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MICHIGAN'S AVIATION ACTIVITY



AIR CARRIER AIRPORTS



CONTROL TOWER AIRPORTS



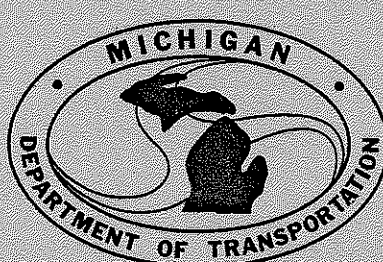
NON-CONTROL TOWER AIRPORTS



REGISTERED AIRCRAFT



LICENSED PILOTS



MICHIGAN DEPARTMENT OF TRANSPORTATION

MICHIGAN'S AVIATION ACTIVITY

CALENDAR YEAR 1979

BUREAU OF TRANSPORTATION PLANNING
MODAL PLANNING DIVISION
AVIATION PLANNING SECTION

MICHIGAN DEPARTMENT OF
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INTRODUCTION

The purpose of this document is to present current and historic aviation activity data useful in planning for, programming improvements to, and operating Michigan's airport system. To this end, this publication presents the following information items . . .

- Air Carrier Airport Activity (at each air carrier airport) - Number of passengers, air mail, and air cargo for January through December 1979 compared to the same period in 1978 with the percent change indicated. Decade profile of total passengers for decade ending in December 1979 including a ranking of the 22 airports.
- Control Tower Airport Activity (at each control tower airport) - Number of itinerant (air carrier, general aviation and air taxi/military), local (general aviation and military), and instrument (total, approaches) operations for January through December 1979 compared to the same period in 1978 with the percent change indicated. Decade profile of total operations for decade ending in December 1979 including a ranking of the 15 airports.
- Non-Control Tower Airport Activity (at selected non-control tower airports) - Number of itinerant and local operations for year ending in December 1979.
- Registered Aircraft (in each county) - Number of registered aircraft in each Michigan county for each year (July through June) in the decade ending in June 1979.
- Licensed Pilots - Number of licensed pilots in Michigan for each year in the decade ending in December 1979

Michigan's aviation system includes 315 licensed and restricted airports. Of these, 22 are used by certificated air carriers, 15 have FAA control towers, 3 are military bases, 6 are seaplane bases, and 4 are heliports. These airports vary in size from the Detroit Metropolitan Wayne County Airport with 4 paved runways, the longest being 10,500 feet, to those with a single turf runway of less than 2,000 feet.

The Michigan State Airport System Plan contains 126 of these licensed airports including all 22 air carrier airports. The National Airport System Plan includes 94 Michigan airports. An airport must be on the MSASP and the NASP to be eligible for state and federal funding respectively.

Sources of this information include the airport managers of the 22 air carrier airports, tower chiefs of the 15 airports with FAA control towers, and the Michigan Department of Transportation (Safety and Services Division of Bureau of Aeronautics).

This type of report is published twice each year. One edition is for the first six months of the calendar year and the other is for the entire calendar year. The data has been compiled and presented in this publication by the Aviation Planning Section, Bureau of Transportation Planning, Michigan Department of Transportation.

AIR CARRIER AIRPORTS

Air carrier passengers in Michigan increased by 9.1 percent during 1979 compared to 1978. The busiest airport in the state in terms of airline passengers continues to be Detroit Metropolitan. Twelve of Michigan's 22 air carrier airports experienced increases and the remaining 10 decreases. Escanaba realized the largest percentage increase, 22.8 percent, and Flint the largest decrease, 12.1 percent. Flint's decrease was due primarily to the United Airlines strike, as United departures constitute nearly half of all scheduled departures at Bishop International.

Historically the number of air carrier passengers at Michigan airports have increased by 48.0 percent during the past decade (see the following table). Nationwide, the increase was 68.4 percent to 580 million in 1979 (see Figure 1). Both Michigan and the United States experienced a decline in passengers in 1970 and 1975, the recession years. Michigan's decline in 1970 extended through 1971 while the nation began its recovery during the same year. Michigan started its decline in 1974, thereby preceding the nation's decline. Both the state and nation recovered simultaneously from the 1974-75 recession and have been increasing at nearly identical high rates of growth since that time.

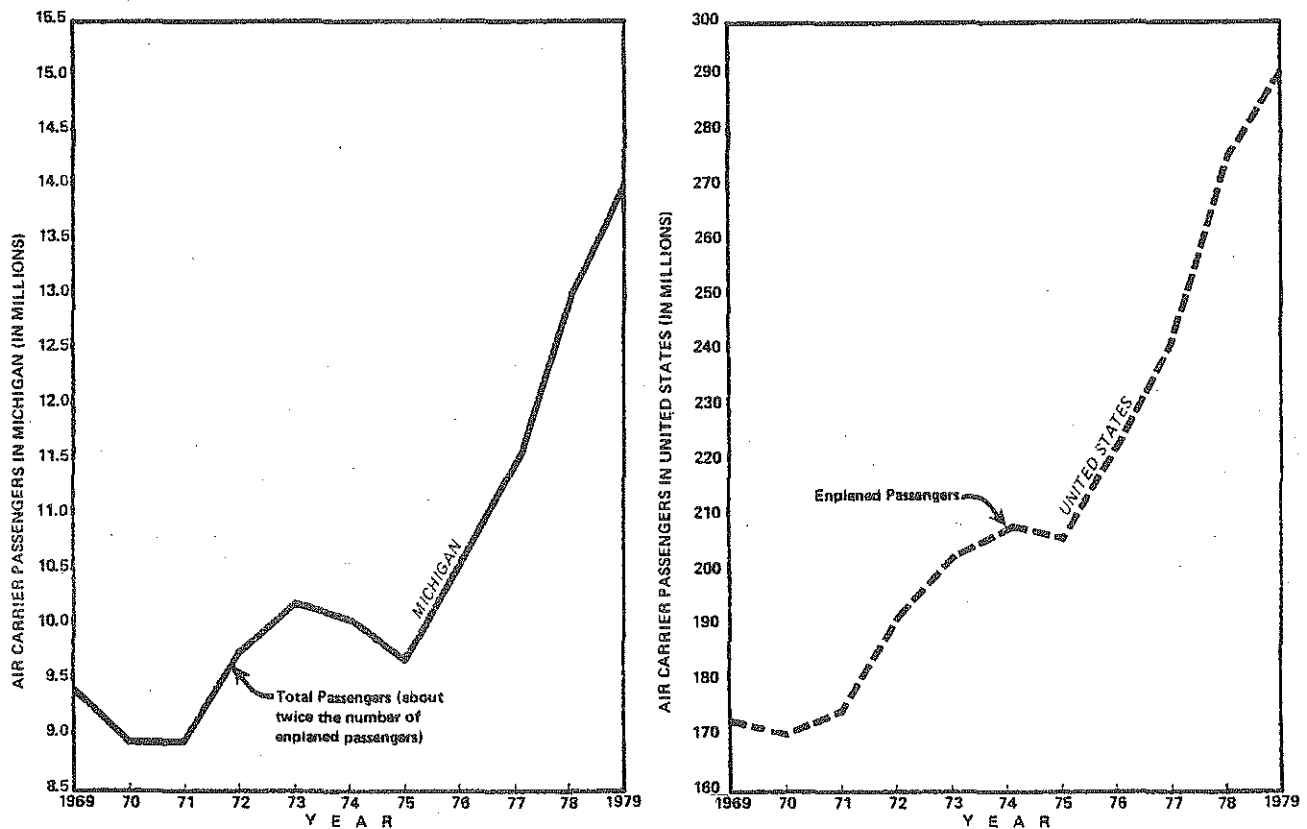


FIGURE 1. CERTIFICATED ROUTE AIR CARRIER PASSENGERS, 1969-79

Three of the five outstate Michigan air carrier airports served by United Airlines experienced a decline in enplaned air carrier passengers in 1979. The exceptions being Kent County

International Airport which increased by 9.2 percent and Tri-City International Airport which increased by 1.3 percent. Four of the five realized a decline in passengers during the United Airlines strike (March 31 through May 28, 1979). Flint and Saginaw had decreases due to the high percentage of United Airlines departures (one of every two) compared to Grand Rapids, Lansing and Muskegon (one of every three). A comparison of the 1978 and 1979 figures for March through June reflect the impact of the strike.

Associated City	%Change 1978 to 1979			
	March	April	May	June
Detroit	+ 0.5%	+ 32.0%	+ 30.4%	+ 14.4%
Flint	- 3.8%	- 50.4%	- 62.5%	+ 6.4%
Grand Rapids	+ 32.2%	- 20.0%	- 8.9%	+ 11.0%
Lansing	+ 15.3%	- 34.4%	- 30.5%	+ 9.5%
Muskegon	+ 4.0%	- 30.4%	- 22.6%	+ 5.1%
Saginaw	+ 15.4%	- 54.9%	- 51.3%	+ 56.2%

Noteworthy is the increase in enplaned passengers at Detroit Metropolitan Airport during the strike. The United Airlines strike did not apparently adversely affect Detroit Metropolitan as United Airlines is just one of many airlines serving Detroit and the strike could have resulted in many persons driving to Metro to begin their flight who otherwise would have initially boarded in Lansing, Flint, or Saginaw.

Four of the five outstate cities served by United Airlines witnessed decreases in total passengers carried for two reasons: The strike and the program of flight reductions. Of the five airports, only Grand Rapids had an increase in total passengers in 1979, 9.6 percent. Air mail and air cargo decreased substantially at all five locations. United Airlines achieved pre-strike levels of service by June and July, but fell behind Republic as far as the percentage split between the two carriers as compared to the 1978 ratios.

The full impact of deregulation in the airline industry is still unclear. The Airline Deregulation Act of 1978 established a new small community air service program which contemplates the payment of federal subsidies to ensure scheduled essential air service, at the same time, certificated air carriers are now less restricted in market entry and exit. The overall result has been a trend to reduce service in low density markets in favor of increasing service in higher density large markets. The airline industry is responding to the consequences of deregulation, fuel prices and the limited availability of fuel. Airlines will adjust operating revenues in order to catch-up to their increased operating costs. Airlines are trying to reduce operating costs and as a percentage of operating revenues.

Mail transported by air declined by 1.2 percent during 1979, while air cargo decreased by 11.1 percent. The use of air carriers as a means of transporting mail is at the discretion of the United States Post Office. Four of the 22 air carrier airports realized increases in the tons of cargo transported with W. K. Kellogg Regional Airport having the highest percentage increase, 37.5 percent. Manistee County Airport experienced the greatest reduction in air cargo processed, 54.1 percent, with six additional airports declining by more than 30 percent.

TOTAL PASSENGERS (INBOUND & OUTBOUND) AT AIR CARRIER AIRPORTS . . . 1969 - 1979

Airport Name ¹ (Community)	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	% Change 69-79
Phelps Collins (Alpena)	11918 (20)	12922 (20)	13817 (20)	15271 (20)	15919 (20)	18450 (20)	17192 (19)	19358 (19)	21921 (19)	25012 (18)	26137 (17)	+119.3%
W. K. Kellogg Regional (Battle Creek)	70852 (9)	57464 (10)	45969 (12)	22158 (17)	22647 (17)	38602 (13)	37686 (14)	44722 (13)	58513 (12)	59497 (13)	56758 (13)	- 19.9%
Ross Field (Benton Harbor)	43212 (12)	44288 (12)	48872 (11)	51261 (10)	52587 (11)	57407 (11)	54119 (10)	60437 (10)	69686 (10)	69138 (11)	73675 (11)	+ 70.5%
Detroit City (Detroit)	147309 (6)	101401 (8)	79061 (8)	65191 (9)	60655 (9)	61756 (9)	52312 (11)	56580 (11)	64211 (11)	71009 (10)	75575 (10)	- 48.7%
Detroit Metropolitan (Detroit)	7416289 (1)	7039997 (1)	7073171 (1)	7628851 (1)	7972613 (1)	7685422 (1)	7274750 (1)	7966765 (1)	8610412 (1)	9588196 (1)	10681457 (1)	+ 44.0%
Delta County (Escanaba)	23935 (15)	28169 (15)	28641 (15)	32753 (14)	27562 (15)	30514 (16)	28986 (16)	33370 (16)	36255 (16)	34887 (16)	42848 (15)	+ 79.03%
Bishop (Flint)	178319 (5)	156992 (5)	155569 (5)	182129 (5)	199143 (5)	203216 (5)	192870 (5)	230446 (5)	261811 (5)	208144 (6)	246123 (6)	+ 38.0%
Kent County International (Grand Rapids)	444732 (2)	437220 (2)	431517 (2)	519868 (2)	530414 (2)	559235 (2)	571958 (2)	618177 (2)	729291 (2)	841316 (2)	922404 (2)	+107.4%
Houghton County Memorial (Houghton/Hancock)	35521 (13)	34883 (13)	34387 (14)	34461 (13)	32492 (13)	37749 (14)	38706 (13)	43413 (14)	45837 (14)	51824 (14)	53695 (14)	+ 51.2%
Ford (Iron Mountain)	22875 (16)	25904 (16)	26662 (16)	25546 (15)	27600 (14)	32221 (15)	32757 (15)	35637 (15)	38803 (15)	44191 (15)	35699 (16)	+ 56.0%
Gogebic County (Ironwood)	14393 (19)	15485 (19)	16399 (18)	17824 (18)	17392 (18)	17206 (20)	16526 (21)	17797 (21)	18803 (21)	20511 (20)	24186 (19)	+ 68.0%
Jackson County -Reynolds (Jackson)	11414 (21)	10754 (21)	11893 (21)	15064 (21)	15801 (21)	17157 (21)	16936 (20)	18100 (20)	20586 (20)	19906 (19)	16992 (21)	+ 48.9%
Kalamazoo Municipal (Kalamazoo)	124734 (8)	125736 (6)	141289 (7)	181833 (6)	190832 (6)	201905 (6)	185591 (6)	221034 (6)	213268 (6)	274488 (5)	283087 (5)	+127.0%
Capital City (Lansing)	263590 (4)	238165 (4)	224996 (4)	277089 (4)	301743 (4)	326563 (4)	327176 (4)	361659 (4)	406844 (4)	447259 (4)	444224 (4)	+ 68.5%
Manistee County-Blacker (Manistee)	8252 (22)	4453 (22)	6625 (22)	8110 (22)	6739 (22)	6669 (22)	5620 (22)	5766 (22)	5697 (22)	5732 (22)	5744 (22)	- 30.4%
Marquette County (Marquette)	43939 (11)	49050 (11)	52107 (10)	59667 (11)	55080 (10)	59967 (10)	63393 (9)	70625 (9)	76021 (9)	85496 (9)	84932 (9)	+ 93.3%
Menominee-Marquette (Menominee)	17171 (18)	16540 (18)	15382 (19)	15998 (19)	16228 (19)	18940 (18)	19192 (18)	19423 (18)	20446 (20)	22499 (19)	21651 (20)	+ 26.0%
Muskegon County (Muskegon)	127722 (7)	124451 (7)	146229 (6)	132620 (7)	133174 (7)	146490 (7)	144667 (7)	160033 (7)	166686 (7)	173232 (7)	167668 (8)	+ 31.3%
Emmet County (Pellston)	32304 (14)	31411 (14)	34421 (13)	38633 (12)	41568 (12)	43937 (12)	45520 (12)	51445 (12)	55712 (13)	60665 (13)	60605 (12)	+ 87.6%
Tri-City International (Saginaw)	312366 (3)	277696 (3)	285027 (3)	314381 (3)	340040 (3)	344169 (3)	328493 (3)	377281 (3)	410762 (3)	452161 (3)	446649 (3)	+ 43.0%
Chippewa Co. International (Sault Ste. Marie)	20459 (17)	18463 (17)	20922 (17)	24026 (16)	24362 (16)	26898 (17)	26588 (17)	30894 (17)	27134 (17)	25389 (17)	26847 (17)	+ 31.2%
Cherry Capital (Traverse City)	69901 (10)	72835 (9)	75604 (9)	83677 (8)	91345 (8)	104831 (8)	102134 (8)	117601 (8)	134578 (8)	152719 (8)	171698 (7)	+145.6%
Total	9441207	8924279	8968560	9746411	10196013	10040904	9668383	10560563	11493277	12805271	13968654	+ 48.0%
United States (000) ²	344555	340235	343831	382685	404377	414782	410100	446608	488046	555167	580260	+ 68.4%
Michigan % of U.S.	2.7%	2.6%	2.6%	2.5%	2.5%	2.4%	2.3%	2.4%	2.4%	2.3%	2.4%	

Notes: ¹ The numbers in parentheses refer to the rank order of airports based on total passengers in order of decreasing magnitude.

² U.S. Totals were obtained by doubling the enplaned passengers. This was done because the Michigan figures include deplaned and enplaned passengers.

Source: Michigan Department of Transportation, Bureau of Transportation, Aviation Planning Section

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PASSENGERS, MAIL & CARGO FOR AIR CARRIER AIRPORTS JAN - DEC, 1979
(AIRPORTS LISTED ALPHABETICALLY)

AIRPORT NAME (COMMUNITY)	JAN THRU DEC	PASSENGERS			PASS RANK MICH	MAIL (POUNDS)			CARGO (TONS)		
		DEPLANED	ENPLANED	TOTAL		INBOUND	OUTBOUND	TOTAL	INBOUND	OUTBOUND	TOTAL
PHELPS COLLINS (ALPENA)	1979	13,117	13,020	26,137	17	0	0	0	120.7	25.9	146.6
	1978	12,397	12,615	25,012	17	0	0	0	156.9	29.3	186.2
	ZCHG	+ 5.8%	+ 3.2%	+ 4.5%		+ 0.0%	+ 0.0%	+ 0.0%	- 23.1%	- 11.6%	- 21.3%
J. K. KELLOGG REGIONAL (BATTLE CREEK)	1979	28,389	28,359	56,758	13	0	0	0	493.4	621.6	1,115.0
	1978	28,915	30,582	59,497	13	0	0	0	275.4	535.8	811.2
	ZCHG	- 1.8%	- 7.2%	- 4.6%		+ 0.0%	+ 0.0%	+ 0.0%	+ 79.2%	+ 16.0%	+ 37.5%
ROSS FIELD (DEVON HARBOR)	1979	36,167	37,508	73,675	11	73	4,692	4,765	116.9	180.7	297.6
	1978	34,707	34,431	69,138	11	6,122	119	6,241	242.4	282.0	524.4
	ZCHG	+ 4.2%	+ 8.9%	+ 6.6%		- 98.8%	+842.9%	- 23.7%	- 51.8%	- 35.9%	- 43.2%
DETROIT CITY (DETROIT)	1979	36,978	38,597	75,575	10	0	0	0	475.5	366.8	842.3
	1978	35,526	35,483	71,009	10	0	0	0	572.9	355.7	928.6
	ZCHG	+ 4.1%	+ 8.8%	+ 6.4%		+ 0.0%	+ 0.0%	+ 0.0%	- 17.0%	+ 3.1%	- 9.3%
DETROIT METROPOLITAN (DETROIT)	1979	5,348,007	5,333,450	10,681,457	1	45,130,781	44,782,110	89,912,891	67,440.5	110,003.9	177,444.4
	1978	4,818,434	4,769,762	9,588,196	1	43,634,833	45,312,372	88,947,205	78,571.2	119,430.6	198,001.8
	ZCHG	+ 11.0%	+ 11.8%	+ 11.4%		+ 3.4%	- 1.2%	+ 1.1%	- 14.2%	- 7.9%	- 10.4%
DELTA COUNTY (ESCANABA)	1979	21,377	21,471	42,848	15	2,784	12,064	14,848	123.1	46.8	169.9
	1978	17,570	17,317	34,887	16	1,009	13,912	14,921	116.3	30.6	146.9
	ZCHG	+ 21.7%	+ 24.3%	+ 22.8%		+175.9%	- 13.3%	- 0.5%	+ 5.8%	+ 52.9%	+ 15.7%
BISHOP (FLINT)	1979	126,360	119,753	246,123	6	99,292	347,464	446,756	894.9	127.9	1,022.8
	1978	141,931	138,213	280,144	5	140,284	459,433	599,717	1,262.5	222.7	1,485.2
	ZCHG	- 11.0%	- 13.3%	- 12.1%		- 29.2%	- 24.4%	- 25.5%	- 29.1%	- 42.6%	- 31.1%
CENT COUNTY INTERNATIONAL (GRAND RAPIDS)	1979	463,136	459,258	922,404	2	491,256	1,289,301	1,780,557	1,556.6	1,290.5	2,847.1
	1978	420,507	420,739	841,246	2	810,186	1,951,901	2,762,087	1,961.0	1,631.6	3,592.6
	ZCHG	+ 10.1%	+ 9.2%	+ 9.6%		- 39.4%	- 33.9%	- 35.5%	- 20.6%	- 20.9%	- 20.8%
BOUGHTON COUNTY MEMORIAL (BOUGHTON/HANCOCK)	1979	26,081	27,614	53,695	14	0	10,568	10,568	85.5	71.7	157.2
	1978	25,543	26,281	51,824	14	0	15,371	15,371	95.6	139.2	234.8
	ZCHG	+ 2.1%	+ 5.1%	+ 3.6%		+ 0.0%	+ 20.8%	+ 20.8%	- 10.6%	- 48.5%	- 33.0%
BORDO (IRON MOUNTAIN)	1979	17,816	17,883	35,699	16	1,243,171	20,456	1,263,627	149.4	87.8	237.2
	1978	21,926	22,255	44,181	15	1,563,728	26,323	1,590,051	303.4	203.4	506.8
	ZCHG	- 18.7%	- 19.7%	- 19.2%		- 20.5%	- 22.3%	- 20.5%	- 50.8%	- 56.8%	- 53.2%
BOGIE COUNTY (IRONWOOD)	1979	12,390	11,796	24,186	19	0	0	0	30.0	12.3	42.3
	1978	10,386	10,125	20,511	20	29	2,176	2,205	34.3	6.7	41.0
	ZCHG	+ 19.3%	+ 16.5%	+ 17.9%		-100.0%	-100.0%	-100.0%	- 12.5%	+ 83.6%	+ 3.2%
JACKSON COUNTY REYNOLDS (JACKSON)	1979	8,341	8,651	16,992	21	52,470	20,928	73,398	92.0	28.7	120.7
	1978	9,710	10,196	19,906	21	59,445	30,642	90,087	105.3	33.3	138.6
	ZCHG	- 14.1%	- 15.2%	- 14.6%		- 11.7%	- 31.7%	- 18.5%	- 12.6%	- 13.8%	- 12.9%
KALAMAZOO MUNICIPAL (KALAMAZOO)	1979	141,410	141,677	283,087	5	286,963	461,942	748,905	377.6	331.4	709.0
	1978	138,673	135,815	274,488	6	342,407	451,892	794,289	429.9	350.7	780.6
	ZCHG	+ 2.0%	+ 4.3%	+ 3.1%		- 16.2%	+ 2.2%	- 5.7%	- 12.2%	- 5.5%	- 9.2%

PASSENGERS - MAIL & CARGO FOR AIR CARRIER AIRPORTS JAN - DEC, 1979
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AIRPORT NAME (COMMUNITY)	JAN THRU DEC	PASSENGERS			PASS RANK MICH	MAIL (POUNDS)			CARGO (TONS)		
		DEPLAINED	ENPLAINED	TOTAL		INBOUND	OUTBOUND	TOTAL	INBOUND	OUTBOUND	TOTAL
CAPITAL CITY (LANSING)	1979	224,178	220,046	444,224	4	395,267	897,220	1,292,487	846.7	463.9	1,310.6
	1978	225,958	221,301	447,259	4	584,446	970,149	1,554,595	1,164.0	445.9	1,609.9
	ZCHG	- 0.8%	- 0.6%	- 0.7%		- 32.4%	- 7.5%	- 16.9%	- 27.3%	+ 4.0%	- 18.6%
MANISTEE COUNTY-BLACKER (MANISTEE)	1979	2,867	2,877	5,744	22	106	3,452	3,558	25.0	13.8	38.8
	1978	2,888	2,844	5,732	22	127	8,735	8,862	53.8	30.8	84.6
	ZCHG	- 0.7%	+ 1.2%	+ 0.2%		- 16.5%	- 60.5%	- 59.9%	- 53.5%	- 55.2%	- 54.1%
MARQUETTE COUNTY (MARQUETTE)	1979	43,092	41,840	84,932	9	3,345	24,251	27,596	271.0	64.4	335.4
	1978	42,927	42,569	85,496	9	1,664	35,278	36,942	260.0	59.9	319.9
	ZCHG	+ 0.4%	- 1.7%	- 0.7%		+101.0%	- 31.3%	- 25.3%	+ 4.2%	+ 7.5%	+ 4.8%
MENOMINEE-MARINETTE (MENOMINEE)	1979	11,183	10,468	21,651	20	63	21,433	21,496	64.6	37.5	102.1
	1978	11,521	10,978	22,499	19	458	19,703	20,161	90.4	62.6	153.0
	ZCHG	- 2.9%	- 4.6%	- 3.8%		- 86.2%	+ 8.8%	+ 6.6%	- 28.5%	- 40.1%	- 33.3%
MUSKEGON COUNTY (MUSKEGON)	1979	86,509	81,159	167,668	8	1,787	1,907	3,694	355.2	370.1	725.3
	1978	87,400	85,832	173,232	7	9,623	905	10,528	404.0	700.3	1,104.3
	ZCHG	- 1.0%	- 5.4%	- 3.2%		- 81.4%	+110.7%	- 64.9%	- 12.1%	- 47.2%	- 34.3%
EMMET COUNTY (PELLSTON)	1979	30,509	30,096	60,605	12	654	443	1,097	113.4	116.3	229.7
	1978	30,537	30,128	60,665	12	266	106	372	130.0	99.7	229.7
	ZCHG	- 0.1%	- 0.1%	- 0.1%		+145.9%	+317.9%	+194.9%	- 12.8%	+ 16.6%	+ 0.0%
TRI-CITY INTERNATIONAL (SAGINAW)	1979	217,020	229,629	446,649	3	59,293	239,694	298,987	671.8	275.7	947.5
	1978	225,416	226,745	452,161	3	67,316	388,259	455,575	945.1	506.8	1,451.9
	ZCHG	- 3.7%	+ 1.3%	- 1.2%		- 11.9%	- 38.3%	- 34.4%	- 28.9%	- 45.6%	- 34.7%
CHIPPEWA CO INTERNATIONAL (SAINT STE. MARIE)	1979	13,828	13,019	26,847	17	49,252	30,628	79,880	49.2	18.9	68.1
	1978	13,210	12,179	25,389	17	36,131	40,853	76,984	52.2	22.4	74.6
	ZCHG	+ 4.7%	+ 6.9%	+ 5.7%		+ 36.3%	- 25.0%	+ 3.8%	- 5.7%	- 15.6%	- 8.7%
CHERRY CAPITAL (TRAVERSE CITY)	1979	82,638	89,060	171,698	7	191,042	29,293	220,335	476.0	389.5	865.5
	1978	74,652	78,067	152,719	8	349,155	20,094	369,249	510.9	502.4	1,013.3
	ZCHG	+ 10.7%	+ 14.1%	+ 12.4%		- 45.3%	+ 45.8%	- 40.3%	- 6.8%	- 22.5%	- 14.6%
TOTAL (MICHIGAN)	1979	6,991,393	6,977,261	13,968,654		48,007,599	48,205,846	96,213,445	74,829.0	114,946.1	189,775.1
	1978	6,430,834	6,374,437	12,805,271		47,607,229	49,748,213	97,355,442	87,737.5	125,682.4	213,419.9
	ZCHG	+ 8.7%	+ 9.5%	+ 9.1%		+ 0.8%	- 3.1%	- 1.2%	+ 14.7%	- 8.5%	- 11.1%

ASSENGERS MAIL & CARGO FOR AIR CARRIER AIRPORTS JAN - DEC , 1979
 (AIRPORTS LISTED IN RANK ORDER BASED ON TOTAL PASSENGERS)

AIRPORT NAME COMMUNITY	JAN THRU DEC	PASSENGERS			PASS RANK	MAIL (POUNDS)			CARGO (TONS)		
		DEPLANED	ENPLANED	TOTAL		INBOUND	OUTBOUND	TOTAL	INBOUND	OUTBOUND	TOTAL
DETROIT METROPOLITAN (DETROIT)	1979	5,348,007	5,333,450	10,681,457	1	45,130,781	44,782,110	89,912,891	67,440.5	110,003.9	177,444.4
	1978	4,818,434	4,769,762	9,588,196	1	43,634,833	45,312,372	88,947,205	78,571.2	119,430.6	198,001.8
	XCHG	+ 11.0%	+ 11.8%	+ 11.4%		+ 3.4%	- 1.2%	+ 1.1%	- 14.2%	- 7.9%	- 10.4%
BENTON COUNTY INTERNATIONAL (GRAND RAPIDS)	1979	463,136	459,268	922,404	2	491,256	1,289,301	1,780,557	1,556.6	1,290.5	2,847.1
	1978	420,607	420,709	841,316	2	810,186	1,951,901	2,762,087	1,961.0	1,631.6	3,592.6
	XCHG	+ 10.1%	+ 9.2%	+ 9.6%		- 39.4%	- 33.9%	- 35.5%	- 20.6%	- 20.9%	- 20.8%
TRI-CITY INTERNATIONAL (SASINAW)	1979	217,020	229,629	446,649	3	59,293	239,694	298,987	671.8	275.7	947.5
	1978	225,416	226,745	452,161	3	67,316	388,259	455,575	945.1	506.8	1,451.9
	XCHG	- 3.7%	+ 1.3%	- 1.2%		- 11.9%	- 38.3%	- 34.4%	- 28.9%	+ 45.6%	- 34.7%
CAPITAL CITY (LANSING)	1979	224,178	220,046	444,224	4	395,267	897,220	1,292,487	846.7	463.9	1,310.6
	1978	225,958	221,301	447,259	4	584,446	970,149	1,554,595	1,164.0	445.9	1,609.9
	XCHG	- 0.8%	- 0.5%	- 0.7%		- 32.4%	- 7.5%	- 16.9%	- 27.3%	+ 4.0%	- 18.6%
ALAMAZOO MUNICIPAL (KALAMAZOO)	1979	141,410	141,677	283,087	5	286,963	461,942	748,905	377.6	331.4	709.0
	1978	138,673	135,815	274,488	6	342,407	451,882	794,289	429.9	350.7	780.6
	XCHG	+ 2.0%	+ 4.3%	+ 3.1%		- 16.2%	+ 2.2%	- 5.7%	- 12.2%	- 5.5%	- 9.2%
BISHOP (FLINT)	1979	126,360	119,763	246,123	6	99,292	347,464	446,756	894.9	127.9	1,022.8
	1978	141,931	138,213	280,144	5	140,284	459,433	599,717	1,262.5	222.7	1,485.2
	XCHG	- 11.0%	- 13.3%	- 12.1%		- 29.2%	- 24.4%	- 25.5%	- 29.1%	+ 42.6%	- 31.1%
HERRY CAPITAL (TRAVERSE CITY)	1979	82,638	89,060	171,698	7	191,042	29,293	220,335	476.0	389.5	865.5
	1978	74,652	78,067	152,719	8	349,155	20,094	369,249	510.9	502.4	1,013.3
	XCHG	+ 10.7%	+ 14.1%	+ 12.4%		- 45.3%	+ 45.8%	- 40.3%	- 6.8%	- 22.5%	- 14.6%
MUSKEGON COUNTY (MUSKEGON)	1979	86,509	81,159	167,668	8	1,787	1,907	3,694	355.2	370.1	725.3
	1978	87,400	85,832	173,232	7	9,623	905	10,528	404.0	700.3	1,104.3
	XCHG	- 1.0%	- 5.4%	- 3.2%		- 81.4%	+110.7%	- 64.9%	- 12.1%	- 47.2%	- 34.3%
MARQUETTE COUNTY (MARQUETTE)	1979	43,092	41,840	84,932	9	3,345	24,251	27,596	271.0	64.4	335.4
	1978	42,927	42,569	85,496	9	1,664	35,278	36,942	260.0	59.9	319.9
	XCHG	+ 0.4%	- 1.7%	- 0.7%		+101.0%	- 31.3%	- 25.3%	+ 4.2%	+ 7.5%	+ 4.8%
DETROIT CITY (DETROIT)	1979	36,978	38,597	75,575	10	0	0	0	475.5	366.8	842.3
	1978	35,526	35,483	71,009	10	0	0	0	572.9	355.7	928.6
	XCHG	+ 4.1%	+ 8.8%	+ 6.4%		+ 0.0%	+ 0.0%	+ 0.0%	- 17.0%	+ 3.1%	- 9.3%
BENTON FIELD (BENTON HARBOR)	1979	36,167	37,508	73,675	11	73	4,692	4,765	116.9	180.7	297.6
	1978	34,707	34,431	69,138	11	6,122	119	6,241	242.4	282.0	524.4
	XCHG	+ 4.2%	+ 8.9%	+ 6.6%		- 98.8%	+842.9%	- 23.7%	- 51.8%	- 35.9%	- 43.2%
PELLSTON COUNTY (PELLSTON)	1979	30,509	30,096	60,605	12	654	443	1,097	113.4	116.3	229.7
	1978	30,537	30,128	60,665	12	266	106	372	130.0	99.7	229.7
	XCHG	- 0.1%	- 0.1%	- 0.1%		+145.9%	+317.9%	+194.9%	- 12.8%	+ 16.6%	+ 0.0%
W. K. KELLOGG REGIONAL (BATTLE CREEK)	1979	28,389	28,369	56,758	13	0	0	0	493.4	621.6	1,115.0
	1978	28,915	30,582	59,497	13	0	0	0	275.4	535.8	811.2
	XCHG	- 1.8%	- 7.2%	- 4.6%		+ 0.0%	+ 0.0%	+ 0.0%	+ 79.2%	+ 16.0%	+ 37.5%

PASSENGERS MAIL & CARGO FOR AIR CARRIER AIRPORTS JAN - DEC , 1979
 (AIRPORTS LISTED IN RANK ORDER BASED ON TOTAL PASSENGERS)

AIRPORT NAME COMMUNITY	JAN THRU DEC	PASSENGERS			PASS RANK HIGH	MAIL (POUNDS)			CARGO (TONS)		
		DEPLANED	ENPLANED	TOTAL		INBOUND	OUTBOUND	TOTAL	INBOUND	OUTBOUND	TOTAL
HOUGHTON COUNTY MEMORIAL (HOUGHTON/HANCOCK)	1979	26,081	27,614	53,695	14	0	18,568	18,568	85.5	71.7	157.2
	1978	25,543	26,281	51,824	14	0	15,371	15,371	95.6	139.2	234.8
	ZCHG	+ 2.1%	+ 5.1%	+ 3.6%		+ 0.0%	+ 20.8%	+ 20.8%	- 10.6%	- 48.5%	- 33.0%
DELTA COUNTY (ESCANABA)	1979	21,377	21,471	42,848	15	2,784	12,064	14,848	123.1	46.8	169.9
	1978	17,570	17,317	34,887	16	1,009	13,912	14,921	116.3	30.6	146.9
	ZCHG	+ 21.7%	+ 24.0%	+ 22.8%		+175.9%	- 13.3%	- 0.5%	+ 5.8%	+ 52.9%	+ 15.7%
FORD (IRON MOUNTAIN)	1979	17,816	17,883	35,699	16	1,263,171	20,456	1,263,627	149.4	87.8	237.2
	1978	21,926	22,265	44,191	15	1,563,728	26,323	1,590,051	303.4	203.4	506.8
	ZCHG	- 18.7%	- 19.7%	- 19.2%		- 20.5%	- 22.3%	- 20.5%	- 50.8%	- 56.8%	- 53.2%
CHIPPEWA CO INTERNATIONAL (SAJLT STE. MARIE)	1979	13,828	13,019	26,847	17	49,252	30,628	79,880	49.2	18.9	68.1
	1978	13,210	12,179	25,389	17	36,131	40,853	76,984	52.2	22.4	74.6
	ZCHG	+ 4.7%	+ 6.9%	+ 5.7%		+ 36.3%	- 25.0%	+ 3.8%	- 5.7%	- 15.6%	- 8.7%
PHELPS COLLINS (ALPENA)	1979	13,117	13,020	26,137	18	0	0	0	120.7	25.9	146.6
	1978	12,397	12,615	25,012	18	0	0	0	156.9	29.3	186.2
	ZCHG	+ 5.8%	+ 3.2%	+ 4.5%		+ 0.0%	+ 0.0%	+ 0.0%	- 23.1%	- 11.6%	- 21.3%
GOGEBIC COUNTY (IRONWOOD)	1979	12,390	11,796	24,186	19	0	0	0	30.0	12.3	42.3
	1978	10,386	10,125	20,511	20	29	2,176	2,205	34.3	6.7	41.0
	ZCHG	+ 19.3%	+ 16.5%	+ 17.9%		-100.0%	-100.0%	-100.0%	- 12.5%	+ 83.6%	+ 3.2%
MENOMINEE-MARINETTE (MENOMINEE)	1979	11,183	10,468	21,651	20	63	21,433	21,496	64.6	37.5	102.1
	1978	11,521	10,978	22,499	19	458	19,703	20,161	90.4	62.6	153.0
	ZCHG	- 2.9%	- 4.5%	- 3.8%		- 86.2%	+ 8.8%	+ 6.6%	- 28.5%	- 40.1%	- 33.3%
JACKSON COUNTY REYNOLDS (JACKSON)	1979	8,341	8,651	16,992	21	52,470	20,928	73,398	92.0	28.7	120.7
	1978	9,710	10,196	19,906	21	59,445	30,642	90,087	105.3	33.3	138.6
	ZCHG	- 14.1%	- 15.2%	- 14.6%		- 11.7%	- 31.7%	- 18.5%	- 12.6%	- 13.8%	- 12.9%
MANISTEE COUNTY-BLACKER (MANISTEE)	1979	2,867	2,877	5,744	22	106	3,452	3,558	25.0	13.8	38.8
	1978	2,888	2,844	5,732	22	127	8,735	8,862	53.8	30.8	84.6
	ZCHG	- 0.7%	+ 1.2%	+ 0.2%		- 16.5%	- 60.5%	- 59.9%	- 53.5%	- 55.2%	- 54.1%
TOTAL (MICHIGAN)	1979	6,991,393	6,977,261	13,968,654		48,007,599	48,205,846	96,213,445	74,829.0	114,946.1	189,775.1
	1978	6,430,834	6,374,437	12,805,271		47,607,229	49,748,213	97,355,442	87,737.5	125,682.4	213,419.9
	ZCHG	+ 8.7%	+ 9.5%	+ 9.1%		+ 0.8%	- 3.1%	- 1.2%	- 14.7%	- 8.5%	- 11.1%

CONTROL TOWER AIRPORTS

The total operations at the control tower airports were 2,180,883, down 19,966 operations or 0.9 percent from last year. The busiest airport in the state remained Oakland - Pontiac. The main reason of this stability was an increase of 5.0 percent in itinerant operations. Detroit Metropolitan was a close second with a strong increase of 14.7 percent in air carrier activity and 5.9 percent increase in itinerant operations. Oakland - Pontiac has very few air carrier operations and had a decline in local operations whereas Detroit Metropolitan has no local operations at all.

Historically, Michigan and national trends reflect a decline in aircraft operations in the 1970-72 period followed by increases in the mid-seventies and a tapering off in recent years (see Figure 2). Little net change has occurred during the past decade in the number of aircraft operations in Michigan and the nation at airports with FAA control towers. While it is true that the number of operations at airports with control towers have increased, so have the number of control tower airports. This has resulted in an actual decrease, 8 percent, in the number of operations per airport over the 10 year period.

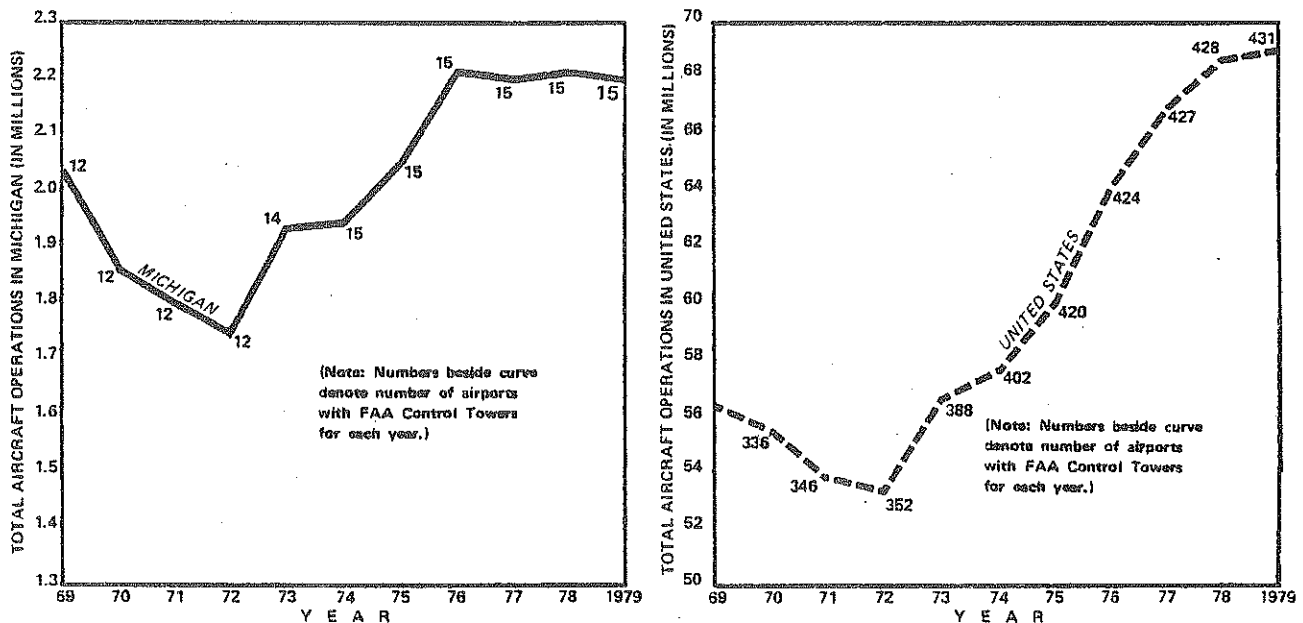


FIGURE 2. AIRCRAFT OPERATIONS AT CONTROL TOWER AIRPORTS, 1969-79

Eleven of these are 24 hour operated towers with the remaining 4 (Ann Arbor, Benton Harbor, Pontiac, and Traverse City) being 18 hour towers. Since 1969 the number of towers in Michigan has increased from 12 to 15, or 25.0 percent (see Figure 2). This is somewhat less than the 31.4 percent increase which occurred nationwide.

TOTAL AIRCRAFT OPERATIONS (LOCAL & ITINERANT) AT TOWER AIRPORTS . . . 1969 - 1979

Airport Name ^{5/} (Community)	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	4/ % Change 69-79
Ann Arbor Municipal (Ann Arbor)					1/65835 (13)	125627 (9)	138263 (8)	141599 (8)	116991 (8)	119543 (8)	125305 (8)	
W. K. Kellogg Regional (Battle Creek)	97143 (11)	86661 (11)	86691 (10)	71384 (12)	68325 (12)	71557 (13)	57648 (14)	61427 (14)	73760 (14)	66529 (14)	60988 (14)	
Ross Field (Benton Harbor)					2/4726 (14)	41385 (14)	41579 (15)	47789 (15)	44086 (15)	47124 (15)	33652 (15)	
Detroit City (Detroit)	254923 (2)	220226 (3)	208364 (3)	209473 (2)	211857 (3)	207145 (3)	184784 (3)	193413 (4)	196781 (5)	195973 (4)	197267 (3)	- 22.6%
Detroit Metropolitan (Detroit)	306177 (1)	277947 (1)	259071 (1)	262596 (1)	278554 (1)	246286 (1)	235135 (2)	247320 (2)	261908 (2)	267862 (2)	283548 (2)	- 7.4%
Detroit Willow Run (Detroit)	193387 (5)	184646 (4)	173528 (5)	185502 (4)	197620 (4)	176290 (4)	171018 (4)	187084 (5)	207127 (4)	215225 (3)	196230 (4)	+ 1.5%
Bishop (Flint)	197409 (4)	183777 (5)	176904 (4)	150749 (6)	145145 (8)	136343 (8)	160986 (7)	200891 (3)	219930 (3)	172849 (5)	172861 (5)	- 12.4%
Kent County International (Grand Rapids)	152439 (7)	136015 (7)	130795 (7)	135818 (8)	160009 (5)	161004 (5)	170543 (5)	163896 (7)	156097 (7)	163811 (6)	161598 (6)	+ 6.0%
Jackson County Reynolds (Jackson)	71700 (12)	64775 (12)	68307 (12)	75055 (11)	79081 (11)	76170 (11)	81046 (12)	86303 (12)	82773 (13)	90048 (12)	94096 (11)	+ 31.2%
Kalamazoo Municipal (Kalamazoo)	139477 (8)	134398 (8)	128219 (8)	137788 (7)	149423 (7)	142403 (6)	13623 (9)	140105 (9)	111408 (9)	117562 (9)	113762 (10)	- 18.4%
Capital City (Lansing)	173859 (6)	155643 (6)	156904 (6)	157865 (5)	153567 (6)	141954 (7)	167538 (6)	174920 (6)	169423 (6)	163035 (7)	146380 (7)	- 15.8%
Muskegon County (Muskegon)	98417 (10)	91486 (9)	96159 (9)	76862 (9)	81401 (10)	84138 (10)	87762 (10)	101233 (10)	97892 (10)	96348 (11)	91604 (12)	- 6.9%
Oakland-Pontiac (Pontiac)	237582 (3)	235914 (2)	228025 (2)	203564 (3)	248001 (2)	238436 (2)	247612 (1)	285508 (1)	278290 (1)	301085 (1)	304471 (1)	+ 28.2%
Tri-City International (Saginaw)	103277 (9)	91249 (10)	78741 (11)	76564 (10)	85493 (9)	75573 (12)	82430 (11)	83500 (13)	88545 (11)	87398 (13)	84662 (13)	- 18.0%
Cherry Capital (Traverse City)						3/9471 (15)	79942 (13)	86860 (11)	86051 (12)	96457 (10)	114459 (9)	
Total	2025730	1862737	1791708	1743220	1929037	1933782	2042517	2201848	2191062	2200849	2180883	+ 7.7%
United States (000)	56232	55280	53702	53226	56554	56845	58935	62492	66724	67173	69040	+ 22.8%
FAA Control Towers	328	336	346	352	388	402	420	424	427	428	431	

Notes: 1/ Ann Arbor Municipal Airport was commissioned June 1973.
 2/ Ross Field Airport (Benton Harbor) was commissioned October 1973.
 3/ Cherry Capital Airport (Traverse City) was commissioned November 1974.
 4/ "% Change" calculated using an "as of" date of December 31.
 5/ The numbers in parentheses refer to the rank order of airports based on total operations in order of decreasing magnitude.

Source: Michigan Department of Transportation, Bureau of Transportation Planning, Aviation Planning Section

ITINERANT, LOCAL & TOTAL OPERATIONS FOR TOWER AIRPORTS JAN - DEC, 1979
(AIRPORTS LISTED ALPHABETICALLY)

AIRPORT NAME (COMMUNITY)	JAN THRU DEC	ITINERANT OPERATIONS				LOCAL OPERATIONS				DPS RANK MICH	INSTRUMENT OPS	
		AIR CARRIER	GENERAL AVIATION	AIR MILITARY	TAXI ITINERANT	GENERAL AVIATION	MILITARY	TOTAL LOCAL	TOTAL OPERATIONS		OPER- ATIONS	APPRG- ACHES
ANN ARBOR MUNICIPAL (ANN ARBOR)	1979	0	48,949	176	49,125	76,160	20	76,180	125,305	8	6,667	0
	1978	0	46,935	525	47,460	71,979	104	72,083	119,543	8	6,000	0
	ZCHG	+ 0.0%	+ 4.3%	- 66.5%	+ 3.5%	+ 5.8%	- 80.8%	+ 5.7%	+ 4.8%	+ 11.1%	+ 0.0%	
W. K. KELLOGG REGIONAL (BATTLE CREEK)	1979	8,337	22,985	5,647	36,970	21,562	2,456	24,018	60,988	14	18,617	0
	1978	2,161	25,444	11,579	39,184	25,512	1,833	27,345	66,529	14	15,927	2,100
	ZCHG	+285.8%	- 9.7%	- 51.2%	- 5.7%	- 15.5%	+ 34.0%	- 12.2%	- 8.3%	+ 16.9%	-100.0%	
ROSS FIELD (BENTON HARBOR)	1979	2,875	17,041	191	20,107	13,537	8	13,545	33,652	15	8,991	0
	1978	3,189	21,553	327	25,069	22,041	14	22,055	47,124	15	9,718	0
	ZCHG	- 9.8%	- 20.9%	- 41.6%	- 19.8%	- 38.6%	- 42.9%	- 38.6%	- 28.6%	- 7.5%	+ 0.0%	
DETROIT CITY (DETROIT)	1979	2,861	113,582	15,541	131,984	65,264	19	65,283	197,267	3	55,694	0
	1978	3,192	110,625	18,057	131,874	64,062	37	64,099	195,973	4	54,344	0
	ZCHG	- 10.4%	+ 2.7%	- 13.9%	+ 0.1%	+ 1.9%	- 48.6%	+ 1.8%	+ 0.7%	+ 2.5%	+ 0.0%	
DETROIT METROPOLITAN (DETROIT)	1979	191,815	73,435	18,298	283,548	0	0	0	283,548	2	505,075	20,962
	1978	167,280	80,515	20,067	267,862	0	0	0	267,862	2	428,888	19,845
	ZCHG	+ 14.7%	- 8.8%	- 8.8%	+ 5.9%	+ 0.0%	+ 0.0%	+ 0.0%	+ 5.9%	+ 17.8%	+ 5.6%	
DETROIT-WILLOW RUN (DETROIT)	1979	20,726	57,339	18,100	96,165	99,913	152	100,065	196,230	4	50,699	0
	1978	13,956	60,703	31,840	106,499	108,503	223	108,726	215,225	3	60,925	0
	ZCHG	+ 48.5%	- 5.5%	- 43.2%	- 9.7%	- 7.9%	- 31.8%	- 8.0%	- 8.8%	- 16.8%	+ 0.0%	
BISHOP (FLINT)	1979	10,150	64,112	2,365	76,627	95,371	863	96,234	172,861	5	139,760	3,925
	1978	10,449	61,355	2,411	74,215	97,616	1,018	98,634	172,849	5	57,721	3,921
	ZCHG	- 2.9%	+ 4.5%	- 1.9%	+ 3.3%	- 2.3%	- 15.2%	- 2.4%	+ 0.0%	+142.1%	+ 0.2%	
KENT COUNTY INTERNATIONAL (GRAND RAPIDS)	1979	24,294	73,051	5,572	102,917	58,429	252	58,681	161,598	6	125,321	7,542
	1978	25,346	73,384	6,166	104,896	58,841	74	58,915	163,811	6	68,039	7,691
	ZCHG	- 4.2%	- 0.5%	- 9.6%	- 1.9%	- 0.7%	+240.5%	- 0.4%	- 1.4%	+ 84.2%	- 1.9%	
JACKSON COUNTY REYNOLDS (JACKSON)	1979	3,170	48,133	836	52,139	41,553	404	41,957	94,096	11	31,841	2,027
	1978	3,133	51,122	609	54,864	34,904	280	35,184	90,048	12	29,233	1,900
	ZCHG	+ 1.2%	- 5.8%	+ 37.3%	- 5.0%	+ 19.0%	+ 44.3%	+ 19.3%	+ 4.5%	+ 8.9%	+ 6.7%	
KALAMAZOO MUNICIPAL (KALAMAZOO)	1979	9,521	58,400	508	68,429	44,965	368	45,333	113,762	10	64,868	3,905
	1978	10,049	62,413	802	73,264	44,084	214	44,298	117,562	9	57,133	3,016
	ZCHG	- 5.3%	- 6.4%	- 36.7%	- 6.6%	+ 2.0%	+ 72.0%	+ 2.3%	- 3.2%	+ 13.5%	+ 29.5%	
CAPITAL CITY (LANSING)	1979	14,817	64,310	7,898	87,025	52,758	6,597	59,355	146,380	7	135,964	5,027
	1978	16,827	69,747	4,668	91,242	64,821	6,972	71,793	163,035	7	58,454	4,255
	ZCHG	- 11.9%	- 7.8%	+ 69.2%	- 4.6%	- 18.6%	- 5.4%	- 17.3%	- 10.2%	+132.6%	+ 18.1%	
MUSKEGON COUNTY (MUSKEGON)	1979	6,902	36,966	2,030	45,898	45,090	616	45,706	91,604	12	35,663	2,655
	1978	8,149	37,165	896	46,210	49,448	690	50,138	96,348	11	31,453	2,106
	ZCHG	- 15.3%	- 0.5%	+126.6%	- 0.7%	- 8.8%	- 10.7%	- 8.8%	- 4.9%	+ 13.4%	+ 26.3%	
TAKLAND-PONTIAC (PONTIAC)	1979	10	150,795	6,790	157,595	146,594	282	146,876	304,471	1	0	0
	1978	59	145,833	4,168	150,060	151,017	8	151,025	301,085	1	37,513	0
	ZCHG	- 83.1%	+ 3.4%	+ 62.9%	+ 5.0%	- 2.9%	+225.0%	- 2.7%	+ 1.1%	-100.0%	+ 0.0%	

ITINERANT, LOCAL & TOTAL OPERATIONS FOR TOWER AIRPORTS JAN - DEC, 1979
(AIRPORTS LISTED ALPHABETICALLY)

AIRPORT NAME (COMMUNITY)	JAN THRU DEC	ITINERANT OPERATIONS				LOCAL OPERATIONS				OPS RANK MICH	INSTRUMENT OPS	
		AIR CARRIER	GENERAL AVIATION	AIR MILITARY	TAXI ITINERANT	GENERAL AVIATION	MILITARY	TOTAL LOCAL	TOTAL OPERATIONS		OPER- ATIONS	APPRO- ACHES
TRI-CITY INTERNATIONAL (SASINAW)	1979	11,200	38,275	4,172	53,647	30,678	337	31,015	84,662	13	96,170	3,477
	1978	11,957	41,152	3,281	56,390	30,780	228	31,008	87,398	13	50,843	2,763
	%CHG	- 6.3%	- 7.0%	+ 27.2%	- 4.9%	- 0.3%	+ 47.8%	+ 0.0%	- 3.1%	+ 89.2%	+ 25.8%	
CHERRY CAPITAL (TRAVERSE CITY)	1979	5,569	41,723	5,431	52,723	56,505	5,231	61,736	114,459	9	17,406	0
	1978	4,272	39,451	4,736	48,459	43,468	4,530	47,998	96,457	10	13,297	0
	%CHG	+ 30.4%	+ 5.8%	+ 14.7%	+ 8.8%	+ 30.0%	+ 15.5%	+ 28.6%	+ 18.7%	+ 30.9%	+ 0.0%	
TOTAL (MICHIGAN)	1979	312,247	909,097	93,555	1,314,899	848,379	17,605	865,984	2,180,883		1,292,736	49,528
	1978	280,919	927,397	110,132	1,317,548	867,076	16,225	883,301	2,200,849		979,488	47,597
	%CHG	+ 11.5%	- 2.0%	- 15.1%	- 0.2%	- 2.2%	+ 8.5%	- 2.0%	- 0.9%	+ 32.0%	+ 4.1%	

ITINERANT & LOCAL AIRPORT OPERATIONS FOR TOWER AIRPORTS -- JAN - DEC, 1979
(AIRPORTS LISTED IN RANK ORDER BASED ON TOTAL OPERATIONS)

AIRPORT NAME (COMMUNITY)	JAN THRU DEC	ITINERANT OPERATIONS				LOCAL OPERATIONS				OPS RANK HIGH	INSTRUMENT OPS	
		AIR CARRIER	GENERAL AVIATION	AIR TAXI MILITARY	TOTAL ITINERANT	GENERAL AVIATION	MILITARY	TOTAL LOCAL	TOTAL OPERATIONS		OPER- ATIONS	APPRO- ACHES
OAKLAND-PONTIAC (PONTIAC)	1979	10	150,795	6,790	157,595	146,594	282	146,876	304,471	1	0	0
	1978	59	145,833	4,168	150,060	151,017	8	151,025	301,085	1	37,513	0
	ZCHG	- 83.1%	+ 3.4%	+ 62.9%	+ 5.0%	- 2.9%	+425.0%	- 2.7%	+ 1.1%	-100.0%	+ 0.0%	
DETROIT METROPOLITAN (DETROIT)	1979	191,815	73,435	18,298	283,548	0	0	0	283,548	2	505,075	20,962
	1978	167,280	80,515	20,067	267,862	0	0	0	267,862	2	428,888	19,845
	ZCHG	+ 14.7%	- 8.8%	- 8.8%	+ 5.9%	+ 0.0%	+ 0.0%	+ 0.0%	+ 5.9%	+ 17.8%	+ 5.6%	
DETROIT CITY (DETROIT)	1979	2,861	113,582	15,541	131,984	65,264	19	65,283	197,267	3	55,694	0
	1978	3,192	110,625	18,057	131,874	64,062	37	64,099	195,973	4	54,344	0
	ZCHG	- 10.4%	+ 2.7%	- 13.9%	+ 0.1%	+ 1.9%	- 48.6%	+ 1.8%	+ 0.7%	+ 2.5%	+ 0.0%	
DETROIT-WILLOW RUN (DETROIT)	1979	20,726	57,339	18,100	96,165	99,913	152	100,065	196,230	4	50,699	0
	1978	13,956	60,703	31,840	106,499	108,503	223	108,726	215,225	3	60,925	0
	ZCHG	+ 48.5%	- 5.5%	- 43.2%	- 9.7%	- 7.9%	- 31.8%	- 8.0%	- 8.8%	- 16.8%	+ 0.0%	
BISHOP (FLINT)	1979	10,150	64,112	2,365	76,627	95,371	863	96,234	172,861	5	139,760	3,929
	1978	10,449	61,355	2,411	74,215	97,616	1,018	98,634	172,849	5	57,721	3,921
	ZCHG	- 2.9%	+ 4.5%	- 1.9%	+ 3.3%	- 2.3%	- 15.2%	- 2.4%	+ 0.0%	+142.1%	+ 0.2%	
KENT COUNTY INTERNATIONAL (GRAND RAPIDS)	1979	24,294	73,051	5,572	102,917	58,429	252	58,681	161,598	6	125,321	7,542
	1978	25,346	73,384	6,166	104,896	58,841	74	58,915	163,811	6	68,039	7,691
	ZCHG	- 4.2%	- 0.5%	- 9.6%	- 1.9%	- 0.7%	+240.5%	- 0.4%	- 1.4%	+ 84.2%	- 1.9%	
CAPITAL CITY (LANSING)	1979	14,817	64,310	7,898	87,025	52,758	6,597	59,355	146,380	7	135,964	5,027
	1978	16,827	69,747	4,668	91,242	64,821	6,972	71,793	163,035	7	58,454	4,255
	ZCHG	- 11.9%	- 7.8%	+ 69.2%	- 4.6%	- 18.6%	- 5.4%	- 17.3%	- 10.2%	+132.6%	+ 18.1%	
ANN ARBOR MUNICIPAL (ANN ARBOR)	1979	0	48,949	176	49,125	76,160	20	76,180	125,305	8	6,667	0
	1978	0	46,935	525	47,460	71,979	104	72,083	119,543	8	6,000	0
	ZCHG	+ 0.0%	+ 4.3%	- 66.5%	+ 3.5%	+ 5.8%	- 80.8%	+ 5.7%	+ 4.8%	+ 11.1%	+ 0.0%	
CHERRY CAPITAL (TRAVERSE CITY)	1979	5,569	41,723	5,431	52,723	56,505	5,231	61,736	114,459	9	17,406	0
	1978	4,272	39,451	4,736	48,459	43,468	4,530	47,998	96,457	10	13,297	0
	ZCHG	+ 30.4%	+ 5.8%	+ 14.7%	+ 8.8%	+ 30.0%	+ 15.5%	+ 28.6%	+ 18.7%	+ 30.9%	+ 0.0%	
KALAMAZOO MUNICIPAL (KALAMAZOO)	1979	9,521	58,400	508	68,429	44,965	368	45,333	113,762	10	64,868	3,905
	1978	10,049	62,413	802	73,264	44,084	214	44,298	117,562	9	57,133	3,016
	ZCHG	- 5.3%	- 6.4%	- 36.7%	- 6.6%	+ 2.0%	+ 72.0%	+ 2.3%	- 3.2%	+ 13.5%	+ 29.5%	
JACKSON COUNTY REYNOLDS (JACKSON)	1979	3,170	48,133	836	52,139	41,553	404	41,957	94,096	11	31,841	2,027
	1978	3,133	51,122	609	54,864	34,904	280	35,184	90,048	12	29,233	1,900
	ZCHG	+ 1.2%	- 5.8%	+ 37.3%	- 5.0%	+ 19.0%	+ 44.3%	+ 19.3%	+ 4.5%	+ 8.9%	+ 6.7%	
MUSKEGON COUNTY (MUSKEGON)	1979	6,902	36,966	2,030	45,898	45,090	616	45,706	91,604	12	35,663	2,659
	1978	8,149	37,165	896	46,210	49,448	690	50,138	96,348	11	31,453	2,106
	ZCHG	- 15.3%	- 0.5%	+126.6%	- 0.7%	- 6.8%	- 10.7%	- 8.8%	- 4.9%	+ 13.4%	+ 26.3%	
TRI-CITY INTERNATIONAL (SAGINAW)	1979	11,200	38,275	4,172	53,647	30,678	337	31,015	84,662	13	96,170	3,477
	1978	11,957	41,152	3,281	56,390	30,780	228	31,008	87,398	13	50,843	2,763
	ZCHG	- 6.3%	- 7.0%	+ 27.2%	- 4.9%	- 0.3%	+ 47.8%	+ 0.0%	- 3.1%	+ 89.2%	+ 25.8%	

ITINERANT, LOCAL & TOTAL OPERATIONS FOR TOWER AIRPORTS -- JAN - DEC, 1978
 (AIRPORTS LISTED IN RANK ORDER BASED ON TOTAL OPERATIONS)

AIRPORT NAME (COMMUNITY)	JAN THRU DEC	ITINERANT OPERATIONS			LOCAL OPERATIONS			TOTAL OPERATIONS	OPS RANK MICH	INSTRUMENT OPS		
		AIR CARRIER	GENERAL AVIATION	AIR TAXI MILITARY	TOTAL ITINERANT	GENERAL AVIATION	MILITARY			TOTAL LOCAL	OPER- ATIONS	APPRO- ACHES
W. K. KELLOGG REGIONAL (BATTLE CREEK)	1979	8,337	22,985	5,647	36,970	21,562	2,456	24,018	60,988	14	18,617	0
	1978	2,161	25,444	11,579	39,184	25,512	1,833	27,345	66,529	14	15,927	2,100
	ZCHG	+285.8%	- 9.7%	- 51.2%	- 5.7%	- 15.5%	+ 34.0%	- 12.2%	- 8.3%	+ 16.9%	-100.0%	
ROSS FIELD (BENTON HARBOR)	1979	2,875	17,041	191	20,107	13,537	8	13,545	33,652	15	8,991	0
	1978	3,189	21,553	327	25,069	22,041	14	22,055	47,124	15	9,718	0
	ZCHG	- 9.8%	- 20.9%	- 41.6%	- 19.8%	- 38.6%	- 42.9%	- 38.6%	- 28.6%	- 7.5%	+ 0.0%	
TOTAL	1979	312,247	909,097	93,555	1,314,899	848,379	17,605	865,984	2,180,883		1,292,736	49,528
	1978	280,019	927,397	110,132	1,317,548	867,076	16,225	883,301	2,200,849		979,488	47,597
	ZCHG	+ 11.5%	- 2.0%	- 15.1%	- 0.2%	- 2.2%	+ 8.5%	- 2.0%	- 0.9%	+ 32.0%	+ 4.1%	

Six of Michigan's control tower airports increased in total operations and eight decreased. Traverse City Cherry Capital realized the greatest percentage increase resulting from a 18.7 percent increase in local general aviation operations. The largest decrease, 28.6 percent, occurred at Ross Field in Benton Harbor as it continued to rank last in total operations among Michigan's control tower airports.

All five outstate airports in Michigan served by United Airlines experienced a decrease in air carrier operations. This was primarily due to the United Airlines strike which lasted from March 31 to May 28, 1979. The percent change in air carrier operations at these airports immediately before, during and after the strike illustrate its impact.

Associated Community	%Change 1978 to 1979			
	March	April	May	June
Detroit	+ 14.4%	+ 10.0%	+ 27.4%	+ 27.1%
Flint	+ 5.3%	- 25.5%	- 29.7%	+ 3.8%
Grand Rapids	- 2.9%	- 33.4%	- 30.9%	+ 1.8%
Lansing	- 6.1%	- 42.8%	- 40.8%	- 3.5%
Muskegon	- 4.7%	- 29.3%	- 32.6%	- 10.9%
Saginaw	+ 1.8%	- 53.2%	- 52.4%	+ 1.8%

In contrast, Detroit Metropolitan, also served by United Airlines, witnessed increases exceeding 10 percent during the strike and continues to register increases in air carrier operations compared to last year.

Additional factors contributed to the decline in total operations at Tri-City International at Saginaw. Flight schools at other airports in the area decreased local general aviation operations, and increased use of these airports for transporting cargo decreased itinerant general aviation operations.

There were one and a half times as many itinerant as local operations in 1979. This is true even though itinerant operations decreased by only 0.2 percent and local operations decreased 2.0 percent during the past year. At the same time, general aviation performs most of the aircraft operations, 80.6 percent, a decrease from 81.5 percent for the same period in 1978. This resulted from the 14.7 percent increase in air carrier operations at Detroit Metropolitan.

NON-CONTROL TOWER AIRPORTS

Usable counts were obtained for 24 non-control tower airports in 1978 and 34 in 1979. Estimated annual operations determined from these counts indicated five airports counted were accommodating more than 50,000 annual operations. Phelps Collins Airport (Alpena), an air carrier airport, and seven other airports exceeded 25,000 annual operations. Empire and Atlanta Municipal Airports in 1978, and Downwind (Willis) in 1979, had less than 2000 operations.

Aircraft traffic counts are taken at most of the existing airports, without FAA control towers, included in the Michigan State Airport System Plan and selected additional airports. This amounts to some 100 airports. Airports are selected for the traffic counter program, generally speaking, on a four or five year rotating basis with consideration given to geographical balance throughout the state. Exceptions are made under the following conditions.

- Construction or expansion of an airport is scheduled or completed.
- An airport master plan or layout plan study is scheduled or underway.
- A regional or area transportation study is scheduled or underway.

Counts are obtained using pneumatic counters strategically placed on an airport to accurately produce a single count for each aircraft take-off or landing.

The purpose of the non-control tower aircraft traffic counter program is to assist in three efforts.

- *Indicate the benefit of an airport to community leaders.* Oftentimes, the general public and governmental officials of communities are not fully aware of the degree to which their airport is used. Even in cases where few aircraft are based at an airport, a significant number of operations may occur. For example, no aircraft are based at Mackinac Island Airport but traffic counters indicate that some 12,000 aircraft use the airport each year.
- *Serve as one basis for statewide airport system planning.* Michigan has 322 licensed and restricted airports open to the public. Knowledge of the number of aircraft operations at these airports is useful in designing airfield improvements and support facilities and in establishing state funding priorities. The counts are also employed to supplement information used in developing individual airport master plans.
- *Justify airports for inclusion in the National Airport System Plan (NASP).* The number of operations is one Federal Aviation Administration criteria used to determine whether an airport should be in the NASP and what classification should be assigned to that airport.

ITINERANT, LOCAL AND TOTAL OPERATIONS FOR NON-CONTROL TOWER AIRPORTS.....1978 and 1979

Associated City	Airport Name	Months Counted	Year	Estimated Annual Operations		
				Itinerant	Local	Total
Alma	Gratiot Community	April-June	1978	4,700	8,900	13,600
Alpena	Phelps Collins	May-July	1978	13,500	13,500	27,000
Atlanta	Atlanta Municipal	June & July	1978	625	1,200	1,825
Baldwin	Baldwin Municipal	June-August	1978	2,500	0	2,500
Bellaire	Antrim County	July-Nov.	1978	10,600	800	11,400
Big Rapids	Roben Hood	June-Sept.	1978	4,500	8,500	13,000
Boyne City	Boyne City Municipal	June-Sept.	1978	2,400	4,550	6,950
Cadillac	Wexford County	May & June	1978	3,500	6,500	10,000
Cheboygan	City-County	April & May	1978	4,000	7,600	11,600
Clare	Clare Municipal	May-July	1978	1,900	3,550	5,450
East Tawas	Iosco County	Aug.-Oct.	1978	3,575	6,775	10,350
Empire	Empire	Aug.-Oct.	1978	650	1,250	1,900
Ewart	Ewart Municipal	May & June	1978	925	1,725	2,650
Frankford	City-County	July-Oct.	1978	3,600	6,850	10,450
Fremont	Fremont Municipal	July-Sept.	1978	4,450	8,400	12,850
Greenville	Greenville Municipal	July-Sept.	1978	6,400	12,100	18,500
Manistee	Manistee Co. Blacker	June & July	1978	12,250	12,250	24,500
Marine City	Marine City	June & July	1978	4,050	7,700	11,750
Pellston	Emmett County	June-Sept.	1978	9,750	9,750	19,500
Port Huron	St. Clair Co. Int'l.	June-Aug.	1978	24,900	47,100	72,000
Romeo	Romeo	Aug. & Sept.	1978	8,850	16,700	25,550
Troy	Big Beaver	June & July	1978	2,650	4,950	7,600
Utica	Berz-Macomb	Aug. & Sept.	1978	22,050	41,750	63,800
West Branch	West Branch Community	April & May	1978	1,625	3,075	4,700
Allegan	Padgham Field	May-July	1979	4,700	8,900	13,600
Atlanta	Municipal	July-Aug.	1979	1,100	2,100	3,200
Bad Axe	Huron County Memorial	May-July	1979	5,400	10,200	15,600
Bay City	James Clements	May-July	1979	6,900	13,100	20,000
Caro	Municipal	May-July	1979	2,600	4,900	7,500
Charlotte	Fitch H. Beach	Sept.-Oct.	1979	7,300	13,900	21,200
Coldwater	Branch Co. Memorial	June-Aug.	1979	8,700	16,500	25,200
Croswell*	Arnold	Aug.-Oct.	1979	1,500	2,900	4,400
Dowagiac	Cass Co. Memorial	Sept.-Oct.	1979	4,800	9,100	13,900
Fraser	McKinley	July-Aug.	1979	25,800	48,900	74,700
Gladwin	Municipal	May-July	1979	3,250	6,100	9,350
Grand Haven	Memorial	May-Aug.	1979	6,100	11,550	17,650
Grosse Ile	Municipal	Aug.-Oct.	1979	16,500	31,200	47,700
Harrison	Clare County	April-July	1979	2,600	4,800	7,400
Hillsdale	Hillsdale Municipal	May-Aug.	1979	5,200	9,700	14,900
Holland	Park Township	May-Aug.	1979	4,500	8,500	13,000
Holland	Tulip City	May-July	1979	7,000	13,200	20,200
Howell	Livingston Co.	Sept.-Oct.	1979	13,150	24,850	38,000
Mackinac Is.	Mackinac Is.	Jan.-Dec.	1979	16,270	0	16,270
Marine City	Marine City	May-July	1979	6,300	12,000	18,300
Marshall	Brooks Field	May-July	1979	6,200	11,700	17,900
Mason	Jewett	June-July	1979	8,850	16,750	25,600
Mt. Pleasant	Municipal	May-July	1979	11,700	22,000	33,700
New Haven*	Macomb	Aug.-Oct.	1979	2,350	4,450	6,800
Niles	Jerry Tyler Memorial	Aug.-Oct.	1979	8,600	16,200	24,800
Plymouth	Mettetal	May-June	1979	29,600	56,000	85,600
Port Huron	St. Clair County	May-July	1979	25,500	48,300	73,800
Romeo	Romeo	Aug.-Oct.	1979	6,600	12,400	19,000
Sandusky	City	May-July	1979	2,000	3,900	5,900
South Haven	Municipal	Aug.-Oct.	1979	11,600	6,100	17,700
Rockwood*	Carl's	Aug.-Oct.	1979	1,900	3,550	5,450
Three Rivers	Dr. Haines	May-July	1979	5,900	11,200	17,100
Willis*	Downwind Acres	Aug.-Oct.	1979	250	450	700
Wilcox*	Spencer Field	Aug.-Oct.	1979	1,400	2,600	4,000

* New aircraft traffic counter locations in 1979; all other airports listed have a count for at least one previous year.

SOURCE: Michigan Department of Transportation, Aviation Planning Section

REGISTERED AIRCRAFT

The number of registered aircraft increased significantly during the past decade both in Michigan and the United States. Michigan increased by 23.8 percent while the United States experienced a 57.9 percent rise.

The past decade was characterized by extremes in economic conditions. A mild recession in 1970 and a more severe one in 1974 and 1975 were each followed by three years of substantial economic growth. It appears that the recession of 1974-75 caused a decline in Michigan aircraft registrations (see Figure 3), but neither recession appeared to affect aircraft registrations nationally.

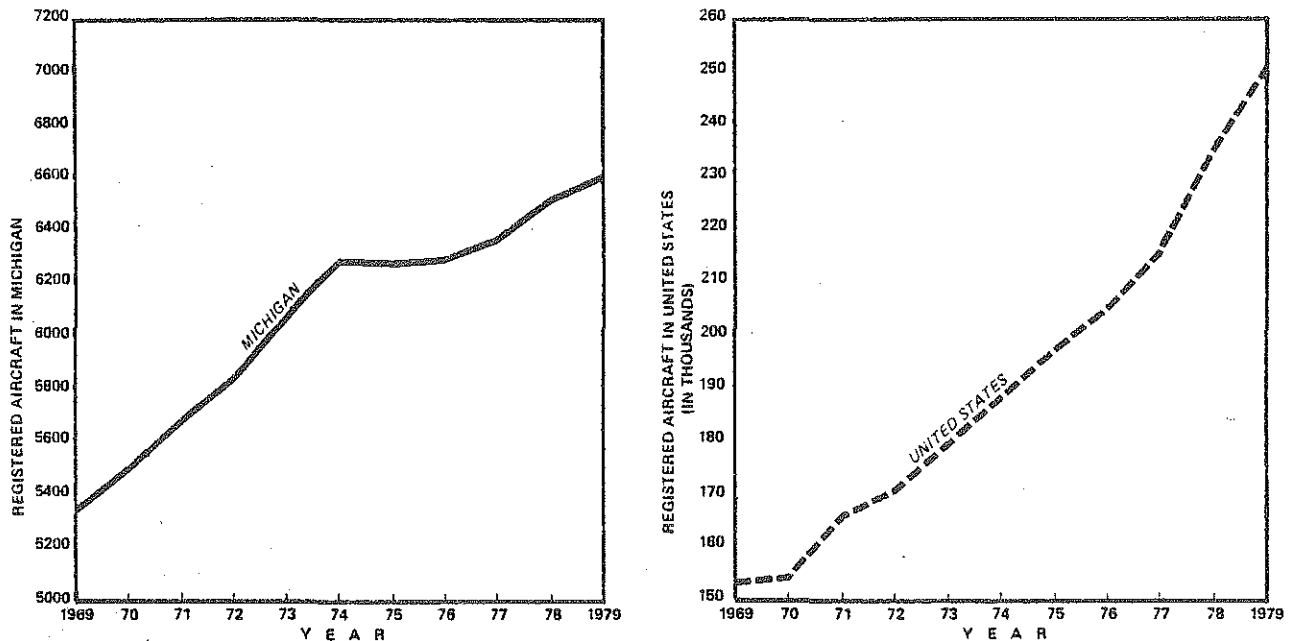


FIGURE 3. REGISTERED AIRCRAFT, 1969-79

The fiscal year ending in June 1979 yielded a record high 6600 aircraft registered in Michigan. During the past year, the number increased by 87, or 1.3 percent, which was about half that experienced in 1977-78.

The Federal Aviation Administration reports that there were 8,659 active aircraft in Michigan in 1979. The discrepancy between 8,659 and 6,600 is caused by many factors, principally non-registered aircraft and sales transactions.

Wayne and Oakland counties continue to have the most aircraft in Michigan. Wayne County has 867 registered aircraft, a figure which has fluctuated very little during the seventies. Oakland County has 822 registered aircraft and could surpass Wayne County in the next year or two if their present growth rate continues. On the other end of the scale, six Michigan counties have less than five registered aircraft.

REGISTERED AIRCRAFT BY MICHIGAN COUNTIES . . . 1969 - 1979

County	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	% Change 69-79
Alcona	4	4	5	9	12	12	11	12	11	10	11	+175.0%
Alger	1	2	3	1	2	1	1	1	1	1	2	+100.0%
Allegan	85	79	77	94	110	110	100	92	96	98	95	+ 11.8%
Alpena	24	27	23	24	24	18	21	20	27	26	18	- 25.0%
Antrim	12	12	13	14	16	16	15	21	23	24	23	+ 91.7%
Arenac	11	8	7	8	7	9	9	8	5	8	7	- 36.4%
Baraga	0	0	1	1	4	3	4	3	1	2	1	---
Barry	16	22	20	28	29	26	16	19	19	24	25	+ 56.3%
Bay	43	40	39	56	63	60	57	52	54	54	53	+ 23.3%
Benzie	1	3	2	3	6	5	5	5	7	9	15	+1400.0%
Berrien	112	113	115	129	139	131	133	144	147	142	141	+ 25.9%
Branch	47	46	52	49	48	59	68	81	65	63	52	+ 10.6%
Calhoun	86	100	117	110	114	124	107	100	96	95	89	+ 3.5%
Cass	33	36	33	32	35	33	37	42	43	40	34	+ 3.0%
Charlevoix	30	32	32	34	39	41	46	53	50	51	44	+ 46.7%
Cheboygan	3	7	4	9	17	16	20	22	21	20	27	+800.0%
Chippewa	29	25	33	32	30	26	32	25	37	34	31	+ 6.9%
Clare	21	18	18	21	23	20	24	18	27	26	30	+ 42.9%
Clinton	244	239	229	229	224	247	238	239	250	258	274	+ 12.3%
Crawford	0	1	4	8	10	9	7	4	4	7	10	---
Delta	16	18	13	20	18	21	22	22	18	32	27	+ 68.8%
Dickinson	15	16	14	21	21	17	16	15	17	17	13	- 13.3%
Eaton	62	70	67	60	65	54	60	59	61	58	66	+ 6.5%
Emmet	20	15	19	22	26	23	23	23	21	25	26	+ 30.0%
Genesee	320	315	341	348	326	315	324	313	330	311	312	- 2.5%
Gladwin	26	25	23	21	21	13	13	11	11	11	14	- 46.2%
Gogebic	10	10	13	13	15	15	15	15	13	18	13	+ 30.0%
Grand Traverse	29	33	45	53	53	65	64	85	88	86	98	+237.9%
Gratiot	32	44	39	41	40	35	45	39	39	39	36	+ 12.5%
Hillsdale	30	33	29	36	33	26	32	29	23	29	25	- 16.7%
Houghton	18	18	17	16	16	15	13	12	15	13	13	- 27.8%
Huron	27	35	31	30	30	29	29	39	47	40	42	+ 55.6%
Ingham	19	31	32	29	34	38	51	40	44	54	63	+231.6%
Ionia	29	34	44	42	42	40	47	41	47	44	50	+ 72.4%
Iosco	19	21	23	16	23	24	25	20	24	21	19	0.0%
Iron	17	18	16	10	14	10	10	13	11	10	7	- 58.8%
Isabella	49	40	41	43	57	59	55	64	66	67	61	+ 24.5%
Jackson	119	126	127	120	127	138	130	133	142	144	148	+ 24.4%
Kalamazoo	188	208	205	206	200	209	207	204	196	193	198	+ 5.3%
Kalkaska	0	0	0	0	0	2	1	3	5	6	6	---
Kent	236	241	233	242	252	292	297	289	290	316	324	+ 37.3%
Keweenaw	0	0	0	0	0	0	0	0	2	1	0	0.0%
Lake	0	0	0	1	1	0	0	0	3	2	2	---
Lapeer	63	67	64	55	56	58	61	64	60	62	77	+ 22.2%
Leelanau	6	4	5	5	9	12	14	20	18	17	17	+183.3%
Lenawee	83	79	86	102	111	116	135	125	113	119	122	+ 47.0%
Livingston	69	82	91	103	124	149	153	135	124	131	132	+ 91.3%
Luce	7	4	3	2	3	3	6	5	6	3	2	- 71.4%

REGISTERED AIRCRAFT BY MICHIGAN COUNTIES . . . 1969 - 1979

County	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	% Change 69-79
Mackinac	10	11	14	11	15	13	15	13	17	19	14	+ 40.0%
Macomb	196	192	172	173	200	234	257	282	289	259	277	+ 40.3%
Manistee	9	7	11	11	11	14	16	15	15	16	16	+ 77.8%
Marquette	38	34	37	47	46	53	52	54	47	57	50	+ 31.6%
Mason	20	23	24	25	30	27	29	28	23	22	25	+ 25.0%
Mecosta	17	16	15	15	21	24	23	20	22	21	22	+ 29.4%
Menominee	13	13	18	17	24	24	15	17	20	21	24	+ 84.6%
Midland	49	56	54	45	45	52	52	56	54	49	52	+ 6.1%
Missaukee	8	6	6	9	12	14	14	14	12	15	16	+100.0%
Monroe	121	128	159	151	168	168	159	137	139	155	151	+ 24.8%
Montcalm	69	69	80	80	77	87	93	83	74	69	75	+ 8.7%
Montmorency	13	13	16	16	18	15	14	12	11	9	10	- 23.1%
Muskegon	85	79	75	88	68	73	73	70	83	78	86	+ 1.2%
Newaygo	25	29	28	29	47	44	50	52	49	55	45	+ 80.0%
Oakland	684	734	780	781	753	785	730	738	760	793	822	+ 20.2%
Oceana	8	7	6	10	12	8	11	12	11	11	14	+ 75.0%
Ogemaw	5	9	12	12	12	11	10	12	11	10	9	+ 80.0%
Ontonagon	5	4	6	9	10	10	10	10	9	7	6	+ 20.0%
Osceola	22	16	8	7	6	5	7	10	7	5	6	- 72.7%
Oscoda	2	2	1	1	3	2	2	3	2	2	3	+ 50.0%
Otsego	20	13	22	20	28	24	25	21	19	21	20	0.0%
Ottawa	66	61	65	64	67	88	76	90	97	96	102	+ 54.5%
Presque Isle	3	7	8	7	8	5	6	8	6	8	8	+166.7%
Roscommon	14	18	16	17	23	22	23	23	29	33	23	+ 64.2%
Saginaw	111	107	89	95	103	119	133	131	127	136	137	+ 23.4%
St. Clair	81	79	87	89	92	103	101	102	87	90	93	+ 14.8%
St. Joseph	41	41	39	43	46	48	47	47	50	52	53	+ 29.3%
Sanilac	50	53	48	45	51	53	46	59	53	49	55	+ 10.0%
Schoolcraft	6	10	11	20	15	14	9	4	8	7	5	- 16.7%
Shiawassee	55	51	57	65	70	65	75	72	71	72	77	+ 40.0%
Tuscola	25	30	37	37	42	42	42	45	47	49	54	+116.0%
Van Buren	146	52	47	45	52	60	62	55	54	59	59	+ 28.3%
Washtenaw	196	232	272	279	280	303	306	317	337	345	329	+ 67.9%
Wayne	851	823	819	822	855	837	855	837	853	867	857	+ 0.7%
Wexford	20	18	20	15	17	19	17	18	20	19	23	+ 15.0%
Subtotal	5295	5444	5607	5748	5996	6209	6254	6246	6331	6437	6513	+ 23.0%
Out-of-State/Other	38	60	75	83	78	67	21	28	30	76	87	---
Total	5333	5504	5682	5831	6074	6276	6275	6274	6361	6513	6600	+ 23.8%

Source: Michigan Department of Transportation, Aircraft Registration Records

LICENSED PILOTS

Trends in the number of licensed pilots in Michigan and the United States during the past decade were characterized generally by a significant increase with dips occurring in 1973 and 1975. Licensed pilots in Michigan increased by 11.9 percent, similar to the nationwide increase of 12.8 percent. The number of student pilots increased 3.3 percent since 1969 while the number of flight instruction pilots nearly doubled.

<u>Year</u>	<u>Michigan</u>	<u>United States</u>	<u>Michigan as Percent of U.S.</u>
1969	25,706	708,312	3.6%
1970	25,836	714,778	3.6%
1971	26,152	721,876	3.6%
1972	26,585	734,763	3.6%
1973	24,409	700,376	3.5%
1974	24,562	724,366	3.4%
1975	23,822	718,974	3.3%
1976	24,262	732,422	3.3%
1977	25,317	769,767	3.3%
1978	25,631	785,581	3.3%
1979	28,756	798,830	3.6%

The recessions of 1970 and 1974-75 may be one of the factors causing the absolute decrease in student pilots and the temporary drop in total pilots in 1975.