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Ridership And Travel Characteristics....



Michigan Intercity Bus Study

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN INTERCITY BUS STUDY RIDERSHIP AND TRAVEL CHARACTERISTICS

NOVEMBER 1977

Bureau of Transportation Planning Modal Planning Division Mass Transportation Planning Section

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Weston E. Vivian Commissioner Ann Arbor

DIRECTOR
John P. Woodford

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If you desire additional detailed information on any aspect of the surveys, please contact the Mass Transportation Planning Section, Bureau of Transportation Planning, State Highways Building, P.O. Box 30050, Lansing, Michigan, 48909 -- telephone 517/373-1880.

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EXECUTIVE SUMMARY

This report includes summary information obtained from May 1977 intercity bus on-board and ticket surveys conducted in selected locations throughout Michigan. The purpose of the report is to gain insight into the socio-economic and travel characteristics of Michigan's intercity bus passengers. The report complements a 1974 study conducted by the Michigan Department of State Highways and Transportation entitled "Michigan Intercity Bus Study, Phase I, Inventory and Analysis."

Section I of this report presents major findings from the on-board survey. This survey was conducted in twelve travel corridors and involved the distribution of 3,292 questionnaries to intercity bus passengers. A total of 2,454 or 75 percent were returned and are the basis of the analysis contained herein. Major findings of the study include the following:

- o 53 percent of the passengers traveled by automobile at the origin and destination ends of their bus trips.
- o 50 percent of the passengers were riding the bus to "visit friends or relatives" and another 17 percent reported "personal business" as their trip purpose.
- o 47 percent of the passengers were 18-29 years of age while 25 percent were 50 or older.
- o 23 percent of the passengers were college students followed by homemakers (14 percent), retired (13 percent) and professional/technical/managerial (11 percent).
- o Approximately 67 percent of the respondents had one or more automobiles or truck type vehicles in their household.
- o 27 percent of the passengers came from families having an annual income of \$6,000 or less while 27 percent came from families having an income of \$15,000 or over.
- o Approximately 60 percent of the passengers were females.

The results of the various corridor surveys were quite similar with the exception of corridors with college oriented stations. Stations located adjacent to a college campus had an above average number of riders who walked to the bus station. Friday ridership tended to be much higher than weekday (Monday-Thursday) ridership. College students reported an above average family income and above average number of automobiles or truck type vehicles in their household.

Section II of the report summarizes the results of the ticket survey. This survey was conducted at 36 intercity bus stations throughout the state. Tickets were counted and recorded by destination for at least seven consecutive days at each station. Round trip ticket information was obtained at eight of the stations.

Major findings of the survey include the following:

- o During the week of May 9-15, 1977, 14,233 total tickets were sold at the 36 surveyed stations for a daily average of 2,033 tickets.
- o Average daily ticket sales ranged from 695 at Detroit to 0.3 at Bad Axe.
- o Friday was the busiest day with 3,489 total ticket sales representing 25 percent of the total weekly sales.
- o Total weekly ticket sales at the smaller stations were very consistent for the four weeks in May ranging from 1,014 to 1,066.
- o Round trip ticket sales accounted for 33.2 percent of all tickets sold at the Detroit station and an average of 21.8 percent of total ticket sales at seven other surveyed stations.
- o The month of May typifies an average month for intercity bus patronage since it avoids both the low and high ridership periods experienced by the industry.
- o Approximately two-thirds of all tickets sold had a Michigan destination while one-third had an out-of-state destination.
- o Detroit was the most important Michigan destination generally followed by the larger urbanized areas in the state.
- o The largest out-of-state destination was Chicago with 116.2 trip destinations per day.
- o 406 or 58 percent of all daily trips with an out-of-state destination originated at the Detroit station.

INTRODUCTION

The Michigan Department of State Highways and Transportation has an active program to assist the intercity bus industry in Michigan. These programs involve:

- o Planning Assistance Statewide and regional studies and surveys.
- o Capital Equipment Six year loans for certified carriers to purchase new equipment and upgrade bus fleets in the state.
- o Operating Assistance Funding to assist in the establishment of new routes and services.
- o Passenger Terminal Facilities Funds to develop intercity terminal facilities and improvements designed to provide better services to intercity rail and bus passengers and to integrate, where possible, all available public transportation services.

A major planning study entitled "Michigan Intercity Bus Study, Phase I, Inventory and Analysis" was published in July 1974. This study documented past and present trends experienced by the industry in Michigan and the nation. A major deficiency at that time was an absence of socio-economic and travel information for intercity bus passengers. The surveys documented in this report are designed to correct that deficiency and provide a more complete information base for Departmental programs.

This report presents summary information obtained from two surveys conducted in May 1977. Section I summarizes information obtained from an on-board survey of intercity bus passengers and Section II summarizes information obtained from a ticket survey. The appendices contain more detailed information on selected aspects of both surveys. All information obtained from the surveys has been keypunched and computer processed. The purpose of this report is to present and summarize the most important findings of the surveys.

I. ON-BOARD SURVEY

Purpose and Procedures

The major objectives of the on-board survey were to obtain data on the socioeconomic and travel characteristics of intercity bus passengers.

Procedures utilized in conducting the on-board survey included the selection of two stations along the same intercity bus corridor. Passengers traveling on scheduled intercity buses between the two stations were given a question-naire. The questionnaires were handed out at one station and collected at the other. The procedure was reversed for passengers traveling in the opposite direction. The East Lansing, Flint, and Detroit stations and the Benton Harbor, Kalamazoo, and Grand Rapids stations were treated as a triangle. Passengers traveling between any of the separate set of three stations were included in the survey. Questionnaires were handed out to all passengers boarding a bus at a particular station and also to those with origins at a previous station who remained on the bus. Pencils were supplied to all passengers.

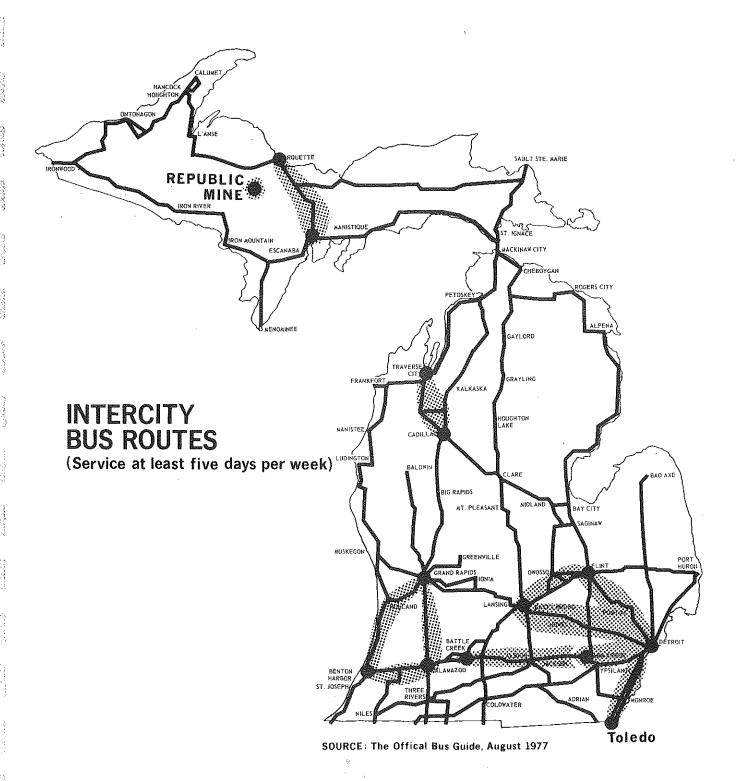
The questionnaires and procedures were finalized after a pretest conducted at the Lansing-East Lansing stations on April 6, 1977. A copy of the question-naire is included as Appendix A. The survey was conducted by the Transportation Surveys Section of the Michigan Department of State Highways and Transportation. The primary responsibility of the Transportation Surveys Section is to conduct urbanized and urban area origin and destination studies, vehicle classification, speed, and rest area studies needed for the planning and development of Michigan's transportation system. The scheduling of the on-board survey during May avoided the survey crews peak work load starting in June and extending through the summer

months. The availability of the survey crew greatly simplified the training aspects of the survey. The crew is experienced in conducting surveys, meeting with the public and assigning work responsibilities and schedules. A bus schedule was developed for each survey station depicting the departures and arrivals by company for all buses included in the survey. The survey crew wore identification tags and carried letters from the Michigan Department of State Highways and Transportation and the major bus companies indicating that the survey was approved by all parties. The letters were shown to bus drivers when requested.

The survey crew handed out questionnaires after all passengers with a destination at the particular station had departed and all passengers with an origin at the station had boarded the bus. The public address system on the bus was used to briefly explain the purpose of the survey. Questionnaires and pencils were handed out to all passengers who were awake and mature enough to fill out the form. Passengers who left the bus at an intermediate station before the forms were picked up were requested to leave the completed form on their seats.

Map 1 outlines the stations included in the survey and shows their relationship to the major intercity bus routes in Michigan. Appendix B outlines the survey dates and the number of questionnaires handed out at each station. The surveys at several of the stations were conducted on two consecutive weekdays (Monday-Thursday). This allowed the field crew to survey as many buses as possible while allowing for convenient travel times between stations. The surveys, at these stations, were conducted during the afternoon of the first day and the morning of the second day. The only exception was the East Lansing, Flint, Detroit triangle. The survey for this triangle was conducted on Thursday, May

INTERCITY BUS ON-BOARD SURVEY CORRIDOR LOCATION



12, 1977 and Friday, May 13, 1977 to provide direct comparison between a normal weekday and a Friday.

Questionnaires were numbered consecutively to identify the station at which they were handed out. Station locations were chosen to obtain as many responses as possible while providing good statewide geographic coverage and good coverage of major intercity bus carriers. A total of 3,292 questionnaires were handed out with 2,454 or 75 percent being returned.

Survey Results

The results of the individual corridor surveys are included in Appendix C. The East Lansing, Flint and Detroit corridor surveys include the overall results for both survey days plus the individual results of the Thursday, May 12, 1977 and Friday, May 13, 1977 surveys. A statewide summary for all questionnaires is also included in the Appendix. A separate statewide summary was also tabulated that excludes the survey conducted at the Republic Mine. Intercity bus service is provided to Republic Mine employees for their daily work trips. The work trip service differs substantially from the more typical service provided by the intercity bus industry.

Table 1 outlines the results for each corridor and the statewide summaries. It provides a convenient format for comparing the results among the various corridors and statewide summaries. The table also includes the return rate for each corridor. All percentages are based upon the total number of returned questionnaires including questionnaires with no responses for the particular question. A percentage is included for no responses. Figures 1 through 8 are bar graphs depicting the results of selected questions from the statewide

Table 1. Intercity Bus On-Board Survey Corridor Summary (Percent of Total Returned Questionnaries)

	Jackson- Ann Arbor	Detroit- Toledo	Traverse City- Cadillac	Detroit- Chicago	Escanaba- Marquette	Kalamazoo- Benton Harbor	Grand Rapids- Benton Harbor	Grand Rapids- Kalamazoo	Detroit-East Lansing Thursday, May 12	Detroit-East Lansing Friday, May 13	Detroit-East Lansing Total	Detroit-Flint Thursday, May 12	Detroit-Flint Friday, May 13	Detroit-Flint Total	East Lansing-Flint Thursday, May 12	- VQ	East Lansing-Flint Total	Republic Mine	Total State Minus Republic Mine	TOTAL STATE
3. Get to Bus No Response Walk Auto Taxi Intercity Bus Commuter Train Amtrak Train Other	0 15 48 18 6 10 0	1 5 65 13 5 6 0	0 8 58 17 8 8 0 0	2 13 50 13 5 12 4 0	0 10 63 11 4 6 2 0 4	2 9 60 8 7 10 0 0	2 4 51 9 4 22 0 5 4	0 16 38 11 11 22 0 0	1 35 41 6 3 11 0 0	0 34 38 7 5 14 0 0	1 34 39 7 4 13 0	2 14 59 9 2 9 0 0	0 8 62 9 3 14 0 1 5	1 11 60 9 3 11 0 0	2 17 60 8 6 5 0	1 27 50 5 1 12 0 1 3	1 23 54 7 3 9 0 0	0 42 58 0 0 0 0	1 17 53 10 5 10 0 0	1 19 53 10 4 10 0 0
4. Get to Destinati No Response Walk Auto Taxi Intercity Bus Local Bus Commuter Train Amtrak Train Other	.on 1 14 41 21 6 13 0 0 4	3 3 52 25 3 9 0 0	0 13 67 8 4 0 0 0	2 7 44 19 4 20 2 0 3	0 18 45 18 4 7 1 0 8	3 16 56 11 4 4 2 0 3	0 13 53 15 13 0 2 0 5	0 14 43 14 0 24 3 0 3	1 13 63 9 3 8 0 0	1 17 60 9 3 7 0 0	1 15 61 9 3 8 0 0	2 11 49 16 9 8 0 0.	1 6 62 16 3 8 0 1 3	2 9 56 16 6 8 0 0 4	4 8 45 25 6 4 0 0 8	1 14 69 6 1 4 0 0	2 11 59 14 3 4 0 0	0 65 35 0 0 0 0	2 11 53 16 4 9 0 0 4	2 15 52 15 4 9 0 0 4

Table 1. Intercity Bus On-Board Survey Corridor Summary (Percent of Total Returned Questionnaries) - continued

	Jackson- Ann Arbor	Detroit- Toledo	Traverse City- Cadillac	Detroit- Chicago	Escanaba- Marquette	Kalamazoo- Benton Harbor	Grand Rapids- Benton Harbor	Grand Rapids- Kalamazoo	Detroit-East Lansing Thursday, May 12	ו כסיסו		Detroit-Flint Thursday, May 12	Detroit-Flint Friday, May 13		East Lansing-Flint Thursday, May 12		East Lansing-Flint Total	Republic Mine	Total State Minus Republic Mine	
5. Trip Purpose No Response	1	4	0	1	2	3	2	0	1	0	1	4	3	3	4	1	2	1	2	2
Work	9	7	8	12	8	8	9	14	9	7	8	7	7	7	7	5 2	6 2	99 0	8 1	14 1
Shopping	1	1	0	0	2	0	4	3	0	2	1	2	1	1	1	2	[U		1
Personal Business	28	14	17	15	9	18	15	16	23	14	18	19	19	19	20	13	16	0	17	16
√ Visit Friends/ Relatives	39	54	63	44	51	42	55	57	46	60	54	39	52	45	46	63	56	0	50	47
Vacation	5	7	4	16	13	12	9	5	3	4	4	5	5	5	5	3	4	0	7	6
Other Social	-									·					1				l	
Recreation	3	2	0	1	4	0	0	0	5	4	5	1	3	2	2	5	4	0	3	2
Other	15	11	8	11	11	16	7	5	11	9	10	22	12	17	17	8	12	0	12	11
6. Cars in Househol	d																	:		
No Response	3	9	8	6	3	4	2	3	3	1	2	7	7	7	5	3	4	1	5	5
None	43	37	25	35	40	39	35	38	25	24	25	33	36	34	43	29	35	7	34	32
One	29	30	33	21	32	. 29	31	30	23	22	23	33	24	29	18	23	21	26	26	26 24
Two	14	19	21	22	22	23	13	24	30	29	30	17	22	20	22 12	25 20	24 17	54 13	22 13	13
Three+	11	6	13	10	4	5	20	5	19	23	22	9	11	10	14	,20	Τ/	13	тэ	13

Table 1. Intercity Bus On-Board Survey Corridor Summary (Percent of Total Returned Questionnaries) - continued

															 					
	Jackson- Ann Arbor	Detroit- Toledo	Traverse City- Cadillac	Detroit- Chicago	Escanaba- Marquette	Kalamazoo- Benton Harbor	Grand Rapids- Benton Harbor	Grand Rapids- Kalamazoo	Detroit-East Lansing Thursday, May 12	Detroit-East Lansing Friday, May 13	Detroit-East Lansing Total	Detroit-Flint Thursday, May 12	Detroit-Flint Friday, May 13	Detroit-Flint Total	East Lansing-Flint Thursday, May 12	East Lansing-Flint Friday, May 13	East Lansing-Flint Total	Republic Mine	Total State Minus Republic Mine	TOTAL STATE
7. Ride Last Year No Response 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 100+	16 66 7 6 2 0 0 0 0	28 63 3 1 0 1 0 0 0	21 75 0 0 4 0 0 0 0 0	30 54 8 3 3 0 0 0 0 0	26 59 8 3 1 1 0 0 0	34 45 12 1 2 3 0 0 0 0	31 49 18 0 2 0 0 0 0	22 54 8 11 0 0 0 0 0 0 0 5	8 58 16 9 2 2 2 0 1 0 0 3	10 53 18 10 2 2 2 0 1 1 0	9 55 17 10 2 2 2 0 1	21 61 11 2 2 0 1 1 1 0 0	17 57 7 8 5 3 0 0 0	19 59 9 5 3 2 1 0 0 0	20 57 6 6 3 4 0 0 0	17 54 13 6 3 2 3 1 0 0	18 55 10 6 3 3 2 0 0	5 0 1 1 0 1 1 0 0 0 89	20 58 10 5 2 1 1 0 0 0	19 54 9 5 2 1 1 0 0 0
8. Occupation No Response Professional Craftsman Services Office Homemaker Student Student	2 12 7 4 4 14 6	7 9 6 4 4 24 4	4 13 4 0 0 21 4	3 20 5 4 8 14 5	3 11 1 7 5 14 3	4 8 7 2 3 16 9	0 9 4 2 0 22 4	0 22 11 8 3 11 0	1 13 2 3 1 7	1 10 4 1 5 7 9	1 11 3 2 3 7 8	4 9 5 2 4 2 11	5 7 3 2 4 16 10	5 8 4 2 4 14 10	3 11 3 3 6 16 9	2 5 3 3 5 8 14	2 8 3 3 5 11 12	1 6 84 2 0 0	3 11 5 3 4 14 7	3 11 10 3 4 13 7
(college) Retired Unemployed Other	18 11 10 11	6 17 8 11	8 29 8 8	12 16 6 7	29 17 3 8	10 20 14 5	22 33 2 4	14 19 5 8	48 6 7 5	48 4 6 6	48 5 7 5	9 14 13 17	16 16 8 13	12 15 10 15	18 15 5 12	41 5 3 12	31 9 4 12	1 0 0 7	13 7 9	12 7 9

o

Table 1. Intercity Bus On-Board Survey Corridor Summary (Percent of Total Returned Questionnaries) - continued

																				
	Jackson- Ann Arbor	Detroit- Toledo	Traverse City- Cadillac	Detroit- Chicago	Escanaba- Marquette	Kalamazoo- Benton Harbor	Grand Rapids- Benton Harbor	Grand Rapids- Kalamazoo	Detroit-East Lansing Thursday, May 12	Detroit-East Lansing Friday, May 13	I I .	Detroit-Flint Thursday, May 12	Detroit-Flint Friday, May 13		East Lansing-Flint Thursday, May 12		East Lansing-Flint Total	Republic Mine	Total State Minus Republic Mine	TOTAL STATE
VI. 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		-				_ 														
9. Family Income No Response 2,999 or less 3,000-5,999 6,000-8,999 9,000-11,999 12,000-14,999 15,000-24,999 25,000+	13 11 22 15 12 6 10	22 16 15 13 10 9 11	29 8 8 25 13 4 8	19 14 10 9 11 8 18	15 19 20 13 10 9 10	20 15 18 10 8 7 10	18 11 9 18 13 4 25	3 30 16 8 8 5 14	13 13 9 8 7 9 17 23	12 7 8 11 6 12 21 23	12 9 8 10 6 11 19 23	19 14 15 14 9 9 15	15 12 22 10 10 14 10	17 13 18 12 9 11 12 6	14 19 13 15 9 5	20 14 8 10 5 10 18 15	17 16 10 12 7 8 17	8 1 0 4 27 59	17 13 14 12 9 9 15	16 13 13 11 9 10 18
10. Sex No Response Male Female	5 45 50	5 32 63	4 50 46	4 39 57	3 42 55	5 37 58	2 38 60	0 49 51	3 35 62	3 35 62	3 35 62	5 43 52	3 39 58	4 41 55	2 36 63	5 32 63	4 33 63	1 98 1	4 37 59	4 41 55
11. Age Range No Response 17 or under 18-29 30-39 40-49 50-64 65+	2 5 49 12 9 15 9	5 4 29 13 12 22 16	4 8 33 4 13 13 25	4 3 37 18 11 16 12	2 3 49 9 8 17 13	3 8 40 9 9 12 18	2 4 36 5 7 25 20	0 3 38 3 11 22 24	1 5 67 8 6 6 7	1 9 71 5 4 5 4	1 7 69 6 5 5	2 10 44 4 9 18 12	1 10 39 10 10 17 13	2 10 42 7 10 17	3 7 47 10 9 11 13	3 18 59 6 4 6 5	3 13 54 8 6 8	0 0 30 30 15 25	3 7 47 10 8 14	2 6 46 11 9 15 11
Total Returns Total Hand-Outs Percent Returned	218 268 81	416 608 68	24 33 73	226 308 73	101 111 91	97 127 76	55 64 86	37 43 86	230 301 76	312 500 62	542 801 68	161 201 80	154 211 73	315 412 77	107 134 80	147 201 73	254 335 76	168 182 92	2,286 3,110 74	2,454 3,292 75

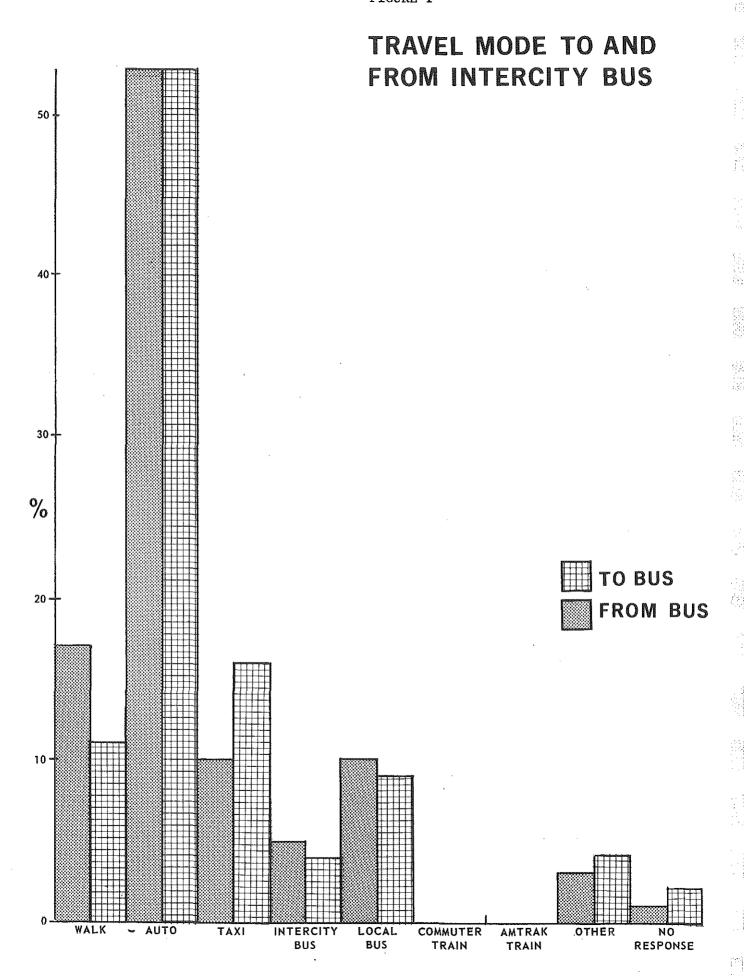
summary. The results from the Republic Mine survey are not included in the bar charts.

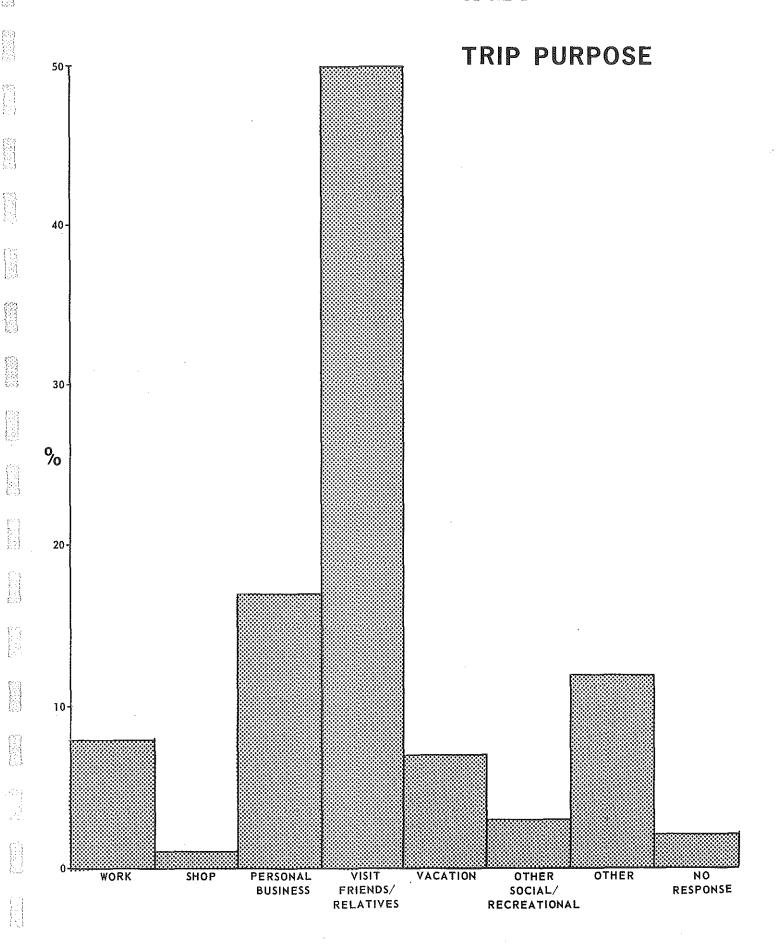
Slightly over one-half of the passengers returning questionnaires traveled in an automobile to get to the bus and to get to their destination after leaving the bus. The modes of travel at the origin and destination ends of the bus trips are very similar. Slightly fewer persons, however, walked or took a taxi to their destination than they did to get to the bus at the beginning of their trip. After the automobile mode, the next most important modes for getting to the bus or to the final destination were walk, taxi and local bus. Approximately 10 percent of the intercity bus passengers used local bus service to get to the bus or to get to their destination.

Approximately one-half of the passengers returning questionnaires had riden an intercity bus up to nine times during the past twelve months. One-half of the passengers road the bus to visit friends or relatives. Personal business was the next most important trip purpose. The "visit friends or relatives" and "personal business" trip purposes combined accounted for over two-thirds of all trips.

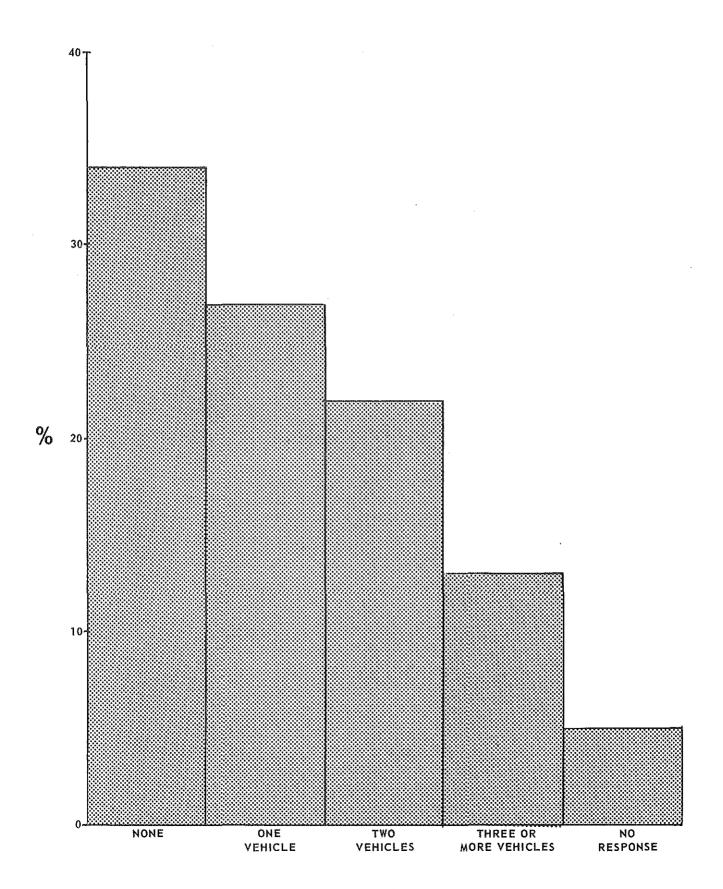
Approximately 60 percent of the passengers were females. Almost one-half of the passengers were 18-29 years of age while 25 percent were 50 or older. Approximately 27 percent of the passengers come from families having an annual income of \$6,000 or less while approximately 27 percent came from families having an income of \$15,000 or more.

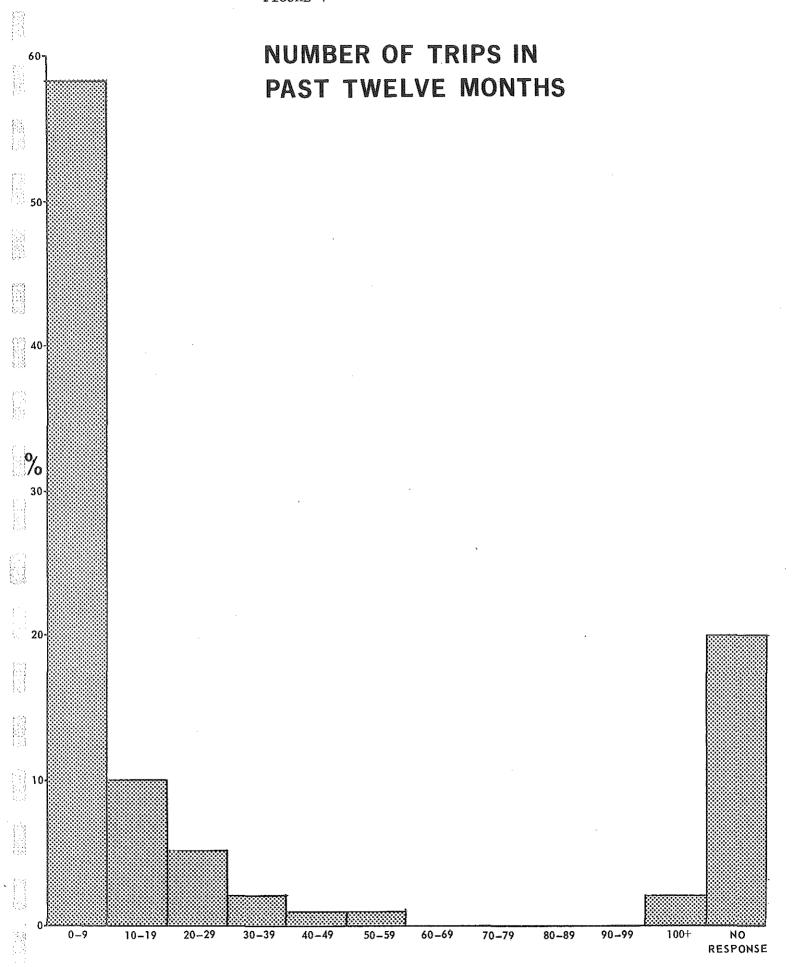
College students comprised the largest occupation category with 23 percent followed by homemakers with 14 percent, retired with 13 percent and professional with 11 percent.

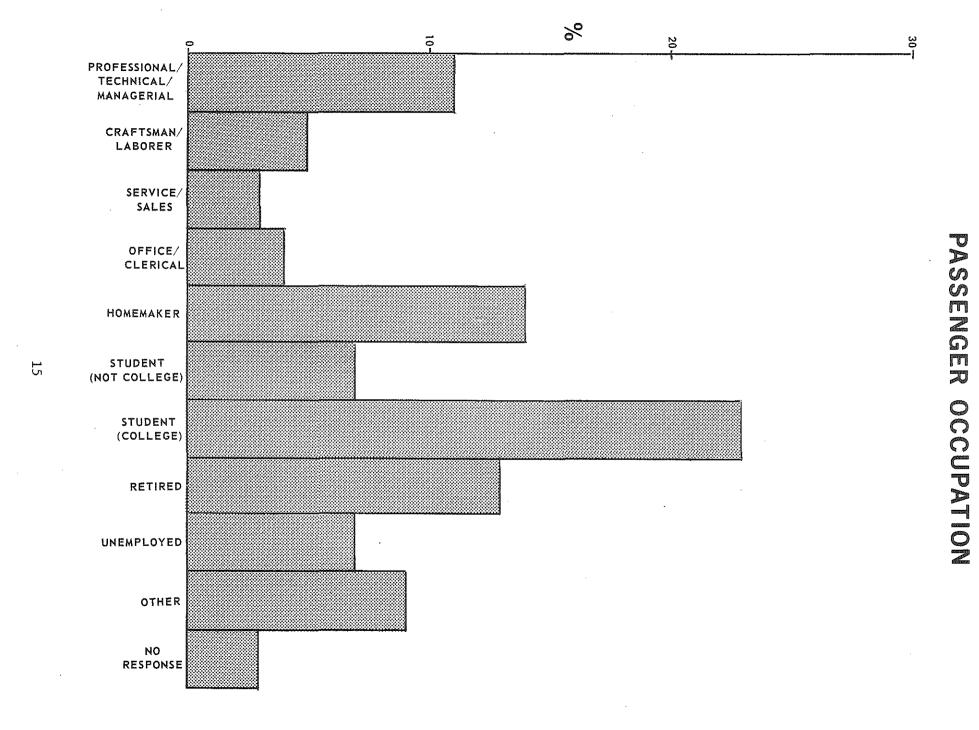




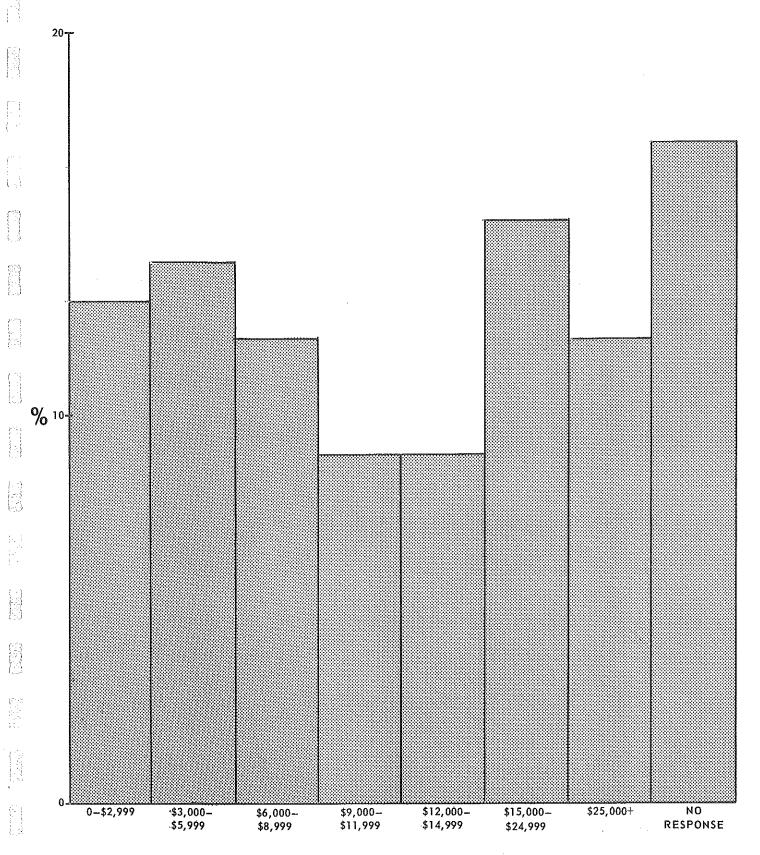
CAR OR TRUCK TYPE VEHICLE OWNED BY HOUSEHOLD



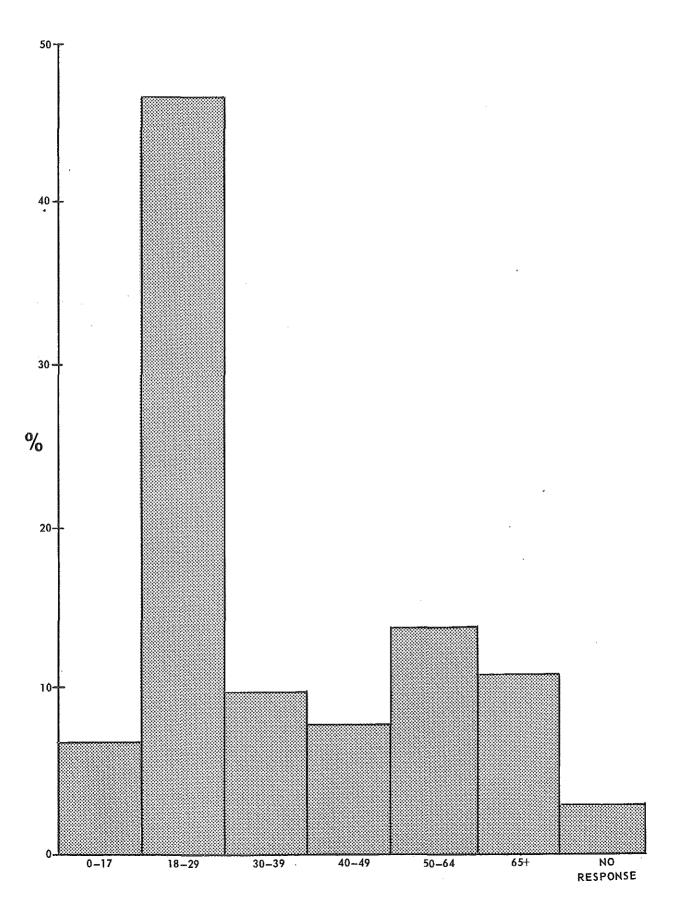




FAMILY INCOME



PASSENGER AGE



Of the passengers who returned questionnaires, 62 percent had one or more automobile or truck type vehicles in their household. Of those who returned a questionnaire and answered question 6, 66.5 percent have one or more automobile or truck type vehicles in their household.

Overall, the answers to the individual questions among the various corridors have a high degree of similarity. The major exception was the Republic Mine survey. The uniqueness of the work trip service to the Republic Mine resulted in answers that varied from the typical responses. Almost all of the passengers at the mine were males who walked to the bus. They earned a higher income and had more cars per household than the statewide average. They also rode intercity buses a greater number of times during the last twelve months than the average intercity bus passenger.

Many of the responses for the East Lansing-Flint and East Lansing-Detroit corridors differed from the statewide average. These two corridors accounted for an above average percentage of college students and riders between 18-29 years of age who are more inclined to walk to the bus station. The close priority of the East Lansing bus station to the Michigan State University campus and the large college student ridership strongly influence the survey results for the two corridors. The students reported an above average family income and corresponding larger number of automobiles in their household, especially in the East Lansing-Detroit corridor. The Escanaba-Marquette corridor also had an above average percentage of college students reflecting the influence of Northern Michigan University located in Marquette. Ferris State College was not in session during the survey period, thus, the Big Rapids survey results do not reflect the influence of the college riders.

There were several differences between the Thursday and Friday responses at the East Lansing-Detroit, East Lansing-Flint and the Detroit-Flint corridors. The percent of college students was highest for the East Lansing-Detroit corridor with a constant 48 percent. The East Lansing-Flint and Detroit-Flint corridors both had a larger percentage of college students on Friday than on Thursday. The percent of college students in the Detroit-Flint corridor was, however, below the statewide average.

Selected Cross Tabulations

To gain a better understanding of the characteristics of Michigan's intercity bus riders, the responses to selected questions were cross tabulated with the responses to the trip purpose question. Tables 2 through 5 show the results of the cross tabulations. Visiting friends or relatives accounted for 48 percent of all trip purposes. Passengers 65 and older, students (college and other), homemakers and retired persons accounted for an above average percentage of trips for visiting friends or relatives. Riders who were visiting friends or relatives tended to have more automobiles or truck type vehicles in their household and to use intercity bus service on a much more frequent basis than the average rider.

Personal business was the second most important trip purpose and attracted an above average percentage of professional/technical/managerial, service/sales, office/clerical, college students and persons in the 18-29 age bracket. Work was the third most important trip purpose and attracted an above average percentage of professional/technical/managerial, service/sales, office/clerical, college students and persons in the 30-39 age bracket.

Table 2. Trip Purpose by Age

			Age Gi	coups			A11
Purpose	0-17	18-29	30-39	40-49	50-64	65+	Purposes
Work	2.6	13.4	31.7	17.6	18.7	2.4	14.7
Shopping	0.7	0.9	0.8	0.0	1.1	3.1	1.1
Personal Business	14.6	19.9	15.1	17.6	11.9	7.5	16.3
Visit Friends/Relatives	51.7	45.6	34.3	45.3	49.1	70.5	47.9
Vacation	7.9	5.2	4.1	6.0	7.9	9.0	6.2
Other Social/Recreational	4.6	3.0	1.9	1.9	1.1	2.0	2.5
Other	17.9	12.0	12.1	11.6	10.2	5.5	11.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	
Percentage by Age	6.4	47.6	11.2	9.1	14.9	10.8	100.0

Table 3. Trip Purpose by Automobiles Available

		Automo	biles		A11
Purpose	0	1	2	3+	Purposes
Work	8.3	14.5	23.2	16.0	14.8
Shopping	1.3	1.2	0.8	1.3	1.2
Personal Business	15.4	15.4	16.4	22.1	16.6
Visit Friends/Relatives	53.6	48.4	42.5	39.1	47.4
Vacation	8.7	4.6	5.3	3.9	6.0
Other Social/Recreational	1.8	2.5	2.7	3.9	2.5
Other	10.9	13.4	9.1	13.7	11.5
Total	100.0	100.0	100.0	100.0	
All (Automobiles Available)	33.4	28.0	25.4	13.2	100.0

Table 4. Trip Purpose by Occupation

Purpose	Professional Technical Managerial	Craftsman Laborer	Service Sales	Office Clerical	Homemaker	Student (Other than College)	Student (College)	Retired	Unemployed	Other	All Purposes
Work	24.8	65.7	22.2	8.9	1.9	2.4	6.6	0.7	6.6	18.1	14.8
Shopping	0.8	0.4	1.4	0.0	1.3	0.6	1.5	2.4	0.6	0.5	1.1
Personal Busines Business	22.8	9.0	22.2	21.0	9.8	14.9	21.4	13.7	16.7	15.4	16.4
Visit Friends/ Relatives	29.5	13.5	41.7	50.0	70.5	56.9	52.7	63.3	42.9	35.3	47.2
Vacation	8.9	3.7	6.9	7.8	5.4	7.8	4.2	10.1	7.1	5.9	6.4
Other Social/ Recreational	1.6	0.4	2.8	5.6	2.2	4.2	3.6	2.1	2.3	2.2	2.6
Other	11.6	7.3	2.8	6.7	8.9	13.2	10.0	7.7	23.8	22.6	11.5
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
All Occupations	11.0	10.4	3.1	3.8	13.4	7.1	22.5	12.2	7.1	9.4	100.0

N

Table 5. Trip Purpose by Trip Frequency (Last 12 Months)

			<u></u>	·····	Trip 1	Frequenc	ЭУ					A11
Purpose	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100+	Purposes
Work	6.2	9.2	12.0	12.5	23.3	21.1	66.7	44.5	0.0	0.0	90.0	15.9
Shopping	0.5	2.2	3.2	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.5	0.9
Personal Business	17.8	17.5	13.6	25.0	26.7	26.3	32.3	11.1	0.0	0.0	3.7	16.5
Visit Friends/Relatives	54.5	50.2	52.8	43.8	40.0	31.5	0.0	33.3	50.0	100.0	2.1	47.9
Vacation	6.5	4.8	4.0	4.2	6.7	10.5	0.0	0.0	0.0	0.0	1.6	5.6
Other Social/Recreational	2.4	3.9	3.2	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.5	7.4
Other	12.1	12.2	11.2	14.5	0.0	5.3	0.0	11.1	50.0	0.0	1.6	10.8
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	
All Frequencies	66.5	11.7	6.4	2.4	1.5	1.0	0.3	0.5	0.1	0.0	9.6	100.0

II. INTERCITY BUS TICKET SURVEY

Purpose and Procedures

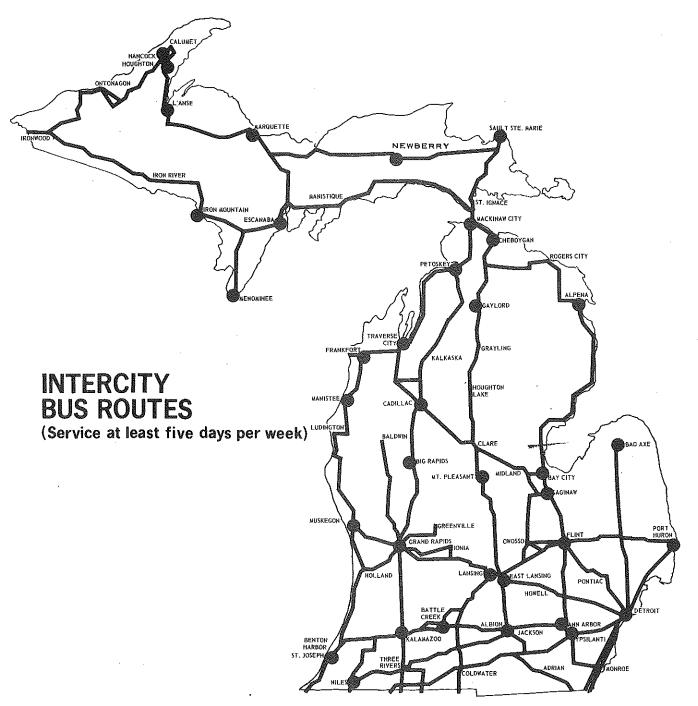
The Michigan Department of State Highways and Transportation conducted an intercity bus ticket survey in May 1977 in conjunction with the on-board intercity bus survey. The purpose of the ticket survey was to obtain a comprehensive overview of intercity bus ridership levels and travel patterns. The data will be used to analyze the short term needs of the state's intercity bus system and as a base for developing a computerized intercity bus ridership demand model. Such a model would be a valuable tool in analyzing the desirability of providing new or improved intercity bus service.

Tickets were tabulated by destination at 36 stations throughout the state as shown on Map 2. Tickets were compiled by day for the week of May 9-15, 1977, for the larger stations and by day for the month of May 1977 for the smaller stations. The trip destinations were coded by specific locations for Michigan destinations and by major cities or states for out-of-state destinations.

The large number and geographic distribution of the survey stations presented a significant problem in obtaining the data since manpower and travel requirements prohibited the sole use of Department personnel. The individual state planning and development regions and urbanized area transportation planning agencies graciously offered their assistance in conducing most of the ticket surveys. This procedure greatly reduced travel times and spread out the manpower burden.

INTERCITY BUS TICKET SURVEY LOCATIONS

(May 1977)



SOURCE: The Offical Bus Guide, August 1977

All survey personnel were given a standard work form. The form listed major potential destinations in Michigan and throughout the nation. Destinations were recorded by specific Michigan cities and major cities located in adjacent states. All other destinations were recorded by state. The work form included blank spaces to fill in additional Michigan destinations.

The time required to complete a daily ticket survey ranged from approximately fifteen minutes at a small station to one and one-half hours at Detroit. Other urbanized area ticket surveys averaged approximately one-half hour. The station managers proved to be extremely helpful — answering questions and in some cases even volunteering to conduct the survey.

Daily Ticket Sales

Table 6 is a daily summary of all tickets sold at each of the 36 stations for the week of May 9-15, 1977. During the week, there were a total of 14,233 tickets sold at all surveyed stations or an overall average of 2,033 tickets per day. Average daily ticket sales at the individual stations ranged from 695 at Detroit to 0.3 at Bad Axe. The five most productive stations (Detroit, East Lansing, Grand Rapids, Flint and Kalamazoo) accounted for a daily average of 1,287 tickets or 63 percent of the 2,033 average daily tickets sold at the 36 stations. Friday was, by far, the busiest day with a total of 3,489 tickets or 25 percent of total weekly sales. The next highest sales day was Monday followed by Saturday. The Friday on-board survey conducted at East Lansing, Flint and Detroit indicated that many of the Friday riders were college students traveling to visit friends or relatives. An analysis of daily ticket destinations indicates that many of the Monday and Sunday riders are college students making their return trip to the campus.

Table 6. Intercity Bus Survey - Daily Ticket Sales, May 1977

Station	Monday May 9	Tuesday May 10	Wednesday May 11	Thursday May 12	Friday May 13	Saturday May 14	Sunday May 15	Total	Average
Ann Arbor	79	80	92	96	199	71	47	664	94.9
Battle Creek	117	73	71	94	124	99	76,,	654	93.4
Bay City	24	24	17	10	12	40	76 NA <u>1</u> /	127	21.2
Benton Harbor	65	34	43	21	85	43	38	329	47.0
Detroit	727	598	570	585	1,042	669	674	4,865	695.0
East Lansing	73	63	99	228	581	181	151	1,376	196.6
Flint	134	90	76	100	212	138	127	877	125.3
Grand Rapids	130	122	115	161	287	153	135	1,103	157.6
Jackson	56	42	64	33	70	53	39	357	51.0
Kalamazoo	87	107	91	115	194	126	.97	817	112.4
Lansing	64	62	54	87	197	74	93	631	90.1
Muskegon	86	43	40	42	56	56	48	371	53.0
Saginaw	57	42	51	43	86	46	71.,	396	56.6
Ypsilanti	72	60	70	. 76	123	69	71 NA <u>1</u> /	470	78.3
Alpena	1	7	7	3	5	5	1	29	4.1
Bad Axe	0	0	1	1	0	0	0	2	0.3
Big Rapids 2/	7	11	5	7	6	8	0	44	6.3
Cadillac	24	0	0	35	0	0	0	59	8.1
Escanaba	10	26	6	15	37	0	10	104	14.9
Frankfort	2	0	0	0	0	0	. 0	2	0.3
Gaylord	5	0	4	4	5	2	6	26	3.7
Hancock	20	4	0	24	10	25	0	83	11.9
Houghton	0	2	1	1	2	0	0	6	0.9
Iron Mountain	4	8	3	5	6	4	4	34	4.9
L Anse	1	1	. 2	1	2	2	2	11	1.6
Mackinaw City	1	1	1	0	0	2	0	5	0.7
Manistee	1	3	3	1	0	. 2	2	12	1.7
Marquette	18	22	16	22	25	17	11	131	18.7
Menominee	8	7	13	26	29	18	14	112	16.4
Mt. Pleasant	NA	NA	NA	NA	NA	NA	NA.	119	17.0
Newberry	1	0	1	2	4	0	0	8	1.1
Niles	10	1	$\overline{1}$	5	11	ī	7	36	5.1
Petoskey	8	1	2	5	5	5	2	28	4.0
Port Huron	14	10	10	19	38	17	16	124	17.7
Sault Ste. Marie	19	12	7	8	16	5	11	78	11.1
Traverse City	35	10	. 20	23	20	12	23	143	20.4
TOTAL	1,960	1,566	1,556	1,898	3,489	1,943	1,705	14,233	2,033.3

Notes: 1/Station is not open on Sundays. Passengers buy tickets from driver.

2/Monday and Tuesday surveys conducted on June 6 and June 7 respectively. Wednesday through Sunday surveys

are for June 1 through June 5 respectively.

Weekly Ticket Sales

Tickets for many of the smaller stations were collected by day for the entire month of May. Table 7 shows the total weekly sales by station for each of the four weeks in May. Ticket sales by station varied from week to week. The variations were expected because of the relatively small number of tickets sold at the smaller stations. The overall weekly totals show, however, that ticket sales at the smaller stations on a statewide average were consistent ranging from 1,014 for the week of May 23-29 to 1,066 for the week of May 2-8, 1977.

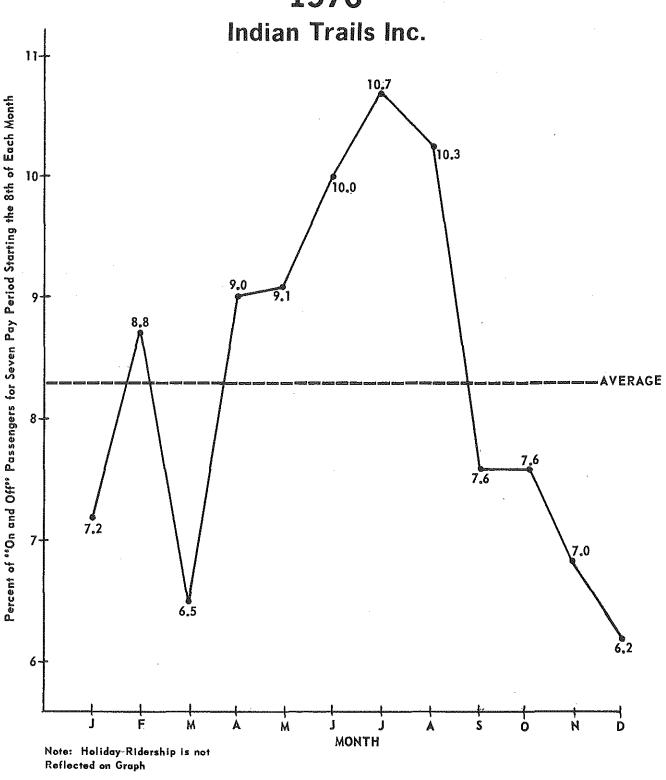
Monthly Ridership Trends

Data obtained from Indian Trails, Inc., and reflected in Figure 8, indicates that intercity bus travel is subject to seasonal trends characteristic of all travel modes. Figure 8 is based upon ridership data collected for a seven day period starting the eighth of each month of 1976. This seven day period was selected to avoid collecting data that was significantly influenced by holiday travel. The highest ridership period, as shown in Figure 8, occurs during the summer months peaking in July. Discussions with personnel from several intercity bus companies revealed that the next highest ridership period occurs in December due to the Christmas holiday season. The fourth of July holiday is also an important generator of intercity bus travel. This holiday is particularly significant to the intercity bus industry because it occurs during the peak summer ridership period. The first few months of the year are traditionally the lowest ridership months. The data in Figure 8 and the holiday ridership trends indicates that May should fairly well typlify an average month for intercity bus patronage. May avoids the low ridership period of January and February and the high ridership periods of the summer months and the Christmas holiday season.

Table 7. Intercity Bus Weekly Sales - Selected Smaller Stations, May 1977

Station	May 2-8	May 9-15	May 16-22	May 23-29	Total
Alpena	42	29	30	37	138
Bad Axe	6	2	5	7	20
Cadillac	39	59	91	35	224
Escanaba	111	104	100	133	448
Frankfort	3	. 2	7	7	1.9
Gaylord	31	26	26	31	114
Hancock	117	83	104	57	361
Houghton	4	6	17	~12	39
Iron Mountain	23	34	48	24	129
L'Anse	10	11	8	8	37
Mackinaw City	14	5	14	18	51
Manistee	18	12	8	14	52
Marquette	93	131	102	135	461
Menominee	101	112	125	99	437
Newberry	10	8	8	8	34
Niles	54	36	27	34	151
Petoskey	22	28	28	28	106
Sault Ste. Marie	76	78	72	90	316
Traverse City	168	143	107	142	560
TOTAL	1,066	1,033	1,049	1,014	4,162

INTERCITY BUS MONTHLY RIDERSHIP TRENDS 1976



Ticket Sales and Actual Ridership

The number of tickets sold at a particular station on a given day cannot be directly related to the number of passengers served by that station on the same day. Tickets can be purchased in advance. Also a passenger can purchase a round trip ticket. Advance purchase of tickets should not significantly affect the accuracy of the ticket survey for any given day since tickets purchased on previous days will tend to be discounted by tickets purchased that day for a trip to be taken at a later date. The ticket survey did not include the second trip of a round trip ticket. Table 8 includes data obtained from selected stations concerning the number and percent of round trip ticket sales. The Detroit station had the largest number (1,616) and highest percentage (33.2%) of round trips. The remaining stations had an overall average of 21.8 percent round trips.

Assuming a completely random distribution of round trip destination, the ticket survey should be increased by approximately 22-30 percent to more accurately account for total person trips.

Trip Destination

Table 9 shows the average number of daily ticket sales by major destinations for each of the 36 intercity bus stations. Approximately 66 percent of the total 2,033 average daily ticket sales at all stations had a Michigan destination while 34 percent had an out-of-state destination. Detroit was the major in-state destination accounting for 227 trip destinations followed by Ann Arbor (111), Grand Rapids (84), Flint (82), East Lansing (74), Lansing (73), and Kalamazoo (68). The largest out-of-state destination was Chicago with 116 trip destinations. The Detroit station accounted for 406 out-of-state destinations or 58 percent of all out-of-state destinations.

Table 8. Intercity Bus Survey - Round Trip Tickets, May 1977

Station	9 Mon	10 Tues	11 Wed	12 Thur	13 Fri	14 Sat	15 Sun	Total
Detroit			·					
Number	213	181	201	203	432	243	143	1,616
Percent	29.3	50.3	35.3	34.7	41.5	36.3	21.2	33.2
Ypsilanti								
Number	18	13	17	16	23	20	N/A	107
Percent	25.0	21.7	24.3	21.1	18.7	29.0		22.8
Ann Arbor								
Number	17	16	17	16	32	7	12	117
Percent	22.4	19.3	21.8	15.5	31.4	12.3	10.1	18.9
Lansing								
Number	N/A	11	14	19	66	22	6	138
Percent		17.7	25.9	21.8		29.7	6.5	24.3
Marquette								
Number	3	3	3	4	4	3	2	22
Percent	16.7	13.6	18.8	18.2	16.0	17.7	18.2	16.8
Iron Mountain				•				
Number	0	3	1	0	1	0	0	5
Percent	0.0	37.5	33.3	0.0	16.7	0.0	0.0	15.2
Menominee								
Number	5	1	5	13	8	5	2	39
Percent	62.5	14.3	38.5		27.5	27.8	14.3	34.8
Marquette	·							
Number	3	3	3	4	4	3	2	22
Percent	16.7	13.6	18.8	18.2	16.0	17.7	18.2	16.8
TOTAL	0.50		0.11			000	4 4 77	0.000
Number	259	231	261	275	570	303	167	2,066
Percent	28.1	26.8	31.8	29.8	36.8	32.7	18.1	29.8
TOTAL (without		•						
Number	46	50	60	72	138	60	24	450
Percent	23.5	18.9	19.4	21.3	27.3	23.5	9.6	21.8

Source: Mass Transportation Planning Section, Michigan Department of State Highways and Transportation.

Table 9. Intercity Ticket Survey - Summary of Major Average Daily Trip Origins and Destinations (May 9-15, 1977) $\frac{1}{2}$

										то						· · · · · · · · · · · · · · · · · · ·				
										10						····				
- FROM	Ann Arbor	Battle Creek	Bay City	Detroit	East Lansing	Flint	Grand Rapids	Jackson	Kalamazoo	Lansing	Muskegon	Niles	Saginaw	Ypsilanti	Other Michigan	Chicago	Cleveland	Toledo	Other Non-Michigan	TOTAL
Ann Arbor Battle Creek Bay City Detroit East Lansing Flint Grand Rapids Jackson Kalamazoo Lansing Muskegon Niles Saginaw Ypsilanti Alpena Bad Axe Big Rapids Cadillac	2.0 0.3 56.0 11.3 2.7 5.9 5.9 4.4 4.1 0.6 0.1 1.0 12.5 0.4 0.0 0.1	1.0 0.2 4.6 4.0 1.4 2.1 5.9 9.0 3.1 0.0 0.6 0.2 0.1 0.0 0.0 0.0	0.7 0.1 3.4 0.4 2.1 0.3 0.0 0.1 1.1 0.0 4.6 0.3 0.0 0.0 0.3	34.1 ¹ 27.6	5.0 3.3 0.2 25.0 7.7 11.0 1.1 6.4 0.3 5.0 0.1 4.0 7.7 0.0 0.1 0.3	1.9 1.0 29.3 17.0 3.1 1.4 2.9 4.6 2.9 0.0 7.7 1.0		0.4 0.4	10.7 0.3 8.6 9.0 3.4 14.4 1.0 4.3 2.3 0.1 1.1 0.7 0.0 0.0 1.3	0.0 0.0 0.4	0.0	0.0 0.0 0.0 0.0 0.0 0.3 0.0 0.0 0.0	1.4 0.9 2.7 11.3 1.7 5.3 1.0 0.0 1.0 0.7 0.7 0.7 0.0 0.1	4.7 0.6 0.0 30.7 1.6 0.1 0.4 1.7 0.6 0.6 0.1 0.0 0.0 0.0	19.34 33.0 8.2 52.6 83.3 23.0 42.2 11.0 41.4 21.9 8.3 0.6 8.1 12.8 1.4 0.1 2.4 2.9	2.4 0.7 0.3 46.0 4.1 7.0 12.9 1.3 5.1 2.4 4.1 0.6 3.9 1.3 0.0 0.4	1.3 0.4 0.0 37.1 0.3 0.1 0.4 0.0 0.4 0.1 0.0 0.3 0.5 0.0 0.0 0.0	0.3 0.7 0.0 33.0 0.3 1.4 0.6 0.9 0.3 0.9 0.3 0.0 0.1	13.9 9.5 2.93 289.9 5.4 28.4 33.4 5.5 10.5 14.2 9.5 2.3 11.6 6.9 0.7 0.0 0.5 0.2	94.9 93.4 21.2 695.0 196.6 125.3 157.6 51.0 112.4 90.1 53.0 5.1 56.6 78.3 4.1 0.3 6.3 8.1
Escanaba Frankfort Gaylord Hancock Houghton Iron Mountain	0.1 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.1 0.0 0.1	0.7 0.0 0.3 0.6 0.1	0.0 0.0 0.3 0.0 0.0	0.0 0.1 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.3	0.0 0.0 0.0	0.3 0.1 0.0		0.0 0.0	0.0 0.0 0.4 0.1 0.0	0.0 0.0 0.1 0.0 0.0	6.0 0.0 1.7 8.6 0.1 2.4	1.3 0.0 0.0 0.3 0.0	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	5.3 0.0 0.4 1.7 0.6 2.0	14.9 0.3 3.7 11.9 0.9 4.9

Table 9. Intercity Ticket Survey - Summary of Major Average Daily Trip Origins and Destinations (May 9-15, 1977) (con't)

	 								· · · · · · · · · · · · · · · · · · ·	то	·									
FROM	Ann Arbor	Battle Creek	Bay City	Detroit	East Lansing	Flint	Grand Rapids	Jackson	Kalamazoo	Lansing	Muskegon	Niles	Saginaw	Ypsilanti	Other Michigan	Chicago	Cleveland	Toledo	Other Non-Michigan	TOTAL
L'Anse	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.9	0.3	0.0	0.0	0.3	1.6
Manistee	0.1	0.0	0.0	0.1	0.0	0.1	0.4	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0				ſ	
Marquette	0.0	0.0	0.0	0.4	0.1					0.1		0.0			7.1		0.0		1	
Menominee	0.0	0.0		1	0.0	1 1				0.0		0.0		0.0	0.7				1	l
Mt. Pleasant	0.9	0.1	0.0	5.3						2.1		0.0			4.2			1	J	
Newberry	0.0	0.0		0.0					5 I	i		0.0	1 1			1		1		
Petoskey	0.1	0.0	0.0					0.3				0.0							1	l
Port Huron	0.0	0.0		8.0	0.4							0.0		0.0					5	l
Sault Ste. Marie	0.4	0.1	0.7	0.7								0.0			3.3			•	,	
Traverse City	1.3	0.0	0.6									0.0			7.3					
Mackinaw City	0.0	0.0		i i			1					0.0			0.6				1	l .
Benton Harbor	0.6	0.4	0.0	2.4	1.1	1.0	2.3	0.0	5.7	1.0	0.7	0.6	0.1	0.3	2.8	17.0	0.0	0.1	11.2	47.0
TOTAL	111.1	32.8	16.2	227.3	74.1	82.1	83.8	45.0	68.2	72.7	26.9	2.0	28.2	41.9	423.3	116.2	41.0	39.6	500.4	2,033.3
<u> </u>									L <u>-</u>			L				l				

Notes: 1/The sum of the figures will not necessarily add to the total due to rounding.

^{2/}Survey conducted June 1 through June 7, 1977.

^{3/}Major out-of-state destinations were Ohio - 47.3, Indiana - 23.9, Southern States - 94.7 and Eastern States 32.4.

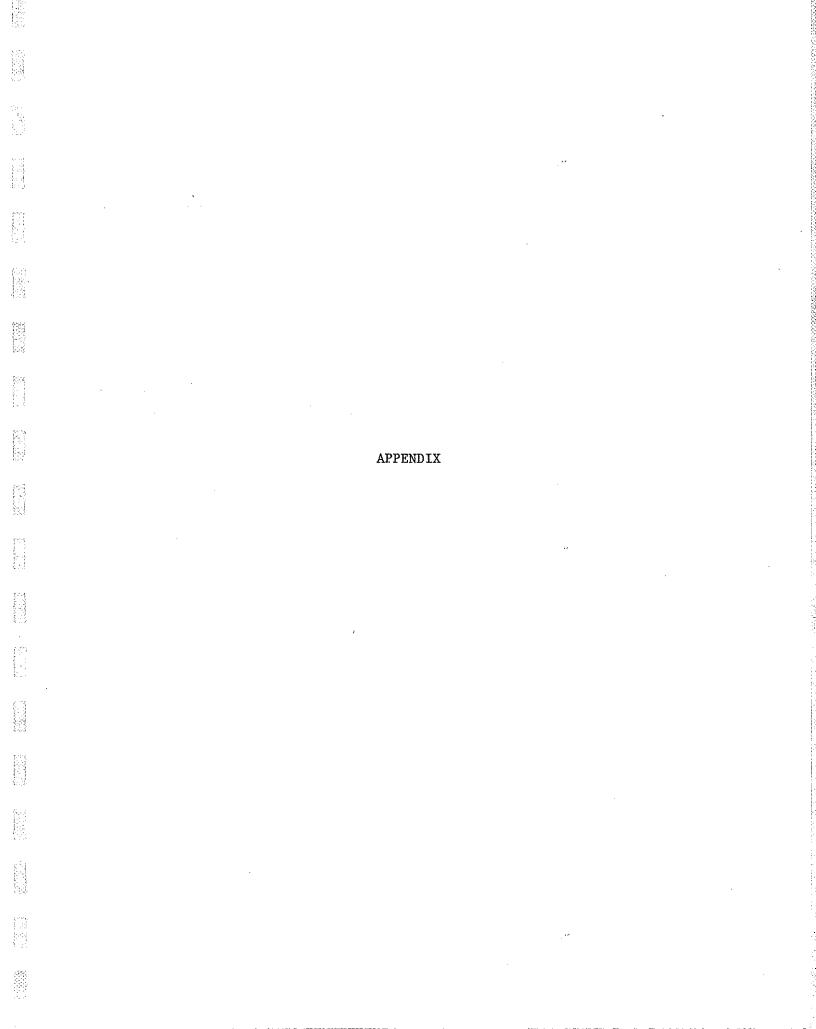
 $[\]frac{1}{4}$ /Fort Custer accounted for 19.7 of the "Other Michigan" trip destinations.

The top ten Michigan city pairs in terms of daily intercity bus origindestinations had in excess of 20 tickets sold for trips between them as shown in the following table.

Table 10. Average Daily Number of Trips Between Ten Highest City Pairs

City Pairs	Trips Between Cities
Detroit-Ann Arbor	79.1
Detroit-Ypsilanti	68.2
Detroit-East Lansing	59.1
Detroit-Flint	56.9
Detroit-Lansing	41.6
Detroit-Grand Rapids	35.6
Detroit-Jackson	27.7
East Lansing-Flint	24.7
Grand Rapids-Kalamazoo	23.8
East Lansing-Grand Rapids	23.1

Appendix D includes a sample table and map for the Detroit station outlining the specific data available for each of the 36 surveyed stations. If you desire this information for other stations, please contact the Mass Transportation Planning Section.





MICHIGAN INTERCITY BUS SURVEY

(1)		_	(6)

The Michigan Department of State Highways and Transportation is conducting this survey to plan future improvements in intercity bus service. Will you please take a few moments and fill out the following questionnaire. This data will be kept in strictest confidence and will only be used for statistical analysis. PLEASE answer the first two questions by PRINTING THE CITY AND STATE NAMES in the squares provided. USE ONE SQUARE FOR EACH LETTER, SKIP A SQUARE between words. Print only the FIRST FOUR LETTERS OF THE STATE NAME. 1. At what city did you begin your bus trip? City (or nearest city) 2. At what city will you end your bus trip? City (or nearest city) (39) State (42) 3. How did you get to this bus? (check only one) (47-50) 7. How many times in the past 12 months have you ridden on a bus between cities? (IF EXACT NUMBER OF TIMES IS NOT KNOWN, PLEASE 1 walk 5 local bus or rapid transit GIVE YOUR BEST ESTIMATE.) automobile 6 commuter train Number of Times 3 taxi 7 AMTRAK train (51) 8. What is your occupation? (Check only one) 6 student (other than college) 8 other 1 professional/ technical/ a connecting intercity bus managerial How will you get to where you are going after leaving this 2 craftsman/laborer 7 student (college) bus? (check only one) 3 service/sales 1 walk 5 local bus or rapid transit office/clerical unemployed automobile commuter train 5 homemaker 10 other 3 axi AMTRAK train (52) 9. What is your approximate family income range before a connecting other intercity bus taxes? (College students please answer for your legal residence) (check only one) (45) 5. What is the purpose of your trip? (check only one) 1 less than \$2,999 1 work 4 visit friends or relatives \$3,000 - \$5,999 5 \$12,000 - \$14,999 shopping 5 vacation 3 [\$6,000 - \$8,999 6 \$15,000 - \$24,999 personal 6 other social or recreational 7 \$25,000 or more 7 other (53) 10. What is your sex? How many personal car or truck type vehicles are owned or leased (more than 30 days) by you, your spouse or a relative 1 male 2 female of either living as a family in one household? (College students please answer for your legal residence.) (Check only one) (54)11. What is your age range? (check only one) 1 none 3 2 vehicles 1 7 or under 4 40-49 years 2 1 vehicle 4 3 or more vehicles 5 50-64 years 2 18-29 years

6 65 years or older

30 - 39 years

APPENDIX B

INTERCITY BUS SURVEY FORM DISTRIBUTION

Hand Out			Form	
Station	<u>Corridor</u>	<u>Date</u>	Numbers	<u>Total</u>
Jackson	Ann Arbor-Jackson	May 10 Tuesday	2001-2068	68
Jackson	Ann Arbor-Jackson	May Il Wednesday	2069-2129	61
Ann Arbor	Ann Arbor-Jackson	May 10 Tuesday	1501-1544	VI.
Ann Arbor	Ann Arbor-Jackson	May 10 Tuesday .	1551-1569	63
Ann Arbor	Ann Arbor-Jackson	May 11 Wednesday	1570-1645	. 76
		1, 11	20,0 20,0	, -
Toledo	Toledo-Detroit	May 16 Monday	4205-4439	234
Toledo	Toledo-Detroit	May 17 Tuesday	4440-4516	77
Toledo (Trailways)	Toledo-Detroit	May 17 Tuesday	7 5701-5715	15
Detroit	Toledo-Detroit	May 16 Monday	2569-2666	
Detroit	Toledo-Detroit	May 16 Monday	2669-2793	222
Detroit	Toledo-Detroit	May 17 Tuesday	2794-2817	
Detroit	Toledo-Detroit	May 17 Tuesday	2970-2994	49
Detroit (Trailways)	Toledo-Detroit	May 17 Tuesday	3700-3708	9
Detroit	East Lansing-Detroit-Flint	May 12 Thursday	2130-2314	185
Detroit	East Lansing-Detroit-Flint	May 13 Friday	2431-2499	707
Detroit	East Lansing-Detroit-Flint	May 13 Friday	2315-2371	
Detroit	East Lansing-Detroit-Flint	May 13 Friday	2373-2430	
Detroit	East Lansing-Detroit-Flint	May 13 Friday	2500-2568	253
East Lansing	East Lansing-Detroit-Flint	May 12 Thursday	0200-0373	
East Lansing	East Lansing-Detroit-Flint	May 12 Thursday	0400-0500	275
East Lansing	East Lansing-Detroit-Flint	May 13 Friday	0501-0884	213
East Lansing	East Lansing-Detroit-Flint	May 13 Friday	0374-0399	
East Lansing	East Lansing-Detroit-Flint	May 13 Friday	0926-0986	471
		•		
Flint	Langing-Detroit-Flint	May 12 Thursday	4025-4037	
Flint	Lansing-Detroit-Flint	May 12 Thursday	0010-0173	177
Flint	Lansing-Detroit-Flint	May 13 Friday	0174-0196	
Flint	Lansing-Detroit-Flint	May 13 Friday	4038-4204	190
	_			
Traverse City	Traverse City-Cadillac	May 10 Tuesday	0001-0002	2.
Traverse City	Traverse City-Cadillac	May 11 Wednesday	0003-0009	7
Cadillac	Traverse City-Cadillac	May 10 Tuesday	4001-4019	19
Cadillac	Traverse City-Cadillac	May 11 Wednesday	4 : 20-4024	5
Benton Harbor	Benton Harbor-Kalamazoo-Grand Rapids	May 18 Wednesday	4517-4616	100
Kalamazoo	Benton Harbor-Kalamazoo-Grand Rapids	May 18 Wednesday	0884-0908	
Kalamazoo Kalamazoo	Benton Harbor-Kalamazoo-Grand Rapids Benton Harbor-Kalamazoo-Grand Rapids	May 18 Wednesday May 18 Wednesday	0910-0924 0987-1028	82
Grand Rapids	Benton Harbor-Kalamazoo-Grand Rapids	May 18 Wednesday	2818-2864	02
Grand Rapids	Benton Harbor-Kalamazoo-Grand Rapids	May 18 Wednesday	2995-2998	51
	serior nerser intramesor ordine mpigo	in to monicoup	2333 2330	34
Post House	Post House-Detroit	May 23 Monday	4617-4704	88
Post House	Post House-Detroit	May 24 Tuesday	4713-4793	81
Detroit	Post House-Detroit	May 23 Monday	1646-1710	65
Detroit	Post House-Detroit	May 24 Tuesday	1711-1784	74
Escanaba	Escanaba-Marquette	May 24 Tuesday	1200-1229	30
Escanaba	Escanaba-Marquette	May 25 Wednesday	1230-1272	43
Marquette	Escanaba-Marquette	May 24 Tuesday	1029-1066	38
Subtotal				2 110
SUDLOCAL	•			3,110
n -114-14	w	Town 22 Medagaday	1016 1065	20
Republic Mine	Negaunee-Ishpeming 1/ Negaunee-Ishpeming	June 22 Wednesday June 23 Thursday	4846-4865 4881-4893	20
Republic Mine Republic Mine	Negaunee-Ishpeming	June 23 Thursday	4938-4960	36
webdotic time	• • •	Same 25 Indiaday	47,50 47,50	30
Republic Mine	L'Anse-Baraga 1/	June 22 Wednesday	4827-4845	19
Republic Mine	L'Anse-Baraga	June 23 Thursday	4894-4907	
Republic Mine	L'Anse-Baraga	June 23 Thursday	4961-4977	
Republic Mine	L'Anse-Baraga	June 23 Thursday	1279-1289	42
r	-	·		
Republic Mine	Shubat Transit	June 22 Wednesday	4866-4880	15
Republic Mine	Shubat Transit	June 23 Thursday	4907-4927	
Republic Mine	Shubat Transit	June 23 Thursday	1290-1318	50
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TOTAL				-,

 $[\]frac{1}{Buron}$ Bay Transit

APPENDIX C

NOTE: All percentages are included in parentheses. Numbers preceding the parentheses are the total number of returned questionnaires having that particular response. The number and percent of no responses are also included for each question.

SUMMARY FOR ALL DAYS AT JACKSON-ANN ARROR

218 SURVEYS

3 ₀	HOW DID YOU GET TO THIS	BUS?	
	1(0%)NO RESPONSE	33(15%)WALK	104(48%) AUTOMORILE
	40(18%)TAXT	12(6%) INTERCITY BUS	22(10%)LOCAL BUS
	O(0%)COMMUTER TRAIN	OC 0%) AMTRAK TRAIN	6(3%)OTHER

- 4. HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS?

 3(1%)NO RESPONSE 31(14%)WALK 89(41%)AUTOMOBILE:

 45(21%)TAXI 13(6%)INTERCITY BUS 29(13%)LOCAL BUS

 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 8(4%)OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?

 3 (1%)NO RESPONSE 19 (9%)WORK 2 (1%)SHOPPING 60 (28%)PERS. BUSINESS 85 (39%)VISIT FRIENDS/ 10 (5%)VACATION 6 (3%)OTH 50 CIAL/REC. RELATIVES 33 (15%)OTHER
- 6. HOW MANY CAR OF TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD?
 6(3%)NO RESPONSE 93(43%)NONE 64(29%)1 VEHICLE
 31(14%)2 VEHICLES 24(11%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?

 35(16%)NO RESPONSE 144(66%) 0= 9 TIMES 16(7%)10=19 TIMES
 14(6%)20=29 TIMES 4(2%)30=39 TIMES 1(0%)40=49 TIMES
 0(0%)50=59 TIMES 1(0%)60=69 TIMES 0(0%)70=79 TIMES
 0(0%)80=89 TIMES 0(0%)90=99 TIMES 3(1%)100+ TIMES
- 8. WHAT IS YOUR OCCUPATION?

 4(2%)NO REPONSE

 16(7%)CRAFTSMAN/LABORER

 9(4%)OFFICE/CLERICAL

 14(6%)STUDENT(NOT COLLEGE)

 24(11%)PETIRED

 25(11%)OTHER

 27(12%)PROFESSIONAL/TECHNICAL/MANAGERIA

 9(4%)SERVICE/SALES

 30(14%)HOMEMAKER

 39(18%)STUDENT(COLLEGE)

 21(10%)UNEMPLOYED
- 9a WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?
 28(13%)NO RESPONSE 25(11%)\$2,999 OR LESS 48(22%)\$ 3,000 5,999
 33(15%)\$ 6,000 8,999 27(12%)\$ 9,000 11,999 14(6%)\$12,000 14,999
 21(10%)\$15,000 24,999 22(10%)\$25,000 4
- 10. WHAT IS YOUR SEX?
 11(5%)NO RESPONSE 99(45%)MALE 108(50%)FEMALE
- 11. WHAT IS YOUR AGE RANGE?

 4(2%)NO PEPONSE 10(5%)17 OR UNDER 106(49%)18=29 YEARS
 26(12%)30=39 YEARS 20(9%)40=49 YEARS 32(15%)50=64 YEARS
 20(9%)65+ YEARS

SUMMARY FOR ALL DAYS AT DETROIT-TOLEDO

	416 SURVEYS
3 ,	HOW DID YOU GET TO THIS BUS? 5 (1%)ND RESPONSE 19 (5%)WALK 272(65%)AUTOMOBILE 55(13%)TAXI 22(5%)INTERCITY BUS 27 (6%)LOCAL BUS 0 (0%)COMMUTER TRAIN 0 (0%)AMTRAK TRAIN 16 (4%)OTHER
4 g	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 14(3%)NO RESPONSE 14(3%)WALK 218(52%)AUTOMOBILE, 105(25%)TAXI 13(3%)INTERCITY BUS 39(9%)LOCAL BUS 0(0%)COMMUTER TRAIN 1(0%)AMTRAK TRAIN 12(3%)OTHER
5 ,	WHAT IS THE PURPOSE OF YOUR TRIP? 18(4%)NO RESPONSE 30(7%)WORK 4(1%)SHOPPING 58(14%)PERS. BUSINESS 226(54%)VISIT FRIENDS/ 29(7%)VACATION 7(2%)OTH SOCIAL/REC. RELATIVES 44(11%)OTHER
6 .	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 37(9%)NO RESPONSE 154(37%)NONE 124(30%)1 VEHICLE 77(19%)2 VEHICLES 24(6%)3+ VEHICLES
7 .	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 118(28%)NO RESPONSE
S e	WHAT IS YOUR OCCUPATION? 31(7%)NO REPONSE 25(6%)CRAFTSMAN/LABORER 15(4%)OFFICE/CLERICAL 16(4%)STUDENT(NOT COLLEGE) 71(17%)RETIRED 44(11%)OTHER 39(9%)PROFESSIONAL/TECHNICAL/MANAGERIA 17(4%)SERVICE/SALES 98(24%)HOMEMAKER 26(6%)STUDENT(COLLEGE) 34(8%)UNEMPLOYED
9 2	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 92(22%)NO RESPONSE 66(16%)\$2,999 OR LESS 64(15%)\$ 3,000 5,999 53(13%)\$ 6,000 = 8,799 41(10%)\$ 9,000 = 11,999 38(9%)\$12,000 = 14,999 45(11%)\$15,000 = 24,999 17(4%)\$25,000 +
l,0°e	WHAT IS YOUR SEX? 22(5%)NO RESPONSE 132(32%)MALE 262(63%)FEMALE

16(4%)17 OR UNDER

48(12%)40=49 YEARS

122(29%)18=29 YFARS

91(22%)50=64 YEARS

1

110

WHAT IS YOUR AGE RANGE?

20 (5%) NO REPONSE

66 (16%) 65+ YEARS

53(13%)30=39 YEARS

SUMMARY FOR ALL DAYS AT TR.CITY=CADILLAC

24 SURVEYS

	24 SURVEYS
3 e	HOW DID YOU GET TO THIS BUS? O(0%)NO RESPONSE 2(8%)WALK 14(58%)AUTOMOBILE 4(17%)TAXI 2(8%)INTERCITY BUS 2(8%)LOCAL BUS O(0%)COMMUTER TRAIN O(0%)AMTRAK TRAIN O(0%)OTHER
ll g	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? O(0%)NO RESPONSE 3(13%)WALK 16(67%)AUTOMOBILE' 2(8%)TAXI 1(4%)INTERCITY BUS O(0%)LOCAL BUS O(0%)COMMUTER TRAIN O(0%)AMTRAK TRAIN 2(8%)OTHER
5 ,	WHAT IS THE PURPOSE OF YOUR TRIP? 0(0%)NO RESPONSE 2(8%)WORK 0(0%)SHOPPING 4(17%)PERS, RUSINESS 15(63%)VISIT FRIENDS/ 1(4%)VACATION 0(0%)OTH SOCIAL/REC. RELATIVES 2(8%)OTHER
6.	HOW MANY CAR OR TRUCK TYPE VFHICLES ARE OWNED BY YOUR HOUSEHOLD? 2(8%)NO RESPONSE 6(25%)NONE 8(33%)1 VEHICLE 5(21%)2 VEHICLES 3(13%)3+ VEHICLES
7 s	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 5(21%)NO RESPONSE 18(75%) 0 9 TIMES 0(0%)10=19 TIMES 0(0%)20=29 TIMES 1(4%)30=39 TIMES 0(0%)40=49 TIMES 0(0%)50=59 TIMES 0(0%)60=69 TIMES 0(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 0(0%)100+ TIMES
8 9	WHAT IS YOUR OCCUPATION? 1 (4%)NO REPONSE 1 (4%)CRAFTSMAN/LABORER 0 (0%)OFFICE/CLERICAL 1 (4%)STUDENT(NOT COLLEGE) 7 (29%)RETIRED 2 (8%)OTHER 3 (13%)PROFESSIONAL/TECHNICAL/MANAGERIA 0 (0%)SERVICE/SALES 5 (21%)HOMEMAKER 2 (8%)STUDENT(COLLEGE) 2 (8%)UNEMPLOYED
Ģ	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 7(29%)NO RESPONSE
10.	WHAT IS YOUR SEX? 1(4%)NO RESPONSE 12(50%)MALE 11(46%)FFMALE

2 (8%)17 OR UNDER

3(13%)40=49 YFARS

8(33%)18=29 YEARS

3(13%)50-64 YEARS

WHAT IS YOUR AGE RANGE?

1 (4%) NO REPONSE

1 (4%)30-39 YEARS

6(25%)65+ YEARS

SUMMARY FOR ALL DAYS AT DETROIT CHICAGO

	226 SURVEYS
3.8	HOW DID YOU GET TO THIS BUS? 4(2%)NO RESPONSE 29(13%)HALK 113(50%)AUTOMOBILE 29(13%)TAXI 12(5%)INTERCITY BUS 28(12%)LOCAL BUS 8(4%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 3(1%)OTHER
4 8	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 4(2%)NO RESPONSE 15(7%)WALK 99(44%)AUTOMOBILE' 42(19%)TAXI 9(4%)INTERCITY BUS 45(20%)LOCAL BUS 5(2%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 7(3%)OTHER
	WHAT IS THE PURPOSE OF YOUR TRIP? 2(1%)NO RESPONSE 26(12%)WORK 0(0%)SHOPPING 34(15%)PERS, BUSINESS 100(44%)VISIT FRIENDS/ 37(16%)VACATION 3(1%)OTH SQCIAL/REC, RELATIVES 24(11%)OTHER
6.	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 14(6%)NO RESPONSE 78(35%)NONE 62(27%)1 VEHICLE 49(22%)2 VEHICLES 23(10%)3+ VEHICLES
*	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 68(30%)NO RESPONSE 121(54%) 0= 9 TIMES 18(8%)10=19 TIMES 7(3%)20=29 TIMES 6(3%)30=39 TIMES 0(0%)40=49 TIMES 0(0%)50=59 TIMES 0(0%)60=69 TIMES 1(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 5(2%)100+ TIMES
8 €	WHAT IS YOUR OCCUPATION? 7(3%)NO REPONSE 12(5%)CRAFTSMAN/LABORER 17(8%)OFFICE/CLERICAL 12(5%)STUDENT(NOT COLLEGE) 36(16%)RETIRED 16(7%)OTHER 45(20%)PROFESSIONAL/TECHNICAL/MANAGERIA 8(4%)SERVICE/SALES 32(14%)HOMEMAKER 27(12%)STUDENT(COLLEGE) 14(6%)UNEMPLOYED
9 8	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 44(19%)NO RESPONSE 32(14%)\$2,999 OR LESS 23(10%)\$ 3,000= 5,999 21(9%)\$ 6,000= 8,999
3 O g	WHAT IS YOUR SEX? 10(4%)NO RESPONSE R8(39%)MALE 128(57%)FEMALE

#1. WHAT IS YOUR AGE RANGE?

8 (4%) NO REPONSE 6 (3%) 17 OR UNDER 83 (37%) 18-29 YEARS
41 (18%) 30-39 YEARS 24 (11%) 40-49 YEARS 36 (16%) 50-64 YEARS
28 (12%) 65+ YEARS

4

SUMMARY FOR ALL DAYS AT ESCANABA-MARQUETTE

	101 SURVEYS
3 ,	HOW DID YOU GET TO THIS BUS? 0 (0%)NO RESPONSE 10(10%)WALK 64(63%)AUTOMOBILE 11(11%)TAXI 4(4%)INTERCITY BUS 6(6%)LOCAL BUS 2 (2%)COMMUTER TRAIN 0 (0%)AMTRAK TRAIN 4(4%)OTHER
4 .	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? O(0%)NO RESPONSE 18(18%)WALK 45(45%)AUTOMOBILE 18(18%)TAXI 4(4%)INTERCITY BUS 7(7%)LOCAL BUS 1(1%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 8(8%)OTHER
5 ,	WHAT IS THE PURPOSE OF YOUR TRIP? 2(2%)NO RESPONSE
6 .	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 3(3%)NO RESPONSE 40(40%)NONE 32(32%)1 VEHICLE 22(22%)2 VEHICLES 4(4%)3+ VEHICLES
7 ,	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY RUS? 26(26%)NO RESPONSE 60(59%) 0= 9 TIMES 8(8%)10=19 TIMES 3(3%)20=29 TIMES 1(1%)30=39 TIMES 1(1%)40=49 TIMES 0(0%)50=59 TIMES 0(0%)60=69 TIMES 0(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 2(2%)100+ TIMES
8 ,	WHAT IS YOUR OCCUPATION? 3(3%)NO REPONSE 1(1%)CRAFTSMAN/LABORER 5(5%)OFFICE/CLERICAL 3(3%)STUDENT(NOT COLLEGE) 17(17%)RETIRED 8(8%)OTHER 11(11%)PROFESSIONAL/TECHNICAL/MANAGERIA 7(7%)SERVICE/SALES 14(14%)HOMEMAKER 29(29%)STUDENT(COLLEGE) 3(3%)UNEMPLOYED
9 ,	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 15(15%)NO RESPONSE 19(19%)\$2,999 OR LFSS 20(20%)\$ 3,000 = 5,999 13(13%)\$ 6,000 = 8,999 10(10%)\$ 9,000 = 11,999 9(9%)\$12,000 = 14,999 10(10%)\$15,000 = 24,999 5(5%)\$25,000 +
10 .	WHAT IS YOUR SEX? 3(3%)NO RESPONSE 42(42%)MALE 56(55%)FEMALE

0 N BOARD INTERCITY RUS SURVEY

SUMMARY FOR ALL DAYS AT KALAMAZOO®B HARBOR

	97 SURVEYS	
3 a	HOW DID YOU GET TO THIS BUS? 2(2%)NO RESPONSE Q(9%)WALK 8(8%)TAXT 7(7%)INTERCITY BUS 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN	SB(60%)AUTOMOBILE 10(10%)LOCAL BUS 3(3%)OTHER
4 0	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVIN 3(3%)NO RESPONSE 16(16%)WALK 11(11%)TAXI 4(4%)INTERCITY BUS 2(2%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN	54(56%)AUTOMOBILE 4(4%)LOCAL BUS
5 ,	WHAT IS THE PURPOSE OF YOUR TRIP? 3(3%)NO RESPONSE 8(8%)WORK 17(18%)PERS. BUSINESS 41(42%)VISIT FRIENDS/ 0(0%)OTH SOCIAL/REC. RELATIVES	12(12%)VACATION
6 a		YOUR HOUSEHOLD? 28(29%)1 VEHICLE
7 ,	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN 33 (34%) NO RESPONSE 44 (45%) 0 = 9 TIMES 1 (1%) 20 = 29 TIMES 2 (2%) 30 = 39 TIMES 0 (0%) 50 = 59 TIMES 0 (0%) 60 = 69 TIMES 0 (0%) 80 = 89 TIMES 0 (0%) 90 = 99 TIMES	12(12%)10=19 TIMES 3(3%)40=49 TIMES 0(0%)70=79 TIMES
8 8		DLLEGE)
9 8	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAX 19(20%)NO RESPONSE 15(15%)\$2,999 OR LESS 10(10%)\$ 6,000= 8,999 8(8%)\$ 9,000=11,999 10(10%)\$15,000=24,999 11(11%)\$25,000+	17(18%)\$ 3,000- 5,999
10,	WHAT IS YOUR SEX? 5(5%)ND RESPONSE 36(37%)MALE	56(58%)FEMALE
11,	WHAT IS YOUR AGE PANGE?	70///09349

8(A%)17 OR UNDER

9(9%)40=49 YEARS .

39(40%)18-29 YFARS

12(12%)50-64 YEARS

3(3%) NO REPONSE

17(18%)65+ YEARS

9(9%)30=39 YEARS

SUMMARY FOR ALL DAYS AT G.R. PRENTON HARBOR

	•	55 SURVEYS	
3 a	HOW DID YOU GET TO THIS R 1(2%)NO RESPONSE 5(9%)TAXI 0(0%)COMMUTER TRAIN	US? 2(4%)WALK 2(4%)INTERCITY BUS 3(5%)AMTRAK TRAIN	28(51%)AUTOMOBILE 12(22%)LOCAL BUS 2(4%)OTHER
4.	HOW WILL YOU GET TO YOUR O(0%)NO RESPONSE 8(15%)TAXI 1(2%)COMMUTER TRAIN	DESTINATION AFTER LEAVE 7(13%)WALK 7(13%)INTERCITY BUS 0(0%)AMTRAK TRAIN	ING THIS BUS? 29(53%)AUTOMOBILE' 0(0%)LOCAL BUS 3(5%)OTHER
5,	WHAT IS THE PURPOSE OF YOU 1(2%)NO RESPONSE 8(15%)PERS, BUSINESS 0(0%)OTH SOCIAL/PEC.	OUR TRIP? 5(9%)WORK 30(55%)VISIT FRIENDS/ RELATIVES	2(4%)SHOPPING 5(9%)VACATION 4(7%)OTHER
6.	HOW MANY CAR OR TRUCK TYP 1(2%)NO RESPONSE 7(13%)2 VEHICLES	19(35%)NONE	
7 e	HOW MANY TIMES IN THE PAS 17(31%)NO RESPONSE 0(0%)20-29 TIMES 0(0%)50-59 TIMES 0(0%)80-89 TIMES		10(18%)10=19 TIMES 0(0%)40=49 TIMES
8 6	WHAT IS YOUR OCCUPATION? O(0%)NO REPONSE 2(4%)CRAFTSMAN/LABORE O(0%)OFFICE/CLERICAL 2(4%)STUDENT(NOT COLL 18(33%)RETIRED 2(4%)OTHER	5(9%)PROFESSION 1(2%)SERVIÇE/S 12(22%)HOMEMAKER	OLLEGE)
9 s	WHAT IS YOUR APPROXIMATE 10(18%)NO RESPONSE 10(18%)\$ 6,000 = 8,999 14(25%)\$15,000 = 24,999	6(11%)\$2,999 OR LESS 7(13%)\$ 9,000=11,999	5(9%)\$ 3,000= 5,999
10,	WHAT IS YOUR SEX? 1(2%)NO RESPONSE	21(38%)MALE	33(60%)FEMALE

0 N BOARD INTERCITY SURVEY BUS

SUMMARY FOR ALL DAYS AT G.R. . KALAMAZOO

		37 SURVEYS	
3 @	HOW DID YOU GET TO THIS BU O(0%)NO RESPONSE 4(11%)TAXI O(0%)COMMUTER TRAIN	6(16%)WALK	14(38%)AUTOMOBILE 8(22%)LOCAL RUS 1(3%)OTHER
4 8	HOW WILL YOU GET TO YOUR D O(0%)NO RESPONSE 5(14%)TAXI 1(3%)COMMUTER TRAIN	ESTINATION AFTER LEAVING 5(14%)WALK OC 0%)INTERCITY BUS OC 0%)AMTRAK TRAIN	THIS BUS? 16(43%)AUTOMOBILE 9(24%)LOCAL BUS 1(3%)OTHER
5 ę	WHAT IS THE PURPOSE OF YOU 0 0%)NO PESPONSE 6(16%)PERS. BUSINESS 0(0%)OTH SOCIAL/REC.	5(14%)WORK 21(57%)VISIT FRIENDS/	1(3%)SHOPPING 2(5%)VACATION 2(5%)OTHER
6,	HOW MANY CAR OR TRUCK TYPE 1 (3%) NO RESPONSE 9 (24%) 2 VEHICLES	14(38%)NONE	
7 e	HOW MANY TIMES IN THE PAST 8(22%)NO RESPONSE 4(11%)20=29 TIMES 0(0%)50=59 TIMES 0(0%)80=89 TIMES	20(54%) 0= 9 TIMES 0(0%)30=39 TIMES 0(0%)60=69 TIMES	3(8%)10=19 TIMES 0(0%)40=49 TIMES 0(0%)70=79 TIMES
8 ,	WHAT IS YOUR OCCUPATION? O(0%)NO REPONSE 4(11%)CRAFTSMAN/LABORER 1(3%)OFFICE/CLERICAL O(0%)STUDENT(NOT COLLE 7(19%)RETIRED 3(8%)OTHER	3(8%)SERVICE/SA 4(11%)HOMEMAKER	-
9 6	WHAT IS YOUR APPROXIMATE F 1(3%)NO RESPONSE 3(8%)\$ 6,000= 8,999 5(14%)\$15,000=24,999	11(30%)\$2,999 OR LESS 3(8%)\$ 9,000=11,999	6(16%)\$ 3,000= 5,999
10 a	WHAT IS YOUR SEX? O(0%)NO RESPONSE	18(49%)MALE	19(51%)FEMALE
	11114 4 m 9 5 14 14 14 14 14 14 14 14 14 14 14 14 14		*

WHAT IS YOUR AGE RANGE? 11. O(0%)NO REPONSE 1 (3%) 17 OR UNDER 14(38%)18=29 YEARS 1(3%)30=39 YEARS 4(11%)40=49 YEARS 8(22%)50-64 YEARS 9(24%)65+ YEARS

SUMMARY FOR THU, MAY 12 AT E.LANSING.FLINT

107 SURVEYS

3. HOW DID YOU GET TO THIS	BUS?	
2(2%)NO RESPONSE	18(17%) WALK	64(60%) AUTOMOBILE
9(8%)TAXI	6(6%) INTERCITY BUS	5(5%)LOCAL BUS
O(0%)COMMUTER TRAIN	U(0%)AMTRAK TRAIN	3(3%)0THER

- 4. HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS?
 4(4%)NO RESPONSE 9(8%)WALK 48(45%)AUTOMOBILE *
 27(25%)TAXI 6(6%)INTERCITY BUS 4(4%)LOCAL BUS
 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 9(8%)OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?

 4(4%)NO RESPONSE 7(7%)WORK 1(1%)SHOPPING

 21(20%)PERS. BUSINESS 49(46%)VISIT FRIENDS/ 5(5%)VACATION

 2(2%)OTH SOCIAL/REC. RELATIVES 18(17%)OTHER
- 6. HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD?
 5(5%)NO RESPONSE 46(43%)NONE 19(18%)1 VEHICLE
 24(22%)2 VEHICLES 13(12%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?
 21(20%)NO RESPONSE 61(57%) 0** 9 TIMES 6(6%)10**19 TIMES
 6(6%)20**29 TIMES 3(3%)30**39 TIMES 4(4%)40**49 TIMES
 0(0%)50**59 TIMES 0(0%)60**69 TIMES 0(0%)70**79 TIMES
 0(0%)80**89 TIMES 0(0%)90**99 TIMES 6(6%)100** TIMES
- 8. WHAT IS YOUR OCCUPATION?

 3(3%)NO REPONSE
 3(3%)CRAFTSMAN/LABORER
 4(6%)OFFICE/CLERICAL
 10(9%)STUDENT(NOT COLLEGE)
 16(15%)PETIRED
 13(12%)OTHER

 12(11%)PROFESSIONAL/TECHNICAL/MANAGERIA
 12(11%)PROFESSIONAL/T
- 9. WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?
 15(14%)NO RESPONSE 20(19%)\$2,999 OR LESS 14(13%)\$ 3,000= 5,999
 16(15%)\$ 6,000= 8,999 10(9%)\$ 9,000=11,999 5(5%)\$12,000=14,999
 17(16%)\$15,000=24,999 10(9%)\$25,000+
- 10. WHAT IS YOUR SEX?
 2(2%)NO RESPONSE 38(36%)MALE 67(63%)FEMALE
- 11. WHAT IS YOUR AGE RANGE?

 3(3%)NO REPONSE 7(7%)17 OR UNDER 50(47%)18-29 YEARS
 11(10%)30=39 YEARS 10(9%)40-49 YEARS 12(11%)50=64 YEARS
 14(13%)65+ YEARS

SUMMARY FOR FRI. MAY 13 AT E.LANSING-FLINT

	147 SURVEYS
3.	HOW DID YOU GET TO THIS HUS? 1(1%)NO RESPONSE
4 e	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 2(1%)NO RESPONSE 20(14%)WALK 102(69%)AUTOMOBILE 9(6%)TAXI 2(1%)INTERCITY BUS 6(4%)LOCAL BUS 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 6(4%)OTHER
5 ,	WHAT IS THE PURPOSE OF YOUR TRIP? 2(1%)NO PESPONSE 8(5%)WORK 3(2%)SHOPPING 19(13%)PERS. BUSINESS 92(63%)VISIT FRIENDS/ 4(3%)VACATION 7(5%)OTH SOCIAL/REC. RELATIVES 12(8%)OTHER
6 ,	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 4(3%)NO RESPONSE
7 a	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 25(17%)NO RESPONSE 79(54%) 0= 9 TIMES 19(13%)10=19 TIMES 9(6%)20=29 TIMES 4(3%)30=39 TIMES 3(2%)40=49 TIMES 4(3%)50=59 TIMES 1(1%)60=69 TIMES 0(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 3(2%)100+ TIMES
8 .	WHAT IS YOUR OCCUPATION? 3(2%)NO REPONSE 4(3%)CRAFTSMAN/LABORER 7(5%)OFFICE/CLERICAL 21(14%)STUDENT(NOT COLLEGE) 7(5%)RETIRED 17(12%)OTHER 8(5%)PROFESSIONAL/TECHNICAL/MANAGERIA 4(3%)SERVICE/SALES 12(8%)HOMEMAKER 60(41%)STUDENT(COLLEGE) 4(3%)UNEMPLOYFO 4(3%)UNEMPLOYFO
9 e	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 29(20%)NO RESPONSE 20(14%)\$2,999 OR LESS 12(8%)\$3,000=5,999 14(10%)\$6,000=8,999 8(5%)\$9,000=11,999 15(10%)\$12,000=14,999 27(18%)\$15,000=24,999 22(15%)\$25,000+
[0.	WHAT IS YOUR SEX? 7(5%)NO RESPONSE 47(32%)MALE 93(63%)FEMALF

26(18%)17 OR UNDER

6 (4%) 40=49 YEARS

86(59%)18=29 YFARS

9(.6%)50=64 YEARS

WHAT IS YOUR AGE RANGE?

9(6%)30=39 YEARS

4(3%) NO PEPONSE

7(5%)654 YEARS

11.

SUMMARY FOR ALL DAYS AT E.LANSING FLINT

254 SURVEYS

3 .	HOW DID YOU GET TO THIS	BUS?	
	3(1%)NO RESPONSE	58(23%)WALK	138(54%) AUTOMOBILE
	17(7%) TAXT	8(3%) INTERCITY BUS	22(9%)LOCAL BUS
	O(0%)COMMUTER TRAIN	1 (0%) AMTRAK TRAIN	7(3%) OTHER
		•	

- 4. HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS?

 6(2%)NO RESPONSE 29(11%)WALK 150(59%)AUTOMOBILE 1

 36(14%)TAXI 8(3%)INTERCITY BUS 10(4%)LOCAL BUS 10(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 15(6%)OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?

 6(2%)NO RESPONSE 15(6%)WORK 4(2%)SHOPPING

 40(16%)PERS, BUSINESS 141(56%)VISIT FRIENDS/ 9(4%)VACATION

 9(4%)OTH SOCIAL/REC, RELATIVES 30(12%)OTHER
- 6. HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD?
 9(4%)NO RESPONSE 89(35%)NONE 53(21%)1 VEHICLE
 61(24%)2 VEHICLES 42(17%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?
 46(18%)NO RESPONSE 140(55%) 0= 9 TIMES 25(10%)10=19 TIMES.
 15(6%)20=29 TIMES 7(3%)30=39 TIMES 7(3%)40=49 TIMES
 4(2%)50=59 TIMES 1(0%)60=69 TIMES 0(0%)70=79 TIMES
 0(0%)80=89 TIMES 0(0%)90=99 TIMES 9(4%)100+ TIMES
- 8. WHAT IS YOUR OCCUPATION?

 6(2%)NO REPONSE
 7(3%)CRAFTSMAN/LABORER
 13(5%)OFFICE/CLERICAL
 31(12%)STUDENT(NOT COLLEGE)
 23(9%)RETIRED
 30(12%)OTHER

 20(8%)PROFESSIONAL/TECHNICAL/MANAGERIA
 7(3%)SERVICE/SALES
 29(11%)HOMEMAKER
 79(31%)STUDENT(COLLEGE)
 9(4%)UNEMPLOYED
- 9. WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?
 44(17%)NO RESPONSE 40(16%)\$2,999 OR LESS 26(10%)\$ 3,000= 5,999
 30(12%)\$ 6,000= 8,999 18(7%)\$ 9,000=11,999 20(8%)\$12,000=14,999
 44(17%)\$15,000=24,999 32(13%)\$25,000+
- 10, WHAT IS YOUR SEX?
 9(4%)NO RESPONSE 85(33%)MALE 160(63%)FEMALE

SUMMARY FOR ALL DAYS AT REPUBLIC MINE

168 SURVEYS

	168 SURVEYS
3 :	HOW DID YOU GET TO THIS BUS? O(0%)NO RESPONSE 70(42%)WALK 98(58%)AUTOMOBILE O(0%)TAXI O(0%)INTERCITY BUS O(0%)LOCAL BUS O(0%)COMMUTER TRAIN O(0%)AMTRAK TRAIN O(0%)OTHER
4 8	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? O(0%)NO RESPONSE 110(65%)WALK 58(35%)AUTOMOBILE' O(0%)TAXI O(0%)INTERCITY BUS O(0%)LOCAL BUS O(0%)COMMUTER TRAIN O(0%)AMTRAK TRAIN O(0%)OTHER
5 e	WHAT IS THE PURPOSE OF YOUR TRIP? 1(1%)NO RESPONSE 167(99%)WORK 0(0%)SHOPPING 0(0%)PERS, BUSINESS 0(0%)VISIT FRIENDS/ 0(0%)VACATION 0(0%)OTH SOCIAL/REC, RELATIVES 0(0%)OTHER
6,	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 1(1%)NO RESPONSE 12(7%)NONE #4(26%)1 VEHICLE 90(54%)2 VEHICLES 21(13%)3+ VEHICLES
7 :	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 9(5%)ND RESPONSE 0(0%) 0= 9 TIMES 2(1%)10=19 TIMES 2(1%)20=29 TIMES 0(0%)30=39 TIMES 2(1%)40=49 TIMES 1(1%)50=59 TIMES 2(1%)60=69 TIMES 0(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 150(89%)100+ TIMES
8 8	WHAT IS YOUR OCCUPATION? 1(1%)NO REPONSE 141(84%)CRAFTSMAN/LABORER 0(0%)OFFICE/CLERICAL 0(0%)STUDENT(NOT COLLEGE) 10(6%)PROFESSIONAL/TECHNICAL/MANAGERIA 3(2%)SERVICE/SALES 0(0%)HOMEMAKER 2(1%)STUDENT(COLLEGE) 11(7%)OTHER 10(6%)PROFESSIONAL/TECHNICAL/MANAGERIA 3(2%)SERVICE/SALES 0(0%)HOMEMAKER 2(1%)STUDENT(COLLEGE) 11(7%)OTHER
9 a	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 14(8%)NO PESPONSE 1(1%)\$2,999 OR LESS 0(0%)\$3,000=5,999 0(0%)\$6,000=8,999 7(4%)\$9,000=11,999 45(27%)\$12,000=14,999 99(59%)\$15,000=24,999 2(1%)\$25,000+
10,	WHAT IS YOUR SEX? 2(1%)NO PESPONSE 165(98%)MALE 1(1%)FEMALE

SUMMARY FOR THU. MAY 12 AT DETROIT-E. LANSING

230 SURVEYS

	230 5	HRVEYS	•
3 e	HOW DID YOU GET TO THIS BUS? 3(1%)NO RESPONSE 81(35% 13(6%)TAXI 8(3% 0(0%)COMMUTER TRAIN 0(0%)WALK)INTERCITY BUS)AMTRAK TRAIN	95(41%)AUTOMOBILE 25(11%)LOCAL BUS 5(2%)OTHER
(1 ₈	HOW WILL YOU GET TO YOUR DESTINA 3(1%)NO RESPONSE 30(13% 21(9%)TAXI 6(3% 0(0%)COMMUTER TRAIN 0(0%	JWALK	144(63X) AUTOMOBILE
5,	WHAT IS THE PURPOSE OF YOUR TRIP 3(1%)NO RESPONSE 71(9% 54(23%)PERS. BUSINESS 105(46% 12(5%)OTH SOCYAL/REC.	?)WORK)VISIT FRIENDS/ RELATIVES	1(0%)SHOPPING 8(3%)VACATION 26(11%)OTHER
6,	HOW MANY CAR OR TRUCK TYPE VFHICE 6(3%)NO RESPONSE 57(25% 70(30%)2 VEHICLES 44(19%	INONE	
7 ₈	HOW MANY TIMES IN THE PAST YEAR 18(8%)NO RESPONSE 133(58% 20(9%)20=29 TIMES 5(2% 4(2%)50=59 TIMES 0(0% 0(0%)80=89 TIMES 0(0%) 0 · 9 TIMES)30 • 39 TIMES)60 • 69 TIMES	36(16%)10=19 TIMES 5(2%)40=49 TIMES 3(1%)70=79 TIMES
8,	WHAT IS YOUR OCCUPATION? 3(1%)NO REPONSE 5(2%)CRAFTSMAN/LABORER 2(1%)OFFICE/CLERICAL 17(7%)STUDENT(NOT COLLEGE) 1 13(6%)RETIRED 11(5%)OTHER	6(3%)SERVICE/SA 16(7%)HOMEMAKER	ALES DLLEGE)
9,	WHAT IS YOUR APPROXIMATE FAMILY 30(13%)NO RESPONSE 30(13% 19(8%)% 6,000= 8,999 17(7% 39(17%)%15,000=24,999 54(23%)\$2,999 OR LESS	20(9%)\$ 3,000= 5,999
10,	WHAT IS YOUR SEX?	3 MAA 1 PM	A 4 7 6 4 7 8 4 5 7 7 8 4 4 7 7

143(62%) FEMALE

7 (3%) NO RESPONSE 80 (35%) MALE

0 N 8 0 A R D INTERCITY BUS SURVEY

SUMMARY FOR FRI. MAY 13 AT DETROIT-E. LANSING

	312 SURVEYS
3 9	HOW DID YOU GET TO THIS BUS? 0 (0%)NO RESPONSE 105(34%)WALK 119(38%)AUTOMOBILE 23 (7%)TAXI 16 (5%)INTERCITY BUS 43(14%)LOCAL BUS 0 (0%)COMMUTER TRAIN 0 (0%)AMTRAK TRAIN 6 (2%)OTHER
4 8	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 2(1%)NO RESPONSE 54(17%)WALK 186(60%)AUTOMOBILE. 28(9%)TAXI 8(3%)INTERCITY BUS 23(7%)LOCAL BUS 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 11(4%)OTHER
5	WHAT IS THE PURPOSE OF YOUR TRIP? O(0%)NO RESPONSE
6.	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE DWNED BY YOUR HOUSEHOLD? 4(1%)NO RESPONSE 76(24%)NONE 69(22%)1 VEHICLE 90(29%)2 VEHICLES 73(23%)3+ VEHICLES
7 8	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 31(10%)NO RESPONSE 165(53%) 0 9 TIMES 57(18%)10=19 TIMES 32(10%)20=29 TIMES 7(2%)30=39 TIMES 5(2%)40=49 TIMES 5(2%)50=59 TIMES 0(0%)60=69 TIMES 4(1%)70=79 TIMES 2(1%)R0=89 TIMES 1(0%)90=99 TIMES 3(1%)100+ TIMES
8 8	WHAT IS YOUR OCCUPATION? 2(1%)NO REPONSE 12(4%)CRAFTSMAN/LABORER 15(5%)OFFICE/CLERICAL 29(9%)STUDENT(NOT COLLEGE) 12(4%)RETIRED 18(6%)OTHER 30(10%)PROFESSIONAL/TECHNICAL/MANAGERIA 30(10%)PROFESSIONAL/TECHNICAL/MANAGERIA 30(10%)PROFESSIONAL/TECHNICAL/MANAGERIA 30(10%)PROFESSIONAL/TECHNICAL/MANAGERIA 110(10%)PROFESSIONAL/TECHNICAL/MANAGERIA 12(4%)CERICAL/MANAGERIA 13(1%)SERVICE/SALES 12(7%)HOMEMAKER 150(48%)STUDENT(COLLEGE) 19(6%)UNFMPLOYED
9 9	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 36(12%)NO RESPONSE
10 9	WHAT IS YOUR SEX? 10(3%)NO PESPONSE 110(35%)MALE 192(62%)FEMALE
11,	WHAT IS YOUR AGE RANGE?

28(9%)17 OR UNDER

141 4%)40 WHARS

223(71%)18-29 YEARS

15(5%)50=64 YEARS

3 (1%) NO REPONSE

15(5%)30 39 YEARS

14(4%)65+ YFARS

64. [18]

11.

WHAT IS YOUR AGE RANGE?

2(1%) NO PEPONSE

16(10%)30-39 YEARS

20(13%)65+ YEAPS

SUMMARY FOR FRI, MAY 13 AT DETROIT-FLINT

	. 11	154 SURVEYS
3 .	HOW DID YOU GET TO THIS BUS? 0(0%)NO RESPONSE 12: 14(9%)TAXI 4: 0(0%)COMMUTER TRAIN 1:	? 2(A%)WALK 4(3%)INTERCITY BUS 21(14%)LOCAL BUS 1(1%)AMTRAK TRAIN 7(5%)OTHER
4 .	HOW WILL YOU GET TO YOUR DEST 1(1%)NO RESPONSE 10 24(16%)TAXI 5 0(0%)COMMUTER TRAIN 1	STINATION AFTER LEAVING THIS BUS? 0 (6%) WALK 96(62%) AUTOMOBILE, 5 (3%) INTERCITY BUS 13 (8%) LOCAL BUS 1 (1%) ANTRAK TRAIN 4 (3%) OTHER
5,	WHAT IS THE PURPOSE OF YOUR 4(3%)NO RESPONSE 111 29(19%)PERS. BUSINESS 80 4(3%)OTH SOCIAL/REC.	TRIP? 1(7%)WORK 1(1%)SHOPPING 0(52%)VISIT FRIENDS/ 7(5%)VACATION RELATIVES 18(12%)OTHER
6 8	HOW MANY CAR OR TRUCK TYPE VE 11(7%)NO RESPONSE 55: 34(22%)2 VEHICLES 17:	VEHICLES ARE DWNED BY YOUR HOUSEHOLD? 5(36%)NONE 37(24%)1 VEHICLE 7(11%)3+ VEHICLES
7	HOW MANY TIMES IN THE PAST YE 26(17%)ND RESPONSE 88: 13(8%)20=29 TIMES 8: 0(0%)50=59 TIMES 0: 0(0%)80=89 TIMES 0:	YEAR HAVE YOU RIDEN AN INTERCITY BUS? 8(57%) 0 9 TIMES 11(7%)10=19 TIMES 8(5%)30=39 TIMES 5(3%)40=49 TIMES 0(0%)40=49 TIMES 0(0%)70=79 TIMES 0(0%)90=99 TIMES 3(2%)100+ TIMES
₿ ø	8(5%)NO REPONSE 5(3%)CRAFTSMAN/LABORER 6(4%)OFFICE/CLERICAL	11(7%)PROFESSIONAL/TECHNICAL/MANAGERIA
9 8	WHAT IS YOUR APPROXIMATE FAMI 23(15%)NO RESPONSE 196 15(10%)\$ 6,000= 8.999 156 15(10%)\$15,000=24,999 126	9(12%)\$2,999 OR LESS 34(22%)\$ 3,000 = 5,999 5(10%)\$ 9,000 = 11,799 21(14%)\$12,000 = 14,999
10 8		0(39%)MALE 90(58%)FEMALE

15(10%)17 OR UNDER

15(10%)40=49 YEARS

60(39%)18=29 YEARS

26(17%)50=64 YEARS

0 N BOARD INTERCITY 8 U S SURVEY

SUMMARY FOR ALL DAYS AT DETROTTOFLINT

	315 SURVEYS
₹ 8	HOW DID YOU GET TO THIS BUS? 4(1%)NO RESPONSE 35(11%)WALK 190(60%)AUTOMOBILE 28(9%)TAXI 8(3%)INTERCITY BUS 35(11%)LOCAL BUS 0(0%)COMMUTER TRAIN 1(0%)AMTRAK TRAIN 14(4%)OTHER
4 2	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 5(2%)NO RESPONSE
5 .	WHAT IS THE PURPOSE OF YOUR TRIP? 11(3%)NO RESPONSE
6 8	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 23(7%)NO RESPONSE 108(34%)NONE 90(29%)1 VEHICLE 62(20%)2 VEHICLES 32(10%)3+ VEHICLES
7 ,	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 60(19%)NO PESPONSE 186(59%) 0= 9 TIMES 29(9%)10=19 TIMES 17(5%)20=29 TIMES 11(3%)30=39 TIMES 5(2%)40=49 TIMES 2(1%)50=59 TIMES 1(0%)60=69 TIMES 1(0%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 3(1%)100+ TIMES
8.	WHAT IS YOUR OCCUPATION? 15(5%)NO REPONSE 13(4%)CRAFTSMAN/LABORER 13(4%)OFFICE/CLERICAL 33(10%)STUDENT(NOT COLLEGE) 47(15%)RETIRED 47(15%)OTHER 25(8%)PROFESSIONAL/TECHNICAL/MANAGERIA 6(2%)SERVICE/SALES 44(14%)HOMEMAKER 39(12%)STUDENT(COLLEGE) 33(10%)UNEMPLOYED 47(15%)OTHER
Ф _е	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 54(17%)NO RESPONSE 41(13%)\$2,999 OR LESS 58(18%)\$ 3,000 5,999 38(12%)\$ 6,000 = 8,999 29(9%)\$ 9,000 = 11,999 36(11%)\$12,000 = 14,999 39(12%)\$15,000 = 24,999 20(6%)\$25,000+
10.	WHAT IS YOUR SEX? 12(4%)NO RESPONSE 130(41%)MALE 173(55%)FEMALE

WHAT IS YOUR AGE RANGE? 11. 6(2%) NO REPONSE 31(10%)17 OR UNDER 131(42%) 18=29 YEARS 23(7%)30-39 YFARS 30(10%)40=49 YEARS 55(17%)50=64 YEARS 39(12%)65+ YEARS

SUMMARY FOR ALL DAYS AT DETROITSE LANSING

542 SURVEYS

3.	HOW DID YOU GET TO THIS	8U S?	
	3(1%)NO RESPONSE	186 (34%) WALK	214(39%)AUTOMOBILE
	36(7%) TAXI	24(4%) INTERCITY BUS	68(13%)LOCAL BUS
	O(0%)COMMUTER TRAIN	O(0%)AMTRAK TRAIN	11(2%)OTHER

- 4. HOW WILL YOU GFT TO YOUR DESTINATION AFTER LEAVING THIS BUS?

 5(1%)NO RESPONSE 84(15%)WALK 330(61%)AUTOMOBILE
 49(9%)TAXI 14(3%)INTERCITY BUS 42(8%)LOCAL BUS
 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN .18(3%)OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?

 3(1%)NO RESPONSE 42(8%)WORK 8(1%)SHOPPING

 98(18%)PERS. BUSINESS 291(54%)VISIT FRIENDS/ 20(4%)VACATION

 25(5%)OTH SOCIAL/REC. RELATIVES 55(10%)OTHER
- 6. HOW MANY CAR OR TRUCK TYPE VEHICLES ARE DWNED BY YOUR HOUSEHOLD?

 10(2%)NO RESPONSE 133(25%)NONE 122(23%)1 VEHICLE

 160(30%)2 VEHICLES 117(22%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?
 49(9%)NO RESPONSE 298(55%) 0= 9 TIMES 93(17%)10=19 TIMES
 52(10%)20=29 TIMES 12(2%)30=39 TIMES 10(2%)40=49 TIMES
 9(2%)50=59 TIMES 0(0%)60=69 TIMES 7(1%)70=79 TIMES
 2(0%)80=89 TIMES 1(0%)90=99 TIMES 9(2%)100+ TIMES
- 8. WHAT IS YOUR OCCUPATION?
 5(1%)NO REPONSE
 60(11%)PROFESSIONAL/TECHNICAL/MANAGERIA
 17(3%)CRAFTSMAN/LABORER
 17(3%)OFFICE/CLERICAL
 46(8%)STUDENT(NOT COLLEGE)
 25(5%)RETIRED
 29(5%)OTHER
 60(11%)PROFESSIONAL/TECHNICAL/MANAGERIA
 9(2%)SERVICE/SALES
 38(7%)HOMEMAKER
 260(48%)STUDENT(COLLEGE)
 36(7%)UNEMPLOYED
 29(5%)OTHER
- 9. WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?
 66(12%)NO RESPONSE 51(9%)\$2,999 OR LESS 46(8%)\$ 3,000 = 5,999
 54(10%)\$ 6,000 = 8,999 35(6%)\$ 9,000 = 11,999 59(11%)\$12,000 = 14,999
 104(19%)\$15,000 = 24,999 127(23%)\$25,000+
- 10. WHAT IS YOUR SEX?
 17(3%)NO RESPONSE 190(35%)MALE 335(62%)FEMALE
- 11. WHAT IS YOUR AGE RANGE?
 6(1%)NO REPONSE 39(7%)17 OR UNDER 376(69%)18=29 YEARS
 34(6%)30=39 YEARS 28(5%)50=64 YEARS
 31(6%)654 YEARS

SUMMARY FOR THU, MAY 12 AT DETROIT-FLINT

	161 SURVEYS
3.	HOW DID YOU GET TO THIS BUS? 4(2%)NO RESPONSE 23(14%)WALK 95(59%)AUTOMOBILE 14(9%)TAXI 4(2%)INTERCITY BUS 14(9%)LOCAL BUS 0(9%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 7(4%)OTHER
4 g	HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS? 4(2%)NO RESPONSE 17(11%)WALK 79(49%)AUTOMOBILE ' 26(16%)TAXI 14(9%)INTERCITY BUS 13(8%)LOCAL BUS 0(0%)COMMUTER TRAIN 0(0%)AMTRAK TRAIN 8(5%)OTHER
5 g	WHAT IS THE PURPOSE OF YOUR TRIP? 7(4%)NO RESPONSE 12(7%)WORK 3(2%)SHOPPING 31(19%)PERS, BUSINESS 62(39%)VISIT FRIENDS/ 8(5%)VACATION 2(1%)OTH SOCIAL/REC, RELATIVES 36(22%)OTHER
6 e	HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD? 12(7%)NO. RESPONSE 53(33%)NONE 53(33%)1 VEHICLE 28(17%)2 VEHICLES 15(9%)3+ VEHICLES
7 a	HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS? 34(21%)NO RESPONSE 98(61%) 0= 9 TIMES 18(11%)10=19 TIMES 4(2%)20=29 TIMES 3(2%)30=39 TIMES 0(0%)40=49 TIMES 2(1%)50=59 TIMES 1(1%)60=69 TIMES 1(1%)70=79 TIMES 0(0%)80=89 TIMES 0(0%)90=99 TIMES 0(0%)100+ TIMES
8 ,	WHAT IS YOUR OCCUPATION? 7(4%)NO REPONSE 8(5%)CRAFTSMAN/LABORER 7(4%)NFFICE/CLERICAL 17(11%)STUDENT(NOT COLLEGE) 22(14%)RETIRED 27(17%)OTHER 14(9%)PROFESSIONAL/TECHNICAL/MANAGERIA 3(2%)SERVICE/SALES 20(12%)HOMEMAKER 15(9%)STUDENT(COLLEGE) 21(13%)UNEMPLOYED
9 6	WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES? 31(19%)NO RESPONSE
10 .	WHAT IS YOUR SEX? 8(5%)NO RESPONSE 70(43%)MALE 83(52%)FEMALE

11. WHAT IS YOUR AGE RANGE?

4 (2%)NO REPONSE 16(10%)17 OR UNDER 71(44%)18=29 YEARS
7 (4%)30=39 YEARS 15(9%)40=49 YEARS 29(18%)50=64 YEARS
19(12%)65+ YEARS

SUMMARY FOR ALL DAYS AT STATE NO REPUBLIC

2286 SURVEYS

- 4. HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS?

 41(2%)NO RESPONSE 249(11%)WALK 1221(53%)AUTOMOBILE *

 371(16%)TAXI 92(4%)INTERCITY BUS 211(9%)LOCAL BUS

 10(0%)COMMUTER TRAIN 2(0%)AMTRAK TRAIN 89(4%)OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?
 50(2%)NO RESPONSE 183(8%)WORK 27(1%)SHOPPING
 394(17%)PERS. BUSINESS 1144(50%)VISIT FRIENDS/ 153(7%)VACATION
 60(3%)OTH SOCIAL/REC. RELATIVES. 275(12%)OTHER
- 6. HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD?
 110(5%)NO RESPONSE 773(34%)NONE 611(27%)1 VEHICLE
 505(22%)2 VEHICLES 287(13%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?
 465(20%)ND RESPONSE 1321(58%) 0= 9 TIMES 227(10%)10=19 TIMES
 124(5%)20=29 TIMES 48(2%)30=39 TIMES 28(1%)40=49 TIMES
 18(1%)50=59 TIMES 4(0%)60=69 TIMES 9(0%)70=79 TIMES
 2(0%)80=89 TIMES 1(0%)90=99 TIMES 39(2%)100+ TIMES
- 8. WHAT IS YOUR OCCUPATION?

 76(3%)NO REPONSE

 105(5%)CRAFTSMAN/LABORER

 93(4%)OFFICE/CLERICAL

 167(7%)STUDENT(NOT COLLEGE)

 295(13%)RETIRED

 211(9%)OTHER

 251(11%)PROFESSIONAL/TECHNICAL/MANAGERIA

 251(11%)PROFESSIONAL/TECHNICAL/MANAGERIA

 69(3%)SERVICE/SALES

 322(14%)HOMEMAKER

 167(7%)STUDENT(COLLEGE)

 169(7%)UNEMPLOYED
- 9. WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?

 381(17%)NO PESPONSE 308(13%)\$2,999 OR LESS 315(14%)\$ 3,000 5,999

 271(12%)\$ 6,000 8,999 205(9%)\$ 9,000 11,999 205(9%)\$12,000 14,999

 335(15%)\$15,000 24,999 266(12%)\$25,000+
- 10. WHAT IS YOUR SEX?
 91(4%)NO RESPONSE 853(37%)MALE 1342(59%)FEMALE
- 11. WHAT IS YOUR AGE RANGE?
 58(3%)NO REPONSE 151(7%)17 OR UNDER 1084(47%)18=29 YEARS
 220(10%)30=39 YEARS 194(8%)40=49 YEARS 317(14%)50=64 YEARS
 262(11%)65+ YEARS

SUMMARY FOR ALL DAYS AT WHOLE STATE

2454 SURVEYS

3 .	HOW DID YOU GET TO THIS	RUS?	
	23(1%)NO RESPONSE	459(19%) WALK	1308(53%) AUTOMOBILE
	237(10%) TAXT	105(4%) INTERCITY BUS	240(10%)LOCAL BUS
	10(0%)COMMUTER TRAIN	50 0%) AMTRAK TRAIN	67(3%)OTHER

- 4. HOW WILL YOU GET TO YOUR DESTINATION AFTER LEAVING THIS BUS?
 41(2%) NO RESPONSE 359(15%) WALK 1279(52%) AUTOMOBILE:
 371(15%) TAXI 92(4%) INTERCITY BUS 211(9%) LOCAL BUS
 10(0%) COMMUTER TRAIN 2(0%) AMTRAK TRAIN 89(4%) OTHER
- 5. WHAT IS THE PURPOSE OF YOUR TRIP?
 51(2%)NO RESPONSE 350(14%)WORK 27(1%)SHOPPING
 394(16%)PERS. BUSINESS 1144(47%)VISIT FRIENDS/ 153(6%)VACATION
 60(2%)OTH SOCIAL/REC. RELATIVES 275(11%)OTHER
- 6. HOW MANY CAR OR TRUCK TYPE VEHICLES ARE OWNED BY YOUR HOUSEHOLD?

 111(5%)NO RESPONSE 785(32%)NONE 655(27%)1 VEHICLE

 595(24%)2 VEHICLES 308(13%)3+ VEHICLES
- 7. HOW MANY TIMES IN THE PAST YEAR HAVE YOU RIDEN AN INTERCITY BUS?

 474(19%)NC RESPONSE 1321(54%) 0= 9 TIMES 229(9%)10=19 TIMES

 126(5%)20=29 TIMES 48(2%)30=39 TIMES 30(1%)40=49 TIMES

 19(1%)50=59 TIMES 6(0%)60=69 TIMES 9(0%)70=79 TIMES

 2(0%)80=89 TIMES 1(0%)90=99 TIMES 189(8%)100+ TIMES
- 8. WHAT IS YOUR OCCUPATION?
 77(3%)NO REPONSE
 246(10%)CRAFTSMAN/LABORFR
 93(4%)OFFICE/CLERICAL
 167(7%)STUDENT(NOT COLLEGE)
 295(12%)RETIRED
 222(9%)OTHER
 261(11%)PROFESSIONAL/TECHNICAL/MANAGERIA
 72(3%)SERVICE/SALES
 322(13%)HOMEMAKER
 530(22%)STUDENT(COLLEGE)
 169(7%)UNEMPLOYED
- 9. WHAT IS YOUR APPROXIMATE FAMILY INCOME BEFORE TAXES?

 395(16%)NO RESPONSE 309(13%)\$2,999 OR LFSS 315(13%)\$ 3,000 = 5,999

 271(11%)\$ 6,000 = 8,999 212(9%)\$ 9,000 = 11,999 250(10%)\$12,000 = 14,999

 434(18%)\$15,000 = 24,999 268(11%)\$25,000 +
- 10. WHAT IS YOUR SEX?
 93(4%)NO RESPONSE 1018(41%)MALE 1343(55%)FEMALE
- 11. WHAT IS YOUR AGE RANGE?

 58(2%)NO PEPONSE 151(6%)17 OR UNDER 1134(46%)18=29 YEARS
 270(11%)30=39 YEARS 219(9%)40=49 YEARS 359(15%)50=64 YEARS
 263(11%)65+ YEARS

Detroit Origin City

$\frac{\text{May } 1977}{\text{Month}}$

						·	ronen			
9 Mon	10 Tues	11 Wed	12 Thur	13 Fri	14 Sat	15 Sun	Total	Average Total		
79	57	57	46	65	36	52	392	56.0		
2	5	4	3	7	4	7	32	4.6		
1	2	8	5	3	3	2	24	3.4		
					2		2	0.3		
58	8	4	8	27	22	48	175	25.0		
19	17	20	27	45	45	32	. 205			
34	23	14	8	36	12	18	145	20.7		
24	21	24	4	25	17	21	136	19.4		
16	3	7	5	10	11	8	60	8.6 22.3 5.3		
18	27	8	23	46	11	23	156			
2	2	1	5	11	7	9	37			
6		2	4	10	15	2	39	5.6		
6	19	9	6	18	14	7	79	11.3		
56	25	24	23	31	21	35	215	30.7		
24	38	47	38	57	52	70	326	46.6		
345	247	229	205	391	272	334	2,023	289.0		
	Mon 79 2 1 58 19 34 24 16 18 2 6 56 24	Mon Tues 79 57 2 5 1 2 58 8 19 17 34 23 24 21 16 3 18 27 2 2 6 19 56 25 24 38	Mon Tues Wed 79 57 57 2 5 4 1 2 8 58 4 19 17 20 34 23 14 24 21 24 16 3 7 18 27 8 2 2 1 6 19 9 56 25 24 24 38 47	Mon Tues Wed Thur 79 57 46 2 5 4 3 1 2 8 5 58 8 4 8 19 17 20 27 34 23 14 8 24 21 24 4 16 3 7 5 18 27 8 23 2 2 1 5 6 19 9 6 56 25 24 23 24 38 47 38	Mon Tues Wed Thur Fri 79 57 46 65 2 5 4 3 7 1 2 8 5 3 58 8 4 8 27 19 17 20 27 45 34 23 14 8 36 24 21 24 4 25 16 3 7 5 10 18 27 8 23 46 2 2 1 5 11 6 2 4 10 6 19 9 6 18 56 25 24 23 31 24 38 47 38 57	Mon Tues Wed Thur Fri Sat 79 57 57 46 65 36 2 5 4 3 7 4 1 2 8 5 3 3 58 8 4 8 27 22 19 17 20 27 45 45 34 23 14 8 36 12 24 21 24 4 25 17 16 3 7 5 10 11 2 2 1 5 11 7 6 19 9 6 18 14 56 25 24 23 31 21 24 38 47 38 57 52	Mon Tues Wed Thur Fri Sat Sun 79 57 57 46 65 36 52 2 5 4 3 7 4 7 1 2 8 5 3 3 2 58 8 4 8 27 22 48 19 17 20 27 45 45 32 34 23 14 8 36 12 18 24 21 24 4 25 17 21 16 3 7 5 10 11 8 18 27 8 23 46 11 23 2 1 5 11 7 9 6 19 9 6 18 14 7 56 25 24 23 31 21 35	Mon Tues Wed Thur Fri Sat Sun Total 79 57 57 46 65 36 52 392 2 5 4 3 7 4 7 32 1 2 8 5 3 3 2 24 2 2 2 2 2 2 2 58 8 4 8 27 22 48 175 19 17 20 27 45 45 32 205 34 23 14 8 36 12 18 145 24 21 24 4 25 17 21 136 16 3 7 5 10 11 8 60 18 27 8 23 46 11 23 156 2 2 1 5 11		

APPENDIX D (con't)

MICHIGAN INTERCITY BUS SURVEY ORIGIN-DESTINATION INFORMATION

									
Destination	9 Mon	10 Tues	11 Wed	12 Thur	13 Fri	14 Sat	15 Sun	Total	Average Total
Illinois	5	2	4	10	3	2	6	32	4.6
Chicago	43	34	31	41	77	52	44	, 322	46.0
Indiana	28	23	22	20	39	21	14	167	23.9
Minnesota				1	2	1	3	7	1.0
Ohio	43	29	37	42	84	50	46	331	47.3
Cleveland	25	34	31	24	75	47	24	260	37.1
Toledo	33	25	22	25	55	39	32	231	33.0
Wisconsin	4	1	2	5	4	4	3	23	3.3
Ontario	21	20	19	1.8	35	36	16	165	23.6
Other West	48	60	57	86	74	45	44	414	59.1
Other South	95	95	100	83	152	69	69	663	94.7
Other East	37	28	16	25	51	31	39	227	32.4
Total Non-Michigan	382	351	341	380	651	397	340	2,842	406.0
GRAND TOTAL	727	598	570	585	1,042	669	674	4,865	695.0

