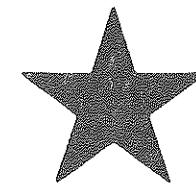


HE
147.6
.M5
v.1-P

Statewide



Transportation Analysis & Research

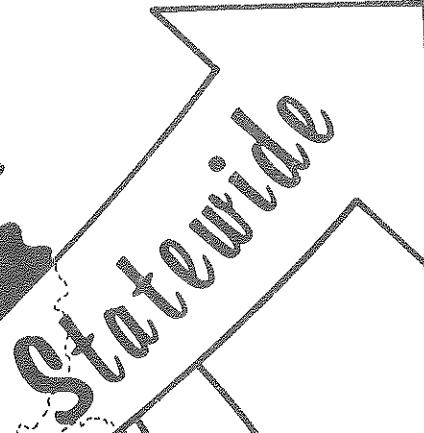
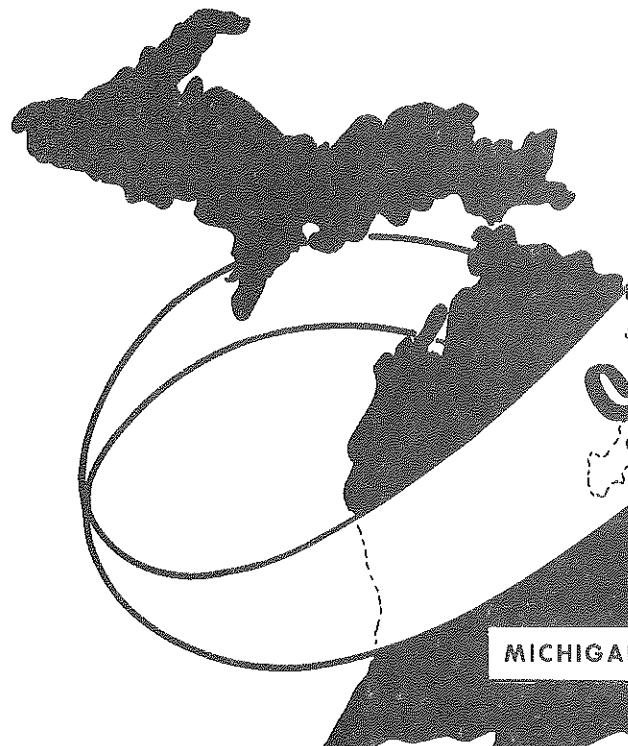
MICHIGAN'S
STATEWIDE TRAFFIC FORECASTING
MODEL

POPULATION PROJECTIONS
547 ZONE SYSTEM

VOL. I - P

REVISED MAY, 1978

STATEWIDE TRANSPORTATION PROCEDURES



MICHIGAN DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

MICHIGAN DEPARTMENT

OF

STATE HIGHWAYS AND TRANSPORTATION
BUREAU OF TRANSPORTATION PLANNING

MICHIGAN'S
STATEWIDE TRAFFIC FORECASTING
MODEL

POPULATION PROJECTIONS
547 ZONE SYSTEM

VOL. I - P

REVISED MAY, 1978

STATEWIDE TRANSPORTATION PROCEDURES

STATE HIGHWAY COMMISSION

E. V. Erickson

Chairman

Peter B. Fletcher

Charles H. Hewitt

Vice Chairman

Carl V. Pellonpaa

DIRECTOR

John P. Woodford

TABLE OF CONTENTS

POPULATION PROJECTIONS

547 ZONE SYSTEM

BY ALAN R. FRIEND

PREFACE	1
INTRODUCTION	2
DATA ANALYSIS AND ZONAL SUMMARIZATION	6
APPENDIX A	14
ZONE POPULATION BASED ON GOLDBERG 1966	
APPENDIX B	36
ZONE POPULATION BASED ON BUREAU OF BUDGET 1974	
APPENDIX C	58
FRACTION-OF-VARIANCE REMOVED TABLE	
APPENDIX D	59
ZONE POPULATION BASED ON BUREAU OF BUDGET 1978	

HIGHWAY COMMISSION
E. V. ERICKSON
CHAIRMAN
CHARLES H. HEWITT
VICE CHAIRMAN
PETER B. FLETCHER
CARL V. PELLONPAA

STATE OF MICHIGAN



WILLIAM G. MILLIKEN, GOVERNOR

DEPARTMENT OF STATE HIGHWAYS AND TRANSPORTATION

STATE HIGHWAYS BUILDING - POST OFFICE DRAWER K - LANSING, MICHIGAN 48904

JOHN P. WOODFORD, DIRECTOR

December 14, 1973

Mr. Sam F. Cryderman
Engineer of Transportation Planning
Transportation Planning Division

Dear Mr. Cryderman:

This report deals with the development of the zonal population projections used in the present 547 zone statewide traffic forecasting model. This document should be reviewed by each of the planning teams as the population is a basic element in the present modeling system.

The zonal population projections from 1970 to 2000 are included in the appendix of this report.

Sincerely,

A handwritten signature in black ink that reads "Keith E. Bushnell".

Keith E. Bushnell
Engineer of Transportation
Survey and Analysis Section



PREFACE

STATE WIDE

PREFACE

This report deals with the development of the zonal population projections used in the statewide traffic forecasting model. The modeling system presently being used was calibrated to a 1965 highway network. The population projections used in the model were initially completed by the Population Studies Center at the University of Michigan. These county level projections were then used as input to the small area projection study prepared by Donald E. Bailey, entitled Preliminary Population Projection for Small Areas in Michigan - November, 1966. The present modeling system uses a zonal summarization of these population projections. The zonal summaries have been adjusted by 1970 county level census data and used as the basic input to the trip generation - distribution process.

Because interest has been expressed in new county forecasts now available from the State of Michigan, Bureau of the Budget, new zonal populations based on these forecasts are now available. The following report has been updated to reflect the additional work done with the Bureau of the Budget (B.O.B.) forecasts. The original report is intact with a few paragraphs at the end of each section explaining the work done with the B.O.B. projections.

In May, 1978, Appendix D was added in response to current data released by the Office of the Budget. A summary report titled, Population Projections for Michigan to the Year 2000, Series 1978-1, is available from the Department of Management and Budget.

STATEWIDE SYSTEM APPLICATION REPORTS

- VOLUME I
 - OBJECTIVES AND WORK PROGRAM
 - REGION 4 WORKSHOP TOPIC SUMMARIES
 - SINGLE AND MULTIPLE CORRIDOR ANALYSIS
 - PROXIMITY ANALYSIS
 - MODEL APPLICATION: COST-BENEFIT ANALYSIS
 - AIR AND NOISE POLLUTION
 - PSYCHOLOGICAL IMPACT MODEL
 - LEVEL OF SERVICE MODEL
 - STATEWIDE SOCIO-ECONOMIC AND TRANSPORTATION RESOURCES
 - SERVICE AREA MODEL
 - EFFECTIVE SPEED MODEL
 - SYSTEM IMPACT ANALYSIS GRAPHIC DISPLAY
 - MODELING GASOLINE CONSUMPTION
 - ACCIDENT RATES 547 ZONE SYSTEM
 - POPULATION PROJECTIONS 547 ZONE SYSTEM
 - DEVELOPMENT OF NETWORK MODELS
- VOLUME II-A
 - EFFICIENT NETWORK UPDATING WITH INTERACTIVE GRAPHICS
 - TREE PLOTTING WITH INTERACTIVE GRAPHICS
 - CALIBRATION OF MICHIGAN'S STATEWIDE TRAFFIC FORECASTING MODEL
- VOLUME III
 - SEGMENTAL MODEL
 - SEMI-AUTOMATIC NETWORK GENERATOR USING A "DIGITIZER"
 - AUTOMATIC NETWORK GENERATOR USING INTERACTIVE GRAPHICS
 - AASHTO REPORT
 - MICHIGAN'S STATEWIDE MODELING SYSTEM - SYNOPSIS
 - PART A - REFORMATION - TRIP DATA BANK PREPARATION
 - PART B - DEVELOPMENT OF SOCIO-ECONOMIC DATA BANK FOR TRIP GENERATION - DISTRIBUTION
 - SINGLE STATION O&D PROCEDURES MANUAL
 - EXTERNAL O&D PROCEDURES MANUAL
 - CORRIDOR LOCATION DYNAMICS
 - ENVIRONMENTAL SENSITIVITY COMPUTER MAPPING
 - DESIGN HOUR VOLUME MODEL
 - CAPACITY ADEQUACY FORECASTING MODEL
 - MODELING MAJOR FACILITY OPENING IMPACT ON DHV
 - PUBLIC AND PRIVATE FACILITY FILE
 - CONVERSION OF INDUSTRIAL EXPANSION FILE
 - SOCIO-ECONOMIC DATA FILE
 - MAPPING SOCIO-ECONOMIC DATA WITH SYMAP
 - CONVERSION OF THE AGRICULTURAL CENSUS FILE
 - TAX RATE AND ASSESSED VALUATION INFORMATION
 - SCHOOL DISTRICT DATA FILE
 - TRAVEL IMPACT ANALYSIS PROCEDURES
 - AUTOMATED DESIRELINE PLOTTING
 - TRAFFIC FORECASTING FOR A SPECIAL GENERATOR
 - SOCIAL IMPACT ANALYSIS PROCEDURES
 - ECONOMIC IMPACT ANALYSIS PROCEDURES
 - COMPUTER RUN TIMES
 - MICHIGAN GOES MULTI-MODAL
- VOLUME XI
- VOLUME XIII

- VOLUME XIII-A - MULTI-MODAL MOBILITY AND ACCESSIBILITY ANALYSIS
- VOLUME XIII-B - 1972 STATEWIDE RAIL NETWORK - SUMMARY TABULATIONS
- VOLUME XIII-C - MICHIGAN'S RAIL CROSSING INVENTORY AND ANALYSIS PROCESS
- VOLUME XIII-D - IMPACT OF POPULATION AND ENERGY ON TRANSPORTATION NEEDS - A MULTI-MODAL APPROACH
- VOLUME XIV-A - COMMODITY FLOW MATRIX - ANN ARBOR RAILROAD
- VOLUME XIV-B - COMMODITY FLOW MATRIX - PENN CENTRAL RAILROAD
- VOLUME XIV-C - COMMODITY FLOW MATRIX - MICHIGAN RAILROADS 1% SAMPLE
- VOLUME XV-A - RAILROAD FINANCIAL IMPACT ANALYSIS
- VOLUME XV-B - RAILROAD COMMUNITY IMPACT ANALYSIS
- VOLUME XVI - DIAL-A-RIDE
- VOLUME XVII - INTERMODAL IMPACT ANALYSIS - TRUCK AND RAILROAD
- VOLUME XVIII - CUTLINE ANALYSIS PROGRAM

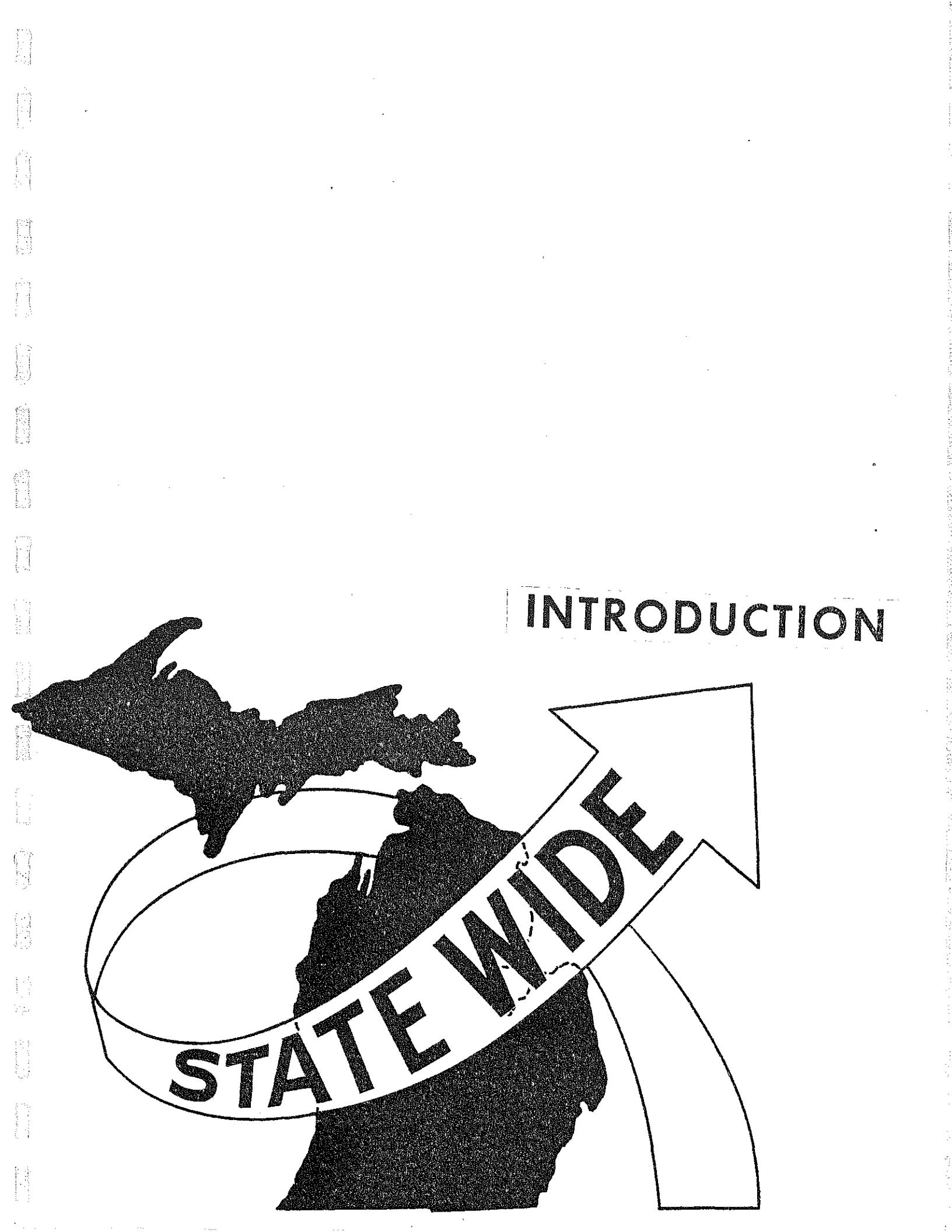
STATEWIDE SYSTEM DEVELOPMENT REPORTS

- REPORT 1 - COMMUNITY COLLEGE SERVICE - AREA ANALYSIS
- REPORT 2 - PROXIMITY OF PEOPLE TO GENERAL PURPOSE HOSPITALS
- REPORT 3 - INDUSTRIAL PARK PROXIMITY ANALYSIS
- REPORT 4 - PROXIMITY OF AUTOMOBILE INJURY ACCIDENTS TO HOSPITALS
- REPORT 5 - PROXIMITY OF AIRPORTS WITH SCHEDULED SERVICE TO POPULATION
- REPORT 6 - REGIONAL PARK PROXIMITY ANALYSIS
- REPORT 7 - RIFLE RANGE PROXIMITY ANALYSIS
- REPORT 8 - AMBULANCE SERVICE - AREA ANALYSIS
- REPORT 9 - COMPREHENSIVE STATEWIDE PLANNING
- REPORT 10 - GRAPHIC DISPLAY OF FIXED-OBJECT ACCIDENT DATA
- REPORT 11 - PRELIMINARY INVESTIGATION: A TECHNIQUE FOR THE PROJECTION OF ACCIDENT RATES
- REPORT 12 - IMPACT OF 50, 55, OR 60 M.P.H. STATEWIDE SPEED LIMIT
- REPORT 13 - A METHOD FOR FUNCTIONALLY CLASSIFYING RURAL ARTERIAL HIGHWAYS
- REPORT 14 - ECONOMIC AND TRAVEL IMPACTS OF SPEED LIMIT REDUCTION USING A STATEWIDE TRANSPORTATION MODELING SYSTEM
- REPORT 15 - I-69 IMPACT ON THE ACCESSIBILITY OF HEALTH, FIRE, AND AMBULANCE SERVICES TO RESIDENTIAL AREAS
- REPORT 16 - CRISIS OR OPPORTUNITY: APPLICATION OF AN OPERATIONAL STATEWIDE TRANSPORTATION MODELING SYSTEM
- REPORT 17 - US-23 CORRIDOR LOCATION STUDY - PRELIMINARY TRAVEL IMPACT ANALYSIS
- REPORT 19 - GRAPHIC DISPLAY OF ACCIDENT DATA
- REPORT 20 - DEMOGRAPHIC INFORMATION FOR THE NORTHWEST REGION
- REPORT 21 - AMTRAK MARKET AREA ANALYSIS - SYSTEM APPLICATION

STATEWIDE SYSTEM REFERENCE HANDBOOKS

- REFERENCE HANDBOOK #1 - STATEWIDE BUS TICKET SURVEY TRAVEL CHARACTERISTICS
- REFERENCE HANDBOOK #2 - MICHIGAN'S PERMANENT TRAFFIC RECORDER TRENDS - POTENTIAL APPLICATION IN TRANSPORTATION PLANNING - ENERGY ANALYSIS
- REFERENCE HANDBOOK #3 - MINOR ORIGIN & DESTINATION TRAVEL CHARACTERISTICS - PART A

INTRODUCTION



STATEWIDE

INTRODUCTION

The present statewide traffic forecasting model uses population as the basic variable in trip generation - distribution. The population data has been developed and summarized into the zone system appearing in figure 1 for instate zones (508). Figure 2 is the zone system for outstate zones.

The population projections are the direct result of a paper prepared by Donald E. Bailey in November 1966 entitled Preliminary Population Projections for Small Areas in Michigan.

That paper contained population for 1,389 small areas in Michigan for years 1965 to 2000. Those projections were prepared for use in the highway portion of the transportation models being developed by the Michigan Department of Highways and Transportation and Arthur D. Little, Inc. The small area projections were based on the County projections presented in Michigan Population - 1960 - to 1980*. The county projections in that report served as control totals for the sub-county units. Therefore, the small area projections are actually distributions of county projections. They are preliminary projections based on a simplified projection technique which is explained in detail in the small area report.

These small area projections were summarized to the 547 zone system and the zonal population totals were adjusted on a straight line. The adjustment factor for each zonal projection was calculated by dividing the 1970 projection for the county by the 1970

* Michigan Population - 1960 to 1980, Population Studies Center, University of Michigan, in cooperation with the State Resource Planning Division, Office of Economic Expansion, Michigan Department of Commerce. (Working Paper No. 1, January, 1966).

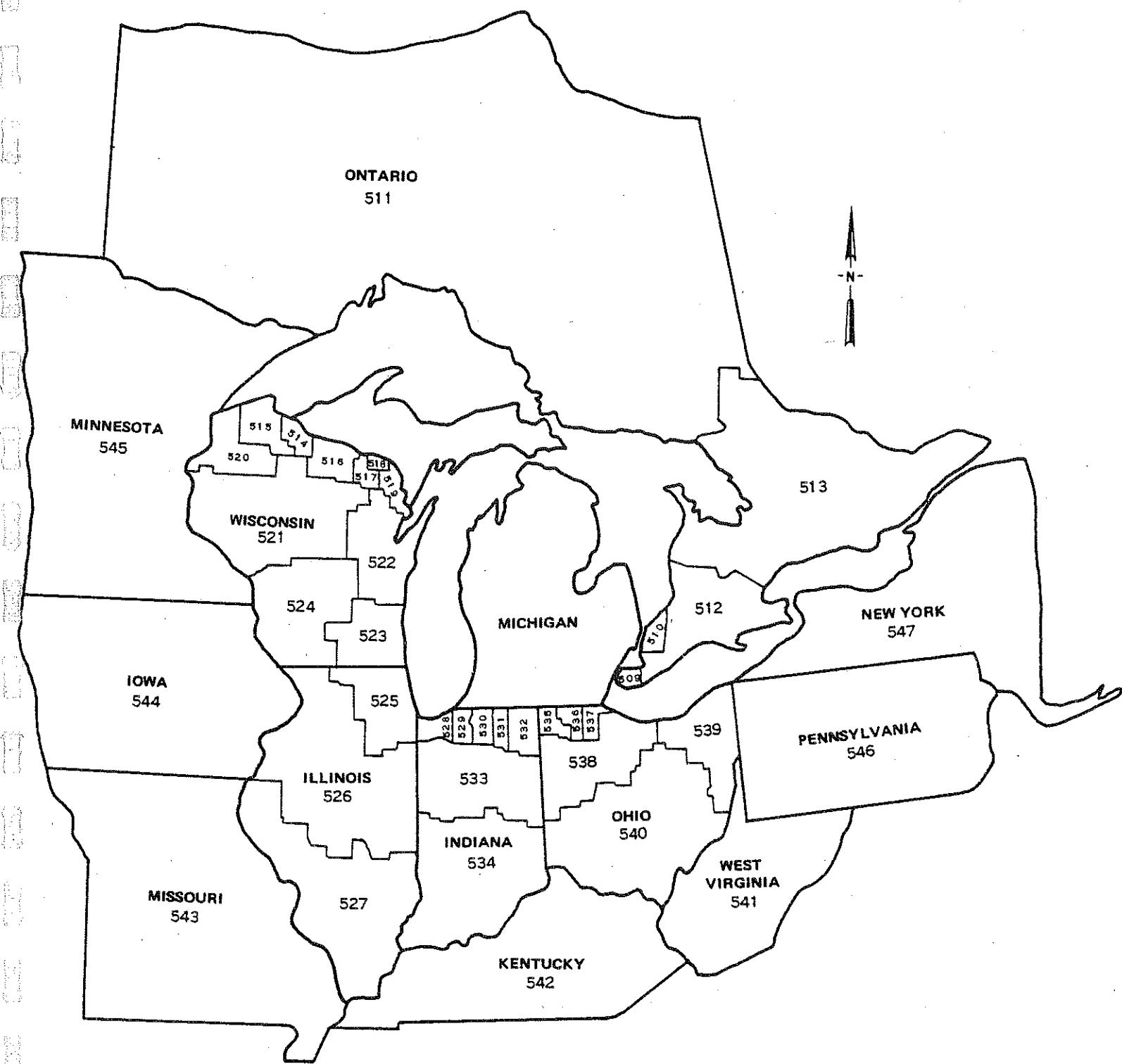


FIGURE 1

FIGURE 2

MICHIGAN'S TRANSPORTATION MODELING SYSTEM

547 ZONE
OUTSTATE ANALYSIS ZONES



Census figure for the county and applying this county factor to all zonal projections in that county. This was done in a simplified attempt at correcting the projections as the result of new 1970 census data.

The B.O.B. county projections were completed through 1990. Because of a need for later projections (especially 1995 and 2000), the B.O.B. projections were extended beyond 1990 by simple linear regression methods.

To obtain zonal projections from the B.O.B. county projections, each county population was split among the zones within that county. The percentage each zone received of the county total was assumed to be the same as with the earlier set of projections.

While realizing that our methods of "projecting projections" leave room for improvement, it was felt that this approach was preferable to not using the projections at all and would still allow us to do a fairly decent job until such time that someone with more expertise could advise what projections might better be used beyond 1990.

DATA ANALYSIS AND ZONAL SUMMARIZATION

STATEWIDE

DATA ANALYSIS AND ZONAL SUMMARIZATION

This section is a brief review of the methods used in obtaining the population projections used in the statewide traffic forecasting model. The population data used in making the small area projections was taken from the U.S. Census of Population for 1940, 1950, and 1960 for minor civil divisions. Total population figures were used. The basic data units used in the projections were cities with 1960 populations of 2,500 or more. The projection method required data units with the same boundaries in each historical year, therefore certain minor civil divisions were combined into larger data units, the boundaries of which had been unchanged, or nearly unchanged, between 1940 and 1960. The projection of population density for small areas requires data on land area. The basic source of this data is Areas of the United States: 1940*.

Adjustment of the area figures was required, as for the population figures, because of the combinations of minor civil divisions into data units. The bulk of the adjustments were made to account for annexations.

"Projection Method. A simplified projection method was used to obtain the preliminary figures in this paper. The procedures are as follows:

- 1) The projections of total population by counties presented in Michigan Population - 1960 to 1980, and an unpublished extension of these projections to 2000, were used as control totals. The sum of the projected populations for all data units in each county was forced to equal the projected County totals for 1965, 1970, 1985, 1980, and 2000.

* Areas of the United States: 1940, U.S. Government Printing Office, Washington, 1942.

- 2) Each data unit's population was then expressed as a fractional share of its county population in 1940, 1950, and 1960.
- 3) A regression line of the following form was then fitted to the shares for each data unit:

$$P = a + b \times \log t$$

where P = population
 $t = \frac{\text{Year} - 1930}{10}$ (i.e., 1940: 1, 1950: 2, etc.)
 a and b = regression coefficients

The same type of regression line was fitted to each data unit. Incorporating the log of time in the equations has the effect of reducing an indicated past rate of increase or decrease in each unit's share of its parent county population.

- 4) The unit shares projected for each of the projection years were then multiplied by the projected county populations for each projection year to arrive at the projected unit populations.
- 5) In order to avoid negative share projections, which could have resulted in some cases of declining shares, a constraint was incorporated that no data unit could fall below 1/10 of 1% of its parent county. In the few cases where this constraint applied, the projected shares of other data units in the county are below the values which would have occurred without the constraint.
- 6) In the 1940 Census of Population, students were enumerated at their home residence rather than at college as in 1950 and 1960. To avoid gross projection errors due to non-comparable statistics, 1940 data was not used in the projec-

tions for data units where the 1940 college enrollment was 750 or more and was 10% or more of total population. This criterion applied to seven places: Mt. Pleasant, Ypsilanti, East Lansing, Houghton, Ann Arbor, Albion, and Big Rapids. 1940 enrollment data was not readily available for all institutions, and there may be minor projection errors where places meeting the above criterion were overlooked. Lesser errors will exist in some small college situations. An alternative adjustment method was considered -- adding 1940 enrollment to 1940 enumerated population -- but was rejected because there was no way of accurately assigning corresponding reductions in population to the students' home residences.

- 7) The sum of the projected shares would not necessarily total exactly 100% of the county total, and therefore the sum of the projected data units would not necessarily total exactly the county projected population. To adjust for this difference, the projected population for each unit was multiplied by the factor: County Projected Total/Sum of Data Unit Projections. This small area population projection information was then summarized to the zone level by determining which small areas belonged to each zone. This resulted in zonal totals for all zones in Michigan based on these projections. *

*Preliminary Population Projections for Small Areas in Michigan - Working Paper #9. State Resource Planning Program Michigan Department of Commerce November, 1966.

Early in 1971 the statewide travel model was calibrated to the extent that it could be used to forecast future travel volumes on state-trunklines in Michigan. At this point in time the preliminary 1970 census county totals had been distributed to states and it was decided that the zonal projections should at least be updated based on 1970 county census data. This was accomplished by obtaining the ratio of forecasted 1970 county total and the 1970 census county total. This county ratio (83 total) was then applied to all zones in that county for all future years. The results of this process appears in Appendix A. These figures are the zonal population projection used in the statewide traffic forecasting model.

The Bureau of the Budget county projections were based upon the cohort survival technique. Those interested in more details concerning the methods and the actual projections are referred to the publication Population Projections for the Counties of Michigan, revised October, 1974. This document is available in many libraries throughout the State or at:

Documents Library
State Library Services
1st Floor Law Building
Lansing, Michigan 48913

or:

Planning and Policy Analysis Division
Bureau of the Budget
Department of Management and Budget
Lewis Cass Building
Lansing, Michigan 48913

As mentioned earlier, these county projections were extended to 1990 with simple linear regression. Most counties were extremely good linear fits. A sample plot for Leelanau County showing the B.O.B. projections (*) and the end points (X) of the best line

through the projections can be seen in Figure 3.

The first regression runs using twenty-one points (1970 through 1990) resulted in all but fifteen counties with an acceptable linear fit. Many of these fifteen did have an acceptable fit from a strictly academic viewpoint, but were not accepted immediately because the largest deviations were at the 1990 end of the line. Since the task was to obtain projections beyond 1990, it was hoped that the extensions beyond 1990 might be improved by looking at these counties again. For some of these fifteen counties, the data scatter indicated a piecewise linear fit should be used. In these cases, only the last piece near the 1990 end was used. Other examples indicated a non-linear transformation be used. Figure 4 shows a scatter plot of Midland County projections using a square-root transformation. A measurement of how well data fits the regression line produced is the "fraction of variance removed". The maximum value of this measure is 1.00. Any value over .80 is considered excellent. A list of the fifteen counties which were reexamined and their final fraction-of-variance-removed may be seen in Appendix C. In the final analysis, all counties had a fraction-of-variance-removed over .80 and better than 85% of the counties were over .95.

Once county projections were complete beyond 1990, the county populations were split to the Statewide Transportation Modeling System's zones (Figure 1). All zones received the same percentage of the counties population as in the prior population projections as discussed earlier in this report.

FIGURE 3

LEELANAU

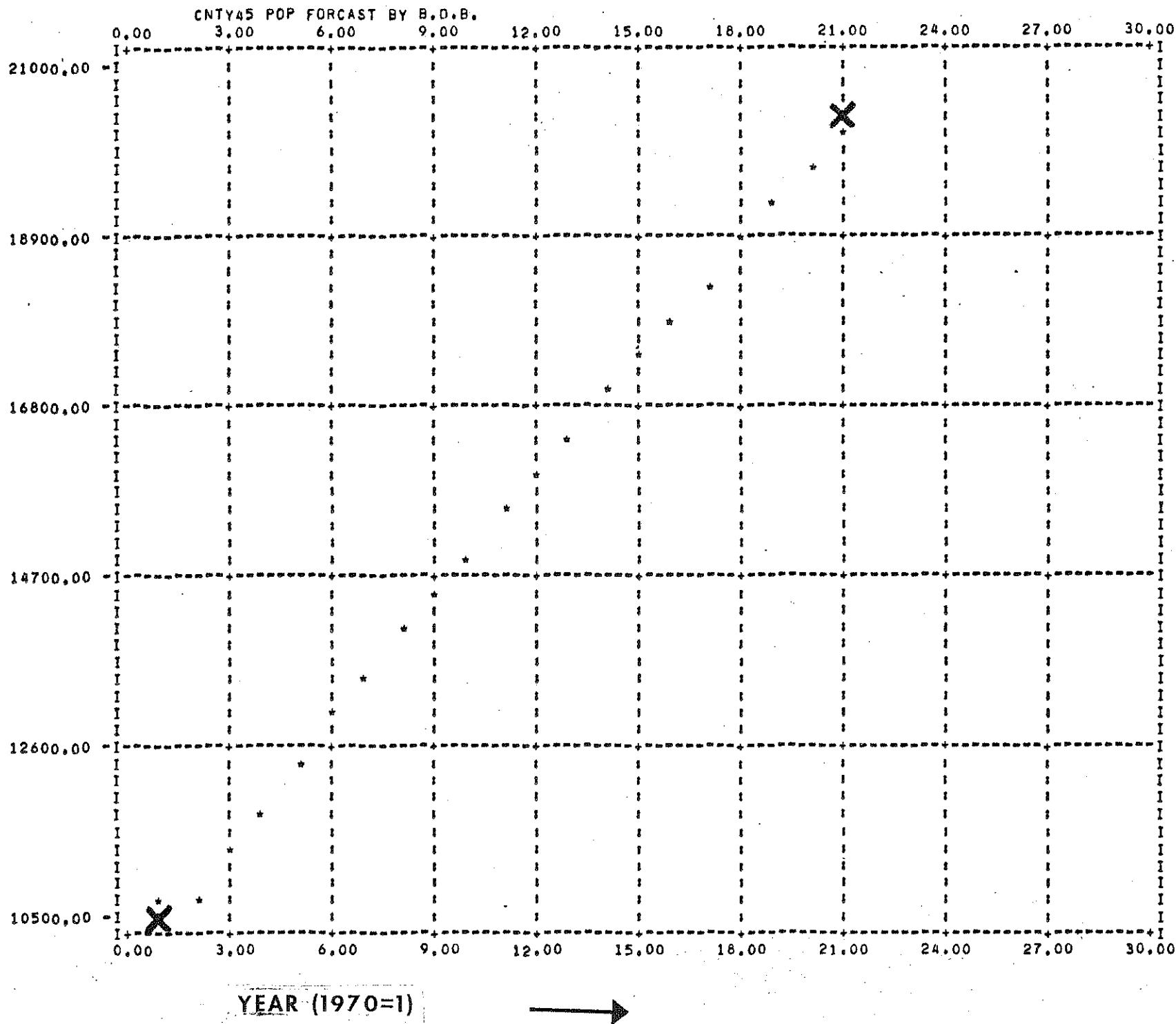
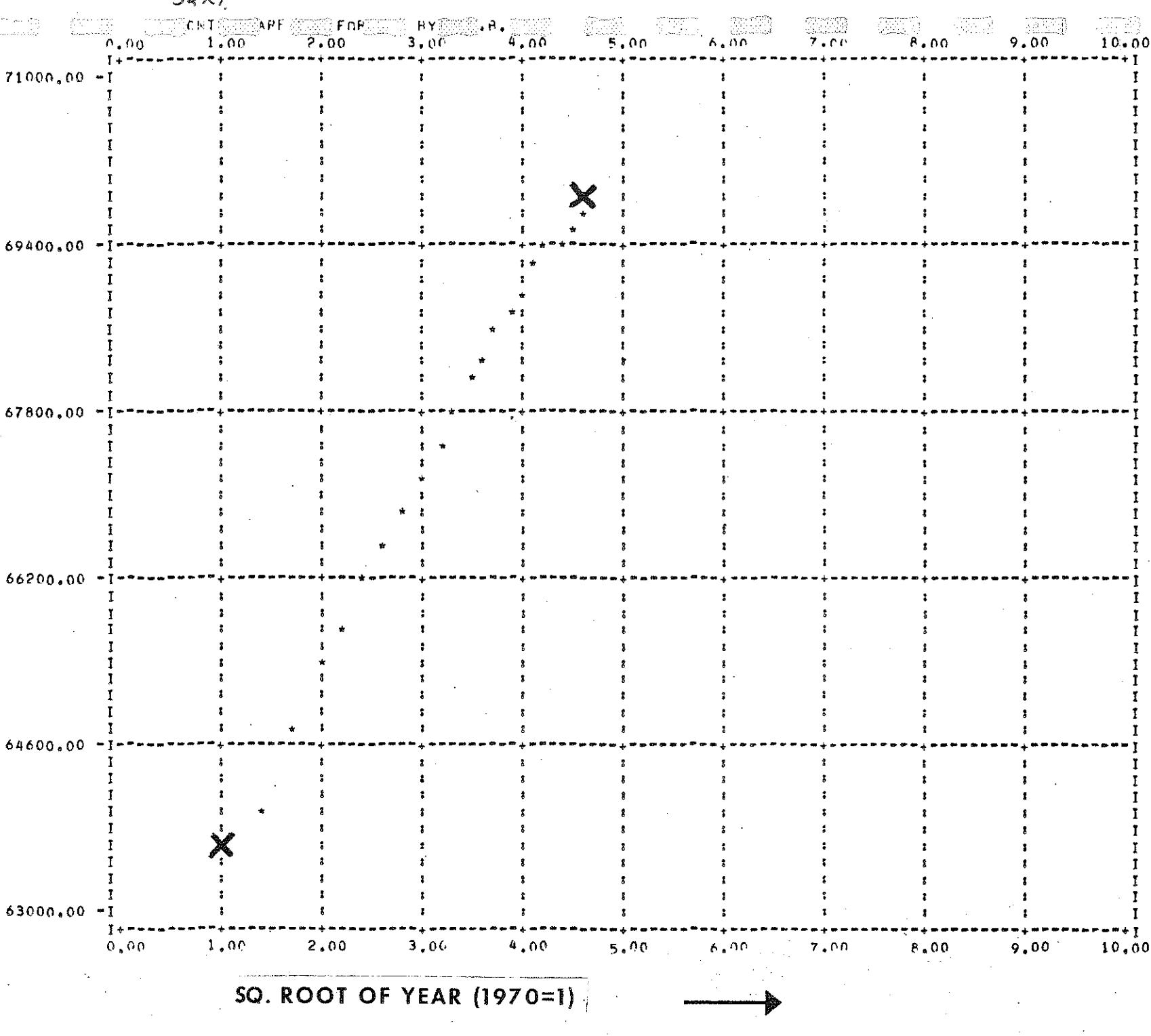


FIGURE 4

MIDLAND



The final zone projections in five year increments from 1970 to 2000 are presented in Appendix B. These populations or those in Appendix A could be used in the statewide traffic forecasting model.

APPENDIX A

STATEWIDE

A large, bold, black diagonal banner with the word "STATEWIDE" written on it spans across the center of the Michigan state outline. A thick, black, jagged arrow points from the bottom right towards the top left, intersecting the "STATEWIDE" banner.

ZONE ----	POPULATION							
	1970 ----	1975 ----	1980 ----	1985 ----	1990 ----	1995 ----	2000 ----	
1	5928	5849	6151	6250	6348	6442	6541	
2	1185	1132	1130	1125	1122	1117	1113	
3	3677	3549	3552	3554	3557	3559	3561	
4	2038	1999	2032	2057	2082	2107	2132	
5	2276	2098	2017	1953	1888	1824	1760	
6	577	564	572	576	582	588	593	
7	10961	11210	11646	12110	12573	13039	13502	
8	8280	8579	9019	9483	9947	10411	10875	
9	14104	14838	15806	16825	17845	18864	19884	
10	13302	13859	14636	15455	16272	17091	17909	
11	5264	5539	5901	6283	6665	7046	7428	
12	14664	15202	15990	16818	17649	18478	19308	
13	13805	14040	14529	15024	15518	16013	16507	
14	10625	11629	12825	14042	15258	16475	17690	
15	6278	6322	6478	6636	6795	6955	7114	
16	3509	3392	3370	3373	3376	3378	3382	
17	3646	3668	3784	3914	4045	4177	4307	
18	5457	5538	5753	5988	6223	6459	6694	
19	3515	3581	3749	3912	4074	4237	4400	
20	3015	3108	3288	3463	3638	3812	3986	
21	4619	4604	4725	4843	4960	5079	5197	
22	4403	4409	4501	4619	4739	4859	4978	
23	2433	2425	2464	2520	2576	2631	2687	
24	953	957	981	1009	1037	1065	1092	
25	6501	6483	6620	6755	6890	7025	7160	

POPULATIONS

ZONE ----	1970 ----	1975 ----	1980 ----	1985 ----	1990 ----	1995 ----	2000 ----
26	11468	11529	11871	12201	12531	12863	13193
27	10901	11052	11463	11854	12248	12641	13032
28	9296	9510	9945	10358	10772	11186	11600
29	54439	54798	56245	57780	59316	60850	62385
30	15896	17324	19053	20813	22574	24334	26095
31	21694	22328	25003	26910	28819	30726	32633
32	14890	15525	16454	17408	18361	19316	20269
33	10420	10662	10111	11577	12043	12509	12976
34	2571	2660	2821	2943	3065	3188	3310
35	3896	3840	3915	3957	3999	4041	4083
36	2126	2083	2089	2093	2098	2103	2106
37	27523	28089	28766	29691	30614	31539	32463
38	14351	15355	16433	17733	19032	20330	21630
39	33393	36361	39528	43291	47051	50813	54755
40	13448	14454	15540	16842	18143	19445	20747
41	6327	6601	6909	7290	7672	8054	8438
42	9450	10042	10679	17455	12230	13006	13781
43	12312	13198	14148	15292	16434	17579	18722
44	16024	17347	18758	20441	22124	23867	24489
45	12988	13288	13649	14131	14614	15096	15578
46	13414	15090	16863	18940	21017	23094	25171
47	4645	4827	5029	5284	5539	5794	6049
48	9099	9436	9444	10482	11020	11557	12095
49	4214	4408	4677	4964	5250	5536	5824
50	5757	5926	6198	6487	6775	7065	7354

POPULATIONS

ZONE ----	1970 ----	1975 ----	1980 ----	1985 ----	1990 ----	1995 ----	2000 ----
51	4229	4420	4686	4970	5254	5538	5822
52	4332	4471	4689	4920	5153	5383	5615
53	4434	4605	4856	5121	5387	5653	5917
54	5841	6481	7235	8038	8841	9644	10447
55	38931	37806	37055	36993	36931	36870	36808
56	4296	4391	4514	4713	4913	5112	5312
57	7670	7873	8129	8523	8915	9308	9702
58	25776	27646	29614	32052	34490	36928	39365
59	10817	11498	12229	13156	14083	15010	15937
60	6824	6969	7163	7479	7793	8108	8423
61	4961	5650	5870	6187	6503	6819	7136
62	10881	11339	11862	12581	13300	14019	14739
63	8290	8689	9131	9724	10317	10910	11503
64	2469	2574	2694	2858	3023	3188	3352
65	1683	1669	1669	1698	1728	1757	1786
66	12112	12592	13148	13923	14698	15473	16247
67	7253	7279	7360	7571	7782	7993	8203
68	6583	6889	7257	7674	8092	8509	8926
69	10991	11609	12339	13162	13984	14906	15627
70	7224	8001	8859	9818	10778	11737	12697
71	6942	7613	8361	9197	10034	10870	11707
72	2992	2977	2985	3001	3018	3034	3059
73	2949	3010	3098	3198	3299	3401	3502
74	5631	5904	6233	6605	6978	7350	7723
75	3519	3507	3830	4016	4203	4389	4576

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
76	1970	2001	2090	2166	2244	2322	2399
77	3686	3745	3911	4059	4206	4354	4501
78	7366	7450	7763	8034	8305	8579	8850
79	5553	5498	5601	5723	5845	5967	6089
80	4473	4170	4281	4405	4526	4649	5072
81	4156	4148	4248	4362	4478	4591	4703
82	2391	2361	2399	2445	2493	2539	2586
83	17148	17574	18075	19260	20446	21632	22818
84	2217	2220	2232	2321	2411	2501	2591
85	987	971	960	982	1004	1026	1048
86	1664	1701	1744	1850	1954	2057	2163
87	8342	9039	9737	10786	11835	12882	13930
88	2054	2104	2164	2297	2429	2563	2695
89	5256	5493	5836	6151	6466	6781	7096
90	6114	6379	6764	7114	7467	7818	8169
91	5325	5391	5566	5857	6146	6434	6724
92	6672	7182	7718	8356	8995	9633	10272
93	4832	5460	6123	6916	7708	8501	9294
94	4001	4221	4454	4729	5004	5279	5553
95	4994	5285	5589	5954	6317	6680	7044
96	3847	4084	4333	4630	4925	5221	5518
97	5962	6459	6979	7600	8223	8845	9467
98	3429	3725	4036	4408	4779	5150	5521
99	3017	3219	3429	3681	3933	4185	4437
100	11738	13291	14429	16886	18843	20800	22757

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
101	2143	2180	2220	2250	2290	2330	2365
102	4339	4598	4940	5344	5737	6130	6531
103	15368	15444	15942	16373	16804	17235	17666
104	3061	3120	3259	3382	3505	3628	3752
105	2226	2154	2146	2138	2128	2120	2111
106	11188	11416	11941	12400	12859	13318	13778
107	1521	1397	1319	1249	1179	1110	1039
108	2560	2467	2449	2429	2410	2389	2369
109	13978	13817	14140	14382	14623	14865	15108
110	3392	3392	3507	3598	3689	3780	3871
111	1881	1772	1731	1697	1660	1624	1588
112	4502	4444	4544	4619	4693	4768	4842
113	8244	8868	9559	10361	11163	11965	12767
114	6251	7183	7779	8470	9161	9852	10544
115	5629	5998	6405	6879	7351	7823	8297
116	3734	3935	4162	4426	4690	4954	5217
117	18588	21064	23737	26848	29959	33071	36182
118	3687	3970	4281	4642	5003	5362	5723
119	4306	4621	4966	5368	5771	6172	6574
120	3444	3628	3836	4077	4318	4559	4799
121	4483	4872	5296	5789	6281	6774	7266
122	4494	4808	5159	5565	5971	6376	6782
123	6032	6459	6931	7478	8025	8572	9119
124	6342	6391	6606	6829	7052	7276	7499
125	2755	2648	2614	2593	2572	2553	2532

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
126	5112	5139	5296	5460	5625	5787	5952
127	4122	4252	4480	4711	4942	5172	5403
128	193317	204924	219170	235792	252415	269037	285659
129	11716	13004	14500	16292	18084	19876	21668
130	47274	53557	60747	69410	78071	86735	95396
131	38518	42610	47851	53846	59841	65836	71832
132	24361	27542	31186	35579	39971	44363	48755
133	32540	36889	41873	47880	53887	59895	65902
134	13519	15242	17215	19591	21967	24343	26719
135	5535	6087	6732	7501	8271	9040	9809
136	25589	28857	32618	36133	39647	43162	46676
137	9330	10288	11402	12734	14066	15397	16729
138	6468	7186	8017	9015	10012	11010	12007
139	13051	14536	16247	18300	20353	22405	24458
140	20035	22379	25079	28321	31563	34806	38048
141	3089	3294	3541	3830	4119	4409	4698
142	2071	2130	2190	2250	2310	2374	2430
143	5094	5260	5470	5660	5854	6045	6238
144	2539	2618	2742	2847	2954	3055	3164
145	3767	3798	3875	3940	4005	4070	4135
146	10967	10648	10403	10163	9924	9684	9444
147	3213	3140	3083	3022	2963	2903	2844
148	635	604	579	557	535	513	492
149	711	687	670	653	635	618	601
150	5150	4926	4743	4586	4420	4271	4114

2010 Population Projections

ZONE	1970	1975	1980	1985	1990	1995	2000
151	20690	21701	23001	24425	25848	27271	28694
152	9384	10247	11251	12347	13444	14540	15638
153	5485	5899	6400	6947	7493	8038	8585
154	1158	1123	1100	1077	1054	1030	1007
155	2458	2609	2794	2999	3204	3409	3613
156	13891	14533	15326	16151	16977	17802	18628
157	9090	9321	9663	10022	10383	10741	11103
158	8197	8560	9015	9490	9963	10437	10911
159	5319	5366	5575	5596	5719	5843	5965
160	2749	2896	3072	3255	3438	3620	3803
161	7728	7980	8208	8438	8668	8898	9128
162	4304	4465	4613	4758	4904	5049	5195
163	3487	3507	3518	3540	3562	3523	3605
164	4514	4727	4920	5110	5300	5490	5681
165	4042	4133	4213	4297	4380	4463	4547
166	3838	3985	4119	4253	4387	4521	4654
167	4449	4622	4780	4936	5092	5248	5405
168	4809	4953	5084	5217	5350	5484	5617
169	10887	10734	10985	11166	11346	11526	11705
170	12167	11820	11945	12013	12082	12148	12217
171	2632	2598	2664	2711	2758	2805	2852
172	948	908	907	904	900	896	891
173	1655	1541	1496	1454	1411	1369	1326
174	2579	2618	2750	2705	2659	2614	2569
175	3784	3552	3474	3397	3320	3244	3166

P O P U L A T I O N S

ZONE	1970	1975	1980	1985	1990	1995	2000
176	2999	3088	3220	3373	3526	3679	3831
177	7040	7162	7388	7666	7945	8224	8503
178	4134	4202	4335	4496	4658	4818	4980
179	5584	5672	5841	6052	6262	6473	6683
180	3743	3813	3938	4092	4246	4399	4555
181	6857	7038	7317	7645	7972	8299	8628
182	3726	3796	3923	4076	4230	4383	4537
183	189021	203447	219328	237688	256049	274410	292771
184	23817	26948	30335	34284	38233	48182	46131
185	13795	15463	17278	19392	21506	23621	25735
186	9871	10658	11529	12536	13544	14552	15560
187	7580	7990	8452	8983	9514	10046	10577
188	3990	4491	4845	5254	5664	6073	6483
189	2373	2471	2582	2711	2839	2968	3096
190	3968	4119	4293	4490	4688	4886	5084
191	6624	7065	7557	8124	8691	9257	9824
192	6361	6481	6712	6957	7201	7445	7689
193	4964	5181	5487	5803	6120	6436	6753
194	4663	4835	5090	5355	5619	5883	6140
195	2565	2630	2741	2856	2972	3088	3203
196	4855	5008	5245	5492	5738	5986	6233
197	3688	3825	4028	4239	4450	5381	4871
198	4047	4151	4327	4510	4694	4878	5062
199	6398	6695	7106	7532	7955	8380	8806
200	8307	8632	9104	9589	10077	10566	11054

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
201	3379	3890	4374	5019	5664	6309	6953
202	5380	6398	7411	8814	10215	11618	13020
203	4388	4877	5300	5824	6347	6871	7396
204	11758	14805	17995	22555	27116	31676	36237
205	3664	3820	4048	4288	4527	4767	5007
206	4049	4192	4411	4645	4878	5112	5346
207	3499	3625	3814	4016	4218	4419	4621
208	764	782	812	846	880	914	948
209	1837	1917	2031	2151	2273	2393	2514
210	20504	21895	23029	24962	26895	28828	30761
211	5355	5551	5687	6013	6338	6663	6988
212	3512	3549	3554	3673	3792	3910	4029
213	5255	5204	5104	5164	5224	5284	5342
214	5885	6298	6641	7215	7788	8362	8935
215	4083	4118	4112	4237	4362	4490	4615
216	45484	45061	44847	45496	46145	46795	47444
217	21754	23457	25194	27433	29672	31910	34149
218	11783	12483	13154	14190	15176	16161	17146
219	19705	20606	21553	22923	24293	25664	27034
220	16923	17925	18959	20369	21779	23190	24601
221	7288	7860	8408	9123	9839	10554	11268
222	6363	6701	7054	7547	8041	8535	9028
223	4881	5075	5282	5592	5903	6214	6525
224	3711	21329	22093	23289	24485	25681	26877
225	5382	5734	6094	6576	7058	7540	8022

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
226	109883	115931	122935	130878	138823	146767	154712
227	33590	38302	43420	49255	55090	60925	66760
228	10465	11435	12514	13741	14968	16195	17422
229	4042	4354	4703	5101	5498	5894	6292
230	15884	17562	19418	21530	23643	25757	27869
231	8650	9383	10210	11147	12084	13021	13958
232	3964	4247	4568	4934	5299	5663	6028
233	15072	16122	17312	18664	20016	21368	22721
234	3945	4004	4167	4314	4458	4604	4748
235	1327	1245	1207	1214	1219	1225	1231
236	210214	215648	223351	231991	240630	249269	257908
237	9722	10677	11759	12956	14153	15350	16548
238	28337	31118	34262	37751	41240	44728	48216
239	14629	15864	17283	18859	20436	22011	23588
240	5271	5588	5970	6393	6817	7240	7664
241	16287	17955	19835	21921	24005	26091	28176
242	6823	7572	8410	9341	10271	11201	12131
243	5510	5895	6350	6852	7355	7857	8360
244	6628	6909	7263	7659	8055	8450	8846
245	8497	9054	9714	10445	11179	11913	12645
246	11492	12711	14093	15624	17156	18688	20219
247	20310	22615	25200	28065	30931	33796	36662
248	67324	74335	82212	90947	99683	106417	117153
249	2264	2219	2287	2338	2391	2444	2496
250	3879	3893	3993	4109	4226	4342	4457

ZONE ----	1970	1975	1980	1985	1990	1995	2000
	----	----	----	----	----	----	----
251	1782	1692	1656	1633	1606	1580	1556
252	6270	6439	6764	7107	7450	7794	8137
253	5622	5815	6145	6496	6847	7199	7549
254	5206	5306	5529	5766	6003	6242	6479
255	7398	7742	8263	8816	9369	9921	10475
256	9650	10046	10675	11342	12009	12677	13345
257	8729	9331	10150	11017	11882	12750	13616
258	9442	9802	10392	11016	11639	12265	12887
259	3849	3902	4037	4184	4329	4476	4621
260	2596	2679	2818	2965	3111	3258	3406
261	4427	4673	5008	5363	5719	6074	6430
262	20382	20828	21730	22637	23544	24451	25358
263	5493	5539	5711	5884	6057	6231	6404
264	10374	10353	10573	10794	11018	11239	11463
265	3977	4148	4405	4662	4919	5175	5432
266	18102	18942	20186	21421	22656	23891	25126
267	5106	5066	5147	5231	5314	5398	5482
268	7541	7933	8488	9040	9593	10144	10696
269	5218	5147	5198	5252	5309	5365	5420
270	5416	5564	5833	6102	6370	6640	6909
271	10318	10932	11593	12364	13135	13906	14677
272	6987	7207	7443	7706	7969	8232	8496
273	10297	11201	12173	13321	14470	15617	16765
274	13079	15068	17200	19756	22312	24868	27422
275	13139	14734	16441	18478	20514	22551	24588

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
276	5147	5609	6107	6695	7283	7871	8460
277	3575	3442	3420	3418	3416	3413	3411
278	908	859	841	830	818	806	795
279	2306	2284	2328	2373	2419	2465	2510
280	3437	3512	3669	3809	3947	4086	4224
281	2793	2849	2971	3079	3187	3295	3404
282	1490	1433	1462	1496	1530	1564	1597
283	1940	1899	1909	1914	1920	1926	1931
284	88096	100018	115471	132270	149070	165869	182670
285	206545	258142	325497	396050	466603	537157	607710
286	189639	230221	283068	334900	386732	438563	490395
287	94336	115048	142027	168803	195579	222355	249131
288	18755	21331	24681	27107	29533	31959	34385
289	14559	13875	12932	12718	12505	12290	12076
290	13379	11068	8795	8726	8655	8585	8514
291	13422	13727	14345	14732	15119	15508	15895
292	1305	1320	1365	1390	1415	1440	1464
293	1717	1684	1691	1679	1665	1654	1641
294	3650	3695	3825	3899	3973	4045	4118
295	21967	24097	26393	29095	31798	34500	37203
296	9327	10591	11943	13543	15147	16748	18351
297	4379	4852	5359	5957	6554	7152	7750
298	8844	9870	10973	12275	13578	14881	16184
299	13493	14273	15121	16104	17087	18070	19052
300	3463	3964	4500	5135	5770	6404	7039

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
301	3213	3319	3432	3561	3690	3819	3951
302	9021	9089	9401	9676	9950	10225	10499
303	3609	3591	3668	3734	3800	3867	3932
304	5150	5227	5433	5619	5804	5988	6174
305	4832	4975	5237	5476	5613	5952	6190
306	11995	12807	13860	14938	16015	17093	18171
307	5238	5368	5605	5853	6103	6351	6601
308	3231	3219	3273	3333	3393	3453	3514
309	3756	3737	3796	3861	3928	3995	4061
310	3772	3835	3970	4115	4260	4404	4548
311	10748	10924	11431	11886	12341	12796	13251
312	3873	3766	3787	3800	3813	3793	3838
313	6950	7063	7394	7692	7988	8286	8584
314	3016	2944	2972	2992	3013	3034	3055
315	34921	39265	43865	49297	54728	60160	65591
316	5361	5381	5397	5471	5548	5622	5698
317	10027	10463	10916	11431	11948	12464	12981
318	5876	6329	6804	7069	7331	7595	7860
319	7584	8256	8964	9790	10618	11445	12272
320	3662	3537	3530	3518	3509	3499	3490
321	1353	1282	1257	1237	1216	1195	1175
322	2111	1978	1923	1877	1831	1789	1740
323	23894	24586	25483	26475	27465	28456	29447
324	20875	23175	25714	28583	31451	34320	37189
325	5510	5902	6346	6845	7345	7844	8344

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
326	4911	5075	5276	5500	5723	5947	6170
327	5869	6377	6947	7589	8231	8874	9516
328	6980	7392	7868	8400	8932	9464	9996
329	24036	26772	29788	33198	36609	40020	43430
330	7221	7544	7928	8358	8787	9216	9646
331	4151	4547	4987	5485	5982	6479	6977
332	5170	5430	5735	6077	6418	6760	7101
333	5803	6259	6772	7350	7928	8505	9083
334	4059	4315	4608	4937	5267	5596	5926
335	7493	7894	8446	9021	9597	10172	10747
336	8106	8351	8756	9180	9603	10027	10450
337	6490	6706	7051	7412	7773	8134	8495
338	6513	6881	7376	7896	8414	8934	9452
339	5406	5569	6138	6116	6397	6676	6957
340	5652	5877	6212	6561	6910	7259	7608
341	5247	5213	5329	5376	5425	5471	5517
342	66178	64899	64709	64607	64505	64405	64303
343	5440	5983	6615	7278	7941	8604	9266
344	13754	14937	16356	17844	19333	20821	22310
345	26447	28999	31997	35138	38279	41420	44561
346	2214	2345	2513	2690	2868	3045	3222
347	3367	3383	3457	3537	3616	3697	3776
348	6828	7372	8026	8715	9404	10093	10782
349	6690	7330	8080	8867	9654	10442	11229
350	11840	12662	13679	14749	15822	16891	17962

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
351	14668	15855	17282	18779	20278	21776	23274
352	3465	3610	3820	4038	4256	4473	4691
353	3753	3787	3891	4009	4128	4247	4363
354	5380	5482	5688	5903	6119	6332	6547
355	5257	5515	5870	6237	6604	6970	7338
356	5031	5233	5532	5842	6150	6459	6768
357	5106	5251	5486	5734	5982	6229	6477
358	85279	79415	73248	62398	51548	40698	29849
359	88235	103925	122404	142662	162920	183178	203437
360	274580	313087	359002	407369	455737	504104	552472
361	72630	84336	98175	113110	128047	142982	157919
362	62270	72757	85225	98737	112248	125761	139273
363	19392	21585	24216	26856	29498	32139	34779
364	24626	29057	34279	40015	45751	51487	57223
365	29939	34136	39121	44369	49614	54862	60108
366	35361	40130	45788	51695	57601	63507	69414
367	39419	43018	47355	51443	55531	59620	63708
368	31567	34975	39050	43086	47123	51159	55195
369	13219	14809	16702	18628	20555	22481	24407
370	61137	70685	81956	94049	106142	118235	130328
371	9898	10260	10735	10985	11234	11484	11733
372	6958	7270	7667	8363	9058	9754	10449
373	20160	23139	26668	30417	34166	37914	41663
374	21903	24652	27922	31281	34641	38000	41361
375	11298	11714	12256	12542	12827	13113	13398

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
376	4725	4691	4798	4900	5002	5103	5206
377	6606	6497	6593	6685	6778	6869	6962
378	4628	4654	4814	4962	5109	5255	5402
379	2025	2020	2073	2124	2175	2225	2276
380	5345	5339	5474	5620	5766	5912	6059
381	3386	3291	3293	3310	3326	3344	3361
382	3172	3174	3258	3349	3442	3533	3624
383	3751	3836	3990	4147	4305	4462	4620
384	1677	1656	1667	1681	1695	1708	1722
385	2625	2623	2672	2724	2777	2830	2883
386	2495	2695	2934	3170	3406	3642	3877
387	4419	4528	4762	4963	5163	5363	5564
388	3951	3990	4143	4267	4393	4518	4643
389	3086	3063	3130	3181	3232	3285	3335
390	3382	3365	3449	3513	3579	3644	3707
391	4726	4782	5005	5155	5306	5457	5607
392	3012	3221	3448	3699	3950	4201	4452
393	4088	4452	4845	5281	5716	6150	6586
394	3322	3509	3717	3946	4174	4403	4631
395	22991	24762	26652	28866	31080	33294	35509
396	9652	10481	11362	12397	13432	14466	15500
397	6952	7496	8074	8753	9433	10112	10792
398	24064	27123	30373	34211	38051	41890	45728
399	22053	23912	25898	28227	30557	32886	35215
400	10690	11841	13066	14512	15958	17405	18851

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
401	6481	6960	7473	8071	8671	9269	9868
402	17630	19500	21494	23845	26196	28547	30897
403	7668	8091	8539	9063	9586	10109	10633
404	6846	7119	7519	7892	8263	8635	9007
405	3351	3388	3488	3577	3666	3756	3845
406	2639	2742	2897	3039	3181	3322	3465
407	6620	6993	7449	7965	8484	9004	9521
408	3272	3293	3464	3685	3907	4128	4349
409	91849	95330	99915	105035	110155	115274	120394
410	4031	4344	4707	5111	5516	5920	6324
411	38186	42805	47958	53693	59428	65161	70895
412	15868	17484	19317	21357	23396	25436	27476
413	8585	9447	10422	11506	12591	13675	14760
414	4799	5061	5378	5733	6088	6443	6797
415	12896	14300	15874	17625	19376	21127	22877
416	7716	8257	8895	9605	10316	11027	11737
417	7789	8150	8600	9100	9601	10102	10604
418	4854	4957	5113	5287	5459	5633	5807
419	1865	1941	2038	2146	2255	2364	2472
420	7833	8326	8916	9575	10234	10891	11550
421	5658	6134	6683	7294	7903	8514	9125
422	7814	8363	9010	9731	10454	11175	11896
423	6588	6844	7238	7630	8023	8415	8808
424	4629	4713	4893	5077	5260	5443	5626
425	6624	6818	7144	7473	7805	8135	8466

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
426	4966	4931	5007	5089	5170	5252	5333
427	3805	3856	3987	4122	4259	4394	4530
428	4319	4477	4724	4973	5220	5468	5715
429	3958	4034	4195	4358	4520	4684	4846
430	4324	4113	4068	4044	4020	3996	3972
431	1601	1542	1541	1545	1549	1553	1555
432	2301	2210	2206	2207	2207	2209	2211
433	17179	17817	18731	19714	20697	21679	22662
434	4186	4364	4610	4874	5138	5403	5667
435	10227	10688	11317	11990	12664	13337	14012
436	7121	7606	8207	8851	9494	10137	10781
437	6328	6767	7313	7895	8475	9056	9637
438	4648	4857	5140	5446	5753	6058	6364
439	2822	2891	3007	3132	3257	3382	3508
440	3826	3962	4162	4377	4591	4805	5020
441	6738	7168	7707	8284	8860	9435	10012
442	56114	57415	59841	62318	64797	67274	69752
443	15587	16242	17203	18078	19152	20127	21103
444	16817	17567	18654	19749	20843	21937	23032
445	6152	6509	6988	7471	7953	8436	8918
446	5028	5174	5421	5672	5923	6174	6424
447	5849	6168	6604	7042	7481	7918	8357
448	3392	3337	3356	3371	3391	3411	3431
449	4800	4782	4861	4948	5034	5119	5205
450	3220	3211	3264	3324	3382	3441	3499

POPULATIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
451	3216	3227	3302	3382	3463	3543	3623
452	10744	11177	11791	12438	13086	13737	14380
453	5001	5198	5479	5776	6072	6369	6666
454	6322	6640	7064	7510	7956	8402	8848
455	7027	7462	8013	8594	9174	9755	10336
456	3000	3096	3242	3397	3552	3707	3862
457	4283	4561	4909	5273	5639	6004	6369
458	3660	3839	4083	4337	4591	4846	5100
459	7355	7451	7668	7901	8134	8367	8600
460	3701	3803	3981	4163	4344	4526	4707
461	4345	4490	4707	4932	5155	5379	5603
462	6031	6350	6785	7229	7672	8117	8560
463	4696	4932	5260	5594	5928	6262	6596
464	4438	4489	4623	4764	4906	5047	5187
465	4653	4818	5073	5335	5598	5861	6122
466	4417	4537	4743	4954	5166	5377	5588
467	2897	2929	3020	3113	3206	3300	3394
468	6232	6500	6889	7284	7680	8077	8473
469	2802	2902	3060	3220	3380	3540	3700
470	4391	4451	4598	4750	4903	5056	5207
471	6471	6811	7233	7696	8159	8623	9086
472	9966	10528	11217	11973	12730	13488	14244
473	9529	10022	10638	11313	11988	12664	13339
474	7196	7554	8004	8495	8988	9480	9973
475	4625	4798	5026	5280	5533	5786	6039

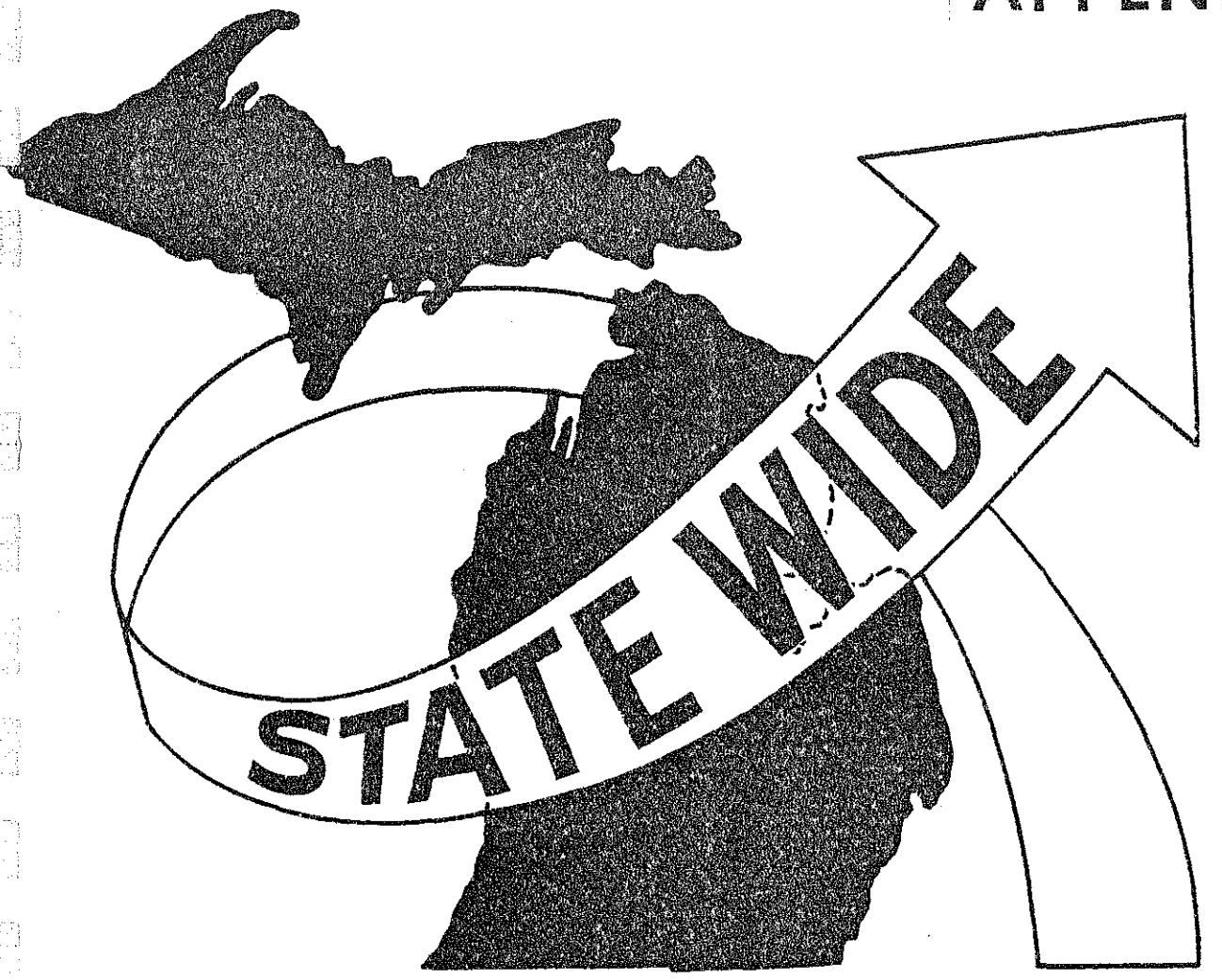
POPULATIONS

ZONE ----	1970 ----	1975 ----	1980 ----	1985 ----	1990 ----	1995 ----	2000 ----
476	6075	6520	7044	7619	8194	8769	9344
477	3401	3637	3917	4225	4533	4841	5149
478	8910	9504	10216	10994	11774	12553	13332
479	99797	116828	137993	169072	200151	231230	262309
480	3589	3876	4244	4717	5190	5662	6135
481	8185	9341	10786	12857	14927	16998	19069
482	9211	10406	11904	14023	16142	18261	20380
483	29538	32825	36980	42716	48452	54189	59925
484	33194	40659	49889	63822	77754	91687	105619
485	5562	6612	7917	9855	11793	13732	15670
486	13834	15190	16922	19254	21586	23919	26251
487	7667	8411	9351	10617	11883	13147	14413
488	3302	3426	3595	3753	3910	4069	4226
489	2856	3090	3390	3779	4168	4557	4946
490	6781	7454	8310	9465	10621	11776	12932
491	3611	4126	4772	5699	6625	7552	8478
492	6976	7899	9053	10694	12336	13976	15617
493	487934	477336	468782	473112	477442	481772	486105
494	203566	216299	228512	245898	263284	280670	298056
495	604059	591010	580418	585779	591141	596502	601867
496	482178	471791	463336	467616	471896	476176	480459
497	216025	228262	240041	257325	274609	291892	309176
498	70020	75916	81516	88876	96237	103597	110957
499	73727	78815	83675	90402	97129	103854	110581
500	46538	49100	51567	55222	58878	62534	66187

ZONE ----	POPULATIONS OF ZONE						
	1970 ----	1975 ----	1980 ----	1985 ----	1990 ----	1995 ----	2000 ----
501	179990	194071	207502	225470	243438	261405	279373
502	151916	164029	175532	190865	206197	221530	236861
503	78894	84359	89542	96727	103910	111152	118269
504	71901	78702	85139	93376	101613	109851	118088
505	9990	10023	10336	10623	10911	11198	11486
506	5128	5205	5503	5725	5942	6162	6381
507	1937	1882	1884	1888	1891	1894	1896
508	2662	2648	2708	2763	2819	2876	2932
509	312000	356000	396000	434000	474000	515000	556000
510	124800	142400	158400	173600	189600	206000	222400
511	733200	836600	930600	1019900	1113900	1210250	1306600
512	2176200	2483100	2762100	3027150	3306150	3592125	3878100
513	4453800	5081900	5652900	6195350	6766350	7351625	7936900
514	6410	6816	7350	7986	8694	9513	10332
515	30623	32603	35158	38200	41586	45503	49421
516	33183	35330	38098	41394	45064	49309	53554
517	6003	8520	9188	9983	10868	11891	12915
518	3414	3635	3920	4259	4637	5073	5510
519	36598	38965	42018	45653	49701	54383	59065
520	743967	839987	907851	986961	1076954	1182307	1287660
521	3789839	3973553	4293749	4667676	5092270	5588839	6085409
522	840582	894941	965055	1048562	1141522	1249057	1356592
523	2319978	2470005	2663518	2893993	3150561	3447353	3744145
524	440564	469054	505803	549570	598292	654653	711014
525	7393294	7869014	8526367	9255782	9999999	9999999	9999999

POPULATIONS

APPENDIX B



ZONE POPULATIONS BASED ON 8.0% CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
1	5928	7173	7457	7879	8296	8622	8992
2	1185	1433	1490	1575	1658	1723	1797
3	3679	3516	3618	3854	4115	4210	4383
4	2038	1947	2005	2134	2280	2332	2428
5	2275	2174	2238	2383	2545	2603	2711
6	576	551	567	603	645	659	686
7	10958	11565	11704	11666	11424	12037	12127
8	8281	8740	8846	8817	8634	9097	9165
9	14107	14888	15068	15018	14707	15496	15612
10	13301	14038	14207	14161	13867	14611	14721
11	5266	5557	5624	5606	5490	5784	5828
12	14662	15476	15661	15609	15286	16108	16227
13	13808	15286	16849	18406	19781	21431	22965
14	10624	11762	12965	14163	15221	16491	17672
15	6276	6948	7659	8367	8992	9742	10440
16	3508	4125	4781	5539	6358	6969	7677
17	3646	4287	4969	5756	6607	7242	7978
18	5458	6418	7438	8618	9890	10842	11942
19	3515	3892	4066	4296	4515	4710	4918
20	3014	3338	3487	3684	3872	4040	4217
21	4620	5116	5344	5647	5935	6191	6464
22	4403	4265	4387	4631	4944	5542	5771
23	2433	2356	2423	2558	2732	3062	3188
24	953	923	949	1002	1070	1200	1249
25	6499	7109	7689	8311	8933	9522	10126

ZONE POPULATIONS BASED ON B.O.B6 CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
26	11470	12547	13569	14668	15765	16804	17871
27	10900	11923	12894	13938	14982	15969	16982
28	9297	10170	10998	11889	12778	13620	14485
29	54436	56204	57497	58407	58755	59790	60422
30	15899	16415	16793	17059	17160	17463	17648
31	21695	22400	22916	23278	23417	23829	24082
32	14890	15374	15727	15976	16071	16354	16528
33	10419	10758	11005	11179	11246	11444	11565
34	2571	2684	2819	3039	3316	3421	3605
35	3897	4070	4272	4608	5026	5187	5465
36	2125	2219	2331	2513	2741	2829	2981
37	27531	27769	28862	30223	31568	32273	33316
38	14355	14479	15049	15759	16460	16828	17372
39	33369	33660	34983	36631	38261	39118	40380
40	13454	13570	14104	14769	15427	15771	16281
41	6325	6380	6631	6944	7253	7415	7654
42	9455	9537	9912	10380	10842	11084	11442
43	12307	12413	12902	13510	14111	14427	14893
44	16026	16165	16801	17594	18377	18787	19394
45	12995	13107	13623	14266	14900	15234	15726
46	13421	13537	14070	14733	15389	15733	16241
47	4637	4677	4861	5091	5317	5436	5612
48	9096	9582	9994	10529	11059	11475	11949
49	4215	4439	4631	4878	5125	5317	5536
50	5757	6064	6326	6664	7001	7264	7563

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
51	4230	4455	4648	4896	5143	5337	5556
52	4332	4563	4760	5014	5268	5466	5691
53	4435	4671	4873	5133	5392	5595	5825
54	5841	6152	6418	6761	7102	7369	7672
55	38931	38654	39409	40185	40809	41329	41935
56	4301	4270	4354	4439	4508	4566	4633
57	7666	7611	7760	7912	8035	8138	8257
58	25780	25596	26097	26609	27022	27368	27769
59	10817	10740	10950	11165	11338	11483	11652
60	6828	6779	6912	7048	7157	7249	7355
61	4954	4919	5015	5113	5193	5259	5336
62	10874	10796	11007	11224	11398	11544	11713
63	8290	8231	8392	8557	8690	8801	8930
64	2470	2452	2500	2549	2589	2622	2660
65	1689	1677	1710	1743	1770	1793	1819
66	12109	12022	12258	12498	12693	12855	13043
67	7254	7202	7343	7487	7603	7701	7813
68	6583	6442	6702	7097	7540	7761	8085
69	10992	10757	11190	11849	12589	12957	13499
70	7224	7070	7355	7788	8274	8516	8872
71	6942	6794	7068	7485	7952	8184	8527
72	2992	2929	3046	3226	3428	3528	3675
73	2949	2886	3002	3179	3378	3477	3622
74	5630	5510	5732	6070	6449	6637	6915
75	3518	3696	3807	3984	4169	4285	4433

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
76	1970	2069	2131	2230	2334	2399	2482
77	3685	3871	3987	4173	4367	4488	4644
78	7368	7742	7974	8344	8734	8976	9287
79	5553	6758	8111	9500	10853	12204	13561
80	4473	5443	6532	7652	8742	9830	10924
81	4156	5058	6070	7110	8124	9135	10151
82	2391	2910	3492	4091	4674	5255	5840
83	17150	18784	20227	21866	23320	24851	26365
84	2216	2428	2615	2826	3015	3212	3408
85	988	1082	1166	1260	1344	1432	1519
86	1662	1821	1961	2120	2261	2409	2556
87	8342	9138	9841	10638	11345	12090	12827
88	2054	2250	2423	2620	2794	2978	3159
89	5255	6600	8120	9761	11485	12941	14520
90	6115	7679	9448	11357	13361	15055	16893
91	5325	6688	8229	9892	11638	13113	14714
92	6672	6691	6902	7203	7541	7675	7908
93	4829	4843	4996	5214	5458	5555	5724
94	4000	4012	4138	4318	4521	4602	4741
95	4994	5009	5166	5392	5645	5745	5920
96	3845	3856	3977	4151	4346	4423	4557
97	5959	5976	6165	6433	6736	6855	7063
98	3428	3438	3546	3701	3874	3943	4063
99	3016	3024	3120	3256	3409	3469	3575
100	11749	11783	12153	12683	13279	13516	13925

ZONE POPULATIONS BASED ON 8.0.8. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
101	2142	2495	2850	3270	3727	4061	4452
102	4340	5053	5773	6622	7549	8224	9015
103	15371	17002	18920	21067	23247	25094	27103
104	3060	3385	3767	4195	4629	4996	5397
105	2227	2463	2741	3052	3368	3636	3927
106	11186	12373	13770	15333	16919	18263	19726
107	1519	1680	1870	2082	2298	2480	2679
108	2561	2833	3152	3510	3874	4181	4516
109	13980	14591	15077	15450	15558	16223	16639
110	3391	3540	3657	3748	3774	3935	4036
111	1881	1963	2028	2079	2093	2182	2238
112	4501	4698	4854	4974	5009	5222	5357
113	8246	8960	9491	10126	10769	11379	12000
114	6248	6789	7191	7673	8160	8622	9093
115	5628	6115	6478	6911	7350	7767	8190
116	3733	4057	4297	4585	4876	5153	5433
117	18594	20200	21399	22830	24280	25648	27048
118	3685	4004	4242	4526	4813	5086	5363
119	4305	4678	4955	5287	5623	5942	6266
120	3444	3742	3964	4230	4498	4753	5012
121	4484	4872	5161	5507	5857	6189	6526
122	4491	4880	5169	5515	5866	6198	6536
123	6034	6557	6946	7410	7881	8328	8782
124	6342	7212	8012	8849	9681	10503	11329
125	2755	3132	3480	3844	4205	4562	4921

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
126	5112	5813	6458	7133	7803	8466	9132
127	4122	4687	5208	5752	6292	6827	7364
128	193251	198756	208965	220265	231083	239860	249778
129	11730	12064	12684	13370	14027	14560	15162
130	47277	48624	51122	53887	56533	58681	61108
131	38524	39621	41657	43909	46066	47816	49793
132	24349	25043	26329	27753	29117	30223	31472
133	32525	33452	35170	37072	38893	40370	42040
134	13507	13892	14606	15396	16152	16766	17459
135	5554	5712	6005	6330	6641	6893	7179
136	25594	26323	27675	29171	30604	31767	33081
137	9331	9597	10089	10635	11158	11581	12060
138	6487	6672	7014	7394	7757	8052	8385
139	13063	13435	14125	14889	15621	16214	16885
140	20039	20610	21669	22841	23963	24873	25902
141	3110	3199	3363	3545	3719	3860	4020
142	2070	2521	2966	3395	3825	4277	4718
143	5096	6206	7301	8357	9413	10527	11611
144	2539	3092	3638	4164	4691	5246	5786
145	3766	4587	5396	6176	6958	7781	8583
146	10968	10632	10576	10835	11105	11370	11637
147	3213	3114	3097	3173	3253	3330	3408
148	634	615	611	627	642	658	673
149	711	689	685	702	720	737	754
150	5150	4992	4965	5087	5214	5339	5464

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
151	20694	22850	23984	25243	26426	27831	29122
152	9382	10359	10874	11444	11980	12618	13203
153	5484	6055	6356	6690	7003	7376	7718
154	1159	1280	1343	1414	1480	1559	1631
155	2456	2712	2846	2996	3136	3303	3456
156	13895	14107	14127	14272	14435	14481	14581
157	9089	9228	9241	9335	9442	9473	9538
158	8198	8323	8335	8420	8517	8544	8603
159	5317	5399	5406	5461	5524	5542	5580
160	2747	2789	2793	2821	2853	2863	2882
161	7732	8509	9297	10148	10999	11789	12607
162	4304	4737	5176	5650	6124	6563	7020
163	3486	3837	4193	4577	4960	5316	5686
164	4512	4966	5427	5924	6420	6881	7359
165	4040	4446	4859	5304	5748	6161	6589
166	3839	4225	4617	5040	5463	5855	6262
167	4449	4896	5351	5841	6330	6784	7256
168	4809	5293	5784	6314	6843	7334	7844
169	10887	11831	12704	13692	14731	15586	16525
170	12166	13221	14196	15299	16460	17414	18463
171	2633	2861	3072	3312	3563	3770	3997
172	949	1031	1107	1194	1284	1359	1441
173	1656	1799	1932	2083	2241	2371	2513
174	2578	2801	3008	3242	3488	3690	3912
175	3783	4112	4415	4758	5120	5416	5743

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
176	2999	3157	3273	3443	3631	3744	3891
177	7044	7415	7689	8088	8529	8794	9140
178	4134	4351	4512	4747	5006	5161	5364
179	5582	5876	6093	6410	6760	6970	7244
180	3742	3939	4084	4297	4531	4672	4856
181	6857	7218	7485	7874	8303	8561	8898
182	3725	3921	4066	4277	4510	4650	4834
183	189049	198770	209296	220000	230132	241033	251616
184	23806	25031	26356	27704	28980	30353	31685
185	13782	14491	15259	16039	16778	17572	18344
186	9867	10374	10924	11482	12011	12580	13132
187	7570	7959	8380	8809	9215	9651	10075
188	3993	4199	4421	4647	4861	5092	5315
189	2375	2497	2629	2764	2891	3028	3161
190	3967	4171	4392	4617	4830	5058	5280
191	6630	6971	7340	7715	8071	8453	8824
192	6359	6832	7258	7709	8126	8576	9014
193	4965	5334	5667	6019	6345	6697	7038
194	4662	5009	5321	5652	5958	6288	6609
195	2562	2753	2925	3107	3275	3456	3632
196	4855	5216	5541	5886	6204	6548	6882
197	3686	3960	4207	4468	4710	4971	5225
198	4048	4349	4620	4907	5173	5460	5738
199	6395	6871	7300	7753	8173	8626	9066
200	8316	8937	9491	10082	10629	11216	11787

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
201	3379	4104	4818	5619	6395	7117	7868
202	5379	6532	7669	8945	10180	11328	12525
203	4388	5329	6256	7297	8304	9241	10217
204	11759	14280	16763	19553	22252	24763	27377
205	3664	3807	4041	4321	4606	4823	5074
206	4051	4210	4466	4776	5090	5330	5609
207	3498	3635	3858	4125	4398	4605	4844
208	763	793	842	900	960	1005	1057
209	1837	1908	2025	2166	2309	2418	2543
210	20502	23631	25324	27110	28291	30727	32595
211	5355	6173	6615	7081	7390	8027	8514
212	3514	4050	4340	4646	4848	5266	5586
213	5253	6054	6488	6946	7248	7873	8351
214	5886	6784	7270	7783	8122	8822	9358
215	4084	4708	5045	5401	5636	6122	6494
216	45494	45991	47213	48752	50253	51283	52556
217	21748	21987	22570	23306	24023	24516	25126
218	11777	11906	12222	12620	13008	13275	13605
219	19700	19915	20444	21110	21760	22206	22759
220	16920	17105	17559	18132	18690	19073	19548
221	7292	7372	7568	7814	8055	8220	8425
222	6361	6430	6601	6816	7026	7170	7349
223	4885	4939	5070	5235	5396	5507	5644
224	3710	3751	3850	3976	4098	4182	4287
225	5387	5446	5590	5772	5950	6072	6223

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
226	109868	114299	121087	128314	135457	142025	148908
227	33598	34953	37029	39239	41423	43432	45536
228	10460	10882	11528	12216	12896	13522	14177
229	4051	4214	4464	4731	4994	5236	5490
230	15882	16522	17503	18548	19581	20530	21525
231	8646	8995	9529	10098	10660	11177	11718
232	3970	4130	4375	4637	4895	5132	5381
233	15075	15683	16615	17607	18587	19488	20432
234	3946	5288	6398	7418	8271	9515	10581
235	1326	1778	2152	2495	2782	3200	3559
236	210214	215936	223167	231175	238623	245924	253370
237	9741	10006	10341	10713	11058	11396	11741
238	28320	29091	30065	31144	32148	33131	34135
239	14633	15031	15534	16092	16610	17118	17637
240	5261	5404	5585	5785	5972	6155	6341
241	16277	16720	17280	17900	18477	19042	19619
242	6823	7009	7243	7503	7745	7982	8224
243	5507	5657	5847	6057	6252	6443	6638
244	6617	6797	7025	7277	7512	7741	7976
245	8508	8740	9032	9357	9658	9953	10255
246	11509	11822	12218	12656	13064	13464	13872
247	20305	20858	21556	22330	23049	23754	24474
248	67329	69161	71477	74042	76428	78766	81151
249	2264	2297	2232	2163	2077	2027	1961
250	3879	4834	5689	6625	7586	8436	9338

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
251	1782	2220	2613	3043	3485	3875	4289
252	6267	6746	7101	7535	7966	8329	8725
253	5624	6053	6371	6761	7148	7474	7829
254	5205	5603	5897	6258	6616	6918	7247
255	7397	7962	8381	8893	9402	9831	10299
256	9655	10392	10940	11607	12272	12831	13441
257	8726	9393	9886	10491	11091	11597	12149
258	9443	10164	10698	11352	12002	12550	13147
259	3848	4621	5522	6369	7196	8109	8982
260	2596	3117	3725	4296	4854	5470	6059
261	4428	5317	6354	7328	8280	9328	10332
262	20391	20896	21782	22822	23820	24536	25405
263	5492	5628	5867	6147	6416	6609	6843
264	10372	10630	11081	11610	12118	12481	12924
265	3974	4073	4246	4448	4643	4782	4952
266	18100	18550	19338	20260	21147	21782	22553
267	5108	5235	5457	5718	5968	6147	6365
268	7540	7728	8056	8440	8809	9074	9395
269	5214	5344	5571	5837	6092	6275	6497
270	5418	5553	5789	6065	6330	6520	6751
271	10319	12987	16175	19582	23159	26182	29464
272	6987	8794	10953	13260	15682	17729	19951
273	10295	12958	16138	19537	23106	26122	29396
274	13078	16461	20501	24819	29353	33184	37343
275	13141	16537	20598	24935	29488	33336	37514

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
276	5147	6479	8069	9768	11553	13061	14698
277	3576	4274	4829	5342	5784	6401	6938
278	907	1085	1225	1356	1469	1625	1761
279	2306	2757	3114	3445	3733	4129	4475
280	3440	3992	4527	5050	5555	6109	6639
281	2792	3240	3675	4100	4510	4960	5392
282	1489	1728	1960	2187	2405	2645	2876
283	1939	2250	2552	2848	3133	3445	3745
284	88106	94715	102182	109630	116616	124345	131757
285	206479	221971	239470	256921	273295	291408	308775
286	189656	203884	219957	235989	251027	267664	283619
287	94359	101438	109434	117411	124893	133170	141108
288	18759	20166	21756	23342	24829	26475	28053
289	14569	15662	16897	18129	19284	20562	21788
290	13381	14385	15519	16650	17711	18885	20011
291	13425	14576	15258	15934	16496	17333	18041
292	1304	1415	1482	1547	1602	1683	1752
293	1716	1863	1950	2036	2108	2215	2305
294	3649	3961	4147	4330	4483	4711	4903
295	21971	24087	26107	28640	31175	33176	35439
296	9327	10225	11084	12160	13236	14085	15047
297	4379	4800	5204	5709	6214	6613	7064
298	8842	9694	10508	11527	12547	13353	14264
299	13493	14792	16035	17591	19147	20376	21767
300	3460	3793	4112	4511	4910	5226	5582

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
301	3214	3524	3820	4191	4561	4854	5186
302	9021	10259	10726	11257	11756	12254	12756
303	3608	4103	4290	4503	4703	4902	5103
304	5151	5857	6124	6428	6712	6997	7283
305	4832	5494	5745	6030	6297	6564	6832
306	11996	13889	14308	14820	15301	15760	16233
307	5237	6064	6246	6469	6680	6880	7086
308	3230	3740	3852	3990	4120	4243	4370
309	3756	4349	4480	4640	4791	4935	5082
310	3773	4369	4500	4661	4813	4957	5105
311	10749	11692	13283	15142	17066	18487	20156
312	3872	4212	4785	5455	6149	6660	7262
313	6950	7560	8590	9792	11037	11955	13035
314	3016	3281	3728	4250	4790	5188	5657
315	34928	36295	37171	37829	38201	38862	39317
316	5362	5572	5707	5808	5865	5966	6037
317	10024	10417	10668	10856	10963	11153	11284
318	5873	6103	6250	6360	6423	6534	6611
319	7582	7879	8069	8211	8292	8435	8535
320	3663	4182	4527	4864	5075	5500	5832
321	1353	1545	1672	1797	1875	2031	2154
322	2110	2410	2608	2803	2924	3169	3360
323	23897	25865	27597	29330	30875	32756	34488
324	20875	22595	24108	25622	26972	28614	30128
325	5509	5962	6362	6761	7118	7551	7951

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
326	4916	5321	5678	6034	6352	6739	7096
327	5864	6347	6772	7198	7577	8038	8464
328	6978	7553	8058	8564	9016	9565	10071
329	24046	26024	27768	29510	31065	32957	34699
330	7215	7809	8332	8855	9322	9890	10413
331	4146	4488	4788	5089	5357	5683	5984
332	5165	5591	5965	6340	6674	7080	7455
333	5805	6283	6704	7125	7500	7957	8378
334	4063	4398	4693	4987	5250	5570	5864
335	7491	7948	8230	8572	8881	9204	9521
336	8113	8608	8912	9283	9617	9966	10310
337	6488	6884	7128	7424	7691	7971	8246
338	6512	6909	7154	7451	7719	8000	8276
339	5405	5735	5938	6185	6408	6641	6870
340	5651	5996	6208	6466	6699	6943	7182
341	5247	5948	6091	6359	6655	6852	7091
342	66155	66208	65352	64496	63236	62761	61934
343	5446	5451	5380	5310	5206	5167	5099
344	13759	13770	13592	13414	13151	13053	12880
345	26447	26469	26126	25784	25280	25090	24759
346	2219	2221	2192	2164	2121	2105	2078
347	3368	3371	3328	3284	3220	3196	3153
348	6832	6837	6749	6661	6530	6481	6396
349	6690	6696	6609	6522	6395	6347	6263
350	11838	11848	11694	11541	11316	11231	11082

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
351	14672	14684	14494	14304	14024	13919	13735
352	3465	3692	3935	4269	4624	4857	5147
353	3753	3999	4263	4624	5009	5261	5576
354	5383	5734	6113	6631	7183	7543	7994
355	5256	5601	5970	6476	7015	7368	7809
356	5030	5359	5713	6197	6713	7050	7472
357	5105	5440	5799	6290	6814	7156	7584
358	85249	87710	88814	89298	88833	90353	90860
359	88245	90792	91936	92437	91955	93528	94053
360	274641	282568	286127	287686	286189	291083	292716
361	72629	74726	75667	76080	75683	76978	77410
362	62279	64078	64884	65238	64898	66008	66379
363	19428	19989	20241	20351	20245	20591	20707
364	24603	25313	25632	25772	25637	26076	26222
365	29959	30824	31212	31382	31219	31753	31931
366	35316	36335	36793	36993	36801	37430	37640
367	39401	40539	41049	41273	41058	41760	41995
368	31593	32506	32915	33094	32922	33485	33673
369	13254	13637	13809	13884	13812	14048	14127
370	61099	62863	63655	64002	63668	64758	65121
371	9895	10181	10309	10365	10311	10488	10547
372	6990	7192	7282	7322	7284	7409	7450
373	20154	20736	20997	21112	21002	21361	21481
374	21879	22511	22794	22919	22799	23189	23319
375	11257	11582	11728	11792	11730	11931	11998

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
376	4724	5520	6482	7592	8793	9669	10697
377	6609	7721	9068	10621	12299	13524	14962
378	4627	5406	6349	7436	8612	9470	10477
379	2024	2366	2778	3254	3768	4144	4585
380	5345	6138	7090	8206	9488	10310	11343
381	3386	3889	4492	5198	6010	6532	7186
382	3172	3643	4208	4869	5630	6118	6732
383	3752	3898	4067	4317	4568	4720	4922
384	1677	1742	1818	1929	2041	2109	2199
385	2625	2727	2845	3020	3195	3302	3443
386	2494	2591	2704	2869	3036	3138	3272
387	4420	5369	6189	7057	7915	8765	9618
388	3951	4798	5532	6308	7076	7836	8599
389	3086	3748	4321	4927	5527	6120	6716
390	3381	4106	4734	5398	6056	6706	7359
391	4726	5962	7322	8724	10137	11489	12870
392	3011	3851	4725	5628	6553	7421	8315
393	4090	5229	6416	7641	8898	10076	11289
394	3321	4247	5211	6206	7227	8184	9169
395	22995	25106	27908	30957	34215	36815	39722
396	9652	10538	11714	12993	14361	15452	16672
397	6947	7585	8431	9352	10337	11122	12000
398	24076	26286	29218	32413	35819	38545	41588
399	22047	24070	26757	29680	32804	35297	38083
400	10690	11671	12974	14391	15906	17115	18466

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
401	6485	7081	7871	8731	9650	10383	11203
402	17624	19242	21390	23727	26224	28217	30444
403	7665	8368	9302	10319	11405	12271	13240
404	6846	7482	8340	9354	10367	11180	12094
405	3351	3662	4083	4579	5075	5472	5920
406	2639	2883	3215	3606	3996	4309	4661
407	6620	9150	11882	14881	18109	20683	23556
408	3272	4523	5873	7355	8951	10224	11644
409	91883	93716	93739	93853	93502	93966	94032
410	4021	4101	4102	4107	4092	4112	4115
411	38191	38954	38963	39010	38866	39058	39085
412	15865	16182	16186	16205	16145	16225	16236
413	8591	8763	8765	8776	8743	8787	8793
414	4790	4886	4887	4893	4875	4899	4902
415	12898	13156	13159	13175	13126	13191	13200
416	7712	7867	7868	7878	7849	7888	7893
417	7778	7934	7936	7945	7916	7955	7961
418	4856	4953	4954	4960	4942	4966	4970
419	1867	1905	1905	1907	1900	1910	1911
420	7822	7979	7980	7990	7961	8000	8006
421	5647	5760	5761	5768	5747	5775	5779
422	7822	7979	7980	7990	7961	8000	8006
423	6587	7214	7721	8319	8964	9469	10036
424	4629	5070	5427	5847	6300	6655	7054
425	6628	7258	7770	8371	9020	9527	10097

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
426	4964	5437	5819	6270	6756	7137	7564
427	3806	4168	4461	4807	5180	5471	5799
428	4319	4730	5063	5455	5878	6209	6581
429	3956	4333	4637	4996	5384	5687	6028
430	4326	4604	4971	5443	5919	6262	6671
431	1600	1703	1839	2014	2190	2317	2469
432	2300	2448	2644	2895	3148	3330	3548
433	17185	18169	18669	19223	19722	20334	20891
434	4188	4427	4549	4684	4806	4955	5091
435	10224	10809	11106	11436	11733	12098	12429
436	7121	7528	7735	7965	8172	8426	8657
437	6326	6688	6872	7076	7260	7485	7690
438	4648	4914	5049	5199	5334	5500	5651
439	2819	2980	3062	3153	3235	3336	3427
440	3828	4047	4159	4282	4393	4530	4654
441	6736	7121	7317	7535	7730	7970	8189
442	56128	60358	62647	65301	67858	70579	73206
443	15586	16761	17397	18135	18845	19600	20329
444	16812	18079	18765	19561	20327	21141	21928
445	6152	6616	6867	7158	7439	7737	8025
446	5023	5401	5606	5844	6073	6316	6551
447	5852	6293	6532	6809	7076	7359	7633
448	3388	3644	3782	3943	4097	4261	4420
449	4794	5156	5351	5578	5797	6029	6254
450	3220	3463	3594	3747	3894	4050	4200

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
451	3220	3463	3594	3747	3894	4050	4200
452	10747	11427	11974	12484	12892	13522	14052
453	4999	5315	5570	5807	5997	6291	6537
454	6322	6721	7044	7343	7583	7954	8266
455	7028	7472	7830	8164	8430	8843	9190
456	2999	3189	3342	3484	3598	3774	3922
457	4284	4555	4773	4976	5139	5390	5602
458	3658	3889	4076	4250	4388	4603	4784
459	7355	7820	8195	8544	8822	9254	9617
460	3698	3910	4067	4268	4469	4629	4809
461	4345	4593	4778	5014	5250	5438	5650
462	6031	6376	6632	6960	7288	7549	7843
463	4695	4963	5162	5418	5673	5876	6105
464	4437	4691	4879	5120	5362	5554	5770
465	4651	4917	5114	5367	5620	5822	6048
466	4418	4670	4858	5098	5338	5529	5744
467	2896	3062	3185	3342	3500	3625	3766
468	6240	6598	6863	7201	7543	7811	8113
469	2804	2964	3083	3236	3388	3510	3646
470	4388	4639	4826	5064	5303	5493	5706
471	6471	7216	7935	8737	9548	10261	11021
472	9979	11129	12236	13475	14725	15823	16995
473	9526	10624	11682	12864	14057	15107	16226
474	7195	8024	8823	9716	10618	11410	12256
475	4623	5155	5668	6242	6821	7330	7874

ZONE POPULATIONS BASED ON 8.0.8. CNTY PROJECTIONS

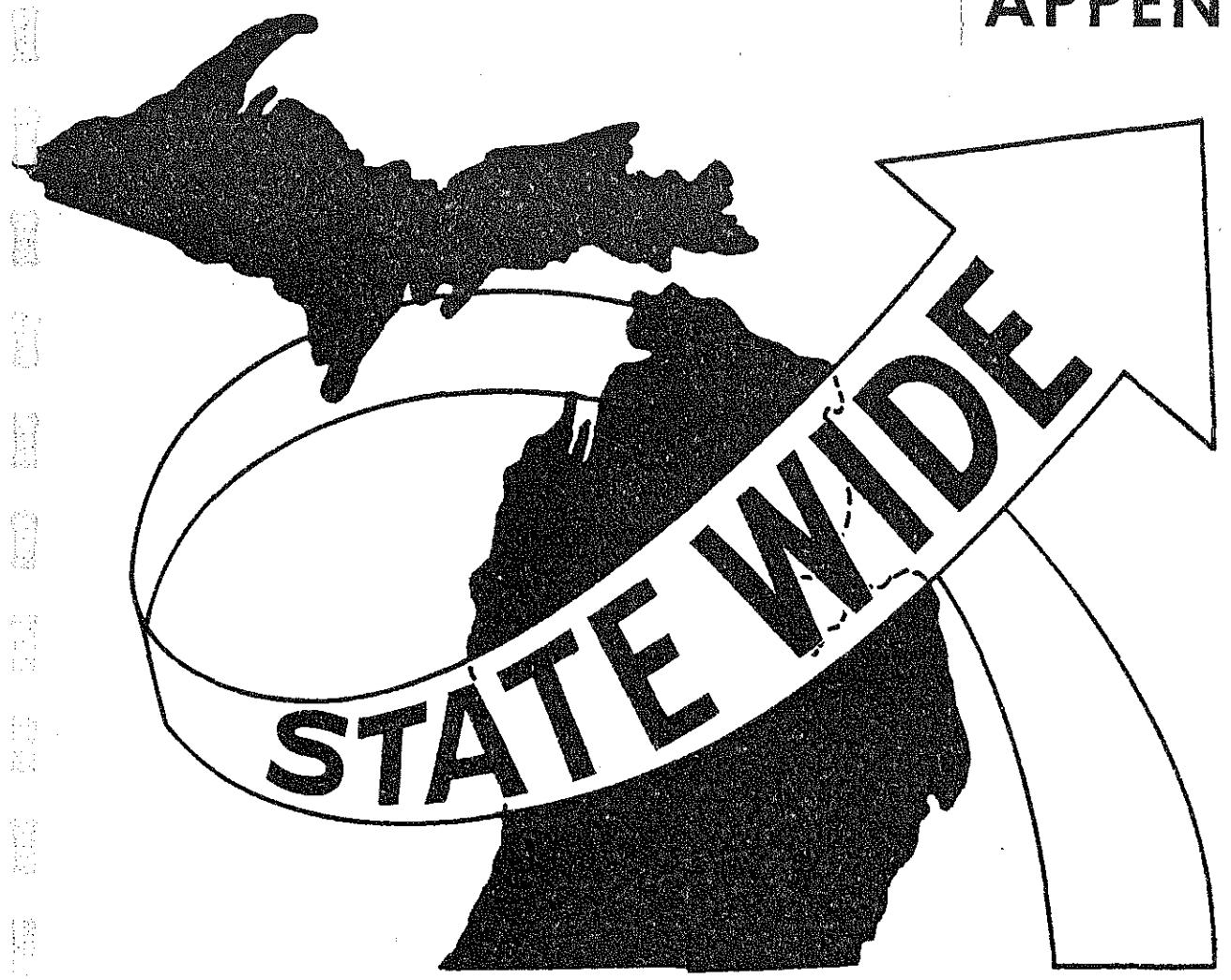
ZONE	1970	1975	1980	1985	1990	1995	2000
476	6072	6771	7446	8199	8960	9629	10342
477	3398	3789	4167	4588	5014	5389	5788
478	8909	9935	10924	12029	13146	14127	15174
479	99782	105399	109912	113486	116107	118813	121153
480	3581	3783	3945	4073	4167	4264	4349
481	8193	8654	9025	9319	9534	9756	9948
482	9200	9718	10134	10464	10705	10955	11170
483	29543	31207	32543	33602	34378	35179	35872
484	33195	35065	36566	37755	38627	39527	40306
485	5571	5885	6137	6337	6483	6634	6765
486	13835	14614	15240	15736	16099	16474	16799
487	7678	8110	8458	8733	8935	9143	9323
488	3300	3486	3636	3754	3840	3930	4007
489	2856	3016	3146	3248	3323	3400	3467
490	6788	7171	7478	7721	7899	8083	8243
491	3605	3808	3971	4100	4195	4292	4377
492	6976	7369	7684	7934	8117	8306	8470
493	488015	471644	458151	444820	431099	419037	405060
494	203473	196647	191021	185463	179742	174713	168885
495	603758	583507	566809	550319	533345	518422	501130
496	482148	465974	452643	439472	425917	414000	400190
497	216006	208760	202788	196887	190814	185475	179288
498	70135	67782	65843	63927	61955	60222	58213
499	73602	71133	69098	67087	65018	63199	61091
500	46668	45102	43812	42537	41225	40071	38735

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

ZONE	1970	1975	1980	1985	1990	1995	2000
501	180005	173967	168990	164073	159012	154563	149407
502	152004	146905	142702	138550	134276	130519	126166
503	78935	76287	74105	71949	69729	67778	65517
504	72002	69586	67596	65629	63604	61825	59762
505	9992	10698	11262	11901	12540	13122	13730
506	5128	5491	5780	6108	6435	6734	7047
507	1936	2073	2182	2306	2429	2542	2660
508	2661	2850	3000	3170	3340	3495	3657
509	312000	356000	396000	434000	474000	515000	556000
510	124800	142400	158400	173600	189600	206000	222400
511	733200	836600	930600	1019900	1113900	1210250	1306600
512	2176200	2483100	2762100	3027150	3306150	3592125	3878100
513	4453800	5081900	5652900	6195350	6766350	7351625	7936900
514	6410	6816	7350	7986	8694	9513	10332
515	30623	32603	35158	38200	41586	45503	49421
516	33183	35330	38098	41394	45064	49309	53554
517	8003	8520	9188	9983	10868	11891	12915
518	3414	3635	3920	4259	4637	5073	5510
519	36598	38965	42018	45653	49701	54383	59065
520	743967	839987	907851	986961	1076954	1182307	1287660
521	3789839	3973553	4293749	4667676	5092270	5588839	6085409
522	840582	894941	965055	1048562	1141522	1249057	1356592
523	2319978	2470005	2663518	2893993	3150561	3447353	3744145
524	440564	469054	505803	549570	598292	654653	711014
525	7393294	7889014	8526367	9255782	9999999	9999999	9999999

ZONE POPULATIONS BASED ON B.O.B. CNTY PROJECTIONS

APPENDIX C



APPENDIX C

	<u>COUNTY</u>	<u>FRACTION OF VARIANCE REMOVED</u>
1.	Alcona	.99
2.	Alger	.90
3.	Allegan	.92 (square-root transformation)
6.	Arenac	.99
7.	Baraga	.90
9.	Bay	.99 (square-root transformation)
14.	Cass	.94
27.	Gogebic	.99
53.	Mason	1.00
54.	Mecosta	1.00
56.	Midland	1.00 (square-root transformation)
60.	Montmorency	.96
63.	Oakland	.88 (square-root transformation)
73.	Saginaw	.80
81.	Washtenaw	.99 (square-root transformation)

APPENDIX D

STATE WIDE

APPENDIX D

This report examines the background of previous attempts (prior to 1978) to provide population projections for use with the 547 zone system in the State-wide Transportation Modeling System. This appendix presents the most recent set of population projections.

In April of 1978 new county population projections were made available to us by the Michigan Department of Management and Budget. In order to obtain 547 zone level projections, we assumed that the percentage each zone was of the county, based on 1975 census population estimates (Series P-25), would remain constant with time. These percentages were applied to each county projection to obtain the zone projections. While we realize this is a simplified approach, we felt compelled to provide some immediate solutions for pressing needs. To provide more reliable zone projections, we welcome advice from those with more expertise in the field of small area projections.

The following pages list the zone population for 1970 census, 1975 estimated, 1980, 1985, 1990, 1995, and 2000. It should be noted that while figures are listed to the nearest whole number, the projection process is not necessarily that precise. The published Bureau of the Budget summary report more appropriately rounds to the nearest 100 persons. The total of zone population for a county when rounded to the nearest 100 will match those of the Bureau of the Budget report. We would appreciate knowing of any discrepancy found. Note that the 1975 estimated population published here may differ slightly from the Bureau of Budget figure since their figures are as of April 1, 1978, and the estimated 1975 population we are using is as of July 1, 1978.

S47 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
1	5928	7146	7504	8150	8844	9370	9708
2	1185	1494	1568	1703	1848	1958	2029
3	3677	3466	3827	4136	4373	4553	4660
4	2038	2309	2547	2754	2912	3032	3103
5	2276	2490	2747	2970	3141	3270	3346
6	577	712	785	849	898	935	956
7	10961	11661	12597	13710	14827	15847	16713
8	8280	9257	10000	10884	11770	12580	13268
9	14104	15726	16988	18489	19996	21371	22540
10	13302	13218	14279	15541	16807	17963	18945
11	5264	5055	5460	5943	6427	6869	7245
12	14664	16584	17919	19501	21090	22540	23772
13	13805	15218	16215	17373	18615	19931	21241
14	10625	11487	12239	13112	14049	15043	16032
15	6278	6588	7019	7520	8057	8627	9195
16	3509	4486	5113	5753	6423	7014	7436
17	3646	4291	4890	5503	6144	6709	7113
18	5457	6537	7452	8384	9362	10224	10837
19	3515	4234	4611	5017	5436	5756	5955
20	3015	3506	3818	4154	4501	4766	4931
21	4619	5439	5926	6447	6984	7397	7651
22	4403	4511	4862	5246	5643	6032	6334
23	2433	2603	2805	3027	3255	3479	3653
24	953	946	1019	1100	1183	1264	1327
25	6501	7055	7522	8012	8549	9055	9467

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
26	11468	12809	13660	14548	15525	16441	17192
27	10901	11825	12609	13429	14330	15177	15869
28	9296	9741	10386	11062	11805	12502	13072
29	54439	52611	53181	53481	53568	53631	53492
30	15896	15871	16042	16132	16159	16177	16136
31	21694	23646	23900	24035	24075	24103	24041
32	14890	16407	16583	16677	16705	16724	16681
33	10420	11564	11688	11754	11774	11787	11757
34	2571	2811	3132	3462	3813	4150	4409
35	3896	4387	4891	5404	5952	6479	6881
36	2126	2672	2977	3290	3624	3945	4191
37	27523	26808	27097	27621	28245	28877	29437
38	14351	16220	16395	16711	17089	17471	17810
39	33393	31433	31777	32390	33124	33863	34520
40	13448	15085	15248	15542	15893	16249	16564
41	6327	7131	7208	7347	7513	7681	7830
42	9450	10099	10208	10405	10640	10878	11089
43	12312	13037	13177	13432	13735	14043	14315
44	16024	18073	18268	18621	19041	19467	19845
45	12988	13750	13898	14167	14487	14811	15098
46	13414	14064	14216	14490	14817	15149	15443
47	4645	4849	4901	4996	5108	5223	5324
48	9099	8031	8202	8698	9188	9444	9481
49	4214	4606	4702	4986	5268	5414	5435
50	5757	5482	5596	5935	6270	6444	6469

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
51	4229	4584	4679	4962	5243	5388	5409
52	4332	4181	4268	4526	4782	4915	4933
53	4434	4603	4699	4983	5264	5411	5431
54	5841	6381	6514	6908	7298	7501	7530
55	38931	47404	47038	46941	46517	45591	44184
56	4296	4894	4855	4845	4801	4706	4560
57	7670	8341	8275	8258	8183	8021	7773
58	25776	19255	19103	19064	18891	18516	17944
59	10817	8769	8700	8682	8603	8432	8171
60	6824	6008	5960	5948	5894	5777	5598
61	4961	4235	4201	4193	4155	4072	3946
62	10881	9539	9464	9444	9359	9173	8889
63	8290	7760	7699	7683	7613	7462	7231
64	2469	2388	2369	2364	2342	2296	2225
65	1683	1648	1635	1631	1616	1584	1535
66	12112	14033	13922	13894	13768	13494	13077
67	7253	7390	7331	7316	7250	7106	6886
68	6583	5910	6402	6908	7454	7979	8390
69	10991	11773	12759	13765	14853	15899	16717
70	7224	7344	7956	8584	9263	9915	10425
71	6942	7537	8165	8810	9506	10176	10699
72	2992	3295	3569	3851	4156	4448	4677
73	2949	3076	3332	3595	3879	4153	4366
74	5631	6591	7140	7704	8313	8898	9356
75	3519	3811	4291	4829	5320	5664	5876

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
76	1970	2079	2341	2634	2902	3089	3206
77	3686	4112	4630	5210	5740	6111	6341
78	7366	8465	9533	10727	11820	12583	13055
79	5553	5594	6018	6421	6797	7134	7415
80	4473	5553	5973	6372	6744	7080	7358
81	4156	5291	5691	6072	6426	6745	7011
82	2391	2981	3206	3421	3620	3800	3950
83	17148	18454	14482	15570	16493	17075	17409
84	2217	2568	2014	2166	2295	2375	2422
85	987	1090	855	919	974	1008	1028
86	1664	1928	1512	1626	1723	1783	1818
87	8342	9339	7327	7878	8346	8639	8808
88	2054	2614	2051	2205	2336	2418	2465
89	5256	6227	7347	8479	9447	10195	10700
90	6114	8087	9544	11013	12272	13242	13897
91	5325	6923	8169	9426	10503	11334	11896
92	6672	7756	8397	9090	9856	10568	11098
93	4832	5075	5494	5948	6449	6915	7261
94	4001	4422	4787	5182	5619	6025	6327
95	4994	5179	5607	6069	6581	7056	7410
96	3847	3974	4302	4657	5050	5414	5686
97	5962	6500	7037	7618	8260	8856	9300
98	3429	3774	4086	4423	4795	5142	5400
99	3017	3264	3533	3825	4147	4447	4670
100	11738	12551	13593	14714	15953	17107	17964

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
101	2143	2110	2526	2937	3335	3713	4053
102	4339	6138	7349	8545	9703	10805	11792
103	15368	14707	15666	16514	17174	17759	18203
104	3061	3889	4142	4366	4540	4695	4812
105	2226	2724	2901	3058	3180	3288	3370
106	11188	13091	13942	14697	15284	15805	16199
107	1521	1818	1936	2041	2122	2194	2249
108	2560	3129	3332	3513	3653	3777	3872
109	13978	14180	14945	15761	16583	17221	17665
110	3392	4040	4257	4490	4724	4905	5032
111	1881	2127	2241	2364	2487	2582	2649
112	4502	4628	4877	5143	5412	5619	5764
113	8244	9104	9925	10908	12003	13039	13910
114	6251	7264	7919	8703	9577	10404	11098
115	5629	5415	5903	6488	7139	7755	8273
116	3734	4285	4671	5134	5649	6137	6547
117	18588	21897	23879	26242	28875	31368	33462
118	3687	3793	4135	4544	5000	5432	5795
119	4306	4470	4873	5355	5893	6402	6829
120	3444	3881	4231	4650	5116	5558	5929
121	4483	5288	5765	6336	6971	7573	8079
122	4494	5206	5675	6237	6863	7456	7954
123	6032	7201	7850	8628	9494	10313	11002
124	6342	6184	6746	7340	7979	8534	8890
125	2755	3367	3673	3996	4344	4646	4840

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON S.O.S. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
126	5112	6560	7158	7789	8467	9056	9432
127	4122	5100	5563	6054	6580	7038	7332
128	193317	174218	172073	173776	175230	175512	174174
129	11716	13524	13357	13489	13602	13623	13520
130	47274	50767	50140	50636	51060	51142	50752
131	38518	42761	42233	42650	43007	43077	42748
132	24361	26789	26458	26719	26943	26986	26781
133	32540	33762	33345	33674	33956	34011	33752
134	13519	16013	15815	15971	16105	16131	16008
135	5535	6759	6675	6741	6798	6808	6757
136	25589	24013	23716	23951	24151	24190	24006
137	9330	10863	10728	10834	10925	10943	10859
138	6468	7864	7766	7843	7909	7922	7861
139	13051	13163	13000	13129	13238	13260	13159
140	20035	24922	24614	24857	25065	25106	24914
141	3089	4188	4136	4177	4212	4218	4186
142	2071	2644	3036	3446	3825	4134	4380
143	5094	6826	7840	8898	9878	10677	11311
144	2539	2871	3297	3742	4153	4489	4756
145	3767	4429	5086	5772	6407	6926	7338
146	10967	10821	10721	10701	10733	10730	10571
147	3213	3293	3262	3255	3265	3265	3216
148	635	690	683	682	684	684	673
149	711	815	807	805	808	808	795
150	5150	5191	5142	5132	5147	5147	5069

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
151	20690	22836	25263	28437	31758	34908	37734
152	9384	11425	12638	14226	15888	17464	18877
153	5485	6234	6896	7762	8669	9529	10300
154	1158	1482	1639	1845	2060	2265	2448
155	2458	2898	3205	3608	4030	4429	4788
156	13891	14227	14307	14648	15011	15214	15240
157	9090	8794	8841	9053	9277	9402	9418
158	8197	8531	8577	8782	9000	9121	9136
159	5319	5454	5483	5614	5754	5831	5841
160	2749	2947	2963	3033	3109	3151	3156
161	7728	8112	8516	8827	9089	9335	9518
162	4304	4712	4944	5125	5277	5419	5526
163	3487	3618	3796	3935	4051	4161	4243
164	4514	4437	4656	4826	4969	5103	5204
165	4042	4709	4941	5121	5273	5416	5523
166	3838	4205	4412	4573	4709	4836	4932
167	4449	4810	5047	5231	5386	5532	5641
168	4809	5533	5806	6018	6196	6364	6489
169	10887	11880	12320	13036	13925	14759	15536
170	12167	12489	12955	13708	14642	15518	16336
171	2632	2970	3080	3259	3481	3689	3884
172	948	1041	1079	1142	1220	1293	1361
173	1655	1894	1964	2078	2220	2352	2477
174	769	2699	2799	2961	3163	3353	3529
175	3784	3987	4134	4375	4673	4953	5214

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
176	2999	3278	3389	3558	3751	3912	4011
177	7040	7184	7433	7803	8226	8578	8793
178	4134	4364	4512	4737	4994	5208	5339
179	5584	5706	5900	6194	6530	6810	6981
180	3743	4424	4575	4802	5063	5280	5413
181	6857	6896	7131	7486	7892	8230	8438
182	3726	4027	4164	4371	4608	4806	4927
183	189021	187295	192557	200409	208291	214708	219206
184	23817	27435	28204	29355	30510	31449	32108
185	13795	15141	15565	16200	16838	17356	17720
186	9871	10486	10780	11219	11661	12020	12272
187	7580	8007	8231	8567	8904	9178	9371
188	3990	4311	4431	4612	4794	4941	5045
189	2373	2630	2703	2814	2924	3014	3078
190	3968	4570	4698	4889	5082	5238	5348
191	6624	7706	7922	8245	8569	8833	9018
192	6361	6326	6676	7056	7436	7791	8106
193	4964	4772	5036	5323	5609	5877	6114
194	4663	4998	5275	5575	5875	6155	6404
195	2565	2697	2846	3008	3170	3321	3456
196	4855	4778	5042	5329	5616	5884	6122
197	3688	3742	3949	4174	4398	4608	4795
198	4047	4216	4449	4702	4956	5192	5402
199	6398	6906	7288	7703	8118	8505	8849
200	8307	8916	9416	9950	10485	10985	11429

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
201	3379	3803	4230	4785	5265	5604	5922
202	5380	6200	6896	7802	8583	9136	9654
203	4388	5861	6519	7375	8114	8637	9126
204	11758	12354	13743	15548	17106	18207	19240
205	3664	4031	4132	4240	4356	4503	4647
206	4049	2761	2828	2902	2982	3082	3182
207	3499	3670	3760	3858	3964	4097	4230
208	764	913	935	959	986	1019	1052
209	1837	2970	3042	3122	3208	3315	3423
210	20504	22810	24380	26638	28886	30671	32140
211	5355	6172	6596	7207	7815	8298	8696
212	3512	3490	3729	4075	4419	4692	4917
213	5255	5924	6330	6917	7501	7964	8346
214	5885	6417	6857	7493	8125	8627	9041
215	4083	4486	4794	5238	5680	6031	6320
216	45484	43995	45379	46663	47841	48731	49270
217	21754	20436	21077	21672	22221	22633	22884
218	11783	13707	14137	14536	14904	15180	15349
219	19705	19745	20364	20939	21469	21867	22110
220	16923	17678	18232	18747	19222	19578	19795
221	7288	8013	8264	8497	8712	8874	8972
222	6363	7331	7561	7774	7971	8119	8209
223	4881	5305	5471	5625	5768	5875	5940
224	3711	4352	4488	4615	4732	4819	4873
225	5382	5980	6167	6341	6502	6622	6696

347 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
226	109883	101966	103564	106881	111123	114754	117541
227	33590	38641	39244	40502	42110	43485	44541
228	10465	8752	8888	9173	9537	9849	10088
229	4042	3245	3295	3401	3536	3651	3740
230	15884	16476	16733	17269	17955	18541	18992
231	8650	11717	11900	12281	12768	13186	13506
232	3964	4282	4348	4488	4666	4818	4935
233	15072	16287	16541	17071	17749	18329	18774
234	3945	8231	8530	10233	12190	14248	16396
235	1327	2106	2182	2617	3118	3645	4195
236	210214	200695	206902	214926	222545	228602	233121
237	9722	12281	12660	13151	13617	13988	14264
238	28337	31884	32868	34144	35354	36316	37034
239	14629	15306	15778	16390	16971	17433	17778
240	5271	6147	6336	6582	6816	7001	7139
241	16287	18173	18734	19461	20150	20699	21108
242	6823	6863	7075	7349	7609	7817	7971
243	5510	5998	6183	6423	6650	6831	6966
244	6628	8121	8371	8696	9004	9250	9432
245	8497	10229	10544	10954	11342	11651	11881
246	11492	13127	13532	14057	14555	14951	15247
247	20310	25113	25888	26893	27846	28604	29169
248	67324	69664	71816	74602	77245	79348	80916
249	2264	2173	2311	2437	2571	2719	2878
250	3879	4611	5142	6097	7513	8948	10072

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
251	1782	2223	2478	2938	3621	4313	4855
252	6270	5761	6492	7273	8098	8878	9548
253	5622	6462	7283	8158	9084	9959	10709
254	5206	5822	6561	7350	8184	8972	9649
255	7398	9306	10488	11748	13082	14342	15423
256	9650	12611	14216	15924	17732	19440	20903
257	8729	10949	12340	13823	15392	16874	18146
258	9442	10699	12058	13507	15040	16489	17732
259	3849	4449	4894	5441	6004	6508	6894
260	2596	3095	3404	3785	4177	4527	4796
261	4427	4983	5483	6095	6727	7292	7724
262	20382	20860	21650	22510	23012	23224	23246
263	5493	6270	6506	6764	6915	6979	6985
264	10374	10736	11140	11583	11841	11950	11961
265	3977	4580	4752	4941	5051	5098	5102
266	18102	19953	20705	21527	22008	22210	22230
267	5106	5274	5472	5690	5817	5870	5875
268	7541	7667	7956	8272	8456	8534	8542
269	5218	5457	5662	5887	6019	6074	6079
270	5416	5868	6089	6331	6472	6531	6537
271	10318	14084	18007	22556	27328	32019	36453
272	6987	8125	10388	13012	15765	18471	21029
273	10297	13731	17556	21991	26643	31216	35540
274	13079	16976	21705	27188	32940	38593	43939
275	13139	17854	22831	28597	34647	40593	46214

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B,0,B, PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
276	5147	7089	9064	11353	13755	16116	18348
277	3575	4035	4325	4808	5232	5416	5615
278	908	1015	1087	1209	1316	1361	1412
279	2306	2065	2212	2460	2677	2770	2873
280	3437	3619	3758	3945	4125	4281	4416
281	2793	3214	3335	3502	3662	3801	3920
282	1490	1515	1572	1651	1726	1791	1848
283	1940	2366	2455	2578	2695	2798	2886
284	88096	104187	108849	114494	119754	123164	124149
285	206545	200723	209710	220584	230718	237286	239188
286	189639	182425	190589	200472	209682	215652	217378
287	94336	121858	127311	133913	140065	144053	145206
288	18755	26469	27653	29087	30423	31290	31540
289	14559	18547	19377	20381	21318	21925	22100
290	13379	15604	16302	17147	17935	18446	18593
291	13422	14050	14707	15573	16462	17181	17650
292	1305	1675	1753	1856	1962	2048	2104
293	1717	2016	2110	2234	2361	2465	2532
294	3650	4025	4212	4460	4715	4921	5056
295	21967	23078	24032	25769	27636	29269	30672
296	9327	10185	10605	11371	12195	12916	13534
297	4379	4825	5024	5387	5777	6118	6411
298	8844	9864	10270	11013	11811	12508	13108
299	13493	13842	14413	15454	16574	17553	18394
300	3463	4151	4322	4634	4970	5264	5516

547 ZONE POPULATIONS

ZONE	CENSUS 1970	EST 1975	BASED ON B.O.B. PROJECTIONS				
			1980	1985	1990	1995	2000
301	3213	3522	3667	3932	4217	4466	4680
302	9021	9545	10049	10876	11941	12842	13501
303	3609	4107	4323	4679	5137	5524	5808
304	5150	5735	6037	6533	7173	7714	8110
305	4832	5130	5400	5844	6416	6900	7255
306	11995	14868	16590	19188	21778	23815	25513
307	5238	6177	6891	7970	9046	9893	10598
308	3231	3891	4341	5020	5698	6231	6676
309	3756	4459	4975	5753	6530	7141	7650
310	3772	4626	5161	5969	6775	7408	7937
311	10748	10372	10844	11398	11971	12478	12834
312	3873	4071	4255	4473	4697	4896	5037
313	6950	7912	8270	8693	9129	9516	9789
314	3016	3208	3353	3524	3701	3858	3969
315	34921	37139	39285	41122	42787	44236	45193
316	5361	5202	5502	5759	5992	6195	6329
317	10027	10164	10750	11253	11709	12105	12367
318	5876	6119	6472	6774	7049	7287	7445
319	7584	8923	9438	9879	10279	10627	10857
320	3662	4616	5391	6094	6734	7239	7643
321	1353	1653	1930	2181	2411	2591	2736
322	2111	2498	2916	3296	3643	3916	4135
323	23894	24612	26749	29546	32506	35382	37971
324	20875	23097	25103	27727	30506	33204	35634
325	5510	5901	6413	7084	7793	8483	9104

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
326	4911	5148	5595	6180	6799	7400	7942
327	5869	6041	6565	7252	7978	8684	9320
328	6980	7310	7944	8775	9654	10508	11278
329	24036	25521	27744	30643	33714	36696	39377
330	7221	8399	9128	10082	11093	12074	12958
331	4151	4357	4735	5230	5754	6263	6722
332	5170	5687	6180	6827	7511	8175	8774
333	5803	6546	7114	7858	8645	9410	10099
334	4059	4475	4863	5372	5910	6433	6904
335	7493	8019	8639	9324	10075	10846	11581
336	8106	7583	8169	8817	9528	10256	10951
337	6490	7066	7612	8216	8878	9557	10204
338	6513	8661	9333	10073	10885	11716	12512
339	5406	6501	7003	7559	8168	8793	9388
340	5652	6305	6792	7331	7922	8528	9105
341	5247	6990	8019	9240	10511	11676	12543
342	66178	64297	64515	64627	64340	63373	61735
343	5440	5723	5742	5751	5726	5640	5494
344	13754	13526	13571	13594	13534	13331	12986
345	26447	25033	25116	25159	25048	24672	24033
346	2214	2771	2780	2784	2772	2731	2660
347	3367	3675	3687	3693	3677	3622	3528
348	6828	7794	7819	7833	7798	7681	7482
349	6690	6657	6679	6690	6661	6561	6391
350	11840	12869	12911	12934	12876	12683	12355

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
351	14668	14626	14674	14699	14634	14415	14042
352	3465	4064	4444	4891	5334	5702	5972
353	3753	4221	4616	5080	5540	5922	6203
354	5380	5958	6515	7171	7820	8359	8756
355	5257	5112	5590	6152	6709	7172	7512
356	5031	6026	6593	7256	7912	8458	8858
357	5106	5863	6412	7056	7695	8226	8616
358	85279	76028	79131	82370	85370	87703	88935
359	88235	96964	100922	105053	108879	111854	113425
360	274580	254484	264881	275722	285767	293572	297695
361	72630	67599	70358	73238	75905	77980	79075
362	62270	65225	67887	70666	73240	75241	76298
363	19392	31055	32322	33645	34871	35824	36327
364	24626	31082	32350	33675	34901	35855	36358
365	29939	42279	44004	45806	47474	48771	49456
366	35361	42092	43810	45603	47264	48556	49237
367	39419	55169	57421	59771	61948	63641	64534
368	31567	39580	41195	42881	44443	45658	46299
369	13219	15101	15717	16360	16956	17420	17664
370	61137	59888	62332	64884	67247	69085	70055
371	9898	12051	12542	13056	13531	13901	14096
372	6958	9365	9747	10146	10515	10803	10954
373	20160	27486	28608	29779	30863	31707	32152
374	21903	25826	26880	27980	28999	29792	30210
375	11298	15351	15977	16631	17237	17708	17957

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
376	4725	5308	5973	6607	7271	7870	8304
377	6606	7289	8204	9074	9986	10808	11405
378	4628	5617	6321	6991	7694	8328	8787
379	2025	2449	2755	3048	3354	3631	3831
380	5345	6498	7567	8648	9596	10389	11095
381	3386	4136	4816	5503	6107	6611	7060
382	3172	4161	4845	5537	6144	6651	7103
383	3751	3789	4188	4586	4938	5249	5505
384	1677	1752	1935	2119	2282	2426	2544
385	2625	2751	3039	3328	3583	3809	3996
386	2495	3065	3386	3708	3992	4244	4452
387	4419	4918	5359	5953	6517	6862	7048
388	3951	4513	4915	5461	5979	6295	6466
389	3086	3428	3733	4148	4541	4781	4912
390	3382	4479	4878	5420	5934	6248	6418
391	4726	6152	6987	7940	8874	9490	9804
392	3012	3288	3864	4726	5651	6509	7198
393	4088	5739	6746	8249	9864	11362	12565
394	3322	4429	5205	6366	7612	8767	9696
395	22991	24603	27081	29796	32442	34848	36780
396	9652	9859	10852	11939	13000	13964	14738
397	6952	7395	8139	8955	9751	10474	11055
398	24064	28633	31521	34680	37760	40560	42808
399	22053	22656	24938	27438	29874	32090	33869
400	10690	10973	12078	13289	14469	15542	16403

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
401	6481	8111	8928	9823	10695	11488	12125
402	17630	20344	22393	24638	26826	28815	30413
403	7668	7982	8786	9666	10525	11305	11932
404	6846	7107	7542	8115	8655	9175	9576
405	3351	4238	4496	4838	5160	5470	5709
406	2639	2655	2817	3031	3233	3427	3577
407	6620	9603	11017	12436	13986	15450	16768
408	3272	4886	5605	6326	7115	7860	8531
409	91849	86201	87368	88629	89714	90537	90768
410	4031	5077	5145	5219	5283	5332	5345
411	38186	44435	45034	45682	46242	46667	46786
412	15868	13762	13947	14148	14321	14453	14490
413	8585	10924	11071	11230	11368	11472	11502
414	4799	5508	5582	5662	5732	5784	5799
415	12896	12107	12270	12446	12599	12715	12747
416	7716	8632	8748	8874	8983	9065	9088
417	7789	9228	9352	9487	9603	9691	9716
418	4854	5458	5531	5611	5680	5732	5746
419	1865	1985	2011	2040	2065	2084	2090
420	7833	8717	8834	8961	9071	9154	9178
421	5658	5499	5573	5653	5722	5775	5790
422	7814	9149	9272	9405	9521	9608	9633
423	6588	7350	8021	8761	9481	10144	10694
424	4629	2773	3026	3305	3577	3827	4034
425	6624	7692	8397	9173	9926	10620	11196

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				2000
	1970	1975	1980	1985	1990	1995	
426	4966	5342	5829	6368	6891	7373	7772
427	3805	3891	4246	4638	5019	5370	5661
428	4319	4819	5259	5744	6216	6651	7011
429	3958	7114	7763	8480	9177	9819	10351
430	4324	4163	4365	4626	4868	5115	5310
431	1601	1848	1937	2053	2160	2269	2357
432	2301	2648	2775	2941	3096	3252	3377
433	17179	17903	19126	20428	21808	23052	23956
434	4186	4951	5287	5647	6030	6374	6624
435	10227	12339	13178	14075	15028	15886	16509
436	7121	7493	8002	8547	9126	9647	10025
437	6328	6460	6899	7369	7868	8317	8643
438	4648	5300	5660	6045	6455	6823	7091
439	2822	2778	2966	3168	3383	3576	3716
440	3826	4202	4487	4793	5117	5410	5622
441	6738	7792	8322	8888	9490	10032	10425
442	56114	57428	62068	68546	75393	81946	87702
443	15587	17258	18650	20598	22655	24624	26354
444	16817	18845	20365	22492	24738	26889	28777
445	6152	6428	6946	7672	8438	9171	9816
446	5028	5720	6181	6827	7508	8161	8734
447	5849	7523	8130	8979	9875	10734	11488
448	3392	3969	4289	4737	5210	5663	6061
449	4800	5870	6343	7006	7705	8375	8963
450	3220	4097	4427	4889	5378	5845	6256

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
451	3216	3611	3902	4309	4740	5152	5514
452	10744	10895	11649	12505	13355	14205	15024
453	5001	5602	5988	6427	6864	7302	7723
454	6322	7031	7516	8066	8615	9165	9693
455	7027	8379	8957	9613	10267	10922	11552
456	3000	3448	3685	3955	4225	4494	4753
457	4283	4714	5039	5408	5776	6144	6499
458	3660	3962	4235	4545	4855	5164	5462
459	7355	6834	7305	7840	8374	8908	9421
460	3701	4415	4735	5194	5716	6216	6654
461	4345	4647	4984	5466	6016	6543	7003
462	6031	7878	8453	9275	10204	11099	11879
463	4696	4232	4539	4978	5479	5958	6378
464	4438	4798	5146	5644	6212	6755	7231
465	4653	5100	5470	5999	6603	7180	7686
466	4417	4872	5225	5731	6307	6859	7343
467	2897	3088	3312	3632	3998	4347	4654
468	6232	7166	7686	8430	9277	10089	10800
469	2802	3213	3446	3779	4159	4523	4842
470	4391	4367	4683	5137	5654	6148	6581
471	6471	6108	6622	7220	7844	8433	8965
472	9966	12037	13054	14234	15464	16623	17672
473	9529	9643	10455	11399	12384	13314	14154
474	7196	8562	9283	10121	10996	11822	12567
475	4625	5487	5949	6486	7047	7576	8054

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				2000
	1970	1975	1980	1985	1990	1995	
476	6075	6101	6615	7212	7835	8424	8955
477	3401	3712	4024	4388	4767	5125	5448
478	8910	10084	10933	11920	12951	13923	14801
479	99797	103539	114321	128666	142909	155743	166786
480	3589	3623	3999	4501	5000	5449	5835
481	8185	10448	11535	12982	14420	15715	16829
482	9211	9426	10406	11712	13009	14178	15183
483	29538	26745	29527	33233	36913	40228	43080
484	33194	35756	39476	44430	49350	53782	57595
485	5562	6340	6999	7878	8750	9536	10212
486	13834	12382	13670	15385	17089	18624	19944
487	7667	9351	10324	11619	12906	14065	15062
488	3302	3722	4109	4624	5137	5598	5995
489	2856	3179	3509	3950	4387	4781	5120
490	6781	7438	8211	9242	10265	11187	11981
491	3611	4331	4781	5381	5977	6514	6976
492	6976	8444	9322	10492	11654	12701	13601
493	487934	429246	416218	405738	395301	384532	372137
494	203566	178225	172816	168464	164131	159659	154513
495	604059	533444	517259	504236	491265	477880	462478
496	482178	424744	411853	401482	391155	380499	368234
497	216025	205471	199235	194218	189222	184067	178134
498	70020	76626	74300	72429	70566	68644	66431
499	73727	93894	91044	88751	86468	84113	81402
500	46538	58966	57176	55736	54302	52823	51121

547 ZONE POPULATIONS

ZONE	CENSUS	EST	BASED ON B.O.B. PROJECTIONS				
	1970	1975	1980	1985	1990	1995	2000
501	179990	202852	196695	191742	186810	181721	175864
502	151916	161638	156732	152785	148855	144800	140133
503	78894	85322	82732	80649	78574	76434	73970
504	71901	67298	65255	63612	61976	60287	58344
505	9990	11202	12279	13568	14908	16245	17534
506	5128	5143	5636	6228	6844	7458	8049
507	1937	2460	2696	2979	3273	3567	3850
508	2662	3148	3450	3812	4189	4565	4926