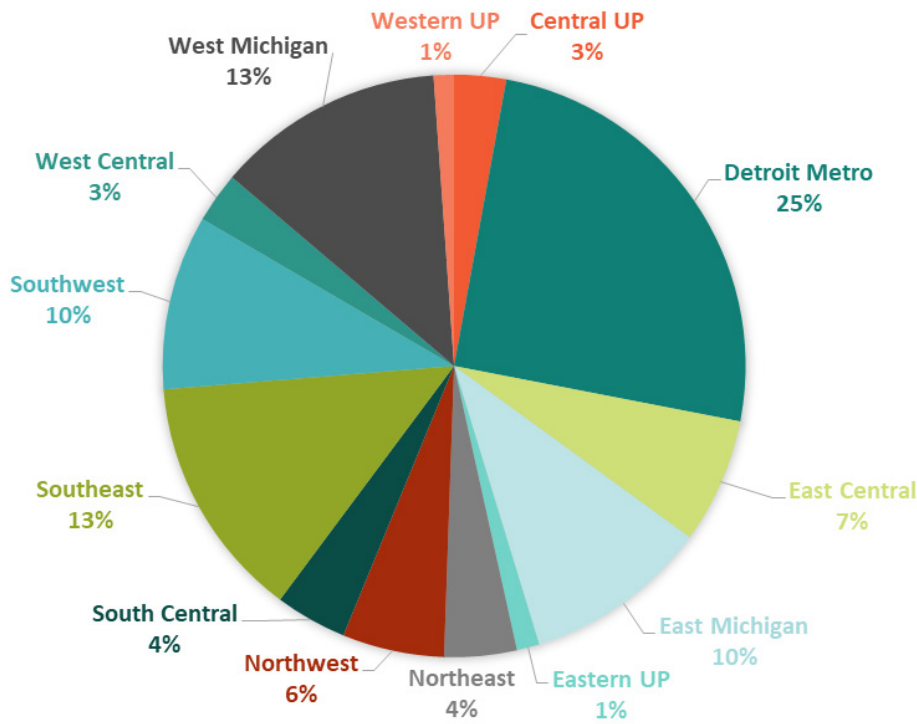


FORECASTS

Percentage of Aircraft Operations by Prosperity Region for Tier 1 and Tier 2 Airports



Based Aircraft by Prosperity Region for Tier 1 and Tier 2 Airports

Region	Historical		Forecast		
	2015	2020	2025	2030	2035
Tier 1 and Tier 2 Airports					
Western UP	61	63	65	67	70
Central UP	156	161	167	172	178
Eastern UP	68	70	73	75	78
Northwest	307	318	329	340	351
Northeast	218	226	233	241	249
West Central	152	157	163	168	173
West Michigan	687	711	736	760	786
East Central	378	391	405	418	432
East Michigan	557	576	596	616	637
South Central	216	223	231	239	246
Southwest	526	544	563	581	600
Southeast	734	760	786	812	839
Detroit Metro	1,366	1,560	1,462	1,510	1,560
Tier 3 Airports					
All Tier 3 Airports	538	549	557	571	585
Total	5,964	6,309	6,366	6,570	6,784



Aviation activity as a whole slowed during the economic downturn of 2008 across the country and Michigan was no exception. However, activity has picked up in recent years and forecasts predict slow but steady and sustainable growth over the forecast period (2015-2035). 2017 MASP forecasts were generated using a market share methodology and are within the allowed variance from forecasts conducted at the federal level in the FAA's Terminal Area Forecast (TAF).

Similar to the economic impact of the system, the largest portion of aircraft operations and based aircraft in the state are seen in the Detroit Metro Prosperity Region and the West Michigan Prosperity Region as home to the Detroit Metropolitan Wayne County International Airport and Gerald R. Ford International Airport, respectively.

The two tables below include the historical based aircraft and operation counts for Tier 1 and Tier 2 airports along with the forecasted activity by prosperity region. Forecasts for Tier 3 airports are added as a line item at the bottom of the tables.

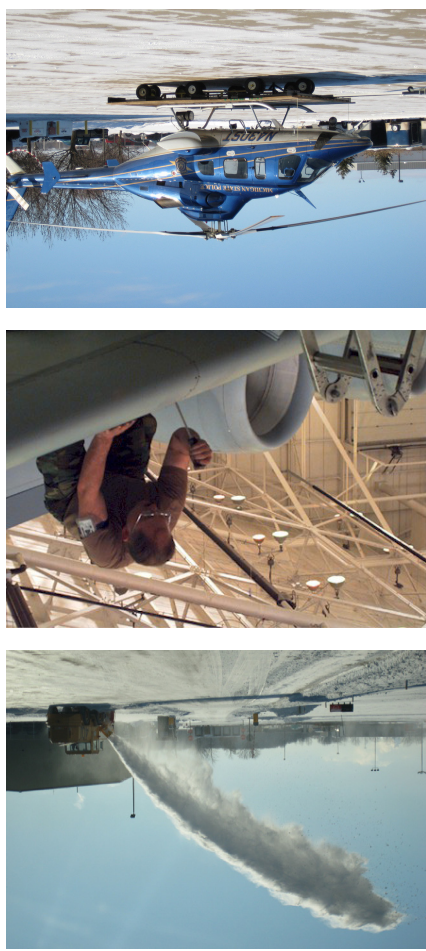
Aircraft Operations by Prosperity Region for Tier 1 and Tier 2 Airports

Region	Historical		Forecast		
	2015	2020	2025	2030	2035
Tier 1 and Tier 2 Airports					
Western UP	23,891	24,442	25,060	25,778	26,541
Central UP	68,980	70,573	72,359	74,434	76,637
Eastern UP	41,409	42,418	43,526	44,781	46,104
Northwest	188,892	193,277	198,182	203,869	209,899
Northeast	73,832	75,544	77,460	79,683	82,040
West Central	37,727	38,409	39,378	40,507	41,705
West Michigan	239,425	245,031	251,282	258,498	266,143
East Central	86,807	88,856	91,133	93,752	96,525
East Michigan	177,196	181,412	185,394	190,745	196,319
South Central	66,428	67,227	67,932	69,887	71,890
Southwest	226,844	232,111	238,003	244,832	252,074
Southeast	214,711	219,765	225,390	231,865	238,722
Detroit Metro	746,088	772,957	796,129	821,516	848,303
Tier 3 Airports					
All Tier 3 Airports	98,557	101,389	103,911	106,829	109,951
Total	2,290,787	2,353,411	2,415,139	2,486,976	2,562,843

ECONOMIC IMPACT

Source: CBA Tool, Economic Impact Studies from GRR, YIP, DTM

Prosperity Region	Jobs	Income (\$)	Output (\$)	Ranking
Detroit Metro	90,674	\$3,502,888,000	\$1,495,318,000	1
West Michigan	47,934	\$1,864,949,000	\$4,377,862,000	2
Northeast	8,355	\$291,003,000	\$1,445,289,000	3
Northwest	10,319	\$362,420,000	\$1,280,145,000	4
Southwest	3,547	\$157,162,000	\$650,366,000	5
East Michigan	5,053	\$186,498,000	\$622,876,000	6
West Central	4,363	\$168,876,000	\$482,939,000	7
South Central	3,938	\$140,387,000	\$375,282,000	8
Central UP	2,437	\$93,200,000	\$354,834,000	9
East Central	2,226	\$100,552,000	\$295,260,000	10
Eastern UP	1,794	\$81,650,000	\$189,002,000	11
Southeast	1,262	\$57,156,000	\$181,705,000	12
Western UP	1,700	\$42,816,000	\$156,562,000	13
TOTAL	183,597	\$7,049,507,000	\$21,907,440,000	



The two prosperity regions in the state with the greatest impact are the Detroit Metro Prosperity Region as the home of the Detroit Metropolitan Wayne County International Airport and the West Michigan Prosperity Region as home to the second largest commercial service airport in the state, the Gerald R. Ford International Airport in Grand Rapids.

Notes: Dollars updated to 2016 using BEA price deflators for GDP. Dollars published January, 2015. Additional economic impact since study publication was not calculated. Study region: Barry, Kent, Montcalm, Muskegon and Ottawa counties. Study published in 2014. Dollars updated from 2014 to 2016. Additional economic impact since study publication was not calculated. Study region: Genesee, Lapeer, Lenawee, Livingston, Macomb, Monroe, Oakland, St. Clair, Washtenaw and Wayne counties. Study published in 2013. Dollars updated from 2013 to 2016. Additional economic impact since study publication was not calculated. Study region: State of Michigan.

Total Economic Impact of Michigan's Aviation System

Prosperity Region	Jobs	Income (\$)	Output (\$)
Detroit - Detroit Metro Wayne County (DTM) ¹	86,308	\$3,226,185,000	\$10,630,255,000
Detroit - Willow Run (WR) ²	950	\$41,372,000	\$126,164,000
Grand Rapids - Gerald R Ford Int'l (GRR) ³	40,582	\$1,537,670,000	\$3,244,928,000
Airport Economic Impact Studies Provided for Airports without CBA Reports ⁴			
11 System Airports with CBA Reports	55,757	\$2,244,280,000	\$7,906,093,000
TOTAL	183,597	\$7,049,507,000	\$21,907,440,000

The system of airports in Michigan has been and continues to be a tremendous asset to local, regional and state economies. To calculate the dollar value of impact, MDOT Office of Aeronautics used their Community Benefits Assessment (CBA) Tool. The CBA tool was first developed in 2003 and has been updated several times since (including as a part of the 2017 MASP) in order to maintain the accuracy of the results. After surveying the 14 Tier 1 and Tier 2 airports in the system on local economic indicators, the data was vetted by MDOT and entered into the CBA tool to calculate the individual impact of the 14 airports. As a whole, Michigan's aviation system produces nearly \$22 Billion in economic impact across the state.

MICHIGAN'S AVIATION SYSTEM

- Tier 1: 86 airports (respond to essential system goals and objectives)
- Tier 2: 28 airports (complement essential system goals and/or respond to local community needs)
- Tier 3: 112 airports (duplicate services provided by Tier 1/Tier 2 airports and/or respond to specific needs of individuals/small businesses)
- Total: 114 airports

