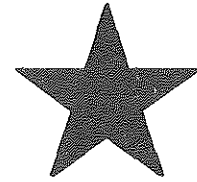


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Statewide



Transportation

Analysis &

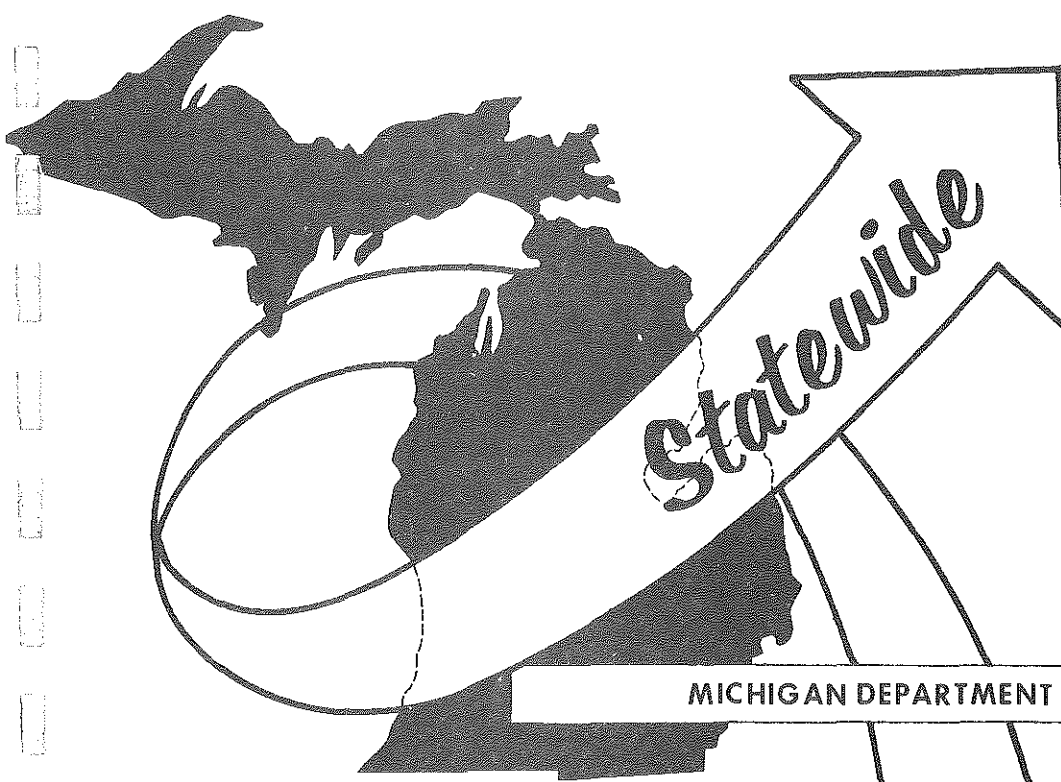
Research

MICHIGAN'S STATEWIDE TRAFFIC
FORECASTING MODEL

PROXIMITY OF AIRPORTS
WITH SCHEDULED SERVICE
TO POPULATION

JANUARY, 1973

Report no. 5



MICHIGAN DEPARTMENT OF TRANSPORTATION

MICHIGAN DEPARTMENT OF STATE HIGHWAYS

COMMISSION:

E. V. ERICKSON, CHAIRMAN
CHARLES H. HEWITT, VICE CHAIRMAN
PETER B. FLETCHER
CLAUDE J. TOBIN

DIRECTOR

JOHN P. WOODFORD

**MICHIGAN'S STATEWIDE TRAFFIC
FORECASTING MODEL**

**PROXIMITY OF AIRPORTS
WITH SCHEDULED SERVICE
TO POPULATION**

JANUARY, 1973

Report no. 5

**With the Participation of:
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION**

COMMISSION:

STATE OF MICHIGAN

E. V. ERICKSON
CHAIRMAN

CHARLES H. HEWITT
VICE CHAIRMAN

PETER B. FLETCHER

CLAUDE J. TOBIN



WILLIAM G. MILLIKEN, GOVERNOR

DEPARTMENT OF STATE HIGHWAYS

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

JOHN P. WOODFORD, STATE HIGHWAY DIRECTOR

February 26, 1973

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

Dear Mr. Cryderman:

The following report was prepared in cooperation with Mr. Ed Mellman of the Aeronautics Commission, Michigan Department of Commerce, to assist the Commission in the preparation of data for the 1974 National Transportation Study.

In this application of the Proximity Analysis process, airports having regularly scheduled service are related to the population living within 30 and 60 minutes' driving time of each airport. Such analysis appears to be in considerable demand from agencies engaged in public service.

Sincerely,

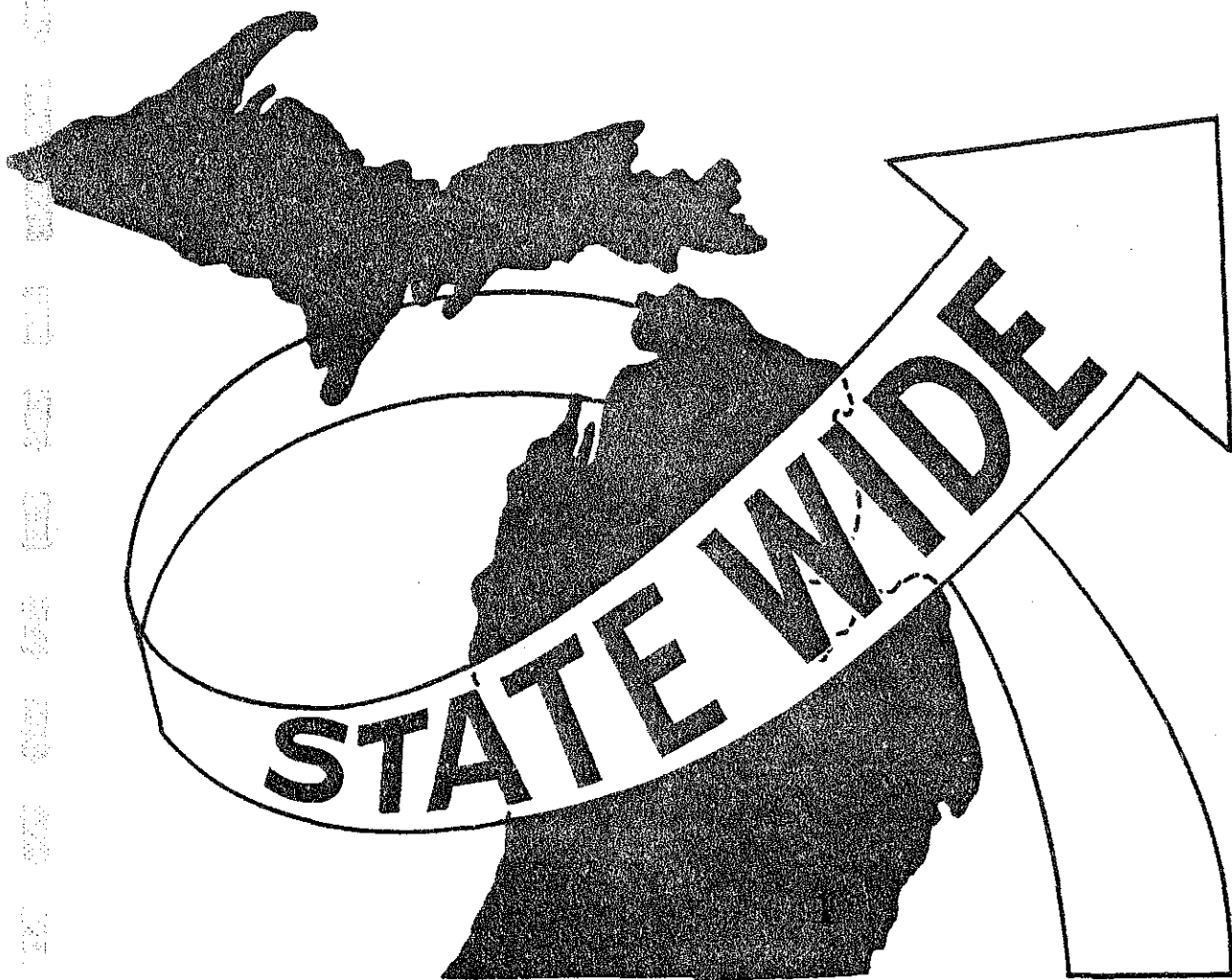
A handwritten signature in cursive script that reads "Keith E. Bushnell".

Keith E. Bushnell
Engineer of Transportation
Survey and Analysis Section

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INTRODUCTION

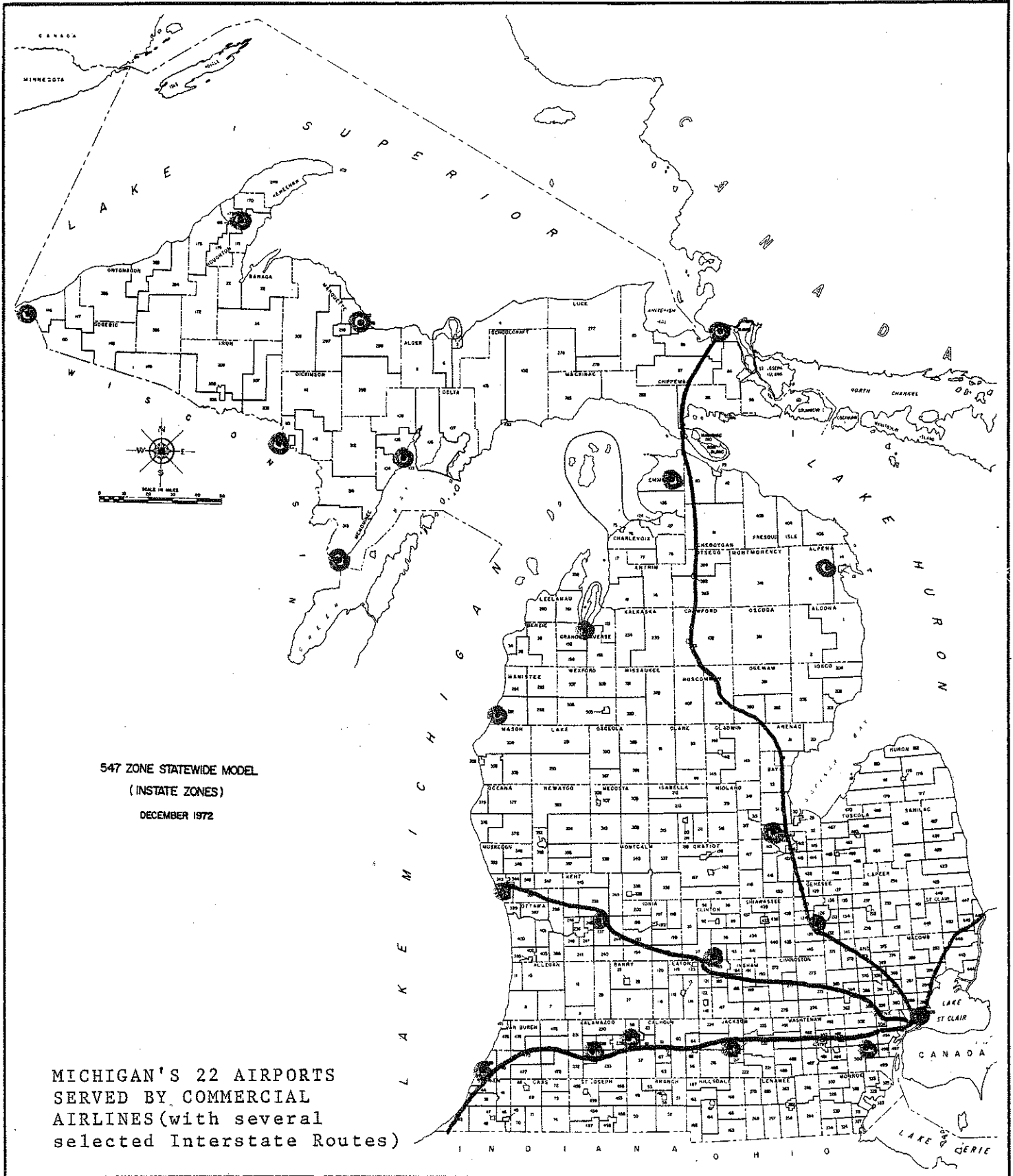


INTRODUCTION

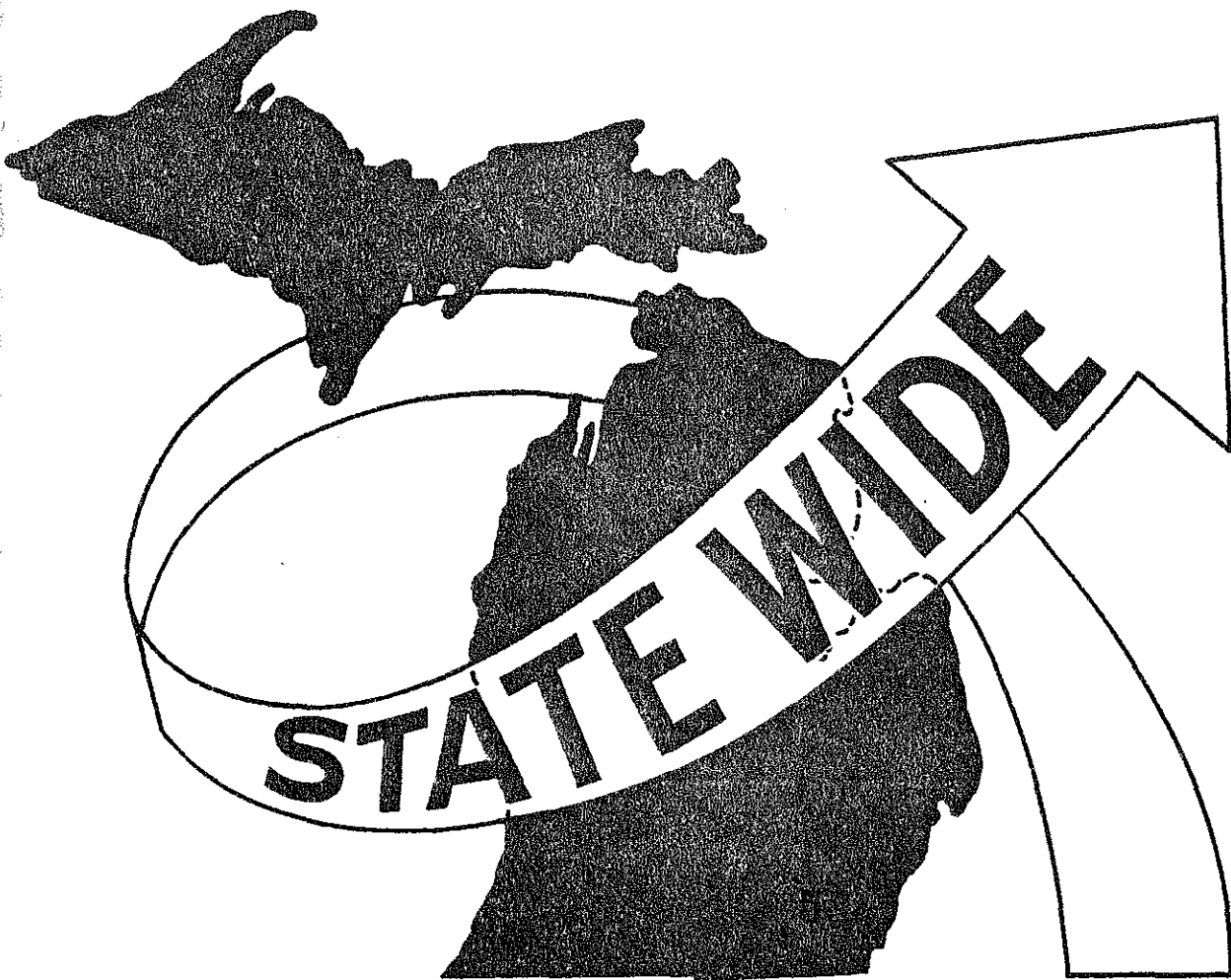
Proximity analysis is an automated process developed by the Statewide Studies Unit of the Department of State Highways to measure social impacts of highways by calculating to what extent the highway network makes facilities accessible to people. In an effort to expand its facilities file, the Unit contacted Mr. Edward Mellman of Aeronautics Commission of the Michigan Department of Commerce to obtain a list of airports, in conjunction with the 1974 National Transportation Study, that Statewide provide the number of people within 30 and 60 minutes driving time of several selected airports (see Figure 1-a).

The information given to the Statewide Studies Unit by the Aeronautics Commission was a list of the 22 airports served by scheduled commercial airlines. The passenger loadings were for the year 1970. A map showing the airports is found in Figure 1, and a list of airports with other pertinent information is found in Figure 2.

Figure 1



METHOD OF ANALYSIS



METHOD OF ANALYSIS

Before the analysis could begin, the state was divided into 508 subareas, or "zones", as used by the Statewide Travel Forecasting Model.

The core of the analysis process is the proximity analysis computer program. The program has as one of its inputs, a measure of the separation of each zone from every other zone as measured by any of three specified modes: driving time, driving distance, or driving cost. It combines this measure of separation with a list of locations of airports and an inventory of the population of each zone to relate facilities to the people around them. In this report, proximity was calculated on the basis of travel time. A full technical dissertation on the proximity analysis process is given in the Statewide Transportation Analysis and Research report Volume 1-D, entitled "Proximity Analysis"

A close examination of the printout will demonstrate the first option, the calculation of the number of people near each airport zone (see Figure 3). Consider the first zone (zone 15) as an example. The file identifies the facility by zone (in this case, a "facility" is an airport served by commercial airlines). The airport in zone 15 is the Alpena Airport. The population of that zone is printed next (6,278 people). Number of servers means there is one airport in

zone 15. The capacity given is the number of passengers using that airport for the year 1970. The first time band is then identified (0-30 minutes driving time) together with the population in that time band (these zone numbers 13, 14, and 15 - are listed a little later). The number of airports in this 0-30 minute band is 1 and the population per airport is then listed. This "population per server" ratio is indicative of the number of potential airport customers who live 0-30 minutes driving time from the airport. The zones in this time band and their driving times to zone 15 are then listed. The same process is repeated for the 30-60 minute band. Then the two are summed up in the 0-60 minute cumulative band, after which the 30-60 minute band zones are listed.

The next printout (Figure 4) shows, for each zone in the state, the number of airports which lie 0-30 minutes and 30-60 minutes away from the zone. The program states that zone 1 is not within 30 or 60 minute driving time of any airport. The capacity is still the number of passengers actually served by the airport in 1970.

The third printout is a list of zones that is not within 60 minutes of driving time to any airport. The population of these zones are also listed.

The fourth printout lists airports whose 30 or 60 minute time band overlaps the 30 or 60 minute time band of any other airport. As an example, zone 100 (Lansing Airport) is within two hours of driving time to seven other airports.

Consequently, each of these seven serves at least one zone (at 60 minutes driving time) which is also served by the Lansing airport, pointing to a possible duplication of effort.

RESULTS



SERVER ZONES DUPLICATING AT LEAST ONE OTHER SERVER, BY TIME BAND

ZONE	SERVERS DUPLICATED	
	0- 30MIN.	30- 60MIN.
37	0	4
58	2	6
100	0	7
103	0	3
109	0	3
128	0	5
151	0	1
219	1	7
226	1	6
237	1	6
291	0	2
300	0	2
311	0	2
345	1	5
410	0	2
496	1	3
500	1	4

NOTE---(SERVERS DUPLICATED)=NUMBER
OF SERVERS HAVING AT LEAST ONE ZONE IN THEIR OWN
TIME BAND WHICH ALSO LIES IN THAT BAND RELATIVE
TO THE ANALYSIS ZONE.

463	4696
464	4438
466	4417
468	6232
505	9990

POPULATION NOT SERVED BY ANY SERVER = 557801

ZONES NOT SERVED

ZONE	POPULATION
1	5928
3	3677
4	2038
5	2276
6	577
8	8280
20	3015
21	4619
22	4403
23	2433
24	953
74	5631
75	3519
76	1970
77	3686
78	7366
80	4473
81	4156
82	2391
85	987
86	1664
90	6114
91	5325
101	2143
102	4339
124	6342
144	2539
149	711
157	9090
163	3487
165	4042
172	948
176	2999
177	7040
178	4134
179	5584
180	3743
181	6857
182	3726
201	3379
202	5380
203	4388
204	11758
205	3664
206	4049
209	1837
213	5255
215	4083
250	3879
254	5206
264	10374
267	5106
277	3575
278	908

STATEWIDE PROXIMITY ANALYSIS

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504	0-	30MIN.	2	2	7141398	35950.50
504	30-	60MIN.	0	0	0	0.00
505	0-	30MIN.	0	0	0	0.00
505	30-	60MIN.	0	0	0	0.00
506	0-	30MIN.	0	0	0	0.00
506	30-	60MIN.	1	1	4453	5128.00
507	0-	30MIN.	0	0	0	0.00
507	30-	60MIN.	2	2	77288	968.50
508	0-	30MIN.	0	0	0	0.00
508	30-	60MIN.	1	1	72835	2662.00

STATEWIDE PROXIMITY ANALYSIS

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480	0-	30MIN.	1	1	7039997	3589.00
480	30-	60MIN.	2	2	112155	1794.50
481	0-	30MIN.	1	1	7039997	8185.00
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482	30-	60MIN.	3	3	7152152	3070.33
483	0-	30MIN.	1	1	7039997	29538.00
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484	30-	60MIN.	2	2	112155	16597.00
485	0-	30MIN.	1	1	7039997	5562.00
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463	0-	30MIN.	0	0	0	0.00
463	30-	60MIN.	0	0	0	0.00
464	0-	30MIN.	0	0	0	0.00
464	30-	60MIN.	0	0	0	0.00
465	0-	30MIN.	0	0	0	0.00
465	30-	60MIN.	2	2	434688	2326.50
466	0-	30MIN.	0	0	0	0.00
466	30-	60MIN.	0	0	0	0.00
467	0-	30MIN.	0	0	0	0.00
467	30-	60MIN.	1	1	277696	2897.00

STATEWIDE PROXIMITY ANALYSIS

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432	0-	30MIN.	0	0	0	0.00
432	30-	60MIN.	0	0	0	0.00
433	0-	30MIN.	0	0	0	0.00
433	30-	60MIN.	2	2	395157	8589.50
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435	30-	60MIN.	1	1	238165	10227.00
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440	30-	60MIN.	1	1	238165	3826.00
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442	30-	60MIN.	0	0	0	0.00
443	0-	30MIN.	0	0	0	0.00
443	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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408	30-	60MIN.	0	0	0	0.00
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419	30-	60MIN.	2	2	434688	932.50

STATEWIDE PROXIMITY ANALYSIS

PAGE 66

384	0-	30MIN.	0	0	0	0.00
384	30-	60MIN.	0	0	0	0.00
385	0-	30MIN.	0	0	0	0.00
385	30-	60MIN.	0	0	0	0.00
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386	30-	60MIN.	0	0	0	0.00
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387	30-	60MIN.	0	0	0	0.00
388	0-	30MIN.	0	0	0	0.00
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395	30-	60MIN.	2	2	561671	11495.50

STATEWIDE PROXIMITY ANALYSIS

PAGE 04

360	0-	30MIN.	1	1	101401	274580.00
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370	30-	60MIN.	3	3	7298390	20379.00
371	0-	30MIN.	1	1	156992	9898.00
371	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 62

336	0-	30MIN.	0	0	0	0.00
336	30-	60MIN.	0	0	0	0.00
337	0-	30MIN.	0	0	0	0.00
337	30-	60MIN.	0	0	0	0.00
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339	0-	30MIN.	0	0	0	0.00
339	30-	60MIN.	0	0	0	0.00
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347	30-	60MIN.	2	2	561671	1683.50

STATEWIDE PROXIMITY ANALYSIS

PAGE 60

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312	30-	60MIN.	2	2	54073	1936.50
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313	30-	60MIN.	1	1	16540	6950.00
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316	30-	60MIN.	1	1	277696	5361.00
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317	30-	60MIN.	0	0	0	0.00
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321	30-	60MIN.	0	0	0	0.00
322	0-	30MIN.	0	0	0	0.00
322	30-	60MIN.	0	0	0	0.00
323	0-	30MIN.	0	0	0	0.00
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293	0-	30MIN.	0	0	0	0.00
293	30-	60MIN.	1	1	4453	1717.00
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294	30-	60MIN.	0	0	0	0.00
295	0-	30MIN.	1	1	49050	21967.00
295	30-	60MIN.	0	0	0	0.00
296	0-	30MIN.	1	1	49050	9327.00
296	30-	60MIN.	0	0	0	0.00
297	0-	30MIN.	0	0	0	0.00
297	30-	60MIN.	1	1	49050	4379.00
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298	30-	60MIN.	1	1	49050	8844.00
299	0-	30MIN.	1	1	49050	13493.00
299	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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264	0-	30MIN.	0	0	0	0.00
264	30-	60MIN.	0	0	0	0.00
265	0-	30MIN.	0	0	0	0.00
265	30-	60MIN.	1	1	10754	3977.00
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269	30-	60MIN.	1	1	10754	5218.00
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270	30-	60MIN.	1	1	10754	5416.00
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271	30-	60MIN.	1	1	156992	10318.00
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272	30-	60MIN.	3	3	405911	2329.00
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274	30-	60MIN.	3	3	7207743	4359.67
275	0-	30MIN.	0	0	0	0.00
275	30-	60MIN.	3	3	7298390	4379.67

STATEWIDE PROXIMITY ANALYSIS

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240	0-	30MIN.	1	1	437220	5271.00
240	30-	60MIN.	0	0	0	0.00
241	0-	30MIN.	1	1	437220	16287.00
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242	0-	30MIN.	1	1	437220	6823.00
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244	0-	30MIN.	1	1	437220	6628.00
244	30-	60MIN.	0	0	0	0.00
245	0-	30MIN.	0	0	0	0.00
245	30-	60MIN.	1	1	437220	8497.00
246	0-	30MIN.	1	1	437220	11492.00
246	30-	60MIN.	1	1	124451	11492.00
247	0-	30MIN.	1	1	437220	20310.00
247	30-	60MIN.	1	1	124451	20310.00
248	0-	30MIN.	1	1	437220	67324.00
248	30-	60MIN.	2	2	250187	33662.00
249	0-	30MIN.	0	0	0	0.00
249	30-	60MIN.	1	1	34883	2264.00
250	0-	30MIN.	0	0	0	0.00
250	30-	60MIN.	0	0	0	0.00
251	0-	30MIN.	0	0	0	0.00
251	30-	60MIN.	1	1	4453	1782.00

216	0-	30MIN.	1	1	10754	45484.00
216	30-	60MIN.	1	1	57464	45484.00
217	0-	30MIN.	1	1	10754	21754.00
217	30-	60MIN.	1	1	57464	21754.00
218	0-	30MIN.	1	1	10754	11783.00
218	30-	60MIN.	1	1	57464	11783.00
219	0-	30MIN.	1	1	10754	19705.00
219	30-	60MIN.	1	1	57464	19705.00
220	0-	30MIN.	1	1	10754	16923.00
220	30-	60MIN.	1	1	7039997	16923.00
221	0-	30MIN.	1	1	10754	7288.00
221	30-	60MIN.	0	0	0	0.00
222	0-	30MIN.	1	1	10754	6363.00
222	30-	60MIN.	0	0	0	0.00
223	0-	30MIN.	1	1	10754	4881.00
223	30-	60MIN.	1	1	57464	4881.00
224	0-	30MIN.	1	1	10754	3711.00
224	30-	60MIN.	2	2	295629	1855.50
225	0-	30MIN.	1	1	10754	5382.00
225	30-	60MIN.	1	1	7039997	5382.00
226	0-	30MIN.	2	2	183200	54941.50
226	30-	60MIN.	0	0	0	0.00
227	0-	30MIN.	2	2	183200	16795.00
227	30-	60MIN.	1	1	44288	33590.00

STATEWIDE PROXIMITY ANALYSIS

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192	0-	30MIN.	0	0	0	0.00
192	30-	60MIN.	2	2	675385	3180.50
193	0-	30MIN.	1	1	437220	4964.00
193	30-	60MIN.	1	1	238165	4964.00
194	0-	30MIN.	0	0	0	0.00
194	30-	60MIN.	2	2	675385	2331.50
195	0-	30MIN.	0	0	0	0.00
195	30-	60MIN.	3	3	732849	855.00
196	0-	30MIN.	0	0	0	0.00
196	30-	60MIN.	1	1	437220	4855.00
197	0-	30MIN.	0	0	0	0.00
197	30-	60MIN.	2	2	675385	1844.00
198	0-	30MIN.	0	0	0	0.00
198	30-	60MIN.	2	2	675385	2023.50
199	0-	30MIN.	0	0	0	0.00
199	30-	60MIN.	2	2	675385	3199.00
200	0-	30MIN.	0	0	0	0.00
200	30-	60MIN.	1	1	437220	8307.00
201	0-	30MIN.	0	0	0	0.00
201	30-	60MIN.	0	0	0	0.00
202	0-	30MIN.	0	0	0	0.00
202	30-	60MIN.	0	0	0	0.00
203	0-	30MIN.	0	0	0	0.00
203	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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168	0-	30MIN.	0	0	0	0.00
168	30-	60MIN.	1	1	10754	4809.00
169	0-	30MIN.	1	1	34883	10887.00
169	30-	60MIN.	0	0	0	0.00
170	0-	30MIN.	1	1	34883	12167.00
170	30-	60MIN.	0	0	0	0.00
171	0-	30MIN.	1	1	34883	2632.00
171	30-	60MIN.	0	0	0	0.00
172	0-	30MIN.	0	0	0	0.00
172	30-	60MIN.	0	0	0	0.00
173	0-	30MIN.	1	1	34883	1655.00
173	30-	60MIN.	0	0	0	0.00
174	0-	30MIN.	1	1	34883	2579.00
174	30-	60MIN.	0	0	0	0.00
175	0-	30MIN.	0	0	0	0.00
175	30-	60MIN.	1	1	34883	3784.00
176	0-	30MIN.	0	0	0	0.00
176	30-	60MIN.	0	0	0	0.00
177	0-	30MIN.	0	0	0	0.00
177	30-	60MIN.	0	0	0	0.00
178	0-	30MIN.	0	0	0	0.00
178	30-	60MIN.	0	0	0	0.00
179	0-	30MIN.	0	0	0	0.00
179	30-	60MIN.	0	0	0	0.00

144	0-	30MIN.	0	0	0	0.00
144	30-	60MIN.	0	0	0	0.00
145	0-	30MIN.	0	0	0	0.00
145	30-	60MIN.	1	1	277696	3767.00
146	0-	30MIN.	1	1	15433	10967.00
146	30-	60MIN.	0	0	0	0.00
147	0-	30MIN.	1	1	15433	3213.00
147	30-	60MIN.	0	0	0	0.00
148	0-	30MIN.	0	0	0	0.00
148	30-	60MIN.	1	1	15433	635.00
149	0-	30MIN.	0	0	0	0.00
149	30-	60MIN.	0	0	0	0.00
150	0-	30MIN.	1	1	15433	5150.00
150	30-	60MIN.	0	0	0	0.00
151	0-	30MIN.	1	1	72835	20690.00
151	30-	60MIN.	0	0	0	0.00
152	0-	30MIN.	1	1	72835	9384.00
152	30-	60MIN.	0	0	0	0.00
153	0-	30MIN.	1	1	72835	5485.00
153	30-	60MIN.	0	0	0	0.00
154	0-	30MIN.	1	1	72835	1158.00
154	30-	60MIN.	0	0	0	0.00
155	0-	30MIN.	1	1	72835	2458.00
155	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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120	0-	30MIN.	0	0	0	0.00
120	30-	60MIN.	3	3	732849	1148.00
121	0-	30MIN.	0	0	0	0.00
121	30-	60MIN.	2	2	248919	2241.50
122	0-	30MIN.	0	0	0	0.00
122	30-	60MIN.	3	3	306383	1498.00
123	0-	30MIN.	1	1	238165	6032.00
123	30-	60MIN.	2	2	447974	3016.00
124	0-	30MIN.	0	0	0	0.00
124	30-	60MIN.	0	0	0	0.00
125	0-	30MIN.	1	1	31411	2755.00
125	30-	60MIN.	0	0	0	0.00
126	0-	30MIN.	0	0	0	0.00
126	30-	60MIN.	1	1	31411	5112.00
127	0-	30MIN.	0	0	0	0.00
127	30-	60MIN.	1	1	31411	4122.00
128	0-	30MIN.	1	1	156992	193317.00
128	30-	60MIN.	0	0	0	0.00
129	0-	30MIN.	1	1	156992	11716.00
129	30-	60MIN.	1	1	277696	11716.00
130	0-	30MIN.	1	1	156992	47274.00
130	30-	60MIN.	0	0	0	0.00
131	0-	30MIN.	1	1	156992	38518.00
131	30-	60MIN.	0	0	0	0.00

96	0-	30MIN.	0	0	0	0.00
96	30-	60MIN.	1	1	238165	3847.00
97	0-	30MIN.	1	1	238165	5962.00
97	30-	60MIN.	0	0	0	0.00
98	0-	30MIN.	1	1	238165	3429.00
98	30-	60MIN.	0	0	0	0.00
99	0-	30MIN.	0	0	0	0.00
99	30-	60MIN.	2	2	395157	1508.50
100	0-	30MIN.	1	1	238165	11738.00
100	30-	60MIN.	0	0	0	0.00
101	0-	30MIN.	0	0	0	0.00
101	30-	60MIN.	0	0	0	0.00
102	0-	30MIN.	0	0	0	0.00
102	30-	60MIN.	0	0	0	0.00
103	0-	30MIN.	1	1	28169	15368.00
103	30-	60MIN.	0	0	0	0.00
104	0-	30MIN.	1	1	28169	3061.00
104	30-	60MIN.	0	0	0	0.00
105	0-	30MIN.	0	0	0	0.00
105	30-	60MIN.	1	1	28169	2226.00
106	0-	30MIN.	1	1	28169	11188.00
106	30-	60MIN.	0	0	0	0.00
107	0-	30MIN.	0	0	0	0.00
107	30-	60MIN.	1	1	28169	1521.00

STATEWIDE PROXIMITY ANALYSIS

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72	0-	30MIN.	0	0	0	0.00
72	30-	60MIN.	2	2	183200	1496.00
73	0-	30MIN.	0	0	0	0.00
73	30-	60MIN.	1	1	125736	2949.00
74	0-	30MIN.	0	0	0	0.00
74	30-	60MIN.	0	0	0	0.00
75	0-	30MIN.	0	0	0	0.00
75	30-	60MIN.	0	0	0	0.00
76	0-	30MIN.	0	0	0	0.00
76	30-	60MIN.	0	0	0	0.00
77	0-	30MIN.	0	0	0	0.00
77	30-	60MIN.	0	0	0	0.00
78	0-	30MIN.	0	0	0	0.00
78	30-	60MIN.	0	0	0	0.00
79	0-	30MIN.	0	0	0	0.00
79	30-	60MIN.	1	1	31411	5553.00
80	0-	30MIN.	0	0	0	0.00
80	30-	60MIN.	0	0	0	0.00
81	0-	30MIN.	0	0	0	0.00
81	30-	60MIN.	0	0	0	0.00
82	0-	30MIN.	0	0	0	0.00
82	30-	60MIN.	0	0	0	0.00
83	0-	30MIN.	1	1	18463	17148.00
83	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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48	0-	30MIN.	0	0	0	0.00
48	30-	60MIN.	1	1	57464	9099.00
49	0-	30MIN.	0	0	0	0.00
49	30-	60MIN.	1	1	57464	4214.00
50	0-	30MIN.	0	0	0	0.00
50	30-	60MIN.	1	1	57464	5757.00
51	0-	30MIN.	0	0	0	0.00
51	30-	60MIN.	1	1	57464	4229.00
52	0-	30MIN.	0	0	0	0.00
52	30-	60MIN.	1	1	57464	4332.00
53	0-	30MIN.	0	0	0	0.00
53	30-	60MIN.	2	2	183200	2217.00
54	0-	30MIN.	0	0	0	0.00
54	30-	60MIN.	1	1	57464	5841.00
55	0-	30MIN.	1	1	57464	38931.00
55	30-	60MIN.	2	2	136490	19465.50
56	0-	30MIN.	0	0	0	0.00
56	30-	60MIN.	2	2	68218	2148.00
57	0-	30MIN.	1	1	57464	7670.00
57	30-	60MIN.	1	1	125736	7670.00
58	0-	30MIN.	2	2	183200	12888.00
58	30-	60MIN.	1	1	10754	25776.00
59	0-	30MIN.	1	1	57464	10817.00
59	30-	60MIN.	2	2	136490	5408.50

STATEWIDE PROXIMITY ANALYSIS

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24	0-	30MIN.	0	0	0	0.00
24	30-	60MIN.	0	0	0	0.00
25	0-	30MIN.	0	0	0	0.00
25	30-	60MIN.	3	3	620420	2167.00
26	0-	30MIN.	0	0	0	0.00
26	30-	60MIN.	3	3	620420	3822.67
27	0-	30MIN.	0	0	0	0.00
27	30-	60MIN.	2	2	183200	5450.50
28	0-	30MIN.	0	0	0	0.00
28	30-	60MIN.	3	3	620420	3098.67
29	0-	30MIN.	1	1	277696	54439.00
29	30-	60MIN.	1	1	156992	54439.00
30	0-	30MIN.	1	1	277696	15896.00
30	30-	60MIN.	0	0	0	0.00
31	0-	30MIN.	1	1	277696	21694.00
31	30-	60MIN.	1	1	156992	21694.00
32	0-	30MIN.	0	0	0	0.00
32	30-	60MIN.	2	2	434688	7445.00
33	0-	30MIN.	0	0	0	0.00
33	30-	60MIN.	1	1	277696	10420.00
34	0-	30MIN.	0	0	0	0.00
34	30-	60MIN.	2	2	77288	1285.50
35	0-	30MIN.	0	0	0	0.00
35	30-	60MIN.	2	2	77288	1948.00

SERVER PROXIMITY

ZONE		SERVICE ZONES	SERVERS	CAPACITY	POPULATION/SERVER
1	0- 30MIN.	0	0	0	0.00
1	30- 60MIN.	0	0	0	0.00
2	0- 30MIN.	0	0	0	0.00
2	30- 60MIN.	1	1	12922	1185.00
3	0- 30MIN.	0	0	0	0.00
3	30- 60MIN.	0	0	0	0.00
4	0- 30MIN.	0	0	0	0.00
4	30- 60MIN.	0	0	0	0.00
5	0- 30MIN.	0	0	0	0.00
5	30- 60MIN.	0	0	0	0.00
6	0- 30MIN.	0	0	0	0.00
6	30- 60MIN.	0	0	0	0.00
7	0- 30MIN.	0	0	0	0.00
7	30- 60MIN.	3	3	227488	3653.67
8	0- 30MIN.	0	0	0	0.00
8	30- 60MIN.	0	0	0	0.00
9	0- 30MIN.	1	1	125736	14104.00
9	30- 60MIN.	1	1	57464	14104.00
10	0- 30MIN.	0	0	0	0.00
10	30- 60MIN.	1	1	124451	13302.00
11	0- 30MIN.	0	0	0	0.00
11	30- 60MIN.	2	2	168739	2632.00

328	31
329	37
330	51
331	43
332	36
334	56
358	56
359	39
360	44
361	45
362	40
363	44
364	57
366	49
367	49
369	58
370	59
479	32
482	35
487	33
488	57
489	55
490	45
491	57
492	40
493	38
496	34
503	43

358	36
363	39
364	44
365	50
366	34
368	36
369	36
370	44
372	54
373	47
374	49
375	49
444	55
445	59
446	53
479	56
480	53
481	50
482	59
483	47
484	40
485	49
486	53
487	57
492	54
500	36
501	31
502	39

416	39
417	33
418	60
419	44
420	51
421	44
422	46
439	56
465	50
467	59
469	55
470	60

396	40
398	57
401	41
402	38
403	47

POPULATION PROXIMITY

DATA FOR ZONE 311
 POPULATION = 10748
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 16540

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 10748 , URBAN = 0 , SUBURBAN = 0 , RURAL = 10748
 = 0.121 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 10748.00
 WITHIN 0- 30 MIN., POPULATION = 10748
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 10748.00

ZONE	TIME AWAY
311	0

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 9966 , URBAN = 3016 , SUBURBAN = 0 , RURAL = 6950
 = 0.112 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 20714
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 20714.00

ZONE	TIME AWAY
313	50
314	48

POPULATION PROXIMITY

DATA FOR ZONE 291
 POPULATION = 13422
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 4453

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 23527 , URBAN = 3650 , SUBURBAN = 0 , RURAL = 19877
 = 0.265 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 23527.00
 WITHIN 0- 30 MIN., POPULATION = 23527
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 23527.00

ZONE	TIME AWAY
291	0
292	27
294	29
304	26

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 36619 , URBAN = 6769 , SUBURBAN = 0 , RURAL = 29850
 = 0.413 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 60146
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 60146.00

ZONE	TIME AWAY
34	50
35	43
36	52
251	50
293	39
302	45
303	38
305	42
506	59
507	55

POPULATION PROXIMITY

DATA FOR ZONE 237
 POPULATION = 9722
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 437220

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 402001 , URBAN = 210214 , SUBURBAN = 105949 , RURAL = 85838
 = 4.530 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 402001.00
 WITHIN 0- 30 MIN., POPULATION = 402001
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 402001.00

ZONE	TIME AWAY
193	29
236	18
237	0
238	24
239	29
240	22
241	27
242	13
244	20
246	25
247	17
248	22

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 384693 , URBAN = 86072 , SUBURBAN = 133445 , RURAL = 165176
 = 4.335 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 384693.00
 WITHIN 0- 60 MIN., POPULATION = 780694
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 393347.00

ZONE	TIME AWAY
12	54
25	48
26	56
28	48
120	56
123	58
192	36
194	44
195	43
196	31
197	40
198	59
199	46
200	43
243	38
245	47
335	49
338	55

POPULATION PROXIMITY

DATA FOR ZONE 226
 POPULATION = 109883
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 125736

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 226358 , URBAN = 109883 , SUBURBAN = 108469 , RURAL = 8006
 = 2,550 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 2
 POPULATION PER SERVER IN BAND = 113179.00
 WITHIN 0- 30 MIN., POPULATION = 226358
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 113179.00

ZONE	TIME AWAY
9	27
58	27
226	0
227	15
228	20
229	29
230	19
231	11
232	20

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 607880 , URBAN = 265409 , SUBURBAN = 124096 , RURAL = 218375
 = 6,849 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 834238
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 417119.00

ZONE	TIME AWAY
7	39
12	33
25	51
26	60
27	51
28	51
40	50
53	59
55	34
57	46
59	37
60	46
61	42
62	35
63	40
64	54
65	55
66	56
67	43
68	60
72	44

POPULATION PROXIMITY

DATA FOR ZONE 219
 POPULATION = 19705
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 10754

TIME BAND 0- 30 MINUTES

POPULATION WITHIN BAND = 182087 , URBAN = 60065 , SUBURBAN = 51330 , RURAL = 70692
 = 2,052 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1

POPULATION PER SERVER IN BAND = 182087.00

WITHIN 0- 30 MIN., POPULATION = 182087

NUMBER OF SERVERS = 1

POPULATION PER SERVER = 182087.00

ZONE	TIME AWAY
64	23
66	24
186	27
187	20
216	9
217	14
218	21
219	0
220	18
221	27
222	25
223	14
224	21
225	20
490	27

TIME BAND 30- 60 MINUTES

POPULATION WITHIN BAND = 781886 , URBAN = 343547 , SUBURBAN = 221082 , RURAL = 217257
 = 8,810 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1

POPULATION PER SERVER IN BAND = 781886.00

WITHIN 0- 60 MIN., POPULATION = 963973

NUMBER OF SERVERS = 2

POPULATION PER SERVER = 481986.50

ZONE	TIME AWAY
55	49
56	37
58	50
59	58
60	34
61	38
62	51
63	50
65	48
67	35
93	52
113	46
114	48
115	52
116	57

POPULATION PROXIMITY

DATA FOR ZONE 151
 POPULATION = 20690
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 72835

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 43602 , URBAN = 2458 , SUBURBAN = 0 , RURAL = 41144
 = 0.491 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 43602.00
 WITHIN 0- 30 MIN., POPULATION = 43602
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 43602.00

ZONE	TIME AWAY
151	0
152	19
153	26
154	30
155	17
261	18

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 37521 , URBAN = 1937 , SUBURBAN = 0 , RURAL = 35584
 = 0.423 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 37521
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 37521.00

ZONE	TIME AWAY
16	54
17	55
18	36
34	52
35	45
36	38
234	40
235	52
259	44
260	33
507	44
508	57

255	52
256	47
257	36
271	46
272	55
273	41
274	55
275	43
358	46
361	55
363	56
364	57
365	48
366	54
367	59
368	56
369	43
370	40
373	36
374	54
375	54
409	46
411	53
412	44
413	59
414	42
415	36
416	60
419	54
420	49
421	46
433	37
434	42
436	34
437	46
439	47
441	37
462	47
465	58
469	52
492	58

POPULATION PROXIMITY

DATA FOR ZONE 125
 POPULATION = 2755
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 31411

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 2755 , URBAN = 0 , SUBURBAN = 0 , RURAL = 2755
 = 0.031 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 2755.00
 WITHIN 0- 30 MIN., POPULATION = 2755
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 2755.00

ZONE	TIME AWAY
125	0

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 14787 , URBAN = 4122 , SUBURBAN = 0 , RURAL = 10665
 = 0.167 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 17542
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 17542.00

ZONE	TIME AWAY
79	59
126	59
127	60

POPULATION PROXIMITY

DATA FOR ZONE 103
 POPULATION = 15368
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 28169

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 29617 , URBAN = 0 , SUBURBAN = 0 , RURAL = 29617
 = 0.334 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 29617.00
 WITHIN 0- 30 MIN., POPULATION = 29617
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 29617.00

ZONE	TIME AWAY
103	0
104	8
106	19

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 17698 , URBAN = 5576 , SUBURBAN = 0 , RURAL = 12122
 = 0.199 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 47315
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 47315.00

ZONE	TIME AWAY
105	32
107	52
108	32
112	60
312	37
314	40

POPULATION PROXIMITY

DATA FOR ZONE 100
 POPULATION = 11738
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 238165

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 250275 , URBAN = 189021 , SUBURBAN = 47862 , RURAL = 13392
 = 2.820 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 250275.00
 WITHIN 0- 30 MIN., POPULATION = 250275
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 250275.00

ZONE	TIME AWAY
92	28
93	23
94	30
97	14
98	23
100	0
117	26
123	29
183	21

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 227481 , URBAN = 3826 , SUBURBAN = 78698 , RURAL = 144957
 = 2.563 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 477756
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 477756.00

ZONE	TIME AWAY
95	31
96	43
99	38
113	42
114	41
115	47
118	47
119	34
120	56
121	31
122	45
159	51
160	56
184	31
185	35
186	38
187	46
189	50
190	47
191	42
192	52

56	45
65	31
66	32
72	56
113	44
114	49
115	43
118	58
120	49
122	57
167	59
195	59
216	53
217	56
218	52
219	50
223	39
224	54
231	31
232	32
233	33
452	58
453	33
454	57
455	48
456	40
459	48
472	53
473	56
474	60
475	51
478	44

POPULATION PROXIMITY

DATA FOR ZONE 37
 POPULATION = 27523
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 44288

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 117141 , URBAN = 13448 , SUBURBAN = 91291 , RURAL = 12402
 = 1.320 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 117141.00
 WITHIN 0- 30 MIN., POPULATION = 117141
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 117141.00

ZONE	TIME AWAY
37	0
38	23
39	7
40	23
41	27
44	13
476	28

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 188426 , URBAN = 21898 , SUBURBAN = 51649 , RURAL = 114879
 = 2.123 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 305567
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 305567.00

ZONE	TIME AWAY
7	56
11	53
42	46
43	31
45	34
46	37
47	42
68	41
69	46
70	42
71	52
227	60
232	58
471	34
472	47
473	33
474	46
475	58
477	45
478	45

FIGURE 3

PROXIMITY OF POTENTIAL USERS
TO EACH AIRPORT

FIGURE 2

<u>Airport</u>	<u>Zone</u>	<u>Passenger</u>	<u>Population Served (60 Min.)</u>
1 Detroit Metro	500	7,039,997	4,351,530
2 Grand Rapids	237	437,220	786,694
3 Saginaw	410	277,696	513,641
4 Lansing	100	238,165	477,756
5 Flint	128	156,992	1,438,504
6 Kalamazoo	226	125,736	834,238
7 Muskegon	345	124,451	712,492
8 Detroit City	496	101,401	4,533,705
9 Traverse City	151	72,835	81,123
10 Battle Creek	58	57,464	691,796
11 Marquette	300	49,050	64,686
12 Benton Harbor	37	44,288	305,567
13 Houghton	170	34,883	35,968
14 Pellston	125	31,411	17,542
15 Escanaba	103	28,169	47,315
16 Iron Mountain	109	25,904	31,889
17 S. S. Marie	83	18,463	35,991
18 Menominee	311	16,540	20,714
19 Ironwood	146	15,433	19,965
20 Alpena	15	12,922	46,625
21 Jackson	219	10,754	963,973
22 Manistee	291	4,453	60,146
		8,924,227	

RESULTS

The results are tabulated by the proximity analysis program from four different viewpoints:

1. From the perspective of each individual airport, listing the zones it serves and the population of each zone by the time band specified.

2. From the perspective of each zone, giving the number of airports which potentially serve the zone by time bands. The capacity given is the number of passengers served by the airport in 1970.

3. From the perspective of zones not served by any airport within 60 minute driving time, with their populations.

4. From the perspective of server-zone duplications; that is, the extent to which airports overlap the same potential customers.

The proximity analysis program showed these interesting results:

1. The ratio of passengers actually enplaned to the population potentially served (within 60 minutes driving time) ranged from 179% at Pellston and 162% at Detroit Metro to 2.2% at Detroit City and 1.1% at Jackson (see figure 2). It may be worth noting the proximity of these four airports to the interstate system: three airports are within sight distance of I-94 and Pellston, with the highest percentage, a scant 15 miles from I-75. Jackson, besides having the smallest percentage of use from its potential customers, serves the third largest population group (almost a million).

2. Of the 557,801 people not served by any commercial airport (within 60 minutes driving time), 13% live in the Port Huron area (zones 442 and 443). Observations such as these might be used to advantage in the planning of airport facilities.

POPULATION PROXIMITY

DATA FOR ZONE 15
 POPULATION = 6278
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 12922

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 30708 , URBAN = 6278 , SUBURBAN = 0 , RURAL = 24430
 = 0.346 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 30708.00
 WITHIN 0- 30 MIN., POPULATION = 30708
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 30708.00

ZONE	TIME AWAY
13	22
14	26
15	0

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 15917 , URBAN = 0 , SUBURBAN = 0 , RURAL = 15917
 = 0.179 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 46625
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 46625.00

ZONE	TIME AWAY
2	55
341	44
404	46
406	48

POPULATION PROXIMITY

DATA FOR ZONE 58
 POPULATION = 25776
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 57464

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 301470 , URBAN = 112352 , SUBURBAN = 126690 , RURAL = 62428
 = 3.397 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 2
 POPULATION PER SERVER IN BAND = 150735.00
 WITHIN 0- 30 MIN., POPULATION = 301470
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 150735.00

ZONE	TIME AWAY
55	9
57	23
58	0
59	18
60	22
61	18
62	10
63	15
64	30
67	19
116	29
226	27
227	27
228	20
229	17
230	26

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 390326 , URBAN = 89094 , SUBURBAN = 90345 , RURAL = 210887
 = 4.398 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 390326.00
 WITHIN 0- 60 MIN., POPULATION = 691796
 NUMBER OF SERVERS = 3
 POPULATION PER SERVER = 230598.67

ZONE	TIME AWAY
7	60
9	49
12	55
25	46
26	55
27	38
28	58
48	45
49	40
50	46
51	50
52	53
53	35
54	47

POPULATION PROXIMITY

DATA FOR ZONE 83
 POPULATION = 17148
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 18463

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 29761 , URBAN = 0 , SUBURBAN = 8342 , RURAL = 21419
 = 0.335 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 29761.00
 WITHIN 0- 30 MIN., POPULATION = 29761
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 29761.00

ZONE	TIME AWAY
83	0
84	26
87	28
88	23

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 6230 , URBAN = 0 , SUBURBAN = 0 , RURAL = 6230
 = 0.070 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 35991
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 35991.00

ZONE	TIME AWAY
280	58
281	54

193	50
194	58
195	48
197	58
198	44
199	36
224	59
272	58
433	53
434	41
435	60
436	58
437	47
440	53
441	46

POPULATION PROXIMITY

DATA FOR ZONE 109
 POPULATION = 13978
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 25904

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 21872 , URBAN = 0 , SUBURBAN = 0 , RURAL = 21872
 = 0.246 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 21872.00
 WITHIN 0- 30 MIN., POPULATION = 21872
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 21872.00

ZONE	TIME AWAY
109	0
110	10
112	22

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 10017 , URBAN = 1881 , SUBURBAN = 0 , RURAL = 8136
 = 0.113 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 31889
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 31889.00

ZONE	TIME AWAY
111	46
207	48
208	41
312	51

POPULATION PROXIMITY

DATA FOR ZONE 128
 POPULATION = 193317
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 156992

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 475294 , URBAN = 197143 , SUBURBAN = 198544 , RURAL = 79607
 = 5.355 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 475294.00
 WITHIN 0- 30 MIN., POPULATION = 475294
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 475294.00

ZONE	TIME AWAY
128	0
129	25
130	25
131	15
132	17
133	12
134	22
135	27
136	14
138	30
139	18
140	25
371	26
372	28
422	30
435	25
438	27
440	29

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 963210 , URBAN = 201624 , SUBURBAN = 445085 , RURAL = 316501
 = 10.853 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 1438504
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 1438504.00

ZONE	TIME AWAY
29	58
31	58
32	59
93	50
99	57
137	36
141	33
184	56
190	53
191	56
252	33
253	48

POPULATION PROXIMITY

DATA FOR ZONE 146
 POPULATION = 10967
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 15433

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 19330 , URBAN = 0 , SUBURBAN = 0 , RURAL = 19330
 = 0.218 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 19330.00
 WITHIN 0- 30 MIN., POPULATION = 19330
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 19330.00

ZONE	TIME AWAY
146	0
147	26
150	15

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 635 , URBAN = 0 , SUBURBAN = 0 , RURAL = 635
 = 0.007 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 19965
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 19965.00

ZONE	TIME AWAY
148	43

POPULATION PROXIMITY

DATA FOR ZONE 170
 POPULATION = 12167
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 34883

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 29920 , URBAN = 0 , SUBURBAN = 12167 , RURAL = 17753
 = 0.337 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 29920.00
 WITHIN 0- 30 MIN., POPULATION = 29920
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 29920.00

ZONE	TIME AWAY
169	23
170	0
171	26
173	23
174	26

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 6048 , URBAN = 3784 , SUBURBAN = 0 , RURAL = 2264
 = 0.068 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 35968
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 35968.00

ZONE	TIME AWAY
175	46
249	45

117	46
118	31
119	60
121	43
122	31
123	56
161	53
162	49
164	56
166	51
167	50
168	40
183	42
184	44
185	38
188	31
189	38
190	53
191	51
262	52
263	50
265	39
266	55
268	60
269	49
270	31
272	57
274	58
276	51
479	43
480	46
481	45
482	38
483	52
484	51
485	54
486	54
487	59
488	44
489	43
491	40
492	57

73	60
116	53
233	32
236	59
241	50
248	55
453	50
454	54
455	36
456	49
457	52
459	36
471	52
472	41
473	44
474	40
475	31
476	53
477	55
478	32

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342	60
344	57
345	56
347	49
349	58
351	49
357	60
395	51
396	33
397	40
398	33
399	50
400	56
401	38
402	52
403	46

POPULATION PROXIMITY

DATA FOR ZONE 300
 POPULATION = 3463
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 49050

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 48250 , URBAN = 13493 , SUBURBAN = 0 , RURAL = 34757
 = 0.544 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 48250.00
 WITHIN 0- 30 MIN., POPULATION = 48250
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 48250.00

ZONE	TIME AWAY
295	21
296	29
299	18
300	0

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 16436 , URBAN = 3213 , SUBURBAN = 0 , RURAL = 13223
 = 0.185 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 64686
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 64686.00

ZONE	TIME AWAY
297	35
298	49
301	52

POPULATION PROXIMITY

DATA FOR ZONE 345
 POPULATION = 26447
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 124451

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 176474 , URBAN = 66178 , SUBURBAN = 62254 , RURAL = 48042
 = 1.988 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 176474.00
 WITHIN 0- 30 MIN., POPULATION = 176474
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 176474.00

ZONE	TIME AWAY
342	9
344	15
345	0
346	30
348	22
349	24
351	18
397	20
399	16
400	29

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 536018 , URBAN = 221801 , SUBURBAN = 172591 , RURAL = 141626
 = 6.040 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 536018.00
 WITHIN 0- 60 MIN., POPULATION = 712492
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 356246.00

ZONE	TIME AWAY
10	54
11	56
236	47
237	56
238	54
239	48
241	58
242	50
246	38
247	59
248	52
343	33
347	45
350	35
352	45
355	49
357	57
376	46
378	51
395	42

POPULATION PROXIMITY

DATA FOR ZONE 410
 POPULATION = 4031
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 277696

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 301372 , URBAN = 113543 , SUBURBAN = 134416 , RURAL = 53413
 = 3.396 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 301372.00
 WITHIN 0- 30 MIN., POPULATION = 301372
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 301372.00

ZONE	TIME AWAY
29	26
30	26
31	24
315	17
317	22
318	25
409	25
410	0
411	25
412	30
413	18

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 212275 , URBAN = 32435 , SUBURBAN = 27786 , RURAL = 152054
 = 2.392 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 0
 POPULATION PER SERVER IN BAND = 0.00
 WITHIN 0- 60 MIN., POPULATION = 513647
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 513647.00

ZONE	TIME AWAY
19	53
32	32
33	45
89	54
129	52
138	51
142	58
143	57
145	47
156	59
158	57
210	55
211	50
212	59
214	57
316	39
319	38
414	46
415	34

POPULATION PROXIMITY

DATA FOR ZONE 496
 POPULATION = 482178
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 101401

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 3404054 , URBAN = 691500 , SUBURBAN = 2712554 , RURAL = 0
 = 38.355 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 3404054.00
 WITHIN 0- 30 MIN., POPULATION = 3404054
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 3404054.00

ZONE	TIME AWAY
284	25
285	12
286	11
287	26
359	25
360	19
361	30
362	29
367	23
493	13
494	20
495	16
496	0
497	20
498	27
499	30
503	10
504	28

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 1129651 , URBAN = 229859 , SUBURBAN = 607487 , RURAL = 292305
 = 12.728 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 1129651.00
 WITHIN 0- 60 MIN., POPULATION = 4533705
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 2266852.50

ZONE	TIME AWAY
258	56
275	50
288	32
289	43
290	48
323	55
325	38
328	60
329	53
331	59
332	59
333	43

POPULATION PROXIMITY

DATA FOR ZONE 500
 POPULATION = 46538
 NUMBER OF SERVERS = 1
 TOTAL CAPACITY = 7039997

TIME BAND 0- 30 MINUTES
 POPULATION WITHIN BAND = 2007325 , URBAN = 523275 , SUBURBAN = 1459144 , RURAL = 24906
 = 22,618 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 2007325.00
 WITHIN 0- 30 MIN., POPULATION = 2007325
 NUMBER OF SERVERS = 1
 POPULATION PER SERVER = 2007325.00

ZONE	TIME AWAY
325	27
333	27
480	30
481	27
483	23
484	17
485	27
486	29
494	21
495	28
497	22
498	15
499	22
500	0
501	19
502	29
504	30

TIME BAND 30- 60 MINUTES
 POPULATION WITHIN BAND = 2344205 , URBAN = 388642 , SUBURBAN = 1747420 , RURAL = 208143
 = 26,413 PERCENT OF TOTAL POPULATION

NUMBER OF SERVERS IN BAND = 1
 POPULATION PER SERVER IN BAND = 2344205.00
 WITHIN 0- 60 MIN., POPULATION = 4351530
 NUMBER OF SERVERS = 2
 POPULATION PER SERVER = 2175765.00

ZONE	TIME AWAY
220	59
225	60
266	59
274	56
275	49
276	60
284	58
285	46
286	46
323	39
324	59
326	42
327	51

FIGURE 4

PROXIMITY OF AIRPORTS

TO EACH ZONE

STATEWIDE PROXIMITY ANALYSIS

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12	0-	30MIN.	0	0	0	0.00
12	30-	60MIN.	3	3	620420	4888.00
13	0-	30MIN.	1	1	12922	13805.00
13	30-	60MIN.	0	0	0	0.00
14	0-	30MIN.	1	1	12922	10625.00
14	30-	60MIN.	0	0	0	0.00
15	0-	30MIN.	1	1	12922	6278.00
15	30-	60MIN.	0	0	0	0.00
16	0-	30MIN.	0	0	0	0.00
16	30-	60MIN.	1	1	72835	3509.00
17	0-	30MIN.	0	0	0	0.00
17	30-	60MIN.	1	1	72835	3646.00
18	0-	30MIN.	0	0	0	0.00
18	30-	60MIN.	1	1	72835	5457.00
19	0-	30MIN.	0	0	0	0.00
19	30-	60MIN.	1	1	277696	3515.00
20	0-	30MIN.	0	0	0	0.00
20	30-	60MIN.	0	0	0	0.00
21	0-	30MIN.	0	0	0	0.00
21	30-	60MIN.	0	0	0	0.00
22	0-	30MIN.	0	0	0	0.00
22	30-	60MIN.	0	0	0	0.00
23	0-	30MIN.	0	0	0	0.00
23	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 37

36	0-	30MIN.	0	0	0	0.00
36	30-	60MIN.	2	2	77288	1063.00
37	0-	30MIN.	1	1	44288	27523.00
37	30-	60MIN.	0	0	0	0.00
38	0-	30MIN.	1	1	44288	14351.00
38	30-	60MIN.	0	0	0	0.00
39	0-	30MIN.	1	1	44288	33393.00
39	30-	60MIN.	0	0	0	0.00
40	0-	30MIN.	1	1	44288	13448.00
40	30-	60MIN.	1	1	125736	13448.00
41	0-	30MIN.	1	1	44288	6327.00
41	30-	60MIN.	0	0	0	0.00
42	0-	30MIN.	0	0	0	0.00
42	30-	60MIN.	1	1	44288	9450.00
43	0-	30MIN.	0	0	0	0.00
43	30-	60MIN.	1	1	44288	12312.00
44	0-	30MIN.	1	1	44288	16024.00
44	30-	60MIN.	0	0	0	0.00
45	0-	30MIN.	0	0	0	0.00
45	30-	60MIN.	1	1	44288	12988.00
46	0-	30MIN.	0	0	0	0.00
46	30-	60MIN.	1	1	44288	13414.00
47	0-	30MIN.	0	0	0	0.00
47	30-	60MIN.	1	1	44288	4645.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 37

60	0-	30MIN.	1	1	57464	6824.00
60	30-	60MIN.	2	2	136490	3412.00
61	0-	30MIN.	1	1	57464	4961.00
61	30-	60MIN.	2	2	136490	2480.50
62	0-	30MIN.	1	1	57464	10881.00
62	30-	60MIN.	2	2	136490	5440.50
63	0-	30MIN.	1	1	57464	8290.00
63	30-	60MIN.	2	2	136490	4145.00
64	0-	30MIN.	2	2	68218	1234.50
64	30-	60MIN.	1	1	125736	2469.00
65	0-	30MIN.	0	0	0	0.00
65	30-	60MIN.	3	3	193954	561.00
66	0-	30MIN.	1	1	10754	12112.00
66	30-	60MIN.	2	2	183200	6056.00
67	0-	30MIN.	1	1	57464	7253.00
67	30-	60MIN.	2	2	136490	3626.50
68	0-	30MIN.	0	0	0	0.00
68	30-	60MIN.	2	2	170024	3291.50
69	0-	30MIN.	0	0	0	0.00
69	30-	60MIN.	1	1	44288	10991.00
70	0-	30MIN.	0	0	0	0.00
70	30-	60MIN.	1	1	44288	7224.00
71	0-	30MIN.	0	0	0	0.00
71	30-	60MIN.	1	1	44288	6942.00

STATEWIDE PROXIMITY ANALYSIS

GE

84	0-	30MIN.	1	1	18463	2217.00
84	30-	60MIN.	0	0	0	0.00
85	0-	30MIN.	0	0	0	0.00
85	30-	60MIN.	0	0	0	0.00
86	0-	30MIN.	0	0	0	0.00
86	30-	60MIN.	0	0	0	0.00
87	0-	30MIN.	1	1	18463	8342.00
87	30-	60MIN.	0	0	0	0.00
88	0-	30MIN.	1	1	18463	2054.00
88	30-	60MIN.	0	0	0	0.00
89	0-	30MIN.	0	0	0	0.00
89	30-	60MIN.	1	1	277696	5256.00
90	0-	30MIN.	0	0	0	0.00
90	30-	60MIN.	0	0	0	0.00
91	0-	30MIN.	0	0	0	0.00
91	30-	60MIN.	0	0	0	0.00
92	0-	30MIN.	1	1	238165	6672.00
92	30-	60MIN.	0	0	0	0.00
93	0-	30MIN.	1	1	238165	4832.00
93	30-	60MIN.	2	2	167746	2416.00
94	0-	30MIN.	1	1	238165	4001.00
94	30-	60MIN.	0	0	0	0.00
95	0-	30MIN.	0	0	0	0.00
95	30-	60MIN.	1	1	238165	4994.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 43

108	0-	30MIN.	0	0	0	0.00
108	30-	60MIN.	1	1	28169	2560.00
109	0-	30MIN.	1	1	25904	13978.00
109	30-	60MIN.	0	0	0	0.00
110	0-	30MIN.	1	1	25904	3392.00
110	30-	60MIN.	0	0	0	0.00
111	0-	30MIN.	0	0	0	0.00
111	30-	60MIN.	1	1	25904	1881.00
112	0-	30MIN.	1	1	25904	4502.00
112	30-	60MIN.	1	1	28169	4502.00
113	0-	30MIN.	0	0	0	0.00
113	30-	60MIN.	3	3	306383	2748.00
114	0-	30MIN.	0	0	0	0.00
114	30-	60MIN.	3	3	306383	2083.67
115	0-	30MIN.	0	0	0	0.00
115	30-	60MIN.	3	3	306383	1876.33
116	0-	30MIN.	1	1	57464	3734.00
116	30-	60MIN.	2	2	136490	1867.00
117	0-	30MIN.	1	1	238165	18588.00
117	30-	60MIN.	1	1	10754	18588.00
118	0-	30MIN.	0	0	0	0.00
118	30-	60MIN.	3	3	306383	1229.00
119	0-	30MIN.	0	0	0	0.00
119	30-	60MIN.	2	2	248919	2153.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 45

132	0-	30MIN.	1	1	156992	24361.00
132	30-	60MIN.	0	0	0	0.00
133	0-	30MIN.	1	1	156992	32540.00
133	30-	60MIN.	0	0	0	0.00
134	0-	30MIN.	1	1	156992	13519.00
134	30-	60MIN.	0	0	0	0.00
135	0-	30MIN.	1	1	156992	5535.00
135	30-	60MIN.	0	0	0	0.00
136	0-	30MIN.	1	1	156992	25589.00
136	30-	60MIN.	0	0	0	0.00
137	0-	30MIN.	0	0	0	0.00
137	30-	60MIN.	1	1	156992	9330.00
138	0-	30MIN.	1	1	156992	6468.00
138	30-	60MIN.	1	1	277696	6468.00
139	0-	30MIN.	1	1	156992	13051.00
139	30-	60MIN.	0	0	0	0.00
140	0-	30MIN.	1	1	156992	20035.00
140	30-	60MIN.	0	0	0	0.00
141	0-	30MIN.	0	0	0	0.00
141	30-	60MIN.	1	1	156992	3089.00
142	0-	30MIN.	0	0	0	0.00
142	30-	60MIN.	1	1	277696	2071.00
143	0-	30MIN.	0	0	0	0.00
143	30-	60MIN.	1	1	277696	5094.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 47

156	0-	30MIN.	0	0	0	0.00
156	30-	60MIN.	1	1	277696	13891.00
157	0-	30MIN.	0	0	0	0.00
157	30-	60MIN.	0	0	0	0.00
158	0-	30MIN.	0	0	0	0.00
158	30-	60MIN.	1	1	277696	8197.00
159	0-	30MIN.	0	0	0	0.00
159	30-	60MIN.	1	1	238165	5319.00
160	0-	30MIN.	0	0	0	0.00
160	30-	60MIN.	1	1	238165	2749.00
161	0-	30MIN.	0	0	0	0.00
161	30-	60MIN.	1	1	10754	7728.00
162	0-	30MIN.	0	0	0	0.00
162	30-	60MIN.	1	1	10754	4304.00
163	0-	30MIN.	0	0	0	0.00
163	30-	60MIN.	0	0	0	0.00
164	0-	30MIN.	0	0	0	0.00
164	30-	60MIN.	1	1	10754	4514.00
165	0-	30MIN.	0	0	0	0.00
165	30-	60MIN.	0	0	0	0.00
166	0-	30MIN.	0	0	0	0.00
166	30-	60MIN.	1	1	10754	3838.00
167	0-	30MIN.	0	0	0	0.00
167	30-	60MIN.	2	2	68218	2224.50

STATEWIDE PROXIMITY ANALYSIS

PAGE 49

180	0-	30MIN.	0	0	0	0.00
180	30-	60MIN.	0	0	0	0.00
181	0-	30MIN.	0	0	0	0.00
181	30-	60MIN.	0	0	0	0.00
182	0-	30MIN.	0	0	0	0.00
182	30-	60MIN.	0	0	0	0.00
183	0-	30MIN.	1	1	238165	189021.00
183	30-	60MIN.	1	1	10754	189021.00
184	0-	30MIN.	0	0	0	0.00
184	30-	60MIN.	3	3	405911	7939.00
185	0-	30MIN.	0	0	0	0.00
185	30-	60MIN.	2	2	248919	6897.50
186	0-	30MIN.	1	1	10754	9871.00
186	30-	60MIN.	1	1	238165	9871.00
187	0-	30MIN.	1	1	10754	7580.00
187	30-	60MIN.	1	1	238165	7580.00
188	0-	30MIN.	0	0	0	0.00
188	30-	60MIN.	1	1	10754	3990.00
189	0-	30MIN.	0	0	0	0.00
189	30-	60MIN.	2	2	248919	1186.50
190	0-	30MIN.	0	0	0	0.00
190	30-	60MIN.	3	3	405911	1322.67
191	0-	30MIN.	0	0	0	0.00
191	30-	60MIN.	3	3	405911	2208.00

STATEWIDE PROXIMITY ANALYSIS

204	0-	30MIN.	0	0	0	0.00
204	30-	60MIN.	0	0	0	0.00
205	0-	30MIN.	0	0	0	0.00
205	30-	60MIN.	0	0	0	0.00
206	0-	30MIN.	0	0	0	0.00
206	30-	60MIN.	0	0	0	0.00
207	0-	30MIN.	0	0	0	0.00
207	30-	60MIN.	1	1	25904	3499.00
208	0-	30MIN.	0	0	0	0.00
208	30-	60MIN.	1	1	25904	764.00
209	0-	30MIN.	0	0	0	0.00
209	30-	60MIN.	0	0	0	0.00
210	0-	30MIN.	0	0	0	0.00
210	30-	60MIN.	1	1	277696	20504.00
211	0-	30MIN.	0	0	0	0.00
211	30-	60MIN.	1	1	277696	5355.00
212	0-	30MIN.	0	0	0	0.00
212	30-	60MIN.	1	1	277696	3512.00
213	0-	30MIN.	0	0	0	0.00
213	30-	60MIN.	0	0	0	0.00
214	0-	30MIN.	0	0	0	0.00
214	30-	60MIN.	1	1	277696	5885.00
215	0-	30MIN.	0	0	0	0.00
215	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 53

228	0-	30MIN.	2	2	183200	5232.50
228	30-	60MIN.	0	0	0	0.00
229	0-	30MIN.	2	2	183200	2021.00
229	30-	60MIN.	0	0	0	0.00
230	0-	30MIN.	2	2	183200	7942.00
230	30-	60MIN.	0	0	0	0.00
231	0-	30MIN.	1	1	125736	8650.00
231	30-	60MIN.	1	1	57464	8650.00
232	0-	30MIN.	1	1	125736	3964.00
232	30-	60MIN.	2	2	101752	1982.00
233	0-	30MIN.	0	0	0	0.00
233	30-	60MIN.	2	2	183200	7536.00
234	0-	30MIN.	0	0	0	0.00
234	30-	60MIN.	1	1	72835	3945.00
235	0-	30MIN.	0	0	0	0.00
235	30-	60MIN.	1	1	72835	1327.00
236	0-	30MIN.	1	1	437220	210214.00
236	30-	60MIN.	2	2	250187	105107.00
237	0-	30MIN.	1	1	437220	9722.00
237	30-	60MIN.	1	1	124451	9722.00
238	0-	30MIN.	1	1	437220	28337.00
238	30-	60MIN.	1	1	124451	28337.00
239	0-	30MIN.	1	1	437220	14629.00
239	30-	60MIN.	1	1	124451	14629.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 55

252	0-	30MIN.	0	0	0	0.00
252	30-	60MIN.	1	1	156992	6270.00
253	0-	30MIN.	0	0	0	0.00
253	30-	60MIN.	1	1	156992	5622.00
254	0-	30MIN.	0	0	0	0.00
254	30-	60MIN.	0	0	0	0.00
255	0-	30MIN.	0	0	0	0.00
255	30-	60MIN.	1	1	156992	7398.00
256	0-	30MIN.	0	0	0	0.00
256	30-	60MIN.	1	1	156992	9650.00
257	0-	30MIN.	0	0	0	0.00
257	30-	60MIN.	1	1	156992	8729.00
258	0-	30MIN.	0	0	0	0.00
258	30-	60MIN.	1	1	101401	9442.00
259	0-	30MIN.	0	0	0	0.00
259	30-	60MIN.	1	1	72835	3849.00
260	0-	30MIN.	0	0	0	0.00
260	30-	60MIN.	1	1	72835	2596.00
261	0-	30MIN.	1	1	72835	4427.00
261	30-	60MIN.	0	0	0	0.00
262	0-	30MIN.	0	0	0	0.00
262	30-	60MIN.	1	1	10754	20382.00
263	0-	30MIN.	0	0	0	0.00
263	30-	60MIN.	1	1	10754	5493.00

276	0-	30MIN.	0	0	0	0.00
276	30-	60MIN.	2	2	7050751	2573.50
277	0-	30MIN.	0	0	0	0.00
277	30-	60MIN.	0	0	0	0.00
278	0-	30MIN.	0	0	0	0.00
278	30-	60MIN.	0	0	0	0.00
279	0-	30MIN.	0	0	0	0.00
279	30-	60MIN.	0	0	0	0.00
280	0-	30MIN.	0	0	0	0.00
280	30-	60MIN.	1	1	18463	3437.00
281	0-	30MIN.	0	0	0	0.00
281	30-	60MIN.	1	1	18463	2793.00
282	0-	30MIN.	0	0	0	0.00
282	30-	60MIN.	0	0	0	0.00
283	0-	30MIN.	0	0	0	0.00
283	30-	60MIN.	0	0	0	0.00
284	0-	30MIN.	1	1	101401	88096.00
284	30-	60MIN.	1	1	7039997	88096.00
285	0-	30MIN.	1	1	101401	206545.00
285	30-	60MIN.	1	1	7039997	206545.00
286	0-	30MIN.	1	1	101401	189639.00
286	30-	60MIN.	1	1	7039997	189639.00
287	0-	30MIN.	1	1	101401	94336.00
287	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

300	0-	30MIN.	1	1	49050	3463.00
300	30-	60MIN.	0	0	0	0.00
301	0-	30MIN.	0	0	0	0.00
301	30-	60MIN.	1	1	49050	3213.00
302	0-	30MIN.	0	0	0	0.00
302	30-	60MIN.	1	1	4453	9021.00
303	0-	30MIN.	0	0	0	0.00
303	30-	60MIN.	1	1	4453	3609.00
304	0-	30MIN.	1	1	4453	5150.00
304	30-	60MIN.	0	0	0	0.00
305	0-	30MIN.	0	0	0	0.00
305	30-	60MIN.	1	1	4453	4832.00
306	0-	30MIN.	0	0	0	0.00
306	30-	60MIN.	0	0	0	0.00
307	0-	30MIN.	0	0	0	0.00
307	30-	60MIN.	0	0	0	0.00
308	0-	30MIN.	0	0	0	0.00
308	30-	60MIN.	0	0	0	0.00
309	0-	30MIN.	0	0	0	0.00
309	30-	60MIN.	0	0	0	0.00
310	0-	30MIN.	0	0	0	0.00
310	30-	60MIN.	0	0	0	0.00
311	0-	30MIN.	1	1	16540	10748.00
311	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 61

324	0-	30MIN.	0	0	0	0.00
324	30-	60MIN.	1	1	7039997	20875.00
325	0-	30MIN.	1	1	7039997	5510.00
325	30-	60MIN.	1	1	101401	5510.00
326	0-	30MIN.	0	0	0	0.00
326	30-	60MIN.	1	1	7039997	4911.00
327	0-	30MIN.	0	0	0	0.00
327	30-	60MIN.	1	1	7039997	5869.00
328	0-	30MIN.	0	0	0	0.00
328	30-	60MIN.	2	2	7141398	3490.00
329	0-	30MIN.	0	0	0	0.00
329	30-	60MIN.	2	2	7141398	12018.00
330	0-	30MIN.	0	0	0	0.00
330	30-	60MIN.	1	1	7039997	7221.00
331	0-	30MIN.	0	0	0	0.00
331	30-	60MIN.	2	2	7141398	2075.50
332	0-	30MIN.	0	0	0	0.00
332	30-	60MIN.	2	2	7141398	2585.00
333	0-	30MIN.	1	1	7039997	5803.00
333	30-	60MIN.	1	1	101401	5803.00
334	0-	30MIN.	0	0	0	0.00
334	30-	60MIN.	1	1	7039997	4059.00
335	0-	30MIN.	0	0	0	0.00
335	30-	60MIN.	1	1	437220	7493.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 63

348	0-	30MIN.	1	1	124451	6828.00
348	30-	60MIN.	0	0	0	0.00
349	0-	30MIN.	1	1	124451	6690.00
349	30-	60MIN.	1	1	437220	6690.00
350	0-	30MIN.	0	0	0	0.00
350	30-	60MIN.	1	1	124451	11840.00
351	0-	30MIN.	1	1	124451	14668.00
351	30-	60MIN.	1	1	437220	14668.00
352	0-	30MIN.	0	0	0	0.00
352	30-	60MIN.	1	1	124451	3465.00
353	0-	30MIN.	0	0	0	0.00
353	30-	60MIN.	0	0	0	0.00
354	0-	30MIN.	0	0	0	0.00
354	30-	60MIN.	0	0	0	0.00
355	0-	30MIN.	0	0	0	0.00
355	30-	60MIN.	1	1	124451	5257.00
356	0-	30MIN.	0	0	0	0.00
356	30-	60MIN.	0	0	0	0.00
357	0-	30MIN.	0	0	0	0.00
357	30-	60MIN.	2	2	561671	2553.00
358	0-	30MIN.	0	0	0	0.00
358	30-	60MIN.	3	3	7298390	28426.33
359	0-	30MIN.	1	1	101401	88235.00
359	30-	60MIN.	1	1	7039997	88235.00

STATEWIDE PROXIMITY ANALYSIS

PAGE 65

372	0-	30MIN.	1	1	156992	6958.00
372	30-	60MIN.	1	1	101401	6958.00
373	0-	30MIN.	0	0	0	0.00
373	30-	60MIN.	2	2	258393	10080.00
374	0-	30MIN.	0	0	0	0.00
374	30-	60MIN.	2	2	258393	10951.50
375	0-	30MIN.	0	0	0	0.00
375	30-	60MIN.	2	2	258393	5649.00
376	0-	30MIN.	0	0	0	0.00
376	30-	60MIN.	1	1	124451	4725.00
377	0-	30MIN.	0	0	0	0.00
377	30-	60MIN.	0	0	0	0.00
378	0-	30MIN.	0	0	0	0.00
378	30-	60MIN.	1	1	124451	4628.00
379	0-	30MIN.	0	0	0	0.00
379	30-	60MIN.	0	0	0	0.00
380	0-	30MIN.	0	0	0	0.00
380	30-	60MIN.	0	0	0	0.00
381	0-	30MIN.	0	0	0	0.00
381	30-	60MIN.	0	0	0	0.00
382	0-	30MIN.	0	0	0	0.00
382	30-	60MIN.	0	0	0	0.00
383	0-	30MIN.	0	0	0	0.00
383	30-	60MIN.	0	0	0	0.00

STATEWIDE PROXIMITY ANALYSIS

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396	0-	30MIN.	0	0	0	0.00
396	30-	60MIN.	2	2	561671	4826.00
397	0-	30MIN.	1	1	124451	6952.00
397	30-	60MIN.	1	1	437220	6952.00
398	0-	30MIN.	0	0	0	0.00
398	30-	60MIN.	2	2	561671	12032.00
399	0-	30MIN.	1	1	124451	22053.00
399	30-	60MIN.	1	1	437220	22053.00
400	0-	30MIN.	1	1	124451	10690.00
400	30-	60MIN.	1	1	437220	10690.00
401	0-	30MIN.	0	0	0	0.00
401	30-	60MIN.	2	2	561671	3240.50
402	0-	30MIN.	0	0	0	0.00
402	30-	60MIN.	2	2	561671	8815.00
403	0-	30MIN.	0	0	0	0.00
403	30-	60MIN.	2	2	561671	3834.00
404	0-	30MIN.	0	0	0	0.00
404	30-	60MIN.	1	1	12922	6846.00
405	0-	30MIN.	0	0	0	0.00
405	30-	60MIN.	0	0	0	0.00
406	0-	30MIN.	0	0	0	0.00
406	30-	60MIN.	1	1	12922	2639.00
407	0-	30MIN.	0	0	0	0.00
407	30-	60MIN.	0	0	0	0.00

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420	0-	30MIN.	0	0	0	0.00
420	30-	60MIN.	2	2	434688	3916.50
421	0-	30MIN.	0	0	0	0.00
421	30-	60MIN.	2	2	434688	2829.00
422	0-	30MIN.	1	1	156992	7814.00
422	30-	60MIN.	1	1	277696	7814.00
423	0-	30MIN.	0	0	0	0.00
423	30-	60MIN.	0	0	0	0.00
424	0-	30MIN.	0	0	0	0.00
424	30-	60MIN.	0	0	0	0.00
425	0-	30MIN.	0	0	0	0.00
425	30-	60MIN.	0	0	0	0.00
426	0-	30MIN.	0	0	0	0.00
426	30-	60MIN.	0	0	0	0.00
427	0-	30MIN.	0	0	0	0.00
427	30-	60MIN.	0	0	0	0.00
428	0-	30MIN.	0	0	0	0.00
428	30-	60MIN.	0	0	0	0.00
429	0-	30MIN.	0	0	0	0.00
429	30-	60MIN.	0	0	0	0.00
430	0-	30MIN.	0	0	0	0.00
430	30-	60MIN.	0	0	0	0.00
431	0-	30MIN.	0	0	0	0.00
431	30-	60MIN.	0	0	0	0.00

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444	0-	30MIN.	0	0	0	0.00
444	30-	60MIN.	1	1	101401	16817.00
445	0-	30MIN.	0	0	0	0.00
445	30-	60MIN.	1	1	101401	6152.00
446	0-	30MIN.	0	0	0	0.00
446	30-	60MIN.	1	1	101401	5028.00
447	0-	30MIN.	0	0	0	0.00
447	30-	60MIN.	0	0	0	0.00
448	0-	30MIN.	0	0	0	0.00
448	30-	60MIN.	0	0	0	0.00
449	0-	30MIN.	0	0	0	0.00
449	30-	60MIN.	0	0	0	0.00
450	0-	30MIN.	0	0	0	0.00
450	30-	60MIN.	0	0	0	0.00
451	0-	30MIN.	0	0	0	0.00
451	30-	60MIN.	0	0	0	0.00
452	0-	30MIN.	0	0	0	0.00
452	30-	60MIN.	1	1	57464	10744.00
453	0-	30MIN.	0	0	0	0.00
453	30-	60MIN.	2	2	183200	2500.50
454	0-	30MIN.	0	0	0	0.00
454	30-	60MIN.	2	2	183200	3161.00
455	0-	30MIN.	0	0	0	0.00
455	30-	60MIN.	2	2	183200	3513.50

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468	0-	30MIN.	0	0	0	0.00
468	30-	60MIN.	0	0	0	0.00
469	0-	30MIN.	0	0	0	0.00
469	30-	60MIN.	2	2	434688	1401.00
470	0-	30MIN.	0	0	0	0.00
470	30-	60MIN.	1	1	277696	4391.00
471	0-	30MIN.	0	0	0	0.00
471	30-	60MIN.	2	2	170024	3235.50
472	0-	30MIN.	0	0	0	0.00
472	30-	60MIN.	3	3	227488	3322.00
473	0-	30MIN.	0	0	0	0.00
473	30-	60MIN.	3	3	227488	3176.33
474	0-	30MIN.	0	0	0	0.00
474	30-	60MIN.	3	3	227488	2398.67
475	0-	30MIN.	0	0	0	0.00
475	30-	60MIN.	3	3	227488	1541.67
476	0-	30MIN.	1	1	44288	6075.00
476	30-	60MIN.	1	1	125736	6075.00
477	0-	30MIN.	0	0	0	0.00
477	30-	60MIN.	2	2	170024	1700.50
478	0-	30MIN.	0	0	0	0.00
478	30-	60MIN.	3	3	227488	2970.00
479	0-	30MIN.	0	0	0	0.00
479	30-	60MIN.	3	3	7152152	33265.67

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492	0-	30MIN.	0	0	0	0.00
492	30-	60MIN.	4	4	7309144	1744.00
493	0-	30MIN.	1	1	101401	203566.00
493	30-	60MIN.	1	1	7039997	203566.00
494	0-	30MIN.	2	2	7141398	243967.00
494	30-	60MIN.	0	0	0	0.00
495	0-	30MIN.	2	2	7141398	302029.50
495	30-	60MIN.	0	0	0	0.00
496	0-	30MIN.	1	1	101401	482178.00
496	30-	60MIN.	1	1	7039997	482178.00
497	0-	30MIN.	2	2	7141398	108012.50
497	30-	60MIN.	0	0	0	0.00
498	0-	30MIN.	2	2	7141398	35010.00
498	30-	60MIN.	0	0	0	0.00
499	0-	30MIN.	2	2	7141398	36863.50
499	30-	60MIN.	0	0	0	0.00
500	0-	30MIN.	1	1	7039997	46538.00
500	30-	60MIN.	1	1	101401	46538.00
501	0-	30MIN.	1	1	7039997	179990.00
501	30-	60MIN.	1	1	101401	179990.00
502	0-	30MIN.	1	1	7039997	151916.00
502	30-	60MIN.	1	1	101401	151916.00
503	0-	30MIN.	1	1	101401	78894.00
503	30-	60MIN.	1	1	7039997	78894.00

FIGURE 5

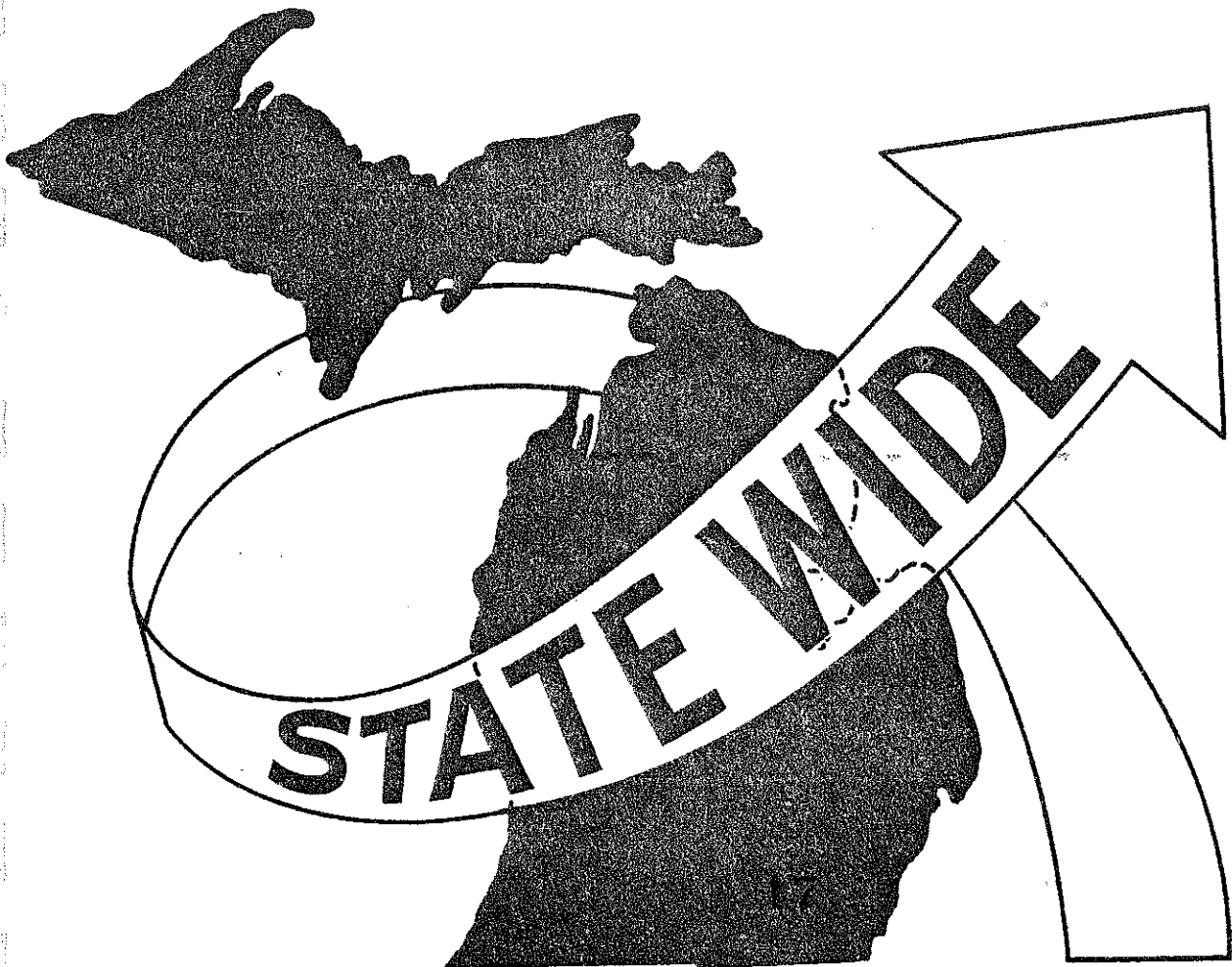
ZONES NOT SERVED BY ANY AIRPORT
WITHIN 60 MINUTES' DRIVING TIME

279	2306
282	1490
283	1940
306	11995
307	5238
308	3231
309	3756
310	3772
320	3662
321	1353
322	2111
336	8106
337	6490
339	5406
340	5652
353	3753
354	5380
356	5031
377	6606
379	2025
380	5345
381	3386
382	3172
383	3751
384	1677
385	2625
386	2495
387	4419
388	3951
389	3086
390	3382
391	4726
392	3012
393	4088
394	3322
405	3351
407	6620
408	3272
423	6588
424	4629
425	6624
426	4966
427	3805
428	4319
429	3958
430	4324
431	1601
432	2301
442	56114
443	15587
447	5849
448	3392
449	4800
450	3220
451	3216
458	3660
460	3701
461	4345

FIGURE 6

POSSIBLE DUPLICATIONS OF
EFFORTS BY AIRPORTS

CONCLUSIONS



CONCLUSIONS

Though air service and highways are usually looked upon as competing modes of transportation, the proximity analysis indicates that they actually complement one another. The eight busiest airports (serving 95% of all air passengers in the state) are within three miles of an interstate route. Four other airports (Battle Creek, Benton Harbor, Jackson, and Sault Ste. Marie, are also juxtapositional to an interstate route. This would indicate, that in Michigan at least, a high type of air service is located near a high type of highway system. This is, of course, quite logical: before a person can board a plane, he first must reach the airport, and all other things being equal, he will get there by the easiest way available. The placing of airports adjacent to the interstate routes is apparent in figure (1).

The analysis techniques used here could be applied in a great variety of situations. For instance, the same process could relate any group of facilities to any socio-economic group, such as calculating the proximity of airports to families having an income of ten thousand dollars or more. Another example, a businessman wishing to locate his facility in an industrial park would be able to find how many airports are within certain driving times of his proposed choices for sites. If the trucking cost of using minimum-time paths were input to the program, a shipper could tell, for each proposed site, how many airports he could reach for ten, twenty, or more dollars of cost. Examples are limited virtually only by the user's imagination.