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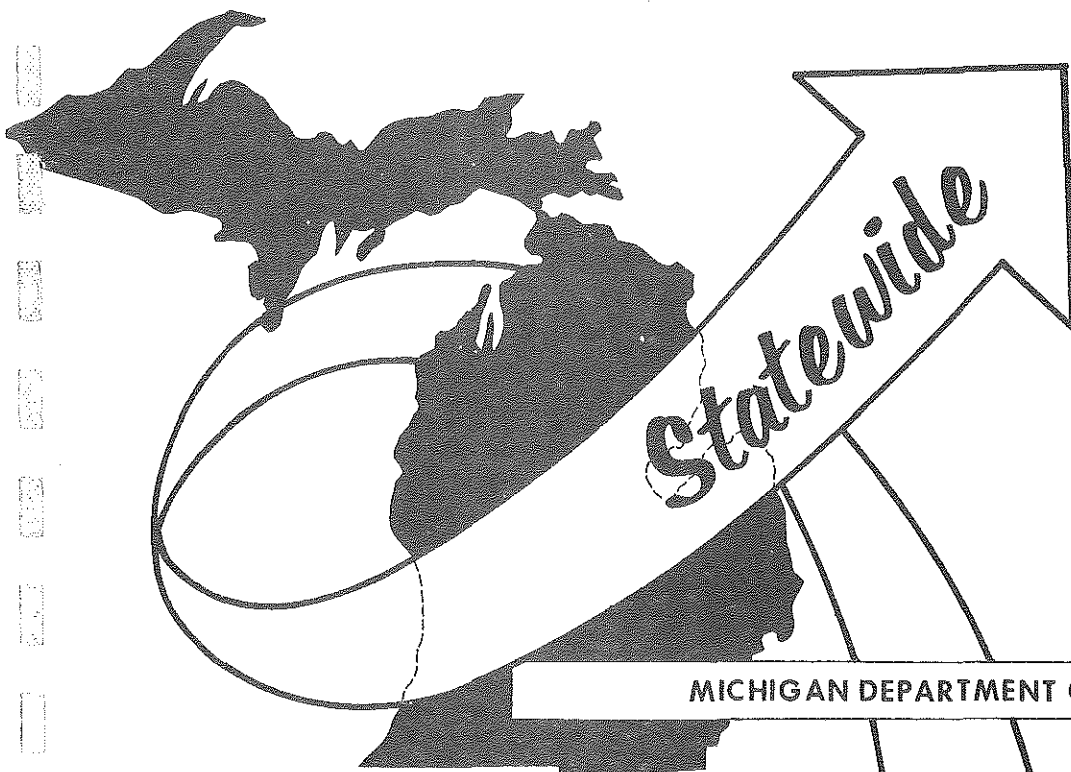
Statewide Transportation Analysis & Research

REVENUE AND EXPENDITURE INVENTORY
AND
RETRIEVAL PROCESS

FOR MICHIGAN COUNTIES
OR
INCORPORATED CITIES AND VILLAGES

I-R

Transportation Planning Procedures Section
June 1986



MICHIGAN DEPARTMENT OF TRANSPORTATION

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BUREAU OF TRANSPORTATION PLANNING

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AND
RETRIEVAL PROCESS

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OR
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I-R

Transportation Planning Procedures Section
June 1986

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REVENUE AND EXPENDITURE INVENTORY

AND

RETRIEVAL PROCESS

KAREN HOWE

BUREAU OF TRANSPORTATION PLANNING

TRANSPORTATION PLANNING PROCEDURES SECTION

JUNE 1986

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INTRODUCTION

Roadway receipts and expenditures for the 83 County Road Commissions and Incorporated Cities and Villages in Michigan are reported each year by the Michigan Department of Transportation (MDOT). They are found in Local Services Divisions Report No. 162 "Annual Progress Report". The Bureau of Transportation Planning, Transportation Planning Procedures Section has organized this information on the department computer and developed retriever programs to access the computer files. The purpose of this effort is to better utilize the data in the transportation planning process. In this report we will describe what the computer file looks like, the work that went into organizing the data on the computer, and the retriever programs that access the data files.

Receipts and expenditures data that have been organized at present are for past years that are no longer stored on computer tape by MDOT'S Engineering and Scientific Data Center. Selected years were coded from the printed reports by the Transportation Planning Bureau and entered on magnetic computer tape by MDOT'S Engineering and Scientific Data Center. A natural division in the data files is by geographic level. This report will describe each levels file and retriever development separately.

County Level

The county receipts and county expenditures are stored in separate computer files. The data items or variables in the receipts file are different than the variables in the expenditure file (figure 1). Years 1974 thru 1979 are currently available for access with the retrieval programs. For each county there are four different record types. These are: county primary roads, county local roads, county road commission and the county total. State totals are included in county number eighty-four.

Several steps had to be completed in order to put the computer files in a form compatible to the retriever program process. An adjustment had to be made to several years due to incorrect blocking on the magnetic computer tape. This required recoding several missing columns every tenth record. Two years of data had to have their year number changed in order to have all data reported in calendar year. A short cobol program had to be run on all files to convert imbedded negative signs to a dash in front of the number. This was done so that fortran programs could be run on the files. Due to changes in reporting there is variation in the variables from year to year. These variations had to be clearly noted so that correct display of the data could be accomplished with the retriever programs. The files had to be sorted by first county number and second record type number. This allows direct reads when accessing the file. Finally the county receipts files for each year were merged together into one file and the county expenditures files for each year were merged into one file. At this point the county receipts and county expenditures computer files were ready to use.

The retriever programs that were created to run on the county receipts and expenditures files were developed to make access easy, even with a minimal knowledge of the data files. These programs can be run to produce three different types of output. The first type of output is a computer terminal screen display of selected data. The program prompts the user to enter county number, record type, year and variables desired before displaying the data (figure 2). A second way to run retriever is to create a disk file for input into the "TRAIN" line graph program. Once again the program prompts the user. A name for the output file, county number, record type, begin and end year, and yearly increment must be entered (figure 3). A copy of the disk file along with titles is automatically sent to the printer for the user (figure 4). Creating a disk file for input into the "CALFORM" mapping program is the third way to run the retriever programs. The user is prompted to enter a name for the output disk file, year, record type and the desired variable (figure 5).

COUNTY RECEIPTS

ENGINEERING
ALLOCATION
TRANSFER
SNOW REMOVAL
FEDERAL FUNDS
TRUNKLINE MAINTENANCE
COUNTY RAISED / TWP CONTRIBUTION
OTHER LOCAL
MISCELLANEOUS
PROCEEDS OF SALES
BEGINNING BALANCE
TOTAL

COUNTY EXPENDITURES

CONSTRUCTION
MAINTENANCE
WINTER MAINTENANCE
TRAFFIC SERVICES
TRUNKLINE MAINTENANCE
ADMIN. EXPENSE
DEBT SERVICE
EQUIPMENT EXPENSE
CAPITAL OUTLAY
GAIN OR LOSS
ADJUSTMENT TO FUNDS
ENDING BALANCE
TOTAL

R P/ACTS1/CNTY/REV/RETRIEVER;PT 60
#RUNNING 4071

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

1

..To Retrieve & Display ACT 51 data..

ENTER desired COUNTY # (1-84,84=state total) , 0 to QUIT

45

choose desired RECORD TYPE

- 1= COUNTY PRIMARY
- 2= COUNTY LOCAL
- 3= COUNTY ROAD COMMISSION
- 4= COUNTY TOTAL

ENTER 1,2,3, or 4 , 0 to QUIT

1

ENTER desired YEAR 1974-1979 acceptable, 0 to QUIT

1977

REVENUE VARIABLES AVAILABLE

- 1 - ENGINEERING
- 2 - ALLOCATION
- 3 - TRANSFER
- 4 - SNOW REMOVAL
- 5 - FEDERAL FUNDS
- 6 - TRUNKLINE MAINTENANCE
- 7 - COUNTY RAISED / TWP CONTRIBUTION
- 8 - OTHER LOCAL
- 9 - MISCELLANEOUS
- 10 - PROCEEDS OF SALES
- 11 - BEGINNING BALANCE
- 12 - TOTAL

ENTER range of desired Variables (X,X) 1-12 acceptable

1,12

ENTER "OK" to display data

OK

ACT 51 REVENUE DATA

County # 45 x LEELANAU
Rec.Type# 1 x COUNTY PRIMARY
Year # 1977 #

Variable#	1	•	\$6,400	ENGINEERING
Variable#	2	•	\$472,636	ALLOCATION
Variable#	3	•	\$-141,790	TRANSFER
Variable#	4	•	\$0	SNOW REMOVAL
Variable#	5	•	\$38,010	FEDERAL FUNDS
Variable#	6	•	\$0	TRUNKLINE MAINTENANCE
Variable#	7	•	\$0	COUNTY RAISED / TWP CONTRI BUTION
Variable#	8	•	\$0	OTHER LOCAL
Variable#	9	•	\$551	MISCELLANEOUS
Variable#	10	•	\$0	PROCEEDS OF SALES
Variable#	11	•	\$320,716	BEGINNING BALANCE
Variable#	12	•	\$696,523	TOTAL

..To Retrieve & Display ACT 51 data..

.PAGE.

ENTER desired COUNTY # (1-84,84=state total) , 0 to QUIT

0

SET-31.4 PT-1.1 IO-0.6 PRIME TIME MACHINE UNITS-5

R P/ACT51/CNTY/EXP/RETRIEVER,PT 60
RUNNING 4138

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

2

..To create a TRAIN data file..

ENTER name for output file

KRL/ACT51/TRAIN

Outfile KRL/ACT51/TRAIN.

already exists...if you wish to write over it ENTER Y
else N to re-enter

Y

ENTER desired COUNTY # (1-84,84=state total) , 0 to QUIT

87

choose desired RECORD TYPE

- 1= COUNTY PRIMARY
- 2= COUNTY LOCAL
- 3= COUNTY ROAD COMMISSION
- 4= COUNTY TOTAL

ENTER 1,2,3, or 4 , 0 to QUIT

1

ENTER desired begin & end YEAR (XXXX,XXXX) 1974-1979 acceptable, 0 to QUIT

1974,1979

ENTER Yearly Increment (X)

1

disk file for input to TRAIN CREATED
ID= (STWD)KRL/ACT51/TRAIN ON STATEWIDE.

DISK FILE VARIABLES and their COLUMNS

Year	T1	I4
County Number	T6	I2
Record Type	T9	I1
CONSTRUCTION	T10	I14
MAINTENANCE	T24	I9
WINTER MAINTENANCE	T33	I9

TRAFFIC SERVICES	T42	I8
TRUNKLINE MAINTENANCE	T50	I9
ADMIN. EXPENSE	T59	I9
DEBT SERVICE	T68	I9
EQUIPMENT EXPENSE	T77	I8
CAPITAL OUTLAY	T85	I09
GAIN OR LOSS	T94	I09
ADJUSTMENT TO FUNDS	T103	I10
ENDING BALANCE	T113	I10.PAGE.
TOTAL	T123	I10

copy of disk file with titles sent to PRINTER

SET=44.6 PT=2.1 IO=1.6 PRIME TIME MACHINE UNITS=10 (LINES PRINTED=41)

ACT 51 COUNTY LEVEL EXPENDITURE DATA

COUNTY: ST. JOSEPH
COUNTY PRIMARY

CAL YEAR	CONSTRUCTION	MAINTENANCE	WINTER * MAINTENANCE	TRAFFIC SERVICES	TRUNKLINE * MAINTENANCE	ADMIN. EXPENSE	DEBT SERVICE	EQUIPMENT EXPENSE	CAPITAL * OUTLAY	GAIN OR LOSS	ADJUSTMENT TO FUNDS	ENDING BALANCE	TOTAL
1974	\$466,330	\$253,918	\$0	\$56,577	\$0	\$37,007	\$0	\$0	\$0	\$0	\$0	\$396,481	\$1,210,313
1975	\$408,430	\$229,727	\$69,672	\$21,051	\$0	\$39,147	\$0	\$26,891	\$0	\$0	\$0	\$435,446	\$1,230,364
1976	\$330,504	\$315,680	\$0	\$120,511	\$0	\$37,106	\$0	\$38,904	\$0	\$0	\$0	\$371,358	\$1,224,143
1977	\$819,626	\$246,939	\$139,348	\$31,780	\$0	\$53,100	\$0	\$27,789	\$0	\$0	\$0	\$266,656	\$1,575,238
1978	\$394,521	\$334,441	\$131,055	\$19,663	\$0	\$46,461	\$0	\$18,460	\$0	\$0	\$0	\$241,935	\$1,186,536
1979	\$236,264	\$322,743	\$85,604	\$22,257	\$0	\$15,406	\$0	\$25,021	\$0	\$0	\$0	\$525,819	\$1,263,254

* These categories have some variation from year to year due to changes in reporting.

SOURCE: Michigan Department of Transportation
Local Government Division
Annual Progress Report
PREPARED BY: Michigan Department of Transportation
Planning Procedures Section
04/02/86

R P/ACTS1/CNTY/REU/RETRIEVER,PT 60
:RUNNING 4159

ID= (STWD)KRL/ACTS1/REU/CALFORM ON STATEWIDE.

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

?

3

..To create a CALFORM data file..

ENTER name for output file

KRL/ACTS1/REU/CALFORM

ENTER desired YEAR 1974-1979 acceptable, 0 to QUIT

1975

choose desired RECORD TYPE

- 1= COUNTY PRIMARY
- 2= COUNTY LOCAL
- 3= COUNTY ROAD COMMISSION
- 4= COUNTY TOTAL

ENTER 1,2,3, or 4 , 0 to QUIT

3

REVENUE VARIABLES AVAILABLE

- 1 - ENGINEERING
- 2 - ALLOCATION
- 3 - TRANSFER
- 4 - SNOW REMOVAL
- 5 - FEDERAL FUNDS
- 6 - TRUNKLINE MAINTENANCE
- 7 - COUNTY RAISED / TWP CONTRIBUTION
- 8 - OTHER LOCAL
- 9 - MISCELLANEOUS
- 10 - PROCEEDS OF SALES
- 11 - BEGINNING BALANCE
- 12 - TOTAL

ENTER desired VARIABLE # (X) 1-12 acceptable

4

disk file for input into CALFORM CREATED

disk file format

T1,I4 = YEAR
T5,I4 = RECORD TYPE (3) - COUNTY ROAD COMMISSION
T9,I4 = COUNTY NO.
T13,I10 = VARIABLE CHOSEN - SNOW REMOVAL
*ET=33.5 PT=1.8 IO=2.3 PRIME TIME MACHINE UNITS=10

FIGURE 5

City Level

City receipts and city expenditures are stored in separate computer files. Currently years 1971 thru 1979 are available for access with the retrieval programs. Receipts have fourteen data items on each file and expenditures have fifteen data items on each file (figure 6). The cities and villages, which are included each year, may vary based on changes in status of incorporation. Also, in 1976 there were fewer cities which had receipts and expenditures data reported. For each city there are three different record types. These are: major streets, local streets, and total.

Several steps were completed to put the computer files in a form compatible to the retriever program process. Some data items were larger than the columns allocated on the computer files for the state total records. Each file was checked and such problems noted for adjustment later. Using a city number - county number equivalence disk file, county number was added to each record. For cities that are located in more than one county, the county with the largest portion of the city population was the factor used to decide which county number to assign to that city. Due to changes in reporting there is variation in the variables from year to year. These variations had to be clearly noted so that correct display of the data could be accomplished with the retriever programs. The files were then sorted by first county number, second city number and third record type. The city data was summed up to county level for each field - each record type. A new separate file was created that has for each county - each record type the total of all cities within the county. In the summed file the number of characters in a data item were increased when necessary. A manual fix was done on state total records that needed adjustment. The city level receipts files for each year were merged together into one file and the city level expenditures files for each year were merged together into one file. In the same manner the summed city receipts files were merged together into one file and the summed city expenditure files were merged together into one file. At this point the computer files are ready for use.

The retriever programs that were created to run on the city receipts and expenditures files were developed to make access easy, even with a minimal knowledge of the data files. These programs can be run to produce three different types of output. The first type of output is a computer terminal screen display of selected data. The program prompts the user to first enter county number. The program then displays for the user the cities within that county along with their city numbers. The user enters the desired city number or 9999 for the total of all the cities within the county. Then record type and year must be entered before the data is displayed (figure 7). A second way to run the retriever programs is to create a disk file for input into the "TRAIN" line graph program. Once again the program prompts the user. A name for the output file and county number

CITY RECEIPTS

PAYMENTS - MUHF
TRANSFERS - MUHF
TAX LEVIES - LOCALLY RAISED
SPECIAL ASSESS - LOCALLY RAISED
GENERAL FUND - LOCALLY RAISED
G.O. BONDS - LOCALLY RAISED
ACT 175 BOND FUNDS
FEDERAL GRANTS
COUNTIES & ADJ. CITIES
INTEREST ON MUHF
CONTRACTUAL SERVICES
TEMPORARY ADVANCES
BEGINNING BALANCE
TOTAL FUNDS

CITY EXPENDITURES

CONSTRUCTION - STREETS & BRIDGES
CONSTRUCTION - NONMOTORIZED
MAINTENANCE - STREETS & BRIDGES
MAINTENANCE - NONMOTORIZED
TRAFFIC SERVICES - WINTER
TRAFFIC SERVICES - SIGNS & SIGNALS
ROADSIDE PARKS
ADM. ENG. & REC. KEEP.
OTHER SYSTEM CONTRIBUTION - ST HIGHWAY
OTHER SYSTEM CONTRIBUTION - CITY & CNTY.
CONTRACTUAL SERVICES
REPAY OF TEMPORARY ADVANCES
TRANSFER TO DEBT RETIREMENT
ENDING BALANCE
TOTAL FUNDS

.P/ACT51/CITY/REV/RETRIEVER,PT 60
RUNNING 4235

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

1

Variable*	5	=	\$169,297	GENERAL FUND	-	LOCALLY R
AISED						
Variable*	6	=	\$0	G.O. BONDS	-	LOCALLY R
AISED						
Variable*	7	=	\$0	ACT175 BOND FUNDS		
Variable*	8	=	\$0	FEDERAL GRANTS		
Variable*	9	=	\$0	COUNTIES & ADJ. CITIES		
Variable*	10	=	\$0	INTEREST ON MUHF		
Variable*	11	=	\$38,333	CONTRACTUAL SERVICES		
Variable*	12	=	\$0	TEMPORARY ADVANCES		
Variable*	13	=	\$7,295	BEGINNING BALANCE		
Variable*	14	=	\$398,786	TOTAL FUNDS		

.PAGE.

..To Retrieve & Display ACT 51 CITY REVENUE data..

..To Retrieve & Display ACT 51 CITY REVENUE data..

ENTER desired COUNTY NUMBER (XX) 84-state total , 0 to QUIT

22

ENTER desired COUNTY NUMBER (XX) 84-state total , 0 to QUIT

SET-37.2 PT-1.9 IO-1.0 PRIME TIME MACHINE UNITS-9

COUNTY # 22 DICKINSON

CITY # 3410 IRON MOUNTAIN
 CITY # 3640 KINGSFORD
 CITY # 4876 NORWAY

ENTER desired city # or 9999 for the total cities within DICKINSON

3410

choose desired RECORD TYPE

- 1- CITY MAJOR
- 2- CITY LOCAL
- 3- CITY TOTAL

ENTER 1,2 or 3 , 0 to QUIT

3

ENTER desired YEAR (XXXX) 1972 thru 1979 acceptable, 0 TO QUIT

1974

ENTER *OK* to display data

OK

ACT 51 REVENUE DATA

County * 22 * DICKINSON
 City * 3410 * IRON MOUNTAIN
 Rec.Type* 3 * CITY TOTAL
 Year * 1974 *

Variable*	1	=	\$183,861	PAYMENTS FROM MTF
Variable*	2	=	\$0	TRANSFERS - MTF
Variable*	3	=	\$0	TAX LEVIES - LOCALLY RAISED
Variable*	4	=	\$0	SPECIAL ASSESS - LOCALLY RAISED

FIGURE 7

must be entered. The program then displays the cities within the selected county. The user enters the desired city number or 9999 for all cities within the county. Next record type, begin and end year, and yearly increment must be entered (figure 8). A copy of the disk file along with titles is automatically sent to the printer for the user (figure 9). Creating a disk file for input into the "CALFORM" mapping program is the third way to run the retriever programs. It can only create an output file from the summed file which has the city totals for each county. The user is prompted to enter a name for the output disk file, year, record type and desired variable (figure 10).

Four additional files were created for use with the city retriever programs.

- 1) The first file contains 83 records. Each record has a county number and lists all the city numbers that are within that county (figure 11).
- 2) The second file contains 8000 records. A record contains city number and city name. The city number is used as the record number to allow for direct reads by the retriever programs. Not every record in this file has data due to the fact that there are gaps in city number.
- 3) File three also contains 8000 records. City number is used as the record number to allow for direct reads. Again not every record in this file has data in it. Along with city number, a record contains the beginning record number of the receipts data file for each year (figure 13).
- 4) The fourth file is similar to the third file, except it corresponds to the expenditure data file. It contains 8000 records. City number is used as the record number to allow for direct reads. Not every record in the file has data due to gaps in city numbers. Each record with data contains city number and the beginning record number of the expenditure data file for each year (Figure 14).

R P/ACT51/CITY/REV/RETRIEVER,PT 60
:RUNNING 4249

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

2

..To create a TRAIN data file..

ENTER name for output file

KRL/ACT51/CITY/REV/TRAIN

ENTER desired COUNTY NUMBER (XX) 84=state total , 0 to QUIT

56

COUNTY # 56 MIDLAND

CITY # 1452 COLEMAN

CITY # 4406 MIDLAND

CITY # 6010 SANFORD

ENTER desired city # or 9999 for the total cities within MIDLAND

4406

choose desired RECORD TYPE

1- CITY MAJOR

2- CITY LOCAL

3- CITY TOTAL

ENTER 1,2 or 3 , 0 to QUIT

2

ENTER desired begin & end YEAR (XXXX,XXXX) 1972 thru 1979 acceptable, 0 to QUIT

1972,1979

ENTER Yearly Increment (X)

1

disk file for input to TRAIN CREATED
ID- (STWD)KRL/ACT51/CITY/REV/TRAIN ON STATEWIDE.

DISK FILE VARIABLES and their COLUMNS

Year T1 , I4
County Number T11 , I2

Record Type	T10 , I1
Code 1- Receipts	T5 , I1
City Number	T6 , I4
PAYMENTS FROM MTF	T13 , I10
TRANSFERS - MTF	T23 , I9
TAX LEVIES - LOCALLY RAISED	T32 , I9
SPECIAL ASSESS - LOCALLY RAISED	T41 , I9
GENERAL FUND - LOCALLY RAISED	T50 , I9
G.O. BONDS - LOCALLY RAISED	T59 , I9
ACT175 BOND FUNDS	T68 , I9
FEDERAL GRANTS	T77 , I9
COUNTIES & ADJ. CITIES	T86 , I9
INTEREST ON MUHF	T95 , I9.PAGE.
CONTRACTUAL SERVICES	T104 , I9
TEMPORARY ADVANCES	T113 , I9
BEGINNING BALANCE	T122 , I10
TOTAL FUNDS	T132 , I10

copy of disk file with titles sent to PRINTER

\$ET=1:30.5 PT=2.9 IO=2.6 PRIME TIME MACHINE UNITS=16 (LINES P
RINTED=48)

ACT 51 CITY REVENUE DATA

COUNTY: MIDLAND
CITY : MIDLAND
ROADS : CITY LOCAL

CAL YEAR	PAYMENTS FROM MTF	MTF TRANSFERS	TAX * LEVIES	SPECIAL + ASSESS	GENERAL * FUND	G. O. + BONDS	ACT 175 + BOND FUNDS	FEDERAL + GRANTS	COUNTIES & + ADJ. CITIES	INTEREST + ON MWHF	CONTRACTUAL SERVICES	TEMPORARY + ADVANCES	BEGINNING BALANCE	TOTAL FUNDS
1972	\$149,683	\$51,938	\$658,903	\$0	\$169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,722	\$964,414
1973	\$171,106	\$0	\$0	\$189,622	\$385,562	\$0	\$0	\$0	\$0	\$2,148	\$0	\$152,460	\$5,984	\$906,832
1974	\$176,903	\$149,706	\$0	\$181,209	\$0	\$0	\$0	\$0	\$236,617	\$6,619	\$0	\$0	\$221,378	\$971,432
1975	\$174,899	\$155,258	\$0	\$79,710	\$152,692	\$0	\$0	\$0	\$-6,497	\$9,082	\$0	\$69,261	\$197,635	\$832,040
1976	\$101,706	\$149,900	\$0	\$75,604	\$0	\$0	\$0	\$0	\$34	\$-1,777	\$0	\$0	\$-24,750	\$300,717
1977	\$184,549	\$153,500	\$0	\$59,379	\$237,970	\$0	\$0	\$0	\$13,132	\$-1,921	\$0	\$0	\$3,581	\$643,028
1978	\$193,396	\$150,245	\$235,373	\$0	\$306,136	\$0	\$0	\$0	\$256,917	\$0	\$0	\$0	\$-443,084	\$706,183
1979	\$221,499	\$165,545	\$0	\$-11,576	\$371,596	\$0	\$0	\$0	\$-20,145	\$-15,227	\$0	\$0	\$-96,189	\$615,503

* These categories vary in 1972 - tax levies is locally raised funds
- general fund is other sources
+ These categories are not available for 1972

SOURCE: Michigan Department of Transportation
Local Government Division
Annual Progress Report
PREPARED BY: Michigan Department of Transportation
Planning Procedures Section
04/02/86

R P/ACT51/CITY/EXP/RETRIEVER;PT 60
.RUNNING 4676

This program will create the following OUTPUTS:

1. SCREEN DISPLAY of ACT 51 data
2. FILE of ACT 51 data for input into TRAIN
3. FILE of ACT 51 data for input into CALFORM

ENTER 1,2 or 3 for output requested, 0 to QUIT

3

A county level CALFORM data file can be created for the total Expenditures for all cities within each county

ENTER name for output file

KRL/ACT51/CITY/CALFORM

ENTER desired YEAR (XXXX) 1971-1978 acceptable, 0 TO QUIT

1974

choose desired RECORD TYPE

- 1- CITY MAJOR
- 2- CITY LOCAL
- 3- CITY TOTAL

ENTER 1,2 or 3 , 0 to QUIT

2

EXPENDITURE VARIABLES AVAILABLE

- 1 - CONSTRUCTION - STREETS & BRIDGES
- 2 - CONSTRUCTION - NONMOTORIZED
- 3 - MAINTENANCE - STREETS & BRIDGES
- 4 - MAINTENANCE - NONMOTORIZED
- 5 - TRAFFIC SERVICES - WINTER
- 6 - TRAFFIC SERVICES - SIGNS & SIGNALS
- 7 - ROADSIDE PARKS
- 8 - ADM. ENG. & REC. KEEP.
- 9 - OTHER SYSTEM CONTRIB. - ST HIGHWAY
- 10 - OTHER SYSTEM CONTRIB. - CITY & CNTY
- 11 - CONTRACTUAL SERVICES
- 12 - REPAY OF TEMPORARY ADVANCES
- 13 - TRANSFER TO DEBT RETIREMENT
- 14 - ENDING BALANCE
- 15 - TOTAL FUNDS

ENTER desired VARIABLE # (X) 1-15 acceptable

7

disk file for input into CALFORM CREATED
ID= (STWD)KRL/ACT51/CITY/CALFORM ON STATEWIDE.

disk file format

T1,I4 = YEAR
T6,I1 = CODE - 2 FOR EXPENDITURES
T8,I4 = CITY NUMER
T13,I1 = RECORD TYPE (2) - CITY LOCAL
T15,I2 = COUNTY NO.
T18,I13 = VARIABLE CHOOSEN - ROADSIDE PARKS

SET=55.4 PT=2.2 IO=2.6 PRIME TIME MACHINE UNITS-12

FIGURE 11

COUNTY # , CITY # , CITY # , ETC

FIGURE 12

CITY # CITY NAME

FIGURE 13

CITY # , BEGIN RECORD # BEGIN RECORD #
 OF RECEIPTS DATA , OF RECEIPTS DATA , ETC
 FILE FOR YR(1) FILE FOR YR(2)

FIGURE 14

CITY # , BEGIN RECORD # BEGIN RECORD #
 OF EXPENDITURE DATA , OF EXPENDITURE DATA , ETC
 FILE FOR YR(1) FILE FOR YR(2)

CONCLUSION

In the future it is our intention to add additional years to the receipts and expenditures data files. These additional years of receipts and expenditures information will come from MDOT Local Services Division's computer tapes. A new process will have to be developed to extract the data and convert it to the format necessary for the retriever programs. Each new years data would be merged with the existing data files. In case of the city data files, the summed files would need to be updated. Also the file which contains data file record number by year would have to be updated each time the data file is changed.