	0	3	0	0	1	0	0	0	0	190
191	0	0	0	1	0	0	0	0	0	0	200
201	0	1	0	0	0	0	0	0	0	4	210
211	2	0	0	0	0	0	0	0	0	0	220
221	0	0	0	0	0	1	1	0	0	0	230
231	0	0	1	0	0	0	17	0	0	0	240
251	0	0	0	0	0	0	0	0	3	0	260
271	55	0	0	0	2	0	0	0	0	0	280
281	0	0	0	0	6	29	0	0	1	0	290
311	0	0	0	0	2	0	0	0	0	7	320
321	0	0	0	9	0	0	0	0	0	0	330
331	0	0	0	0	0	0	1	0	0	0	340
351	0	1	0	0	0	0	0	0	0	2	360
361	1	0	0	1	0	0	0	0	2	1	370
371	1	0	0	0	0	0	0	0	0	1	380
381	0	0	0	0	0	0	0	0	6	0	390
401	0	0	0	0	0	0	0	1	43	0	410
411	0	0	0	0	0	0	1	0	0	0	420
431	0	0	119	0	84	38	0	0	0	0	440
441	0	2	0	0	0	0	0	0	0	0	450
461	0	0	0	0	1	0	0	0	0	0	470
471	0	0	0	0	0	0	0	0	225	0	480
481	12	0	3	0	0	44	27	0	0	0	490
491	0	0	3	0	30	0	42	0	230	1	500

-CONTINUED-

	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	
501	0	0	0	0	60	0	0	0	2	0	510
511	0	4	168	0	0	0	0	0	0	0	520
531	0	1	1	1	2	30	194	179	64	48	540
541	3	0	0	0	0	325	531				

ORIGIN ZONE 545   PURPOSE 1   7911 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	1	0	0	0	0	1	0	0	20
21	0	0	0	0	5	0	0	0	0	0	30
31	2	1	3	2	1	1	0	0	0	1	40
41	0	0	0	1	0	0	1	17	0	0	50
51	0	0	0	0	19	0	0	0	0	0	60
61	0	0	0	0	0	1	2	0	0	0	70
71	3	0	0	0	0	3	0	1	18	0	80
81	0	0	0	0	0	0	0	0	13	0	90
91	1	2	0	0	0	1	0	0	1	0	100
101	1	0	0	0	0	0	0	0	0	0	110
111	0	0	2	0	0	0	0	0	0	0	120
121	0	1	0	1	0	0	0	1	0	2	130
131	0	1	0	0	0	0	0	1	1	1	140
151	1	0	0	0	0	22	0	0	9	18	160
161	1	0	0	0	1	0	0	0	0	0	170
181	0	0	24	0	0	0	0	0	0	0	190
191	0	0	0	1	0	0	0	0	0	0	200
201	0	0	0	0	0	0	0	0	0	22	210
211	3	0	19	0	0	3	0	0	0	1	220
221	0	0	0	0	0	83	0	0	0	0	230
231	0	0	2	0	0	6	33	0	1	8	240
241	0	0	0	0	0	0	0	2	0	0	250
251	0	0	0	0	0	0	0	1	0	0	260
261	0	15	0	32	0	7	0	1	1	0	270
271	44	1	0	0	1	0	0	0	0	0	280
281	0	0	0	1	0	5	174	58	1	0	290
291	7	0	0	0	0	0	0	0	0	0	300
301	0	0	0	0	0	4	0	0	1	2	310
311	1	0	0	0	0	0	0	0	0	5	320
321	0	0	7	3	0	9	0	0	0	0	330
331	0	0	2	0	0	1	0	0	0	0	340
341	0	6	0	0	0	0	0	0	0	0	350
351	0	0	0	0	0	0	0	6	0	3	360
361	0	0	0	28	0	0	0	0	0	0	370
381	0	0	0	0	0	0	0	0	5	0	390
391	0	1	0	0	0	0	0	0	0	0	400
401	0	0	1	0	0	1	0	1	10	0	410

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FROM	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
411	0	0	0	0	0	1	0	0	0	7	420
421	0	0	0	0	0	0	1	1	0	0	430
431	0	0	44	0	78	0	0	0	0	0	440
441	0	30	0	0	0	0	0	0	0	0	450
451	0	0	0	2	0	7	0	0	1	5	460
461	0	0	0	0	58	0	0	0	0	0	470
471	0	0	0	0	14	0	0	1	292	0	480
481	11	0	6	0	0	42	29	0	0	1	490
491	0	0	59	35	104	0	135	57	28	14	500
501	1	0	0	0	38	3	0	0	0	0	510
511	0	19	18	0	0	0	0	0	0	0	520
521	0	0	0	0	1	1	0	0	0	1	530
531	16	15	10	17	14	206	572	583	433	803	540
541	220	70	0	0	1	1238	1747				

ORIGIN ZONE 546   PURPOSE 1   1462 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
31	0	0	0	33	11	0	0	0	0	0	40
81	0	0	0	0	0	0	0	0	1	0	90
91	17	0	0	0	0	0	0	0	0	0	100
101	0	0	10	0	0	3	0	0	1	0	110
121	0	0	0	0	0	0	0	18	0	0	130
151	0	0	0	0	0	0	0	0	71	13	160
181	0	0	45	0	0	0	0	0	0	0	190
201	0	0	0	0	0	0	0	0	0	10	210
211	3	0	0	0	0	0	0	0	0	0	220
231	0	0	0	0	0	1	0	0	0	0	240
271	18	2	0	0	0	0	0	0	0	0	280
291	0	0	0	0	5	0	0	0	13	0	300
311	0	0	0	0	163	0	0	0	0	22	320
321	0	0	0	2	0	7	0	0	0	0	330
351	0	0	0	0	0	0	0	2	0	0	360
401	0	0	0	0	0	0	0	0	4	0	410
431	0	0	3	0	8	0	0	0	0	0	440
471	0	0	0	0	0	0	0	0	16	0	480
481	1	0	0	0	0	0	40	0	0	0	490
491	0	0	0	0	7	0	0	0	0	0	500
501	0	0	0	0	90	0	0	1	0	0	510
511	57	0	0	0	1	0	0	0	0	1	520
521	119	248	7	9	0	0	0	0	0	0	530
531	0	0	0	0	0	0	18	0	0	0	540
541	0	0	0	32	328	0	0				

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

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ORIGIN ZONE 547   PURPOSE 1   841 TOTAL ORIG/PROD

TO ZONE	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-	-0-	TO ZONE
31	0	0	0	1	0	0	0	0	0	0	40
101	0	0	0	0	0	2	0	0	0	0	110
111	0	1	0	0	0	0	0	0	0	0	120
151	0	0	0	0	0	3	0	0	1	3	160
211	0	0	3	0	0	0	0	0	0	0	220
271	22	0	0	0	0	0	0	0	0	0	280
291	0	0	0	0	3	0	0	0	0	0	300
321	0	0	0	2	0	2	0	0	0	0	330
471	0	0	0	0	0	0	0	0	26	0	480
481	1	0	0	0	0	0	25	0	0	0	490
491	0	0	0	0	10	0	0	0	0	0	500
501	0	0	0	0	20	0	0	0	0	0	510
511	0	0	0	0	0	0	0	0	1	0	520
521	23	473	26	5	0	1	0	0	0	0	530
531	0	0	0	0	0	0	133	0	0	0	540
541	0	0	0	1	53	0	0				
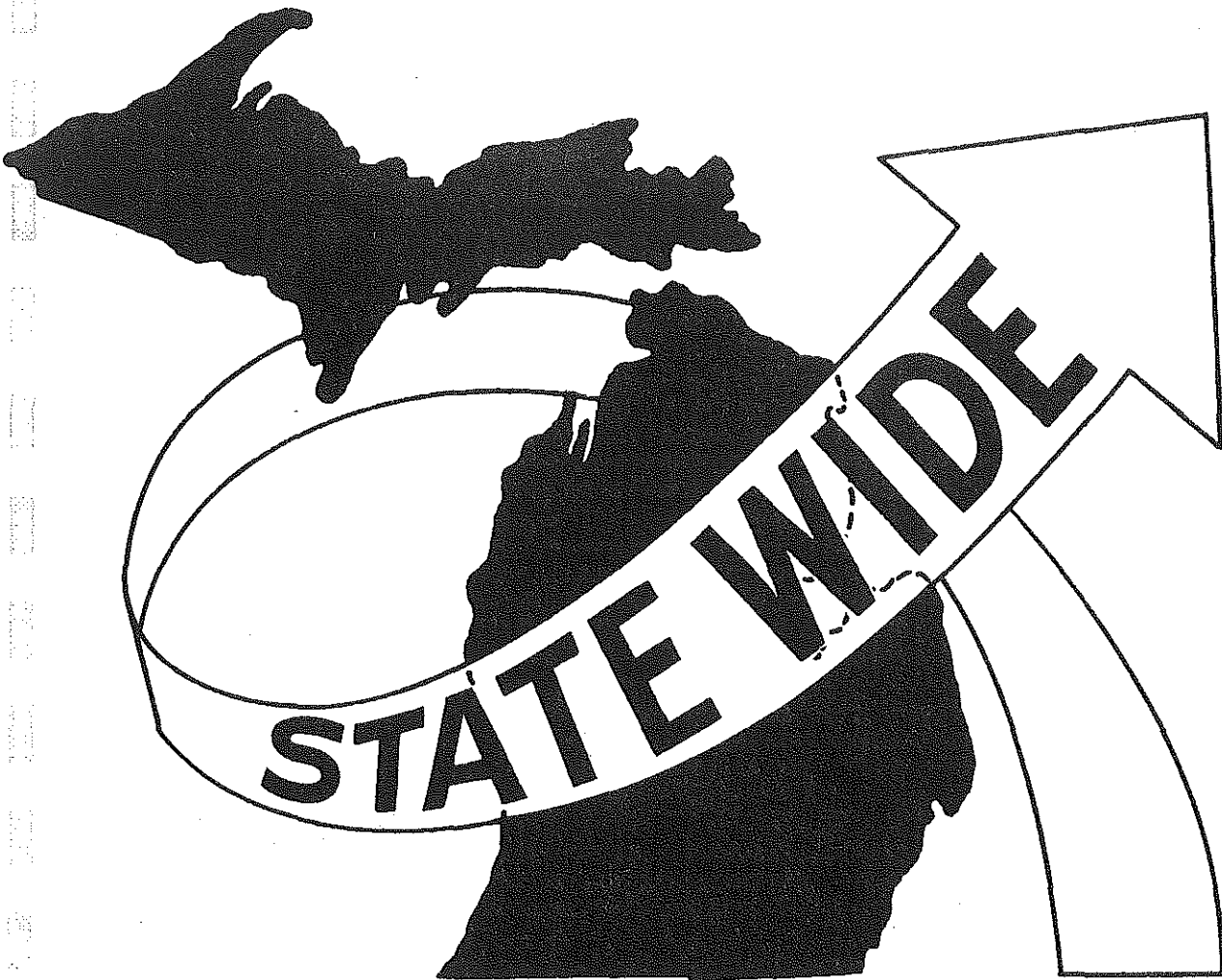
APPENDIX II

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

PAGE NO.   55
DATE 10 OCT 75
TIME 09.12.19

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
1	0	0	0	0	41	0	0	0	0
2	0	0	0	0	42	0	0	0	0
3	2	2	4	0	43	0	0	0	0
4	0	0	0	0	44	0	1	1	0
5	0	0	0	0	45	0	3	3	0
6	0	0	0	0	46	0	0	0	0
7	0	0	0	0	47	0	1	1	0
8	0	0	0	0	48	0	19	19	0
9	0	1	1	0	49	0	0	0	0
10	0	0	0	0	50	0	0	0	0
11	0	0	0	0	51	0	5	5	0
12	0	0	0	0	52	0	0	0	0
13	0	4	4	0	53	0	0	0	0
14	0	1	1	0	54	0	0	0	0
15	0	0	0	0	55	5	248	253	0
16	0	0	0	0	56	0	0	0	0
17	0	0	0	0	57	0	0	0	0
18	0	2	2	0	58	0	0	0	0
19	0	0	0	0	59	0	0	0	0
20	362	0	362	0	60	0	0	0	0
21	1	1	2	0	61	0	0	0	0
22	11	20	31	0	62	0	0	0	0
23	0	0	0	0	63	0	0	0	0
24	0	0	0	0	64	0	0	0	0
25	0	5	5	0	65	0	0	0	0
26	0	1	1	0	66	0	23	23	0
27	0	0	0	0	67	0	3	3	0
28	0	0	0	0	68	0	1	1	0
29	0	12506	12506	0	69	0	2	2	0
30	0	0	0	0	70	0	0	0	0
31	0	2	2	0	71	0	3	3	0
32	0	1	1	0	72	0	0	0	0
33	2	3	5	0	73	0	0	0	0
34	43	120	163	0	74	0	0	0	0
35	8	19	27	0	75	0	0	0	0
36	14	6	20	0	76	0	4	4	0
37	0	0	0	0	77	0	0	0	0
38	0	0	0	0	78	0	6	6	0
39	0	0	0	0	79	0	19	19	0
40	0	1	1	0	80	0	0	0	0

TRIP END SUMMARY

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
81	0	0	0	0	121	0	0	0	0
82	0	0	0	0	122	1	5	6	0
83	2	0	2	0	123	0	0	0	0
84	0	0	0	0	124	0	5	5	0
85	0	0	0	0	125	0	0	0	0
86	0	0	0	0	126	0	0	0	0
87	0	0	0	0	127	0	0	0	0
88	0	0	0	0	128	15	974	989	0
89	7	53	60	0	129	0	1	1	0
90	0	0	0	0	130	0	2	2	0
91	38	27	65	0	131	0	0	0	0
92	0	2	2	0	132	0	1	1	0
93	0	0	0	0	133	0	0	0	0
94	0	0	0	0	134	0	5	5	0
95	0	0	0	0	135	0	0	0	0
96	0	16	16	0	136	0	0	0	0
97	0	0	0	0	137	0	0	0	0
98	0	0	0	0	138	0	1	1	0
99	0	2	2	0	139	0	8	8	0
100	0	0	0	0	140	0	6	6	0
101	0	3	3	0	141	0	0	0	0
102	0	0	0	0	142	0	0	0	0
103	38	58	96	0	143	0	0	0	0
104	0	0	0	0	144	0	0	0	0
105	0	0	0	0	145	0	0	0	0
106	268	164	432	0	146	0	0	0	0
107	0	0	0	0	147	0	0	0	0
108	0	0	0	0	148	0	0	0	0
109	0	21	21	0	149	0	0	0	0
110	0	0	0	0	150	4	0	4	0
111	0	0	0	0	151	0	7	7	0
112	0	1	1	0	152	0	0	0	0
113	0	76	76	0	153	0	0	0	0
114	0	0	0	0	154	0	0	0	0
115	0	0	0	0	155	0	0	0	0
116	0	3	3	0	156	94	108	202	0
117	0	0	0	0	157	91	0	91	0
118	0	0	0	0	158	0	1	1	0
119	0	0	0	0	159	205	200	405	0
120	0	0	0	0	160	299	87	386	0

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
201	223	0	223	0
202	0	1	1	0
203	0	0	0	0
204	0	2	2	0
205	0	1	1	0
206	0	0	0	0
207	0	0	0	0
208	0	0	0	0
209	0	0	0	0
210	46	147	193	0
211	167	34	201	0
212	0	0	0	0
213	5	55	60	0
214	0	0	0	0
215	0	0	0	0
216	2	53	55	0
217	0	0	0	0
218	0	0	0	0
219	0	0	0	0
220	0	1	1	0
221	0	0	0	0
222	0	0	0	0
223	0	0	0	0
224	0	0	0	0
225	0	0	0	0
226	0	259	259	0
227	0	1	1	0
228	0	0	0	0
229	0	0	0	0
230	0	4	4	0
231	0	0	0	0
232	0	0	0	0
233	4	3	7	0
234	0	0	0	0
235	0	0	0	0
236	1	190	191	0
237	15	152	167	0
238	0	0	0	0
239	0	1	1	0
240	0	8	8	0

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

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TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
241	0	1	1	0	281	0	0	0	0
242	0	0	0	0	282	0	0	0	0
243	0	0	0	0	283	0	0	0	0
244	0	0	0	0	284	0	19	19	0
245	0	0	0	0	285	0	57	57	0
246	0	0	0	0	286	0	47	47	0
247	0	0	0	0	287	0	321	321	0
248	0	2	2	0	288	4	160	164	0
249	0	0	0	0	289	0	9	9	0
250	0	0	0	0	290	0	1	1	0
251	0	0	0	0	291	4	16	20	0
252	0	2	2	0	292	0	0	0	0
253	0	0	0	0	293	92	0	92	0
254	0	0	0	0	294	0	0	0	0
255	0	0	0	0	295	0	9	9	0
256	0	0	0	0	296	0	0	0	0
257	0	0	0	0	297	1	0	1	0
258	0	1	1	0	298	0	0	0	0
259	0	3	3	0	299	4	32	36	0
260	0	0	0	0	300	0	0	0	0
261	0	0	0	0	301	0	0	0	0
262	12	79	91	0	302	0	0	0	0
263	0	0	0	0	303	0	0	0	0
264	0	32	32	0	304	0	0	0	0
265	0	0	0	0	305	0	0	0	0
266	215	7	222	0	306	0	14	14	0
267	0	0	0	0	307	0	0	0	0
268	0	1	1	0	308	0	0	0	0
269	0	1	1	0	309	0	1	1	0
270	0	0	0	0	310	0	2	2	0
271	13	323	336	0	311	2	5	7	0
272	71	32	103	0	312	0	0	0	0
273	0	0	0	0	313	0	1	1	0
274	0	0	0	0	314	0	0	0	0
275	0	5	5	0	315	258	8033	8291	0
276	0	0	0	0	316	0	0	0	0
277	0	2	2	0	317	0	0	0	0
278	0	0	0	0	318	0	0	0	0
279	0	0	0	0	319	0	0	0	0
280	0	0	0	0	320	5	93	98	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	0	15	15	0
322	0	0	0	0	362	0	0	0	0
323	1	8	9	0	363	2	19	21	0
324	0	29	29	0	364	3	430	433	0
325	0	0	0	0	365	0	0	0	0
326	7206	3785	10991	0	366	0	0	0	0
327	0	0	0	0	367	0	0	0	0
328	0	0	0	0	368	0	0	0	0
329	0	0	0	0	369	0	21	21	0
330	1	0	1	0	370	0	1	1	0
331	0	0	0	0	371	0	1	1	0
332	0	0	0	0	372	0	0	0	0
333	0	2	2	0	373	0	0	0	0
334	0	0	0	0	374	0	0	0	0
335	0	0	0	0	375	0	0	0	0
336	0	6	6	0	376	0	0	0	0
337	0	1	1	0	377	0	0	0	0
338	4	4	8	0	378	0	0	0	0
339	0	0	0	0	379	0	0	0	0
340	0	1	1	0	380	0	1	1	0
341	0	0	0	0	381	0	0	0	0
342	0	17	17	0	382	0	0	0	0
343	0	0	0	0	383	0	0	0	0
344	0	0	0	0	384	0	0	0	0
345	0	0	0	0	385	0	0	0	0
346	0	0	0	0	386	110	8	118	0
347	0	0	0	0	387	0	0	0	0
348	0	0	0	0	388	0	1	1	0
349	0	0	0	0	389	0	25	25	0
350	0	0	0	0	390	0	0	0	0
351	0	0	0	0	391	0	0	0	0
352	0	1	1	0	392	105	107	212	0
353	0	0	0	0	393	0	0	0	0
354	0	0	0	0	394	0	0	0	0
355	0	0	0	0	395	0	1	1	0
356	0	0	0	0	396	0	0	0	0
357	0	0	0	0	397	0	0	0	0
358	3	32	35	0	398	0	0	0	0
359	0	0	0	0	399	0	1	1	0
360	1	5	6	0	400	0	0	0	0

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

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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	0	0	0	0
402	0	0	0	0	442	106	113	219	0
403	0	1	1	0	443	0	0	0	0
404	0	0	0	0	444	0	0	0	0
405	0	0	0	0	445	0	0	0	0
406	0	1	1	0	446	0	0	0	0
407	0	0	0	0	447	0	0	0	0
408	0	5	5	0	448	0	0	0	0
409	10	108	118	0	449	0	0	0	0
410	0	0	0	0	450	0	0	0	0
411	0	0	0	0	451	0	0	0	0
412	0	0	0	0	452	0	1	1	0
413	0	0	0	0	453	0	0	0	0
414	0	0	0	0	454	0	2	2	0
415	0	0	0	0	455	0	0	0	0
416	0	2	2	0	456	0	7	7	0
417	0	1	1	0	457	0	0	0	0
418	0	0	0	0	458	0	0	0	0
419	1	0	1	0	459	0	1	1	0
420	0	9	9	0	460	0	5	5	0
421	0	0	0	0	461	0	0	0	0
422	0	0	0	0	462	0	0	0	0
423	0	0	0	0	463	0	0	0	0
424	0	0	0	0	464	0	0	0	0
425	0	0	0	0	465	12	59	71	0
426	0	0	0	0	466	0	2	2	0
427	0	1	1	0	467	0	0	0	0
428	0	1	1	0	468	0	0	0	0
429	0	0	0	0	469	0	61	61	0
430	1	2	3	0	470	0	2	2	0
431	0	0	0	0	471	0	0	0	0
432	0	0	0	0	472	0	0	0	0
433	1132	594	1726	0	473	0	0	0	0
434	0	0	0	0	474	0	0	0	0
435	0	232	232	0	475	0	14	14	0
436	57	55	112	0	476	0	0	0	0
437	2	9	11	0	477	0	0	0	0
438	0	0	0	0	478	0	1	1	0
439	0	0	0	0	479	340	1026	1366	1
440	0	0	0	0	480	0	0	0	0

CONTROL DATA 6600
TRANPLAN SYSTEM
VERSION 3.0.7

MICHIGAN STATEWIDE TRANSPORTATION MODELING SYSTEM
ANN ARBOR RR 100 PERCENT WAYBILL
CARLOADS OF FREIGHT SHIPPED

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TRIP END SUMMARY --- PURPOSE 1

ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS	ZONE/DIST	ORIG/PROD	DEST/ATTR	TOTAL	INTRATRIPS
481	1	31	32	0	521	2285	751	3036	0
482	0	0	0	0	522	5595	1751	7346	0
483	0	26	26	0	523	323	1107	1430	0
484	3	49	52	0	524	11	33	44	0
485	0	0	0	0	525	275	769	1044	0
486	2	119	121	0	526	100	33	133	0
487	3280	510	3790	0	527	26	16	42	0
488	0	0	0	0	528	21	1707	1728	0
489	0	0	0	0	529	0	0	0	0
490	0	1	1	0	530	0	2	2	0
491	0	0	0	0	531	8	27	35	0
492	1098	126	1224	0	532	31	51	82	0
493	82	416	498	0	533	21	50	71	0
494	433	54	487	0	534	170	497	667	0
495	43	1284	1327	0	535	0	27	27	0
496	0	1	1	0	536	99	453	552	0
497	1390	263	1653	0	537	2929	1417	4346	0
498	0	63	63	0	538	313	1382	1695	0
499	684	349	1033	0	539	8360	3753	12113	0
500	5	16	21	0	540	13898	3380	17278	0
501	7	264	271	0	541	444	1336	1780	0
502	1	4	5	0	542	4517	4312	8829	0
503	0	0	0	0	543	600	1253	1853	0
504	0	0	0	0	544	2779	1285	4064	0
505	316	650	966	0	545	7911	2649	10560	1
506	6	3	9	0	546	1462	4499	5961	0
507	1363	2	1365	0	547	841	4838	5679	0
508	0	2	2	0					
509	94	3	97	0					
510	28	0	28	0					
511	249	111	360	0					
512	110	579	689	0					
513	555	371	926	0					
514	0	0	0	0					
515	1	1	2	0					
516	37	9	46	0					
517	15	0	15	0					
518	0	0	0	0					
519	257	184	441	0					
520	496	3	499	0					

| TOTALS | 75352 | 75352 | 150704 | 2 |

APPENDIX III
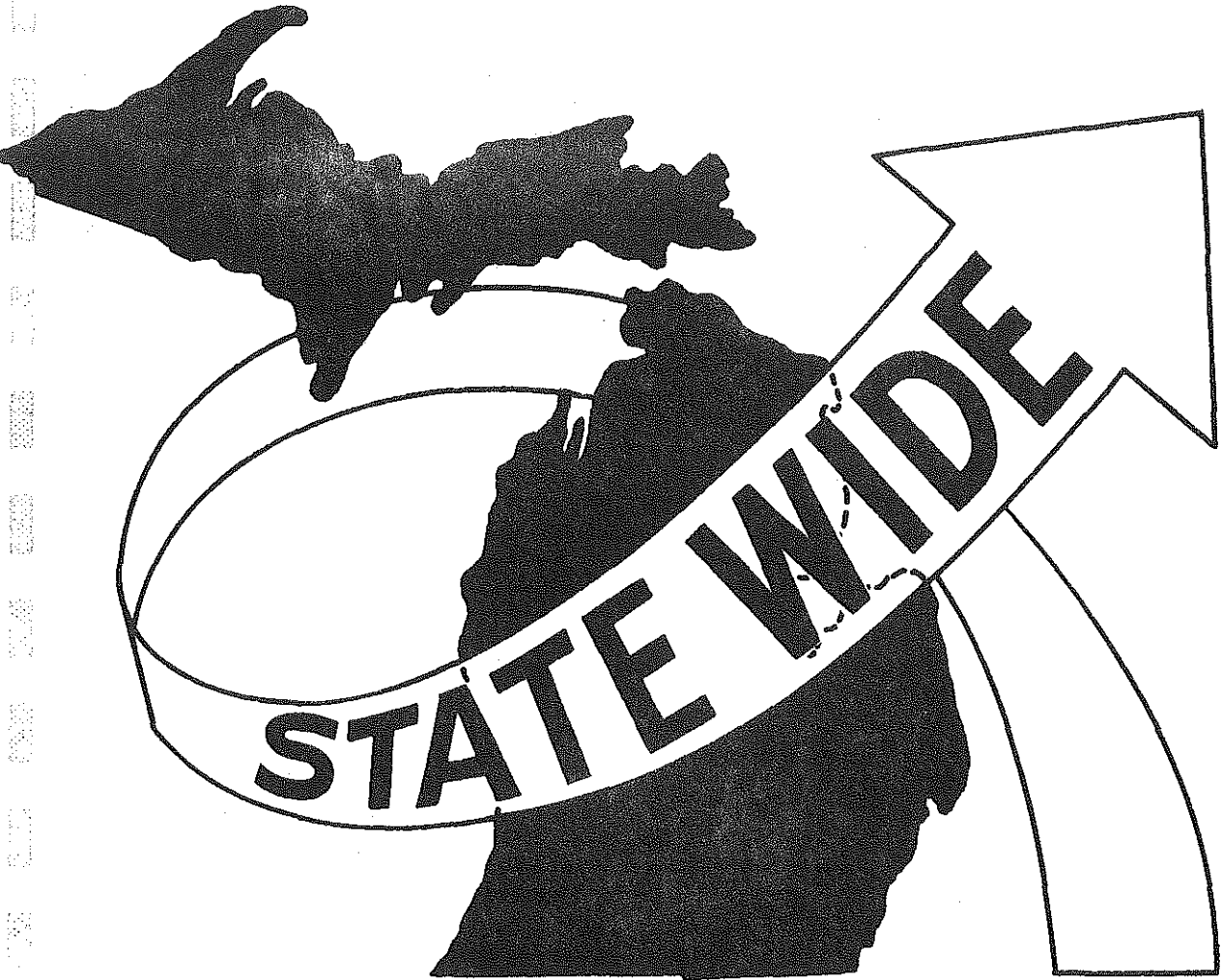
DATA NOT INCLUDED
IN COMMODITY FLOW MATRIX

ANN ARBOR RAILROAD 1973 100% SAMPLE

Entries not included in the matrix:

    (1) were missing origin or destination SPLC

                    <u>AND</u>

    (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.

Destination SPLC

Origin SPLC

Destination FSAC

Destination Railroad Code

Origin FSAC

Origin Railroad Code

```
10 5F 10    600103     12343100      -0      000DURND308004211140000010000000500000200093537549      2072
10 5F 10    600103     12343100      -0      000DURND308004711110000000000000600000240093537549      2073
10 30103 7750  3    140    -0345140MANIT4820IANN208002812534000010000000600000218035I549539      2074
10 5020874014 7685353    -0518623DIANN208KEWAU312004711110000000000000100000120332549545      2079
10 30103     8204   735    -0311210MANIT4820URND308002611135000010000006300000228027549 79      2086
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