

## **3.0 ACTIVITY PROJECTIONS**

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This chapter presents projections of passenger and aircraft activity used as the basis for the General Mitchell International Airport Master Plan Update. These projections are essential for:

- *Determining the future role of the Airport in both the type of aircraft to be accommodated and the type of aviation demand to be served;*
- *Evaluating the capability of existing Airport facilities and their ability to absorb projected aviation demand; and*
- *Estimating the extent to which airside and landside facilities should be provided at the Airport in future years.*

The development of the projections is discussed in the following sequence:

- *Air Transportation Technology and Trends*
- *Annual Passenger Projections*
- *Annual Cargo Poundage Projections*
- *Annual Operations and Fleet Mix Projections*
- *Peak Hour Projections*

The discussion of air transportation technology and trends describes the aviation environment in which the Airport will operate over the next twenty years. It is presented first because it is against this background that the projections were developed.

### **3.1 AIR TRANSPORTATION TECHNOLOGY AND TRENDS**

In planning for future growth at the Airport it is important to understand the context within which the potential increases in air traffic will occur. Trends in aircraft, airline and airport technology routinely affect how airports deliver services. Perhaps the most significant example of how changes in the environment can impact the delivery of airport services is the evolution of security issues since the institution of security screening in the 1970s. Passengers suddenly had to flow through new single points of

processing to reach the departure gate after arriving at the airport. Security measures after the crash of a TWA flight off the coast of New York expanded to include the requirement for one-on-one identity checking and eliminated the issuance of advanced boarding passes, necessitating further changes in airline and airport procedures. Since September 2001, security measures have become even more stringent, significantly changing how passengers travel by air.

This section discusses some of the changes on the horizon for the next twenty years that may have an impact on how passengers travel through airports and how airlines process these travelers. The section is organized as follows:

- *Future Patterns of Air Services*
- *Nation-wide Projections of Passenger and Cargo Growth*
- *Future Growth of General Aviation*
- *Technological Trends in Aircraft Development*
- *Future Air Traffic Control Technology*
- *Pertinent Airport Facility Trends*

### **3.1.1 *Future Patterns of Air Services***

The profitability of the 1990s in the aviation industry fostered the emergence of a new round of small carriers. These operators are larger than the regional carriers that have been acquired and/or allied with the major carriers, feeding hub systems from small spoke cities. These new carriers, such as AirTran, Spirit, JetBlue, Pan Am are, in some cases, reincarnations of previous carriers, and in some cases, brand new. They tend to operate with the low-fare, no-frills model, and they start out by concentrating on small parts of the country. The degree to which these carriers go head-to-head with major carriers varies, but each is attempting to carve out its own unique sphere. In many cases these carriers are serving smaller cities, carrying connecting traffic through their own mini-hubs or “focus cities.” The advent of these new carriers is expanding service across the country and giving travelers a variety of options for fares, routings and carriers. In many cases these carriers are operating with newer aircraft and are

appealing to masses of travelers seeking low fares. Several of these carriers have fared well in the recent nine-month period following September 2001. Their emergence is an indication that competition in the industry continues.

The industry is still suffering from the after-effects of the September 11 terrorist attacks. This, combined with a weak economy is depressing traffic, even in the face of low fares. Business travelers have started balking at high fares, and are either traveling at discounted fares, or not traveling at all. Major carriers are wrestling with how to restructure their fare systems to attract these lucrative customers while still achieving yields that will assure profitable operations. Meanwhile, those customers who have returned to the skies in the last few months have done so at low fares.

Regional carriers are continuing the transition to jet aircraft, making them an appealing product for the customer, as well as a cost-efficient business component for their major carrier partners/owners. This trend is very evident at an airport like GMIA. Several carriers at the Airport have transitioned almost completely to the regional jets. American Eagle and its fleet of regional jets has completely replaced American at the Airport. Continental Express provides service for Continental with regional jets. USAirways Express provides several frequencies with regional jets in complement to the major partner's jet operations at the Airport. Delta has maintained its level of service in large jet aircraft and also provides service on its Comair and Atlantic Southeast partners.

American Trans Air has converted to regional service using Chicago Express on turboprop aircraft. Skyway (soon to become Midwest Connect) has begun transitioning to a regional jet fleet. It still operates primarily turboprop aircraft, but that will change in the next few years. However, there will always be small markets around Wisconsin and Michigan that will support service only on very small aircraft. Therefore, it is unlikely that the turboprop will disappear from scheduled service at GMIA during the forecast period. Whether it will be Midwest Connect providing the service, or another, smaller operator remains to be seen.

### **3.1.2 *Nation-wide Projections of Passenger and Cargo Growth***

Strong economic growth drove total domestic passenger growth in the United States by 3.4 percent annually 1990 through 2000. In 2001, passenger traffic declined 6.0 percent. The effects of terrorism and the slow economy will depress total domestic traffic growth in the U.S. until 2003, but it is expected to rebound, growing at 3.6 percent annually between 2001 and 2021. Regional carrier activity in the United States has grown at 8.3 percent annually from 1990 through 2000 while the major carriers grew at 2.9 percent per year. Over the 2001 through 2021 forecast period, regional traffic will grow at 5.0 percent per year, while major carrier enplanements will increase 3.4 percent per year. At GMIA, enplanements grew at 3.2 percent annually from 1990 through 2000, slightly below the 3.4 percent U.S. average. Over that time period, there has been a significant shift from service by major carriers to their regional partners at the Airport.

Domestic cargo on U.S. carriers, as measured by revenue ton miles, grew 5.1 percent per year from 1993 through 2000, and fell 10.1 percent in 2001. Domestic volume is expected to increase at 3.8 percent annually from 2001 through 2021. This lower growth expectation is driven somewhat by the increased security regulations governing the carriage of air cargo.

The year 2001 indicated that the aviation industry was beginning to see a turn-around in its strong financial performance, even before the disastrous happenings of September 11. Total traffic was down in the first quarter, and high-yielding business traffic was falling off. The U.S. and world economic activity slowed in 2001, and aviation suffered accordingly. The outlook is that a rebound will begin in 2003 or 2004.

### **3.1.3 *Future Growth of General Aviation***

General aviation has made an extraordinary recovery from its severely depressed state in the early 1990s. Substantial increases in liability costs due to incidents involving aging general aviation aircraft had virtually halted aircraft production. Following the passage of the General Aviation Revitalization Act in 1994, all measures of general aviation activity have increased. According to the FAA, shipments of general aviation aircraft increased from a low of 928 units in 1994 to 2,220 units in 1998, an average annual growth of over 24 percent.

Programs by all segments of the industry are aimed at continuing healthy growth in activity. Manufacturers such as Cessna, Raytheon, Mooney and Piper are introducing new models of general aviation aircraft. Boeing, Airbus, and Fairchild are all marketing business jets. The FAA is promoting safety in general aviation in a variety of areas. Industry and government groups are joining efforts to improve technology in safety, engine reliability and efficiency, dissemination of weather information and navigational improvements.

The concept of “fractional ownership” of business jet aircraft is also expanding that segment of general aviation activity. Fractional ownership allows a corporation or individual to own an interest in an aircraft in a time-share situation. None of the fractional owners is required to provide pilots, maintenance or scheduling of the aircraft. Each fractional owner is entitled to a portion of the aircraft’s time. This allows for use of a business jet without the need for a flight department in a corporation, and without the hassles of ownership for an individual. This concept could increase the use of corporate jets in the future. There is still some debate in the industry as to whether these operations should occur under Federal Aviation Regulation (FAR) Part 91, as they currently do, or under the more demanding FAR Part 135. Upgrading the regulatory classification to FAR Part 135 may dampen the growth of this activity.

Increases in fuel costs and the struggling economy caused a decline in aviation activity in the last two years. Restrictions after September 11 negatively impacted general aviation activity even further. From 1990 through 2000 general aviation activity in the United States grew at an annual rate of 2.4 percent. In

2001 there was a 6.4 percent decline in activity. Nationally, it is expected that general aviation operations will increase at an average annual rate of 1.5 percent 2001 through 2021. General aviation operations at GMIA declined fairly steadily over 1990 through 2001 period, trending downward at an average of 4.9 percent annually. General aviation operations at GMIA declined 13 percent in 2001.

### ***3.1.4 Technological Trends in Aircraft Development***

Among the most significant changes in recent years in aircraft development in commercial service in the United States is the emergence and growing role of regional jets. Coupled with partnerships between major and regional carriers the growing use of regional jets, has significantly restructured the route systems of both types of carriers. Regional jets allow longer-range capability, a higher degree of passenger comfort, and a perception of increased safety on the part of travelers relative to non-jet aircraft previously flown by commuters. The regional jet has freed up capacity for the majors, better rationalized fleet mix to market demand, and helped to increase load factors across the domestic system. According to Boeing's Current Market Outlook, the number of these jets in service is projected to grow almost 9 percent annually worldwide over the next twenty years. This is approximately twice the growth rate expected for all commercial passenger aircraft.

Over the forecast period, demand for large, long-range aircraft like the 747 is expected to decline as airlines choose to take advantage of the operational efficiencies offered by intermediate-sized, usually two-engine, newer aircraft. This aircraft type, such as the 757, 767 and Airbus 319/320 has the range to serve U.S. transcontinental markets and many international markets. In addition to the fuel efficiencies of only two engines, these aircraft require a cockpit crew of only two, further contributing to improved operating economics. Also, new versions of aircraft such as the 737 and A318, with seating in the 120-175 seat range, have provided major carriers with the option to economically offer high frequency, which has stimulated additional traffic in the past decade.

### **3.1.5 Future Air Traffic Control Technology**

The FAA has initiated several major programs over the last several years aimed at near-, intermediate- and long-term solutions to increasing congestion and delays. Chief among these programs is the Free Flight Program. This program allows pilots and controllers to work together to manage air traffic more efficiently. It will allow pilots in the future to fly the most direct, cost-effective routes, reducing costs and delays. Some of the developments on-going in the FAA to support Free Flight are:

- *Enhanced Traffic Management System.* This system provides data on National Airspace System (NAS) facilities, airspace structures, airport differences and aircraft distances. It enables traffic management specialists to regulate the flow of air traffic to minimize delays and congestion while maximizing the use of the NAS.
- *Departure Spacing Program.* This program assists air traffic controllers in sequencing departure times for a runway, sequencing departures across departure coordinates, and coordinating arrivals and departures when a common runway is in use. It also provides departure predictions to the traffic management system for use in predicting resource demand.
- *Host Oceanic Computer System Replacement.* This enroute center automation system is the foundation of the FAA's Automated Air Traffic Control environment. It receives, processes, coordinates, distributes and tracks information on aircraft movements throughout the NAS.
- *Weather Assistance Radar Program.* This program is intended to provide next generation weather radar information to air traffic controllers.

In addition to these programs, the FAA is working with the commercial aviation industry on a regular basis to address issues such as delays during peak summer activity periods and during periods of severe weather in large areas of the country.

There has been talk in the industry over the last several years about the potential benefits of privatizing the operation of the nation's airspace. However, at this time there are no signs that indicate a move towards that direction.

### **3.1.6 Pertinent Airport Facility Trends**

Airport facility requirements will be affected by many of the changes discussed above. Additionally, facility requirements at airports today are significantly affected by increasing security provisions, rapid growth in regional jet activity, and improved technologies.

New security provisions are revolutionizing the way which facility requirements are determined. Security requirements will affect all aspects of airport passenger and cargo handling and processing.

Increased service by regional carriers may require different types of ramp and connecting capabilities. As regional equipment evolves, and the desire by carriers to provide a "seamless" travel experience increases, ground-level boarding and unloading of passengers from the ramp become less desirable. The increasing predominance of airline alliances, which can be redefined frequently, may require increased flexibility in the location of carriers at an airport. When an alliance is formed, the involved carriers desire proximate, if not adjacent, ticketing/gating/baggage operations, club facilities, office space, etc. This will increase the need for flexibility in airport signage, assignment of space to carriers by airport management, and lease agreements between airports and carriers.

At large hubs and airports where heavy international traffic continues to grow, there may be an increased demand by air carriers to use technology to help manage their operations and facilitate the flow of customers from curb to plane. Technology such as the following may be considered in order to better manage airport staffing and improve the passenger's experience:



- *Passive video displays or interactive kiosk set-ups for improved communication with passengers regarding flight status, stand-by list status, weather and flight alternatives.*
- *Increased automated check-in capability in the ticket counter area, gate area, and parking lots; and*
- *Automatic recording of passenger information such as: arrivals at the ticket counter; service times at counters, gates and checkpoints; and overall throughput time of outbound passengers.*

## **3.2 ANNUAL PASSENGER PROJECTIONS**

The Master Plan Update Study's projections for the Airport were developed for the years 2006, 2011 and 2021. The base year for passenger volume projections is 2001. For peaking analysis and 24-hour daily schedule development, 2002 data were used. The actual schedule for 2002 was adjusted to represent the most current pattern and distribution of activity. The primary source of data was from GMIA staff and records. Other sources used were Official Airline Guide (OAG) schedule data, U.S. Department of Transportation (DOT) data on origin/destination traffic and activity by carrier, Federal Aviation Administration annual forecasts, and Woods & Poole Economics data on historical and forecast county level socio-economic parameters.

This section is organized as follows:

- *Passenger Projection Methodology*
- *Passenger Projections*
- *O&D Domestic Passenger Market Analysis*
- *Summary of Passenger Projections*

### **3.2.1 Passenger Projection Methodology**

General Mitchell International Airport draws passengers from the greater Milwaukee area, southeastern Wisconsin, and several counties in northern Illinois that are situated as near to GMIA as they are to Chicago O'Hare Airport.

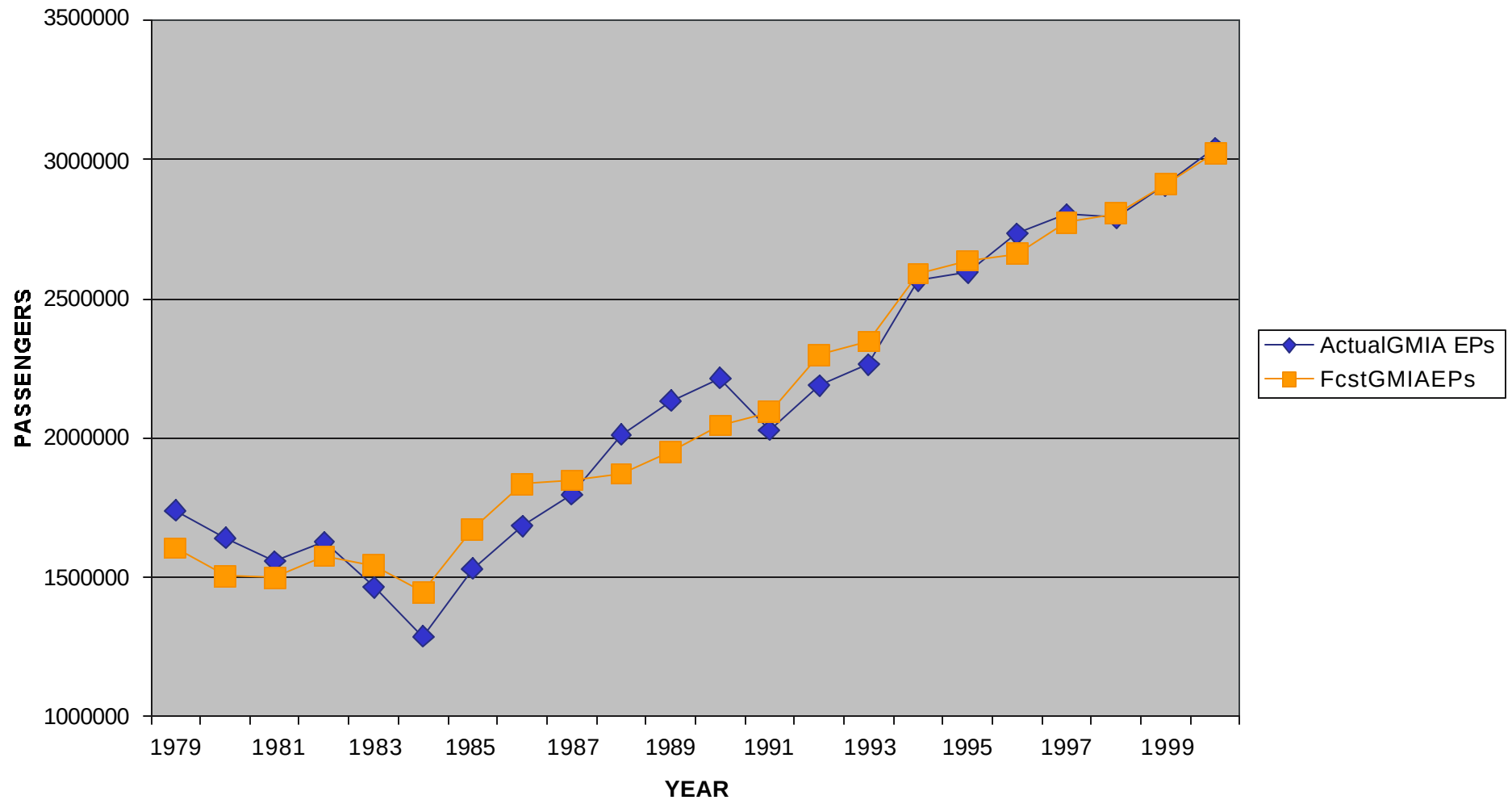
Historical activity at the Airport from 1979 through 2000 served as the basis for projecting passenger traffic through 2021. 2001 data were not included because of the distortions caused by the events of September 11. Adjustments were made later in the forecasting process to account for those changes. Projections were made using regression analysis relating the volume of travel at the Airport to socioeconomic factors in the surrounding region and the cost of air travel at GMIA. In formulating the relationships among these factors, several different measures were used to represent the demand for air travel, the cost of air travel, and the socio-economic activity in the surrounding area.

Air travel demand was represented as total enplaned passengers, and as origin/destination (O&D) passengers. The cost of air travel was represented by airline yield at the Airport. Airline yield is the revenue collected by the airline for carrying one paying passenger one mile. Variables were also included in the analysis to reflect the start-up of service by Midwest Express in 1984, and to account for the impact of the Gulf War.

The socioeconomic factors that were analyzed included population, personal income, per capita income, and employment. The counties analyzed for inclusion in the analysis included the seven counties comprising the area covered by the Southeastern Wisconsin Regional Planning Commission (Kenosha, Milwaukee, Ozaukee, Racine, Walworth, Washington and Waukesha), and three neighboring counties in Illinois (Lake, McHenry and Winnebago).

In developing the statistical relationships among these variables, both linear and logarithmic formulations were considered. Linear formulations imply that the absolute growth in traffic is related to the absolute growth in the other variables. Logarithmic formulations imply that the rates of traffic growth are related to the rates of growth in the other variables.

The equation chosen was selected for its statistical goodness of fit to the historical data, and for its reasonableness in the implied relationships. This goodness to fit is graphically presented in **Exhibit 3.2-1**. This exhibit displays the



close agreement between the actual history, and the passenger traffic predicted for the 1979 through 2000 time period by the chosen equation. The equation and its statistics are as follows:

$$\begin{aligned} \text{LN (GMIA Enplaned Passengers)} = & \\ - & 2.450 \\ + & 2.347 * \text{LN (10-County Population)} \\ - & 0.536 * \text{LN (GMIA Airport Yield)} \end{aligned}$$

R-Squared = .945

F Statistic = 162.25

T Statistics:

Population= 5.05

GMIA Yield = -3.35

The positive coefficient of the population variable indicates that Airport traffic increases as the 10-county area's population increases. The negative coefficient for yield indicates that increasing yields at GMIA exert a downward pressure on enplanements, while declining yields exert an increasing pressure on traffic.

Use of this equation without adjustment would have implied that traffic would have continued to grow as population was growing without considering the impacts of the terrorist attacks. Therefore, the forecast of enplanements derived from this formula was adjusted to compensate for this event. Enplanements in 2001 were down 7.5 percent below 2000. Given the state of the economy after September 11, it is assumed that aviation activity will not resume its normal growth until 2003 or 2004. GMIA's 2002 through 2004 traffic was assumed to decline and rebound in the same fashion forecast for the United States as a whole. After 2004, traffic was grown at a rate equivalent to that embodied in the regression analysis.

This preliminary forecast was then adjusted to account for two developments that were not included in historical activity at GMIA; initiation of service by low-fare carrier AirTran, and the expectation that the increased growth of Midwest Express and Skyway will result in an increase in connecting percentages at GMIA.

### **3.2.2 Passenger Projections**

Over the last ten years, passenger activity at GMIA has grown at an average annual rate of 3.3 percent, compared with 3.5 percent for the nation as a whole. Historical data for passenger activity at the Airport is presented in **Table 3.2-1**. The history and forecast are presented graphically in **Exhibit 3.2-2**. Immediately after deregulation in 1978, GMIA traffic declined. It rebounded significantly when Midwest Express began service in June of 1984. From 1984 through 2001 traffic grew at an average annual growth rate of 4.7 percent, largely on the basis of Midwest activity. Over that same period traffic in the U.S grew just under 3 percent annually.

#### **3.2.2.1 Major Carriers**

Major carrier enplanements actually declined from 1996 through 2001 as carriers shifted to providing service to Milwaukee using commuter partners. From 1996 through 2001 major carrier traffic declined 1.8 percent per year. Among the shifts that have occurred are:

- *American to American Eagle*
- *Continental to Continental Express*
- *American Trans Air to Chicago Express*
- *United to United Express*

AirTran initiated service in June 2002 with non-stop service to Atlanta and Orlando. Tampa non-stop service was initiated in fall of 2002. The carrier expects to add service to Fort Lauderdale February of 2003, and to increase service moderately throughout the forecast period after that. The level of traffic expected for the AirTran start-up is consistent with air service studies previously done for the Airport estimating the impact of potential new service by AirTran.

Midwest Express plans to increase connecting traffic at GMIA over the forecast period. Currently, Midwest connects approximately 20

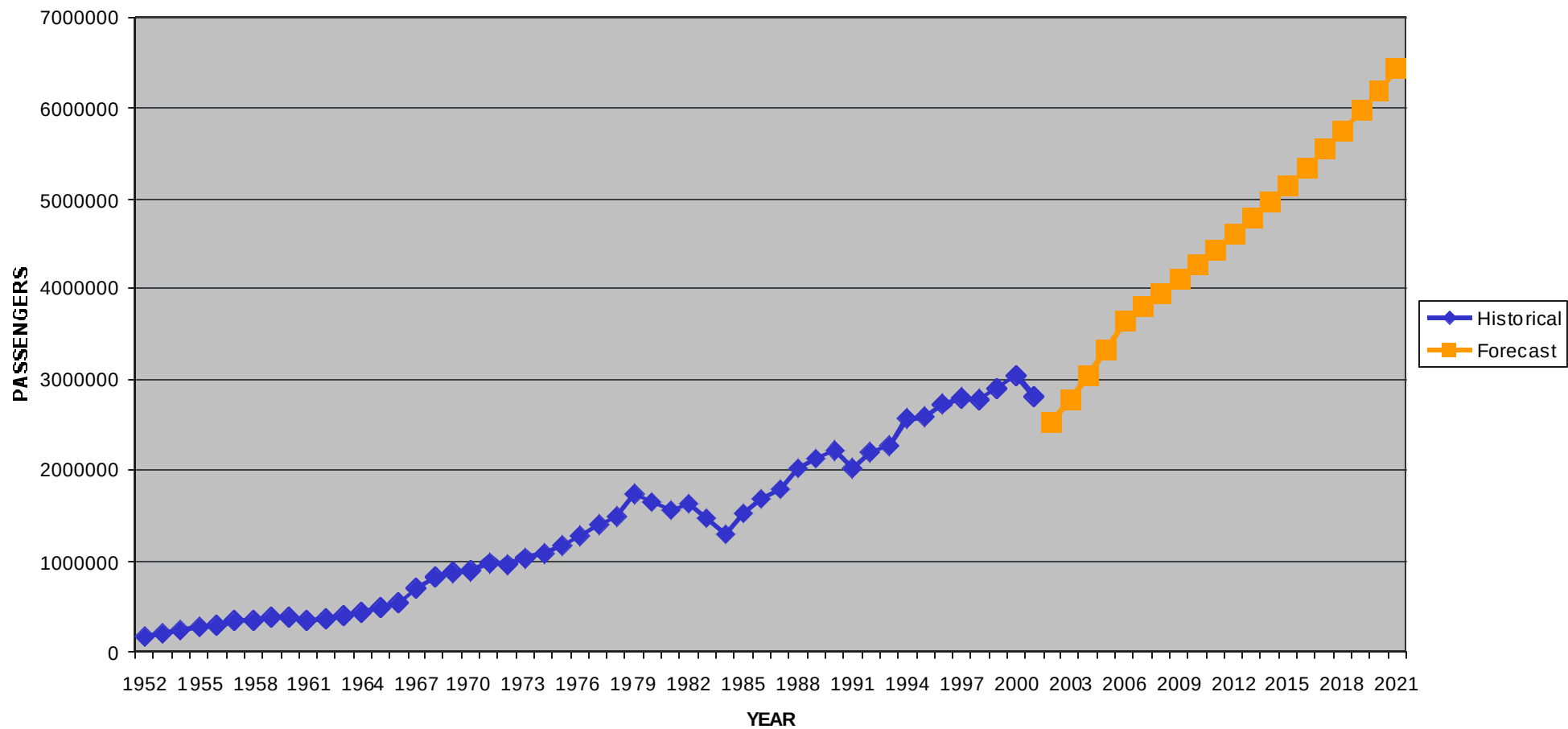
**TABLE 3.2-1**

**General Mitchell International Airport**

**PASSENGER ACTIVITY**

| <u>Year</u>                                                                                                | <u>Total Enplanements</u> | <u>Majors</u> | <u>Commuters</u> | <u>Charter*</u> | <u>Connections Included</u> | <u>Connecting %</u> |
|------------------------------------------------------------------------------------------------------------|---------------------------|---------------|------------------|-----------------|-----------------------------|---------------------|
| 1979                                                                                                       | 1,740,282                 |               |                  |                 |                             |                     |
| 1980                                                                                                       | 1,642,532                 |               |                  |                 |                             |                     |
| 1981                                                                                                       | 1,558,549                 |               |                  |                 |                             |                     |
| 1982                                                                                                       | 1,627,335                 |               |                  |                 |                             |                     |
| 1983                                                                                                       | 1,463,227                 |               |                  |                 |                             |                     |
| 1984                                                                                                       | 1,287,663                 |               |                  |                 |                             |                     |
| 1985                                                                                                       | 1,530,169                 |               |                  |                 |                             |                     |
| 1986                                                                                                       | 1,682,739                 |               |                  |                 |                             |                     |
| 1987                                                                                                       | 1,798,679                 |               |                  |                 |                             |                     |
| 1988                                                                                                       | 2,012,727                 |               |                  |                 |                             |                     |
| 1989                                                                                                       | 2,132,541                 |               |                  |                 |                             |                     |
| 1990                                                                                                       | 2,213,672                 |               |                  |                 |                             |                     |
| 1991                                                                                                       | 2,027,689                 |               |                  |                 |                             |                     |
| 1992                                                                                                       | 2,189,052                 |               |                  |                 |                             |                     |
| 1993                                                                                                       | 2,264,402                 |               |                  |                 |                             |                     |
| 1994                                                                                                       | 2,563,293                 |               |                  |                 |                             |                     |
| 1995                                                                                                       | 2,593,359                 |               |                  |                 |                             |                     |
| 1996                                                                                                       | 2,732,965                 | 2,234,052     | 494,222          | 4,691           | 206,693                     | 7.6%                |
| 1997                                                                                                       | 2,804,596                 | 2,232,808     | 561,616          | 10,162          | 199,869                     | 7.1%                |
| 1998                                                                                                       | 2,790,837                 | 2,147,859     | 636,705          | 6,273           | 204,185                     | 7.3%                |
| 1999                                                                                                       | 2,906,189                 | 2,251,887     | 644,199          | 10,103          | 221,291                     | 7.6%                |
| 2000                                                                                                       | 3,039,962                 | 2,327,560     | 708,415          | 3,987           | 234,518                     | 7.7%                |
| 2001                                                                                                       | 2,811,954                 | 2,041,492     | 735,082          | 35,380          | 269,823                     | 9.6%                |
| <b><u>Forecasts</u></b>                                                                                    |                           |               |                  |                 |                             |                     |
| 2006                                                                                                       | 3,658,480                 | 2,530,543     | 1,079,362        | 48,576          | 353,585                     | 9.7%                |
| 2011                                                                                                       | 4,434,172                 | 3,064,365     | 1,313,299        | 56,508          | 534,533                     | 12.1%               |
| 2021                                                                                                       | 6,427,713                 | 4,421,221     | 1,931,108        | 75,385          | 1,011,481                   | 15.7%               |
| <b><u>Average Annual Growth Rates</u></b>                                                                  |                           |               |                  |                 |                             |                     |
| 1979-1984                                                                                                  | (5.8)%                    |               |                  |                 |                             |                     |
| 1984-2001                                                                                                  | 4.7%                      |               |                  |                 |                             |                     |
| 1996-2001                                                                                                  |                           | (1.8)%        | 8.3%             | 49.8%           | 5.5%                        |                     |
| 1979-2001                                                                                                  | 2.2%                      |               |                  |                 |                             |                     |
| 2001-2006                                                                                                  | 5.4%                      | 4.4%          | 8.0%             | 6.5%            | 5.6%                        |                     |
| 2006-2011                                                                                                  | 3.9%                      | 3.9%          | 4.0%             | 3.1%            | 8.6%                        |                     |
| 2011-2021                                                                                                  | 3.8%                      | 3.7%          | 3.9%             | 2.9%            | 6.6%                        |                     |
| 2001-2021                                                                                                  | 4.2%                      | 3.9%          | 4.9%             | 3.9%            | 6.8%                        |                     |
| * Charter activity not occurring on scheduled carriers such as American Trans Air, Sun Country, or majors. |                           |               |                  |                 |                             |                     |

Source: General Mitchell International Airport  
PB Aviation Inc. Analysis



percent of its enplanements at the Airport. The carrier anticipates this connecting percentage growing to 40 percent by 2021.

### **3.2.2.2 Regional Carriers**

The growth in regional passengers has been driven by the shifts in service mentioned above, as well as the strong growth of Skyway (soon to become Midwest Connect). Skyway has grown over 12 percent annually in the last five years at GMIA, its market share increasing from 5.3 percent to 9.2 percent over that time. As it transitions its fleet from 19-seat turboprop aircraft to regional jets with 32-50 seats, its strong growth will continue. Over time, Skyway's fleet will be totally regional jet aircraft. However, there will always be small markets in Wisconsin and Michigan that will be fed into Midwest Express' system at GMIA, that will support only a 19-seat type of plane. While it is uncertain exactly who the operator will be, such service will continue to be present at GMIA. It may be operated under contract to Midway Express or Skyway, or it may be an independent operator. Regardless of the specific name of the carrier operating it, Midway Express feels that it will still provide feed to its system at GMIA.

The share of passenger traffic carried by regionals at GMIA has been, and is projected to be, as follows:

- 1996 18.1 percent
- 2001 26.1 percent
- 2006 29.5 percent
- 2011 29.6 percent
- 2021 30.0 percent

### **3.2.2.3 Charter Carriers**

Charter activity at GMIA is operated by carriers under contract to tour operators. The specific carriers fluctuate over time as contracts



change. Carriers such as American Trans Air and Sun Country have operated both scheduled and charter activity at the Airport over the past several years. Occasionally some of the major carriers will fly unscheduled operations. The service tends to be seasonal, and to vacation destinations such as Las Vegas, Caribbean and Mexican resort areas.

Discussions with operators of these services have resulted in the projections in Table 3.2.1. Traffic volume on charter activities is expected to grow at 3.9 percent per year over the forecast period, which is similar to the growth expected from major carriers at the Airport.

### **3.2.3 O&D Domestic Passenger Market**

The top 30 Origin/Destination (O&D) markets for GMI are presented in **Table 3.2-2**. O&D passengers as recorded by the U.S. DOT are listed for 1979, 1990, 1995 2000 and 2001 for each of these markets. The cities are listed in order of 2001 passenger volume.

Those cities currently receiving non-stop service are marked with an asterisk (\*). Those whose non-stop service is seasonal are noted with an “S”. Twenty-three of the top markets have non-stop service; three more of the markets have non-stop service on a seasonal basis only. There are four markets that had no non-stop service in 2001.

AirTran initiated non-stop service to Tampa in the fall of 2002. Fort Lauderdale service will start in February, 2003. Miami and Fort Myers are also on AirTran’s system, and may ultimately receive non-stop service from that carrier. However, there is no announced plan to do so now.

| TABLE 3.2-2                            |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
|----------------------------------------|----------------------|--------------------------------------------------------------|---------|---------|---------|---------|-----------|-----------|------|------|------|-------|
| General Mitchell International Airport |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| ORIGIN / DESTINATION CITY ANALYSIS     |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| Estimated Potential                    |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| One-Way Passengers per Day             |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| Average Annual Growth (%)              |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| Total Origin / Destination Passengers  |                      |                                                              |         |         |         |         |           |           |      |      |      |       |
| 2001 Rank                              |                      | 1979                                                         | 1990    | 1995    | 2000    | 2001    | 1990-1995 | 1995-2001 | 2001 | 2006 | 2011 | 2021  |
| 1                                      | Las Vegas            | *                                                            | 41,490  | 78,730  | 141,230 | 341,350 | 12.4      | 14.1      | 439  | 571  | 692  | 1,003 |
| 2                                      | Orlando              | *                                                            | 44,880  | 144,290 | 269,630 | 332,790 | 13.3      | 1.4       | 412  | 535  | 649  | 941   |
| 3                                      | Minneapolis/St. Paul | *                                                            | 105,640 | 141,690 | 184,910 | 261,820 | 5.5       | 2.8       | 306  | 398  | 482  | 699   |
| 4                                      | Phoenix              | *                                                            | 10,630  | 85,340  | 179,990 | 185,840 | 16.1      | 1.6       | 279  | 362  | 439  | 637   |
| 5                                      | Los Angeles          | *                                                            | 100,990 | 141,870 | 137,410 | 180,470 | (0.6)     | 4.2       | 246  | 321  | 389  | 563   |
| 6                                      | LaGuardia            | *                                                            | 131,210 | 162,000 | 148,220 | 172,130 | (1.8)     | 1.1       | 222  | 289  | 350  | 508   |
| 7                                      | Atlanta              | *                                                            | 49,820  | 93,730  | 116,360 | 149,540 | 4.4       | 3.7       | 203  | 264  | 320  | 464   |
| 8                                      | Dallas/Fort Worth    | *                                                            | 44,880  | 83,370  | 111,450 | 146,500 | 6.0       | 2.3       | 180  | 234  | 283  | 411   |
| 9                                      | Denver               | *                                                            | 63,140  | 91,880  | 113,850 | 131,720 | 4.4       | 1.8       | 178  | 232  | 281  | 407   |
| 10                                     | San Francisco        | S                                                            | 61,830  | 95,610  | 111,470 | 172,350 | 3.1       | 1.8       | 175  | 227  | 275  | 399   |
| 11                                     | Boston               | *                                                            | 51,930  | 94,140  | 139,490 | 131,650 | 8.2       | (2.1)     | 172  | 224  | 272  | 394   |
| 12                                     | Ronald Regan N'tl    | *                                                            | 57,790  | 95,430  | 110,580 | 139,370 | 3.0       | 0.5       | 160  | 208  | 252  | 365   |
| 13                                     | Newark               | *                                                            | 21,550  | 85,940  | 99,910  | 123,200 | 3.1       | 2.0       | 158  | 206  | 249  | 361   |
| 14                                     | Philadelphia         | *                                                            | 37,660  | 75,940  | 91,030  | 117,030 | 3.7       | 2.7       | 150  | 195  | 236  | 342   |
| 15                                     | Tampa                | S                                                            | 61,060  | 105,930 | 107,290 | 120,410 | 0.3       | (1.7)     | 136  | 177  | 214  | 311   |
| 16                                     | Detroit              | *                                                            | 94,030  | 92,600  | 102,740 | 168,120 | 2.1       | (1.8)     | 130  | 169  | 204  | 296   |
| 17                                     | Ft Myers             | S                                                            | 0       | 54,280  | 121,930 | 99,360  | 17.6      | (5.1)     | 125  | 162  | 197  | 285   |
| 18                                     | Kansas City          | *                                                            | 41,690  | 12,360  | 96,190  | 77,790  | 50.7      | (4.3)     | 104  | 135  | 164  | 238   |
| 19                                     | Seattle              |                                                              | 20,230  | 40,740  | 61,110  | 82,780  | 8.4       | 2.8       | 101  | 132  | 160  | 231   |
| 20                                     | Cleveland            | *                                                            | 56,290  | 56,940  | 92,980  | 79,820  | 10.3      | (5.7)     | 92   | 119  | 144  | 209   |
| 21                                     | Fort Lauderdale      |                                                              | 23,570  | 44,970  | 80,760  | 66,930  | 12.4      | (3.7)     | 91   | 118  | 143  | 207   |
| 22                                     | San Diego            |                                                              | 17,000  | 49,720  | 69,270  | 58,290  | 6.9       | (4.2)     | 75   | 98   | 119  | 172   |
| 23                                     | Cincinnati           | *                                                            | 15,160  | 19,880  | 59,670  | 58,980  | 24.6      | (3.5)     | 68   | 88   | 107  | 155   |
| 24                                     | St. Louis            | *                                                            | 52,780  | 40,930  | 73,110  | 60,170  | 12.3      | (6.8)     | 67   | 88   | 106  | 154   |
| 25                                     | Miami                |                                                              | 42,210  | 56,060  | 60,520  | 63,720  | 1.5       | (4.9)     | 63   | 82   | 99   | 144   |
| 26                                     | Pittsburgh           | *                                                            | 29,750  | 36,860  | 44,870  | 51,110  | 4.0       | (0.4)     | 61   | 80   | 97   | 140   |
| 27                                     | Charlotte            | *                                                            | 5,470   | 25,340  | 39,250  | 49,400  | 9.1       | 1.7       | 61   | 79   | 96   | 140   |
| 28                                     | Hartford             | *                                                            | 12,830  | 25,180  | 28,310  | 48,100  | 2.4       | 7.4       | 61   | 79   | 96   | 139   |
| 29                                     | Houston              | *                                                            | 18,490  | 16,170  | 26,620  | 43,030  | 10.5      | 7.4       | 57   | 74   | 90   | 131   |
| 30                                     | Columbus             | *                                                            | 16,550  | 22,060  | 51,420  | 47,750  | 18.4      | (4.2)     | 56   | 73   | 88   | 127   |
| Top 30 Markets % of Total              |                      | 67.9%                                                        | 68.5%   | 68.9%   | 73.1%   | 72.2%   |           |           |      |      |      |       |
| * Indicates non-stop service           |                      | Bold indicates level of activity to support non-stop service |         |         |         |         |           |           |      |      |      |       |
| S Indicates seasonal non-stop service  |                      |                                                              |         |         |         |         |           |           |      |      |      |       |

Source: USDOT O&D Survey

PB Aviation, Inc. Analysis

Seattle is the largest O&D market with no non-stop service. If Seattle were to grow at the average rate embodied in the passenger forecast, it would reach a level where it might support non-stop service by 2011. This assumes two daily departures on 100-seat aircraft, with a 70 percent load factor, or 140 departing passengers per day. Of course there would be the potential for connections adding to this total. On the other hand, this estimate would be offset by the fact that not all of the passengers in a market are likely to be captured by a single carrier.

San Francisco, with seasonal non-stop service, showed strong growth in 2000, but declined in traffic in 2001. Growing at the average rate embodied in the

forecast, this market would average 227 departing passengers per day by 2006. This market appears to be able to support year-round daily non-stop service. Several of the carriers at GMIA serve San Francisco via a hub connection, so there is strong competition in this market, even with no non-stop service. Some carriers feel that this competition via hubs would allow carriers to reduce fares in the Milwaukee to San Francisco market to compete with any year-round non-stop service. This fear of cutthroat fare competition is deterring some carriers from providing this non-stop service.

San Diego, the smallest market in the top 30 without non-stop service, might grow to support non-stop service by the end of the forecast period.

Non-stop service at GMIA from 1997 to 2002 is presented in **Table 3.2-3**. There are 50 markets with non-stop service as of April 2002:

- *32 markets are served by only Midwest and/or Skyway (20 by Skyway alone)*
- *13 are served by multiple carriers*

**Table 3.2-4** presents the characteristics of some of this service. The cities are listed alphabetically. (Because Skyway reports its statistics to the U.S.DOT under as a 298 C carrier rather than T-100, the detailed statistics are not available for Skyway.) For each carrier in each market (except Skyway), annual departures, seats and load factors are recorded for 1997 and 2000. (AirTran, which recently initiated service at GMIA, is not included in this data.)

Service at GMIA has been fairly consistent in these markets in that carriers have not dropped service to any of these to markets over this period. Some markets have seen a transition from the larger carrier to a regional partner, but the service in the markets has remained. Stability of service contributes to customer loyalty over time, possibly deterring passengers from traveling from Milwaukee to Chicago to fly.

TABLE 3.2-3

## General Mitchell International Airport

## MARKETS SERVED NON-STOP

|                  | 1997 |     |     | 1998 |     |     | 1999 |     |     | 2000 |     |     | 2001 |     |     | 2002 |     |       | 2001<br>O&D Rank |
|------------------|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-------|------------------|
| Appleton         | ZW   | YX  | YX* | ZW   | YX  | YX* | ZW   | YX  | YX* | ZW   | YX  | YX* | ZW   | YX  | YX* | YX   | YX* |       |                  |
| Atlanta          | DL   | YX  |     | DL   | YX  |     | DL   | YX  |     | DL   | YX  |     | DL   | YX  | EV  | DL   | YX  | EV FL | 7                |
| Baltimore        |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     | YX*  |     |       | 44               |
| Boston           | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |       | 11               |
| Cedar Rapids     |      |     |     |      |     |     |      |     |     | YX*  |     |     |      |     |     |      |     |       |                  |
| Charlotte        | US   |     |     | US   |     |     | US   |     |     | US   |     |     | US   |     |     | US   |     |       | 28               |
| Chicago MDW      | TZ   |     |     | TZ   |     |     | TZ   |     |     | TZ   |     |     | TZ*  |     |     | TZ*  |     |       |                  |
| Chicago ORD      | ZW   | AA* | UA  | ZW   | AA* | UA  | ZW   | AA* | UA  | ZW   | AA* | UA  | ZW   | AA* | UA  | ZW   | AA* |       | 75               |
| Cincinnati       | DL   | YX* |     | DL   | YX* |     | DL   | YX* |     | DL   | OH  | YX* | DL   | OH  | YX* | DL   | OH  | YX*   | 23               |
| Cleveland        | YX   | CO* | YX* | YX   | CO* | YX* | YX   | CO* | YX* | YX   | CO* | YX* | YX   | CO* | YX* | YX*  | CO* |       | 21               |
| Columbus         | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX*  |     |       | 29               |
| Dallas/Ft. Worth | YX   |     |     | YX   |     |     | YX   |     |     | YX   | AA* |     | YX   | AA* |     | YX   | AA* |       | 9                |
| Dayton           |      |     |     |      |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Denver           | ZW   | YX  |     | ZW   | YX  |     | ZW   | YX  |     | ZW   | YX  |     | ZW   | YX  |     | ZW   | YX  |       | 8                |
| Des Moines       | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX   | YX* |     | YX*  |     |     | YX*  |     |       | 62               |
| Detroit City     | P9   |     |     | P9   |     |     |      |     |     |      |     |     |      |     |     |      |     |       |                  |
| Detroit Metro    | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |       | 16               |
| Escanaba         |      |     |     |      |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Flint            | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 41               |
| Fort Wayne       |      |     |     |      |     |     |      |     |     | YX*  |     |     |      |     |     |      |     |       |                  |
| Ft Meyers        |      |     |     | TZ   |     |     | TZ   |     |     | SY   |     |     | SY   |     |     | YX   |     |       | 17               |
| Grand Rapids     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 42               |
| Green Bay        | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Hartford         |      |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   | YX* |     | YX   | YX* |       | 27               |
| Houston IAH      | CO   |     |     | CO   |     |     | CO   |     |     | CO   | CO* |     | CO   | CO* |     | CO*  |     |       | 30               |
| Indianapolis     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 36               |
| Kansas City      | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |       | 19               |
| La Crosse        | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| LaGuardia        | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |       | 6                |
| Lansing          | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 84               |
| Las Vegas        | HP   |     |     | HP   | YX  |     | HP   | YX  | SY  | HP   | YX  | SY  | HP   | YX  | SY  | YX*  |     |       | 1                |
| Los Angeles      | YX   |     |     | YX   |     |     | YX   | SY  |     | YX   |     |     | YX   |     |     | YX   |     |       | 5                |
| Louisville       | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 60               |
| Madison          | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   | YX* |       |                  |
| Marquette        | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Memphis          | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |     | NW   |     |       | 43               |
| Minneapolis      | YX   | NW  |     | YX   | NW  |     | YX   | NW  | SY  | YX   | NW  | SY  | YX   | NW  | SY  | NW   | YX* |       | 3                |
| Moline, IL       |      |     |     |      |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Muskegon         | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |
| Nashville        | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       | 35               |
| Newark           | YX   | CO* |     | YX   | CO* |     | YX   | CO* |     | YX   | CO* |     | YX   | CO* |     | YX*  | CO* |       | 13               |
| Omaha            | YX   | YX* |     | YX   | YX* |     | YX   | YX* |     | YX   |     |     | YX   |     |     | YX   |     |       | 39               |
| Orlando          | YX   |     |     | YX   |     |     | YX   | SY  |     | YX   | SY  |     | YX   | SY  |     | YX   | FL  |       | 2                |
| Philadelphia     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | US*  | YX* | YX    | 14               |
| Phoenix          | YX   | HP  |     | YX   | HP  |     | YX   | HP  |     | YX   | HP  |     | YX   | HP  |     | YX   | HP  |       | 4                |
| Pittsburgh       | US   |     |     | US   |     |     | US   |     |     | US   | YX* |     | US   | YX* |     | US   | YX* |       | 26               |
| Raleigh/Durham   | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX*  |     |       | 32               |
| San Francisco    | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     |      |     |       | 10               |
| South Bend       | YX*  |     |     | YX*  |     |     |      |     |     |      |     |     |      |     |     |      |     |       |                  |
| St Petersburg    | TZ   |     |     | TZ   |     |     | TZ   |     |     |      |     |     |      |     |     |      |     |       |                  |
| St. Louis        | TW   | YX* |     | TW   | N9N | YX* | TW   | YX* |     | TW   | YX* |     | TW   | YX* |     | AA*  | YX* |       | 25               |
| Tampa            |      |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |       | 15               |
| Toronto          |      |     |     |      |     |     |      |     |     | YX*  |     |     | YX*  |     |     | AC   | YX* |       |                  |
| Traverse City    |      |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     |      |     |       |                  |
| Washington DCA   | YX   |     |     | YX   |     |     | YX   |     |     | YX   |     |     | YX   | YX* |     | YX   |     |       | 12               |
| Washington IAD   |      |     |     |      |     |     | YX   | US  |     | YX   | US  |     | YX   | YX* |     | YX*  |     |       | 37               |
| Wausau           | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |     | YX*  |     |       |                  |

Source: General Mitchell International Airport Data  
PB Aviation, Inc. Analysis

## Legend:

AA\* - American Eagle  
AC - Air Canada  
CO - Continental  
CO\* - Continental Express  
DL - Delta

HP - America West  
NW - Northwest  
N9N - Trans States Airlines  
OH - Comair  
P9 - Pro Air

TZ - ATA Connection  
UA - United  
US - US Airways  
US\* - US Airways Express  
YX - Midwest Express

TABLE 3.2-4

## General Mitchell International Airport

## AIR SERVICE CHARACTERISTICS

| Destination      | Year | Midwest Express    |         |             | Air Wisconsin                     |         |             | Skyway             |         |             |
|------------------|------|--------------------|---------|-------------|-----------------------------------|---------|-------------|--------------------|---------|-------------|
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor | Departures         | Seats   | Load Factor |
| Appleton         | 1997 | 608                | 32,210  | 35.8%       | 359                               | 32,210  | 13.2%       |                    |         |             |
|                  | 2001 | 505                | 52,708  | 43.8%       | 654                               | 52,708  | 18.0%       |                    |         |             |
| Destination      | Year | Midwest Express    |         |             | Delta                             |         |             | Atlantic Southeast |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor | Departures         | Seats   | Load Factor |
| Atlanta          | 1997 | 848                | 65,216  | 61.3%       | 1,086                             | 154,218 | 75.3%       |                    |         |             |
|                  | 2001 | 964                | 77,996  | 61.8%       | 1,036                             | 147,153 | 73.9%       | 337                | 16,820  | 39.0%       |
| Destination      | Year | Midwest Express    |         |             |                                   |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor |                                   |         |             |                    |         |             |
| Boston           | 1997 | 1,229              | 91,300  | 67.4%       |                                   |         |             |                    |         |             |
|                  | 2001 | 1,076              | 97,532  | 64.6%       |                                   |         |             |                    |         |             |
| Destination      | Year | USAirways          |         |             |                                   |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor |                                   |         |             |                    |         |             |
| Charlotte        | 1997 | 725                | 73,734  | 75.5%       |                                   |         |             |                    |         |             |
|                  | 2001 | 716                | 85,585  | 71.3%       |                                   |         |             |                    |         |             |
| Destination      | Year | American Trans Air |         |             | Chicago Express                   |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor |                    |         |             |
| Chicago MDW      | 1997 | 789                | 15,806  | 52.4%       |                                   |         |             |                    |         |             |
|                  | 2001 |                    |         |             | 2,052                             | 69,768  | 62.9%       |                    |         |             |
| Destination      | Year | United             |         |             | American Eagle                    |         |             | Air Wisconsin      |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor | Departures         | Seats   | Load Factor |
| Chicago ORD      | 1997 | 1,182              | 143,222 | 53.9%       | 3,397                             | 206,345 | 65.0%       | 1,935              | 177,150 | 51.3%       |
|                  | 2001 | 378                | 50,233  | 57.6%       | 2,443                             | 119,696 | 62.4%       | 1,650              | 148,362 | 52.9%       |
| Destination      | Year | Delta              |         |             | Comair                            |         |             | Skyway             |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor | Departures         | Seats   | Load Factor |
| Cincinnati       | 1997 | 1,079              | 153,183 | 56.2%       |                                   |         |             |                    |         |             |
|                  | 2001 | 1,019              | 144,698 | 64.8%       | 842                               | 42,090  | 60.1%       |                    |         |             |
| Destination      | Year | Midwest Express    |         |             | Continental (Continental Express) |         |             | Skyway             |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor | Departures         | Seats   | Load Factor |
| Cleveland        | 1997 | 776                | 50,616  | 53.7%       | 1,872                             | 76,060  | 55.8%       |                    |         |             |
|                  | 2001 | 487                | 36,480  | 24.7%       | 1,668                             | 71,411  | 57.5%       |                    |         |             |
| Destination      | Year | Midwest Express    |         |             | Skyway                            |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor |                    |         |             |
| Columbus         | 1997 | 481                | 29,436  | 51.6%       |                                   |         |             |                    |         |             |
|                  | 2001 | 282                | 17,640  | 35.2%       |                                   |         |             |                    |         |             |
| Destination      | Year | Midwest Express    |         |             | American Eagle                    |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor |                    |         |             |
| Dallas/Ft. Worth | 1997 | 1,234              | 95,232  | 60.6%       |                                   |         |             |                    |         |             |
|                  | 2001 | 1,182              | 101,220 | 54.2%       | 1,288                             | 64,153  | 10.3%       |                    |         |             |
| Destination      | Year | Midwest Express    |         |             | Air Wisconsin                     |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor | Departures                        | Seats   | Load Factor |                    |         |             |
| Denver           | 1997 | 682                | 42,524  | 71.5%       | 1,229                             | 110,978 | 62.6%       |                    |         |             |
|                  | 2001 | 656                | 68,492  | 59.5%       | 1,072                             | 92,964  | 69.5%       |                    |         |             |
| Destination      | Year | Northwest          |         |             |                                   |         |             |                    |         |             |
|                  |      | Departures         | Seats   | Load Factor |                                   |         |             |                    |         |             |
| Detroit          | 1997 | 2,532              | 386,489 | 68.3%       |                                   |         |             |                    |         |             |
|                  | 2001 | 2,369              | 359,269 | 54.6%       |                                   |         |             |                    |         |             |

TABLE 3.2-4 (Continued)

## General Mitchell International Airport

## AIR SERVICE CHARACTERISTICS

| Midwest Express     |      |            |         |             |
|---------------------|------|------------|---------|-------------|
| Destination         | Year | Departures | Seats   | Load Factor |
| Ft. Myers           | 1997 | 124        | 10,368  | 77.8%       |
|                     | 2001 | 140        | 15,760  | 84.2%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Hartford            | 1997 |            |         |             |
|                     | 2001 | 487        | 35,268  | 51.7%       |
| Continental         |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Houston             | 1997 | 362        | 40,094  | 52.8%       |
|                     | 2001 | 265        | 31,239  | 54.0%       |
| Continental Express |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Houston             | 1997 |            |         |             |
|                     | 2001 | 422        | 21,087  | 76.0%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Kansas City         | 1997 | 1,272      | 82,400  | 56.9%       |
|                     | 2001 | 1,594      | 129,324 | 55.8%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| LaGuardia           | 1997 | 1,349      | 98,368  | 75.1%       |
|                     | 2001 | 1,257      | 129,708 | 63.6%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Las Vegas           | 1997 | 34         | 2,912   | 86.1%       |
|                     | 2001 | 340        | 38,640  | 72.4%       |
| America West        |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Las Vegas           | 1997 | 361        | 46,817  | 64.4%       |
|                     | 2001 | 247        | 30,934  | 59.2%       |
| Sun Country         |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Las Vegas           | 1997 |            |         |             |
|                     | 2001 | 350        | 77,498  | 87.0%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Los Angeles         | 1997 | 608        | 68,068  | 80.0%       |
|                     | 2001 | 595        | 67,388  | 72.4%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Madison             | 1997 | 610        | 50,824  | 40.0%       |
|                     | 2001 | 537        | 58,716  | 37.0%       |
| Skyway              |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Madison             | 1997 |            |         |             |
|                     | 2001 |            |         |             |
| Northwest           |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Memphis             | 1997 | 1,055      | 135,421 | 69.1%       |
|                     | 2001 | 1,040      | 135,327 | 58.6%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Minneapolis         | 1997 | 610        | 50,824  | 40.0%       |
|                     | 2001 | 537        | 58,716  | 37.0%       |
| Northwest           |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Minneapolis         | 1997 | 2,258      | 403,360 | 66.5%       |
|                     | 2001 | 2,338      | 393,525 | 63.7%       |
| Sun Country         |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Minneapolis         | 1997 |            |         |             |
|                     | 2001 | 448        | 76,980  | 40.9%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Newark              | 1997 | 1,241      | 88,668  | 62.0%       |
|                     | 2001 | 1,131      | 85,360  | 54.2%       |
| Continental Express |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Newark              | 1997 | 708        | 35,400  | 53.5%       |
|                     | 2001 | 1,122      | 55,944  | 43.5%       |
| Midwest Express     |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Omaha               | 1997 | 956        | 73,008  | 49.8%       |
|                     | 2001 | 1,189      | 90,916  | 52.6%       |
| Skyway              |      |            |         |             |
| Destination         | Year | Departures | Seats   | Load Factor |
| Omaha               | 1997 |            |         |             |
|                     | 2001 |            |         |             |

TABLE 3.2-4 (Continued)

## General Mitchell International Airport

## AIR SERVICE CHARACTERISTICS

| Destination    | Year | Midwest Express      |         |             | Sun Country  |        |             |
|----------------|------|----------------------|---------|-------------|--------------|--------|-------------|
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| Orlando        | 1997 | 469                  | 38,656  | 72.5%       |              |        |             |
|                | 2001 | 600                  | 69,392  | 81.0%       | 294          | 51,450 | 62.9%       |
| Destination    | Year | Midwest Express      |         |             |              |        |             |
|                |      | Departures           | Seats   | Load Factor |              |        |             |
| Philadelphia   | 1997 | 749                  | 55,556  | 68.7%       |              |        |             |
|                | 2001 | 966                  | 73,080  | 54.3%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             | America West |        |             |
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| Phoenix        | 1997 | 130                  | 11,732  | 71.7%       | 717          | 93,359 | 81.8%       |
|                | 2001 | 630                  | 72,976  | 67.2%       | 704          | 94,354 | 72.5%       |
| Destination    | Year | USAirways            |         |             | Skyway       |        |             |
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| Pittsburgh     | 1997 | 1,383                | 155,816 | 59.5%       |              |        |             |
|                | 2001 | 1,339                | 157,277 | 47.5%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             |              |        |             |
|                |      | Departures           | Seats   | Load Factor |              |        |             |
| Raleigh Durham | 1997 |                      |         |             |              |        |             |
|                | 2001 | 502                  | 32,952  | 47.3%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             |              |        |             |
|                |      | Departures           | Seats   | Load Factor |              |        |             |
| San Francisco  | 1997 | 222                  | 24,612  | 80.0%       |              |        |             |
|                | 2001 | 239                  | 26,804  | 77.9%       |              |        |             |
| Destination    | Year | American Eagle (TWA) |         |             | Skyway       |        |             |
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| St. Louis      | 1997 | 2,320                | 247,638 | 55.7%       |              |        |             |
|                | 2001 | 2,013                | 216,233 | 48.3%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             |              |        |             |
|                |      | Departures           | Seats   | Load Factor |              |        |             |
| Tampa          | 1997 | 115                  | 9,636   | 61.7%       |              |        |             |
|                | 2001 | 129                  | 11,348  | 59.1%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             | Skyway       |        |             |
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| Washington DCA | 1997 | 1,052                | 85,320  | 65.3%       |              |        |             |
|                | 2001 | 1,019                | 101,412 | 57.9%       |              |        |             |
| Destination    | Year | Midwest Express      |         |             | Skyway       |        |             |
|                |      | Departures           | Seats   | Load Factor | Departures   | Seats  | Load Factor |
| Washington IAD | 1997 |                      |         |             |              |        |             |
|                | 2001 | 216                  | 18,356  | 45.6%       |              |        |             |

Source: T100 Statistics  
PB Aviation, Inc. Analysis

Several markets have registered load factors above 70 percent; Charlotte, Fort Myers, Los Angeles, Orlando and San Francisco. This indicates that these markets may be able to sustain more service. In order to average a load factor this high across a year, many flights must be departing full, and there were passengers who could not be accommodated.

**Table 3.2-5** presents the market shares held by the carriers serving GMIA 1996 through 2001. Carriers are listed in order of their percentage share of GMIA's market in 2001. At the lower part of the table is a list of carriers combining major and regional partners. Midwest Express has held the largest share of traffic at the Airport over this period. Skyway's share has grown significantly, representing an average annual growth in traffic of 12.3 percent over this period. The combination of Midwest Express and Skyway represented 36.6 percent of GMIA enplanements in 2001. Northwest's share has declined. Delta's share has remained relatively constant at around 7 percent, and the combined share of Delta and its regional partners has remained constant at 8.0 to 8.6 percent. Sun Country no longer operates as a scheduled carrier at GMIA.

Travel agents serving clients who travel out of GMIA were surveyed to obtain qualitative information on air service at the Airport. The agencies surveyed serve a mix of business and pleasure travelers, with approximately 60 to 65 percent of their business being pleasure travel. They indicated that they frequently experience a shortage of seats in the Ft Myers, Las Vegas and Phoenix markets. Seattle and Miami headed the list of cities where the agents felt that non-stop service was most needed. Their reaction to the start-up of service by AirTran was mixed. The agents indicated that they were uncertain whether service by the low fare carrier would stimulate much new travel that would not have happened otherwise. All of the agents interviewed indicated a high degree of satisfaction with many aspects of travel into and out of GMIA. They liked the cost and convenience of parking, the Airport location and easy access, the range of carriers offering service and, generally, the range of service offered. Many liked the curbside drop-off and pick-up convenience, although it was mentioned that this had become less convenient since September 11.



| <p align="center"><b>TABLE 3.2-5</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>CARRIER MARKET SHARE</b></p> |       |       |       |       |       |       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|
| Carrier                                                                                                                                                        | 1996  | 1997  | 1998  | 1999  | 2000  | 2001  |
| Midwest Express                                                                                                                                                | 25.5% | 26.2% | 26.8% | 28.4% | 26.9% | 27.4% |
| Northwest                                                                                                                                                      | 22.5% | 22.3% | 19.8% | 20.8% | 21.7% | 19.2% |
| Skyway                                                                                                                                                         | 5.3%  | 5.3%  | 6.2%  | 6.5%  | 7.4%  | 9.2%  |
| Delta                                                                                                                                                          | 7.1%  | 7.2%  | 6.9%  | 7.1%  | 6.8%  | 7.2%  |
| Sun Country                                                                                                                                                    | 0.2%  | 0.2%  | 0.4%  | 4.0%  | 7.5%  | 5.6%  |
| Air Wisconsin                                                                                                                                                  | 5.2%  | 5.6%  | 6.1%  | 5.8%  | 5.2%  | 5.1%  |
| US Airways                                                                                                                                                     | 5.2%  | 5.3%  | 5.2%  | 4.3%  | 4.6%  | 5.0%  |
| American Eagle                                                                                                                                                 | 4.8%  | 4.8%  | 4.9%  | 3.4%  | 4.1%  | 4.1%  |
| TWA                                                                                                                                                            | 4.7%  | 4.9%  | 4.8%  | 4.8%  | 4.4%  | 3.7%  |
| America West                                                                                                                                                   | 3.8%  | 3.8%  | 3.4%  | 2.8%  | 2.6%  | 2.9%  |
| Continental Express                                                                                                                                            | 0.7%  | 2.0%  | 2.0%  | 1.9%  | 2.3%  | 2.9%  |
| Chicago Express                                                                                                                                                | 0.1%  | 0.5%  | 0.6%  | 0.8%  | 0.9%  | 1.6%  |
| Other                                                                                                                                                          | 0.0%  | 0.0%  | 0.0%  | 0.2%  | 0.0%  | 1.2%  |
| Mesa                                                                                                                                                           | 0.0%  | 0.0%  | 0.5%  | 0.9%  | 0.9%  | 1.0%  |
| Comair                                                                                                                                                         | 1.0%  | 1.0%  | 1.4%  | 1.5%  | 1.3%  | 0.9%  |
| Air Canada                                                                                                                                                     | 0.0%  | 0.1%  | 0.7%  | 0.7%  | 0.8%  | 0.9%  |
| United                                                                                                                                                         | 2.4%  | 2.5%  | 2.6%  | 1.7%  | 1.4%  | 0.9%  |
| Continental                                                                                                                                                    | 1.8%  | 1.0%  | 0.8%  | 0.8%  | 0.7%  | 0.6%  |
| Atlantic Southeast                                                                                                                                             | 0.0%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  | 0.2%  |
| US Airways Express                                                                                                                                             | 0.5%  | 0.4%  | 0.4%  | 0.3%  | 0.2%  | 0.1%  |
| Casino Express                                                                                                                                                 | 0.1%  | 0.1%  | 0.1%  | 0.1%  | 0.1%  | 0.0%  |
| Scott Aviation                                                                                                                                                 | 0.1%  | 0.1%  | 0.1%  | 0.1%  | 0.1%  | 0.0%  |
| American Trans Air                                                                                                                                             | 8.5%  | 6.3%  | 6.3%  | 2.8%  | 0.0%  | 0.0%  |
| Metrojet                                                                                                                                                       | 0.0%  | 0.0%  | 0.0%  | 0.4%  | 0.2%  | 0.0%  |
| Mexicana Airlines                                                                                                                                              | 0.0%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  |
| Pro Air                                                                                                                                                        | 0.0%  | 0.2%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  |
| TWA Express                                                                                                                                                    | 0.3%  | 0.2%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  |
| United Express                                                                                                                                                 | 0.2%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  | 0.0%  |
| Selected Carriers combined with affiliates                                                                                                                     |       |       |       |       |       |       |
| Midwest Express + Skyway                                                                                                                                       | 30.8% | 31.5% | 33.0% | 34.9% | 34.3% | 36.6% |
| Delta + Comair + Atlantic Southeast                                                                                                                            | 8.1%  | 8.3%  | 8.3%  | 8.6%  | 8.0%  | 8.4%  |
| US Airways + US Airways Express                                                                                                                                | 5.7%  | 5.7%  | 5.6%  | 4.6%  | 4.9%  | 5.1%  |
| Continental + Continental Express                                                                                                                              | 2.5%  | 3.0%  | 2.8%  | 2.7%  | 3.0%  | 3.5%  |
| American Trans Air + Chicago Express                                                                                                                           | 8.6%  | 6.8%  | 7.0%  | 3.6%  | 0.9%  | 1.6%  |
| United + United Express                                                                                                                                        | 2.6%  | 2.5%  | 2.6%  | 1.7%  | 1.4%  | 0.9%  |

Source: General Mitchell International Airport Data  
PB Aviation, Inc. Analysis

### **3.3 ANNUAL CARGO POUNDAGE PROJECTIONS**

Freight and mail at GMIA have exhibited strong growth over the last few decades. The activity is domestic, as international cargo is usually flown out of Chicago on international flights. Changes to the security environment after September 11 have had an impact on cargo volume at GMIA, as at most airports in the country. However, conversations with several carriers at the Airport indicate that there is still a strong interest by both all-cargo and passenger carriers to pursue freight and mail as valuable business enterprises for the airlines.

Historical and forecast freight and mail volumes are presented in **Table 3.3-1**.

#### **3.3.1 Freight Poundage**

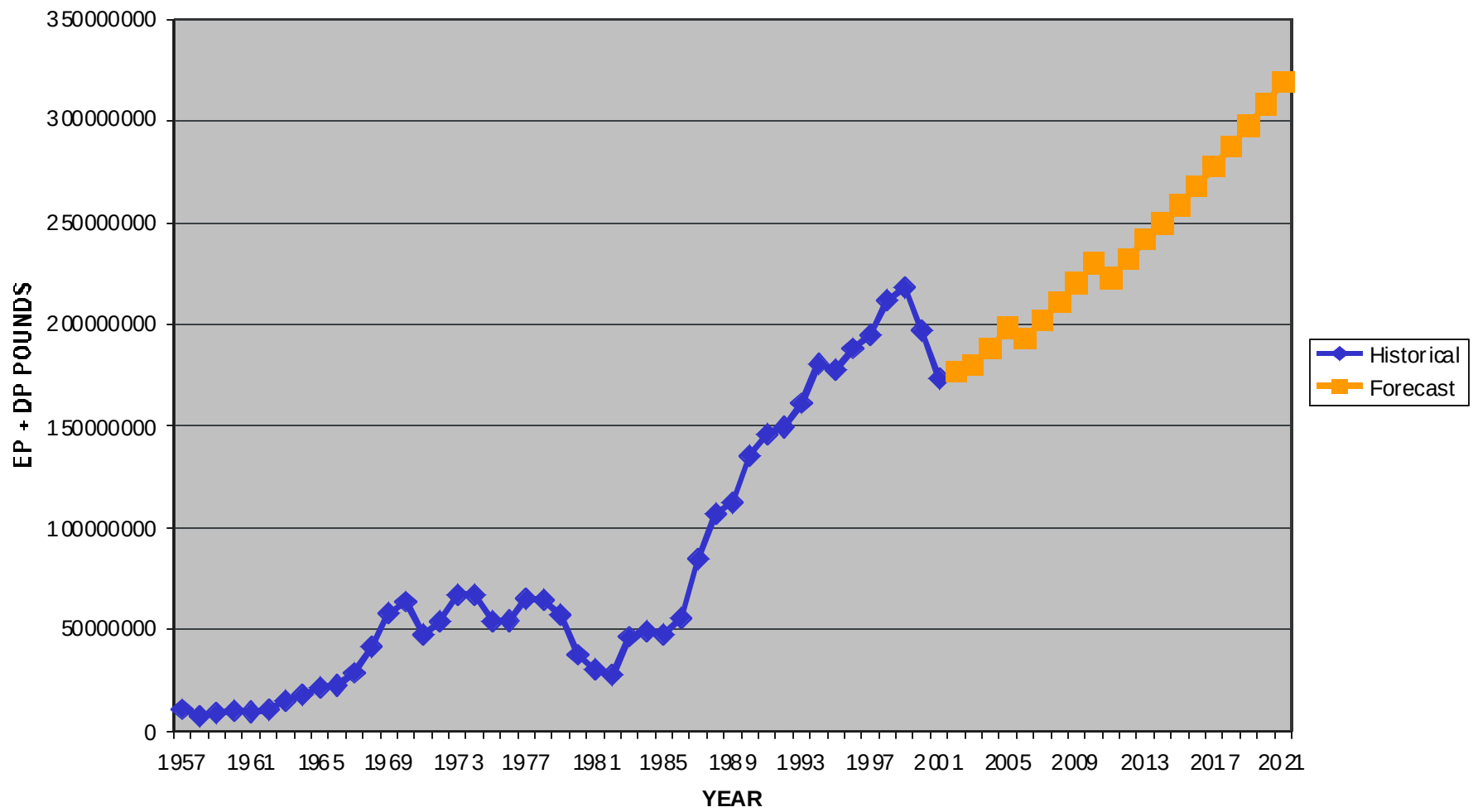
As indicated in **Exhibit 3.3-1**, freight poundage growth at GMIA has followed several different patterns over the years. Freight poundage grew steadily from 1957 through 1971, then fluctuated through 1983, and took off rapidly from 1983 through 1999. From 1999, cargo volume has declined significantly. This erratic pattern made it difficult to fit a socio-economic regression equation to the historical data.

Following the terrorist attacks of September 11, security procedures regarding the carriage of freight changed significantly, as they did on the passenger side of aviation. Passenger carriers wanting to carry freight in the bellies of passenger aircraft were required to conduct background checks on their freight customers. The passenger carriers are restricted to doing business with “known shippers”, i.e., customers with whom they have a working history and whose credit is in good standing. Passenger carriers can no longer accept packages from the unknown walk-up customer. However, in spite of the added security costs associated with carrying belly cargo, and the fact that some of the freight market has simply been placed out of bounds for passenger carriers, these carriers are still interested in carrying as much belly cargo as they can accommodate. Belly cargo is a high profit margin product for the carriers.

**TABLE 3.3-1**  
**General Mitchell International Airport**  
**CARGO ACTIVITY**

| Year                               | Freight     |             |             | Mail       |            |            | By Carrier Type |            |            |            |
|------------------------------------|-------------|-------------|-------------|------------|------------|------------|-----------------|------------|------------|------------|
|                                    | Enplaned    | Deplaned    | Total       | Enplaned   | Deplaned   | Total      | Freight         |            | Mail       |            |
|                                    |             |             |             |            |            |            | All Cargo       | Passenger  | All Cargo  | Passenger  |
| 1990                               | 72,690,804  | 62,834,659  |             | 16,780,597 | 25,779,825 | 42,560,422 |                 |            |            |            |
| 1991                               | 77,835,884  | 68,238,449  | 146,074,333 | 27,288,661 | 34,701,191 | 61,989,852 |                 |            |            |            |
| 1992                               | 77,036,035  | 72,521,625  | 149,557,660 | 22,038,296 | 31,374,522 | 53,412,818 |                 |            |            |            |
| 1993                               | 85,588,839  | 75,435,831  | 161,024,670 | 17,990,738 | 25,695,571 | 43,686,309 |                 |            |            |            |
| 1994                               | 97,793,513  | 82,718,731  | 180,512,244 | 22,786,375 | 26,224,580 | 49,010,955 |                 |            |            |            |
| 1995                               | 96,297,410  | 81,191,395  | 177,488,805 | 27,867,893 | 27,754,699 | 55,622,592 |                 |            |            |            |
| 1996                               | 99,607,603  | 88,685,587  | 188,293,190 | 29,777,555 | 28,544,463 | 58,322,018 | 169,751,820     | 18,541,370 | 5,819,850  | 52,502,168 |
| 1997                               | 103,230,939 | 91,434,835  | 194,665,774 | 27,966,907 | 27,285,550 | 55,252,457 | 173,642,730     | 21,028,011 | 4,879,807  | 50,372,950 |
| 1998                               | 115,620,552 | 96,270,174  | 211,890,726 | 26,856,266 | 24,551,572 | 51,407,838 | 192,262,215     | 19,628,511 | 6,563,304  | 44,844,534 |
| 1999                               | 115,256,731 | 102,845,579 | 218,102,310 | 23,766,135 | 20,933,145 | 44,699,280 | 199,963,438     | 18,138,872 | 6,577,202  | 38,122,078 |
| 2000                               | 102,146,826 | 94,714,469  | 196,861,295 | 23,948,825 | 20,246,232 | 44,195,057 | 181,786,161     | 15,075,134 | 6,048,619  | 38,146,438 |
| 2001                               | 88,903,206  | 84,615,354  | 173,518,560 | 18,194,107 | 14,490,864 | 32,684,971 | 162,558,225     | 10,960,335 | 3,830,646  | 28,854,325 |
| <b>Forecasts</b>                   |             |             |             |            |            |            |                 |            |            |            |
| 2006                               | 103,546,838 | 89,637,562  | 193,184,400 | 11,866,401 | 13,762,974 | 25,629,375 | 183,774,400     | 9,410,000  | 19,222,031 | 6,407,344  |
| 2011                               | 119,299,128 | 103,273,872 | 222,573,000 | 13,557,238 | 15,724,054 | 29,281,292 | 213,814,500     | 8,758,500  | 21,960,969 | 7,320,323  |
| 2021                               | 171,163,517 | 148,171,403 | 319,334,920 | 17,696,022 | 20,524,328 | 38,220,350 | 308,691,719     | 10,643,201 | 28,665,263 | 9,555,088  |
| <b>Average Annual Growth Rates</b> |             |             |             |            |            |            |                 |            |            |            |
| 1996-2001                          | (2.2)%      | (0.9)%      | (1.6)%      | (9.4)%     | (12.7)%    | (10.9)%    | (0.9)%          | (10.0)%    | (8.0)%     | (11.3)%    |
| 2001-2006                          | 3.1%        | 1.2%        | 2.2%        | (8.2)%     | (1.0)%     | (4.7)%     | 2.5%            | (3.0)%     | 38.1%      | (26.0)%    |
| 2006-2011                          | 2.9%        | 2.9%        | 2.9%        | 2.7%       | 2.7%       | 2.7%       | 3.1%            | (1.4)%     | 2.7%       | 2.7%       |
| 2011-2021                          | 3.7%        | 3.7%        | 3.7%        | 2.7%       | 2.7%       | 2.7%       | 3.7%            | 2.0%       | 2.7%       | 2.7%       |

Source: General Mitchell International Airport Data  
PB Aviation, Inc. Analysis



Domestic belly space is available to the carriers at virtually no incremental cost. Space for belly cargo is produced by virtue of flying the aircraft for passenger operations.

### **3.3.1.1 Freight Poundage Methodology**

Various socioeconomic variables were reviewed to determine which best correlated with the historical growth of freight at GMIA. None of the relationships proved statistically strong enough to use to project freight volume. Therefore, recent freight activity at GMIA was compared to cargo activity in the U.S. to see how the Airport had grown relative to the nation as a whole. Historical and forecast data for U.S. cargo is available for revenue ton miles (RTMs) rather than tonnage, so that variable was used. in **Table 3.3-2:**

| <b>TABLE 3.3-2</b>                                         |                          |                          |
|------------------------------------------------------------|--------------------------|--------------------------|
| <b>General Mitchell International Airport</b>              |                          |                          |
| <b>RATIO OF GMIA FREIGHT POUNDS TO U.S. CARGO ACTIVITY</b> |                          |                          |
| Year                                                       | All-Cargo Flights (Lbs.) | Passenger Flights (Lbs.) |
| 1996                                                       | 0.21                     | 0.007                    |
| 1997                                                       | 0.20                     | 0.008                    |
| 1998                                                       | 0.22                     | 0.007                    |
| 1999                                                       | 0.22                     | 0.007                    |
| 2000                                                       | 0.19                     | 0.006                    |
| 2001                                                       | 0.17                     | 0.005                    |

Source: General Mitchell International Airport  
PB Aviation , Inc. Analysis

Given that GMIA freight has declined relative to U.S. cargo activity since 1996, it was assumed that this decline would continue, albeit slowly. By 2006 the ratio of GMIA all-cargo carrier freight pounds to U.S. cargo activity was forecast to be 0.016, and fall to 0.15 by 2011. It is forecast to stay at .015 through 2021. The ratio of GMIA freight on passenger carriers was assumed to fall to .004 by 2006, to .003 by 2011, and to remain there through 2021. Table 3.3-1 indicates that this pattern brings GMIA freight back up to its 2000 level by 2006, and past its 1999 peak by 2011.

### **3.3.1.2 Freight Poundage Projections**

This projection relative to U.S. totals results in an increase in the share of total freight carried by all-cargo carriers. All cargo carriers flew 93.7 percent of total freight in 2001. This share increases to 95.1 percent in 2006, 96.1 percent in 2011, and 96.7 percent in 2021. Passenger carriers' share of freight falls from 6.3 percent in 2001 to 3.3 percent in 2021. Passenger carriers barely return to 2001 volumes by 2021.

Enplaned freight was assumed to be 53.4 percent of total freight as it has been historically, with deplaned freight representing 46.6 percent.

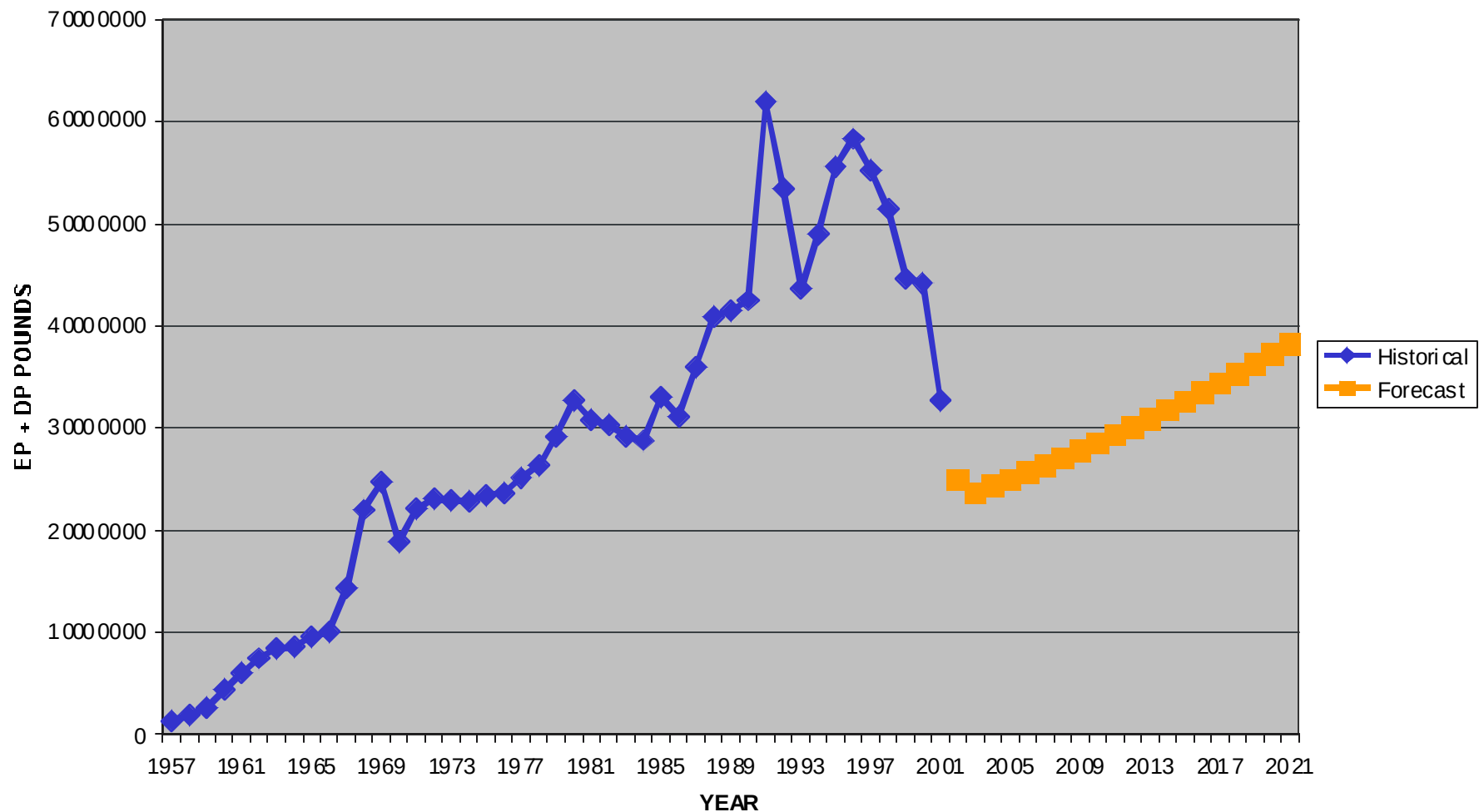
### **3.3.2 Mail Poundage**

As indicated in **Exhibit 3.3-2**, mail volume reached its peak at GMIA in 1991 when it spiked upward for a two-year period. It has been trending down since 1997, and dropped over 26 percent in 2001 from 2000. Overall in the U.S., the FAA is forecasting a 23.8 percent decline in domestic air mail RTMs in fiscal year 2002 versus 2001, and a further decline of 5.0 percent in 2003. This is on top of a 15.2 percent decline in 2001 versus 2000.

The U.S. Postal service has shifted delivery of mail from air to ground for distances up to 1000 miles. Security concerns have caused them to shift all but first class mail under 16 ounces in weight from passenger carriers to all-cargo carriers. These factors have significantly altered the outlook for mail volumes and mode of transit at GMIA for the forecast period.

The erratic behavior of GMIA mail volumes over the last 10 years makes it impossible to relate mail to any socioeconomic variables. Trending volume the way it has been moving since 1996 would result in virtually no mail at GMIA before the end of the forecast period. The FAA forecast of mail assumes a decline in domestic mail carried by air through 2003. The growth that is forecast to resume after that will result in a 2011 domestic mail volume that is over 10 percent below 2001. Thus, the outlook for mail is not a growth scenario.

GMIA mail has been projected using growth rates similar to those in the FAA's projections for domestic mail carried by air. This projection results in a 2006 mail volume that is 21.6 percent below 2001. By 2011, the projection anticipates that mail volume has resumed growing and is only 10.4 percent below 2001. The projection expects that mail volumes will recover to their 2001 volume by 2015.



Historically, most of the mail at GMIA, 88 percent, has been carrier by passenger carriers. However, recent security measures allow passenger carriers to carry only first class mail, with all mail over 16 ounces going on all-cargo carriers. Thus, the percentage of mail going to passenger carriers has been reduced to 25 percent, which has been the experience at GMIA in recent months.

### **3.4 ANNUAL OPERATIONS AND FLEET MIX PROJECTIONS**

The volume projections discussed in the preceding were used to forecast the number of aircraft operations at GMIA through 2021. Along with the operations projections, the mix of aircraft types expected to perform these operations is also projected. As with the volume projections, the primary source of data was GMIA records. Information from aviation industry sources and aircraft manufacturers was used in determining the future configuration of the aircraft fleet.

This section is organized as follows:

- *Passenger Carrier Operations and Fleet Mix*
- *All Cargo Operations and Fleet Mix*
- *General Aviation Operations and Fleet Mix*
- *Military Operations and Fleet Mix*
- *Summary of Operations and Fleet Mix Projections*

#### **3.4.1 Passenger Carrier Operations and Fleet Mix**

Passenger carrier operations are presented in **Table 3.4-1**. The table indicates that departures on major carriers have declined since 1996, while commuter departures have grown at an average rate of 6.2 percent annually. This reflects the transition of the major carriers to service on regional jets provided by their respective partners. American has transitioned entirely to American Eagle service at GMIA. Continental has shifted service to Continental Express, United has shifted to United Express, and ATA provides service to Chicago using Chicago Express. Midwest Express continues to expand both major carrier service and service on Skyway. Midwest Express enplanements have grown at an



average annual rate of 4.0 percent 1996 through 2001, while Skyway has averaged 12.3 percent growth annually. Charter departures have exhibited erratic growth patterns. This is partly due to reporting conventions that do not separate charter operations on scheduled carriers from their scheduled operations. The charter departures reported in Table 3.4-1 are only those performed by charter carriers. Charter services performed by ATA or Sun Country are included in their respective scheduled operations.

Departures were projected by reviewing historical enplanements per departure, projecting this statistic, and applying it to the enplanement forecast to project departures. On the major carriers, the number of enplanements per departure has declined since 1996. This has been driven by the emergence of Midwest Express as an increasingly larger player in the GMIA markets. Midwest Express' equipment has fewer seats and, therefore, carries fewer passengers per departure than the other major carriers. As Midwest continues to expand at GMIA using its 717 fleet, the number of passengers per departure is expected to grow at the Airport. This assumption is consistent with those made by the FAA in its annual forecasts. Applying this rate of growth in enplanements per departure to the enplanement forecast for the majors results in a departure forecast for the major carriers that increases 2.8 percent annually 2001 through 2006, 2.5 percent per year 2006 through 2011, and 2.4 percent annually thereafter.

Commuter enplanements per departure have grown at 0.3 enplanements per year over the past five years. As Skyway transitions from its fleet of 19-seat aircraft to regional jets, it is expected that this enplanement per year growth will increase to 0.6 enplanements per year. This growth produces a commuter departure forecast growth of 4.8 percent annually 2001 through 2006, 1.4 percent 2006 through 2011, and 1.7 percent thereafter.

**TABLE 3.4-1**

**General Mitchell International Airport**

**PASSENGER OPERATIONS**

| Year                               | Departures                                                                                               |           |          |                                                           | Enplanements Per Departure |           |          | Operations |           |          |         |
|------------------------------------|----------------------------------------------------------------------------------------------------------|-----------|----------|-----------------------------------------------------------|----------------------------|-----------|----------|------------|-----------|----------|---------|
|                                    | Majors                                                                                                   | Commuters | Charter* | Total                                                     | Majors                     | Commuters | Charter* | Majors     | Commuters | Charter* | Total   |
| 1996                               | 33,355                                                                                                   | 28,882    | 1,334    | 63,571                                                    | 67                         | 17        | 4        | 66,710     | 57,764    | 2,668    | 127,142 |
| 1997                               | 32,969                                                                                                   | 31,393    | 1,494    | 65,856                                                    | 68                         | 18        | 7        | 65,938     | 62,786    | 2,988    | 131,712 |
| 1998                               | 33,266                                                                                                   | 33,814    | 1,248    | 68,328                                                    | 65                         | 19        | 4        | 66,532     | 67,628    | 2,496    | 136,656 |
| 1999                               | 34,787                                                                                                   | 34,666    | 1,381    | 70,834                                                    | 65                         | 19        | 7        | 69,574     | 69,332    | 2,762    | 141,668 |
| 2000                               | 34,971                                                                                                   | 37,921    | 995      | 73,887                                                    | 67                         | 19        | 4        | 69,942     | 75,842    | 1,990    | 147,774 |
| 2001                               | 31,760                                                                                                   | 38,991    | 780      | 71,531                                                    | 64                         | 19        | 45       | 63,520     | 77,982    | 1,560    | 143,062 |
| <b>Forecasts</b>                   |                                                                                                          |           |          |                                                           |                            |           |          |            |           |          |         |
| 2006                               | 36,527                                                                                                   | 49,393    | 1,034    | 86,953                                                    | 69                         | 22        | 47       | 73,054     | 98,786    | 2,067    | 173,907 |
| 2011                               | 41,255                                                                                                   | 52,844    | 1,130    | 95,229                                                    | 74                         | 25        | 50       | 82,510     | 105,687   | 2,260    | 190,457 |
| 2021                               | 52,460                                                                                                   | 62,591    | 1,371    | 116,422                                                   | 84                         | 31        | 55       | 104,919    | 125,183   | 2,741    | 232,843 |
| <b>Average Annual Growth Rates</b> |                                                                                                          |           |          |                                                           |                            |           |          |            |           |          |         |
|                                    |                                                                                                          |           |          | Annual Change in the Number of Enplanements Per Departure |                            |           |          |            |           |          |         |
| 1996-2001                          | (1.0)%                                                                                                   | 6.2%      | (10.2)%  | 2.4%                                                      | (0.5)                      | 0.3       | 8.4      | (1.0)%     | 6.2%      | (10.2)%  | (10.2)% |
| 2001-2006                          | 2.8%                                                                                                     | 4.8%      | 5.8%     | 4.0%                                                      | 1.0                        | 0.6       | 0.3      | 2.8%       | 4.8%      | 5.8%     | 4.0%    |
| 2006-2011                          | 2.5%                                                                                                     | 1.4%      | 1.8%     | 1.8%                                                      | 1.0                        | 0.6       | 0.6      | 2.5%       | 1.4%      | 1.8%     | 1.8%    |
| 2011-2021                          | 2.4%                                                                                                     | 1.7%      | 1.9%     | 2.0%                                                      | 1.0                        | 0.6       | 0.5      | 2.4%       | 1.7%      | 1.9%     | 2.0%    |
| *                                  | Charter activity not occurring on scheduled carriers such as American Trans Air, Sun Country, or majors. |           |          |                                                           |                            |           |          |            |           |          |         |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

The net result as presented in Table 3.4-1 is a passenger operations total growing at 4 percent annually 2001 through 2006, with slower growth thereafter.

The passenger fleet mix forecast is presented in **Table 3.4-2**. The BE1-type aircraft declines significantly as Skyway transitions to regional jets. However, there will always be small cities in Wisconsin and Michigan that will be fed to Midwest Express at GMIA using small equipment, so this type of aircraft will not disappear from the fleet entirely. Regional jets grow from 33 percent of total passenger operations in 2002 to 54.4 percent by 2021. The Boeing 717 will become the workhorse of the GMIA fleet by 2021, with almost 22 percent of total passenger operations. This equipment will be flown by Midwest Express and AirTran. The transition of Skyway to Embraer regional jets and Air Wisconsin to Canadair regional jets will increase this segment of aircraft activity at the Airport. Charter operations are expected to increase seat size by transitioning from 150-seat aircraft to 175-seat aircraft. It is expected that charter operations will be conducted with narrow body aircraft.

### ***3.4.2 All Cargo Carrier Operations and Fleet Mix***

Operations by all-cargo aircraft were forecast using freight volume as a base, and projecting all-cargo share of the total volume and all-cargo pounds per operation based upon historical relationships. **Table 3.4-3** presents the history and forecast of these operations.

All-cargo operations increased at 5.1 percent annually from 1996 through 2001. Over this same time period, the volume carried per operation declined 5.8 percent per year. In projecting cargo operations, the average pounds per operation experienced over the last six years was used as the projected pounds per operation. It is believed that cargo carriers will seek improvements to efficiency following the declines in cargo activity in 2001 and continuing into 2002. Therefore, it was assumed that poundage carried per operation would revert to the higher levels carried in the late 1990s. This volume was estimated to be 11,536 pounds per operation. Applying this to the poundage forecast for all-cargo

| <p align="center"><b>TABLE 3.4-2</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>PASSENGER FLEET MIX</b></p> |                                          |             |             |             |                                |             |             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|
| Equipment                                                                                                                                                     | Departures Average Day of the Peak Month |             |             |             | Distribution by Equipment Type |             |             |             |
| <u>Type</u>                                                                                                                                                   | <u>2002</u>                              | <u>2006</u> | <u>2011</u> | <u>2021</u> | <u>2002</u>                    | <u>2006</u> | <u>2011</u> | <u>2021</u> |
| BE1                                                                                                                                                           | 54                                       | 27          | 18          | 18          | 22.3%                          | 10.8%       | 6.6%        | 5.4%        |
| FRJ                                                                                                                                                           | 37                                       | 37          | 37          | 37          | 15.3%                          | 14.9%       | 13.6%       | 11.1%       |
| SF3                                                                                                                                                           | 7                                        | 7           | 7           | 0           | 2.9%                           | 2.8%        | 2.6%        | 0.0%        |
| ER3                                                                                                                                                           | 5                                        | 15          | 20          | 29          | 2.1%                           | 6.0%        | 7.4%        | 8.7%        |
| ERD                                                                                                                                                           | 5                                        | 14          | 18          | 24          | 2.1%                           | 5.6%        | 6.6%        | 7.2%        |
| ERJ                                                                                                                                                           | 8                                        | 9           | 11          | 22          | 3.3%                           | 3.6%        | 4.0%        | 6.6%        |
| CRJ                                                                                                                                                           | 18                                       | 20          | 31          | 41          | 7.4%                           | 8.0%        | 11.4%       | 12.3%       |
| ER4                                                                                                                                                           | 7                                        | 17          | 21          | 28          | 2.9%                           | 6.8%        | 7.7%        | 8.4%        |
| DC9                                                                                                                                                           | 8                                        | 0           | 0           | 0           | 3.3%                           | 0.0%        | 0.0%        | 0.0%        |
| D9S                                                                                                                                                           | 30                                       | 3           | 3           | 3           | 12.4%                          | 1.2%        | 1.1%        | 0.9%        |
| 146                                                                                                                                                           | 8                                        | 6           | 0           | 0           | 3.3%                           | 2.4%        | 0.0%        | 0.0%        |
| 319                                                                                                                                                           | 2                                        | 2           | 5           | 9           | 0.8%                           | 0.8%        | 1.8%        | 2.7%        |
| D95                                                                                                                                                           | 4                                        | 4           | 4           | 4           | 1.7%                           | 1.6%        | 1.5%        | 1.2%        |
| 733                                                                                                                                                           | 5                                        | 5           | 5           | 6           | 2.1%                           | 2.0%        | 1.8%        | 1.8%        |
| 72S                                                                                                                                                           | 2                                        | 2           | 2           | 2           | 0.8%                           | 0.8%        | 0.7%        | 0.6%        |
| M80                                                                                                                                                           | 22                                       | 22          | 22          | 22          | 9.1%                           | 8.8%        | 8.1%        | 6.6%        |
| 734                                                                                                                                                           | 1                                        | 1           | 1           | 2           | 0.4%                           | 0.4%        | 0.4%        | 0.6%        |
| 320                                                                                                                                                           | 2                                        | 2           | 2           | 2           | 0.8%                           | 0.8%        | 0.7%        | 0.6%        |
| 757                                                                                                                                                           | 4                                        | 4           | 4           | 4           | 1.7%                           | 1.6%        | 1.5%        | 1.2%        |
| 717                                                                                                                                                           | 10                                       | 49          | 55          | 73          | 4.1%                           | 19.7%       | 20.2%       | 21.9%       |
| 73G                                                                                                                                                           | <u>3</u>                                 | <u>3</u>    | <u>6</u>    | <u>7</u>    | <u>1.2%</u>                    | <u>1.2%</u> | <u>2.2%</u> | <u>2.1%</u> |
| Total                                                                                                                                                         | 242                                      | 249         | 272         | 333         | 100.0%                         | 100.0%      | 100.0%      | 100.0%      |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

| <p align="center"><b>TABLE 3.4-3</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>ALL CARGO OPERATIONS</b></p> |             |            |             |            |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|------------|------------|
| Poundage on All Cargo Carriers                                                                                                                                 |             |            |             | All Cargo  | Pounds Per |
| Year                                                                                                                                                           | Freight     | Mail       | Total       | Operations | Operation  |
| 1996                                                                                                                                                           | 169,751,820 | 5,819,850  | 175,571,670 | 13,298     | 13,203     |
| 1997                                                                                                                                                           | 173,642,730 | 4,879,807  | 178,522,537 | 16,030     | 11,137     |
| 1998                                                                                                                                                           | 192,262,215 | 6,563,304  | 198,825,519 | 16,802     | 11,833     |
| 1999                                                                                                                                                           | 199,963,438 | 6,577,202  | 206,540,640 | 16,596     | 12,445     |
| 2000                                                                                                                                                           | 181,786,161 | 6,048,619  | 187,834,780 | 17,360     | 10,820     |
| 2001                                                                                                                                                           | 162,558,225 | 3,830,646  | 166,388,871 | 17,022     | 9,775      |
| <b>Forecasts</b>                                                                                                                                               |             |            |             |            |            |
| 2006                                                                                                                                                           | 183,774,400 | 19,222,031 | 202,996,431 | 17,597     | 11,536     |
| 2011                                                                                                                                                           | 213,814,500 | 21,960,969 | 235,775,469 | 20,439     | 11,536     |
| 2021                                                                                                                                                           | 308,691,719 | 28,665,263 | 337,356,982 | 29,245     | 11,536     |
| <b>Average Annual Growth Rates</b>                                                                                                                             |             |            |             |            |            |
| 1996-2001                                                                                                                                                      | (0.9)%      | (8.0)%     | (1.1)%      | 5.1%       | (5.8)%     |
| 2001-2006                                                                                                                                                      | 2.5%        | 38.1%      | 4.1%        | 0.7%       | 3.4%       |
| 2006-2011                                                                                                                                                      | 3.1%        | 2.7%       | 3.0%        | 3.0%       | 0.0%       |
| 2011-2021                                                                                                                                                      | 3.7%        | 2.7%       | 3.6%        | 3.6%       | 0.0%       |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

carriers results in the forecast operations in Table 3.4-3. Cargo operations grow very slowly in the 2001 through 2006 time frame as the carriers use existing capacity more efficiently. After 2006, when pounds per departure have reached the 11,536 level, cargo operations begin to grow again at 3.0 and 3.6 percent annually throughout the forecast period.

The cargo operations fleet mix is presented in **Table 3.4-4**. Larger equipment types, such as the A300 through the DC-9 are currently estimated to conduct 36 percent of all-cargo operations. This does not change significantly through the forecast period. Airbus 300 and Boeing 757 types of equipment are expected to replace the Boeing 727, DC-8 and DC-9 fleets of Federal Express and UPS.

| <p style="text-align: center;"><b>TABLE 3.4-4</b></p> <p style="text-align: center;"><b>General Mitchell International Airport</b></p> <p style="text-align: center;"><b>CARGO OPERATIONS FLEET MIX</b></p> |                                          |          |          |          |                                |              |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|----------|----------|--------------------------------|--------------|-------------|-------------|
| Equipment Type                                                                                                                                                                                              | Departures Average Day of the Peak Month |          |          |          | Distribution by Equipment Type |              |             |             |
|                                                                                                                                                                                                             | 2002                                     | 2006     | 2011     | 2021     | 2002                           | 2006         | 2011        | 2021        |
| A300                                                                                                                                                                                                        | 1                                        | 3        | 5        | 9        | 4.0%                           | 11.1%        | 16.1%       | 20.0%       |
| B-757                                                                                                                                                                                                       |                                          | 1        | 3        | 6        |                                | 3.7%         | 9.7%        | 13.3%       |
| B-727-200                                                                                                                                                                                                   | 4                                        | 3        |          |          | 16.0%                          | 11.1%        |             |             |
| DC-8                                                                                                                                                                                                        | 1                                        |          |          |          | 4.0%                           |              |             |             |
| B-727-100                                                                                                                                                                                                   | 1                                        |          |          |          | 4.0%                           |              |             |             |
| DC-9                                                                                                                                                                                                        | 1                                        | 1        |          |          | 4.0%                           | 3.7%         |             |             |
| 330-200                                                                                                                                                                                                     | 1                                        | 1        | 1        | 2        | 4.0%                           | 3.7%         | 3.2%        | 4.4%        |
| SA-227-AT                                                                                                                                                                                                   | 1                                        | 1        | 2        | 2        | 4.0%                           | 3.7%         | 6.5%        | 4.4%        |
| C-208                                                                                                                                                                                                       | 7                                        | 8        | 10       | 12       | 28.0%                          | 29.6%        | 32.3%       | 26.7%       |
| C-402                                                                                                                                                                                                       | 1                                        | 1        | 1        | 3        | 4.0%                           | 3.7%         | 3.2%        | 6.7%        |
| PA-31                                                                                                                                                                                                       | 1                                        | 1        | 2        | 3        | 4.0%                           | 3.7%         | 6.5%        | 6.7%        |
| CE-310R                                                                                                                                                                                                     | 3                                        | 4        | 4        | 4        | 12.0%                          | 14.8%        | 12.9%       | 8.9%        |
| BE-58                                                                                                                                                                                                       | <u>3</u>                                 | <u>3</u> | <u>3</u> | <u>4</u> | <u>12.0%</u>                   | <u>11.1%</u> | <u>9.7%</u> | <u>8.9%</u> |
| Total                                                                                                                                                                                                       | 25                                       | 27       | 31       | 45       | 100.0%                         | 100.0%       | 100.0%      | 100.0%      |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

However, the large aircraft represent a 37 percent share of total all-cargo operations by 2021, similar to their share today. The smaller types of aircraft are expected to continue operating as they do today, feeding the larger carriers and dispersing inbound cargo to smaller cities in the Wisconsin and Michigan area.

### 3.4.3 General Aviation Operations and Fleet Mix

Historical and forecast general aviation operations are presented in **Table 3.4-5**. General aviation operations at GMIA have been trending downward since 1990. Throughout the U.S. this activity declined through the 1980s and into the early 1990s as product liability costs discouraged manufactures from building new aircraft. In 1994 the General Aviation Revitalization Act was signed, limiting this liability exposure for aging general aviation aircraft. There was some rebound in activity following the passage of this Act, but GMIA did not

| <p align="center"><b>TABLE 3.4-5</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>GENERAL AVIATION OPERATIONS</b></p> |        |            |                   |                  |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-------------------|------------------|-------|
| General Aviation Operations                                                                                                                                           |        |            | GMIA %<br>of U.S. | General Aviation |       |
| Year                                                                                                                                                                  | GMIA   | U.S.Total  |                   | Itinerant        | Local |
| 1990                                                                                                                                                                  | 65,768 | 35,293,519 | 0.19%             |                  |       |
| 1991                                                                                                                                                                  | 67,519 | 38,910,962 | 0.17%             |                  |       |
| 1992                                                                                                                                                                  | 65,237 | 38,354,750 | 0.17%             |                  |       |
| 1993                                                                                                                                                                  | 63,370 | 36,600,990 | 0.17%             |                  |       |
| 1994                                                                                                                                                                  | 62,336 | 36,253,861 | 0.17%             |                  |       |
| 1995                                                                                                                                                                  | 55,174 | 35,926,520 | 0.15%             |                  |       |
| 1996                                                                                                                                                                  | 48,336 | 35,298,290 | 0.14%             | 41,862           | 6,474 |
| 1997                                                                                                                                                                  | 49,579 | 36,833,396 | 0.13%             | 43,619           | 5,960 |
| 1998                                                                                                                                                                  | 48,809 | 38,046,632 | 0.13%             | 42,279           | 6,530 |
| 1999                                                                                                                                                                  | 45,592 | 39,999,547 | 0.11%             | 39,846           | 5,746 |
| 2000                                                                                                                                                                  | 39,695 | 39,878,536 | 0.10%             | 35,671           | 4,024 |
| 2001                                                                                                                                                                  | 34,520 | 37,620,027 | 0.09%             | 30,883           | 3,637 |
| Forecasts                                                                                                                                                             |        |            |                   |                  |       |
| 2006                                                                                                                                                                  | 33,379 | 41,724,000 | 0.08%             | 29,374           | 4,006 |
| 2011                                                                                                                                                                  | 35,495 | 44,369,300 | 0.08%             | 31,236           | 4,259 |
| 2021                                                                                                                                                                  | 38,956 | 48,694,640 | 0.08%             | 34,281           | 4,675 |
| Average Annual Growth Rates                                                                                                                                           |        |            |                   |                  |       |
| 1990-2001                                                                                                                                                             |        |            |                   |                  |       |
| 2001-2006                                                                                                                                                             | (0.7)% | 2.1%       |                   | (1.0)%           | 1.9%  |
| 2006-2011                                                                                                                                                             | 1.2%   | 1.2%       |                   | 1.2%             | 1.2%  |
| 2011-2021                                                                                                                                                             | 0.9%   | 0.9%       |                   | 0.9%             | 0.9%  |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis  
FAA Aerospace Forecasts, Fiscal Years 2002-2013, U.S. DOT

rebound as strongly as the rest of the country. Table 3.4-5 indicates that GMIA's share of total U.S. general aviation activity has declined steadily since 1990. The forecast assumes that this decline will level off at 0.08 percent of the U.S. activity throughout the forecast period. This results in a level of activity that does not rebound to the 2000 level by the end of the 2021 forecast period. Activity declines through 2006 as the share continues down from 0.09 percent in 2001 to 0.08 percent. After 2006, there is slight growth, 1.2 percent annually through 2011, and 0.9 percent per year through 2021.

GMIA general aviation operations represent a small percentage of general aviation activity in southeastern Wisconsin. **Table 3.4-6** presents FAA reports of

general aviation operations at seven area airports around GMIA, 2000 actuals and FAA Terminal Area Forecasts (TAF) for 2015. GMIA general aviation operations represented 8.2 percent of the area's general aviation operations in 2000, and is forecast to represent 6.7 percent in 2015. Only Hartford Municipal Airport has a smaller share of area activity. If a policy decision were to dictate that GMIA capacity could no longer accommodate general aviation activity, only 6.7 percent of the area's general aviation operations would have to be redistributed among other facilities.

**TABLE 3.4-6**

***General Mitchell International Airport***

**MILWAUKEE AND GMIA AREA GENERAL AVIATION OPERATIONS**

| <u>Airport</u>                         | <u>Code</u> | <u>City</u> | <u>GA Operations</u>          |                               | <u>Share of Area Operations</u> |                               |
|----------------------------------------|-------------|-------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|
|                                        |             |             | <u>Actuals</u><br><u>2000</u> | <u>FAA TAF</u><br><u>2015</u> | <u>Actuals</u><br><u>2000</u>   | <u>FAA TAF</u><br><u>2015</u> |
| West Bend Municipal Airport            | ETB         | West Bend   | 51,300                        | 51,300                        | 10.6%                           | 9.3%                          |
| Hartford Municipal Airport             | HXF         | Hartford    | 15,500                        | 15,500                        | 3.2%                            | 2.8%                          |
| Waukesha County Airport/Crites Field   | UES         | Waukesha    | 93,828                        | 134,622                       | 19.4%                           | 24.4%                         |
| Capitol Airport - Brookfield           | 02C         | Brookfield  | 53,646                        | 52,590                        | 11.1%                           | 9.5%                          |
| Lawrence J. Timmerman Field            | MWC         | Milwaukee   | 79,379                        | 89,873                        | 16.4%                           | 16.3%                         |
| Kenosha Regional Airport               | ENW         | Kenosha     | 92,789                        | 113,566                       | 19.2%                           | 20.6%                         |
| John H. Batten Field                   | RAC         | Racine      | 57,460                        | 57,460                        | 11.9%                           | 10.4%                         |
| General Mitchell International Airport | MKE         | Milwaukee   | <u>39,695</u>                 | <u>36,841</u> *               | <u>8.2%</u>                     | <u>6.7%</u> *                 |
| Total                                  |             |             | 483,597                       | 551,752                       | 100.0%                          | 100.0%                        |

Source: FAA Terminal Area Forecasts (TAF) for all airports except GMIA.

\* GMIA Master Plan Forecast

**Table 3.4-7** presents the fleet mix forecast for general aviation activity at GMIA. Currently, two-engine jet aircraft dominate the mix at GMIA. This dominance will increase throughout the forecast period. The FAA projects that the size of the U.S. fleet in this category will grow significantly and that utilization of this aircraft type will increase. Some of this growth is driven by increasing trends toward fractional ownership. The presence of piston aircraft in the fleet mix is expected to decline from 46.7 percent in 2002 to 34.7 percent by 2021. The piston fleet in the U.S. is not growing as fast as other equipment types,



and surveys indicate that utilization of these aircraft is declining. The same is true for the use of turboprop aircraft.

**TABLE 3.4-7**

**General Mitchell International Airport**

**GENERAL AVIATION FLEET MIX**

| Equipment<br>Type              | Departures<br>(Average Day of the Peak) Month |             |             |             | Distribution by Equipment Type |             |             |             |
|--------------------------------|-----------------------------------------------|-------------|-------------|-------------|--------------------------------|-------------|-------------|-------------|
|                                | <u>2002</u>                                   | <u>2006</u> | <u>2011</u> | <u>2021</u> | <u>2002</u>                    | <u>2006</u> | <u>2011</u> | <u>2021</u> |
| Single Engine Piston           | 12                                            | 11          | 11          | 11          | 21.7%                          | 20.6%       | 19.2%       | 16.4%       |
| Twin Engine Piston             | 14                                            | 13          | 13          | 12          | 25.0%                          | 23.6%       | 21.8%       | 18.3%       |
| Single Engine<br>Jet/Turboprop | 0                                             | 0           | 0           | 0           | 0.7%                           | 0.6%        | 0.6%        | 0.5%        |
| Twin Engine<br>Jet/Turboprop   | 7                                             | 7           | 7           | 6           | 13.1%                          | 12.5%       | 11.7%       | 10.0%       |
| Twin Engine Jet                | 21                                            | 23          | 26          | 34          | 38.2%                          | 41.2%       | 45.1%       | 52.9%       |
| Three Engine Jet               | <u>1</u>                                      | <u>1</u>    | <u>1</u>    | <u>1</u>    | <u>1.3%</u>                    | <u>1.4%</u> | <u>1.6%</u> | <u>1.9%</u> |
| Total                          | 55                                            | 55          | 59          | 64          | 100.0%                         | 100.0%      | 100.0%      | 100.0%      |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

### **3.4.4 Military Operations and Fleet Mix**

Military operations and fleet mix are presented in **Table 3.4-8**. Operations have fluctuated, declining 1996 through 1998, increasing slightly, then declining significantly from 1999 to 2000, and growing again in 2001. Military operations were forecast to be the average annual operations experienced 1996 through 2000. It was felt that 2001 may be an aberration due to activities surrounding September 11. Historically, all of the military operations have been itinerant operations. The military activity tends to occur on aircraft such as the C-130 and the KC-135.

| <b>TABLE 3.4-8</b>                            |                   |                  |               |
|-----------------------------------------------|-------------------|------------------|---------------|
| <b>General Mitchell International Airport</b> |                   |                  |               |
| <b>MILITARY OPERATIONS AND FLEET MIX</b>      |                   |                  |               |
| <u>Year</u>                                   | <u>Operations</u> | <u>Fleet Mix</u> |               |
|                                               |                   | <u>C-130</u>     | <u>KC-135</u> |
| 1996                                          | 5,629             |                  |               |
| 1997                                          | 5,187             |                  |               |
| 1998                                          | 5,030             |                  |               |
| 1999                                          | 5,183             |                  |               |
| 2000                                          | 4,223             |                  |               |
| 2001                                          | 4,885             |                  |               |
| <b>Forecasts</b>                              |                   |                  |               |
| 2006                                          | 5,050             | 62.5%            | 37.5%         |
| 2011                                          | 5,050             | 62.5%            | 37.5%         |
| 2021                                          | 5,050             | 62.5%            | 37.5%         |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

### **3.4.5 Other Air Taxi Operations and Fleet Mix**

Records submitted by operators at the Airport and those maintained by the tower on operations have different definitions of category of operation. For example, a large cargo operator such as Fed Ex would be included in the Air Carrier category by the tower, and in the Cargo category by the Airport. A small cargo carrier would be classified as Air Taxi by the tower, but as Cargo by the Airport. The tower classifies the operations of Skyway as Air Taxi, but the commuter operations of American Eagle are classified as Air Carrier.

In order to account for all of the operations reported by the tower, it is necessary to estimate a number of “Other Air Taxi” operations. These operations are estimated to have accounted for 5.7 percent of total operations over the last few years. Therefore, the sum of previously estimated operations is increased by this amount to insure that all operations are taken into account. These operations are assumed to have a fleet mix distribution similar to general aviation operations. The projection of other air taxi operations is presented in **Table 3.4-9**.

| <p align="center"><b>TABLE 3.4-9</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>OTHER AIR TAXI OPERATIONS</b></p> |                   |                     |                        |                                |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------|------------------------|--------------------------------|-------|-------|-------|
| Year                                                                                                                                                                | Other<br>Air Taxi | Total<br>Operations | Other as %<br>of Total | Equipment<br>Type              | 2006  | 2011  | 2021  |
| 1996                                                                                                                                                                | 6,558             | 200,963             | 3.3%                   | Single Engine<br>Piston        | 20.6% | 19.2% | 16.4% |
| 1997                                                                                                                                                                | 10,101            | 212,609             | 4.8%                   | Twin Engine<br>Piston          | 23.6% | 21.8% | 18.3% |
| 1998                                                                                                                                                                | 11,790            | 219,087             | 5.4%                   | Single Engine<br>Jet/Turboprop | 0.6%  | 0.6%  | 0.5%  |
| 1999                                                                                                                                                                | 12,827            | 221,866             | 5.8%                   | Twin Engine<br>Jet/Turboprop   | 12.5% | 11.7% | 10.0% |
| 2000                                                                                                                                                                | 12,803            | 221,855             | 5.8%                   | Twin Engine Jet                | 41.2% | 45.1% | 52.9% |
| 2001                                                                                                                                                                | 12,023            | 211,512             | 5.7%                   | Three Engine Jet               | 1.4%  | 1.6%  | 1.9%  |
| Forecasts                                                                                                                                                           |                   |                     |                        |                                |       |       |       |
| 2006                                                                                                                                                                | 13,796            | 243,730             | 5.7%                   |                                |       |       |       |
| 2011                                                                                                                                                                | 15,087            | 266,529             | 5.7%                   |                                |       |       |       |
| 2021                                                                                                                                                                | 18,366            | 324,460             | 5.7%                   |                                |       |       |       |
| Average Annual Growth Rates                                                                                                                                         |                   |                     |                        |                                |       |       |       |
| 1996-2001                                                                                                                                                           | 12.9%             | 1.0%                |                        |                                |       |       |       |
| 2001-2006                                                                                                                                                           | 2.8%              | 2.9%                |                        |                                |       |       |       |
| 2006-2011                                                                                                                                                           | 1.8%              | 1.8%                |                        |                                |       |       |       |
| 2011-2021                                                                                                                                                           | 2.0%              | 2.0%                |                        |                                |       |       |       |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

### 3.4.6 Summary of Operations and Fleet Mix

The summary of operations is presented in **Table 3.4-10**, and graphically in **Exhibit 3.4-1**. Total operations increase at 2.9 percent annually 2001 through 2006. Commuter operations are the largest contributor to this growth. These operations increase from 36.9 percent of total operations in 2001 to 38.6 percent in 2021. While passenger operations show strong growth through 2006, as they rebound from reduced activity in 2001, cargo and general aviation operations do not exhibit this strong rebound. Cargo growth is slow over that period as carriers work to improve the pounds per departure carried to get it to late 1990s levels. General aviation continues its decline through 2006, and rebounds somewhat thereafter.

The fleet mix at the Airport for the forecast period is presented in **Table 3.4-11**. The Boeing 717, flown by Midwest Express and AirTran, will generate the highest share of operations, 15.7 percent, by 2021. Twin-engine jets will conduct 9.4 percent of total operations, these being in the general aviation category. Aging aircraft such as the Boeing 727, DC-8 and DC-9 will be phased out of the fleet at GMIA over the forecast period. Regional jets will grow from an estimated 24 percent of total GMIA operations in 2002 to 39 percent in 2021.

### 3.5 PEAK HOUR PROJECTIONS

Peak activity for passengers and operations are presented in this section. These peaks will vary for different elements of activity at the Airport, such as passenger carriers, cargo activity, and general aviation operations. Each element of activity is discussed in the following sections.

| <b>TABLE 3.4-10</b>                           |           |          |         |        |          |          |          |         |
|-----------------------------------------------|-----------|----------|---------|--------|----------|----------|----------|---------|
| <b>General Mitchell International Airport</b> |           |          |         |        |          |          |          |         |
| <b>AIRCRAFT OPERATIONS SUMMARY</b>            |           |          |         |        |          |          |          |         |
| Year                                          | Passenger |          |         | Cargo  | General  |          | Other    |         |
|                                               | Major     | Commuter | Charter |        | Aviation | Military | Air Taxi | Total   |
| 1996                                          | 66,710    | 57,764   | 2,668   | 13,298 | 48,336   | 5,629    | 6,558    | 200,963 |
| 1997                                          | 65,938    | 62,786   | 2,988   | 16,030 | 49,579   | 5,187    | 10,101   | 212,609 |
| 1998                                          | 66,532    | 67,628   | 2,496   | 16,802 | 48,809   | 5,030    | 11,790   | 219,087 |
| 1999                                          | 69,574    | 69,332   | 2,762   | 16,596 | 45,592   | 5,183    | 12,827   | 221,866 |
| 2000                                          | 69,942    | 75,842   | 1,990   | 17,360 | 39,695   | 4,223    | 12,803   | 221,855 |
| 2001                                          | 63,520    | 77,982   | 1,560   | 17,022 | 34,520   | 4,885    | 12,023   | 211,512 |
| <b>Forecasts</b>                              |           |          |         |        |          |          |          |         |
| 2006                                          | 73,054    | 98,786   | 2,067   | 17,597 | 33,379   | 5,050    | 13,796   | 243,730 |
| 2011                                          | 82,510    | 105,687  | 2,260   | 20,439 | 35,495   | 5,050    | 15,087   | 266,529 |
| 2021                                          | 104,919   | 125,183  | 2,741   | 29,245 | 38,956   | 5,050    | 18,366   | 324,460 |
| <b>Average Annual Growth Rates</b>            |           |          |         |        |          |          |          |         |
| 1996-2001                                     | (1.0)%    | 6.2%     | (10.2)% | 5.1%   | (6.5)%   | (2.8)%   | 12.9%    | 1.0%    |
| 2001-2006                                     | 2.8%      | 4.8%     | 5.8%    | 0.7%   | (0.7)%   | 0.7%     | 2.8%     | 2.9%    |
| 2006-2011                                     | 2.5%      | 1.4%     | 1.8%    | 3.0%   | 1.2%     | 0.0%     | 1.8%     | 1.8%    |
| 2011-2021                                     | 2.4%      | 1.7%     | 1.9%    | 3.6%   | 0.9%     | 0.0%     | 2.0%     | 2.0%    |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

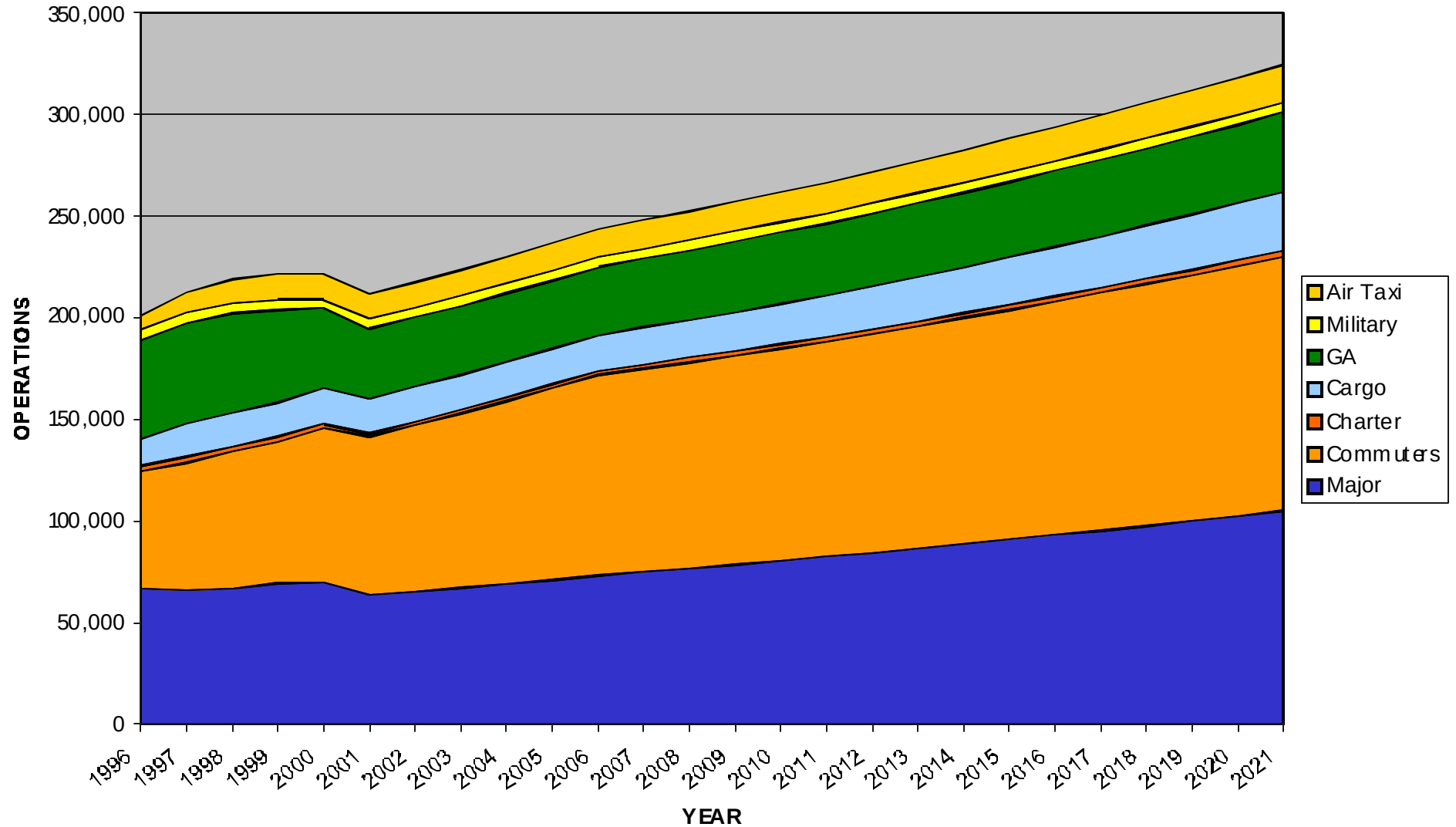


TABLE 3.4-11

## General Mitchell International Airport

## AIRCRAFT FLEET MIX SUMMARY

| Equipment Type          | Annual Operations |         |         |         | Distribution by Equipment Type |        |        |        |
|-------------------------|-------------------|---------|---------|---------|--------------------------------|--------|--------|--------|
|                         | 2002              | 2006    | 2011    | 2021    | 2002                           | 2006   | 2011   | 2021   |
| BE1                     | 29,855            | 18,857  | 12,604  | 12,586  | 14.9%                          | 7.7%   | 4.7%   | 3.9%   |
| FRJ                     | 20,456            | 25,842  | 25,908  | 25,871  | 10.2%                          | 10.6%  | 9.7%   | 8.0%   |
| SF3                     | 3,870             | 4,889   | 4,901   | 0       | 1.9%                           | 2.0%   | 1.8%   | 0.0%   |
| ER3                     | 2,764             | 10,476  | 14,004  | 20,278  | 1.4%                           | 4.3%   | 5.3%   | 6.2%   |
| ERD                     | 2,764             | 9,778   | 12,604  | 16,781  | 1.4%                           | 4.0%   | 4.7%   | 5.2%   |
| ERJ                     | 4,423             | 6,286   | 7,702   | 15,383  | 2.2%                           | 2.6%   | 2.9%   | 4.7%   |
| CRJ                     | 9,952             | 13,968  | 21,707  | 28,668  | 5.0%                           | 5.7%   | 8.1%   | 8.8%   |
| ER4                     | 3,870             | 11,873  | 14,704  | 19,578  | 1.9%                           | 4.9%   | 5.5%   | 6.0%   |
| DC9                     | 4,423             | 0       | 0       | 0       | 2.2%                           | 0.0%   | 0.0%   | 0.0%   |
| D9S                     | 16,586            | 2,095   | 2,101   | 2,098   | 8.3%                           | 0.9%   | 0.8%   | 0.6%   |
| 146                     | 4,423             | 4,191   | 0       | 0       | 2.2%                           | 1.7%   | 0.0%   | 0.0%   |
| 319                     | 1,106             | 1,397   | 3,501   | 6,293   | 0.6%                           | 0.6%   | 1.3%   | 1.9%   |
| D95                     | 2,211             | 2,794   | 2,801   | 2,797   | 1.1%                           | 1.1%   | 1.1%   | 0.9%   |
| 733                     | 2,764             | 3,492   | 3,501   | 4,195   | 1.4%                           | 1.4%   | 1.3%   | 1.3%   |
| 72S                     | 1,106             | 1,397   | 1,400   | 1,398   | 0.6%                           | 0.6%   | 0.5%   | 0.4%   |
| M80                     | 12,163            | 15,365  | 15,405  | 15,383  | 6.1%                           | 6.3%   | 5.8%   | 4.7%   |
| 734                     | 553               | 698     | 700     | 1,398   | 0.3%                           | 0.3%   | 0.3%   | 0.4%   |
| 320                     | 1,106             | 1,397   | 1,400   | 1,398   | 0.6%                           | 0.6%   | 0.5%   | 0.4%   |
| 757                     | 2,211             | 2,794   | 2,801   | 2,797   | 1.1%                           | 1.1%   | 1.1%   | 0.9%   |
| 717                     | 5,529             | 34,223  | 38,512  | 51,044  | 2.8%                           | 14.0%  | 14.4%  | 15.7%  |
| 73G                     | 1,659             | 2,095   | 4,201   | 4,895   | 0.8%                           | 0.9%   | 1.6%   | 1.5%   |
| Single Engine Piston    | 9,922             | 9,732   | 9,723   | 9,379   | 4.9%                           | 4.0%   | 3.6%   | 2.9%   |
| Twin Engine Piston      | 11,393            | 11,117  | 11,033  | 10,504  | 5.7%                           | 4.6%   | 4.1%   | 3.2%   |
| Single Engine Turboprop | 305               | 300     | 301     | 292     | 0.2%                           | 0.1%   | 0.1%   | 0.1%   |
| Twin Engine Turboprop   | 5,992             | 5,894   | 5,909   | 5,738   | 3.0%                           | 2.4%   | 2.2%   | 1.8%   |
| Twin Engine Jet         | 17,439            | 19,452  | 22,818  | 30,347  | 8.7%                           | 8.0%   | 8.6%   | 9.4%   |
| Three Engine Jet        | 610               | 680     | 798     | 1,062   | 0.3%                           | 0.3%   | 0.3%   | 0.3%   |
| A300                    | 925               | 1,955   | 3,297   | 5,849   | 0.5%                           | 0.8%   | 1.2%   | 1.8%   |
| B-757                   | 0                 | 652     | 1,978   | 3,899   | 0.0%                           | 0.3%   | 0.7%   | 1.2%   |
| B-727-200               | 2,544             | 1,955   | 0       | 0       | 1.3%                           | 0.8%   | 0.0%   | 0.0%   |
| DC-8                    | 694               | 0       | 0       | 0       | 0.3%                           | 0.0%   | 0.0%   | 0.0%   |
| B-727-100               | 535               | 0       | 0       | 0       | 0.3%                           | 0.0%   | 0.0%   | 0.0%   |
| DC-9                    | 559               | 652     | 0       | 0       | 0.3%                           | 0.3%   | 0.0%   | 0.0%   |
| 330-200                 | 467               | 652     | 659     | 1,300   | 0.2%                           | 0.3%   | 0.2%   | 0.4%   |
| SA-227-AT               | 632               | 652     | 1,319   | 1,300   | 0.3%                           | 0.3%   | 0.5%   | 0.4%   |
| C-208                   | 4,536             | 5,214   | 6,593   | 7,799   | 2.3%                           | 2.1%   | 2.5%   | 2.4%   |
| C-402                   | 406               | 652     | 659     | 1,950   | 0.2%                           | 0.3%   | 0.2%   | 0.6%   |
| PA-31                   | 705               | 652     | 1,319   | 1,950   | 0.4%                           | 0.3%   | 0.5%   | 0.6%   |
| CE-310R                 | 2,333             | 2,607   | 2,637   | 2,600   | 1.2%                           | 1.1%   | 1.0%   | 0.8%   |
| BE-58                   | 1,863             | 1,955   | 1,978   | 2,600   | 0.9%                           | 0.8%   | 0.7%   | 0.8%   |
| C-130                   | 3,157             | 3,157   | 3,157   | 3,157   | 1.6%                           | 1.3%   | 1.2%   | 1.0%   |
| KC-135                  | 1,894             | 1,894   | 1,894   | 1,894   | 0.9%                           | 0.8%   | 0.7%   | 0.6%   |
| Total                   | 200,706           | 243,730 | 266,529 | 324,460 | 100.0%                         | 100.0% | 100.0% | 100.0% |

Source: General Mitchell International Airport  
PB Aviation, Inc. Analysis

### 3.5.1 Passenger Peaking

In planning airport facilities it is important to identify the times of peak activity and the levels of activity that occur during those time frames. Facilities are designed to accommodate an average day during the peak month, rather than the absolute peak level of activity. Passenger activity on the average day of the peak month, and during the peak hour of activity on that day, is presented in **Table 3.5-1**.

| <p align="center"><b>TABLE 3.5-1</b></p> <p align="center"><b>General Mitchell International Airport</b></p> <p align="center"><b>PASSENGER PEAKING</b></p> |                               |             |             |             |             |             |             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                                                                                                                                             | Average Day of the Peak Month |             |             | Peak Hour   |             |             | Peak Hour   |
|                                                                                                                                                             | <u>2006</u>                   | <u>2011</u> | <u>2021</u> | <u>2006</u> | <u>2011</u> | <u>2021</u> | (All Years) |
| Enplanements                                                                                                                                                | 11,419                        | 13,840      | 20,063      | 1,901       | 2,045       | 2,382       | 0700-0759   |
| Deplanements                                                                                                                                                | 11,419                        | 13,840      | 20,063      | 1,930       | 2,171       | 2,689       | 2000-2059   |
| Connections (EP)                                                                                                                                            | 1,104                         | 1,668       | 3,157       | 184         | 247         | 375         | 0700-0759   |
| Connections (DP)                                                                                                                                            | 1,104                         | 1,668       | 3,157       | 186         | 262         | 423         | 2000-2059   |

Source: PB Aviation, Inc. Analysis

March has historically been the month of peak passenger activity at GMIA. Over the past several years, just under 9.7 percent of GMIA passengers have traveled in March. This percentage was applied to the annual forecasts to yield the expected passenger volume in March. The March total was divided by 31 to estimate the passenger volume on the average day of the peak month. This process was also followed to estimate connecting passengers on the average day of the peak month.

The peak hour of passenger activity is assumed to coincide with the peak hour of seats arriving and seats departing. The peak hour for departing seats (and enplaning passengers) is 7:00 AM to 7:59 AM. The peak hour for arriving seats (and deplaning passengers) is 8:00 PM to 8:59 PM. These seats were assumed to be filled at 25 percent above the average load factor because this is a period of

peak activity. The load factor at GMIA from 1997 through 2000 averaged approximately 61.5 percent, so the load factor used to determine peak passengers was 77 percent. This load factor was applied to the departing seats calculated from the schedules.

### **3.5.2 Operations Peaking**

Various types of activity at the Airport exhibit different peaking characteristics. Passenger and cargo activity, for example, peak in different months and at different times of the day. It is important to identify each of the peaks individually, as each activity element requires its unique set of facilities, as well as some shared facilities.

The peaks for all activity elements are summarized in **Table 3.5-2**, and each element is discussed further in the following sections. It is important to note that operations in the peak hour or on the average day of the peak month are not additive across different activity elements. This is because the peak months differ among elements, and the peak hours differ even within elements. For example, the peak hour for passenger carrier arrivals is 8:00 PM to 8:59 PM. The peak hour for passenger carrier departures is 7:00 AM to 7:59 AM. However, the hour in 2002 with the highest total passenger operations is 3:00 PM to 3:59 PM.

#### **3.5.2.1 Passenger Carrier Operations Peaking**

Passenger operations peak in March, as do passenger enplanements. On the average day in March, forecast operations range from 498 in 2006 to 666 by 2021. The hourly distribution of activity for passenger operations is presented in **Table 3.5-3**. Throughout the forecast period arrivals peak in the 8:00 PM to 8:59 PM hour, and departures peak in the 7:00 AM to 7:59 AM hour. However, total passenger operations peak in the 3:00 PM to 3:59 PM hour. Peaking percentages range from 12 percent to 14 percent for the forecast period.

This pattern of departures peaking in the early morning and arrivals peaking in the evening implies a business type of travel, out in the morning, back in the evening. Even if a traveler is not completing a round



| TABLE 3.5-2                            |            |            |                        |             |             |             |             |             |
|----------------------------------------|------------|------------|------------------------|-------------|-------------|-------------|-------------|-------------|
| General Mitchell International Airport |            |            |                        |             |             |             |             |             |
| OPERATIONS PEAKING                     |            |            |                        |             |             |             |             |             |
|                                        |            | Peak Month | Average Day Peak Month |             |             | Peak Hour   |             |             |
|                                        |            |            | <u>2006</u>            | <u>2011</u> | <u>2021</u> | <u>2006</u> | <u>2011</u> | <u>2021</u> |
| Passenger                              |            | March      |                        |             |             |             |             |             |
|                                        | Arrivals   |            | 249                    | 272         | 333         | 30          | 37          | 48          |
|                                        | Departures |            | <u>249</u>             | <u>272</u>  | <u>333</u>  | 28          | 33          | 42          |
|                                        | Total      |            | 498                    | 545         | 666         |             |             |             |
| Cargo                                  |            | Varies     |                        |             |             |             |             |             |
|                                        | Arrivals   |            | 27                     | 31          | 45          | 7           | 8           | 12          |
|                                        | Departures |            | <u>27</u>              | <u>31</u>   | <u>45</u>   | 12          | 14          | 22          |
|                                        | Total      |            | 54                     | 63          | 90          |             |             |             |
| General Aviation                       |            | July       |                        |             |             |             |             |             |
|                                        | Arrivals   |            | 55                     | 59          | 64          | 6           | 7           | 7           |
|                                        | Departures |            | <u>55</u>              | <u>59</u>   | <u>64</u>   | 7           | 7           | 8           |
|                                        | Total      |            | 110                    | 118         | 128         |             |             |             |
| Military                               |            | Varies     |                        |             |             |             |             |             |
|                                        | Arrivals   |            | 8                      | 8           | 8           | 1           | 1           | 1           |
|                                        | Departures |            | <u>8</u>               | <u>8</u>    | <u>8</u>    | 1           | 1           | 1           |
|                                        | Total      |            | 16                     | 16          | 16          |             |             |             |
| Other Air Taxi                         |            | July       |                        |             |             |             |             |             |
|                                        | Arrivals   |            | 23                     | 25          | 30          | 3           | 3           | 4           |
|                                        | Departures |            | <u>23</u>              | <u>25</u>   | <u>30</u>   | 4           | 5           | 5           |
|                                        | Total      |            | 46                     | 50          | 60          |             |             |             |

Note: The peaks for the various types of operations as shown here are not additive. As the table indicates, different activity elements peak in different months. Therefore, a sum across monthly peaks is not valid. It is also not valid to sum arrivals and departures for hourly peaks, as the peak arrival hour frequently differs from the peak departure hour.

Source: PB Aviation, Inc. Analysis

trip in a single day, this pattern of travel indicates that the GMIA passengers are looking to spend a full day at the other end of the trip rather than in Milwaukee.

### 3.5.2.2 Cargo Carrier Operations Peaking

Over the past several years, cargo activity has peaked in a variety of different months; November, December, July, twice in August, and in October. However, whatever the peak month has been, it has represented an average of 9.5 percent of annual all-cargo operations. As seen in Table 3.5-2, cargo operations on the average day of the peak month are expected to grow from 54 in 2006 to 90 in 2021.

TABLE 3.5-3

## General Mitchell International Airport

## 24-HOUR PEAKING ACTIVITY PASSENGER OPERATIONS

| Hour         | 2006  |       |       | 2011  |       |       | 2021  |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              | Arr.  | Dept  | Total | Arr.  | Dept  | Total | Arr.  | Dept  | Total |
| 0000 - 0059  |       |       |       |       |       |       |       |       |       |
| 0100 - 0159  |       |       |       |       |       |       |       |       |       |
| 0200 - 0259  |       |       |       |       |       |       |       |       |       |
| 0300 - 0359  |       |       |       |       |       |       |       |       |       |
| 0400 - 0459  |       |       |       |       |       |       |       |       |       |
| 0500 - 0559  | 1     | 9     | 10    | 1     | 9     | 10    | 1     | 8     | 9     |
| 0600 - 0659  | 7     | 12    | 19    | 8     | 12    | 20    | 11    | 10    | 21    |
| 0700 - 0759  | 12    | 30    | 42    | 14    | 33    | 47    | 15    | 42    | 57    |
| 0800 - 0859  | 16    | 20    | 36    | 17    | 20    | 37    | 19    | 23    | 42    |
| 0900 - 0959  | 12    | 19    | 31    | 12    | 20    | 32    | 17    | 21    | 38    |
| 1000 - 1059  | 11    | 11    | 22    | 12    | 11    | 23    | 18    | 17    | 35    |
| 1100 - 1159  | 17    | 6     | 23    | 18    | 7     | 25    | 23    | 12    | 35    |
| 1200 - 1259  | 19    | 17    | 36    | 22    | 18    | 40    | 27    | 23    | 50    |
| 1300 - 1359  | 11    | 17    | 28    | 13    | 19    | 32    | 17    | 24    | 41    |
| 1400 - 1459  | 19    | 11    | 30    | 21    | 12    | 33    | 26    | 18    | 44    |
| 1500 - 1559  | 17    | 26    | 43    | 20    | 28    | 48    | 21    | 33    | 54    |
| 1600 - 1659  | 19    | 18    | 37    | 20    | 20    | 40    | 26    | 23    | 49    |
| 1700 - 1759  | 12    | 15    | 27    | 13    | 18    | 31    | 17    | 23    | 40    |
| 1800 - 1859  | 16    | 11    | 27    | 16    | 14    | 30    | 21    | 19    | 40    |
| 1900 - 1959  | 8     | 13    | 21    | 8     | 14    | 22    | 10    | 16    | 26    |
| 2000 - 2059  | 32    |       | 32    | 37    | 3     | 40    | 48    | 4     | 52    |
| 2100 - 2159  | 12    | 14    | 26    | 12    | 14    | 26    | 9     | 17    | 26    |
| 2200 - 2259  | 6     |       | 6     | 6     |       | 6     | 5     |       | 5     |
| 2300 - 2359  | 2     |       | 2     | 2     |       | 2     | 2     |       | 2     |
| Total        | 249   | 249   | 498   | 272   | 272   | 544   | 333   | 333   | 666   |
| Peak Hour    | 32    | 30    | 43    | 37    | 33    | 48    | 48    | 42    | 57    |
| Peak Percent | 12.9% | 12.0% | 8.6%  | 13.6% | 12.1% | 8.8%  | 14.4% | 12.6% | 8.6%  |

Source: PB Aviation Inc. Analysis

The hourly distribution of cargo activity is presented in **Table 3.5-4**. Cargo flights depart to various cargo hubs and distribution centers in the late evening, from 9:30 PM through midnight. The carriers return in the early morning to disburse cargo for early-in-the-day delivery. The peak arrival hour for cargo operations is 5:00 AM to 5:59 AM, and the peak departure hours are both the 10:00PM to 10:59 PM and 11:00 PM to 11:59 PM hours. Over 25 percent of cargo arrivals occur during the peak, and 45-50 percent of cargo departures occur during the peak hour. Occasionally, unscheduled cargo operations occur during the day. Approximately 10 percent of the cargo operations are of the unscheduled variety.

### **3.5.2.3 General Aviation Operations Peaking**

**Table 3.5-5** indicates that general aviation operations at their peak grow from 110 operations in 2006 to 128 in 2010. They generally follow the pattern of passenger operations. The peak departure hour is 7:00 AM to 7:59 AM and the peak arrival hour is 8:00 PM to 8:59 PM. Their peaking percentage ranges from 10 to 13 percent over the forecast period.

### **3.5.2.4 Military Operations Peaking**

Military operations are erratic and demonstrate no peaking patterns. Throughout the forecast period it is assumed that they are scattered throughout the day. This is presented in **Table 3.5-6**.

### **3.5.2.5 Other Air Taxi Operations Peaking**

Hourly air taxi operations are presented in **Table 3.5-7**. Arrivals peak in the 8:00PM to 8:59PM hour, and departures peak in the 3:00PM to 3:59PM hour. Peaking percentages range from 13 percent to 20 percent. Peaking percentages seem high because there are so few flights. Moving a single flight into or out of a particular hour swings the peaking percentages widely.

### **3.5.2.7 Total Peaking**

As discussed earlier, and as noted at the bottom of **Table 3.5-2**, the peaking activities of these elements are not additive because they occur in different months and at different times of the day. However, for planning purposes for the requirements shared by many of these activity elements (runways, airspace, tower support, etc.) it is useful to construct an hourly scenario for a total day indicating what the absolute peak level of activity would be were these activities to coincide. Such an accumulation is presented in **Table 3.5-8**, and graphically in **Exhibit 3.5-1**. The individual hourly arrivals and departures for each segment of Airport activity we summed in this table. This summary indicates that the peak arrival hour is 8:00 PM to 8:59 PM, and the peak departure hour is 7:00 AM to 7:59 AM. This is a pattern shared by the passenger and general aviation segments of Airport activity.

TABLE 3.5-4

## General Mitchell International Airport

## 24-HOUR PEAKING ACTIVITY CARGO OPERATIONS

| Hour         | 2006  |       |       | 2011  |       |       | 2021  |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              | Arr.  | Dept  | Total | Arr.  | Dept  | Total | Arr.  | Dept  | Total |
| 0000 - 0059  |       |       |       |       |       |       |       |       |       |
| 0100 - 0159  |       |       |       |       |       |       |       |       |       |
| 0200 - 0259  |       |       |       |       |       |       |       |       |       |
| 0300 - 0359  | 1     |       | 1     | 1     |       | 1     | 1     |       | 1     |
| 0400 - 0459  | 6     |       | 6     | 7     |       | 7     | 8     |       | 8     |
| 0500 - 0559  | 7     |       | 7     | 8     |       | 8     | 12    |       | 12    |
| 0600 - 0659  | 6     |       | 6     | 6     |       | 6     | 10    |       | 10    |
| 0700 - 0759  | 4     |       | 4     | 5     |       | 5     | 6     |       | 6     |
| 0800 - 0859  | 1     |       | 1     | 1     |       | 1     | 4     |       | 4     |
| 0900 - 0959  | 1     |       | 1     | 1     |       | 1     | 1     |       | 1     |
| 1000 - 1059  |       |       |       |       |       |       | 1     |       | 1     |
| 1100 - 1159  |       | 1     | 1     |       | 1     | 1     |       | 1     | 1     |
| 1200 - 1259  |       |       |       |       |       |       |       |       |       |
| 1300 - 1359  | 1     |       | 1     | 2     |       | 2     | 1     | 1     | 2     |
| 1400 - 1459  |       |       |       |       |       |       |       |       |       |
| 1500 - 1559  |       | 1     | 1     |       | 1     | 1     |       | 1     | 1     |
| 1600 - 1659  |       |       |       |       | 1     | 1     |       |       |       |
| 1700 - 1759  |       |       |       |       |       |       | 1     |       | 1     |
| 1800 - 1859  |       |       |       |       |       |       |       |       |       |
| 1900 - 1959  |       |       |       |       |       |       |       | 1     | 1     |
| 2000 - 2059  |       |       |       |       |       |       |       |       |       |
| 2100 - 2159  |       | 1     | 1     |       | 1     | 1     |       | 3     | 3     |
| 2200 - 2259  |       | 12    | 12    |       | 14    | 14    |       | 16    | 16    |
| 2300 - 2359  |       | 12    | 12    |       | 13    | 13    |       | 22    | 22    |
| Total        | 27    | 27    | 54    | 31    | 31    | 62    | 45    | 45    | 90    |
| Peak Hour    | 7     | 12    | 12    | 8     | 14    | 14    | 12    | 22    | 22    |
| Peak Percent | 25.9% | 44.4% | 22.2% | 25.8% | 45.2% | 22.6% | 26.7% | 48.9% | 24.4% |

Source: PB Aviation Inc. Analysis

TABLE 3.5-5

## General Mitchell International Airport

## 24-HOUR PEAKING ACTIVITY GENERAL AVIATION OPERATIONS

| Hour         | 2006  |       |       | 2011  |       |       | 2021  |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              | Arr.  | Dept  | Total | Arr.  | Dept  | Total | Arr.  | Dept  | Total |
| 0000 - 0059  |       |       |       |       |       |       |       |       |       |
| 0100 - 0159  |       |       |       |       |       |       |       |       |       |
| 0200 - 0259  |       |       |       |       |       |       |       |       |       |
| 0300 - 0359  |       |       |       |       |       |       |       |       |       |
| 0400 - 0459  |       |       |       |       |       |       |       |       |       |
| 0500 - 0559  |       | 2     | 2     | 1     | 2     | 3     | 1     | 2     | 3     |
| 0600 - 0659  | 1     | 3     | 4     | 1     | 3     | 4     | 2     | 3     | 5     |
| 0700 - 0759  | 3     | 7     | 10    | 4     | 7     | 11    | 4     | 8     | 12    |
| 0800 - 0859  | 3     | 5     | 8     | 3     | 5     | 8     | 3     | 5     | 8     |
| 0900 - 0959  | 3     | 4     | 7     | 3     | 4     | 7     | 3     | 4     | 7     |
| 1000 - 1059  | 2     | 2     | 4     | 2     | 3     | 5     | 3     | 3     | 6     |
| 1100 - 1159  | 4     | 1     | 5     | 4     | 2     | 6     | 4     | 2     | 6     |
| 1200 - 1259  | 4     | 4     | 8     | 5     | 4     | 9     | 6     | 4     | 10    |
| 1300 - 1359  | 3     | 4     | 7     | 3     | 5     | 8     | 3     | 5     | 8     |
| 1400 - 1459  | 5     | 3     | 8     | 5     | 3     | 8     | 6     | 3     | 9     |
| 1500 - 1559  | 3     | 6     | 9     | 3     | 6     | 9     | 4     | 7     | 11    |
| 1600 - 1659  | 4     | 4     | 8     | 4     | 4     | 8     | 4     | 4     | 8     |
| 1700 - 1759  | 2     | 4     | 6     | 2     | 4     | 6     | 2     | 4     | 6     |
| 1800 - 1859  | 4     | 2     | 6     | 4     | 2     | 6     | 4     | 3     | 7     |
| 1900 - 1959  | 2     | 2     | 4     | 2     | 2     | 4     | 2     | 3     | 5     |
| 2000 - 2059  | 6     |       | 6     | 7     |       | 7     | 7     |       | 7     |
| 2100 - 2159  | 3     | 1     | 4     | 3     | 2     | 5     | 3     | 3     | 6     |
| 2200 - 2259  | 2     |       | 2     | 2     |       | 2     | 2     |       | 2     |
| 2300 - 2359  | 1     | 1     | 2     | 1     | 1     | 2     | 1     | 1     | 2     |
| Total        | 55    | 55    | 110   | 59    | 59    | 118   | 64    | 64    | 128   |
| Peak Hour    | 6     | 7     | 10    | 7     | 7     | 11    | 7     | 8     | 12    |
| Peak Percent | 10.9% | 12.7% | 9.1%  | 11.9% | 11.9% | 9.3%  | 10.9% | 12.5% | 9.4%  |

Source: PB Aviation Inc. Analysis

TABLE 3.5-6

## General Mitchell International Airport

## 24-HOUR PEAKING ACTIVITY MILITARY OPERATIONS

| Hour         | 2006        |             |              | 2011        |             |              | 2021        |             |              |
|--------------|-------------|-------------|--------------|-------------|-------------|--------------|-------------|-------------|--------------|
|              | <u>Arr.</u> | <u>Dept</u> | <u>Total</u> | <u>Arr.</u> | <u>Dept</u> | <u>Total</u> | <u>Arr.</u> | <u>Dept</u> | <u>Total</u> |
| 0000 - 0059  |             |             |              |             |             |              |             |             |              |
| 0100 - 0159  |             |             |              |             |             |              |             |             |              |
| 0200 - 0259  |             |             |              |             |             |              |             |             |              |
| 0300 - 0359  |             |             |              |             |             |              |             |             |              |
| 0400 - 0459  |             |             |              |             |             |              |             |             |              |
| 0500 - 0559  |             |             |              |             |             |              |             |             |              |
| 0600 - 0659  |             |             |              |             |             |              |             |             |              |
| 0700 - 0759  |             |             |              |             |             |              |             |             |              |
| 0800 - 0859  | 1           |             | 1            | 1           |             | 1            | 1           |             | 1            |
| 0900 - 0959  |             |             |              |             |             |              |             |             |              |
| 1000 - 1059  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 1100 - 1159  |             |             |              |             |             |              |             |             |              |
| 1200 - 1259  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 1300 - 1359  |             |             |              |             |             |              |             |             |              |
| 1400 - 1459  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 1500 - 1559  |             |             |              |             |             |              |             |             |              |
| 1600 - 1659  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 1700 - 1759  |             |             |              |             |             |              |             |             |              |
| 1800 - 1859  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 1900 - 1959  |             |             |              |             |             |              |             |             |              |
| 2000 - 2059  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 2100 - 2159  |             |             |              |             |             |              |             |             |              |
| 2200 - 2259  | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| 2300 - 2359  |             | <u>1</u>    | <u>1</u>     |             | <u>1</u>    | <u>1</u>     |             | <u>1</u>    | <u>1</u>     |
| Total        | 8           | 8           | 16           | 8           | 8           | 16           | 8           | 8           | 16           |
| Peak Hour    | 1           | 1           | 2            | 1           | 1           | 2            | 1           | 1           | 2            |
| Peak Percent | 12.5%       | 12.5%       | 12.5%        | 12.5%       | 12.5%       | 12.5%        | 12.5%       | 12.5%       | 12.5%        |

Source: PB Aviation Inc. Analysis

TABLE 3.5-7

## General Mitchell International Airport

## 24-HOUR PEAKING ACTIVITY OTHER AIR TAXI OPERATIONS

| Hour         | 2006  |       |       | 2011  |       |       | 2021  |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              | Arr.  | Dept  | Total | Arr.  | Dept  | Total | Arr.  | Dept  | Total |
| 0000 - 0059  |       |       |       |       |       |       |       |       |       |
| 0100 - 0159  |       |       |       |       |       |       |       |       |       |
| 0200 - 0259  |       |       |       |       |       |       |       |       |       |
| 0300 - 0359  |       |       |       |       |       |       |       |       |       |
| 0400 - 0459  |       |       |       |       |       |       |       |       |       |
| 0500 - 0559  |       | 1     | 1     |       | 1     | 1     |       | 1     | 1     |
| 0600 - 0659  | 1     | 1     | 2     | 1     | 1     | 2     | 1     | 2     | 3     |
| 0700 - 0759  | 2     | 2     | 4     | 2     | 2     | 4     | 2     | 3     | 5     |
| 0800 - 0859  | 2     | 2     | 4     | 2     | 2     | 4     | 2     | 2     | 4     |
| 0900 - 0959  | 2     | 1     | 3     | 2     | 2     | 4     | 2     | 3     | 5     |
| 1000 - 1059  | 1     | 1     | 2     | 1     | 1     | 2     | 2     | 1     | 3     |
| 1100 - 1159  | 2     | 1     | 3     | 2     | 1     | 3     | 3     | 1     | 4     |
| 1200 - 1259  | 2     | 2     | 4     | 2     | 2     | 4     | 3     | 3     | 6     |
| 1300 - 1359  | 1     | 2     | 3     | 1     | 2     | 3     | 1     | 3     | 4     |
| 1400 - 1459  | 2     | 1     | 3     | 2     | 1     | 3     | 2     | 1     | 3     |
| 1500 - 1559  | 1     | 4     | 5     | 1     | 5     | 6     | 2     | 5     | 7     |
| 1600 - 1659  | 2     | 2     | 4     | 2     | 2     | 4     | 2     | 2     | 4     |
| 1700 - 1759  | 1     | 1     | 2     | 1     | 1     | 2     | 1     | 1     | 2     |
| 1800 - 1859  | 1     | 1     | 2     | 2     | 1     | 3     | 2     | 1     | 3     |
| 1900 - 1959  |       | 1     | 1     | 1     | 1     | 2     | 1     | 1     | 2     |
| 2000 - 2059  | 3     |       | 3     | 3     |       | 3     | 4     |       | 4     |
| 2100 - 2159  |       |       |       |       |       |       |       |       |       |
| 2200 - 2259  |       |       |       |       |       |       |       |       |       |
| 2300 - 2359  |       |       |       |       |       |       |       |       |       |
| Total        | 23    | 23    | 46    | 25    | 25    | 50    | 30    | 30    | 60    |
| Peak Hour    | 3     | 4     | 5     | 3     | 5     | 6     | 4     | 5     | 7     |
| Peak Percent | 13.0% | 17.4% | 10.9% | 12.0% | 20.0% | 12.0% | 13.3% | 16.7% | 11.7% |

Source: PB Aviation Inc. Analysis

### 3.6 OTHER GROWTH SCENARIOS

It is possible that some of the assumptions underlying this forecast will not come to pass as expected. If assumptions regarding socioeconomic growth in the area or in the United States are incorrect, activity may grow more quickly or more slowly than expected. Such changes would not necessarily change the character of the forecast, but merely the timing at which milestones are reached. However, there are two assumptions that affect the character of GMIA's evolution, and if those assumptions are incorrect, the character of the operations would be somewhat different. Those assumptions are:

- *The initiation and success of service by AirTran, a low fare carrier serving Florida destinations very popular among GMIA travelers*
- *Midwest Express/Skyway increase in connections at GMIA*

**Table 3.6-1** presents the contribution of these two assumptions to the base forecast over the planning period. AirTran enplanements are projected to contribute over eight percent of total enplanements from 2006 through 2021 while the incremental growth in connecting enplanements of Midwest Express and skyway increase from 2.6 percent of total enplanements in 2006 to 13.1 percent of total enplanements in 2021. The corresponding number of aircraft operations for each of these assumptions is also presented in Table 3.6-1. This activity would be at risk if AirTran's entrance into the Milwaukee market fails completely or if the percentage of passengers connecting through GMIA on Midwest Express and Skyway does not develop as projected.

### 3.7 SUMMARY

In summary, GMIA will continue to be a vibrant, growing base of aviation activity throughout the forecast period. Growth in domestic passenger traffic will come through the addition of carriers like AirTran, and the continued expansion of Midwest Express and Skyway. As these carriers expand, new markets will open and current ones will grow.



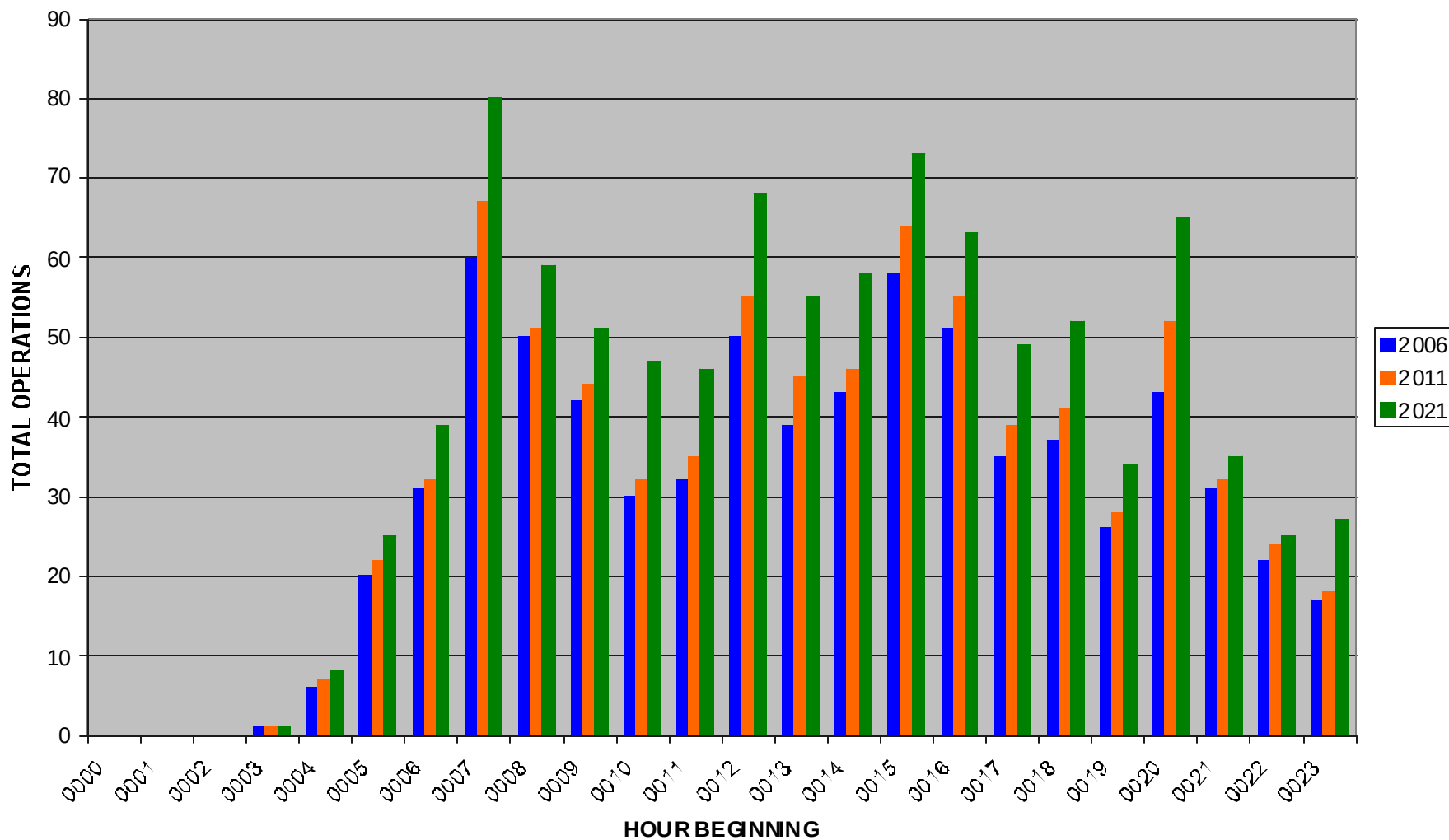
TABLE 3.5-8

## General Mitchell International Airport

24-HOUR PEAKING ACTIVITY  
SUMMARY OF ALL AIRPORT OPERATIONS

| Hour         | 2006  |       |       | 2011  |       |       | 2021  |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|              | Arr.  | Dept  | Total | Arr.  | Dept  | Total | Arr.  | Dept  | Total |
| 0000 - 0059  |       |       |       |       |       |       |       |       |       |
| 0100 - 0159  |       |       |       |       |       |       |       |       |       |
| 0200 - 0259  |       |       |       |       |       |       |       |       |       |
| 0300 - 0359  | 1     |       | 1     | 1     |       | 1     | 1     |       | 1     |
| 0400 - 0459  | 6     |       | 6     | 7     |       | 7     | 8     |       | 8     |
| 0500 - 0559  | 8     | 12    | 20    | 10    | 12    | 22    | 14    | 11    | 25    |
| 0600 - 0659  | 15    | 16    | 31    | 16    | 16    | 32    | 24    | 15    | 39    |
| 0700 - 0759  | 21    | 39    | 60    | 25    | 42    | 67    | 27    | 53    | 80    |
| 0800 - 0859  | 23    | 27    | 50    | 24    | 27    | 51    | 29    | 30    | 59    |
| 0900 - 0959  | 18    | 24    | 42    | 18    | 26    | 44    | 23    | 28    | 51    |
| 1000 - 1059  | 15    | 15    | 30    | 16    | 16    | 32    | 25    | 22    | 47    |
| 1100 - 1159  | 23    | 9     | 32    | 24    | 11    | 35    | 30    | 16    | 46    |
| 1200 - 1259  | 26    | 24    | 50    | 30    | 25    | 55    | 37    | 31    | 68    |
| 1300 - 1359  | 16    | 23    | 39    | 19    | 26    | 45    | 22    | 33    | 55    |
| 1400 - 1459  | 27    | 16    | 43    | 29    | 17    | 46    | 35    | 23    | 58    |
| 1500 - 1559  | 21    | 37    | 58    | 24    | 40    | 64    | 27    | 46    | 73    |
| 1600 - 1659  | 26    | 25    | 51    | 27    | 28    | 55    | 33    | 30    | 63    |
| 1700 - 1759  | 15    | 20    | 35    | 16    | 23    | 39    | 21    | 28    | 49    |
| 1800 - 1859  | 22    | 15    | 37    | 23    | 18    | 41    | 28    | 24    | 52    |
| 1900 - 1959  | 10    | 16    | 26    | 11    | 17    | 28    | 13    | 21    | 34    |
| 2000 - 2059  | 42    | 1     | 43    | 48    | 4     | 52    | 60    | 5     | 65    |
| 2100 - 2159  | 15    | 16    | 31    | 15    | 17    | 32    | 12    | 23    | 35    |
| 2200 - 2259  | 9     | 13    | 22    | 9     | 15    | 24    | 8     | 17    | 25    |
| 2300 - 2359  | 3     | 14    | 17    | 3     | 15    | 18    | 3     | 24    | 27    |
| Total        | 362   | 362   | 724   | 395   | 395   | 790   | 480   | 480   | 960   |
| Peak Hour    | 42    | 39    | 60    | 48    | 42    | 67    | 60    | 53    | 80    |
| Peak Percent | 11.6% | 10.8% | 8.3%  | 12.2% | 10.6% | 8.5%  | 12.5% | 11.0% | 8.3%  |

Source: PB Aviation Inc. Analysis



**TABLE 3.6-1**

**General Mitchell International Airport**

**ALTERNATIVE FORECAST**

| Year             | Base Forecast       |                 | Contributions to Base Forecast |                    | Percent of Total Enplanements in Base Forecast |                    | Operations Impact |             | Percent of Passenger Operations in Base Forecast |             |
|------------------|---------------------|-----------------|--------------------------------|--------------------|------------------------------------------------|--------------------|-------------------|-------------|--------------------------------------------------|-------------|
|                  | Total               | Connections     | AirTran                        | Incremental        | AirTran                                        | Incremental        | AirTran           | Connections | AirTran                                          | Connections |
|                  | <u>Enplanements</u> | <u>Included</u> | <u>Enplanements</u>            | <u>Connections</u> | <u>Enplanements</u>                            | <u>Connections</u> |                   |             |                                                  |             |
| 1996             | 2,732,965           | 206,693         |                                |                    |                                                |                    |                   |             |                                                  |             |
| 1997             | 2,804,596           | 199,869         |                                |                    |                                                |                    |                   |             |                                                  |             |
| 1998             | 2,790,837           | 204,185         |                                |                    |                                                |                    |                   |             |                                                  |             |
| 1999             | 2,906,189           | 221,291         |                                |                    |                                                |                    |                   |             |                                                  |             |
| 2000             | 3,039,962           | 234,518         |                                |                    |                                                |                    |                   |             |                                                  |             |
| 2001             | 2,811,954           | 269,823         |                                |                    |                                                |                    |                   |             |                                                  |             |
| <b>Forecasts</b> |                     |                 |                                |                    |                                                |                    |                   |             |                                                  |             |
| 2006             | 3,658,480           | 353,585         | 305,341                        | 94,289             | 8.3%                                           | 2.6%               | 8,815             | 4,139       | 5.1%                                             | 2.4%        |
| 2011             | 4,434,172           | 534,533         | 388,616                        | 254,540            | 8.8%                                           | 5.7%               | 10,464            | 10,271      | 5.5%                                             | 5.4%        |
| 2021             | 6,427,713           | 1,011,481       | 527,407                        | 842,901            | 8.2%                                           | 13.1%              | 12,516            | 29,285      | 5.4%                                             | 12.6%       |

Source: PB Aviation, Inc. Analysis

General aviation activity will continue at the Airport, but it will grow very slowly, especially in the early part of the forecast period. Cargo operators, large and small, will also grow at GMIA.

The next chapter assesses the ability of existing airside and landside facilities at GMIA to accommodate the aviation activity levels that are projected in this chapter. The need for improvements and expanded facilities is determined by the projections in this chapter as well as by known changes to occur in the aviation industry.