

APPENDIX A

Aviation Activity Forecast Technical Report

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U.S. Department
of Transportation
**Federal Aviation
Administration**

Great Lakes Region
Minneapolis Airports District Office
6020 28th Ave S, Room 102
Minneapolis, MN 55450

July 2, 2012

Mr. Roy Fuhrmann
Director of Environment
Metropolitan Airports Commission
6040 28th Avenue South
Minneapolis, MN 55450

Dear Mr. Fuhrmann:

The Federal Aviation Administration (FAA) has evaluated the Aviation Activity Forecast Technical Report for the Minneapolis-St Paul International Airport (June 2012) prepared by the HNTB Corporation on behalf of the Metropolitan Airports Commission (MAC). The forecasts contained in the June 2012 report have been approved. The FAA concurs with the use of the forecasts for the 2020 Improvement project.

Please note that this transmittal serves as notification that the forecast has been approved. This is not a notice of final project approval, funding eligibility or availability. This forecast must be reviewed again within 3 to 5 years, unless current conditions change materially or new information becomes available sooner. If you have any questions or concerns, please do not hesitate to contact us.

Sincerely:

A handwritten signature in black ink, appearing to read "S. J. Obenauer".

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Minneapolis Airports District Office
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Cc: Paul Lo, FAA Great Lakes Regional Office

Aviation Activity Forecast Technical Report

Prepared by:

HNTB Corporation

June 5, 2012

**Minneapolis-St. Paul International Airport
2020 Improvements
Environmental Assessment/
Environmental Assessment Worksheet**

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APPENDIX A

Aviation Activity Forecast

Technical Report

INTRODUCTION & PURPOSE

The Metropolitan Airports Commission (MAC) prepared a Long Term Comprehensive Plan (LTCP) Update for the Minneapolis-St. Paul International Airport (MSP) in 2009. In the LTCP Update, the MAC identified specific physical improvements at MSP to allow the Airport to effectively continue providing the Twin Cities commercial air transport needs as forecast through 2030. While the LTCP Update identified facility improvements needed through year 2030, only the improvements needed through 2020 are considered appropriate for environmental review at this time. Thus, to comply with federal and state laws, the MAC is preparing an Environmental Assessment / Environmental Assessment Worksheet (EA) to evaluate and disclose the potential environmental impacts of improvements needed through 2020.

Since the LTCP forecast was published, a lagging economic recovery, changes in the airline industry, and new information on airline fleet plans, has created material changes that warrant an update of the forecast for the EA. In addition, some aspects of the forecast need to be developed in more detail than the original LTCP to generate the information needed to adequately assess the environmental impacts.

The FAA's Terminal Area Forecast (TAF) was considered for use in this study. The TAF, however, did not incorporate the planned Delta Air Lines fleet changes that will be increasing the average aircraft size. Moreover, the TAF does not provide the market level of detail required to prepare the gated flight schedules necessary to assess the noise and air quality impacts of the proposed improvements. Therefore, an independent forecast was prepared for this EA. A comparison with the 2011 TAF is provided in Section 14.

This technical report contains the annual and derivative activity forecasts for the Airport. Except where noted, the forecasts contained herein are unconstrained; they assume landside and airfield capacity will be available to accommodate the anticipated demand. Forecasts are presented for 2015, 2020, 2025, and 2030; however the main focus of the analysis is on 2020 and 2025. In some instances, forecast data are presented for 2016 to facilitate more detailed phasing should it be needed. Separate annual forecasts were developed for scheduled domestic and international passenger, non-scheduled passenger, air cargo, general aviation, and military activity.

More detailed gated flight schedules were prepared for 2010 (the base year), 2020 and 2025. The year 2020 represents the year of project implementation and 2025 activity levels are used

to evaluate impacts five years thereafter. Gated flight schedules were used to evaluate three on-site alternatives:

- Alternative 1 - Airlines Remain, which assumes that airlines remain and grow at their existing terminals;
- Alternative 2 - Airlines Relocate, which assumes that all non-SkyTeam airlines relocate to Terminal 2-Humphrey; and
- No Action Alternative: No expansion projects are assumed, except those that do not require environmental approval or are covered by a State Environmental Assessment Worksheet (EAW) or categorical exclusion.

This report first discusses historical and anticipated socioeconomic activity in the Twin Cities area, followed by a discussion of historical aviation activity and ongoing trends at MSP. Critical assumptions are then presented followed by the forecasts of domestic and international passengers, along with forecasts of non-scheduled passengers and peak activity. Forecasts of air cargo tonnage and operations, and general aviation and military activity are then discussed along with the gated flight schedules and associated detailed derivative forecasts. The technical report concludes with a summary of forecast annual activity and estimated gate requirements.

Subsequent to the preparation of this analysis, American Airlines declared Chapter 11 bankruptcy and new changes in Essential Air Service (EAS) providers were announced. As a result of the bankruptcy, American is expected to reorganize and possibly merge with another carrier, but not to cease operations. Currently, American Airlines accounts for slightly over 3 percent of passenger and aircraft operation activity at MSP; therefore the total impact of the bankruptcy on MSP activity is not expected to be significant. It was also announced that Great Lakes Aviation would be replacing Mesaba Airlines as the EAS carrier for several MSP markets, including Thief River Falls and Brainerd in Minnesota, Fort Dodge and Mason City in Iowa, Iron Mountain in Michigan, Watertown in South Dakota and Devils Lake in North Dakota. As a result, these markets will be served by Beech 1900 turboprop aircraft flown by Great Lakes instead of the Saab 340 turboprop aircraft flown by Mesaba. The forecast and planned facility improvements currently provide for activity by small turboprops, so these changes will not have a significant impact on the proposed improvements and resulting impacts.

The assumptions in the following forecasts are based on input from airline and Airport officials, previous MSP studies, relevant literature, and professional experience. Forecasting, however, is not an exact science. Departures from forecast levels in the local and national economy and in the airline business environment may have a significant effect on the projections presented herein. These uncertainties increase towards the end of the forecast period, when new technologies and business strategies and changes in work and recreational practices may have an unpredictable impact on aviation activity. For these reasons, the forecasts should be periodically compared with actual Airport activity levels, and Airport plans and policies adjusted accordingly.

1 Economic Trends

Passenger demand is determined by the strength of the economy and the cost and availability of air service. Consequently, the development of an aviation activity forecast requires a clear understanding of local economic forecasts and trends.

The service area definition corresponds to the seven counties that comprise the Metropolitan Council (Met Council). This core area includes Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington Counties. Larger service area definitions that encompass additional counties have been tested in previous MSP forecast efforts, but in those studies, passengers proved to be most sensitive to trends in the seven-county Met Council area.

Table A.1.1 presents historical and projected population, employment, income and per capita income for each county within the Met Council area. The tables in **Attachment 1, Socioeconomic Data**, provide more detailed information by county and also show data for the United States for comparison purposes. Two sets of forecasts are presented in the Attachment, one from the Met Council and the other from Woods & Poole Economics (W&P).

Both the Met Council and W&P socioeconomic forecasts have their strengths and weaknesses. The Met Council forecasts are prepared locally and reflect a detailed knowledge of the existing and projected growth trends within the Minneapolis-St. Paul metropolitan area. However, they do not include projections of income or projections of national activity. Income is important because analysis of historical passenger activity indicates that passenger demand is more closely correlated with income than with population or employment. Also, much of the analysis will be based on FAA projections of national aviation activity. For this analysis to be valid, the local and national socioeconomic projections need to be based on a consistent set of assumptions.

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Table A.1.1

**Summary of Socioeconomic Data and Forecasts
Seven-County Metropolitan Council Area**

| Year | Population | Employment | Income (thousands of 2010 \$) | Per Capita Income (2010 \$) |
|-----------------------------------|------------|------------|----------------------------------|--------------------------------|
| 1990 | 2,298,418 | 1,590,618 | 81,852,051 | 35,612 |
| 1991 | 2,332,897 | 1,593,506 | 82,044,918 | 35,169 |
| 1992 | 2,368,710 | 1,616,834 | 85,283,163 | 36,004 |
| 1993 | 2,406,000 | 1,651,174 | 86,825,783 | 36,087 |
| 1994 | 2,441,014 | 1,701,628 | 90,864,821 | 37,224 |
| 1995 | 2,474,926 | 1,754,558 | 95,314,223 | 38,512 |
| 1996 | 2,508,406 | 1,789,424 | 99,780,757 | 39,779 |
| 1997 | 2,540,725 | 1,822,330 | 105,059,222 | 41,350 |
| 1998 | 2,575,454 | 1,871,106 | 113,798,168 | 44,186 |
| 1999 | 2,613,594 | 1,911,571 | 118,863,138 | 45,479 |
| 2000 | 2,651,983 | 1,956,386 | 126,248,090 | 47,605 |
| 2001 | 2,683,533 | 1,964,972 | 126,930,035 | 47,300 |
| 2002 | 2,699,163 | 1,950,277 | 128,152,703 | 47,479 |
| 2003 | 2,710,767 | 1,954,321 | 129,896,618 | 47,919 |
| 2004 | 2,726,057 | 1,982,000 | 134,458,194 | 49,323 |
| 2005 | 2,740,535 | 2,020,535 | 134,987,963 | 49,256 |
| 2006 | 2,763,470 | 2,050,927 | 139,696,298 | 50,551 |
| 2007 | 2,791,531 | 2,078,693 | 143,212,710 | 51,303 |
| 2008 | 2,818,169 | 2,093,774 | 142,240,983 | 50,473 |
| 2010 | 2,898,034 | 2,143,252 | 133,336,513 | 46,009 |
| 2015 | 3,085,516 | 2,266,500 | 148,743,864 | 48,207 |
| EA Analysis Period | | | | |
| 2020 | 3,272,997 | 2,389,747 | 166,088,730 | 50,745 |
| 2025 | 3,407,246 | 2,493,907 | 185,582,702 | 54,467 |
| Long Term | | | | |
| 2030 | 3,541,495 | 2,598,067 | 207,330,407 | 58,543 |
| Average Annual Growth Rate | | | | |
| 1990-2008 | 1.1% | 1.5% | 3.1% | 2.0% |
| 2008-2025 | 1.1% | 1.0% | 1.6% | 0.4% |
| 2008-2030 | 1.0% | 1.0% | 1.7% | 0.7% |

Sources: Attachment 1, Tables 1.1 through 1.8 and HNTB analysis.

The W&P forecasts are more recent than the Met Council forecasts. They also include personal income and prepare metropolitan and national forecasts using a common set of assumptions. However, the W&P forecasts do not incorporate a detailed knowledge of local growth trends and development constraints.

A hybrid forecast that incorporates the strengths and minimizes the weaknesses of the two data sources was prepared for use in this study. For each county, Met Council forecast growth rates were applied to the latest base year data. These forecasts were then adjusted, on a prorated basis, to sum to the W&P forecasts for the seven-county Met Council metropolitan area.

1.1 Population

Table 1.1 shows historical population in the Twin Cities, Minnesota, and the United States. The historical population information was obtained from the Bureau of Economic Analysis (BEA) in the U.S. Department of Commerce. Until 2000, the Twin Cities grew at a more rapid pace than the United States but metropolitan growth has roughly paralleled national growth over the last decade. The suburban areas are also growing slightly more quickly than the urban core (Hennepin and Ramsey Counties).

Table 1.2 presents two alternative forecasts of population for Minneapolis-St. Paul. The first forecast was obtained from the Met Council's revised Regional Development Framework 2030 Forecasts and is only available for the seven-county Met Council area. The second forecast applies the Met Council growth rates to the most recent available year for historical socioeconomic data (2008). As shown, the forecasts for the seven-county area project an average annual growth rate of about 1.1 percent through 2025. The forecasts project the metropolitan area to continue to grow faster than the state, and the outer suburbs to grow faster than the inner suburbs.

1.2 Employment

Table 1.3 presents historical employment for each of the seven Met Council counties, the service area, and the United States. The table shows the economic cycles that have occurred over the past two decades, including the boom times of the mid- to late 1980s and mid- to late 1990s, punctuated by the slowdowns and declines of the early 1980s, early 1990s, and 2001-2003. Overall, the metropolitan area has grown slightly more rapidly than the U.S. and the outer suburbs have grown slightly faster than the inner suburbs.

Employment forecasts from the Met Council are presented in Table 1.4. The Met Council uses a stricter definition of employment than is used by the U.S. Bureau of Economic Analysis and therefore their historical and projected employment numbers are lower.¹ Consequently, to facilitate comparison an adjusted set of Met Council projections was developed by applying Met Council growth rates to base year BEA numbers. The Met Council projections (1.0 percent per year) are more conservative than the Woods & Poole projections for national employment (1.2 percent per year).

1.3 Income and Per Capita Income

Table 1.5 shows historical income in the service area and the United States from 1980 through 2008. All numbers are provided in thousands of 2010 dollars. Total income in the metropolitan area grew at 3.3 percent annually through 2008, a higher rate than in the remainder of the State or the United States (3.0 percent). As was the case with employment, income has alternated between periods of rapid growth and periods of stagnation. No income data specific to the seven-county area is available for a more recent year than 2008. However, national data indicate that the 2008-2009 recession has had a negative impact on income growth.

Table 1.6 shows historical per capita income in 2010 dollars. Per capita income in the Twin Cities is higher than in the rest of the State or than in the United States. Over the past twenty years, Minnesota per capita income has grown at roughly the same pace inside and outside the metropolitan area but more quickly than in the United States.

Projected per capita income is shown in Table 1.7. No Met Council forecasts are presented because the Met Council does not publish income or per capita income forecasts. Woods & Poole projects per capita income to continue to grow but at a more moderate rate than it has in the past. This, in part, reflects an expectation that the growth in the economy will slow down as more members of the Baby Boom generation enter retirement. Per capita income is projected to grow at roughly 0.4 percent per annum through 2025 in the Twin Cities metropolitan area, compared to 0.9 percent in the United States. Note that in the short term, between 2008 and 2010, per capita income was estimated to decline as a result of the recession.

Table 1.8 presents two sets of income projections. The unadjusted Woods & Poole forecasts project real income to grow 1.8 percent per year in the metropolitan area. A second set of projections combines the Met Council population forecasts with the Woods & Poole per capita income forecasts to generate a hybrid income forecast for the seven-county service area. The adjusted forecast projects income to increase at 1.6 percent rate through 2025.

2 Historical Aviation Activity and Current Trends

This section provides a brief overview of historical passenger, cargo (freight and mail), general aviation and military activity at MSP.

2.1 Passenger Activity

Table A.2.1 shows historical domestic and international originations and **Table A.2.2** shows historical passenger enplanements at MSP. In general, passenger growth has tracked with economic growth. There were periods of slow growth in the early 1990s, and 2000-2003 and periods of more rapid growth in the mid- to late 1990s, as well as 2004 and 2005. Enplanements began to decline after 2005 and originations declined between 2007 and 2009.

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2020 Improvements EA/EAW**

Table A.2.1

Historical Originating Passengers at MSP

| Year | Domestic Originations (a) | Combined International (b) | Total Originations |
|-----------|-----------------------------------|-------------------------------|-----------------------|
| 1990 | 4,284,240 | n/a | n/a |
| 1991 | 4,288,090 | n/a | n/a |
| 1992 | 4,414,590 | n/a | n/a |
| 1993 | 4,511,050 | n/a | n/a |
| 1994 | 4,598,270 | n/a | n/a |
| 1995 | 5,021,830 | n/a | n/a |
| 1996 | 5,411,820 | n/a | n/a |
| 1997 | 5,750,780 | n/a | n/a |
| 1998 | 5,736,650 | n/a | n/a |
| 1999 | 6,365,610 | n/a | n/a |
| 2000 | 7,225,020 | n/a | n/a |
| 2001 | 6,603,320 | 544,189 | 7,147,509 |
| 2002 | 6,207,930 | 502,422 | 6,710,352 |
| 2003 | 6,390,140 | 499,471 | 6,889,611 |
| 2004 | 7,074,980 | 595,452 | 7,670,432 |
| 2005 | 7,609,360 | 618,977 | 8,228,337 |
| 2006 | 7,643,820 | 654,297 | 8,298,117 |
| 2007 | 7,703,380 | 709,046 | 8,412,426 |
| 2008 | 7,065,580 | 718,963 | 7,784,543 |
| 2009 | 6,987,990 | 644,281 | 7,632,271 |
| 2010 | 7,084,400 | 706,128 | 7,790,528 |
| | Average Annual Growth Rate | | |
| 1990-2010 | 2.5% | n/a | n/a |
| 2001-2010 | 0.8% | 2.9% | 1.0% |

(a) USDOT, Origin-Destination Survey as compiled by DataBase Products, Inc.

(b) USDOT, Origin-Destination Survey for U.S. Flag Carriers. Originations for Foreign-Flag Carriers estimated.

Sources: As noted and HNTB analysis.

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Table A.2.2

Historical Revenue Passenger Enplanements at MSP

| Year | Domestic Air Carrier Enplanements | International Air Carrier Enplanements | Regional Enplanements | Non-Scheduled Enplanements | TOTAL Enplanements |
|------------------------------|---|--|--------------------------|-------------------------------|-----------------------|
| 1980 | 4,285,217 | 28,731 | 159,727 | 113,793 | 4,587,468 |
| 1981 | 4,391,802 | 57,871 | 129,497 | 85,869 | 4,665,039 |
| 1982 | 5,071,395 | 50,574 | 178,590 | 82,278 | 5,382,837 |
| 1983 | 5,702,094 | 49,638 | 256,615 | 149,486 | 6,157,833 |
| 1984 | 5,986,288 | 73,014 | 287,762 | 187,076 | 6,534,140 |
| 1985 | 7,114,367 | 83,533 | 349,281 | 312,186 | 7,859,367 |
| 1986 | 7,845,494 | 81,700 | 481,188 | 238,972 | 8,647,354 |
| 1987 | 8,171,206 | 85,023 | 509,246 | 205,700 | 8,971,175 |
| 1988 | 8,023,121 | 65,265 | 516,083 | 266,344 | 8,870,813 |
| 1989 | 8,349,920 | 78,910 | 415,910 | 343,418 | 9,188,158 |
| 1990 | 8,609,638 | 102,673 | 495,439 | 387,320 | 9,595,070 |
| 1991 | 8,683,232 | 124,125 | 492,075 | 353,590 | 9,653,022 |
| 1992 | 9,550,986 | 144,255 | 566,186 | 419,060 | 10,680,487 |
| 1993 | 9,851,910 | 170,544 | 649,104 | 350,918 | 11,022,476 |
| 1994 | 10,261,328 | 166,114 | 646,788 | 457,715 | 11,531,945 |
| 1995 | 11,288,317 | 256,669 | 617,477 | 501,792 | 12,664,255 |
| 1996 | 12,142,783 | 276,575 | 720,749 | 481,532 | 13,621,639 |
| 1997 | 12,578,587 | 419,048 | 872,377 | 465,628 | 14,335,640 |
| 1998 | 12,645,248 | 519,395 | 820,709 | 635,290 | 14,620,642 |
| 1999 | 14,020,304 | 575,079 | 1,211,306 | 650,350 | 16,457,039 |
| 2000 | 15,278,927 | 644,096 | 1,204,681 | 399,683 | 17,527,387 |
| 2001 | 14,379,588 | 558,276 | 809,019 | 280,609 | 16,027,492 |
| 2002 | 13,794,354 | 551,203 | 1,054,192 | 365,023 | 15,764,772 |
| 2003 | 14,045,747 | 572,691 | 1,250,064 | 233,692 | 16,102,194 |
| 2004 | 14,901,675 | 677,318 | 1,778,396 | 240,250 | 17,597,639 |
| 2005 | 14,849,344 | 790,806 | 2,138,186 | 205,975 | 17,984,311 |
| 2006 | 14,143,459 | 692,757 | 2,190,679 | 151,412 | 17,178,307 |
| 2007 | 13,496,662 | 980,460 | 2,406,447 | 85,515 | 16,969,084 |
| 2008 | 11,750,665 | 1,264,507 | 3,336,724 | 32,376 | 16,384,272 |
| 2009 | 10,824,905 | 1,059,969 | 3,639,535 | 26,725 | 15,551,134 |
| 2010 | 10,214,550 | 1,141,442 | 4,354,331 | 4,736 | 15,715,059 |
| Average Annual Growth | | | | | |
| 1980-1990 | 7.2% | 13.6% | 12.0% | 13.0% | 7.7% |
| 1990-2010 | 0.9% | 12.8% | 11.5% | -19.8% | 2.5% |
| 1990-2001 | 4.8% | 16.6% | 4.6% | -2.9% | 4.8% |
| 2001-2010 | -3.7% | 8.3% | 20.6% | -36.5% | -0.2% |
| 1980-2010 | 2.9% | 13.1% | 11.6% | -10.1% | 4.2% |

Sources: MAC activity statistics and HNTB analysis.

There was a slight increase in both originations and enplanements in 2010. Key trends and factors at MSP over the past thirty years include:

- The reduction in traffic growth after 1987 following the Northwest/Republic merger and the economic slowdown;
- Two rapid periods of regional carrier growth, first in the 1980s with the advent of code-sharing and then in the late 1990s with the widespread proliferation of regional jets;
- Significant international passenger growth to European markets during most of the period as Northwest began non-stop service to Europe and the Northwest/KLM alliance provided access to many additional European markets;
- New international service to Asian markets resulting from the introduction of the Boeing 747-400 aircraft which provided the range to access these markets non-stop;
- Significant international growth to other North American countries, as the Canadian markets became liberalized, and scheduled non-stop winter flights to Mexico were introduced;
- An extended period of passenger growth corresponding with the economic boom of the mid and late 1990s;
- A brief slow-down in the growth in 1998 as a result of the Northwest work stoppage;
- Another spurt in growth in 1999-2000 corresponding to Sun Country's introduction of scheduled service and Northwest's competitive reaction;
- A major downturn beginning in 2001 as a result of the September 11th terrorist attacks and associated security restrictions and passenger apprehensions coupled with an economic slowdown;
- Rapid growth in 2004 resulting from an improving economy and relentless fare competition;
- A decline after 2005 resulting from Northwest's Chapter 11 filing, followed by a rapid increase in jet fuel prices, and followed in turn by the financial crisis of 2008 and subsequent economic recession, and 2008 Sun Country Chapter 11 filing; and
- A slowdown in international growth in recent years, as Northwest and then Delta placed more emphasis on other gateways in their system including Detroit, Atlanta, and New York JFK.

Total domestic originations have grown at a 2.5 percent average annual rate over the period. Total enplanements have grown at a 2.5 percent average annual rate over the same period indicating that international passengers and connecting enplanements have grown at about the same rate as originating enplanements. International enplanements and regional carrier enplanements have grown most rapidly. Conversely, non-scheduled enplanements have grown

the most slowly and declined significantly in recent years, although this is largely due to Sun Country's change in emphasis from charter to scheduled operations.

2.2 Aircraft Operations

Table A.2.3 presents historical aircraft operations at MSP. Each aircraft take-off and each aircraft landing counts as an operation. Total aircraft operations have grown at an average annual rate of 1.5 percent over the thirty year period. The fastest growing categories have been international and regional passenger carriers. Conversely, non-scheduled, general aviation and military operations have been declining.

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Table A.2.3

Historical Aircraft Operations at MSP (a)

| Year | Domestic Air Carrier | Regional | International Air Carrier (b) | Non-Scheduled | All-Cargo | General Aviation | Military | Total |
|------------------------------|-------------------------|----------|----------------------------------|---------------|-----------|---------------------|----------|---------|
| 1980 | 146,524 | 12,128 | 350 | 1,976 | 1,214 | 114,260 | 6,604 | 283,056 |
| 1981 | 146,338 | 9,904 | 472 | 2,568 | 1,446 | 97,278 | 5,606 | 263,612 |
| 1982 | 150,450 | 22,838 | 390 | 2,478 | 2,556 | 82,303 | 5,359 | 266,374 |
| 1983 | 170,108 | 33,924 | 388 | 3,752 | 3,192 | 83,548 | 5,100 | 300,012 |
| 1984 | 189,830 | 35,938 | 506 | 2,234 | 5,966 | 93,367 | 7,721 | 335,562 |
| 1985 | 220,190 | 31,460 | 628 | 3,346 | 5,338 | 106,715 | 14,020 | 381,697 |
| 1986 | 231,760 | 50,520 | 680 | 2,426 | 12,360 | 71,406 | 6,869 | 376,021 |
| 1987 | 213,540 | 56,410 | 644 | 3,002 | 15,434 | 70,050 | 8,676 | 367,756 |
| 1988 | 211,562 | 58,896 | 544 | 2,836 | 17,958 | 68,634 | 6,698 | 367,128 |
| 1989 | 218,168 | 59,338 | 718 | 3,310 | 17,194 | 71,669 | 4,347 | 374,744 |
| 1990 | 223,884 | 74,446 | 860 | 4,538 | 18,526 | 58,864 | 2,804 | 383,922 |
| 1991 | 225,390 | 75,856 | 1,078 | 5,046 | 20,280 | 55,702 | 2,534 | 385,886 |
| 1992 | 242,670 | 85,926 | 1,222 | 5,824 | 18,900 | 60,929 | 3,003 | 418,474 |
| 1993 | 258,374 | 108,237 | 1,285 | 4,855 | 15,198 | 49,216 | 2,825 | 439,990 |
| 1994 | 264,519 | 115,164 | 1,478 | 6,103 | 14,110 | 50,898 | 2,451 | 454,723 |
| 1995 | 281,334 | 106,763 | 1,832 | 6,832 | 15,909 | 49,769 | 2,915 | 465,354 |
| 1996 | 295,776 | 105,926 | 2,256 | 8,750 | 20,362 | 49,786 | 2,624 | 485,480 |
| 1997 | 294,220 | 102,038 | 3,821 | 8,350 | 15,011 | 64,209 | 3,624 | 491,273 |
| 1998 | 278,828 | 90,421 | 5,109 | 11,531 | 15,323 | 79,757 | 2,044 | 483,013 |
| 1999 | 314,883 | 109,017 | 6,036 | 10,600 | 17,271 | 49,256 | 3,358 | 510,421 |
| 2000 | 341,980 | 89,105 | 7,224 | 5,959 | 18,395 | 58,076 | 2,473 | 523,212 |
| 2001 | 342,122 | 81,661 | 7,449 | 4,090 | 17,077 | 45,943 | 3,180 | 501,522 |
| 2002 | 338,744 | 95,248 | 7,048 | 4,833 | 14,974 | 44,279 | 2,543 | 507,669 |
| 2003 | 336,516 | 104,931 | 8,461 | 4,732 | 16,579 | 39,513 | 1,856 | 512,588 |
| 2004 | 334,452 | 135,785 | 9,360 | 3,793 | 16,709 | 39,018 | 1,976 | 541,093 |
| 2005 | 314,833 | 144,293 | 13,351 | 3,879 | 17,182 | 36,472 | 2,230 | 532,240 |
| 2006 | 277,525 | 128,156 | 10,900 | 3,233 | 16,355 | 37,459 | 2,040 | 475,668 |
| 2007 | 253,338 | 135,170 | 14,889 | 1,432 | 15,292 | 30,562 | 2,289 | 452,972 |
| 2008 | 212,167 | 166,106 | 24,074 | 536 | 14,361 | 30,685 | 2,115 | 450,044 |
| 2009 | 188,812 | 183,540 | 22,273 | 371 | 11,146 | 24,361 | 1,892 | 432,395 |
| 2010 | 164,785 | 203,066 | 26,556 | 103 | 12,499 | 27,921 | 2,145 | 437,075 |
| Average Annual Growth | | | | | | | | |
| 1980-1990 | 4.3% | 19.9% | 9.4% | 8.7% | 31.3% | -6.4% | -8.2% | 3.1% |
| 1990-2001 | 3.9% | 0.8% | 21.7% | -0.9% | -0.7% | -2.2% | 1.2% | 2.5% |
| 2001-2010 | -7.8% | 10.7% | 15.2% | -33.6% | -3.4% | -5.4% | -4.3% | -1.5% |
| 1980-2010 | 0.4% | 9.8% | 15.5% | -9.4% | 8.1% | -4.6% | -3.7% | 1.5% |

(a) MSP Airport data.

(b) Most Canadian flights through 2007 included in domestic numbers.

Sources: As noted, MAC Activity Statistics, and HNTB analysis.

3 General Forecast Assumptions

This section describes the general assumptions that were applied in this forecast. More detailed assumptions specific to a particular activity category are described in the sections pertaining to those categories. The major assumptions are as described below.

3.1 Unconstrained Forecasts

The revised unconstrained forecasts contained herein are physically unconstrained. For the purposes of this study, “physically unconstrained” means that there are sufficient airport airfield, terminal, and landside facilities at the Airport to accommodate all commercial aviation activity dictated by demand. Although no airfield limits are assumed for General Aviation (GA), it is anticipated that the development of on-airport GA facilities will follow current trends. Therefore, it is assumed that limited on-airport GA facilities will continue to cause GA activity to divert to reliever airports.

It is assumed that destination airports will be developed sufficiently to accommodate demand from the Twin Cities. However, it is recognized that airfield capacity constraints at some airports, such as London Heathrow and Tokyo Narita, will force an increase in aircraft gauge that would not occur in a truly unconstrained case.

3.2 Regulatory Assumptions

No return to airline regulation, as occurred prior to 1979, is assumed. This means that airlines will increase service and change fares as market conditions dictate. Also, except for the demand management scenarios, the forecasts in this report assume no slot control systems for MSP or destination airports other than those already in place.

3.3 Economic Assumptions

The forecasts assume no future major economic downturn, such as occurred during the depression of the 1930s. The local and national economies will periodically increase and decrease the pace of growth in accordance with business cycles. However, it is assumed that, over the forecast term, the high-growth and low-growth periods will offset each other so that the economic forecasts described in Section 1 will be realized. As noted in Section 1, the socioeconomic projections used for these forecasts reflect the current economic downturn.

3.4 International Political Environment

No major international conflicts that would disrupt aviation at MSP are assumed. Likewise, no major trade wars or embargoes that would restrict the international flow of commerce and travel are assumed.

3.5 Security Environment

Post-September 11th security requirements are still evolving. They affect passenger demand by increasing the cost of travel, delays, and inconvenience. For the purpose of this study it is

assumed that the Transportation Security Administration (TSA) will maintain its objective of limiting security-related delays to 10 minutes.

3.6 Fuel Assumptions

In accordance with Department of Energy (DOE) forecasts, the real cost of fuel is assumed to increase from 2011 levels. However, no major disruptions, as occurred in the mid- and late 1970s, are assumed. Also, no major increases in fuel taxes are assumed. If this assumption does not hold, and fuel prices continue to remain high, airlines would have to raise air fares to remain in operation, and the higher air fares would reduce demand.

3.7 Environmental Factors

No major changes in the physical environment are assumed. It is assumed that global climate changes will not be sufficient enough to force restrictions on the burning of hydrocarbons or major fuel tax increases.

3.8 National Airspace System

It is assumed that the FAA will successfully implement any required changes and improvements for the national airspace system to accommodate the unconstrained forecast of aviation demand.

3.9 Airline Consolidation

It is assumed that factors, such as government regulations and labor union resistance, will prevent any major airline consolidation beyond the current ongoing mergers such as United/Continental and Southwest/AirTran. Although some minor airline consolidation could continue to occur, no attempt is made to predict the individual airlines that would be affected.

3.10 New Entrants

As they expand their national route networks, established airlines that currently do not serve MSP, such as JetBlue, are assumed to introduce service by 2015. Southwest Airlines is assumed to expand into MSP as they have at other major focus cities. New airlines may attempt to become established during the forecast period, however, it is not possible to predict the names and characteristics of these airlines.

3.11 Airline Alliances

The SkyTeam alliance is assumed to continue with its current membership through the future. Current members include Delta, Air France, KLM, Alitalia, Korean, Aeromexico, Aeroflot, China Southern, Air Europa, Kenya Airways, TAROM, Vietnam Airlines, and CSA Czech Airlines.

3.12 Airline Strategy

Delta Air Lines and Sun Country Airlines are assumed to continue to operate as hub carriers at MSP. Although they may develop additional focus cities, they are not assumed to either add or delete major hubs elsewhere in the United States, and therefore the connecting percentage is assumed to remain at levels similar to those from 1992-2010.

4 Domestic Passenger Forecasts

This section describes the domestic passenger forecast for MSP. Additionally, this section includes a discussion of assumptions and data sources, the methodology for the passenger originations forecast, and the assumptions used to determine potential new markets. This section also includes a discussion of the projections of enplanements and connections, load factor, and seat departures. The methodology and assumptions used to estimate the type of air service that would accommodate the projected passenger are also described. This section concludes with a forecast of domestic passenger carrier aircraft operations.

4.1 Methodology, Assumptions, and Data Sources

Following is a summary of the methodology used in the domestic passenger forecast:

1. Determine drivers of passenger activity in the Twin Cities area.
2. Project future domestic passenger originations at MSP using regression analysis.
3. Adjust originations for impact of Southwest Airlines.
4. Project future domestic passenger enplanements.
5. Determine future non-stop markets based on airline revenue thresholds for existing non-stop markets.
6. Allocate MSP passengers by market.
7. Project load factor for each market.
8. Project seat departures for each market using the passenger and load factor forecasts.
9. Estimate the most likely way that airlines would accommodate the seat departure forecast in terms of aircraft type and frequency of service.
10. Convert the outbound passenger forecast to enplanements using MSP enplanement data.
11. Convert the scheduled aircraft departure forecast to actual departures using historical departure completion data.

The methodology is described in greater detail in the sections that follow.

The following data sources were used in the analysis:

- Historical and projected information on population, employment, and real income were obtained from the Regional Economic Accounts Data developed by the Bureau of Economic Analysis (BEA) in the U.S. Department of Commerce (see Section 1).
- The USDOT OD1A domestic O&D data base was used to obtain fares, yield (airline revenue per passenger mile) and distance and historical originating traffic and on a market-by-market basis.
- The USDOT T-100 data base was used to obtain outbound passengers on a market-by-market basis.
- Official Airline Guide (OAG) information on scheduled operations was used to determine existing scheduled service and historical non-stop service.
- The OAG, JP Fleet Airline-Fleets International, and individual airline websites were used to determine aircraft seat configurations for each airline.
- JP Fleet Airline-Fleets International, individual airline websites, and industry publications were used to identify information on airline fleet orders.

4.2 Yield and Fare Projections

Since passenger originations are local, they are sensitive to local economic factors such as population, employment, and income, and also to airline factors such as air carrier service and fares. Therefore, the critical assumptions for this analysis include the use of the growth rates identified in Section 1 for socioeconomic data and on assumptions regarding future yield (revenue per passenger mile) and fare levels. The detailed yield and fare analysis is presented in **Attachment 2, Fare and Yield Data and Projections**.

Table 2.1 presents historical fares and yields at MSP. Since the price to the passenger includes taxes and fees, in addition to the base fare reported by the airlines, these taxes and fees were added to the historical data. As shown in the table, there was a long-term decline in the real cost of air travel at MSP through 2005. Since 2005, the record has been mixed, as fares and yields increased to cover fuel prices and decreased during the worst part of the economic downturn.

Table 2.2 provides the FAA forecasts of yields and fares. An estimate of FAA fares was derived by multiplying the FAA forecasts of average yield and average trip distance. Since the FAA provides separate forecasts for mainline and regional carriers, these were weighted by FAA forecasted enplanements to generate combined mainline-regional carrier fare projections. As shown in Table 2.2, the FAA projects yield to continue to decline but, because of increasing trip distance, national fares are projected to decrease at a slower rate.

Real yields and fares (constant 2010 dollars) at MSP were assumed to change at the adjusted FAA national-projected rate (see Table 2.3). The calculation used 2008 as a base year to exclude the impact of Southwest Airlines which is addressed in Section 4.3.2. Table 2.4 shows projected MSP fares and yields including estimated taxes and fees.² Real fares and yields are anticipated to increase between 2010 and 2015, as the economy is anticipated to improve, but then resume their long-term decline thereafter.

4.3 Passenger Origination Forecast

This section presents the forecast of domestic passenger originations. It includes a discussion of the projection of domestic MSP originations and adjustments for the introduction of Southwest Airlines service.

4.3.1 Base Domestic Originations

Base domestic passenger originations were projected using the regression equation originally developed for the LTCP Update. Additional originations resulting from the introduction of air service by Southwest Airlines are discussed in Section 4.3.2. Regression analysis is a statistical method of generating an equation (or model) which best explains the historical relationship among selected variables, such as O&D passengers and real income. If it is assumed that the model that best explains historical activity will continue to hold into the future, this equation can be used as a forecasting equation. Using historical (1980-2006) data, several passenger origination forecasting models were tested. The potential driving factors tested included socioeconomic variables, aviation industry variables, and instrument variables. The socioeconomic variables included population, employment, income, and per capita income for the service area (see Section 1). The aviation industry variables included MSP fares and yields. Instrument variables representing the first Gulf War, the 1998 Northwest Airlines work stoppage, and the September 11 attacks and ensuing industry recovery were also tested. The model was tested in both linear and logarithmic formulations. The variables that were tested are shown in Tables 3.1 and 3.2 in **Attachment 3, Variables Tested in Regression Analysis**.

Several of the equations that were calculated showed strong correlations with passenger originations. The model that produced the best results, from both a theoretical and statistical standpoint, was a logarithmic formulation, which specified MSP originations as a function of local income and average fares (including taxes and fees) as independent variables. The regression equation is presented in **Table A.4.1**.

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Table A.4.1

Base Forecast of Annual Domestic Originations at MSP

| Year | Income (thousands of 2007 dollars) (a) | Fare (2007 dollars) (b) | Originations (c) | Southwest Adjustment Factor (d) | Originations Including Southwest Factor (e) |
|-----------------------------------|--|----------------------------------|---------------------|---------------------------------------|--|
| 2006 | 132,989,142 | 197.73 | 7,643,820 | - | 7,643,820 |
| 2007 | 136,336,723 | 190.64 | 7,703,380 | - | 7,703,380 |
| 2008 | 135,411,651 | 213.61 | 7,065,580 | - | 7,065,580 |
| 2009 | | 170.45 | 6,721,144 | 1.04 | 6,987,990 |
| 2010 | 126,934,706 | 189.10 | 6,763,718 | 1.05 | 7,084,400 |
| 2015 | 141,602,313 | 199.47 | 7,611,722 | 1.06 | 8,046,352 |
| 2016 | 144,904,733 | 198.84 | 7,823,265 | 1.06 | 8,269,975 |
| EA Analysis Period | | | | | |
| 2020 | 158,114,410 | 196.31 | 8,680,886 | 1.06 | 9,176,566 |
| 2025 | 176,672,429 | 193.13 | 9,909,172 | 1.06 | 10,474,987 |
| Average Annual Growth Rate | | | | | |
| 2010-2025 | 2.2% | 0.1% | 2.6% | n/a | 2.6% |
| Long Term | | | | | |
| 2030 | 197,375,975 | 189.80 | 11,313,215 | 1.06 | 11,959,201 |
| Average Annual Growth Rate | | | | | |
| 2010-2030 | 2.2% | 0.0% | 2.6% | n/a | 2.7% |

(a) Attachment 1, Table 1.8. Converted to 2007 prices for use in forecasting equation.

(b) Attachment 2, Table 2.4. Converted to 2007 prices for use in forecasting equation.

(c) Projected using following equation:

$$\text{ORIG} = (10^{-1.5452}) * (\text{INCOME}^{1.14219}) * (\text{FARE}^{-.34159}) * (\text{STRIKE}) * (\text{D2001}) * (\text{D2002}) * (\text{D2004}) * (\text{A2008})$$

where: ORIG = domestic originations

INCOME = 7-county metropolitan income in thousands of 2007 dollars)

FARE = average fare in 2007 dollars, including taxes and fees

STRIKE = instrument variable equal to (10^{-0.0266}) in 1998 during NWA pilot job action, and equal to 1 in all other years.

D2001 = instrument variable equal to 1 prior to 2001, and to (10^{-0.04316}) thereafter

D2002 = instrument variable equal to 1 prior to 2002, and to (10^{-0.02858}) thereafter

D2004 = instrument variable equal to 1 prior to 2004, and to (10^{-0.02318}) thereafter

A2008 = adjustment factor of .89287, representing difference between actual 2008 originations and originations projected by the equation.

R-squared = .991

F-statistic = 307.52

Durbin-Watson = 1.93

Degrees of Freedom = 10

T-statistics

intercept = -1.73

INCOME = 16.82

FARE = -2.01

STRIKE = -2.50

D2001 = -3.82

D2002 = -2.81

D2004 = 2.13

(d) Adjustment for Southwest stimulation. Please see text for details.

(e) Originations multiplied by Southwest factor.

Sources: As noted and HNTB analysis.

The model's projections for 2008 were compared with preliminary numbers for 2008 and the results suggested a further downward adjustment over and above that explained by the economic variables. The year 2008 was selected over subsequent years because it was the last year in which there was no impact on originations by Southwest Airlines. Based on the difference between the forecast results and actual numbers, the value of this imputed instrument variable is 0.89287 or $10^{-0.492}$. This negative impact, along with that of the post-9/11 instrument variables, was carried through the forecast period.

The metropolitan area income and employment variables represent the size of the market, and the fare variable represents the cost of the service. Since the forecasting model has a logarithmic formulation, each of the exponents associated with the input variables is an elasticity. With small changes in the input variables, the forecasting model can be interpreted as indicating that every 1.0 percent increase in metropolitan area income will increase originations by approximately 1.14 percent and that every 1.0 percent decrease in MSP fares will increase originations by approximately 0.34 percent.

Projections of the input variables are necessary to use the forecasting equation. Specifically, income projections were obtained from Table 1.8 and fare and yield projections from Table 2.4.

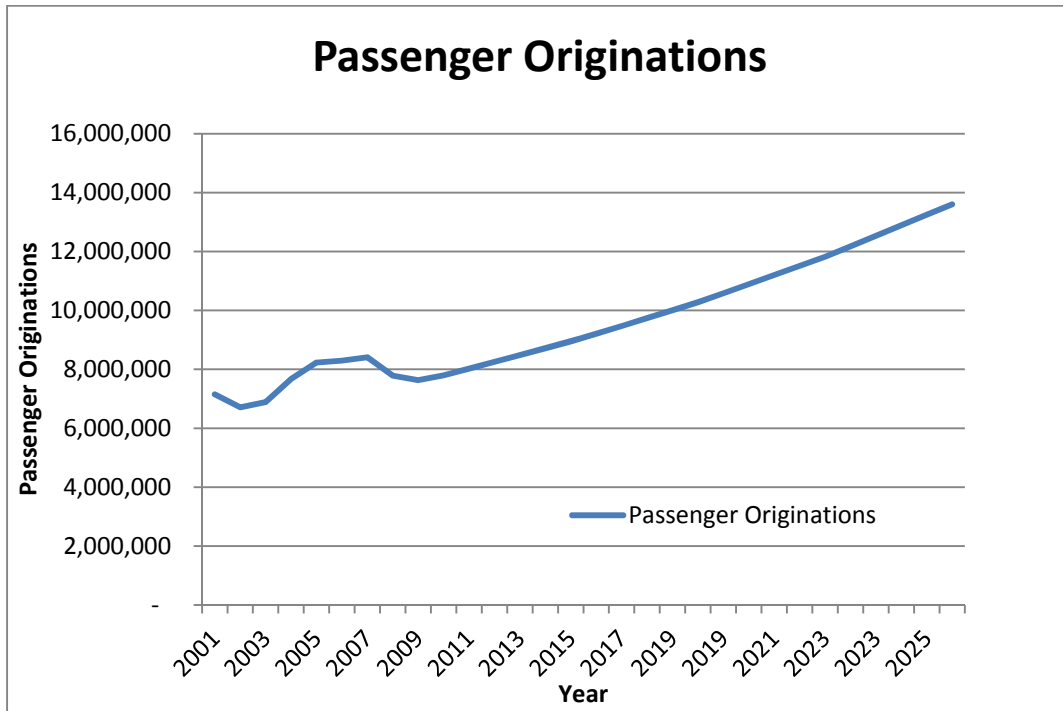
Table A.4.1 and **Figure A.4-1** show the base forecast of scheduled domestic passenger originations prepared using the equation presented above. As shown, base domestic MSP originations are projected to rise from 6.8 million in 2010 to 9.9 million in 2025, an average annual increase of 2.5 percent. This growth rate is similar to the growth rate experienced since 1990 (2.5 percent). The reduced future growth rate is anticipated to result from slower-than-historical rates of real income growth and from a slight increase in real fares.

There are several assumptions implicit in the base passenger origination forecasts:

- The historical relationship between originations, income, and fares will continue throughout the forecast period. Forces that could disrupt this relationship, such as a return to regulation, severe congestion at destination airports, or the wide-scale use of teleconferencing as a travel alternative, could alter this relationship.
- In accordance with FAA forecasts, fuel prices will increase over the forecast period, causing fares to decline more slowly than they have in the past.
- Real income in the extended service area will grow at the rate projected in Table 1.8.
- The population's distribution of income through the forecast period will be similar to what it is today.
- As a percentage of income, taxes and medical expenses, which are the principal budget items over which households have little control, will not increase sufficiently to affect household or business budgets devoted to air travel.

Figure A.4-1

Historical and Projected Originations at MSP



4.3.2 Originations Resulting from Southwest Airlines Service

Southwest Airlines (Southwest) began to serve MSP directly in March 2009. Many in the aviation industry have noted a phenomenon termed the “Southwest effect” in which the introduction of air service to an airport by Southwest has resulted in a substantial increase in passenger activity. The principal cause of the increase is the reduction in fares resulting from increased competition. The effect, however, often exceeds the amount that would be expected from the reduction in fares, possibly because of the high frequency of service, price transparency, increases in the size of the catchment area, and consistent level of service. **Attachment 4, Analysis of Southwest Airlines Impact**, provides the details of the analysis completed for the EA forecast.

Table 4.1 shows the historical impact of Southwest service on originations at large U.S. airports. The airports listed include large and medium hub airports where Southwest initiated service after 1990. Detroit Metropolitan Wayne County Airport (DTW) is included for comparison, although Southwest began service there in the 1980s. Originations in the table are expressed as a share of national originations to net out the impact of changes in the general economy and industry trends. To facilitate comparison, the shares are indexed so that in the two years prior to the introduction of Southwest service, the relative share is set equal to 1.00. In each case, the data series begins the first full year after the introduction of Southwest service. Therefore,

all other things being equal, the relative share of U.S. originations would remain at 1.00 if Southwest service had no impact on originations. The relative share would be greater than 1.00 if Southwest had a positive impact and less than 1.00 if Southwest had a negative impact.

In all cases, the addition of Southwest service caused the airport's share of national originations to increase. In one instance – Cleveland–Hopkins International Airport (CLE) – the relative share eventually dipped below 1.00 again, most likely because of Cleveland's poor record of economic growth relative to the remainder of the country. The increase in share was exceptional in the case of Baltimore/Washington International Thurgood Marshall Airport (BWI) and Fort Lauderdale Hollywood International Airport (FLL), mainly because Southwest was able to capture traffic from other markets – Washington and Miami.

To better evaluate the potential effect on MSP, the analysis was refined to include only airports similar to MSP – that is – airports that host major connecting operations and whose catchment areas do not substantially overlap that of another major airport. Four airports met that criterion – Denver International Airport (DEN), Philadelphia International Airport, CLE, and DTW. Table 4.2 shows the results of the analysis, indicating that for the airports most similar to MSP, the average impact of Southwest service was to increase originations by 11.1 percent over what they would otherwise have been. Preliminary indications are that Southwest impact on the MSP market after two years has been less than at the comparison airports. For example, after the first two years, Southwest stimulated traffic at MSP by 4.7 percent compared to an average of 9.2 percent at the comparison airports. Therefore, the ultimate Southwest stimulation effect at MSP was projected to be about 5.7 percent $((4.7\%/9.2\%)*11.1\%)$.

The domestic originations forecasts in Table A.4.1 were adjusted to reflect the anticipated impact of Southwest service. It was assumed that the effects would be fully realized by 2015. As shown, with the effect of Southwest Airlines included, originations are projected to increase from 7.1 million in 2010 to 10.50.4 million by 2025, an average annual increase of 2.6 percent.

4.4 Domestic Enplanement Forecasts

The forecast of domestic passenger enplanements is a function of the originating passenger forecast and the ratio of enplanements to originations (hubbing ratio). When queried, Delta Air Lines indicated that they did not anticipate a significant change in the ratio between enplanements and connections for their operation at MSP in the short term. In the longer term, there are a number of national industry factors that are affecting the relationship between enplanements and originations. These include:

- The loss of service at small communities, where the vast majority of passengers connect to their final destination.
- The increase and then decrease in regional jets, which facilitate point-to-point service for market pairs that had previously been too small to justify non-stop service.
- The proliferation of low cost carriers (LCC) which typically provide more point-to-point service than legacy carriers.

- Faster economic growth in communities served by large and medium hub airports as opposed to small hub airports.

In combination, these forces had caused connections to grow at a slightly lower rate than originations nationally through 2008, as shown in Table 5.1 within **Attachment 5, Detailed Domestic Passenger Forecasts**. Since that time, the decrease in regional jet operations has reduced point-to-point service in many markets, thereby reversing the trend. In addition, the gradual expansion of the Sun Country Airlines route network will increase connecting opportunities. If the combination of historical trends is carried forward, the ratio of enplanements to originations will increase, albeit at a very slow rate. Table 5.2 shows the projected future hubbing ratio at MSP, assuming that it will increase at the same rate as the national hubbing ratio.

Table A.4.2 provides the forecast of domestic enplanements at MSP. The hubbing ratio in Table 5.2 was applied to base originations rather than total originations, since it is not anticipated that the additional originations stimulated by Southwest will lead to additional connecting passengers. As shown in Table A.4.2, total domestic enplanements at MSP are projected to increase from 14.6 million in 2010 to 21.3 million in 2025, an average annual increase of 2.6 percent.

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Table A.4.2

Base Case Forecast of Domestic Enplanements at MSP

| Year | Base Originations (a) | Hubbing Ratio (b) | Base Enplanements w/o Southwest (c) | Total Originations (d) | Total Enplanements including Southwest (e) |
|-----------------------------------|-----------------------|-------------------|-------------------------------------|------------------------|--|
| 2006 | 7,643,820 | 2.137 | 16,334,138 | 7,643,820 | 16,334,138 |
| 2007 | 7,703,380 | 2.064 | 15,903,109 | 7,703,380 | 15,903,109 |
| 2008 | 7,065,580 | 2.135 | 15,087,389 | 7,065,580 | 15,087,389 |
| 2009 | 6,721,144 | 2.110 | 14,180,454 | 6,987,990 | 14,464,440 |
| 2010 | 6,763,718 | 2.080 | 14,069,455 | 7,084,400 | 14,568,881 |
| 2015 | 7,611,722 | 2.085 | 15,867,809 | 8,046,352 | 16,302,440 |
| 2016 | 7,823,265 | 2.085 | 16,311,764 | 8,269,975 | 16,758,473 |
| EA Analysis Period | | | | | |
| 2020 | 8,680,886 | 2.087 | 18,113,067 | 9,176,566 | 18,608,747 |
| 2025 | 9,909,172 | 2.088 | 20,694,684 | 10,474,987 | 21,260,499 |
| Average Annual Growth Rate | | | | | |
| 2010-2025 | 2.6% | 0.0% | 2.6% | n/a | 2.6% |
| Long Term | | | | | |
| 2030 | 11,313,215 | 2.090 | 23,648,339 | 11,959,201 | 24,294,325 |
| Average Annual Growth Rate | | | | | |
| 2010-2030 | 2.6% | 0.0% | 2.6% | 2.7% | 2.6% |

(a) Table A.4.1. Originations without Southwest Factor.

(b) Attachment 5, Table 5.2.

(c) Base originations multiplied by Southwest factor.

(d) Table A.4.1. Total originations including Southwest factor.

(e) Base enplanements plus originations resulting from Southwest factor.

Sources: As noted and HNTB analysis.

4.5 Domestic Projections by Market

Since some of the end products of this forecast include detailed gated flight schedules for use in airfield simulation, gate requirements analyses, and noise simulation, domestic passenger forecasts were disaggregated by individual market. The approach involved the following steps:

- Project future average domestic load factor.
- Project future domestic annual scheduled seat departures.

- Estimate new non-stop markets.
- Allocate annual scheduled seat departures by market.
- Calculate average weekday peak month (AWDPM) seat departures by market.
- Prepare air service projections for each market estimating the number AWDPM flights that would serve each market, identified by airline and aircraft type.

4.5.1 Load Factor and Seat Departure Forecast

Table 5.3 shows projected domestic load factor for MSP. Over the past several years, the airline industry has experienced a significant increase in the average boarding load factor on both domestic and international flights. The load factor average has increased dramatically, from an average in the mid- to upper-50 percent range in the early 1980s to close to 80 percent nationally in 2010. This growth had been fueled by a strong economy coupled with strong travel demand, and has been maintained by actions by the airlines to remove capacity from their systems and to use sophisticated yield management procedures. Since national load factors have recently been at historically high levels, the FAA does not project them to go significantly higher. Average MSP load factors were assumed to follow the national trend.

Total annual scheduled seat departures were estimated by dividing the passenger enplanement projections by the load factor projections (Table 5.3).

4.5.2 Seat Departures by Market

MSP scheduled seat departures in each market were projected to increase from 2010 at the same rate as total domestic MSP seat departures, adjusted by the relative difference in income growth in the destination markets. As seen in the forecasting equation, there is a strong relationship between income and passenger demand. Therefore, it is reasonable to assume that the relative growth rate in each region's demand and service levels to the Twin Cities area will vary in relation to each region's growth in personal income relative to the United States. Woods & Poole Economics was used as the source of income forecasts by market.

A critical element of the forecasts is the determination of new non-stop markets. Candidate markets for non-stop domestic air carrier service were determined by identifying the current thresholds of total revenue (passengers multiplied by average fare) that justified non-stop service to MSP. A market's total revenue includes revenue from both originating and potential connecting passengers and is therefore a better measure of the market's value to the airline than just originating revenue to MSP. These thresholds are presented in Table 5.4. Thresholds are lower for nearby markets than more distant markets because service can be offered with smaller aircraft and because there is less competition from connecting hubs between the two markets. Thresholds of revenue necessary to justify non-stop service were estimated using the average of revenue in the smallest market with non-stop service and the largest market without non-stop service in each mileage band (0-300 miles, 301-500 miles, 501-700 miles, etc.). These thresholds are in large part determined by aircraft capabilities. For example, there is a

big jump in the threshold above 1,300 miles because that is beyond the capability of most regional jets. Therefore, these more distant markets would need to be large enough to justify mainline aircraft.

In markets to the west of MSP, specifically the rest of Minnesota, the Dakotas, and Montana, MSP is the most realistic connecting hub to most destinations. Since these are essentially “captive” markets, the ratio of connections to originations tends to be very high and the revenue threshold required for non-stop service tends to be lower. This is reflected in Table 5.4 which shows lower thresholds for markets to the west of MSP.

It was assumed that revenue in each market would increase at the same rate as the forecast of total MSP domestic airline revenue. New markets that are projected to grow sufficiently to justify non-stop service to MSP are shown in Table 5.5.

No service stimulation was assumed for traffic at new non-stop markets. Experience at other airports indicates that the stimulation effect is less than 10 percent and often less than 5 percent. In addition, the historical growth in Twin Cities’ area originations has been caused, in part, by new non-stop service. Therefore, the forecasting equation implicitly includes the effect of new service stimulation. Including additional service stimulation would result in double counting.

Markets that were most likely to attract non-stop service by Southwest Airlines were identified based on the current level of originating traffic to MSP and the current Southwest share of those markets.

The individual market seat departure forecasts were proportionately adjusted as necessary so that they would sum to the forecast of total domestic scheduled seat departures.

The market-by-market annual seat departure forecasts are presented in Table 5.6. Forecast AWDPM seat departures were estimated by applying the current ratio of AWDPM seat departures to annual seat departures to the forecast of annual seat departures for each market. The forecasts of AWDPM seat departures by market are presented in Table 5.7.

4.6 Air Service Projections

The AWDPM seat departure projections were translated into projections of scheduled aircraft flights for each market using a set of assumptions regarding airline strategies and available equipment. The service projections are guided by the general assumptions outlined in Section 3. Based on previous surveys and discussions with the major airlines operating at MSP, industry publications, and professional experience, additional, more detailed air service assumptions were developed, as listed below:

- No radical changes in airline strategy for how to serve and compete in markets is assumed.

- The current pattern of airline dominance at other airport hubs and non-hubs is assumed to remain substantially in place.
- Delta Air Lines (including its Sky Team partners) is assumed to continue to maintain a near constant share of the MSP market, after allowance for the expansion of Southwest Airlines.
- Based on recent trends and airline surveys and interviews, service by turboprops and 50-seat regional jets is expected to decline significantly, and be replaced with service by larger jets at lower frequencies.
- Carriers that do not currently provide service to MSP, such as Jet Blue, are assumed to gradually introduce service from their main focus cities.
- Delta Air Lines is assumed to continue its current directional connecting bank structure.
- The existing connecting bank structure limits the number of Delta Air Lines daily frequencies to medium and long-haul markets to six, or seven at most. It is assumed that once the frequency limit is reached, Delta will accommodate increases in demand with larger gauge aircraft rather than increases in frequency. Once Delta “maxed out” a market both in terms of frequency and aircraft gauge, it was assumed that additional connecting traffic would be diverted through other hubs.
- Full integration of the Delta and former Northwest fleets is assumed by 2015.
- Delta Air Lines is assumed to continue to gradually remove the hush-kitted DC9 aircraft from its fleet, and completely remove them by 2015.
- It is assumed that Delta will phase-out the 757 and MD80 aircraft before 2030.
- It is assumed that the Saab 340 aircraft will be completely phased out by 2030.
- In the short range growth in the 76-seat CRJ-900 and EMB 175 aircraft fleet is anticipated to be capped because of scope clause restrictions. Once the Delta mainline fleet begins to grow again, it is assumed that 76-seat jets will grow at a similar rate.
- The replacement aircraft for the 757 is assumed to be the Airbus 321, but it is acknowledged that the replacement aircraft could be a Boeing 737-900 or a completely new next generation aircraft.
- The MD-90 is assumed to be the principal narrow-body growth aircraft in the short term, and the Boeing 737-800 is assumed to be the principal narrow-body growth aircraft in the long-term. It is acknowledged that an Airbus neo aircraft or completely new next generation aircraft could also be the growth aircraft during the latter part of the forecast period.

- It is assumed that 50-seat turboprop aircraft will gradually replace the Saab 340 in small short-haul markets.
- Southwest Airlines is assumed to fly mostly Boeing 737-700 aircraft through the forecast period, supplemented by some Boeing 717 aircraft from the AirTran acquisition and some Boeing 737-800 aircraft.
- Future schedule information provided by Sun Country was reviewed in estimating future Sun Country markets. Sun Country is assumed to continue to fly Boeing 737-700 and 737-800 aircraft.
- United Airlines and Continental Airlines are assumed to fully integrate their fleets.
- American Airlines is expected to gradually replace its MD-80 aircraft with newer Boeing aircraft, specifically the 737-800.
- Future fleet additions beyond those presently announced by the airlines are assumed to be consistent with current announced fleet expansion plans and existing acquisitions.
- No supersonic, hypersonic, or tilt-rotor aircraft are projected because of poor operating economies and potential noise impacts.

Using the above assumptions for guidance, air service scenarios were developed for each market in each forecast year. The scenarios were developed so that the selected aircraft types and frequencies in combination matched the AWDPM seat departure projections for that market. Factors considered in each market included historical service patterns, current dominant carriers, aircraft in place and on order, length of haul, and announced plans of current carriers and new entrants. Individual market scenarios are presented in Table 5.8.

4.7 Domestic Passenger Forecast Summary

Table A.4.3 summarizes the forecast of domestic passenger enplanements and aircraft operations for MSP. Table A.4.3 also shows the forecast of scheduled domestic aircraft operations. Completed aircraft departures are slightly less than the scheduled aircraft departures identified in Table 5.9, because typically approximately 1 to 2 percent of scheduled flights are cancelled for weather, mechanical, or miscellaneous other reasons. Total scheduled domestic passenger aircraft departures are projected to increase at 1.3 percent per year through 2025. Table 5.9 presents the forecast of AWDPM scheduled aircraft departures by aircraft type.

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Table A.4.3

Forecast of Domestic Scheduled Passenger Aircraft Operations and Seat Departures at MSP

| | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|------------------------------------|------------|------------|------------|--------------------|------------|------------|
| | | | | 2020 | 2025 | 2030 |
| Scheduled Aircraft Departures | | | | | | |
| AWDPM (a) | 577.0 | 592.6 | 605.7 | 655.9 | 715.7 | 773.6 |
| Annual (b) | 186,101 | 187,371 | 191,503 | 207,632 | 226,687 | 245,966 |
| Completed Aircraft Departures | | | | | | |
| Annual (c) | 183,926 | 185,180 | 189,264 | 205,205 | 224,037 | 243,090 |
| Ratio (Completed to Scheduled) (d) | 0.988 | 0.988 | 0.988 | 0.988 | 0.988 | 0.988 |
| Completed Aircraft Operations (e) | 367,851 | 370,360 | 378,528 | 410,410 | 448,074 | 486,180 |
| Scheduled Aircraft Seat Departures | | | | | | |
| AWDPM (f) | 58,940 | 66,542 | 68,351 | 75,496 | 86,000 | 97,779 |
| Annual (g) | 18,741,711 | 20,743,014 | 21,306,965 | 23,563,283 | 26,856,266 | 30,651,710 |
| Seats per Departure | | | | | | |
| AWDPM (h) | 102.1 | 112.3 | 112.9 | 115.1 | 120.2 | 126.4 |
| Annual (i) | 100.7 | 110.7 | 111.3 | 113.5 | 118.5 | 124.6 |
| Enplanements (j) | 14,568,881 | 16,302,440 | 16,758,473 | 18,608,747 | 21,260,499 | 24,294,325 |
| Enplanements per Departure (k) | 79.2 | 88.0 | 88.5 | 90.7 | 94.9 | 99.9 |

(a) Attachment 5, Table 5.9.

(b) Scheduled seat departures divided by annual average aircraft size.

(c) Existing departures from MSP Monthly Summary Reports. Future completed departures estimated by multiplying scheduled departures by completion ratio.

(d) Assumed to remain constant at 2010 levels.

(e) Completed aircraft departures multiplied by 2.

(f) Attachment 5, Table 5.8.

(g) Attachment 5, Table 5.3.

(h) AWDPM seat departures divided by AWDPM aircraft departures.

(i) Assumed to increase at same rate as AWDPM seats per departure.

(j) Table A.4.2.

(k) Enplanements divided by completed aircraft departures.

Sources: As noted and HNTB analysis.

5 International Passenger Forecasts

This section discusses the international passenger forecasts, including assumptions, methodologies, and results.

5.1 Methodology, Assumptions, and Data Sources

The methodology used to develop the international passenger forecasts was essentially a top-down approach adjusted to reflect local conditions. The type of bottom-up approach that was used to estimate domestic passenger traffic was not suitable for the international passenger forecast for several reasons. First, O&D data for passengers flying their entire itinerary on foreign-flag carriers is not available; therefore, the historical record is incomplete. Second, many of the international markets are still being developed, so insufficient historical data exists

from which to establish trends. Finally, past international service has been constrained by physical factors, such as distance, and political factors, such as bilateral agreements. These constraints tend to obscure the relationship between traditional drivers of demand, such as income and yield, and international passenger traffic.

A top-down approach provides an opportunity to exploit the research and analysis into international travel conducted by the FAA and major aircraft manufacturers, such as Boeing and Airbus. These organizations have much greater resources available to investigate the factors driving international demand, and are able to incorporate the findings into their forecasts. The selected top-down approach can be summarized as follows:

1. Develop forecasts of U.S. international passenger traffic by major region.
2. Estimate future Twin Cities' share of U.S. international passenger originations in each region.
3. Estimate future Twin Cities' international passenger enplanements from originations forecast.
4. Disaggregate regional forecasts into individual markets.
5. Identify potential new non-stop markets.
6. Develop passenger forecasts by market.
7. Estimate future load factor.
8. Project future seat departures by market using the passenger and load factor forecasts.
9. Estimate the most probable way that airlines would accommodate the seat departure forecast in terms of aircraft type and scheduled frequency.
10. Convert the passenger forecast to enplanements using local airport enplanement data.
11. Convert the scheduled aircraft departure forecast to actual departures using historical departure completion data.

The methodology will be described in greater detail in subsequent sections of this report.

The following data sources were used in the analysis:

- FAA, Boeing, and Airbus international projections.
- USDOT International Schedule T-100 data base.
- USDOT International O&D Survey.

- OAG information on scheduled operations, which was used to determine current scheduled service.
- The OAG, and JP Airline-Fleets International guide, which were used to determine aircraft seat configurations for each airline.
- JP Airline-Fleets International and other industry publications, which were used to gather information on airline fleet orders.

5.2 Forecasts by International Region

Table 6.1 in **Attachment 6**, *Detailed International Passenger Forecast*, presents a comparison of international forecast growth rates developed by the FAA, Boeing, and Airbus. The projections show agreement in some areas, such as Europe, but vary in other regions. For example, Boeing is more optimistic about America than the FAA.

A consensus forecast was developed for each region using the average of the forecast indexes from the three organizations. Based on the consensus forecast, the Middle East, South America, and Africa are expected to grow most rapidly, followed by Asia and Oceania. More mature markets, such as Europe, Canada and Mexico/Central America, are expected to grow more slowly.

5.3 MSP Forecasts by Region

The estimated existing breakout of international originations from MSP by world region is provided in Table 6.2. The estimate is complicated by two factors. First, foreign-flag carriers are not required to submit originating data to the U.S. DOT. Secondly, international originating data submitted by the US-flag carriers is restricted, and cannot be published publicly. The estimates in Table 6.2 were prepared by adding estimated foreign-flag originations (based on a percentage of enplanements) to the US DOT originating passenger numbers. The two largest international markets are Europe and Mexico and Central America, followed by Asia, Canada, and the Caribbean.

Table 6.3 shows projected MSP international originations. The basis for the projections is the regional growth rates from Table 6.1 with two adjustments. First, the 2010 projections were adjusted upward to reflect actual 2010 international enplanements at MSP. Secondly, the growth rates in Table 6.1 were adjusted by the difference in estimated Twin Cities' income growth and U.S. income growth to incorporate the impact of the local economy. As shown, total international originations at MSP are projected to rise from 706,128 in 2010 to about 1.3 million by 2025.

5.4 MSP International Enplanement Forecast

Similar to the domestic forecast approach, future international passenger enplanements were estimated by applying a hubbing ratio to the forecast of international originations. The international hubbing ratio at MSP has begun to decrease in recent years, in part because of the

Delta/Northwest merger. There is a question as to whether the current hubbing ratio can be sustained after Delta's acquisition of Northwest, because of Delta's heavy investment in international facilities at Hartsfield-Jackson Atlanta International Airport (ATL), DTW, and John F. Kennedy International Airport (JFK). For these reasons, it was assumed that the future international hubbing ratio would change at the historical 2001-2010 rate but the rate of change would slow to half its historical rate. Table 6.4 shows the estimated future international ratio of enplanements to originations and **Table A.5.1** shows the future forecast of international enplanements at MSP. Total international enplanements are projected to increase from about 1.1 million in 2010 to 2.1 million in 2030, an average annual increase of 3.1 percent.

In summary, the international passenger forecast incorporates the consensus FAA, Boeing and Airbus forecasts for international growth in each world region, but modifies these projections to incorporate local factors. The local modifications consist of two parts. First, the MSP international O&D forecast is adjusted downward to reflect a regional Minneapolis-St. Paul economy that is expected to grow more slowly than the U.S. Economy (see Table 1.8). Secondly, the international connecting ratio at MSP is projected to gradually decline, reflecting Delta's current emphasis on developing other gateways, such as Detroit, Atlanta, and New York JFK instead of MSP.

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Table A.5.1

Forecast of International Enplanements at MSP

| Year | International Originations (a) | International Hubbing Ratio (b) | International Enplanements (c) |
|-----------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| 2006 | 654,297 | 1.059 | 692,757 |
| 2007 | 709,046 | 1.383 | 980,460 |
| 2008 | 718,963 | 1.759 | 1,264,507 |
| 2009 | 644,281 | 1.645 | 1,059,969 |
| 2010 | 706,128 | 1.616 | 1,141,442 |
| 2015 | 895,030 | 1.488 | 1,331,485 |
| 2016 | 931,500 | 1.468 | 1,367,795 |
| EA Analysis Period | | | |
| 2020 | 1,093,314 | 1.431 | 1,564,092 |
| 2025 | 1,336,925 | 1.358 | 1,815,444 |
| Average Annual Growth Rate | | | |
| 2010-2025 | 4.3% | -1.2% | 3.1% |
| Long Term | | | |
| 2030 | 1,636,550 | 1.289 | 2,109,421 |
| Average Annual Growth Rate | | | |
| 2010-2030 | 4.3% | -1.1% | 3.1% |

(a) Attachment 6, Table 6.3.

(b) Attachment 6, Table 6.4.

(c) Originations multiplied by international hubbing ratio.

Sources: As noted and HNTB analysis.

5.5 International Passenger Projections by Market

This section discusses the forecasts of MSP international passengers, first in markets with existing non-stop service, then in potential new markets.

5.5.1 Existing Markets

International originations in existing and potential non-stop markets were projected to increase at the same rate as the consensus growth indexes for each region developed in Table 6.1. Details of the calculations are presented in Table 6.5.

5.5.2 New Markets

Similar to the methodology used for domestic markets, passenger thresholds were used to identify potential new international non-stop markets. The process was more difficult because

international originating passenger data is not available for foreign-flag carriers. Therefore, several threshold criteria were used to estimate new markets. The methodology involved the following steps:

1. *Identify originating passenger thresholds for non-stop service in each region.* Thresholds will vary by region because a) shorter-haul markets require smaller aircraft and thus reduce the required threshold and b) the direction of the market will determine how much connecting traffic can logically be funnelled through the MSP gateway, thereby reducing the required originating passenger percentage. For example, most East Coast U.S. passengers can fly to Asia or western Canada via MSP with relatively little increase in circuitry. However, those same passengers would incur much greater circuitry if they were to use MSP as a gateway to Europe. Originations in each potential market were assumed to grow at the rates in Table 6.3 to determine if and when they would exceed the threshold.
2. *Identify seat departure thresholds for non-stop service to each region.* As a crosscheck on the passenger data, seat departures from all U.S. gateways to international markets were identified. Similar to Step 1, the threshold for new service in each region was assumed to be the average of the smallest market (measured in terms of seat departures) with non-stop MSP service and the largest market without non-stop MSP service. Scheduled seat departures in each potential market were assumed to grow at the rates in Table 6.3 to determine if and when they would exceed the threshold. Table 6.6 shows the seat departure thresholds by region.
3. *Identify thresholds for regions with no existing service.* Some regions, such as Africa or China, have insufficient service history from which to identify originating passenger thresholds. In these instances, thresholds were adopted from other regions based on similar distance and circuitry characteristics. For example, European thresholds were used for Africa.
4. *Estimate new non-stop markets.* Information from the two sets of threshold criteria was integrated to estimate new non-stop markets. In general, any market that satisfied both threshold criteria was assumed to gain new non-stop service in the year in which those criteria were reached.

The new non-stop markets that were estimated using the above approach are listed in Table 6.5. The projections above are the best estimate of new market potential given available information. It is acknowledged that additional factors such as local economic trends, political circumstances, airline strategies, and market development initiatives may serve to either accelerate or delay the introduction of non-stop service to the markets listed in the Attachment.

5.5.3 Load Factor and Seat Departure Forecast

The load factor projections vary by market. Load factors in each region were projected to increase at the same rate as the FAA forecast load factor for that region. Projected seat departures in each market were estimated by dividing the passenger projections by the load

factor. Annual scheduled international seat departures at MSP are presented in Table 6.5. As shown, total scheduled international seat departures are projected to increase from 1.5 million in 2010 to 2.7 million by 2030. AWDPM seat departures were estimated by applying existing ratios of AWDPM to annual seat departures to the forecasts of annual seat departures.

5.6 Air Service Projections

The procedure used to allocate international passenger activity to airlines and aircraft equipment was similar to that used for the domestic air service projections. The following assumptions were used to guide the process:

- AWDPM aircraft types were projected to be consistent with the AWDPM seat departure forecast for each market, as presented in Table 6.5.
- The trend towards more Open Skies agreements is assumed to continue.
- No radical changes in airline strategy for how to serve and compete in markets are assumed.
- The current pattern of airline dominance at other airport hubs and gateways is assumed to remain in place.
- The current airline alliance structure is assumed to remain intact. Thus, SkyTeam members and code-sharing partners are expected to be more likely to provide service at MSP than other foreign-flag carriers.
- Except where noted, sufficient airport expansion in Europe and the Far East is anticipated to accommodate market demand.
- Delta is assumed to serve its overseas international markets with A-330s, Boeing 777's and Boeing 787's.
- Sun Country is assumed to serve its international markets with Boeing 737-700 and 737-800 aircraft, using refueling stops when necessary.
- Future fleet additions beyond those presently announced by the airlines are assumed to be consistent with current announced fleet expansion plans and existing acquisitions.
- No supersonic, hypersonic, or tilt-rotor aircraft are projected because of poor operating economies and potential noise impacts.

The air service projections for each international market are outlined in detail in Table 6.7. The air service scenarios presented in Table 6.7 are considered reasonable and plausible, given the available information. However, it is acknowledged that actual service patterns may deviate from those projected, and that these deviations could be material.

5.7 Summary

Table A.5.2 summarizes the unconstrained international scheduled passenger and aircraft operation forecasts. Total international enplanements are projected to increase from 1.1 million in 2010 to 2.1 million in 2030. Completed international aircraft operations are projected to increase from 26,556 in 2010 to 32,886 in 2025, an average annual increase of 1.4 percent.

Table 6.8 shows the scheduled international passenger fleet mix forecast. Although an increase in wide-body operations is anticipated, narrow-body aircraft operations to Canadian, Mexican and Caribbean markets are projected to account for the majority of the total.

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Table A.5.2

Forecast of International Scheduled Passenger Aircraft Operations and Seat Departures at MSP

| | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|------------------------------------|-----------|-----------|-----------|--------------------|-----------|-----------|
| | | | | 2020 | 2025 | 2030 |
| Scheduled Aircraft Departures | | | | | | |
| AWDPM (a) | 42.0 | 39.6 | 41.0 | 44.8 | 49.3 | 53.7 |
| Annual (b) | 13,458 | 13,679 | 13,977 | 14,965 | 16,666 | 18,237 |
| Completed Aircraft Departures | | | | | | |
| Annual (c) | 13,278 | 13,496 | 13,790 | 14,765 | 16,443 | 17,993 |
| Ratio (Completed to Scheduled) (d) | 0.987 | 0.987 | 0.987 | 0.987 | 0.987 | 0.987 |
| Completed Aircraft Operations (e) | 26,556 | 26,992 | 27,580 | 29,530 | 32,886 | 35,986 |
| Scheduled Aircraft Seat Departures | | | | | | |
| AWDPM (f) | 4,459 | 5,023 | 5,202 | 6,160 | 7,040 | 8,157 |
| Annual (g) | 1,505,939 | 1,736,730 | 1,798,544 | 2,027,989 | 2,351,155 | 2,722,441 |
| Seats per Departure | | | | | | |
| AWDPM (h) | 106.2 | 124.2 | 126.9 | 137.5 | 142.8 | 151.9 |
| Annual (i) | 111.9 | 127.0 | 128.7 | 135.5 | 141.1 | 149.3 |
| Enplanements (j) | 1,141,442 | 1,331,485 | 1,367,795 | 1,564,092 | 1,815,444 | 2,109,421 |
| Enplanements per Departure (k) | 86.0 | 98.7 | 99.2 | 105.9 | 110.4 | 117.2 |

(a) Attachment 6, Table 6.8.

(b) Scheduled seat departures divided by annual average aircraft size.

(c) Existing departures from MSP Monthly Summary Reports. Future completed departures estimated by multiplying scheduled departures by completion ratio.

(d) Assumed to remain constant at 2010 levels.

(e) Completed aircraft departures multiplied by 2.

(f) Attachment 6, Table 6.7.

(g) Attachment 6, Table 6.5.

(h) AWDPM seat departures divided by AWDPM aircraft departures.

(i) Assumed to increase at blended rate from international AWDPM seats per departure and domestic annual departures, to incorporate trends in Mexican/Latin American market that is primarily served by narrow-body aircraft.

(j) Table A.5.1.

(k) Enplanements divided by completed aircraft departures.

Sources: As noted and HNTB analysis.

6 Charter Enplanements and Aircraft Operations

The forecast of charter (non-scheduled) passenger enplanements and aircraft operations is discussed in this section.

6.1 Charter Passengers

Good historical data on charter activity is difficult to obtain and, therefore, it is not possible to develop a forecast using regression analysis or trend analysis. The FAA does not publish forecasts of national charter activity so a share analysis is not possible either. Typically, charter operators cater to tour groups traveling to leisure destinations or to sports teams traveling to road games.

Airport counts of charter passengers have declined significantly in recent years. This can be attributed to several factors:

- Sun Country, which has accounted for the majority of past charter operations, has placed more of an emphasis on scheduled operations, although in many instances to the same markets where they offered charter service.
- Some major charter operators, such as Champion, have ceased operations.
- Delta's flights to Mexico have cut into traditional charter markets.
- Continued price reductions by legacy carriers have diminished the price advantage that charter carriers can offer.

There is little indication that any of the above factors will be reversed. The entry of low fare service by Southwest Airlines will place additional pressure on charter operators. For these reasons, a return to earlier historical levels of charter passenger traffic is not expected. Charter traffic is projected to begin to increase again from its current low levels, given that the effect of most of the above factors has been already realized.

Table 7.1 in **Attachment 7, Non-Scheduled Passenger Forecasts**, shows the forecast of charter enplanements. The forecast assumes that Sun Country continues operating as principally a scheduled carrier. Total charter enplanements are projected to increase from fewer than 5,000 in 2010 to almost 8,000 in 2030. The historical approximately even split between domestic and international passengers is assumed to resume in the future.

6.2 Charter Aircraft Operations

Tables 7.2 and 7.3 shows the derivations of domestic and international charter aircraft operations from the passenger forecast. The tables also show the forecast fleet mix. Passenger aircraft departures for charter carriers were estimated as follows:

1. Assume constant load factors since they are already at very high levels.
2. Project total charter seat departures by dividing forecast enplanements by the projected load factor.
3. Estimate future fleet mix based on existing carrier fleets and available information on aircraft acquisition plans.
4. Calculate average seats per aircraft from the future fleet mix.
5. Divide forecast seat departures by projected seats per aircraft to generate projected charter aircraft departures and operations.

No attempt was made to forecast charter activity by market. Table 7.4 summarizes the forecast of charter aircraft operations. As shown, total passenger charter aircraft operations are

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projected to increase slightly from 103 in 2010 to 106 in 2025. Narrow-body aircraft are forecast to continue to account for the vast majority of charter operations.

7 Summary of Passenger Forecasts

Table A.7.1 summarizes the scheduled and non-scheduled domestic and international passenger enplanement forecasts. Total enplanements at MSP are projected to increase from 15.7 million in 2010 to 22.9 million in 2025, an average annual increase of 2.5 percent.

Table A.7.1

| Forecast of Annual Domestic and International Revenue Enplanements at MSP | | | | |
|--|--------------|-------------------|-------------|------------|
| Year | Domestic (a) | International (b) | Charter (c) | Total |
| 2006 | 16,334,138 | 692,757 | 151,412 | 17,178,307 |
| 2007 | 15,903,109 | 980,460 | 85,515 | 16,969,084 |
| 2008 | 15,087,389 | 1,264,507 | 32,376 | 16,384,272 |
| 2010 | 14,568,881 | 1,141,442 | 4,736 | 15,715,059 |
| 2015 | 16,302,440 | 1,331,485 | 5,316 | 17,639,241 |
| 2016 | 16,758,473 | 1,367,795 | 5,464 | 18,131,733 |
| EA Analysis Period | | | | |
| 2020 | 18,608,747 | 1,564,092 | 6,081 | 20,178,920 |
| 2025 | 21,260,499 | 1,815,444 | 6,956 | 23,082,899 |
| Average Annual Growth Rate | | | | |
| 2010-2025 | 2.6% | 3.1% | 2.6% | 2.6% |
| Long Term | | | | |
| 2030 | 24,294,325 | 2,109,421 | 7,960 | 26,411,706 |
| Average Annual Growth Rate | | | | |
| 2010-2030 | 2.6% | 3.1% | 2.6% | 2.6% |

(a) Table A.4.2.

(b) Table A.5.1.

(c) Attachment 7, Table 7.1.

Sources: As noted and HNTB analysis.

8 Air Cargo Tonnage and Aircraft Operations

The forecasts of air cargo tonnage and related all-cargo aircraft operations are discussed in this section.

Table 8.1 in **Attachment 8, Detailed Cargo Forecasts**, shows historical enplaned air cargo, including both freight and mail, at MSP from 1990 through 2010. In the early part of the decade FedEx won a major postal service (USPS) contract to carry mail and they include mail with cargo when reporting statistics. Hence, the apparent recent downturn in air mail at MSP is mostly an artifact of changes in reporting practices. Air cargo tonnage at MSP grew rapidly in the 1980s and then at a slower rate through 1997. It has since declined, in part because of the stricter security restrictions imposed after the September 11, 2001 terrorist attacks. The stricter security restrictions have led to an especially sharp downturn in air cargo carried on passenger carriers. Cargo carried on all-cargo carriers continued to increase through 2004 but has since also declined.

8.1 Air Cargo Tonnage

As noted earlier, some carriers have ceased distinguishing between air mail and air freight when reporting their statistics. Consequently, the forecast contained herein combines freight and mail into a single air cargo category. All statistics are presented in short tons (2000 pounds per ton).

Table 8.1 shows the forecasts of air cargo at MSP. There are two main categories of air cargo tonnage, 1) cargo carried on passenger aircraft (belly cargo) and 2) cargo carried on dedicated all-cargo aircraft. Separate approaches were developed to forecast each category.

Forecasts of belly cargo activity are based in part on FAA forecasts of revenue ton miles (RTMs) of air cargo traveling on domestic passenger carriers. An index was developed which related the FAA forecast of RTMs on domestic passenger carriers to the forecast of Available Seat Miles (ASM) for domestic air carriers. This ratio provided the expected future relationship of cargo to available seats. This index was then applied to the forecasts of scheduled seat departures prepared in Sections 4 and 5 to produce a belly cargo forecast for MSP.

As shown in **Table A.8.1**, enplaned belly cargo is projected to decline slightly from 21,943 tons in 2010 to 21,403 tons in 2025, remaining well below the belly cargo tonnages experienced in the 1990s. Increased security restrictions and strong competition from the dedicated all-cargo carriers will make it difficult for passenger carriers to recapture market share.

All-cargo carrier air cargo tonnage was estimated as a share of the FAA forecast of domestic all-cargo RTMs. All-cargo carrier tonnage at MSP roughly paralleled U.S. all-cargo carrier RTMs in the 1990s but has declined since 2003. The MSP share was assumed to continue to decline but at half the rate of the recent past, reflecting a combination of long-term and short-term historical rates. Enplaned all-cargo tonnage is forecast to increase slightly from 89,990 tons in 2010 to 102,005 tons in 2025, an average annual increase of 0.8 percent.

Table A.8.1 summarizes the cargo tonnage forecast. The ratio of deplaned to enplaned cargo tonnage was assumed to equal the 2007-2008 average in the future. Combined belly and all-cargo carrier enplaned tonnage is forecast to increase at a 0.4 percent annual rate from 111,933 tons in 2010 to 123,408 tons in 2025.

Table A.8.1
Forecast of Enplaned and Deplaned Air Cargo (Short Tons) at MSP

| Year | Passenger Carrier (a) | | Total | Cargo Carrier (a) | | Total | Total | |
|-----------|-----------------------|----------|--------|-----------------------------------|----------|---------|----------|----------|
| | Enplaned | Deplaned | | Enplaned | Deplaned | | Enplaned | Deplaned |
| 2007 | 25,124 | 28,745 | 53,870 | 116,058 | 113,849 | 229,908 | 141,182 | 142,595 |
| 2008 | 24,179 | 27,412 | 51,591 | 102,508 | 103,018 | 205,526 | 126,687 | 130,430 |
| 2010 | 21,943 | 24,993 | 46,936 | 89,990 | 89,291 | 179,281 | 111,933 | 114,284 |
| 2015 | 21,683 | 24,698 | 46,381 | 102,508 | 101,711 | 204,219 | 124,191 | 126,409 |
| 2016 | 21,709 | 24,727 | 46,436 | 102,280 | 101,485 | 203,765 | 123,989 | 126,212 |
| | | | | | | | | |
| | | | | EA Analysis Period | | | | |
| 2020 | 21,540 | 24,534 | 46,074 | 102,291 | 101,496 | 203,787 | 123,830 | 126,030 |
| 2025 | 21,403 | 24,378 | 45,781 | 102,005 | 101,212 | 203,218 | 123,408 | 125,591 |
| 2010-2025 | -0.2% | -0.2% | -0.2% | Average Annual Growth Rate | | 0.8% | 0.8% | 0.6% |
| | | | | | | | 0.7% | 0.6% |
| | | | | Long Term | | | | |
| 2030 | 21,237 | 24,190 | 45,427 | 101,465 | 100,676 | 202,141 | 122,702 | 124,866 |
| 2010-2030 | -0.2% | -0.2% | -0.2% | Average Annual Growth Rate | | 0.6% | 0.6% | 0.4% |
| | | | | | | | 0.5% | 0.5% |

(a) Attachment 8, Table 8.1 and MSP Monthly Summary Reports. Deplaned cargo assumed to increase at same rate as enplaned cargo.

Sources: As noted and HNTB analysis.

8.2 All-Cargo Aircraft Operations

Table 8.2 presents the forecast of all-cargo aircraft operations and fleet mix.

The future all-cargo carrier fleet mix was estimated based on available information on future aircraft acquisition plans by the carriers serving MSP. The average lift capacity per aircraft operation was estimated from the projected fleet mix and future all-cargo carrier aircraft departures were estimated by dividing total all-cargo carrier lift capacity by the capacity per aircraft. Load factors in 2010 were unusually low, so 2008 load factors were used for the purpose of estimating future required all-cargo lift capacity. No attempt was made to forecast cargo activity by market.

Total all-cargo aircraft operations are projected to rise from 12,499 in 2010 to 12,826 in 2025, an average annual rate of 0.2 percent.

9 General Aviation and Military Operations

This section discusses the forecasts of general aviation and military operations.

9.1 General Aviation

In contrast to commercial activity at MSP, general aviation (GA) activity has been declining in the long-term. This mirrors the experience at many other major airports, where many GA operators have relocated to reliever airports to avoid the congestion generated by scheduled commercial operations.

The LTCP forecasts for the MAC Reliever Airport System (Reliever Airport forecast) provided much of the basis of the GA forecast for MSP. The study was selected because it was performed on a system basis, and therefore takes into account the interactions resulting from the differing growth rates among the Twin Cities counties and the differing capabilities and capacities of the airports in the system.

Table A.9.1 shows the based aircraft forecast for MSP, which comes from the Reliever Airport forecasts. Based on available hangar facilities, the maximum capacity was estimated at 30 aircraft. Based aircraft in each category were projected to grow at national trends, adjusted for local factors, until the capacity limit was achieved. As shown, all based aircraft are anticipated to be jets, as is the existing case.

Table 9.1 in **Attachment 9, Detailed General Aviation Forecasts**, shows the MSP forecast of GA operations based on the methodology in the Reliever Airport forecast. As shown, even with the constraint on based aircraft, the anticipated increase in jet aircraft utilization results in a growing number of GA aircraft operations. The Reliever Airport methodology addresses hangar capacity but does not address airfield capacity and delay.

Table A.9.2 shows the recent history of GA operations at MSP and compares it to the FAA count of itinerant GA operations in the US. As shown, MSP GA activity, as a share of the

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United States, has been consistently declining. GA activity in the US rose in the late 1990s but then declined as a result of the recession and the 9/11 attacks. Since 2001, US GA activity (itinerant operations) had been relatively constant until the fuel price increases and recession of the past three years. The FAA predicts that GA will begin to recover in the near future and resume moderate growth, primarily focused on jets, helicopters and light sport aircraft.

Table A.9.1

Summary of MSP Based Aircraft Forecast

| Year | Single Engine Piston | Multi-Engine Piston | Turboprop | Microjets | Other Jets | Helicopter | Other (b) | Total |
|-----------------------------------|----------------------|---------------------|-----------|-----------|------------|------------|-----------|-------|
| 2008 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 24 |
| 2010 | 0 | 0 | 0 | 1 | 26 | 0 | 0 | 27 |
| 2015 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| 2016 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| EA Analysis Period | | | | | | | | |
| 2020 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| 2025 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| Average Annual Growth Rate | | | | | | | | |
| 2010-2025 | - | - | - | - | 0.7% | - | - | 0.7% |
| Long Term | | | | | | | | |
| 2030 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| Average Annual Growth Rate | | | | | | | | |
| 2010-2030 | - | - | - | - | 0.5% | - | - | 0.5% |

Source: Table G.6 in Minneapolis-St. Paul Reliever Airports: Activity Forecasts - Technical Report.

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Table A.9.2

Forecast of Annual General Aviation Aircraft Operations at MSP

| Year | FAA Itinerant GA Ops (000's) (a) | Ratio of MSP Operations to US Operations (b) | MSP Operations from Ratio Method (c) | MSP Operations from Reliever LTCP Method (d) | Average (e) |
|-----------------------------------|--|--|---|---|-------------|
| 1995 | 20,860 | 2.39 | 49,769 | | |
| 1996 | 20,823 | 2.39 | 49,786 | | |
| 1997 | 21,669 | 2.96 | 64,209 | | |
| 1998 | 22,086 | 3.61 | 79,757 | | |
| 1999 | 23,019 | 2.14 | 49,256 | | |
| 2000 | 22,844 | 2.54 | 58,076 | | |
| 2001 | 21,433 | 2.14 | 45,943 | | |
| 2002 | 21,451 | 2.06 | 44,279 | | |
| 2003 | 20,231 | 1.95 | 39,513 | | |
| 2004 | 20,007 | 1.95 | 39,018 | | |
| 2005 | 19,303 | 1.89 | 36,472 | | |
| 2006 | 18,707 | 2.00 | 37,459 | | |
| 2007 | 18,575 | 1.65 | 30,562 | | |
| 2008 | 17,521 | 1.75 | 30,685 | 30,685 | |
| 2009 | 15,554 | 1.57 | 24,361 | | |
| 2010 | 14,982 | 1.86 | 27,921 | 32,793 | |
| 2015 | 15,948 | 1.64 | 26,178 | 39,140 | 29,751 |
| 2016 | 16,156 | 1.60 | 25,855 | 39,594 | 29,783 |
| EA Analysis Period | | | | | |
| 2020 | 17,021 | 1.45 | 24,609 | 41,413 | 29,934 |
| 2025 | 18,178 | 1.27 | 23,148 | 43,289 | 30,003 |
| Average Annual Growth Rate | | | | | |
| 2010-2025 | 1.3% | -2.5% | -1.2% | 1.9% | 0.5% |
| Long Term | | | | | |
| 2030 | 19,427 | 1.12 | 21,790 | 44,903 | 30,011 |
| Average Annual Growth Rate | | | | | |
| 2010-2030 | 1.3% | -2.5% | -1.2% | 1.6% | 0.4% |

(a) FAA Aerospace Forecast: Fiscal Years 2010-2030.

(b) Ratio of MSP GA operations to thousands of US operations. Assumed to change at historical rate in the future.

(c) Historical from Table A.2.3. Future estimated by multiplying FAA forecast by ratio of MSP operations to US operations.

(d) Unconstrained GA forecasts estimated using methodology in Minneapolis-St. Paul Reliever Airports: Activity Forecasts - Technical Report.

(e) Average of Ratio and LTCP methods.

Sources: As noted and HNTB analysis.

Table A.9.2 also shows the MSP GA forecast if the Airport share of U.S. GA activity is assumed to continue to decline at historical rates. As shown, under this assumption, GA operations would decline at a 1.2 percent annual rate to slightly over 23,000 by 2025.

The Reliever Airport methodology accounts for the anticipated stimulation resulting from the higher utilization of jet aircraft while the US share methodology captures the ongoing trend of GA operators diverting their aircraft from MSP to one of the regional reliever airports. The recommended forecast incorporates both trends by taking the average of the two methodologies. As shown in Table A.9.2, based on the average, total GA operations are projected to increase slightly from 27,921 in 2010 to 30,003 in 2025, an average annual increase of 0.5 percent per year.

Forecast operations by aircraft type are shown in Table 9.1. Based on current practices at MSP, all these operations are projected to be itinerant operations. Operations in each GA aircraft category were assumed to grow at the same rate as FAA forecast of hours flown in that category. The results were then adjusted on a prorated basis to sum to the original forecast of GA aircraft operations. The result, as shown in the table, is a slight increase in jet operations through 2025, while turboprop and piston operations decrease.

9.2 Military

Military operations are related to national and international political and institutional factors rather than local economic conditions. The number of military operations at MSP decreased during most of the 1980s and early 1990s and then leveled off after a spike in activity in 2001. Discussions with the United States Air Force National Guard and Reserve indicated no changes in mission that would result in a material change in the number of aircraft operations. Due to the uncertainties enumerated above and consistent with interview results and the principal trend occurring since 1990, military operations are assumed to remain constant at 2010 levels throughout the forecast period. This assumption is consistent with FAA forecasts of national military activity. However, future national defense actions could increase or decrease future military operations.

Table A.9.3 shows the forecast of military operations. As shown, annual operations are projected to remain constant at 2,145 in the future.

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Table A.9.3

Forecast of Annual Military Aircraft Operations at MSP

| Year | Total (a) |
|-----------------------------------|-----------|
| 1990 | 2,804 |
| 1991 | 2,534 |
| 1992 | 3,003 |
| 1993 | 2,825 |
| 1994 | 2,451 |
| 1995 | 2,915 |
| 1996 | 2,624 |
| 1997 | 3,624 |
| 1998 | 2,044 |
| 1999 | 3,358 |
| 2000 | 2,473 |
| 2001 | 3,180 |
| 2002 | 2,543 |
| 2003 | 1,856 |
| 2004 | 1,976 |
| 2005 | 2,230 |
| 2006 | 2,040 |
| 2007 | 2,289 |
| 2008 | 2,115 |
| 2009 | 1,892 |
| 2010 | 2,145 |
| 2015 | 2,145 |
| 2016 | 2,145 |
| EA Analysis Period | |
| 2020 | 2,145 |
| 2025 | 2,145 |
| Average Annual Growth Rate | |
| 2010-2025 | 0.0% |
| Long Term | |
| 2030 | 2,145 |
| Average Annual Growth Rate | |
| 2010-2030 | 0.0% |

(a) Table A.2.3 for historical data. Assumed to remain constant in future.

Sources: As noted and HNTB analysis.

10 Summary of Annual Forecasts

This section summarizes the passenger and aircraft operation forecasts.

Table A.10.1 provides a summary of the passenger forecasts. Total revenue enplanements are forecast to increase from 15.7 million in 2010 to 23.1 million in 2025, an average annual increase of 2.6 percent. Originating passengers are projected to increase from 7.8 million to 11.8 million over the same period. As a percentage of enplanements, originations are projected to increase, but with the majority of the increase occurring in the early part of the period as a result of Southwest's entry into the market. The percentage of enplanements accounted for by originations is expected to increase from 50 percent in 2010 to 52 percent by 2025.

Table A.10.2 summarizes the unconstrained forecast of aircraft operations at MSP. Total aircraft operations are estimated to increase from 437,075 in 2010 to 526,040 in 2025, an average annual increase of 1.2 percent. The scheduled passenger operation categories are projected to grow the most rapidly, and air cargo, general aviation, and military aircraft operations are projected to grow more slowly.

Table A.10.3 provides a year-by-year forecast of total enplanements and aircraft operations. Values for years other than 2015, 2016, 2020, 2025 and 2030 were interpolated.

The passenger and aircraft operation forecasts in Tables A.10.1 and A.10.2 are based on regional economic projections, industry forecasts of average air fares, airline fleet plans, and trends in the passenger connecting percentage. The demand generated by these factors is the impetus for the proposed terminal and landside facility improvements covered by this EA.

As noted in the introduction, a no-action analysis is required to evaluate the net environmental impacts of the proposed improvements. The no-action design day flight schedule (see Section 11) and associated airfield simulation analysis demonstrate that the airlines would need to make some changes in their scheduled flight times to accommodate projected demand with existing facilities through 2025. However, they would still be able to accommodate projected daily and annual demand albeit at a reduced level of service. Therefore, the induced aviation activity (difference between project and no-action activity) resulting from the proposed facility improvements consists of a redistribution of existing activity rather than creation of new activity for the duration of the evaluation period of this EA (2020-2025).

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Table A.10.1
Summary of Passenger Forecast at MSP

| | 2007 | 2008 | 2010 | 2015 | 2016 | EA Analysis Period | | | Long Term | |
|---|------------|------------|------------|------------|------------|--------------------|------------|------------|-------------|-------------|
| | | | | | | 2020 | 2025 | 2030 | (2010-2030) | |
| | | | | | | | | | Growth Rate | Growth Rate |
| Enplanements | | | | | | | | | | |
| Domestic Scheduled Air Carrier (a) | 15,903,109 | 15,087,389 | 14,568,881 | 16,302,440 | 16,758,473 | 18,608,747 | 21,260,499 | 24,294,325 | 2.6% | 2.6% |
| International Scheduled Air Carrier (b) | 980,460 | 1,264,507 | 1,141,442 | 1,331,485 | 1,367,795 | 1,564,092 | 1,815,444 | 2,109,421 | 3.1% | 3.1% |
| Subtotal Scheduled | 16,883,569 | 16,351,896 | 15,710,323 | 17,633,925 | 18,126,269 | 20,172,839 | 23,075,943 | 26,403,746 | 2.6% | 2.6% |
| Domestic Charter (c) | 41,874 | 16,990 | 4,736 | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 | -2.0% | -0.9% |
| International Charter(c) | 43,641 | 15,386 | 0 | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 | 0 | 0 |
| Subtotal charter | 85,515 | 32,376 | 4,736 | 5,316 | 5,464 | 6,081 | 6,956 | 7,960 | 2.6% | 2.6% |
| Total Revenue Enplanements | 16,969,084 | 16,384,272 | 15,715,059 | 17,639,241 | 18,131,733 | 20,178,920 | 23,082,899 | 26,411,706 | 2.6% | 2.6% |
| Non-Rvenue Enplanements | 509,278 | 571,181 | 552,580 | 620,239 | 637,556 | 709,540 | 811,651 | 928,700 | 2.6% | 2.6% |
| Total Enplanements | 17,478,362 | 16,955,453 | 16,267,639 | 18,259,480 | 18,769,289 | 20,888,460 | 23,894,550 | 27,340,406 | 2.6% | 2.6% |
| Originations | | | | | | | | | | |
| Domestic Scheduled Air Carrier (a) | 7,703,380 | 7,065,580 | 7,084,400 | 8,046,352 | 8,269,975 | 9,176,566 | 10,474,987 | 11,959,201 | 2.6% | 2.7% |
| International Scheduled Air Carrier (b) | 656,490 | 676,530 | 706,128 | 895,030 | 931,500 | 1,093,314 | 1,336,925 | 1,636,550 | 4.3% | 4.3% |
| Subtotal Scheduled | 8,359,870 | 7,742,110 | 7,790,528 | 8,941,382 | 9,201,475 | 10,269,880 | 11,811,912 | 13,595,752 | 2.8% | 2.8% |
| Domestic Charter (d) | 41,874 | 16,990 | 4,736 | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 | -2.0% | -0.9% |
| International Charter(d) | 43,641 | 15,386 | 0 | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 | 0 | 0 |
| Subtotal charter | 85,515 | 32,376 | 4,736 | 5,316 | 5,464 | 6,081 | 6,956 | 7,960 | 2.6% | 2.6% |
| Total | 8,445,385 | 7,774,486 | 7,795,264 | 8,946,698 | 9,206,939 | 10,275,961 | 11,818,869 | 13,603,711 | 2.8% | 2.8% |

(a) Table A.4.2.
(b) Table A.5.1.
(c) Attachment 7, Table 7.1.
(d) Assumed to be the same as enplanements.

Sources: As noted and HNTB analysis.

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Table A.10.2

Summary of Forecast Aircraft Operations at MSP

| | 2007 | 2008 | 2010 | 2015 | 2016 | EA Analysis Period | | | Long Term | |
|---|----------------|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|-------------|-------------|
| | | | | | | 2020 | 2025 | 2030 | (2010-2030) | |
| | | | | | | | | | Growth Rate | Growth Rate |
| Domestic Scheduled Air Carrier (a) | 388,508 | 378,273 | 367,851 | 370,360 | 378,528 | 410,410 | 448,074 | 486,180 | 1.3% | 1.4% |
| International Scheduled Air Carrier (b) | 14,889 | 24,074 | 26,556 | 26,992 | 27,580 | 29,530 | 32,886 | 35,986 | 1.4% | 1.5% |
| Charter (c) | 1,432 | 536 | 103 | 86 | 88 | 96 | 106 | 118 | 0.2% | 0.7% |
| All-Cargo Carrier (d) | 15,292 | 14,361 | 12,499 | 12,598 | 12,600 | 12,764 | 12,826 | 12,956 | 0.2% | 0.2% |
| General Aviation and Air Taxi (e) | 30,562 | 30,685 | 27,921 | 29,751 | 29,783 | 29,934 | 30,003 | 30,011 | 0.5% | 0.4% |
| Military (f) | 2,289 | 2,115 | 2,145 | 2,145 | 2,145 | 2,145 | 2,145 | 2,145 | 0.0% | 0.0% |
| Total | 452,972 | 450,044 | 437,075 | 441,932 | 450,724 | 484,879 | 526,040 | 567,396 | 1.2% | 1.3% |

- (a) Table A.4.3.
- (b) Table A.5.2.
- (c) Attachment 7, Table 7.4.
- (d) Attachment 8, Table 8.2.
- (e) Table A.9.2.
- (f) Table A.9.3.

Sources: As noted and HNTB analysis.

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Table A.10.3

Annual Summary of Enplaned Passengers and Operations at MSP

| Year | Total Enplanements | Total Aircraft Operations |
|-----------------------------------|-----------------------|------------------------------|
| 2010 | 16,267,639 | 437,075 |
| 2011 | 16,666,007 | 438,046 |
| 2012 | 17,064,375 | 439,018 |
| 2013 | 17,462,743 | 439,989 |
| 2014 | 17,861,111 | 440,961 |
| 2015 | 18,259,480 | 441,932 |
| 2016 | 18,769,289 | 450,724 |
| 2017 | 19,299,082 | 459,263 |
| 2018 | 19,828,875 | 467,802 |
| 2019 | 20,358,668 | 476,341 |
| EA Analysis Period | | |
| 2020 | 20,888,460 | 484,879 |
| 2021 | 21,489,678 | 493,112 |
| 2022 | 22,090,896 | 501,344 |
| 2023 | 22,692,114 | 509,576 |
| 2024 | 23,293,332 | 517,808 |
| 2025 | 23,894,550 | 526,040 |
| Long Term | | |
| 2026 | 24,583,722 | 534,311 |
| 2027 | 25,272,893 | 542,582 |
| 2028 | 25,962,064 | 550,853 |
| 2029 | 26,651,235 | 559,125 |
| 2030 | 27,340,406 | 567,396 |
| Average Annual Growth Rate | | |
| 2010-2030 | 2.6% | 1.3% |

Sources: Tables A.10.1, A.10.2 and HNTB analysis.

11 Design Day Gated Flight Schedules

The derivation of design day gated flight schedules used in subsequent simulation and environmental analyses is discussed in this section. Design day schedules were prepared for an average weekday during the peak month for 2020 and 2025, the two years of analysis for the EA. Three alternative cases were prepared:

- Alternative 1: Airlines Remain, which assumes that airlines remain and grow at their existing terminals;
- Alternative 2: Airlines Relocate, which assumes that all non-SkyTeam airlines relocate to Terminal 2-Humphrey; and
- No-Action Alternative: No expansion projects are assumed, except those that are currently undergoing environmental approval, do not require environmental approval, or are covered by a State Environmental Assessment Worksheet (EAW) or categorical exclusion.

The development of the 2020 and 2025 flight schedules is presented first, followed by a discussion of the assumptions used to assign gates for each of the alternatives.

11.1 Preparation of Flight Schedules

Based on the information developed in the annual forecast, design day flight schedules representing the AWDPM in 2020 and 2025 were prepared. The projected schedules contain the following information on a flight-by-flight basis:

- Time of arrival at and departure from MSP
- Airline
- Aircraft type
- Origin and destination
- Domestic/International/Pre-cleared designation
- Category designation (scheduled, charter, cargo, etc.)

The following assumptions and procedures were used to prepare the design day schedules:

- The sources of the annual scheduled passenger forecasts were Tables 5.8 and 6.9 which detail AWDPM market-by-market service projections by airline and aircraft type.
- The July 2010 OAG schedules were used as the initial source of flight times for the future schedules. July was selected because it is typically the peak month for passenger and aircraft operations activity at MSP.

Scheduled times for new flights in existing markets were estimated using the following approach:

- New flights were scheduled to avoid two flights in the same connecting bank by the same airline in a given market.
- Flights were scheduled to avoid take-offs and landings during nighttime (2300-0600) at both the origin and destination market.
- New flights for Delta and Sun Country were scheduled to be consistent with their existing directional connecting bank structure.

Scheduled times for flights in new markets were estimated using the following approach:

- Flights were scheduled to avoid take-offs and landings during nighttime (2300-0600) at both the origin and destination market.
- New flights for Delta and Sun Country were scheduled to be consistent with their existing directional connecting bank structure.

Aircraft turnarounds (determination of which arriving flight becomes which departing flight) were estimated using the following approach:

- Based on current practice, wide-body aircraft turnarounds were assumed to last no less than 1 hour.
- Based on current practice, narrow-body turnarounds were scheduled to last no less than 35 minutes. This assumption varied depending on the airline and its current practices. For example, Southwest's average turnaround time of 25 minutes is reflected in the design day schedules.
- Based on current practice, regional aircraft turnarounds were scheduled to last no less than 25 minutes.

Enplaned and deplaned passengers were assigned to each flight based on existing load factors by airline for each market, with an adjustment for the time of day and the projected increase in average load factor over the forecast period. The split between O&D and connecting passengers for each market was based on existing O&D/connecting split for Delta flights in each market. Non-Delta carriers have very little connecting traffic; therefore each carriers' average ratio of originating to enplanement traffic was used across all markets.

11.2 Assignment of Gates

The same flight schedule was used as a starting point for each of the three alternatives, but the process for assigning gates differed. In addition, the 2025 no-action schedule required some

minor adjustments in schedule times for the projected level of activity to operate with the existing number of gates.

The following assumptions were employed to assign gates to the flight schedule for Alternatives 1 and 2:

- A preferential use lease structure was assumed.
- Reflecting existing Airport practice, arriving flights that are towed off and departing flights that are towed on were assigned 45-minute dwell times at their gate. This was reduced to 30-minutes for Southwest and regional carrier flights.
- A minimum 15-minute buffer was assumed between an aircraft departure and the next aircraft arrival at each gate. This assumption was relaxed on occasion if it meant avoiding the addition of a new gate to accommodate just one flight.
- Spare gates were assigned in addition to those gates required under a perfectly operating schedule. The number of spare gates was assumed to equal eight percent of the minimum number of required gates. Spare gates are typically required by a hub carrier to accommodate schedule disruptions.
- Flights were initially assigned to gates to maximize gate utilization given the above constraints. Once gate requirements were determined (including spare gates) the flights were redistributed among the gates to provide for a more balanced operation.

The gated flight schedule for the No-Action Alternative assumes no changes in the existing terminal facilities except for the currently proposed re-gating at Terminal 1-Lindbergh which would result in a net reduction of two gates from the existing configuration to accommodate the larger wingspans resulting from the addition of winglets to many aircraft. The reduction in the total gate number would be offset by the increased ability of many of the remaining gates to accommodate a wider variety of aircraft.

The following assumptions were employed to assign gates to the flight schedule for the No-Action Alternative:

- A common use lease structure was assumed for all carriers. Where possible, flights by individual airlines were assigned to the same set of adjacent gates throughout the day.
- No split of an individual airline's operations between Terminal 1-Lindbergh and Terminal 2-Humphrey was assumed.
- Some minor relocation of airlines between the two terminals was assumed. For example, JetBlue operations were moved to Terminal 1-Lindbergh and Air Canada operations were moved to Terminal 2-Humphrey.

- During peak periods, arriving narrow-body flights that are towed off and departing narrow-body flights that are towed on were assigned 30-minute dwell times at their gates.
- A minimum 5-minute buffer was assumed between an aircraft departure and the next aircraft arrival at each gate during peak periods.
- In one instance, the flight time of a charter operation was adjusted to make room for a scheduled operation for which no gate would have been available.
- No spare gates were assumed. If schedule disruptions were to occur, some arriving flights would need to wait until a gate became available.
- Flights were initially assigned to gates to maximize gate utilization given the above constraints. Once gate requirements were determined the flights were redistributed among the gates to provide for a more balanced operation.
- Where possible, flights were assigned to gates so as to maximize accessibility to the optimal runway for their ultimate destination.

When compared to Alternatives 1 and 2, the No-Action Alternative represents a much more crowded condition with reduced passenger service levels and increased airline operating burdens, especially when schedule disruptions occur. Nevertheless, the No-Action Alternative is technically feasible, even for 2025 activity levels. The number of turns per gate, though high, is less than has been experienced at other hub airports such as Charlotte and DFW.³ As such, the No Action Alternative represents a reasonable estimate of how the Airport and the airlines would attempt to accommodate demand if they were not able to add terminal facilities.

12 Peak Activity Forecasts

The results of the design day gated flight schedule analyses were aggregated to develop peak activity forecasts which are detailed in **Attachment 10**, *Hourly AWDPM Distributions*, and **Attachment 11**, *Peak Activity Summaries*.

12.1 Hourly Distribution Summaries

Tables 10.1 through 10.3 show the existing hourly distribution of enplaning and deplaning passengers, originating and terminating passengers, and arriving and departing passenger flights for Terminal 1-Lindbergh, Terminal 2-Humphrey, and the whole airport respectively. The tables also include 60-minute peaks since the peak hour often includes part of two clock hours. At Terminal 1-Lindbergh, the busiest periods tend to be in the late afternoon and early evening although there are some busy periods in the morning as well. Terminal 2-Humphrey has a very busy early morning departure peak whereas arrival peaks are less intense and are distributed throughout the day.

Tables 10.4 through 10.12 show the hourly distributions resulting from the 2020 AWDPM schedules. The results for Alternative 1 for Terminal 1-Lindbergh, Terminal 2-Humphrey and the entire airport are presented in Tables 10.4 through 10.6. Tables 10.7 through 10.9 show the same results for Alternative 2 and Tables 10.10 through 10.12 show the results for the No Action Alternative. The overall distribution of activity by time of day is similar to 2010; however, under Alternative 2: Airlines Relocate there is a substantial transfer of activity, especially O&D activity, from Terminal 1-Lindbergh to Terminal 2-Humphrey.

Tables 10.13 through 10.21 show the hourly distributions resulting from the 2025 AWDPM schedules. The results for Alternative 1 for Terminal 1-Lindbergh, Terminal 2-Humphrey and the entire airport are presented in Tables 10.13 through 10.15. Tables 10.16 through 10.18 show the same results for Alternative 2 and Tables 10.19 through 10.21 show the results for the No Action Alternative. Again, the overall distribution of activity by time of day is similar to 2010.

No design day schedules were prepared for 2030. Hourly distributions for 2030 were estimated by extrapolating from the 2025 hourly distributions using the annual forecast growth rates as a control and incorporating some peak spreading. The estimated 2030 hourly distributions for Alternative 1, Alternative 2, and the No Action Alternative, broken out by terminal, are presented in Tables 10.22 through 10.30.

12.2 Peak Hour Summaries

Tables 11.1 through 11.3 in Attachment 11 summarize the annual, AWDPM and peak hour estimates of enplaning and deplaning passengers by alternative and by terminal. The distribution of activity by terminal is very similar for Alternative 1 and the No-Action Alternative, since the distribution of airlines among the terminals would be very similar. Under Alternative 2, however, Terminal 2-Humphrey would have twice as much passenger activity as under the other two alternatives.

Tables 11.4 through 11.6 summarize the annual, AWDPM and peak hour estimates of originating and deplaning passengers by alternative and by terminal. As shown, under Alternative 2 originating and terminating traffic would be roughly evenly divided between the two terminals, although Terminal 1-Lindbergh still would accommodate the vast majority of connecting traffic.

12.3 International Peak Summaries

At MSP, the seasonal distribution of international activity differs from that of domestic and total activity. International demand peaks during weekends in winter, especially March, whereas domestic demand peaks during weekdays in summer. The international peak is largely driven by tourist traffic to Mexico. International traffic to Europe and Asia peaks in summer, similar to domestic traffic.

A supplementary gated flight schedule analysis, limited to international activity, was performed for Saturdays in March. The analysis was performed to assess peak international demand to ensure that the planned number of gates and other international facilities would be adequate.

Tables 11.7 through 11.9 summarize peak international enplaning and deplaning passenger activity for a Saturday in March, broken out by terminal and alternative. Tables 11.10 through 11.12 provide similar breakouts of peak international originating and terminating passenger activity. The results are the same across all alternatives because, aside from Air Canada which does not require Customs and Border Protection facilities, none of the airlines providing international service are anticipated to change terminals under any of the alternatives.

13 Gate Requirements

Table A.13.1 summarizes the estimated gate requirements resulting from the design day gated flight schedule analyses. Also included for comparison is the existing number of gates at the two terminals. It should be noted that the existing gate capacity does not correspond to the existing gate requirement. Currently, the Airport has more gates than needed to accommodate existing passenger flights; however, by 2020 the demand for gates will exceed the capabilities of the current terminal configuration.

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2020 Improvements EA/EAW**

Table A.13.1
Summary of Forecast 2020 MSP Gate Requirements by Alternative

| | Existing Capacity (a) | | Alternative 1 - Airlines Remain | | Alternative 2 - Airlines Relocate | |
|---------------------|-----------------------|-------------------------------|---------------------------------|-------------------------------|-----------------------------------|-------------------------------|
| | Total | With International Capability | Total | With International Capability | Total | With International Capability |
| Total | | | Terminal 1 - Lindbergh | | | |
| Widebody (b) | 5 | 5 | 7 | 5 | 7 | 5 |
| 757 Class (c) | 11 | 3 | 9 | 2 | 9 | 2 |
| Narrow Body (d) | 46 | 3 | 46 | 5 | 32 | 5 |
| Large Regional (e) | 16 | - | 30 | - | 29 | - |
| Medium Regional (f) | 24 | - | 19 | - | 19 | - |
| Small Regional (g) | 12 | - | 4 | - | 4 | - |
| Subtotal | 114 | 11 | 115 | 12 | 100 | 12 |
| | | | Terminal 2 - Humphrey | | | |
| Total | | | | | | |
| Widebody (b) | 2 | 2 | 1 | 1 | 1 | 1 |
| 757 Class (c) | 4 | 4 | 2 | - | 2 | - |
| Narrow Body (d) | 4 | - | 10 | 4 | 24 | 4 |
| Large Regional (e) | - | - | - | - | - | - |
| Medium Regional (f) | - | - | - | - | - | - |
| Small Regional (g) | - | - | - | - | - | - |
| Subtotal | 10 | 6 | 13 | 5 | 27 | 5 |

(a) Includes planned Delta Air Lines reconfiguration of existing gates on Terminal 1. Many existing gates are restricted by the types of aircraft using adjacent gates.
 (b) Includes all multiple aisle aircraft.
 (c) Includes 757-200, 757-300 and anticipated replacement aircraft.
 (d) Includes all mainline narrow-body aircraft except for 757 class.
 (e) Includes Embraer 175 and Canadair 700 and 900 aircraft.
 (f) Includes all regional aircraft between 44 and 69 seats.
 (g) Includes all regional aircraft less than 44 seats.

Sources: Design day flight schedules and HNTB analysis.

The principle changes in future demand will be in the types of gates that are required. There will be a need for two more unrestricted wide-body gates, but the greatest demand will be for gates capable of accommodating large (70-seat plus) regional jets. Conversely, the analysis shows that the demand for small turboprop and 50-seat regional jet gates will be substantially less than the existing supply.

Under Alternative 1: Airlines Remain, there would be a need for 115 gates at Terminal 1-Lindbergh and 13 gates at Terminal 2-Humphrey in 2020. Under Alternative 2: Airlines Relocate, there would be a need for 100 gates at Terminal 1-Lindbergh and 27 gates at Terminal 2-Humphrey. A total of 12 international gates at Terminal 1-Lindbergh and 5 international gates at Terminal 2-Humphrey would be required under both alternatives.

Factors that could change future gate requirements at MSP include the following:

- Changes in forecast activity.
- Adjustments in the spare gate percentage.
- Increased future gate utilization among the carriers.
- Changes from preferential use to common use gate lease arrangements.
- Use of hardstands.
- Shuttling of international arrival passengers from domestic gates to Customs and Border Protection (CBP) facilities (this would not reduce the total number of gates but would reduce the number of international gates).

14 Forecast Comparison

Table A.14.1 compares the EA forecast with the LTCP Update forecast and the FAA's 2011 TAF. The average annual growth rate for passenger enplanements between 2010 and 2025 is 2.6 percent with the EA forecast as compared to 2.8 percent with the LTCP Update forecast and 2.0 percent for the TAF. The projected annual growth rate in total originations is 2.8 percent with the EA forecast, as compared to 3.4 percent with the LTCP Update forecast. The difference is primarily attributable to less aggressive assumptions regarding the growth of Southwest Airlines. The published TAF does not provide forecasts of originations.

The EA forecast of operations anticipates an average annual growth rate of 1.2 percent through 2025, which is lower than the LTCP Update forecast (1.7 percent) and slightly lower than the TAF (1.4 percent). The LTCP Update forecast was prepared prior to Delta's announcements regarding 50-seat regional jet reductions, and the TAF is based on national projections of average aircraft size.

FAA Guidance on the review and approval of aviation forecasts states that forecasts for total enplanements and total operations are "considered consistent with the TAF if they meet the following criterion: Forecasts differ by less than 10 percent in the 5-year forecast period, and 15 percent in the 10-year forecast period."⁴ The 2020 forecast meets this criterion for both enplanements and aircraft operations.

Table A.14.1

Comparison of MSP Forecasts

| | 2010 | 2015 | 2016 | EA Analysis Period | | | Long Term | |
|--------------------------|------------|------------|------------|--------------------|------------|-------------------------------|------------|-------------------------------|
| | | | | 2020 | 2025 | (2010-2025) Growth Rate | 2030 | (2010-2030) Growth Rate |
| | | | | | | | | |
| Enplanements | | | | | | | | |
| EA Forecast (a) | 15,715,059 | 17,639,241 | 18,131,733 | 20,178,920 | 23,082,899 | 2.6% | 26,411,706 | 2.6% |
| LTCP Update Forecast (b) | 16,526,385 | 19,102,835 | 19,645,903 | 21,818,176 | 24,980,903 | 2.8% | 28,431,850 | 2.7% |
| 2011 TAF (c) | 15,295,616 | 16,823,731 | 17,201,135 | 18,643,055 | 20,626,495 | 2.0% | 22,833,908 | 2.0% |
| Originations | | | | | | | | |
| EA Forecast (a) | 7,795,264 | 8,946,698 | 9,206,939 | 10,275,961 | 11,818,869 | 2.8% | 13,603,711 | 2.8% |
| LTCP Update Forecast (b) | 8,681,658 | 10,654,254 | 10,990,162 | 12,333,797 | 14,319,319 | 3.4% | 16,624,892 | 3.3% |
| Operations | | | | | | | | |
| EA Forecast (d) | 437,075 | 441,932 | 450,724 | 484,879 | 526,040 | 1.2% | 567,396 | 1.3% |
| LTCP Update Forecast (b) | 459,481 | 507,669 | 515,523 | 546,936 | 592,849 | 1.7% | 630,837 | 1.6% |
| 2011 TAF (c) | 427,558 | 449,493 | 455,020 | 485,065 | 525,526 | 1.4% | 569,471 | 1.4% |

(a) Table A.10.1. Does not include non-revenue enplanements.

(b) LTCP Update Forecast published August 2009. Does not include non-revenue enplanements.

(c) Federal Aviation Administration, Terminal Area Forecast for MSP, January 2012. Does not include non-revenue enplanements.

(d) Table A.10.2.

Sources: As noted and HNTB analysis.

15 Factors that Could Impact the EA Forecast

Airlines have been known to change fleet plans and feeder arrangements in the past, so there could be material changes in the passenger, aircraft operation, and fleet mix projections. Factors that could drive these changes include:

- *Changes in economic growth* – The economy is the ultimate driver of aviation activity. Therefore, growth above the levels projected in Table A.1.1 will, all other things being equal, result in activity levels higher than those presented in this report. Conversely, economic growth below the Table A.1.1 projections will result in lower than projected aviation activity levels at MSP.
- *Changes in fuel prices* – Higher than projected fuel prices would increase operating costs and average air fares and reduce demand, thereby reducing projected activity levels. In addition, the 50-seat regional jets are uneconomical at current fuel prices and under existing operating terms with the feeder carriers; those factors are driving the retirement of many of these aircraft. If fuel prices were to fall significantly or operating terms were to improve, the 50-seat aircraft would once again have more favorable operating economics, as they did in the 1990s and the early part of the last decade. With lower fuel prices or better operating terms, Delta and other airlines may choose to slow or halt the retirements of the 50-seat regional jet aircraft.
- *New Regional Carrier* - Delta has withdrawn from several small markets in Minnesota and the Dakotas in recent years and will likely reduce frequencies in additional markets. This would provide opportunities for an operator of small turboprops, such as Great Lakes Airlines, to backfill this service, perhaps under code-share agreements with United and Frontier, similar to their operation in Denver. Since they operate mostly 19-seat aircraft, a small number of passengers could generate a relatively large number of aircraft operations.
- *More Robust Essential Air Service Program* – Although unlikely in the current political climate, a more robust essential air service program would result in more service to small markets that would logically be served by smaller aircraft, either within or outside the Delta system.

ENDNOTES

¹ The Bureau of Economic Analysis employment statistics, upon which Woods & Poole projections are based, include the self-employed in addition to wage and salary workers.

² It was assumed that taxes and fees, as a proportion (%) of total fare, would remain at their 2008 levels over the forecast period.

³ "An Evaluation of Air Carrier Gate Use at Selected Airports," in Handbook of Airline Economics, 1995.

⁴ Federal Aviation Administration, Review and Approval of Aviation Forecasts, June 2008.

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Attachment 1
Socioeconomic Data

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Table 1.1

Historical Population

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US (a) |
|-----------|-----------------------------------|--------|---------|-----------|---------|---------|------------|-------------------|------------------|--------------------|
| 1980 | 196,934 | 37,246 | 195,537 | 944,339 | 460,972 | 44,037 | 114,207 | 1,993,272 | 227,224,719 | 0.88% |
| 1981 | 200,223 | 37,960 | 200,120 | 953,632 | 464,661 | 44,949 | 116,489 | 2,018,034 | 229,465,744 | 0.88% |
| 1982 | 203,185 | 38,516 | 204,814 | 961,435 | 467,807 | 45,803 | 118,856 | 2,040,416 | 231,664,432 | 0.88% |
| 1983 | 205,362 | 38,799 | 207,632 | 966,876 | 469,240 | 46,005 | 120,247 | 2,054,161 | 233,792,014 | 0.88% |
| 1984 | 208,888 | 39,342 | 213,995 | 972,868 | 469,887 | 47,187 | 122,543 | 2,074,710 | 235,824,907 | 0.88% |
| 1985 | 213,359 | 40,208 | 221,244 | 985,599 | 473,859 | 48,987 | 124,760 | 2,108,016 | 237,923,734 | 0.89% |
| 1986 | 218,309 | 41,263 | 228,968 | 997,454 | 478,857 | 50,405 | 127,522 | 2,142,778 | 240,132,831 | 0.89% |
| 1987 | 224,834 | 42,741 | 241,271 | 1,005,648 | 480,597 | 52,568 | 131,170 | 2,178,829 | 242,288,936 | 0.90% |
| 1988 | 232,370 | 44,715 | 255,030 | 1,018,825 | 483,483 | 54,895 | 137,085 | 2,226,403 | 244,499,004 | 0.91% |
| 1989 | 237,833 | 46,304 | 265,585 | 1,026,682 | 485,633 | 56,454 | 141,537 | 2,260,028 | 246,819,222 | 0.92% |
| 1990 | 245,255 | 48,409 | 277,866 | 1,035,132 | 486,531 | 58,285 | 146,940 | 2,298,418 | 249,622,814 | 0.92% |
| 1991 | 251,565 | 50,251 | 286,916 | 1,043,220 | 488,277 | 60,328 | 152,340 | 2,332,897 | 252,980,941 | 0.92% |
| 1992 | 257,253 | 52,089 | 296,694 | 1,050,216 | 491,517 | 62,549 | 158,392 | 2,368,710 | 256,514,224 | 0.92% |
| 1993 | 261,729 | 54,436 | 305,852 | 1,059,615 | 492,298 | 65,393 | 166,677 | 2,406,000 | 259,918,588 | 0.93% |
| 1994 | 268,278 | 56,936 | 311,008 | 1,069,030 | 493,614 | 68,352 | 173,796 | 2,441,014 | 263,125,821 | 0.93% |
| 1995 | 273,226 | 59,644 | 319,218 | 1,076,932 | 495,857 | 70,987 | 179,062 | 2,474,926 | 266,278,393 | 0.93% |
| 1996 | 278,260 | 62,197 | 328,159 | 1,083,757 | 498,326 | 73,883 | 183,824 | 2,508,406 | 269,394,284 | 0.93% |
| 1997 | 282,976 | 63,939 | 335,640 | 1,089,694 | 502,514 | 77,754 | 188,208 | 2,540,725 | 272,646,925 | 0.93% |
| 1998 | 288,089 | 65,838 | 343,231 | 1,099,002 | 506,075 | 80,878 | 192,341 | 2,575,454 | 275,854,104 | 0.93% |
| 1999 | 293,599 | 68,181 | 350,520 | 1,109,634 | 509,175 | 85,094 | 197,391 | 2,613,594 | 279,040,168 | 0.94% |
| 2000 | 299,775 | 70,860 | 357,906 | 1,118,227 | 511,587 | 91,081 | 202,547 | 2,651,983 | 282,171,957 | 0.94% |
| 2001 | 305,002 | 73,109 | 363,622 | 1,124,929 | 512,979 | 97,200 | 206,692 | 2,683,533 | 285,081,556 | 0.94% |
| 2002 | 309,032 | 75,686 | 368,205 | 1,123,225 | 510,592 | 103,169 | 209,254 | 2,699,163 | 287,803,914 | 0.94% |
| 2003 | 312,164 | 78,391 | 371,955 | 1,122,285 | 505,612 | 107,957 | 212,403 | 2,710,767 | 290,326,418 | 0.93% |
| 2004 | 317,165 | 81,020 | 376,747 | 1,122,694 | 500,781 | 113,668 | 213,982 | 2,726,057 | 293,045,739 | 0.93% |
| 2005 | 320,476 | 83,943 | 381,256 | 1,121,705 | 497,118 | 118,503 | 217,534 | 2,740,535 | 295,753,151 | 0.93% |
| 2006 | 324,414 | 86,510 | 385,604 | 1,125,352 | 496,718 | 122,733 | 222,139 | 2,763,470 | 298,593,212 | 0.93% |
| 2007 | 326,973 | 88,320 | 390,284 | 1,133,986 | 499,408 | 126,176 | 226,384 | 2,791,531 | 301,579,895 | 0.93% |
| 2008 | 328,998 | 90,162 | 393,528 | 1,143,863 | 502,658 | 129,220 | 229,740 | 2,818,169 | 304,374,846 | 0.93% |
| | Average Annual Growth Rate | | | | | | | | | |
| 1980-2008 | 1.8% | 3.2% | 2.5% | 0.7% | 0.3% | 3.9% | 2.5% | 1.2% | 1.0% | |
| 1980-1990 | 2.2% | 2.7% | 3.6% | 0.9% | 0.5% | 2.8% | 2.6% | 1.4% | 0.9% | |
| 1990-2008 | 1.6% | 3.5% | 2.0% | 0.6% | 0.2% | 4.5% | 2.5% | 1.1% | 1.1% | |

(a) Seven-county Metropolitan Council share of U.S.

Source: United States Department of Commerce, Bureau of Economic Analysis.

Table 1.2

Projected Population

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US |
|---|---------|---------|---------|-----------|---------|---------|------------|-------------------|------------------|----------------|
| Metropolitan Council - Regional Development Framework Forecasts (a) | | | | | | | | | | |
| 2000 | 298,084 | 70,205 | 355,904 | 1,116,206 | 511,035 | 89,498 | 201,130 | 2,642,062 | n/a | n/a |
| 2005 (b) | 329,342 | 90,473 | 389,472 | 1,170,098 | 529,333 | 115,034 | 229,531 | 2,853,282 | n/a | n/a |
| 2008 | 348,097 | 102,633 | 409,613 | 1,202,433 | 540,311 | 130,356 | 246,572 | 2,980,014 | n/a | n/a |
| 2010 | 360,600 | 110,740 | 423,040 | 1,223,990 | 547,630 | 140,570 | 257,932 | 3,064,502 | n/a | n/a |
| 2015 (b) | 388,345 | 137,285 | 453,880 | 1,275,365 | 558,735 | 161,595 | 288,268 | 3,263,473 | n/a | n/a |
| 2020 | 416,090 | 163,830 | 484,720 | 1,326,740 | 569,840 | 182,620 | 318,603 | 3,462,443 | n/a | n/a |
| 2025 (b) | 427,380 | 181,165 | 505,470 | 1,368,265 | 579,710 | 201,745 | 340,897 | 3,604,632 | n/a | n/a |
| 2030 | 438,670 | 198,500 | 526,220 | 1,409,790 | 589,580 | 220,870 | 363,190 | 3,746,820 | n/a | n/a |
| Average Annual Growth Rate | | | | | | | | | | |
| 2010-2030 | 1.0% | 3.0% | 1.1% | 0.7% | 0.4% | 2.3% | 1.7% | 1.0% | n/a | n/a |
| Metropolitan Council - Regional Development Framework Forecasts Adjusted for Base Year (c) | | | | | | | | | | |
| 2000 | 298,084 | 70,205 | 355,904 | 1,116,206 | 511,035 | 89,498 | 201,130 | 2,642,062 | 282,171,957 | 0.94% |
| 2005 | 320,476 | 83,943 | 381,256 | 1,121,705 | 497,118 | 118,503 | 217,534 | 2,740,535 | 295,753,151 | 0.93% |
| 2008 (d) | 328,998 | 90,162 | 393,528 | 1,143,863 | 502,658 | 129,220 | 229,740 | 2,818,169 | 304,374,846 | 0.93% |
| 2010 | 340,815 | 97,284 | 406,428 | 1,164,370 | 509,467 | 139,345 | 240,325 | 2,898,034 | 310,009,241 | 0.93% |
| 2015 | 367,038 | 120,603 | 436,057 | 1,213,242 | 519,798 | 160,187 | 268,590 | 3,085,516 | 325,343,434 | 0.95% |
| EA Analysis Period | | | | | | | | | | |
| 2020 | 393,261 | 143,923 | 465,686 | 1,262,115 | 530,129 | 181,029 | 296,854 | 3,272,997 | 341,251,668 | 0.96% |
| 2025 | 403,931 | 159,152 | 485,621 | 1,301,617 | 539,311 | 199,987 | 317,626 | 3,407,246 | 357,504,320 | 0.95% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2010-2025 | 1.1% | 3.3% | 1.2% | 0.7% | 0.4% | 2.4% | 1.9% | 1.1% | 1.0% | |
| Long Term | | | | | | | | | | |
| 2030 | 414,602 | 174,380 | 505,556 | 1,341,120 | 548,494 | 218,946 | 338,398 | 3,541,495 | 373,827,815 | 0.95% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2010-2030 | 1.0% | 3.0% | 1.1% | 0.7% | 0.4% | 2.3% | 1.7% | 1.0% | 0.9% | |

(a) Metropolitan Council, Regional Development Framework 2030 Forecasts, revised November 2010.

(b) Interpolated.

(c) Forecast growth rates for each county applied to actual 2008 base year data.

(d) Woods & Poole Economics, The Complete Economic and Demographic Data Source (CEDDS) 2011.

Sources: As noted and HNTB analysis.

Table 1.3

Historical Employment

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US (a) |
|-----------------------------------|---------|--------|---------|-----------|---------|--------|------------|-------------------|------------------|--------------------|
| 1980 | 71,048 | 15,348 | 75,978 | 724,963 | 314,564 | 18,178 | 36,474 | 1,256,553 | 113,983,200 | 1.10% |
| 1981 | 70,901 | 15,817 | 76,360 | 723,730 | 311,400 | 18,216 | 38,203 | 1,254,627 | 114,914,000 | 1.09% |
| 1982 | 71,047 | 15,498 | 76,190 | 710,906 | 305,291 | 18,232 | 38,159 | 1,235,323 | 114,163,300 | 1.08% |
| 1983 | 73,855 | 15,784 | 78,823 | 717,114 | 307,641 | 18,746 | 40,695 | 1,252,658 | 115,645,700 | 1.08% |
| 1984 | 80,426 | 16,352 | 88,262 | 763,089 | 325,417 | 19,789 | 42,733 | 1,336,068 | 120,528,100 | 1.11% |
| 1985 | 83,261 | 17,705 | 95,174 | 790,797 | 332,093 | 21,065 | 44,827 | 1,384,922 | 123,796,700 | 1.12% |
| 1986 | 86,336 | 17,886 | 99,735 | 809,432 | 335,291 | 21,926 | 47,308 | 1,417,914 | 126,232,300 | 1.12% |
| 1987 | 91,998 | 19,344 | 109,690 | 843,558 | 343,801 | 23,281 | 51,379 | 1,483,051 | 129,548,400 | 1.14% |
| 1988 | 97,082 | 20,300 | 120,332 | 865,227 | 350,711 | 24,490 | 52,954 | 1,531,096 | 133,563,900 | 1.15% |
| 1989 | 100,716 | 21,783 | 126,727 | 882,531 | 351,764 | 24,897 | 54,408 | 1,562,826 | 136,177,800 | 1.15% |
| 1990 | 103,751 | 24,304 | 132,944 | 893,644 | 353,860 | 25,958 | 56,157 | 1,590,618 | 138,330,900 | 1.15% |
| 1991 | 106,759 | 25,771 | 136,672 | 886,823 | 353,018 | 27,018 | 57,445 | 1,593,506 | 137,612,800 | 1.16% |
| 1992 | 108,863 | 28,053 | 142,293 | 895,630 | 353,852 | 29,302 | 58,841 | 1,616,834 | 138,166,100 | 1.17% |
| 1993 | 111,332 | 30,632 | 146,844 | 912,273 | 357,644 | 31,747 | 60,702 | 1,651,174 | 140,774,400 | 1.17% |
| 1994 | 115,502 | 32,741 | 154,560 | 934,602 | 364,652 | 33,801 | 65,770 | 1,701,628 | 144,196,600 | 1.18% |
| 1995 | 119,414 | 35,265 | 162,880 | 959,251 | 372,914 | 36,365 | 68,469 | 1,754,558 | 147,915,800 | 1.19% |
| 1996 | 122,639 | 35,940 | 169,331 | 975,916 | 375,511 | 38,095 | 71,992 | 1,789,424 | 151,056,200 | 1.18% |
| 1997 | 125,186 | 36,988 | 173,982 | 989,480 | 380,628 | 38,880 | 77,186 | 1,822,330 | 154,541,200 | 1.18% |
| 1998 | 129,909 | 38,808 | 180,208 | 1,015,772 | 387,566 | 38,618 | 80,225 | 1,871,106 | 158,481,200 | 1.18% |
| 1999 | 138,499 | 39,594 | 190,854 | 1,029,202 | 390,742 | 41,204 | 81,476 | 1,911,571 | 161,531,300 | 1.18% |
| 2000 | 143,555 | 41,631 | 197,954 | 1,048,325 | 395,185 | 44,283 | 85,453 | 1,956,386 | 165,370,800 | 1.18% |
| 2001 | 148,362 | 43,316 | 203,347 | 1,036,721 | 398,046 | 46,893 | 88,287 | 1,964,972 | 165,510,200 | 1.19% |
| 2002 | 148,660 | 44,783 | 209,923 | 1,014,027 | 395,077 | 48,771 | 89,036 | 1,950,277 | 165,063,100 | 1.18% |
| 2003 | 151,693 | 45,680 | 216,524 | 1,005,226 | 393,795 | 50,152 | 91,251 | 1,954,321 | 166,019,500 | 1.18% |
| 2004 | 154,939 | 46,966 | 221,513 | 1,015,858 | 396,805 | 53,158 | 92,761 | 1,982,000 | 169,026,700 | 1.17% |
| 2005 | 159,570 | 48,052 | 228,432 | 1,033,196 | 400,864 | 54,857 | 95,564 | 2,020,535 | 172,551,400 | 1.17% |
| 2006 | 161,558 | 50,733 | 233,260 | 1,047,407 | 403,933 | 56,662 | 97,374 | 2,050,927 | 176,124,600 | 1.16% |
| 2007 | 163,470 | 51,383 | 236,916 | 1,063,592 | 407,474 | 57,767 | 98,091 | 2,078,693 | 179,871,700 | 1.16% |
| 2008 | 163,796 | 52,578 | 238,237 | 1,070,633 | 411,598 | 58,680 | 98,252 | 2,093,774 | 181,755,100 | 1.15% |
| Average Annual Growth Rate | | | | | | | | | | |
| 1980-2008 | 3.0% | 4.5% | 4.2% | 1.4% | 1.0% | 4.3% | 3.6% | 1.8% | 1.7% | |
| 1980-1990 | 3.9% | 4.7% | 5.8% | 2.1% | 1.2% | 3.6% | 4.4% | 2.4% | 2.0% | |
| 1990-2008 | 2.6% | 4.4% | 3.3% | 1.0% | 0.8% | 4.6% | 3.2% | 1.5% | 1.5% | |

(a) Seven-county Metropolitan Council share of U.S.

Source: United States Department of Commerce, Bureau of Economic Analysis, 2010.

Table 1.4

Projected Employment

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US |
|---|---------|--------|---------|-----------|---------|--------|------------|-------------------|------------------|----------------|
| Metropolitan Council - Regional Development Framework Forecasts (a) | | | | | | | | | | |
| 2000 | 110,050 | 28,740 | 154,242 | 877,346 | 333,305 | 34,931 | 67,649 | 1,606,263 | n/a | n/a |
| 2005 (b) | 117,420 | 34,620 | 170,156 | 914,073 | 352,563 | 42,066 | 77,685 | 1,708,582 | n/a | n/a |
| 2008 | 121,842 | 38,148 | 179,704 | 936,109 | 364,117 | 46,346 | 83,706 | 1,769,973 | n/a | n/a |
| 2010 | 124,790 | 40,500 | 186,070 | 950,800 | 371,820 | 49,200 | 87,720 | 1,810,900 | n/a | n/a |
| 2015 (b) | 133,305 | 46,295 | 197,555 | 995,050 | 387,955 | 53,740 | 99,640 | 1,913,540 | n/a | n/a |
| 2020 | 141,820 | 52,090 | 209,040 | 1,039,300 | 404,090 | 58,280 | 111,560 | 2,016,180 | n/a | n/a |
| 2025 (b) | 147,880 | 55,860 | 218,110 | 1,079,250 | 415,055 | 65,800 | 121,090 | 2,103,045 | n/a | n/a |
| 2030 | 153,940 | 59,630 | 227,180 | 1,119,200 | 426,020 | 73,320 | 130,620 | 2,189,910 | n/a | n/a |
| Average Annual Growth Rate | | | | | | | | | | |
| 2005-2030 | 1.1% | 2.2% | 1.2% | 0.8% | 0.8% | 2.2% | 2.1% | 1.0% | n/a | n/a |
| Metropolitan Council - Regional Development Framework Forecasts Adjusted for Base Year (c) | | | | | | | | | | |
| 2000 | 143,554 | 41,631 | 197,953 | 1,048,324 | 395,184 | 44,281 | 85,451 | 1,956,378 | 165,370,800 | 1.18% |
| 2005 | 159,570 | 48,052 | 228,432 | 1,033,196 | 400,864 | 54,857 | 95,564 | 2,020,535 | 172,551,400 | 1.17% |
| 2008 (d) | 163,796 | 52,578 | 238,237 | 1,070,633 | 411,598 | 58,680 | 98,252 | 2,093,774 | 181,755,100 | 1.15% |
| 2010 | 167,759 | 55,820 | 246,676 | 1,087,435 | 420,305 | 62,293 | 102,964 | 2,143,252 | 174,062,641 | 1.23% |
| 2015 | 179,206 | 63,807 | 261,902 | 1,138,044 | 438,544 | 68,041 | 116,955 | 2,266,500 | 186,999,786 | 1.21% |
| EA Analysis Period | | | | | | | | | | |
| 2020 | 190,653 | 71,794 | 277,128 | 1,188,653 | 456,783 | 73,790 | 130,947 | 2,389,747 | 197,896,707 | 1.21% |
| 2025 | 198,800 | 76,990 | 289,152 | 1,234,344 | 469,178 | 83,311 | 142,133 | 2,493,907 | 209,315,190 | 1.19% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2010-2025 | 1.1% | 2.2% | 1.1% | 0.8% | 0.7% | 2.0% | 2.2% | 1.0% | 1.2% | |
| Long Term | | | | | | | | | | |
| 2030 | 206,946 | 82,186 | 301,176 | 1,280,035 | 481,573 | 92,832 | 153,319 | 2,598,067 | 221,271,163 | 1.17% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2010-2030 | 1.1% | 2.0% | 1.0% | 0.8% | 0.7% | 2.0% | 2.0% | 1.0% | 1.2% | -0.2% |

(a) Metropolitan Council, Regional Development Framework 2030 Forecasts, revised 2010.

(b) Interpolated.

(c) Forecast growth rates for each county applied to actual 2008 base year data.

(d) Woods & Poole Economics, The Complete Economic and Demographic Data Source (CEDDS) 2011.

Sources: As noted and HNTB analysis.

Table 1.5

Historical Real Personal Income (thousands of 2010 dollars)

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US (a) |
|-----------|-----------------------------------|-----------|------------|------------|------------|-----------|------------|-------------------|------------------|--------------------|
| 1980 | 4,683,168 | 942,599 | 5,264,014 | 29,331,254 | 12,645,661 | 1,103,300 | 2,940,573 | 56,910,569 | 5,451,328,828 | 1.04% |
| 1981 | 4,727,142 | 972,755 | 5,468,801 | 29,770,052 | 12,870,708 | 1,128,323 | 3,088,869 | 58,026,649 | 5,613,298,527 | 1.03% |
| 1982 | 4,842,344 | 991,097 | 5,691,248 | 30,541,250 | 13,193,225 | 1,157,750 | 3,232,101 | 59,649,016 | 5,702,201,597 | 1.05% |
| 1983 | 5,054,209 | 1,009,794 | 5,956,706 | 31,278,314 | 13,506,477 | 1,189,807 | 3,393,701 | 61,389,007 | 5,833,317,937 | 1.05% |
| 1984 | 5,477,229 | 1,121,010 | 6,631,193 | 33,662,256 | 14,413,698 | 1,307,266 | 3,746,168 | 66,358,820 | 6,221,038,813 | 1.07% |
| 1985 | 5,725,558 | 1,197,506 | 7,093,476 | 35,211,965 | 14,887,002 | 1,390,418 | 3,987,502 | 69,493,427 | 6,442,818,876 | 1.08% |
| 1986 | 5,971,505 | 1,265,157 | 7,432,884 | 36,571,991 | 15,303,089 | 1,466,640 | 4,212,043 | 72,223,309 | 6,651,746,687 | 1.09% |
| 1987 | 6,192,553 | 1,346,572 | 7,946,353 | 37,834,953 | 15,591,421 | 1,535,670 | 4,444,328 | 74,891,850 | 6,817,951,008 | 1.10% |
| 1988 | 6,412,136 | 1,398,548 | 8,510,066 | 39,027,733 | 15,833,160 | 1,600,486 | 4,647,105 | 77,429,233 | 7,070,634,855 | 1.10% |
| 1989 | 6,660,614 | 1,532,350 | 9,077,099 | 40,393,207 | 16,091,942 | 1,671,597 | 4,756,787 | 80,183,596 | 7,299,951,481 | 1.10% |
| 1990 | 6,776,899 | 1,591,234 | 9,376,464 | 40,953,305 | 16,481,681 | 1,717,065 | 4,955,403 | 81,852,051 | 7,425,550,590 | 1.10% |
| 1991 | 6,895,577 | 1,627,706 | 9,585,290 | 40,655,611 | 16,429,220 | 1,755,518 | 5,095,996 | 82,044,918 | 7,436,762,943 | 1.10% |
| 1992 | 7,261,317 | 1,765,571 | 10,206,082 | 42,028,182 | 16,618,602 | 1,888,930 | 5,514,480 | 85,283,163 | 7,687,933,025 | 1.11% |
| 1993 | 7,633,858 | 1,898,739 | 10,576,577 | 42,287,299 | 16,610,751 | 2,007,493 | 5,811,065 | 86,825,783 | 7,837,404,170 | 1.11% |
| 1994 | 8,115,735 | 2,058,498 | 11,256,759 | 43,818,402 | 17,153,610 | 2,161,180 | 6,300,638 | 90,864,821 | 8,105,117,733 | 1.12% |
| 1995 | 8,473,694 | 2,245,042 | 11,830,088 | 46,053,512 | 17,740,365 | 2,333,208 | 6,638,314 | 95,314,223 | 8,372,246,067 | 1.14% |
| 1996 | 8,935,318 | 2,443,782 | 12,637,699 | 47,747,625 | 18,463,573 | 2,555,531 | 6,997,229 | 99,780,757 | 8,710,082,680 | 1.15% |
| 1997 | 9,363,522 | 2,632,346 | 13,452,973 | 50,642,496 | 18,768,094 | 2,791,513 | 7,408,278 | 105,059,222 | 9,082,425,160 | 1.16% |
| 1998 | 10,163,777 | 2,928,214 | 14,787,463 | 54,721,617 | 20,024,212 | 3,072,240 | 8,100,646 | 113,798,168 | 9,672,104,729 | 1.18% |
| 1999 | 10,796,107 | 3,145,815 | 15,495,331 | 57,166,355 | 20,293,502 | 3,384,222 | 8,581,807 | 118,863,138 | 10,008,391,414 | 1.19% |
| 2000 | 11,587,914 | 3,462,311 | 16,356,688 | 60,477,405 | 21,278,857 | 3,880,019 | 9,204,895 | 126,248,090 | 10,566,536,875 | 1.19% |
| 2001 | 11,762,709 | 3,719,885 | 16,460,985 | 59,746,102 | 21,670,468 | 4,059,112 | 9,510,774 | 126,930,035 | 10,761,582,951 | 1.18% |
| 2002 | 12,106,639 | 3,770,412 | 16,842,574 | 59,545,462 | 22,142,193 | 4,129,309 | 9,616,114 | 128,152,703 | 10,827,149,710 | 1.18% |
| 2003 | 12,300,956 | 3,850,766 | 17,266,892 | 60,280,010 | 22,025,931 | 4,270,932 | 9,901,129 | 129,896,618 | 10,979,662,826 | 1.18% |
| 2004 | 12,557,792 | 4,068,362 | 17,711,274 | 62,319,034 | 22,832,984 | 4,545,044 | 10,423,702 | 134,458,194 | 11,338,891,280 | 1.19% |
| 2005 | 12,555,171 | 4,300,985 | 17,855,361 | 62,504,374 | 22,576,884 | 4,815,785 | 10,379,403 | 134,987,963 | 11,617,368,721 | 1.16% |
| 2006 | 12,805,955 | 4,495,714 | 18,194,452 | 65,082,527 | 23,232,914 | 5,003,458 | 10,881,279 | 139,696,298 | 12,148,526,913 | 1.15% |
| 2007 | 13,107,352 | 4,802,701 | 18,706,829 | 66,490,484 | 23,508,798 | 5,263,660 | 11,332,886 | 143,212,710 | 12,478,981,986 | 1.15% |
| 2008 | 12,960,367 | 4,878,718 | 18,548,506 | 65,785,257 | 23,344,649 | 5,367,174 | 11,356,312 | 142,240,983 | 12,430,393,202 | 1.14% |
| | Average Annual Growth Rate | | | | | | | | | |
| 1980-2008 | 3.7% | 6.0% | 4.6% | 2.9% | 2.2% | 5.8% | 4.9% | 3.3% | 3.0% | |
| 1980-1990 | 3.8% | 5.4% | 5.9% | 3.4% | 2.7% | 4.5% | 5.4% | 3.7% | 3.1% | |
| 1990-2008 | 3.7% | 6.4% | 3.9% | 2.7% | 2.0% | 6.5% | 4.7% | 3.1% | 2.9% | |

(a) Seven-county Metropolitan Council share of U.S.

Source: United States Department of Commerce, Bureau of Economic Analysis.

Table 1.6

Historical Real Per Capita Personal Income (2010 dollars)

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US (a) |
|-----------|--------|--------|--------|-----------------------------------|--------|--------|------------|-------------------|------------------|--------------------|
| 1980 | 23,780 | 25,307 | 26,921 | 31,060 | 27,433 | 25,054 | 25,748 | 28,551 | 23,991 | 119.0% |
| 1981 | 23,609 | 25,626 | 27,328 | 31,218 | 27,699 | 25,102 | 26,516 | 28,754 | 24,462 | 117.5% |
| 1982 | 23,832 | 25,732 | 27,787 | 31,766 | 28,202 | 25,277 | 27,193 | 29,234 | 24,614 | 118.8% |
| 1983 | 24,611 | 26,026 | 28,689 | 32,350 | 28,784 | 25,863 | 28,223 | 29,885 | 24,951 | 119.8% |
| 1984 | 26,221 | 28,494 | 30,988 | 34,601 | 30,675 | 27,704 | 30,570 | 31,985 | 26,380 | 121.2% |
| 1985 | 26,835 | 29,783 | 32,062 | 35,726 | 31,417 | 28,383 | 31,961 | 32,966 | 27,079 | 121.7% |
| 1986 | 27,353 | 30,661 | 32,463 | 36,665 | 31,958 | 29,097 | 33,030 | 33,705 | 27,700 | 121.7% |
| 1987 | 27,543 | 31,505 | 32,935 | 37,622 | 32,442 | 29,213 | 33,882 | 34,373 | 28,140 | 122.1% |
| 1988 | 27,595 | 31,277 | 33,369 | 38,307 | 32,748 | 29,155 | 33,899 | 34,778 | 28,919 | 120.3% |
| 1989 | 28,005 | 33,093 | 34,178 | 39,343 | 33,136 | 29,610 | 33,608 | 35,479 | 29,576 | 120.0% |
| 1990 | 27,632 | 32,871 | 33,745 | 39,563 | 33,876 | 29,460 | 33,724 | 35,612 | 29,747 | 119.7% |
| 1991 | 27,411 | 32,392 | 33,408 | 38,971 | 33,647 | 29,100 | 33,451 | 35,169 | 29,397 | 119.6% |
| 1992 | 28,226 | 33,895 | 34,399 | 40,019 | 33,811 | 30,199 | 34,815 | 36,004 | 29,971 | 120.1% |
| 1993 | 29,167 | 34,880 | 34,581 | 39,908 | 33,741 | 30,699 | 34,864 | 36,087 | 30,153 | 119.7% |
| 1994 | 30,251 | 36,155 | 36,194 | 40,989 | 34,751 | 31,618 | 36,253 | 37,224 | 30,803 | 120.8% |
| 1995 | 31,013 | 37,641 | 37,060 | 42,764 | 35,777 | 32,868 | 37,073 | 38,512 | 31,442 | 122.5% |
| 1996 | 32,111 | 39,291 | 38,511 | 44,058 | 37,051 | 34,589 | 38,065 | 39,779 | 32,332 | 123.0% |
| 1997 | 33,089 | 41,170 | 40,082 | 46,474 | 37,348 | 35,902 | 39,362 | 41,350 | 33,312 | 124.1% |
| 1998 | 35,280 | 44,476 | 43,083 | 49,792 | 39,568 | 37,986 | 42,116 | 44,186 | 35,062 | 126.0% |
| 1999 | 36,772 | 46,139 | 44,207 | 51,518 | 39,856 | 39,770 | 43,476 | 45,479 | 35,867 | 126.8% |
| 2000 | 38,655 | 48,861 | 45,701 | 54,083 | 41,594 | 42,600 | 45,446 | 47,605 | 37,447 | 127.1% |
| 2001 | 38,566 | 50,881 | 45,269 | 53,111 | 42,244 | 41,760 | 46,014 | 47,300 | 37,749 | 125.3% |
| 2002 | 39,176 | 49,817 | 45,742 | 53,013 | 43,366 | 40,025 | 45,954 | 47,479 | 37,620 | 126.2% |
| 2003 | 39,405 | 49,123 | 46,422 | 53,712 | 43,563 | 39,561 | 46,615 | 47,919 | 37,818 | 126.7% |
| 2004 | 39,594 | 50,214 | 47,011 | 55,508 | 45,595 | 39,985 | 48,713 | 49,323 | 38,693 | 127.5% |
| 2005 | 39,177 | 51,237 | 46,833 | 55,723 | 45,416 | 40,639 | 47,714 | 49,256 | 39,281 | 125.4% |
| 2006 | 39,474 | 51,968 | 47,184 | 57,833 | 46,773 | 40,767 | 48,984 | 50,551 | 40,686 | 124.2% |
| 2007 | 40,087 | 54,378 | 47,931 | 58,634 | 47,073 | 41,717 | 50,060 | 51,303 | 41,379 | 124.0% |
| 2008 | 39,393 | 54,111 | 47,134 | 57,511 | 46,442 | 41,535 | 49,431 | 50,473 | 40,839 | 123.6% |
| | | | | Average Annual Growth Rate | | | | | | |
| 1980-2008 | 1.8% | 2.8% | 2.0% | 2.2% | 1.9% | 1.8% | 2.4% | 2.1% | 1.9% | 0.1% |
| 1980-1990 | 1.5% | 2.6% | 2.3% | 2.4% | 2.1% | 1.6% | 2.7% | 2.2% | 2.2% | 0.1% |
| 1990-2008 | 2.0% | 2.8% | 1.9% | 2.1% | 1.8% | 1.9% | 2.1% | 2.0% | 1.8% | 0.2% |

(a) Seven-county Metropolitan Council share of U.S.

Source: United States Department of Commerce, Bureau of Economic Analysis.

Table 1.7

Projected Per Capita Income (2010 Dollars)

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US |
|--|--------|--------|--------|----------|--------|--------|------------|-------------------|------------------|----------------|
| Woods & Poole (W&P) Forecasts (a) | | | | | | | | | | |
| 2000 | 38,655 | 48,861 | 45,701 | 54,083 | 41,594 | 42,600 | 45,446 | 47,605 | 37,447 | 127.13% |
| 2005 | 39,177 | 51,237 | 46,833 | 55,723 | 45,416 | 40,639 | 47,714 | 49,256 | 39,281 | 125.40% |
| 2008 | 39,393 | 54,111 | 47,134 | 57,511 | 46,442 | 41,535 | 49,431 | 50,473 | 40,839 | 123.59% |
| 2010 | 34,885 | 43,104 | 41,775 | 53,812 | 44,334 | 34,300 | 42,523 | 45,938 | 39,184 | 117.24% |
| 2015 | 36,550 | 41,105 | 45,535 | 56,582 | 46,767 | 34,922 | 44,515 | 48,133 | 41,649 | 115.57% |
| 2020 | 38,192 | 38,947 | 49,539 | 60,065 | 49,771 | 35,595 | 46,454 | 50,667 | 44,276 | 114.43% |
| 2025 | 41,630 | 39,803 | 55,111 | 64,341 | 53,157 | 37,093 | 50,028 | 54,383 | 47,186 | 115.25% |
| 2030 | 45,390 | 41,031 | 61,300 | 68,947 | 56,794 | 38,978 | 54,047 | 58,453 | 50,414 | 115.95% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2030 | 0.6% | -1.2% | 1.2% | 0.8% | 0.9% | -0.3% | 0.4% | 0.7% | 1.0% | -0.3% |
| Woods & Poole Forecasts Adjusted for Base Year (b) | | | | | | | | | | |
| 2000 | 38,655 | 48,861 | 45,701 | 54,083 | 41,594 | 42,600 | 45,446 | 47,605 | 37,447 | 127.13% |
| 2005 | 39,177 | 51,237 | 46,833 | 55,723 | 45,416 | 40,639 | 47,714 | 49,256 | 39,281 | 125.40% |
| 2008 (a) | 39,474 | 51,968 | 47,184 | 57,833 | 46,773 | 40,767 | 48,984 | 50,551 | 40,686 | 124.25% |
| 2010 | 34,957 | 41,397 | 41,820 | 54,112 | 44,649 | 33,666 | 42,139 | 46,009 | 39,037 | 117.86% |
| 2015 | 36,625 | 39,477 | 45,584 | 56,898 | 47,100 | 34,276 | 44,113 | 48,207 | 41,492 | 116.18% |
| EA Analysis Period | | | | | | | | | | |
| 2020 | 38,270 | 37,404 | 49,592 | 60,401 | 50,126 | 34,936 | 46,034 | 50,745 | 44,110 | 115.04% |
| 2025 | 41,715 | 38,226 | 55,170 | 64,701 | 53,535 | 36,407 | 49,575 | 54,467 | 47,009 | 115.87% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2025 | 0.3% | -1.8% | 0.9% | 0.7% | 0.8% | -0.7% | 0.1% | 0.4% | 0.9% | |
| Long Term | | | | | | | | | | |
| 2030 | 45,483 | 39,406 | 61,366 | 69,333 | 57,198 | 38,257 | 53,558 | 58,543 | 50,224 | 116.56% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2030 | 0.6% | -1.2% | 1.2% | 0.8% | 0.9% | -0.3% | 0.4% | 0.7% | 1.0% | -0.3% |
| (a) Woods & Poole Economics, The Complete Economic and Demographic Data Source (CEDDS) 2011. | | | | | | | | | | |
| (b) Woods & Poole forecasts adjusted for 2008 base year. | | | | | | | | | | |

Sources: As noted and HNTB analysis.

Table 1.8

Projected Income (thousands of 2010 dollars) Adjusted for Recession

| Year | Anoka | Carver | Dakota | Hennepin | Ramsey | Scott | Washington | 7-County Total | United States | Share of US |
|--|------------|-----------|------------|------------|------------|-----------|------------|----------------|----------------|-------------|
| Woods & Poole (W&P) Forecasts (a) | | | | | | | | | | |
| 2000 | 11,587,912 | 3,462,308 | 16,356,687 | 60,477,403 | 21,278,851 | 3,880,015 | 9,204,896 | 126,248,073 | 10,566,536,924 | 1.19% |
| 2005 | 12,555,171 | 4,300,985 | 17,855,361 | 62,504,374 | 22,576,884 | 4,815,785 | 10,379,403 | 134,987,963 | 11,617,401,581 | 1.16% |
| 2008 | 12,960,367 | 4,878,717 | 18,548,504 | 65,785,259 | 23,344,652 | 5,367,175 | 11,356,312 | 142,240,985 | 12,430,421,528 | 1.14% |
| 2010 | 12,241,046 | 4,428,813 | 17,299,678 | 63,140,847 | 22,801,040 | 4,967,021 | 10,394,875 | 135,273,320 | 12,147,320,108 | 1.11% |
| 2015 | 13,811,966 | 5,235,838 | 20,231,395 | 69,177,673 | 24,540,234 | 5,813,431 | 12,161,596 | 150,972,132 | 13,550,178,906 | 1.11% |
| 2020 | 15,463,611 | 5,920,115 | 23,505,938 | 76,395,089 | 26,635,700 | 6,696,338 | 14,026,935 | 168,643,726 | 15,109,217,724 | 1.12% |
| 2025 | 17,312,853 | 6,690,411 | 27,269,099 | 84,394,651 | 28,940,161 | 7,709,083 | 16,162,862 | 188,479,120 | 16,869,271,859 | 1.12% |
| 2030 | 19,375,305 | 7,556,895 | 31,576,796 | 93,181,196 | 31,446,940 | 8,868,613 | 18,603,390 | 210,609,135 | 18,846,062,646 | 1.12% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2030 | 1.8% | 2.0% | 2.4% | 1.6% | 1.4% | 2.3% | 2.3% | 1.8% | 1.9% | -0.1% |
| Metropolitan Council - Regional Development Framework Adjusted Population Forecasts Multiplied by W&P PCI (b) | | | | | | | | | | |
| 2000 | 11,587,914 | 3,462,311 | 16,356,688 | 60,477,405 | 21,278,857 | 3,880,019 | 9,204,895 | 126,248,090 | 10,566,536,875 | 1.19% |
| 2005 | 12,555,171 | 4,300,985 | 17,855,361 | 62,504,374 | 22,576,884 | 4,815,785 | 10,379,403 | 134,987,963 | 11,617,368,721 | 1.16% |
| 2008 | 12,960,367 | 4,878,718 | 18,548,506 | 65,785,257 | 23,344,649 | 5,367,174 | 11,356,312 | 142,240,983 | 12,430,393,202 | 1.14% |
| 2010 | 11,913,839 | 4,027,228 | 16,996,671 | 63,006,954 | 22,747,386 | 4,691,219 | 10,127,015 | 133,336,513 | 12,101,717,280 | 1.10% |
| 2015 | 13,442,768 | 4,761,075 | 19,877,039 | 69,030,979 | 24,482,488 | 5,490,631 | 11,848,211 | 148,743,864 | 13,499,309,539 | 1.10% |
| EA Analysis Period | | | | | | | | | | |
| 2020 | 15,050,263 | 5,383,305 | 23,094,228 | 76,233,090 | 26,573,023 | 6,324,514 | 13,665,483 | 166,088,730 | 15,052,495,496 | 1.10% |
| 2025 | 16,850,074 | 6,083,754 | 26,791,477 | 84,215,689 | 28,872,061 | 7,281,025 | 15,746,370 | 185,582,702 | 16,805,942,129 | 1.10% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2025 | 1.6% | 1.3% | 2.2% | 1.5% | 1.3% | 1.8% | 1.9% | 1.6% | 1.8% | |
| Long Term | | | | | | | | | | |
| 2030 | 18,857,397 | 6,871,669 | 31,023,724 | 92,983,601 | 31,372,941 | 8,376,170 | 18,124,010 | 207,330,407 | 18,775,311,752 | 1.10% |
| Average Annual Growth Rate | | | | | | | | | | |
| 2008-2030 | 1.7% | 1.6% | 2.4% | 1.6% | 1.4% | 2.0% | 2.1% | 1.7% | 1.9% | -0.2% |

(a) Woods & Poole Economics, The Complete Economic and Demographic Data Source (CEDDS) 2007.

(b) Population forecasts adjusted for base year (Table A.2) multiplied by per capita income forecasts adjusted for base year (Table A.7).

Sources: As noted and HNTB analysis.

Attachment 2

Fare and Yield Data and Projections

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Table 2.1

Historical and Projected Average Domestic MSP Fares and Yields including Airline Fees and Taxes

| Year | Nominal Fare (a) | Nominal Yield (a) | Real Fare | Real Yield | Average Distance (a) | Average Segments (a) | Additional Taxes and Fees | | | | | Nominal Fare w/ Fees (e) | Nominal Yield w/ Fees (f) | Real Fare w/ Fees (g) | Real Yield w/ Fees (h) | GDP Price Deflator (i) | | | |
|-----------------------------------|------------------|-------------------|-----------|------------|----------------------|----------------------|----------------------------|-----------------------------------|--|---|---------|--------------------------|---------------------------|-----------------------|------------------------|------------------------|-------|--|--|
| | | | | | | | Excise Tax (b) (% of Fare) | Segment Tax (b) (per Enplanement) | Security Surcharge (b) (per Enplanement) | Passenger Facility Charge (per Enplanement) | | | | | | | | | |
| | | | | | | | | | | | MSP (c) | General (d) | | | | | | | |
| 1990 | 178.03 | 0.179 | 273.63 | 0.274 | 997 | 1.31 | 8.2% | \$ - | \$ - | \$ - | \$ - | \$ - | 192.57 | 19.31 | 295.97 | 29.68 | 1.537 | | |
| 1991 | 174.97 | 0.175 | 259.55 | 0.259 | 1001 | 1.30 | 10.0% | \$ - | \$ - | \$ - | \$ - | \$ - | 192.47 | 19.22 | 285.50 | 28.51 | 1.483 | | |
| 1992 | 166.94 | 0.167 | 240.56 | 0.240 | 1003 | 1.31 | 10.0% | \$ - | \$ - | \$ 1.75 | \$ 1.75 | \$ 1.75 | 185.92 | 18.54 | 267.90 | 26.72 | 1.441 | | |
| 1993 | 179.04 | 0.179 | 252.45 | 0.253 | 999 | 1.28 | 10.0% | \$ - | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 200.79 | 20.10 | 283.11 | 28.35 | 1.410 | | |
| 1994 | 188.80 | 0.187 | 260.83 | 0.258 | 1010 | 1.29 | 10.0% | \$ - | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 211.56 | 20.96 | 292.28 | 28.95 | 1.382 | | |
| 1995 | 183.74 | 0.186 | 248.34 | 0.251 | 988 | 1.27 | 10.0% | \$ - | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 205.92 | 20.85 | 278.33 | 28.18 | 1.352 | | |
| 1996 | 197.18 | 0.198 | 260.83 | 0.262 | 994 | 1.26 | 3.5% | \$ - | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 207.78 | 20.90 | 274.86 | 27.65 | 1.323 | | |
| 1997 | 191.64 | 0.192 | 248.86 | 0.250 | 996 | 1.27 | 7.9% | \$ 0.25 | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 210.97 | 21.18 | 273.95 | 27.50 | 1.299 | | |
| 1998 | 196.32 | 0.196 | 252.53 | 0.252 | 1001 | 1.28 | 8.8% | \$ 1.25 | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 218.93 | 21.86 | 281.61 | 28.12 | 1.286 | | |
| 1999 | 186.66 | 0.185 | 236.30 | 0.235 | 1007 | 1.24 | 7.9% | \$ 2.06 | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 207.65 | 20.61 | 262.86 | 26.09 | 1.266 | | |
| 2000 | 179.50 | 0.175 | 221.70 | 0.216 | 1028 | 1.23 | 7.5% | \$ 2.50 | \$ - | \$ 3.00 | \$ 3.00 | \$ 3.00 | 199.71 | 19.42 | 246.67 | 23.98 | 1.235 | | |
| 2001 | 174.01 | 0.164 | 210.91 | 0.199 | 1058 | 1.26 | 7.5% | \$ 2.75 | \$ - | \$ 4.13 | \$ 3.90 | \$ 3.90 | 195.65 | 18.49 | 237.13 | 22.41 | 1.212 | | |
| 2002 | 173.24 | 0.160 | 207.15 | 0.192 | 1081 | 1.30 | 7.5% | \$ 3.00 | \$ 2.29 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 198.74 | 18.39 | 237.64 | 21.99 | 1.196 | | |
| 2003 | 173.33 | 0.160 | 203.13 | 0.187 | 1086 | 1.29 | 7.5% | \$ 3.00 | \$ 1.67 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 197.96 | 18.23 | 231.99 | 21.36 | 1.172 | | |
| 2004 | 165.56 | 0.152 | 189.07 | 0.174 | 1088 | 1.26 | 7.5% | \$ 3.10 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 190.52 | 17.51 | 217.58 | 20.00 | 1.142 | | |
| 2005 | 153.92 | 0.143 | 170.68 | 0.159 | 1074 | 1.23 | 7.5% | \$ 3.20 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 177.90 | 16.56 | 197.27 | 18.36 | 1.109 | | |
| 2006 | 167.30 | 0.156 | 180.56 | 0.169 | 1071 | 1.24 | 7.5% | \$ 3.30 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 192.45 | 17.97 | 207.70 | 19.40 | 1.079 | | |
| 2007 | 165.54 | 0.154 | 173.89 | 0.162 | 1076 | 1.23 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 190.64 | 17.72 | 200.26 | 18.61 | 1.050 | | |
| 2008 | 193.62 | 0.176 | 196.86 | 0.179 | 1100 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 220.89 | 20.08 | 224.59 | 20.42 | 1.017 | | |
| 2009 | 152.33 | 0.140 | 154.60 | 0.142 | 1088 | 1.25 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 176.61 | 16.23 | 179.24 | 16.47 | 1.015 | | |
| 2010 | 172.82 | 0.159 | 172.82 | 0.159 | 1087 | 1.25 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | \$ 3.90 | 198.63 | 18.27 | 198.63 | 18.27 | 1.000 | | |
| Average Annual Growth Rate | | | | | | | | | | | | | | | | | | | |
| 1990-2000 | | | | | | | | | | | | | | | | | | | |
| 2001-2010 | | | | | | | | | | | | | | | | | | | |
| 1990-2010 | | | | | | | | | | | | | | | | | | | |

(a) USDOT Origin-Destination Survey as compiled by DataBase Products.
 (b) Historical passenger ticket tax data from Air Transport Association. Values prorated when changes or expirations occurred within calendar year.
 (c) Federal Aviation Administration. Values prorated when changes occurred within calendar year.
 (d) Federal Aviation Administration. Estimated average of all airports.
 (e) Nominal fares with taxes and fees included.
 (f) Nominal yields with taxes and fees included.
 (g) Average fares with taxes and fees included converted to 2010 prices.
 (h) Average yields with taxes and fees included converted to 2010 prices.
 (i) Gross Domestic Product Implicit Price Deflator for Consumer Expenditures from U.S. Bureau of Economic Analysis.

Sources: As noted, Air Transport Association web site and HNTB analysis.

Table 2.2

**Summary National FAA Forecasts of Yield and Fare
(2009 Prices)**

| Year | FAA Forecasts (a) | | | | | | | | | | | |
|---------------------------|-------------------|----------|-------------|----------------|----------|-------------|---------------------|----------|-------------|----------------------------|----------|----------|
| | US Yield | | | US Trip Length | | | US Average Fare (c) | | | US Enplanements (millions) | | |
| | Mainline | Regional | Average (b) | Mainline | Regional | Average (b) | Mainline | Regional | Average (d) | Mainline | Regional | Total |
| 2000 | 16.87 | 37.92 | 17.81 | 872.6 | 286.5 | 799.7 | \$147.21 | \$108.64 | \$142.41 | 561.50 | 79.70 | 641.20 |
| 2005 | 12.65 | 21.73 | 13.66 | 974.1 | 434.7 | 856.1 | \$123.22 | \$94.46 | \$116.93 | 523.10 | 146.40 | 669.50 |
| 2006 | 13.17 | 21.18 | 14.11 | 995.5 | 450.4 | 871.4 | \$131.11 | \$95.39 | \$122.98 | 516.20 | 152.20 | 668.40 |
| 2007 | 12.96 | 21.01 | 13.91 | 992.7 | 451.5 | 870.2 | \$128.65 | \$94.86 | \$121.00 | 533.90 | 156.20 | 690.10 |
| 2008 | 13.05 | 21.38 | 14.08 | 999.7 | 460.8 | 873.9 | \$130.46 | \$98.52 | \$123.00 | 522.20 | 159.10 | 681.30 |
| 2009 | 11.96 | 19.04 | 12.86 | 1,003.8 | 456.5 | 870.5 | \$120.05 | \$86.92 | \$111.98 | 477.60 | 153.80 | 631.40 |
| 2010 | 12.15 | 19.95 | 13.18 | 1,011.0 | 453.8 | 869.7 | \$122.84 | \$90.53 | \$114.64 | 473.30 | 160.80 | 634.10 |
| 2015 | 11.70 | 18.92 | 12.72 | 1,043.8 | 487.9 | 899.3 | \$122.12 | \$92.31 | \$114.37 | 535.10 | 188.00 | 723.10 |
| EA Analysis Period | | | | | | | | | | | | |
| 2020 | 11.06 | 17.61 | 12.03 | 1,080.9 | 525.6 | 934.7 | \$119.55 | \$92.56 | \$112.44 | 605.10 | 216.30 | 821.40 |
| 2025 | 10.50 | 16.46 | 11.42 | 1,116.5 | 559.3 | 967.4 | \$117.23 | \$92.06 | \$110.50 | 680.70 | 248.60 | 929.30 |
| Long Term | | | | | | | | | | | | |
| 2030 | 10.01 | 15.68 | 10.84 | 1,150.4 | 587.8 | 1,000.2 | \$115.16 | \$92.17 | \$108.47 | 760.90 | 284.60 | 1,045.50 |

(a) FAA forecast data from FAA Aerospace Forecasts: Fiscal Years 2010-2030.

(b) Average weighted by number of enplanements in each category.

(c) Estimated by multiplying yield by trip length.

(d) Average weighted by number of enplanements in each category.

Sources: As noted and HNTB analysis.

Table 2.3

Projected Domestic MSP Fares and Yields Excluding Southwest Impacts

| Year | FAA Yield (a) | FAA Fare (a) | MSP Yield (b) | MSP Fare (c) |
|-----------------------------------|---------------|--------------|---------------|--------------|
| Base Case | | | | |
| 2007 | 13.91 | \$121.00 | 0.162 | \$ 173.89 |
| 2008 | 14.08 | \$123.00 | 0.179 | \$ 196.86 |
| 2009 | 12.86 | \$111.98 | 0.142 | \$ 154.60 |
| 2010 | 13.18 | \$114.64 | 0.159 | \$ 172.82 |
| 2015 | 12.72 | \$114.37 | 0.162 | \$ 183.05 |
| EA Analysis Period | | | | |
| 2020 | 12.03 | \$112.44 | 0.153 | \$ 179.96 |
| 2025 | 11.42 | \$110.50 | 0.145 | \$ 176.85 |
| Average Annual Growth Rate | | | | |
| 2008-2025 | -0.4% | -0.4% | -0.7% | -0.8% |
| Long Term | | | | |
| 2030 | 10.84 | \$108.47 | 0.138 | \$ 173.60 |
| Average Annual Growth Rate | | | | |
| 2008-2030 | -1.2% | -0.6% | -1.2% | -0.6% |

(a) Table 2.2.

(b) Assumed to increase at same rate as adjusted FAA U.S. yield forecast from 2008 to net out effect of Southwest Airlines.

(e) Assumed to increase at same rate as adjusted FAA U.S. fare forecast from 2008 to net out effect of Southwest Airlines.

Sources: As noted and HNTB analysis.

Table 2.4

Projected Average Domestic MSP Fares and Yields including Airline Fees and Taxes and Excluding Effect of Southwest Airlines

| Year | Fare Without Fees and Taxes (a) | Yield Without Fees and Taxes (a) | Average Distance (b) | Average Segments (c) | Additional Taxes and Fees | | | | | Real Fare w/ Fees (d) | Real Yield w/ Fees (e) |
|---------------------------|---------------------------------|----------------------------------|----------------------|----------------------|----------------------------|-----------------------------------|--|---|-------------|-----------------------|------------------------|
| | | | | | Excise Tax (c) (% of Fare) | Segment Tax (c) (per Enplanement) | Security Surcharge (c) (per Enplanement) | Passenger Facility Charge (per Enplanement) | | | |
| | | | | | | | | MSP (c) | General (c) | | |
| 2007 | 165.54 | 0.154 | 1076 | 1.23 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 200.26 | 18.61 |
| 2008 | 196.86 | 0.179 | 1100 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 224.38 | 20.40 |
| 2009 | 154.60 | 0.142 | 1088 | 1.25 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 179.05 | 16.46 |
| 2010 | 172.82 | 0.159 | 1087 | 1.25 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 198.63 | 18.27 |
| 2015 | 183.05 | 0.162 | 1132 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 209.54 | 18.51 |
| EA Analysis Period | | | | | | | | | | | |
| 2020 | 179.96 | 0.153 | 1177 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 206.21 | 17.52 |
| 2025 | 176.85 | 0.145 | 1218 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 202.87 | 16.66 |
| Long Term | | | | | | | | | | | |
| 2030 | 173.60 | 0.138 | 1259 | 1.24 | 7.5% | \$ 3.40 | \$ 2.50 | \$ 4.50 | \$ 3.90 | 199.37 | 15.83 |

- (a) Table 2.3.
- (b) Assumed to increase at same rate as FAA forecast of average US trip length.
- (c) Assumed to remain constant in real prices.
- (d) MSP Fare with taxes and fees added.
- (e) MSP Yield with taxes and fees added.

Sources: As noted and HNTB analysis.

Attachment 3

Variables Tested in Regression Analysis

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Table 3.1

Data Used To Estimate MSP Regression Equations

| Year | Domestic Originations | Charter Enplanements | Average Trip Distance | Average Fare (2007 Prices) | Average Yield (2007 Prices) | Employment 7-County Area | Income 7-County Area (2007 \$) | No Sched. Service By Sun Country | NWA Work Stoppage | 1991 Gulf War | Instrument Variable for 2001 | Instrument Variable for 2002 | Instrument Variable for 2003 | Instrument Variable for 2004 | NWA Chapter 11 |
|------|--------------------------|-------------------------|-----------------------------|----------------------------------|-----------------------------------|--------------------------------|--------------------------------------|--|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------|
| 1990 | 4284240 | 387320 | 997 | 281.33 | 28.22 | 1603044 | 76546647 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 4288090 | 353590 | 1001 | 271.34 | 27.10 | 1605181 | 76567544 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 4414590 | 419060 | 1003 | 254.76 | 25.41 | 1628288 | 79552668 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 4511050 | 350918 | 999 | 268.92 | 26.93 | 1662568 | 80492172 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 4598270 | 457715 | 1010 | 277.51 | 27.49 | 1713409 | 84046939 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 5021830 | 501792 | 988 | 264.44 | 26.77 | 1766851 | 88005525 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 5411820 | 481532 | 994 | 261.21 | 26.28 | 1802255 | 91965878 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 5750780 | 465628 | 996 | 260.82 | 26.18 | 1834525 | 96874609 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 5736650 | 635290 | 1001 | 268.25 | 26.79 | 1884161 | 104644525 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 6365610 | 650350 | 1007 | 250.27 | 24.84 | 1927990 | 109008820 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 7225020 | 399683 | 1028 | 234.86 | 22.84 | 1972269 | 115532307 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 6603320 | 280609 | 1058 | 225.36 | 21.30 | 1982015 | 116168728 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2002 | 6207930 | 365023 | 1081 | 225.72 | 20.88 | 1964849 | 116954718 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 2003 | 6390140 | 233692 | 1086 | 220.46 | 20.30 | 1971415 | 118465846 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 2004 | 7074980 | 240250 | 1088 | 206.71 | 19.00 | 2004534 | 123102449 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 2005 | 7609360 | 205975 | 1074 | 187.49 | 17.45 | 2045068 | 124827612 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 2006 | 7643820 | 151412 | 1071 | 197.36 | 18.43 | 2082727 | 127735714 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |

Sources: Tables A.2.1, A.2.2, 2.1, 1.3, 1.5 and HNTB analysis.

Table 3.2

Data Used To Estimate Log Form MSP Regression Equations

| Year | Domestic Originations | Charter Enplanements | Average Trip Distance | Average Fare (2007 Prices) | Average Yield (2004 Prices) | Employment 7-County Area | Income 7-County Area (2004 \$) | No Sched. Service By Sun Country | NWA Work Stoppage | 1991 Gulf War | Instrument Variable for 2001 | Instrument Variable for 2002 | Instrument Variable for 2003 | Instrument Variable for 2004 | NWA Chapter 11 |
|------|--------------------------|-------------------------|-----------------------------|----------------------------------|-----------------------------------|--------------------------------|--------------------------------------|--|-------------------------|---------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-------------------|
| YEAR | ORIG | CHARTER | DIST | FARE | YIELD | EMP | INC | SY | STRIKE | GULF | 2001 | 2002 | 2003 | 2004 | CH11 |
| 1990 | 6.63187 | 5.58807 | 2.99873 | 2.44921 | 1.45049 | 6.20495 | 7.88393 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1991 | 6.63226 | 5.54850 | 3.00060 | 2.43351 | 1.43291 | 6.20552 | 7.88404 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 1992 | 6.64489 | 5.62228 | 3.00112 | 2.40613 | 1.40501 | 6.21173 | 7.90065 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1993 | 6.65428 | 5.54521 | 2.99947 | 2.42963 | 1.43017 | 6.22078 | 7.90575 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1994 | 6.66259 | 5.66060 | 3.00414 | 2.44328 | 1.43914 | 6.23386 | 7.92452 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1995 | 6.70086 | 5.70052 | 2.99461 | 2.42232 | 1.42771 | 6.24720 | 7.94451 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1996 | 6.73334 | 5.68263 | 2.99741 | 2.41699 | 1.41959 | 6.25582 | 7.96363 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1997 | 6.75973 | 5.66804 | 2.99833 | 2.41634 | 1.41801 | 6.26352 | 7.98621 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1998 | 6.75866 | 5.80297 | 3.00064 | 2.42855 | 1.42791 | 6.27512 | 8.01972 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1999 | 6.80384 | 5.81315 | 3.00321 | 2.39840 | 1.39519 | 6.28510 | 8.03746 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2000 | 6.85884 | 5.60172 | 3.01220 | 2.37082 | 1.35862 | 6.29497 | 8.06270 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2001 | 6.81976 | 5.44810 | 3.02446 | 2.35288 | 1.32842 | 6.29711 | 8.06509 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| 2002 | 6.79295 | 5.56232 | 3.03374 | 2.35357 | 1.31983 | 6.29333 | 8.06802 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| 2003 | 6.80551 | 5.36864 | 3.03585 | 2.34333 | 1.30748 | 6.29478 | 8.07359 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| 2004 | 6.84973 | 5.38066 | 3.03661 | 2.31536 | 1.27875 | 6.30201 | 8.09027 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 2005 | 6.88135 | 5.31381 | 3.03119 | 2.27297 | 1.24178 | 6.31071 | 8.09631 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| 2006 | 6.88331 | 5.18016 | 3.02967 | 2.29527 | 1.26560 | 6.31863 | 8.10631 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |

Sources: Table 3.1 and HNTB analysis

Attachment 4

Analysis of Southwest Airlines Impact

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Table 4.1

**Relative Change in Airport Share of U.S. Originations
After Introduction of Southwest Service**

| Airport | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| BWI | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | 1.38 | 1.40 | 1.43 | 1.55 | 1.69 | 1.81 | 1.95 | 2.14 | 2.07 | 2.09 | 1.94 | 1.80 | 1.85 | 1.82 | 1.89 | 2.02 | 1.95 |
| Southwest Portion | | | | | 0.13 | 0.21 | 0.27 | 0.36 | 0.43 | 0.53 | 0.64 | 0.79 | 0.84 | 0.91 | 0.86 | 0.83 | 0.89 | 0.90 | 0.92 | 0.97 | 0.94 |
| Non-Southwest Portion | | | | | 1.25 | 1.19 | 1.16 | 1.19 | 1.26 | 1.28 | 1.31 | 1.35 | 1.24 | 1.18 | 1.09 | 0.97 | 0.96 | 0.92 | 0.97 | 1.04 | 1.01 |
| CLE | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | 1.02 | 1.20 | 1.13 | 1.06 | 1.07 | 1.09 | 1.05 | 1.01 | 0.96 | 0.93 | 0.87 | 0.87 | 0.88 | 0.87 | 0.87 | 0.89 | 0.85 | 0.73 |
| Southwest Portion | | | | 0.12 | 0.13 | 0.13 | 0.13 | 0.12 | 0.13 | 0.14 | 0.15 | 0.16 | 0.15 | 0.14 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.13 | 0.12 |
| Non-Southwest Portion | | | | 0.90 | 1.07 | 1.01 | 0.93 | 0.95 | 0.96 | 0.91 | 0.86 | 0.81 | 0.77 | 0.72 | 0.74 | 0.75 | 0.74 | 0.74 | 0.76 | 0.72 | 0.61 |
| DEN | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | | | | | | | | | | 1.08 | 1.12 | 1.21 | 1.24 | 1.26 |
| Southwest Portion | | | | | | | | | | | | | | | | | 0.07 | 0.11 | 0.16 | 0.19 | 0.21 |
| Non-Southwest Portion | | | | | | | | | | | | | | | | | 1.01 | 1.01 | 1.05 | 1.05 | 1.05 |
| DTW | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | 1.10 | 1.05 | 1.01 | 0.99 | 1.04 | 1.07 | 1.04 | 1.04 | 1.05 | 1.08 | 1.08 | 1.03 | 1.00 | 0.98 | 0.99 | 0.99 | 1.02 | 1.05 | 0.96 | 0.91 | 0.89 |
| Southwest Portion | 0.03 | 0.02 | 0.03 | 0.05 | 0.10 | 0.09 | 0.08 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 | 0.07 | 0.06 | 0.07 | 0.06 | 0.07 | 0.08 | 0.08 | 0.08 | 0.08 |
| Non-Southwest Portion | 1.07 | 1.03 | 0.98 | 0.93 | 0.95 | 0.98 | 0.97 | 0.97 | 0.97 | 1.00 | 1.01 | 0.95 | 0.93 | 0.92 | 0.92 | 0.93 | 0.95 | 0.97 | 0.88 | 0.84 | 0.81 |
| FLL | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | 1.11 | 1.12 | 1.23 | 1.35 | 1.50 | 1.60 | 1.65 | 1.71 | 1.70 | 1.60 | 1.61 | 1.67 | 1.65 | 1.83 |
| Southwest Portion | | | | | | | | 0.15 | 0.16 | 0.18 | 0.20 | 0.21 | 0.24 | 0.23 | 0.23 | 0.25 | 0.26 | 0.26 | 0.29 | 0.35 | 0.38 |
| Non-Southwest Portion | | | | | | | | 0.95 | 0.96 | 1.05 | 1.15 | 1.28 | 1.36 | 1.43 | 1.48 | 1.45 | 1.35 | 1.35 | 1.37 | 1.30 | 1.44 |
| MCO | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | 1.21 | 1.21 | 1.24 | 1.27 | 1.29 | 1.28 | 1.31 | 1.38 | 1.43 | 1.43 | 1.44 | 1.47 | 1.47 | 1.56 |
| Southwest Portion | | | | | | | | 0.08 | 0.10 | 0.11 | 0.14 | 0.17 | 0.20 | 0.21 | 0.23 | 0.27 | 0.30 | 0.32 | 0.35 | 0.37 | 0.38 |
| Non-Southwest Portion | | | | | | | | 1.13 | 1.12 | 1.12 | 1.13 | 1.12 | 1.08 | 1.10 | 1.15 | 1.16 | 1.13 | 1.11 | 1.12 | 1.10 | 1.18 |
| PHL | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | | | | | | | | | 1.19 | 1.17 | 1.14 | 1.14 | 1.14 | 1.10 |
| Southwest Portion | | | | | | | | | | | | | | | | 0.17 | 0.20 | 0.23 | 0.23 | 0.23 | 0.18 |
| Non-Southwest Portion | | | | | | | | | | | | | | | | 1.02 | 0.97 | 0.91 | 0.91 | 0.91 | 0.91 |
| PIT | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | | | | | | | | | 1.05 | 1.06 | 1.06 | 1.05 | 1.03 | |
| Southwest Portion | | | | | | | | | | | | | | | | 0.16 | 0.18 | 0.20 | 0.23 | 0.21 | |
| Non-Southwest Portion | | | | | | | | | | | | | | | | 0.89 | 0.88 | 0.85 | 0.83 | 0.81 | |
| TPA | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | 1.06 | 1.10 | 1.16 | 1.19 | 1.26 | 1.26 | 1.26 | 1.27 | 1.33 | 1.30 | 1.26 | 1.26 | 1.24 | 1.28 |
| Southwest Portion | | | | | | | | 0.12 | 0.14 | 0.17 | 0.20 | 0.24 | 0.26 | 0.26 | 0.27 | 0.30 | 0.34 | 0.35 | 0.37 | 0.39 | 0.41 |
| Non-Southwest Portion | | | | | | | | 0.94 | 0.96 | 0.99 | 0.99 | 1.02 | 1.01 | 1.00 | 1.00 | 1.03 | 0.96 | 0.91 | 0.89 | 0.85 | 0.87 |
| MSP | | | | | | | | | | | | | | | | | | | | | |
| Total Relative Share of U.S. (a) | | | | | | | | | | | | | | | | | | | | 1.04 | 1.04 |
| Southwest Portion | | | | | | | | | | | | | | | | | | | | 0.04 | 0.07 |
| Non-Southwest Portion | | | | | | | | | | | | | | | | | | | | 1.00 | 0.98 |

(a) Index where airport share of U.S. originations in last two years prior to introduction of Southwest service is set at 1.00.

Sources: US DOT Origin-Destination Survey and HNTB analysis.

Table 4.2

Estimate of Southwest Effect at Other Airport Hubs

| | Airport | | | | Average | MSP |
|---|---------|-------|-------|-------|---------|-------|
| | DEN | PHL | CLE | DTW | | |
| Share of U.S. Originations | | | | | | |
| Average of two years Immediately prior to introduction of Southwest Service | 2.24% | 1.61% | 0.92% | 1.61% | | 1.61% |
| Average in first year immediately after introduction of Southwest service. | 2.41% | 1.91% | 0.92% | 1.68% | | 1.67% |
| Percent Increase after 1 year | 7.8% | 18.8% | 0.0% | 4.2% | 7.7% | 4.0% |
| Average of two years Immediately after introduction of Southwest Service | 2.51% | 1.90% | 0.93% | 1.70% | | |
| Percent Increase after 2 years | 12.2% | 18.0% | 1.2% | 5.4% | 9.2% | 4.7% |
| Average of three years Immediately after introduction of Southwest Service | 2.58% | 1.88% | 0.99% | 1.69% | | |
| Percent Increase after 3 years (a) | 15.0% | 16.8% | 7.4% | 5.1% | 11.1% | 5.7% |

(a) MSP increase in Southwest effect after three years assumed to be the same as the increase after two years multiplied by the ratio of the average three year to two year increase for the other sample connecting hub airports.

Sources: As noted, USDOT Origin-Destination Survey as compiled by DataBase Products, and HNTB analysis.

Attachment 5

Detailed Domestic Passenger Forecasts

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Table 5.1

Historical and Projected U.S. Ratio of Enplanements to Originations (Hubbing Ratio)

| Year | US Domestic Originations (a) | US Domestic Enplanements (mil.) (b) | Ratio | U.S. Enplanement/ Origination Ratio (c) |
|---------------------------|------------------------------|-------------------------------------|-------|---|
| 1990 | 309,708,930 | 456.6 | 0.147 | 1.474 |
| 1991 | 298,682,290 | 445.7 | 0.149 | 1.492 |
| 1992 | 309,013,530 | 463.0 | 0.150 | 1.498 |
| 1993 | 321,385,460 | 470.4 | 0.146 | 1.464 |
| 1994 | 345,107,460 | 511.3 | 0.148 | 1.482 |
| 1995 | 361,589,460 | 531.1 | 0.147 | 1.469 |
| 1996 | 382,932,100 | 558.1 | 0.146 | 1.457 |
| 1997 | 394,540,870 | 577.8 | 0.146 | 1.464 |
| 1998 | 399,402,210 | 590.4 | 0.148 | 1.478 |
| 1999 | 415,932,070 | 610.9 | 0.147 | 1.469 |
| 2000 | 432,335,860 | 641.2 | 0.148 | 1.483 |
| 2002 (d) | 391,376,320 | 575.1 | 0.147 | 1.469 |
| 2003 | 398,742,200 | 587.8 | 0.147 | 1.474 |
| 2004 | 434,868,840 | 628.5 | 0.145 | 1.445 |
| 2005 | 458,524,610 | 669.5 | 0.146 | 1.460 |
| 2006 | 461,580,390 | 668.4 | 0.145 | 1.448 |
| 2007 | 470,469,680 | 690.1 | 0.147 | 1.467 |
| 2008 | 446,112,430 | 681.3 | | 1.527 |
| 2009 | 417,307,830 | 631.4 | | 1.513 |
| 2010 | | | | 1.478 |
| 2015 | | | | 1.480 |
| 2016 | | | | 1.480 |
| EA Analysis Period | | | | |
| 2020 | | | | 1.481 |
| 2025 | | | | 1.482 |
| Long Term | | | | |
| 2030 | | | | 1.484 |

(a) USDOT Origin-Destination Survey as compiled by Data Base Products.

(b) FAA Aerospace Forecasts.

(c) Enplanements divided by originations. Assumed to grow at historical (1990-2009) rates.

(d) 2001 was excluded from the analysis because of the disruptive impacts of the 9/11 attacks.

Sources: As noted and HNTB analysis.

Table 5.2

Forecast of Domestic MSP Hubbing Ratio

| Year | MSP Originations (a) | MSP Enplanements (b) | MSP Hubbing Ratio (c) | U.S. Connecting Ratio (d) |
|---------------------------|-------------------------|----------------------------|-----------------------------|---------------------------------|
| 1990 | 4,284,240 | 9,105,077 | 2.125 | 1.474 |
| 1991 | 4,288,090 | 9,175,307 | 2.140 | 1.492 |
| 1992 | 4,414,590 | 10,117,172 | 2.292 | 1.498 |
| 1993 | 4,511,050 | 10,501,014 | 2.328 | 1.464 |
| 1994 | 4,598,270 | 10,908,116 | 2.372 | 1.482 |
| 1995 | 5,021,830 | 11,905,794 | 2.371 | 1.469 |
| 1996 | 5,411,820 | 12,863,532 | 2.377 | 1.457 |
| 1997 | 5,750,780 | 13,450,964 | 2.339 | 1.464 |
| 1998 | 5,736,650 | 13,465,957 | 2.347 | 1.478 |
| 1999 | 6,365,610 | 15,231,610 | 2.393 | 1.469 |
| 2000 | 7,225,020 | 16,483,608 | 2.281 | 1.483 |
| 2001 | 6,603,320 | 15,188,607 | 2.300 | - |
| 2002 | 6,207,930 | 14,848,546 | 2.392 | 1.469 |
| 2003 | 6,390,140 | 15,295,811 | 2.394 | 1.474 |
| 2004 | 7,074,980 | 16,680,071 | 2.358 | 1.445 |
| 2005 | 7,609,360 | 16,987,530 | 2.232 | 1.460 |
| 2006 | 7,643,820 | 16,334,138 | 2.137 | 1.448 |
| 2007 | 7,703,380 | 15,903,109 | 2.064 | 1.467 |
| 2008 | 7,065,580 | 15,087,389 | 2.135 | 1.527 |
| 2009 | 6,721,144 | 14,180,454 | 2.110 | 1.513 |
| 2010 | 6,755,188 (e) | 14,069,455 | 2.083 | 1.478 |
| 2015 | | | 2.085 | 1.480 |
| 2016 | | | 2.085 | 1.480 |
| EA Analysis Period | | | | |
| 2020 | | | 2.087 | 1.481 |
| 2025 | | | 2.088 | 1.482 |
| Long Term | | | | |
| 2030 | | | 2.090 | 1.484 |

(a) Tables A.2.1 and A.4.1. Excluding Southwest Airlines.

(b) Tables A.2.2 and A.4.2. Excluding Southwest Airlines.

(c) Assumed to change at same rate as US rate.

(d) Table 5.1.

(e) Extrapolated from first three quarters.

Sources: As noted and HNTB analysis.

Table 5.3

Forecast of MSP Domestic Annual Seat Departures

| Year | Enplanements (a) | Load Factor | | Scheduled Seat Departures (d) |
|---------------------------|---------------------|-------------|---------|----------------------------------|
| | | FAA (b) | MSP (c) | |
| 2010 | 14,568,881 | 81.6 | 77.7% | 18,741,711 |
| 2015 | 16,302,440 | 82.5 | 78.6% | 20,743,014 |
| EA Analysis Period | | | | |
| 2020 | 18,608,747 | 82.9 | 79.0% | 23,563,283 |
| 2025 | 21,260,499 | 83.1 | 79.2% | 26,856,266 |
| Long Term | | | | |
| 2030 | 24,294,325 | 83.2 | 79.3% | 30,651,710 |

(a) Table A.4.2.

(b) FAA Aerospace Forecast: Fiscal Years 2010-2030.

(c) 2010 estimated by dividing enplanements by scheduled domestic seat departures. Assumed to grow at FAA rate during the forecast period.

(d) Base year levels from Official Airline Guide. Future levels estimated by dividing enplanements by MSP load factor.

Sources: As noted and HNTB analysis.

Table 5.4

Revenue Thresholds for Nonstop Service at MSP: 2009

| Geographic Category | Revenue (10 percent sample) (a) | | | | |
|------------------------------|---------------------------------|-------------|---------------------|-------------|-------------|
| | Lowest With (b) | | Highest Without (c) | | Average (d) |
| Domestic | | | | | |
| 0-300 Miles | JMS | 1,335,752 | DBQ | 11,833,310 | 6,584,531 |
| 301-500 Miles | MOT | 35,695,635 | CMI | 26,582,141 | 31,138,888 |
| 501-700 Miles (east/South) | LEX | 134,278,166 | CAK | 164,495,480 | 149,386,823 |
| 501-700 Miles (West) | GTF | 53,615,602 | CPR | 28,129,401 | 40,872,501 |
| 701-1000 Miles (East/South) | TYS | 233,132,467 | LIT | 310,593,131 | 271,862,799 |
| 701-1000 Miles (West) | GTF | 53,615,602 | JAC | 93,422,388 | 73,518,995 |
| 1001-1300 Miles (East/South) | ORF | 492,055,142 | MHT | 402,676,260 | 447,365,701 |
| 1001-1300 Miles (West) | FCA | 59,037,428 | JAC | 93,422,388 | 76,229,908 |
| 1301-1800 Miles (East/South) | RSW | 871,179,310 | PBI | 753,725,860 | 812,452,585 |
| 1301-1800 Miles (West) | PSP | 189,849,820 | RNO | 450,183,395 | 320,016,607 |
| 1801 + Miles (Alaska) | FAI | 175,198,491 | JNU | 79,265,185 | 127,231,838 |
| 1801 + Miles (HI/CR) | SJU | 915,036,885 | OGG | 675,671,082 | 795,353,984 |

(a) USDOT O&D data. Includes all domestic revenue in market. 10 percent sample of airline revenue for entire market in 2009.

(b) Lowest revenue market in geographic category with non-stop service to MSP.

(c) Highest revenue market in geographic category without non-stop service to MSP.

(d) Average revenue of lowest revenue market with non-stop service and highest revenue market without non-stop service.

Sources: As noted and HNTB analysis.

Table 5.5

Estimated New Domestic Non-Stop Markets at MSP

| Geographic Category | | 2009 | 2016 | EA Analysis Period | | Long Term |
|-------------------------------|---------------|-------------|-------------|--------------------|-------------|-------------|
| | | | | 2020 | 2025 | 2030 |
| MSP Domestic Originations (a) | | 6,987,990 | 8,269,975 | 9,176,566 | 10,474,987 | 11,959,201 |
| Domestic Fare (b) | | 154.60 | 182.44 | 179.96 | 176.85 | 173.60 |
| Revenue (000's) (c) | | 1,080,361 | 1,508,734 | 1,651,417 | 1,852,529 | 2,076,109 |
| Domestic | | | | | | |
| 0-300 Miles | threshold (d) | 6,584,531 | 6,584,531 | 6,584,531 | 6,584,531 | 6,584,531 |
| DBQ | (e) | 11,833,310 | 16,525,315 | 18,088,147 | 20,290,946 | 22,739,836 |
| CMX | (e) | 9,372,893 | 13,089,323 | 14,327,207 | 16,071,993 | 18,011,702 |
| TVF | (e) | 1,185,256 | 1,655,220 | 1,811,757 | 2,032,395 | 2,277,683 |
| 301-500 Miles | threshold (d) | 31,138,888 | 31,138,888 | 31,138,888 | 31,138,888 | 31,138,888 |
| FWA | (e) | 76,361,740 | 106,639,801 | 116,724,943 | 130,939,861 | 146,742,836 |
| CMI | (e) | 26,582,141 | 37,122,180 | 40,632,900 | 45,581,228 | 51,082,372 |
| SPI | (e) | 16,816,094 | 23,483,815 | 25,704,727 | 28,835,082 | 32,315,154 |
| 501-700 Miles (east/South) | threshold (d) | 149,386,823 | 149,386,823 | 149,386,823 | 149,386,823 | 149,386,823 |
| CAK | (e) | 164,495,480 | 229,719,298 | 251,444,318 | 282,065,539 | 316,107,691 |
| SGF | (e) | 117,679,680 | 164,340,647 | 179,882,675 | 201,789,025 | 226,142,700 |
| EVV | (e) | 56,492,187 | 78,891,807 | 86,352,765 | 96,868,919 | 108,559,913 |
| 501-700 Miles (West) | threshold (d) | 40,872,501 | 40,872,501 | 40,872,501 | 40,872,501 | 40,872,501 |
| CPR | (e) | 28,129,401 | 39,282,941 | 42,998,008 | 48,234,362 | 54,055,710 |
| GCC | (e) | 10,825,234 | 15,117,529 | 16,547,225 | 18,562,367 | 20,802,637 |
| 701-1000 Miles (East/South) | threshold (d) | 271,862,799 | 271,862,799 | 271,862,799 | 271,862,799 | 271,862,799 |
| LIT | (e) | 310,593,131 | 433,745,876 | 474,766,104 | 532,583,747 | 596,860,641 |
| SYR | (e) | 291,474,584 | 407,046,668 | 445,541,897 | 499,800,577 | 560,120,910 |
| GSO | (e) | 228,238,447 | 318,736,879 | 348,880,473 | 391,367,597 | 438,601,283 |
| HSV | (e) | 220,067,955 | 307,326,719 | 336,391,231 | 377,357,399 | 422,900,211 |
| JAN | (e) | 195,017,782 | 272,343,946 | 298,100,065 | 334,403,085 | 374,761,792 |
| BTW | (e) | 192,969,305 | 269,483,230 | 294,968,806 | 330,890,497 | 370,825,274 |
| CAE | (e) | 192,304,786 | 268,555,225 | 293,953,038 | 329,751,026 | 369,548,283 |
| MDT | (e) | 183,435,974 | 256,169,855 | 280,396,358 | 314,543,396 | 352,505,262 |
| GSP | (e) | 174,404,535 | 243,557,376 | 266,591,091 | 299,056,906 | 335,149,725 |
| 701-1000 Miles (West) | threshold (d) | 73,518,995 | 73,518,995 | 73,518,995 | 73,518,995 | 73,518,995 |
| JAC | (e) | 93,422,388 | 130,465,138 | 142,803,491 | 160,194,288 | 179,527,945 |
| ASE | (e) | 78,765,563 | 109,996,760 | 120,399,377 | 135,061,772 | 151,362,216 |
| GJT | (e) | 66,301,195 | 92,590,167 | 101,346,607 | 113,688,730 | 127,409,687 |
| EGE | (e) | 58,679,903 | 81,946,970 | 89,696,861 | 100,620,263 | 112,764,002 |
| IDA | (e) | 50,271,181 | 70,204,120 | 76,843,466 | 86,201,564 | 96,605,128 |
| DRO | (e) | 47,090,613 | 65,762,431 | 71,981,717 | 80,747,746 | 90,493,094 |
| HDN | (e) | 36,204,907 | 50,560,452 | 55,342,057 | 62,081,685 | 69,574,250 |
| 1001-1300 Miles (East/South) | threshold (d) | 447,365,701 | 447,365,701 | 447,365,701 | 447,365,701 | 447,365,701 |
| MHT | (e) | 402,676,260 | 562,340,729 | 615,522,433 | 690,481,567 | 773,814,960 |
| ELP | (e) | 400,649,714 | 559,510,641 | 612,424,698 | 687,006,585 | 769,920,587 |
| CHS | (e) | 319,537,240 | 446,236,399 | 488,437,881 | 547,920,490 | 614,048,357 |
| PWM | (e) | 245,298,027 | 342,560,724 | 374,957,387 | 420,620,193 | 471,384,339 |
| SAV | (e) | 244,503,833 | 341,451,626 | 373,743,399 | 419,258,363 | 469,858,153 |
| 1001-1300 Miles (West) | threshold (d) | 76,229,908 | 76,229,908 | 76,229,908 | 76,229,908 | 76,229,908 |
| LWS | (e) | 18,943,814 | 26,455,193 | 28,957,114 | 32,483,550 | 36,403,951 |
| FLG | (e) | 18,816,101 | 26,276,841 | 28,761,895 | 32,264,557 | 36,158,528 |

Table 5.5

Estimated New Domestic Non-Stop Markets at MSP

| Geographic Category | | 2009 | 2016 | EA Analysis Period | | Long Term |
|------------------------------|---------------|-------------|---------------|--------------------|---------------|---------------|
| | | | | 2020 | 2025 | 2030 |
| 1301-1800 Miles (East/South) | threshold (d) | 812,452,585 | 812,452,585 | 812,452,585 | 812,452,585 | 812,452,585 |
| PBI | (e) | 753,725,860 | 1,052,584,399 | 1,152,129,442 | 1,292,437,285 | 1,448,419,992 |
| 1301-1800 Miles (West) | threshold (d) | 320,016,607 | 320,016,607 | 320,016,607 | 320,016,607 | 320,016,607 |
| RNO | (e) | 450,183,395 | 628,684,836 | 688,140,836 | 771,943,535 | 865,108,475 |
| FAT | (e) | 168,722,085 | 235,621,788 | 257,905,019 | 289,313,032 | 324,229,875 |
| 1801 + Miles (Alaska) | threshold (d) | 127,231,838 | 127,231,838 | 127,231,838 | 127,231,838 | 127,231,838 |
| JNU | (e) | 79,265,185 | 110,694,487 | 121,163,089 | 135,918,490 | 152,322,330 |
| 1801 + Miles (HI/CR) | threshold (d) | 795,353,984 | 795,353,984 | 795,353,984 | 795,353,984 | 795,353,984 |
| OGG | (e) | 675,671,082 | 943,580,257 | 1,032,816,556 | 1,158,594,319 | 1,298,423,679 |
| LIH | (e) | 344,187,596 | 480,660,826 | 526,117,895 | 590,189,227 | 661,418,457 |
| KOA | (e) | 333,992,729 | 466,423,610 | 510,534,237 | 572,707,770 | 641,827,184 |

(a) Table A.4.1.

(b) Table 2.4.

(c) Revenue growth estimated by multiplying originations by average fare.

(d) Table 5.4.

(e) Base year revenue from USDOT O&D Survey. Assumed to grow at same rate as MSP revenue.

Sources: As noted and HNTB analysis.

Table 5.6

Forecast of MSP Domestic Scheduled Seat Departures by Market

| Market | Annual Seats (a) | | | | | |
|--------|--------------------------------|---------|---------|--------------------|---------|-----------|
| | | | | EA Analysis Period | | Long Term |
| | 2010 | 2015 | 2016 | 2020 | 2025 | 2030 |
| ABE | Allentown, PA USA | 0 | 0 | 0 | 0 | 0 |
| ABQ | Albuquerque NM USA | 96556 | 109447 | 107849 | 122773 | 142950 |
| ABR | Aberdeen SD USA | 33954 | 36360 | 35381 | 38474 | 42352 |
| ALB | Albany NY USA | 31996 | 34284 | 33436 | 36688 | 40869 |
| ALO | Waterloo IA USA | 37144 | 39583 | 38479 | 41714 | 45761 |
| ANC | Anchorage(Intl) AK USA | 152543 | 167713 | 164151 | 182469 | 206414 |
| ASE | Aspen CO USA | 0 | 0 | 13800 | 15740 | 18376 |
| ATL | Atlanta(Intl) GA USA | 861376 | 970378 | 954589 | 1026190 | 1123560 |
| ATW | Appleton WI USA | 84138 | 93261 | 91265 | 101382 | 114695 |
| ATY | Watertown SD USA | 24820 | 26861 | 26186 | 28707 | 31912 |
| AUS | Austin(Bergstrom Intl) TX USA | 79374 | 93275 | 92514 | 107693 | 129160 |
| AVL | Ashville NC USA | 0 | 0 | 0 | 0 | 0 |
| AZO | Kalamazoo MI USA | 18200 | 19435 | 18921 | 20630 | 22806 |
| BDL | Hartford(Bradley Intl) CT USA | 134464 | 151568 | 149140 | 168971 | 195494 |
| BGR | Bangor ME USA | 0 | 0 | 0 | 0 | 0 |
| BHM | Birmingham AL USA | 21312 | 23430 | 22940 | 25525 | 28927 |
| BIL | Billings MT USA | 72280 | 79788 | 78156 | 87123 | 98847 |
| BIS | Bismarck ND USA | 143502 | 155884 | 152235 | 167898 | 188190 |
| BJI | Bemidji MN USA | 39066 | 43568 | 42730 | 47832 | 54559 |
| BKX | Brookings SD USA | 0 | 0 | 0 | 0 | 0 |
| BMI | Bloomington IL USA | 14600 | 16374 | 16062 | 17990 | 20546 |
| BNA | Nashvill(Intl) TN USA | 93820 | 107571 | 106204 | 121704 | 142574 |
| BOI | Boise ID USA | 73322 | 85417 | 84568 | 97846 | 115912 |
| BOS | Boston(Intl) MA USA | 269616 | 291081 | 283812 | 311118 | 345907 |
| BRD | Brainerd MN USA | 30512 | 34876 | 34427 | 39435 | 46273 |
| BTM | Butte MT USA | 0 | 0 | 0 | 0 | 0 |
| BTR | Baton Rouge LA USA | 0 | 0 | 0 | 0 | 0 |
| BTV | Burlington VT USA | 0 | 0 | 0 | 27740 | 31313 |
| BUF | Buffalo(Intl) NY USA | 22952 | 24188 | 23481 | 25326 | 27612 |
| BWI | Baltimore(Intl) MD USA | 174102 | 192919 | 189198 | 211791 | 241520 |
| BZN | Bozeman MT USA | 92552 | 108695 | 107670 | 124783 | 148344 |
| CAE | Columbia SC USA | 0 | 0 | 0 | 20532 | 23267 |
| CAK | Akron OH USA | 0 | 0 | 36500 | 39620 | 43594 |
| CHI | Chicago IL USA | 1632249 | 1771136 | 1796968 | 1900294 | 2121635 |
| CHS | Charleston SC USA | 304 | 0 | 48192 | 54967 | 64290 |
| CID | Cedar Rapids/Iowa City IA USA | 72034 | 78207 | 76291 | 83773 | 93377 |
| CLE | Cleveland(Intl) OH USA | 147054 | 155423 | 150933 | 163023 | 177999 |
| CLT | Charlotte NC USA | 259309 | 298876 | 295358 | 339549 | 399766 |
| CMH | Columbus(Intl) OH USA | 125929 | 137237 | 134131 | 148321 | 166789 |
| CMI | Champagne IL USA | 0 | 0 | 14600 | 15945 | 17634 |
| CMX | Hancock MI USA | 5916 | 6262 | 20850 | 22020 | 23397 |
| COS | Colorado Springs CO USA | 39036 | 43411 | 42587 | 47724 | 54523 |
| CPR | Casper WY USA | 0 | 0 | 33896 | 37509 | 42153 |
| CVG | Cincinnati(Intl) OH USA | 126440 | 137828 | 134639 | 164807 | 204216 |
| CWA | Wausau(Central) WI USA | 65482 | 70291 | 68527 | 75087 | 83497 |
| DAY | Dayton(Intl) OH USA | 47686 | 50252 | 48799 | 52705 | 57519 |
| DBQ | Bubuque IA USA | 162 | 173 | 20850 | 22662 | 24965 |
| DEN | Denver(Intl) CO USA | 924618 | 1040596 | 1023237 | 1156163 | 1336464 |
| DFW | Dallas/Ft. Worth(Intl) TX USA | 516566 | 589592 | 581607 | 664513 | 776589 |
| DLH | Duluth MN USA | 119263 | 125092 | 121378 | 130673 | 142239 |
| DRO | Durango Col USA | 0 | 0 | 0 | 0 | 13800 |
| DSM | Des Moines IA USA | 125298 | 137201 | 134365 | 149662 | 169920 |
| DTW | Detroit(Metro Wayne) MI USA | 525843 | 560294 | 545006 | 592266 | 651723 |
| EAU | Eau Claire WI USA | 4140 | 0 | 0 | 0 | 0 |
| EGE | Vail/Eagle CO USA | 13800 | 15669 | 15395 | 17343 | 19914 |
| ELP | El Paso TX USA | 0 | 0 | 44064 | 50229 | 58684 |
| FAI | Fairbanks(Intl) AK USA | 34040 | 36813 | 35854 | 39134 | 43253 |
| FAR | Fargo ND USA | 201467 | 219868 | 215078 | 238633 | 269446 |
| FAT | Fresno CA USA | 0 | 0 | 0 | 0 | 0 |
| FCA | Kalispell/Glacier Nt Pk MT USA | 40226 | 47126 | 46734 | 54346 | 65044 |
| FLL | Ft. Lauderdale(Intl) FL USA | 76063 | 85451 | 84040 | 95021 | 109732 |
| FNL | Ft. Collins CO USA | 162 | 0 | 0 | 0 | 0 |

Table 5.6

Forecast of MSP Domestic Scheduled Seat Departures by Market

| Market | Annual Seats (a) | | | | | | |
|--------|-----------------------------|--------|--------|--------------------|--------|-----------|---------|
| | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term | |
| | | | | 2020 | 2025 | 2030 | |
| FNT | Flint MI USA | 23750 | 24630 | 23830 | 25381 | 27261 | 29318 |
| FOD | Ft. Dodge IA USA | 13940 | 14582 | 14140 | 15172 | 16430 | 17795 |
| FSD | Sioux Falls SD USA | 165164 | 187634 | 184837 | 210200 | 244350 | 283397 |
| FWA | Ft. Wayne IN USA | 7700 | 8313 | 21000 | 23087 | 25759 | 28724 |
| GEG | Spokane(Intl) WA USA | 123008 | 133595 | 130612 | 144571 | 162728 | 183063 |
| GFK | Grand Forks ND USA | 124393 | 132702 | 129500 | 142308 | 158668 | 176742 |
| GJT | Grand Junction CO USA | 0 | 0 | 13800 | 15560 | 17921 | 20618 |
| GPT | Culport MI USA | 0 | 0 | 0 | 0 | 0 | 0 |
| GPZ | Grand Rapids MI USA | 0 | 0 | 0 | 0 | 0 | 0 |
| GRB | Green Bay WI USA | 125768 | 136098 | 132725 | 145606 | 162122 | 180531 |
| GRI | Grand Island NE USA | 0 | 0 | 0 | 0 | 0 | 0 |
| GRR | Grand Rapids MI USA | 177401 | 194006 | 189622 | 209710 | 236000 | 265712 |
| GSO | Greensboro NC USA | 0 | 0 | 20532 | 22596 | 25287 | 28326 |
| GSP | Greenville SC USA | 0 | 0 | 0 | 0 | 20532 | 22965 |
| GTF | Great Falls MT USA | 33896 | 35538 | 34451 | 36995 | 40140 | 43621 |
| HDN | Steamboat Springs CO USA | 8224 | 9299 | 9112 | 10170 | 11542 | 13068 |
| HIB | Hibbing/Chisholm MN USA | 33856 | 35446 | 34355 | 36849 | 39926 | 43326 |
| HLN | Helena MT USA | 27664 | 30631 | 30021 | 33551 | 38169 | 43345 |
| HNL | Honolulu Oahu HI USA | 75096 | 81093 | 79044 | 86550 | 96041 | 106493 |
| HON | Huron SD USA | 0 | 0 | 0 | 0 | 0 | 0 |
| HOU | Houston TX USA | 229824 | 261635 | 257681 | 292791 | 340588 | 395835 |
| HRL | Harlingen TX USA | 19056 | 21950 | 21753 | 25249 | 30149 | 35918 |
| HSV | Huntsville AL USA | 0 | 0 | 21312 | 24310 | 28318 | 32859 |
| ICT | Wichita KS USA | 41150 | 44480 | 43396 | 47676 | 53238 | 59515 |
| IDA | Idaho Fall ID USA | 0 | 0 | 0 | 13800 | 16387 | 19345 |
| IFP | Bullhead City AZ USA | 7641 | 8991 | 8936 | 10479 | 12672 | 15284 |
| IMT | Iron Mountain MI USA | 12410 | 13017 | 12647 | 13671 | 14944 | 16339 |
| IND | Indianapolis IN USA | 171239 | 186931 | 182662 | 201832 | 226886 | 255168 |
| INL | International Falls MN USA | 27846 | 29353 | 28458 | 30680 | 33398 | 36383 |
| IWD | Ironwood MI USA | 0 | 0 | 0 | 0 | 0 | 0 |
| JAC | Jackson WY USA | 9672 | 11430 | 11362 | 13316 | 16035 | 19211 |
| JAN | Jackson MS USA | 0 | 0 | 21312 | 23442 | 26197 | 29278 |
| JAX | Jacksonville(Intl) FL USA | 48192 | 53836 | 52885 | 59547 | 68426 | 78526 |
| JMS | Jamestown ND USA | 24820 | 26216 | 25451 | 27443 | 29875 | 32503 |
| JNU | Juneau AK USA | 0 | 0 | 0 | 0 | 34040 | 37476 |
| LAN | Lansing MI USA | 18000 | 19255 | 18734 | 20376 | 22438 | 24707 |
| LAS | Las Vegas(Intl) NV USA | 461681 | 532627 | 527125 | 609007 | 723295 | 857705 |
| LBB | Lubbock TX USA | 0 | 0 | 0 | 0 | 0 | 0 |
| LEX | Lexington KY USA | 11430 | 31300 | 30530 | 33512 | 37326 | 41563 |
| LIT | Little Rock AR USA | 0 | 0 | 21312 | 23652 | 26720 | 30179 |
| LNK | Lincoln NE USA | 55550 | 60914 | 59635 | 66350 | 75181 | 85161 |
| LOS | Los Angeles USA | 580823 | 637610 | 648642 | 692769 | 782921 | 884493 |
| LSE | La Crosse WI USA | 79434 | 86523 | 84549 | 93455 | 104986 | 117875 |
| MBS | Saginaw MI USA | 18200 | 18727 | 18088 | 19139 | 20390 | 21757 |
| MCI | Kansas City(Intl) MO USA | 231384 | 256018 | 250986 | 280579 | 319643 | 363779 |
| MCO | Orlando(Intl) FL USA | 376027 | 428155 | 422165 | 481567 | 561756 | 653485 |
| MCW | Mason City IA USA | 31926 | 33815 | 32906 | 35772 | 39387 | 43377 |
| MDT | Harrisburg PA USA | 0 | 0 | 0 | 27740 | 30632 | 33840 |
| MEM | Memphis TN USA | 228996 | 249590 | 243829 | 306995 | 389403 | 540364 |
| MHT | Manchester NH USA | 0 | 0 | 35944 | 40313 | 46152 | 52824 |
| MIA | Miami(Intl) FL USA | 175948 | 193015 | 189091 | 210866 | 239534 | 271878 |
| MKE | Milwaukee WI USA | 558451 | 582138 | 564608 | 606930 | 659194 | 716572 |
| MLI | Moline IL USA | 46362 | 49672 | 48342 | 52641 | 58054 | 64025 |
| MOB | Mobile AL USA | 0 | 0 | 0 | 0 | 0 | 0 |
| MOT | Minot ND USA | 101852 | 108720 | 105771 | 115071 | 126644 | 139300 |
| MQT | Marquette MI USA | 20850 | 21866 | 21304 | 23268 | 25769 | 28536 |
| MSN | Madison(Dane County) WI USA | 171252 | 190088 | 186507 | 209108 | 239015 | 272839 |
| MSO | Missoula MT USA | 51168 | 56902 | 55987 | 63380 | 73436 | 85054 |
| MSY | New Orleans(Intl) LA USA | 50003 | 54358 | 53098 | 58593 | 65645 | 73467 |
| MTJ | Montrose CO USA | 0 | 0 | 0 | 0 | 0 | 0 |
| MYR | Myrtle Beach SC USA | 304 | 0 | 0 | 0 | 0 | 0 |
| NYC | New York City NY USA | 812104 | 874225 | 885910 | 932652 | 1035395 | 1149499 |

Table 5.6

Forecast of MSP Domestic Scheduled Seat Departures by Market

| Market | | Annual Seats (a) | | | | | |
|--------|-------------------------------------|------------------|----------|----------|--------------------|-----------|----------|
| | | | | | EA Analysis Period | Long Term | |
| | | 2010 | 2015 | 2016 | 2020 | 2025 | 2030 |
| OGG | Kahului HI USA | 0 | 0 | 40547 | 46011 | 53380 | 61820 |
| OKC | Oklahoma City(Rogers) Oklahoma USA | 51850 | 56404 | 55176 | 61210 | 69108 | 78008 |
| OMA | Omaha NE USA | 199118 | 217173 | 212160 | 234205 | 262751 | 294704 |
| ORF | Norfolk/Va.Bch/Wmbg VA USA | 28136 | 30793 | 30134 | 33473 | 37835 | 42738 |
| PBI | West Palm Beach FL USA | 1935 | 0 | 194112 | 222244 | 260496 | 304490 |
| PDX | Portland OR USA | 241729 | 267410 | 262099 | 310839 | 374493 | 473000 |
| PHL | Philadelphia(Intl) PA USA | 337087 | 365883 | 357178 | 393269 | 439820 | 491829 |
| PHX | Phoenix(Intl) AZ USA | 669557 | 750459 | 737943 | 833841 | 962260 | 1108540 |
| PIA | Peoria IL USA | 32624 | 34660 | 33720 | 36670 | 40364 | 44418 |
| PIR | Pierre SD USA | 18188 | 19573 | 19089 | 20966 | 23351 | 25989 |
| PIT | Pittsburgh(Intl) PA USA | 103970 | 111121 | 108154 | 117794 | 130020 | 143591 |
| PLN | Emmet County USA | 0 | 0 | 0 | 0 | 0 | 0 |
| PNS | Pensacola USA | 0 | 0 | 0 | 0 | 0 | 0 |
| PSC | Pasco WA USA | 18468 | 25550 | 25266 | 29118 | 34416 | 40565 |
| PSP | Palm Springs CA USA | 20338 | 23493 | 23230 | 26758 | 31594 | 37181 |
| PVD | Providence RI USA | 35944 | 38545 | 37580 | 41192 | 45833 | 51010 |
| PWM | Portland ME USA | 0 | 0 | 0 | 0 | 0 | 27740 |
| RAP | Rapid City(Regional) SD USA | 106150 | 116189 | 113675 | 126191 | 142522 | 160880 |
| RDU | Raleigh/Durham NC USA | 111407 | 129911 | 128649 | 148958 | 176532 | 208072 |
| RFD | Rockford IL USA | 162 | 176 | 172 | 189 | 211 | 235 |
| RHI | Rhineland WI USA | 36676 | 40202 | 39288 | 43424 | 48814 | 54873 |
| RIC | Richmond/Wmbg VA USA | 15504 | 27740 | 27278 | 30824 | 35622 | 41152 |
| RNO | Reno NV USA | 0 | 0 | 56646 | 64170 | 74246 | 85721 |
| ROA | Roanoke VA USA | 0 | 0 | 0 | 0 | 0 | 0 |
| ROC | Rochester NY USA | 13686 | 27740 | 26979 | 29304 | 32231 | 35466 |
| RST | Rochester MN USA | 88792 | 101143 | 103324 | 112049 | 128917 | 148063 |
| RSW | Ft. Myers(Southwest Fl Intl) FL USA | 194112 | 225434 | 232303 | 259779 | 310672 | 370699 |
| SAN | San Diego(Intl) CA USA | 219257 | 243338 | 248066 | 266977 | 304493 | 346984 |
| SAT | San Antonio TX USA | 88128 | 101252 | 99958 | 114511 | 134173 | 156641 |
| SAV | Savannah/Hilton Head GA USA | 304 | 0 | 0 | 0 | 0 | 48192 |
| SBN | South Bend(Regional) IN USA | 21000 | 22444 | 22711 | 23779 | 26201 | 28856 |
| SDF | Louisville KY USA | 70474 | 76110 | 77233 | 81727 | 91383 | 102241 |
| SEA | Seattle/Tacoma(Intl) WA USA | 592802 | 658045 | 663656 | 686099 | 741409 | 750884 |
| SFO | San Francisco(Intl) CA USA | 518137 | 565095 | 577456 | 626898 | 723467 | 858191 |
| SGF | Springfield MO USA | 3400 | 3793 | 31300 | 35292 | 40625 | 46691 |
| SJU | San Juan(Intl) Puerto Rico | 7176 | 7870 | 8007 | 8553 | 9670 | 10930 |
| SLC | Salt Lake City UT USA | 281894 | 316853 | 323985 | 352513 | 407647 | 470970 |
| SMF | Sacramento(Metro) CA USA | 113292 | 125840 | 128476 | 139019 | 159572 | 182926 |
| SPI | Springfield IL USA | 0 | 0 | 0 | 0 | 0 | 14600 |
| SRQ | Sarasota FL USA | 0 | 0 | 0 | 0 | 0 | 0 |
| STC | St. Croix VI USA | 162 | 178 | 181 | 193 | 218 | 247 |
| STL | St. Louis(Intl) MO USA | 365449 | 393485 | 398694 | 419530 | 465519 | 516616 |
| STT | St. Thomas VI USA | 1782 | 1954 | 1988 | 2124 | 2401 | 2714 |
| SUX | Sioux City IA USA | 47890 | 50527 | 51032 | 53053 | 57961 | 63315 |
| SYR | Syracuse NY USA | 0 | 0 | 27740 | 29916 | 32591 | 35505 |
| TOL | Toledo OH USA | 5900 | 36500 | 35345 | 37774 | 40741 | 44003 |
| TPA | Tampa(Intl) FL USA | 152289 | 168852 | 172335 | 186269 | 213619 | 244761 |
| TUL | Tulsa OK USA | 40650 | 44089 | 44759 | 47441 | 53158 | 59605 |
| TUS | Tucson AZ USA | 53064 | 60432 | 61925 | 67899 | 79079 | 91755 |
| TVC | Traverse City MI USA | 34308 | 37025 | 37579 | 39794 | 44498 | 49749 |
| TVF | Thief River Falls MN USA | 0 | 0 | 0 | 0 | 0 | 0 |
| TYS | Knoxville TN USA | 20532 | 22817 | 23284 | 25151 | 28823 | 33003 |
| WAS | Washington DC USA | 419123 | 470280 | 480592 | 521840 | 601479 | 692209 |
| XNA | Fayetteville(Regional) AR USA | 40522 | 46958 | 48389 | 54113 | 64803 | 77516 |
| | Total | 18741711 | 20743014 | 21306965 | 23563283 | 26856266 | 30651710 |

(a) Assumed to grow at same rate as metropolitan income in destination area and adjusted to sum to total seat departure projections in Table 5.3.

Sources: As noted and HNTB analysis.

Table 5.7

Forecast of Domestic Average Weekday Peak Month Scheduled Seat Departures by Market at MSP

| Market | Seasonality Ratio (a) | AWDPM Seats (b) | | | | | |
|--------|-------------------------------|-----------------|------|--------------------|------|-----------|------|
| | | | | EA Analysis Period | | Long Term | |
| | | 2015 | 2016 | 2020 | 2025 | 2030 | |
| ABE | Allentown, PA USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | Albuquerque NM USA | 334.6 | 327 | 322 | 367 | 427 | 496 |
| ABR | Aberdeen SD USA | 320.6 | 113 | 110 | 120 | 132 | 145 |
| ALB | Albany NY USA | 256.3 | 134 | 130 | 143 | 159 | 178 |
| ALO | Waterloo IA USA | 310.1 | 128 | 124 | 135 | 148 | 162 |
| ANC | Anchorage(Intl) AK USA | 175.1 | 958 | 938 | 1042 | 1179 | 1333 |
| ASE | Aspen CO USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| ATL | Atlanta(Intl) GA USA | 346.0 | 2804 | 2759 | 2966 | 3247 | 3330 |
| ATW | Appleton WI USA | 332.1 | 281 | 275 | 305 | 345 | 391 |
| ATY | Watertown SD USA | 345.3 | 78 | 76 | 83 | 92 | 103 |
| AUS | Austin(Bergstrom Intl) TX USA | 405.4 | 230 | 228 | 266 | 319 | 382 |
| AVL | Ashville NC USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| AZO | Kalamazoo MI USA | 216.7 | 90 | 87 | 95 | 105 | 116 |
| BDL | Hartford(Bradley Intl) CT USA | 338.0 | 448 | 441 | 500 | 578 | 667 |
| BGR | Bangor ME USA | 84.9 | 0 | 0 | 0 | 0 | 0 |
| BHM | Birmingham AL USA | 312.6 | 75 | 73 | 82 | 93 | 105 |
| BIL | Billings MT USA | 233.9 | 341 | 334 | 372 | 423 | 479 |
| BIS | Bismarck ND USA | 292.4 | 533 | 521 | 574 | 644 | 721 |
| BJI | Bemidji MN USA | 271.6 | 160 | 157 | 176 | 201 | 229 |
| BKX | Brookings SD USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| BMI | Bloomington IL USA | 296.5 | 55 | 54 | 61 | 69 | 79 |
| BNA | Nashville(Intl) TN USA | 312.6 | 344 | 340 | 389 | 456 | 532 |
| BOI | Boise ID USA | 292.2 | 292 | 289 | 335 | 397 | 467 |
| BOS | Boston(Intl) MA USA | 287.6 | 1012 | 987 | 1082 | 1203 | 1337 |
| BRD | Brainerd MN USA | 257.9 | 135 | 133 | 153 | 179 | 210 |
| BTM | Butte MT USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| BTR | Baton Rouge LA USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| BTV | Burlington VT USA | 282.9 | 0 | 0 | 98 | 111 | 125 |
| BUF | Buffalo(Intl) NY USA | 158.9 | 152 | 148 | 159 | 174 | 190 |
| BWI | Baltimore(Intl) MD USA | 286.1 | 674 | 661 | 740 | 844 | 961 |
| BZN | Bozeman MT USA | 218.8 | 497 | 492 | 570 | 678 | 803 |
| CAE | Columbia SC USA | 335.1 | 0 | 0 | 61 | 69 | 79 |
| CAK | Akron OH USA | 322.2 | 0 | 113 | 123 | 135 | 149 |
| CHI | Chicago IL USA | 307.6 | 5758 | 5842 | 6178 | 6898 | 7702 |
| CHS | Charleston SC USA | 466.9 | 0 | 103 | 118 | 138 | 161 |
| CID | Cedar Rapids/Iowa City IA USA | 245.4 | 319 | 311 | 341 | 381 | 424 |
| CLE | Cleveland(Intl) OH USA | 322.2 | 482 | 469 | 506 | 553 | 603 |
| CLT | Charlotte NC USA | 358.2 | 834 | 825 | 948 | 1116 | 1309 |
| CMH | Columbus(Intl) OH USA | 337.2 | 407 | 398 | 440 | 495 | 556 |
| CMI | Champagne IL USA | 296.5 | 0 | 49 | 54 | 59 | 66 |
| CMX | Hancock MI USA | 364.6 | 17 | 57 | 60 | 64 | 68 |
| COS | Colorado Springs CO USA | 243.9 | 178 | 175 | 196 | 224 | 255 |
| CPR | Casper WY USA | 171.0 | 0 | 198 | 219 | 246 | 277 |
| CVG | Cincinnati(Intl) OH USA | 435.7 | 316 | 309 | 378 | 469 | 628 |
| CWA | Wausau(Central) WI USA | 337.9 | 208 | 203 | 222 | 247 | 275 |
| DAY | Dayton(Intl) OH USA | 340.7 | 148 | 143 | 155 | 169 | 184 |
| DBQ | Bubuque IA USA | 248.4 | 1 | 84 | 91 | 100 | 111 |
| DEN | Denver(Intl) CO USA | 286.4 | 3634 | 3573 | 4037 | 4667 | 5395 |
| DFW | Dallas/Ft. Worth(Intl) TX USA | 349.7 | 1686 | 1663 | 1900 | 2221 | 2588 |
| DLH | Duluth MN USA | 292.6 | 428 | 415 | 447 | 486 | 530 |
| DRO | Durango Col USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| DSM | Des Moines IA USA | 335.2 | 409 | 401 | 447 | 507 | 576 |
| DTW | Detroit(Metro Wayne) MI USA | 341.9 | 1639 | 1594 | 1732 | 1906 | 2098 |
| EAU | Eau Claire WI USA | 339.9 | 0 | 0 | 0 | 0 | 0 |
| EGE | Vail/Eagle CO USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| ELP | El Paso TX USA | 334.6 | 0 | 132 | 150 | 175 | 205 |
| FAI | Fairbanks(Intl) AK USA | 97.7 | 377 | 367 | 400 | 443 | 489 |

Table 5.7

Forecast of Domestic Average Weekday Peak Month Scheduled Seat Departures by Market at MSP

| Market | Seasonality Ratio (a) | AWDPM Seats (b) | | | | | |
|--------|--------------------------------|-----------------|------|--------------------|------|-----------|------|
| | | | | EA Analysis Period | | Long Term | |
| | | 2015 | 2016 | 2020 | 2025 | 2030 | |
| FAR | Fargo ND USA | 354.4 | 620 | 607 | 673 | 760 | 858 |
| FAT | Fresno CA USA | 248.7 | 0 | 0 | 0 | 0 | 164 |
| FCA | Kalispell/Glacier Nt Pk MT USA | 161.9 | 291 | 289 | 336 | 402 | 480 |
| FLL | Ft. Lauderdale(Intl) FL USA | 466.9 | 183 | 180 | 204 | 235 | 271 |
| FNL | Ft. Collins CO USA | 180.9 | 0 | 0 | 0 | 0 | 0 |
| FNT | Flint MI USA | 291.5 | 84 | 82 | 87 | 94 | 101 |
| FOD | Ft. Dodge IA USA | 335.2 | 44 | 42 | 45 | 49 | 53 |
| FSD | Sioux Falls SD USA | 322.3 | 582 | 573 | 652 | 758 | 879 |
| FWA | Ft. Wayne IN USA | 220.8 | 38 | 95 | 105 | 117 | 130 |
| GEG | Spokane(Intl) WA USA | 250.3 | 534 | 522 | 578 | 650 | 732 |
| GFK | Grand Forks ND USA | 323.2 | 411 | 401 | 440 | 491 | 547 |
| GJT | Grand Junction CO USA | 187.2 | 0 | 74 | 83 | 96 | 110 |
| GPT | Culport MIS USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| GPZ | Grand Rapids MIN USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| GRB | Green Bay WI USA | 292.7 | 465 | 453 | 497 | 554 | 617 |
| GRI | Grand Island NE USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| GRR | Grand Rapids MI USA | 299.7 | 647 | 633 | 700 | 788 | 887 |
| GSO | Greensboro NC USA | 335.1 | 0 | 61 | 67 | 75 | 85 |
| GSP | Greenville SC USA | 335.1 | 0 | 0 | 0 | 61 | 69 |
| GTF | Great Falls MT USA | 290.8 | 122 | 118 | 127 | 138 | 150 |
| HDN | Steamboat Springs CO USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| HIB | Hibbing/Chisholm MN USA | 376.4 | 94 | 91 | 98 | 106 | 115 |
| HLN | Helena MT USA | 289.9 | 106 | 104 | 116 | 132 | 150 |
| HNL | Honolulu Oahu HI USA | 303.4 | 267 | 260 | 285 | 317 | 351 |
| HON | Huron SD USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| HOU | Houston TX USA | 299.3 | 874 | 861 | 978 | 1138 | 1323 |
| HRL | Harlingen TX USA | 397.5 | 55 | 55 | 64 | 76 | 90 |
| HSV | Huntsville AL USA | 312.6 | 0 | 68 | 78 | 91 | 105 |
| ICT | Wichita KS USA | 362.5 | 123 | 120 | 132 | 147 | 164 |
| IDA | Idaho Fall ID USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| IFP | Bullhead City AZ USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| IMT | Iron Mountain MI USA | 349.2 | 37 | 36 | 39 | 43 | 47 |
| IND | Indianapolis IN USA | 292.7 | 639 | 624 | 689 | 775 | 872 |
| INL | International Falls MN USA | 244.2 | 120 | 117 | 126 | 137 | 149 |
| IWD | Ironwood MI USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| JAC | Jackson WY USA | 95.3 | 120 | 119 | 140 | 168 | 202 |
| JAN | Jackson MS USA | 312.6 | 0 | 68 | 75 | 84 | 94 |
| JAX | Jacksonville(Intl) FL USA | 247.2 | 218 | 214 | 241 | 277 | 318 |
| JMS | Jamestown ND USA | 485.8 | 54 | 52 | 56 | 62 | 67 |
| JNU | Juneau AK USA | 97.7 | 0 | 0 | 0 | 348 | 383 |
| LAN | Lansing MI USA | 233.2 | 83 | 80 | 87 | 96 | 106 |
| LAS | Las Vegas(Intl) NV USA | 429.5 | 1240 | 1227 | 1418 | 1684 | 1997 |
| LBB | Lubbock TX USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| LEX | Lexington KY USA | 343.3 | 91 | 89 | 98 | 109 | 121 |
| LIT | Little Rock AR USA | 326.3 | 0 | 65 | 72 | 82 | 92 |
| LNK | Lincoln NE USA | 326.2 | 187 | 183 | 203 | 230 | 261 |
| LOS | Los Angeles USA | 274.3 | 2325 | 2365 | 2526 | 2855 | 3225 |
| LSE | La Crosse WI USA | 397.2 | 218 | 213 | 235 | 264 | 297 |
| MBS | Saginaw MI USA | 458.1 | 41 | 39 | 42 | 45 | 47 |
| MCI | Kansas City(Intl) MO USA | 284.6 | 900 | 882 | 986 | 1123 | 1278 |
| MCO | Orlando(Intl) FL USA | 519.0 | 825 | 813 | 928 | 1082 | 1259 |
| MCW | Mason City IA USA | 338.1 | 100 | 97 | 106 | 117 | 128 |
| MDT | Harrisburg PA USA | 274.4 | 0 | 0 | 101 | 112 | 123 |
| MEM | Memphis TN USA | 326.3 | 765 | 747 | 941 | 1193 | 1656 |
| MHT | Manchester NH USA | 282.9 | 0 | 127 | 142 | 163 | 187 |
| MIA | Miami(Intl) FL USA | 344.4 | 560 | 549 | 612 | 695 | 789 |
| MKE | Milwaukee WI USA | 284.8 | 2044 | 1983 | 2131 | 2315 | 2516 |
| MLI | Moline IL USA | 296.5 | 168 | 163 | 178 | 196 | 216 |
| MOB | Mobile AL USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| MOT | Minot ND USA | 318.1 | 342 | 332 | 362 | 398 | 438 |
| MQT | Marquette MI USA | 225.6 | 97 | 94 | 103 | 114 | 126 |

Table 5.7

Forecast of Domestic Average Weekday Peak Month Scheduled Seat Departures by Market at MSP

| Market | Seasonality Ratio (a) | AWDPM Seats (b) | | | | | |
|--------|-------------------------------------|--------------------|-------|-------|-------|-----------|-------|
| | | EA Analysis Period | | | | Long Term | |
| | | 2015 | 2016 | 2020 | 2025 | 2030 | |
| MSN | Madison(Dane County) WI USA | 351.4 | 541 | 531 | 595 | 680 | 776 |
| MSO | Missoula MT USA | 334.5 | 170 | 167 | 189 | 220 | 254 |
| MSY | New Orleans(Intl) LA USA | 429.1 | 127 | 124 | 137 | 153 | 171 |
| MTJ | Montrose CO USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| MYR | Myrtle Beach SC USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| NYC | New York City NY USA | 286.1 | 3056 | 3097 | 3260 | 3619 | 4018 |
| OGG | Kahului HI USA | 303.4 | 0 | 134 | 152 | 176 | 204 |
| OKC | Oklahoma City(Rogers) Oklahoma USA | 412.7 | 137 | 134 | 148 | 167 | 189 |
| OMA | Omaha NE USA | 297.2 | 731 | 714 | 788 | 884 | 992 |
| ORF | Norfolk/Va.Bch/Wmbg VA USA | 335.1 | 92 | 90 | 100 | 113 | 128 |
| PBI | West Palm Beach FL USA | 1198.4 | 0 | 162 | 185 | 217 | 254 |
| PDX | Portland OR USA | 270.3 | 989 | 970 | 1150 | 1385 | 1750 |
| PHL | Philadelphia(Intl) PA USA | 294.2 | 1244 | 1214 | 1337 | 1495 | 1672 |
| PHX | Phoenix(Intl) AZ USA | 376.8 | 1992 | 1958 | 2213 | 2554 | 2942 |
| PIA | Peoria IL USA | 341.6 | 101 | 99 | 107 | 118 | 130 |
| PIR | Pierre SD USA | 322.3 | 61 | 59 | 65 | 72 | 81 |
| PIT | Pittsburgh(Intl) PA USA | 274.4 | 405 | 394 | 429 | 474 | 523 |
| PLN | Emmet County USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| PNS | Pensacola USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| PSC | Pasco WA USA | 250.3 | 102 | 101 | 116 | 138 | 162 |
| PSP | Palm Springs CA USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| PVD | Providence RI USA | 253.9 | 152 | 148 | 162 | 181 | 201 |
| PWM | Portland ME USA | 282.9 | 0 | 0 | 0 | 0 | 98 |
| RAP | Rapid City(Regional) SD USA | 263.2 | 441 | 432 | 479 | 541 | 611 |
| RDU | Raleigh/Durham NC USA | 335.1 | 388 | 384 | 445 | 527 | 621 |
| RFD | Rockford IL USA | 344.7 | 1 | 0 | 1 | 1 | 1 |
| RHI | Rhineland WI USA | 291.9 | 138 | 135 | 149 | 167 | 188 |
| RIC | Richmond/Wmbg VA USA | 335.1 | 83 | 81 | 92 | 106 | 123 |
| RNO | Reno NV USA | 429.5 | 0 | 132 | 149 | 173 | 200 |
| ROA | Roanoke VA USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| ROC | Rochester NY USA | 282.9 | 98 | 95 | 104 | 114 | 125 |
| RST | Rochester MN USA | 419.5 | 241 | 246 | 267 | 307 | 353 |
| RSW | Ft. Myers(Southwest FI Intl) FL USA | 1198.4 | 188 | 194 | 217 | 259 | 309 |
| SAN | San Diego(Intl) CA USA | 305.3 | 797 | 813 | 874 | 997 | 1137 |
| SAT | San Antonio TX USA | 397.5 | 255 | 251 | 288 | 338 | 394 |
| SAV | Savannah/Hilton Head GA USA | 466.9 | 0 | 0 | 0 | 0 | 103 |
| SBN | South Bend(Regional) IN USA | 353.7 | 63 | 64 | 67 | 74 | 82 |
| SDF | Louisville KY USA | 343.3 | 222 | 225 | 238 | 266 | 298 |
| SEA | Seattle/Tacoma(Intl) WA USA | 264.4 | 2488 | 2510 | 2594 | 2804 | 2839 |
| SFO | San Francisco(Intl) CA USA | 261.9 | 2157 | 2205 | 2393 | 2762 | 3276 |
| SGF | Springfield MO USA | 265.6 | 14 | 118 | 133 | 153 | 176 |
| SJU | San Juan(Intl) Puerto Rico | 1198.4 | 7 | 7 | 7 | 8 | 9 |
| SLC | Salt Lake City UT USA | 301.2 | 1052 | 1076 | 1170 | 1353 | 1563 |
| SMF | Sacramento(Metro) CA USA | 248.7 | 506 | 517 | 559 | 642 | 736 |
| SPI | Springfield IL USA | 296.5 | 0 | 0 | 0 | 0 | 49 |
| SRQ | Sarasota FL USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| STC | St. Croix VI USA | 315.7 | 1 | 1 | 1 | 1 | 1 |
| STL | St. Louis(Intl) MO USA | 312.7 | 1258 | 1275 | 1342 | 1489 | 1652 |
| STT | St. Thomas VI USA | 1198.4 | 2 | 2 | 2 | 2 | 2 |
| SUX | Sioux City IA USA | 309.9 | 163 | 165 | 171 | 187 | 204 |
| SYR | Syracuse NY USA | 282.9 | 0 | 98 | 106 | 115 | 125 |
| TOL | Toledo OH USA | 322.2 | 113 | 110 | 117 | 126 | 137 |
| TPA | Tampa(Intl) FL USA | 476.5 | 354 | 362 | 391 | 448 | 514 |
| TUL | Tulsa OK USA | 404.3 | 109 | 111 | 117 | 131 | 147 |
| TUS | Tucson AZ USA | 440.9 | 137 | 140 | 154 | 179 | 208 |
| TVC | Traverse City MI USA | 168.4 | 220 | 223 | 236 | 264 | 295 |
| TVF | Thief River Falls MN USA | 0.0 | 0 | 0 | 0 | 0 | 0 |
| TYS | Knoxville TN USA | 330.1 | 69 | 71 | 76 | 87 | 100 |
| WAS | Washington DC USA | 261.3 | 1800 | 1839 | 1997 | 2302 | 2649 |
| XNA | Fayetteville(Regional) AR USA | 340.0 | 138 | 142 | 159 | 191 | 228 |
| | Total | | 66819 | 68190 | 75226 | 85773 | 97694 |

(a) Ratio of annual scheduled seats to AWDPM scheduled seats.

(b) Annual scheduled seats for each market (Table 5.6) multiplied by seasonality ratio.

Sources: As noted and HNTB analysis.

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | | |
|---------------------|--------|------------------|-------|-------|---------------------------|------|------|------|------|--------------------------|------|------|------|------|-----|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 | |
| Allentown | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | 0 |
| ABE | ABE | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Albuquerque | | | | | | | | | | Target Seat Depar | 322 | 367 | 427 | 496 | |
| ABQ | ABQ | DL | E90 | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | 320 | 148 | 2.0 | 1.0 | | 1.0 | | 296 | 148 | 0 | 148 | 0 | 0 |
| ABQ | ABQ | DL | 319 | 124 | | | 3.0 | 1.0 | 3.0 | 0 | 0 | 372 | 124 | 372 | 0 |
| ABQ | ABQ | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | M90 | 160 | | 1.0 | | 1.0 | | 0 | 160 | 0 | 160 | 0 | 0 |
| ABQ | ABQ | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABQ | ABQ | SY | 73G | 129 | | | | 1.0 | | 0 | 0 | 0 | 0 | 0 | 129 |
| Subtotal | | | | | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 | 296 | 308 | 372 | 432 | 501 | |
| Aberdeen | | | | | | | | | | Target Seat Depar | 110 | 120 | 132 | 145 | |
| ABR | ABR | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABR | ABR | DL | CRJ | 50 | | | 1.0 | 2.0 | 3.0 | 0 | 0 | 50 | 100 | 150 | 0 |
| ABR | ABR | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ABR | ABR | DL | SF3 | 34 | 3.0 | 3.0 | 2.0 | 1.0 | | 102 | 102 | 68 | 34 | 0 | 0 |
| Subtotal | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 102 | 102 | 118 | 134 | 150 | |
| Albany | | | | | | | | | | Target Seat Depar | 130 | 143 | 159 | 178 | |
| ALB | ALB | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ALB | ALB | DL | CR9 | 76 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 76 | 76 | 76 | 76 | 0 |
| ALB | ALB | DL | 319 | 124 | | | | 0.2 | 0.6 | 0 | 0 | 0 | 25 | 74 | 0 |
| ALB | ALB | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ALB | ALB | DL | E75 | 76 | 1.0 | 0.7 | 1.0 | 0.8 | 0.4 | 76 | 53 | 76 | 61 | 30 | 0 |
| Subtotal | | | | | 1.0 | 1.7 | 2.0 | 2.0 | 2.0 | 76 | 129 | 152 | 162 | 181 | |
| Waterloo, IA | | | | | | | | | | Target Seat Depar | 124 | 135 | 148 | 162 | |
| ALO | ALO | NW | SF3 | 33 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ALO | ALO | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ALO | ALO | DL | CR9 | 76 | | | | | 0.4 | 0 | 0 | 0 | 0 | 30 | 0 |
| ALO | ALO | DL | CRJ | 50 | | 1.0 | 2.0 | 3.0 | 2.6 | 0 | 50 | 100 | 150 | 130 | 0 |
| ALO | ALO | DL | SF3 | 34 | 3.0 | 2.0 | 1.0 | | | 102 | 68 | 34 | 0 | 0 | 0 |
| Subtotal | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 102 | 118 | 134 | 150 | 160 | |
| Anchorage | | | | | | | | | | Target Seat Depar | 938 | 1042 | 1179 | 1333 | |
| ANC | ANC | NW | 757 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | NW | 753 | 224 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | NW | 332 | 233 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | AS | 738 | 160 | | | 2.0 | 2.0 | 2.0 | 0 | 0 | 320 | 320 | 320 | 0 |
| ANC | ANC | AS | 739 | 172 | | 1.0 | | | | 0 | 172 | 0 | 0 | 0 | 0 |
| ANC | ANC | DL | 757 | 184 | | 1.0 | 1.0 | | | 0 | 184 | 184 | 0 | 0 | 0 |
| ANC | ANC | DL | 753 | 223 | 3.0 | 2.0 | 1.0 | 1.0 | | 669 | 446 | 223 | 223 | 0 | 0 |
| ANC | ANC | DL | 76D | 262 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | DL | 321 | 180 | | | | | 3.0 | 0 | 0 | 0 | 0 | 540 | 0 |
| ANC | ANC | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | DL | 752 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | DL | 738 | 160 | | | 1.0 | 2.0 | 1.0 | 0 | 0 | 160 | 320 | 160 | 0 |
| ANC | ANC | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ANC | ANC | SY | 738 | 162 | 1.0 | | 1.0 | 2.0 | 2.0 | 162 | 0 | 162 | 324 | 324 | 0 |
| ANC | ANC | SY | 73G | 129 | | 1.0 | | | | 0 | 129 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 831 | 931 | 1049 | 1187 | 1344 | |
| Aspen | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| ASE | ASE | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | |
|------------------|--------|-------|---------|-------|-------|---------------------------|------|-----------------|------|-----------------------|--------------------------|-------------|-----------------|-------------|-------------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | 2030 |
| Atlanta | | | | | | | | | | | Target Seat Depar | 2759 | 2966 | 3247 | 3330 |
| ATL | ATL | DL | 757 | 184 | 3.0 | 8.0 | 6.0 | 2.0 | | | 552 | 1472 | 1104 | 368 | 0 |
| ATL | ATL | DL | 763 | 262 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | M88 | 142 | 3.0 | | | | | | 426 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | M90 | 160 | 1.0 | 1.0 | | | | | 160 | 160 | 0 | 0 | 0 |
| ATL | ATL | DL | 738 | 160 | | | 2.0 | 4.0 | 4.0 | | 0 | 0 | 320 | 640 | 640 |
| ATL | ATL | DL | 738 | 160 | 3.0 | | | | | | 480 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 732 | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 320 | 148 | | | 1.0 | | | | 0 | 0 | 148 | 0 | 0 |
| ATL | ATL | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 321 | 180 | | | | 2.0 | 3.0 | | 0 | 0 | 0 | 360 | 540 |
| ATL | ATL | DL | NGD | 225 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 777 | 278 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 278 | 278 |
| ATL | ATL | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 76D | 262 | | | | 1.0 | 2.0 | | 0 | 0 | 0 | 262 | 524 |
| ATL | ATL | DL | 752 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | DL | 753 | 223 | 1.0 | 2.0 | 3.0 | 2.0 | 2.0 | | 223 | 446 | 669 | 446 | 446 |
| ATL | ATL | DL | 73W | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATL | ATL | FL | 73G | 137 | 3.0 | | | | | | 411 | 0 | 0 | 0 | 0 |
| ATL | ATL | FL | 717 | 117 | 1.0 | | | | | | 117 | 0 | 0 | 0 | 0 |
| ATL | ATL | WN | 73G | 137 | | 5.0 | 4.0 | 4.0 | 4.0 | | 0 | 685 | 548 | 548 | 548 |
| ATL | ATL | WN | 738 | 175 | | | 1.0 | 2.0 | 2.0 | | 0 | 0 | 175 | 350 | 350 |
| Subtotal | | | | | | 15.0 | 16.0 | 17.0 | 18.0 | 18.0 | 2369 | 2763 | 2964 | 3252 | 3326 |
| Appleton | | | | | | | | | | | Target Seat Depar | 275 | 305 | 345 | 391 |
| ATW | ATW | DL | CR7 | 70 | | | | 2.0 | 2.0 | | 0 | 0 | 0 | 140 | 140 |
| ATW | ATW | DL | CRJ | 50 | 3.0 | 4.0 | 3.0 | 1.0 | 2.0 | | 150 | 200 | 150 | 50 | 100 |
| ATW | ATW | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATW | ATW | DL | SF3 | 34 | 2.0 | | | | | | 68 | 0 | 0 | 0 | 0 |
| ATW | ATW | DL | CR9 | 76 | 1.0 | 1.0 | 2.0 | 2.0 | 2.0 | | 76 | 76 | 152 | 152 | 152 |
| Subtotal | | | | | | 6.0 | 5.0 | 5.0 | 5.0 | 6.0 | 294 | 276 | 302 | 342 | 392 |
| Watertown | | | | | | | | | | | Target Seat Depar | 76 | 83 | 92 | 103 |
| ATY | ATY | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ATY | ATY | DL | CRJ | 50 | | | 1.0 | 1.9 | 2.1 | | 0 | 0 | 50 | 95 | 105 |
| ATY | ATY | DL | SF3 | 34 | 2.0 | 2.0 | 1.0 | | | | 68 | 68 | 34 | 0 | 0 |
| Subtotal | | | | | | 2.0 | 2.0 | 2.0 | 1.9 | 2.1 | 68 | 68 | 84 | 95 | 105 |
| Austin | | | | | | | | | | | Target Seat Depar | 228 | 266 | 319 | 382 |
| AUS | AUS | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | CR9 | 76 | 3.0 | 1.0 | 2.0 | 2.0 | 1.0 | | 228 | 76 | 152 | 152 | 76 |
| AUS | AUS | DL | 319 | 124 | | | 1.0 | | | | 0 | 0 | 124 | 0 | 0 |
| AUS | AUS | DL | 320 | 148 | | 1.0 | | | 1.0 | | 0 | 148 | 0 | 0 | 148 |
| AUS | AUS | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | M90 | 160 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 160 | 160 |
| AUS | AUS | DL | NGB | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AUS | AUS | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 3.0 | 2.0 | 3.0 | 3.0 | 3.0 | 228 | 224 | 276 | 312 | 384 |
| Asheville | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| AVL | AVL | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| AVL | AVL | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Kalamazoo | | | | | | | | | | | Target Seat Depar | 87 | 95 | 105 | 116 |
| AZO | AZO | DL | CR7 | 70 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 70 |
| AZO | AZO | DL | CRJ | 50 | 1.0 | 1.7 | 2.0 | 2.0 | 1.0 | | 50 | 85 | 100 | 100 | 50 |
| AZO | AZO | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------|--------|---------------|-------|----------|---------------------------|------|------|------|------|--------------------------|------------|------------|------------|------------|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| | | | | Subtotal | 1.0 | 1.7 | 2.0 | 2.0 | 2.0 | 50 | 85 | 100 | 100 | 120 |
| Hartford | | | | | | | | | | Target Seat Depar | 441 | 500 | 578 | 667 |
| BDL | BDL | DL | E75 | 76 | | | 1.0 | | | 0 | 0 | 76 | 0 | 0 |
| BDL | BDL | DL | 320 | 148 | 1.0 | | 1.0 | | | 148 | 0 | 148 | 0 | 0 |
| BDL | BDL | DL | 319 | 124 | 1.0 | 1.0 | 1.0 | 2.0 | 3.0 | 124 | 124 | 124 | 248 | 372 |
| BDL | BDL | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | M90 | 160 | | 2.0 | 1.0 | 2.0 | 1.0 | 0 | 320 | 160 | 320 | 160 |
| BDL | BDL | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | 752 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | CR9 | 76 | 2.0 | | | | | 152 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BDL | BDL | SY | 73G | 129 | | | | | 1.0 | 0 | 0 | 0 | 0 | 129 |
| | | | | Subtotal | 4.0 | 3.0 | 4.0 | 4.0 | 5.0 | 424 | 444 | 508 | 568 | 661 |
| Bangor | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| BGR | BGR | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BGR | BGR | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Birmingham | | | | | | | | | | Target Seat Depar | 73 | 82 | 93 | 105 |
| BHM | BHM | DL | CRJ | 50 | 1.0 | | | | | 50 | 0 | 0 | 0 | 0 |
| BHM | BHM | DL | 319 | 124 | | | | 0.4 | 0.6 | 0 | 0 | 0 | 50 | 74 |
| BHM | BHM | DL | CR9 | 76 | | 1.0 | 1.0 | 0.6 | 0.4 | 0 | 76 | 76 | 46 | 30 |
| BHM | BHM | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 50 | 76 | 76 | 95 | 105 |
| Billings | | | | | | | | | | Target Seat Depar | 334 | 372 | 423 | 479 |
| BIL | BIL | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIL | BIL | DL | 319 | 124 | 1.0 | 2.0 | 1.0 | 1.0 | | 124 | 248 | 124 | 124 | 0 |
| BIL | BIL | DL | M80 | 149 | | | | 1.0 | | 0 | 0 | 0 | 149 | 0 |
| BIL | BIL | DL | M90 | 160 | | | 1.0 | | 1.0 | 0 | 0 | 160 | 0 | 160 |
| BIL | BIL | DL | CR9 | 76 | | | | 1.0 | | 0 | 0 | 0 | 76 | 76 |
| BIL | BIL | DL | 738 | 160 | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| BIL | BIL | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIL | BIL | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIL | BIL | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIL | BIL | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIL | BIL | DL | E75 | 76 | 3.0 | 1.0 | 1.0 | 1.0 | 1.0 | 228 | 76 | 76 | 76 | 76 |
| BIL | BIL | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | 4.0 | 3.0 | 3.0 | 4.0 | 4.0 | 352 | 324 | 360 | 425 | 472 |
| Bismark | | | | | | | | | | Target Seat Depar | 521 | 574 | 644 | 721 |
| BIS | BIS | DL | 320 | 148 | | | 1.0 | | | 0 | 0 | 148 | 0 | 0 |
| BIS | BIS | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIS | BIS | DL | 319 | 124 | | 1.0 | 1.0 | | 2.0 | 0 | 124 | 124 | 124 | 248 |
| BIS | BIS | DL | M80 | 149 | | 2.0 | | | | 0 | 298 | 0 | 0 | 0 |
| BIS | BIS | DL | M90 | 160 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 160 | 160 | 160 |
| BIS | BIS | DL | CR9 | 76 | 1.0 | | | 3.0 | 3.0 | 76 | 0 | 0 | 228 | 228 |
| BIS | BIS | DL | CRJ | 50 | 5.0 | 2.0 | 3.0 | 1.0 | | 250 | 100 | 150 | 50 | 0 |
| BIS | BIS | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIS | BIS | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BIS | BIS | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 |
| BIS | BIS | DL | E75 | 76 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 76 | 76 |
| BIS | BIS | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | 7.0 | 5.0 | 6.0 | 7.0 | 7.0 | 451 | 522 | 582 | 638 | 712 |
| Bemidji | | | | | | | | | | Target Seat Depar | 157 | 176 | 201 | 229 |
| BJI | BJI | CH | BEC | 8 | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 | 8 | 6 | 6 | 6 | 6 |
| BJI | BJI | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BJI | BJI | DL | CR7 | 70 | | | 1.0 | | 1.0 | 0 | 0 | 70 | 0 | 70 |
| BJI | BJI | DL | CRJ | 50 | 1.0 | 3.0 | 2.0 | 4.0 | 3.0 | 50 | 150 | 100 | 200 | 150 |
| BJI | BJI | DL | SF3 | 34 | 3.0 | | | | | 102 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | 5.0 | 3.7 | 3.7 | 4.7 | 4.7 | 160 | 156 | 176 | 206 | 226 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|---------------------|--------|----------|---------|-------|-------|---------------------------|------|------|------|------|--------------------------|------------|------------|------------|------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| MDW | CHI | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MDW | CHI | DL | M90 | 160 | | | | 3.0 | 6.0 | | 0 | 0 | 0 | 480 | 960 |
| MDW | CHI | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MDW | CHI | DL | E75 | 76 | 7.0 | 5.0 | 4.0 | 3.0 | 1.0 | | 532 | 380 | 304 | 228 | 76 |
| MDW | CHI | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MDW | CHI | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MDW | CHI | DL | CR9 | 76 | 1.0 | | | | | | 76 | 0 | 0 | 0 | 0 |
| MDW | CHI | WN | 73G | 137 | 4.0 | 3.0 | 8.0 | 10.0 | 11.0 | | 548 | 411 | 1096 | 1370 | 1507 |
| MDW | CHI | WN | 717 | 122 | | 2.0 | 2.0 | | | | 0 | 244 | 244 | 0 | 0 |
| MDW | CHI | WN | 733 | 137 | 4.0 | 4.0 | | | | | 548 | 548 | 0 | 0 | 0 |
| MDW | CHI | WN | 735 | 122 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | AA | M80 | 140 | 2.0 | 2.0 | 2.0 | 1.0 | | | 280 | 280 | 280 | 140 | 0 |
| ORD | CHI | AA | M83 | 140 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | AA | 738 | 160 | 2.0 | 3.0 | 3.0 | 5.0 | 8.0 | | 320 | 480 | 480 | 800 | 1280 |
| ORD | CHI | AA | 100 | 87 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | AA | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | AA | CR7 | 70 | 4.0 | 3.0 | 3.0 | 3.0 | 2.0 | | 280 | 210 | 210 | 210 | 140 |
| ORD | CHI | AA | ERD | 44 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | E75 | 76 | 4.0 | 1.0 | 1.0 | | | | 304 | 76 | 76 | 0 | 0 |
| ORD | CHI | DL | M80 | 149 | | 2.0 | 1.0 | | | | 0 | 298 | 149 | 0 | 0 |
| ORD | CHI | DL | 320 | 148 | 1.0 | 3.0 | 3.0 | 1.0 | 1.0 | | 148 | 444 | 444 | 148 | 148 |
| ORD | CHI | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | 738 | 160 | | 1.0 | 2.0 | 7.0 | 9.0 | | 0 | 160 | 320 | 1120 | 1440 |
| ORD | CHI | DL | M90 | 160 | | 2.0 | 2.0 | 2.0 | 1.0 | | 0 | 320 | 320 | 320 | 160 |
| ORD | CHI | DL | NGB | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | D95 | 125 | 2.0 | | | | | | 250 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | CR9 | 76 | 2.0 | | 1.0 | | | | 152 | 0 | 76 | 0 | 0 |
| ORD | CHI | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | DL | D94 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | UA | 733 | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | UA | 320 | 144 | 4.0 | 4.0 | 4.0 | 7.0 | 6.0 | | 576 | 576 | 576 | 1008 | 864 |
| ORD | CHI | UA | 735 | 104 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | UA | 319 | 120 | 2.0 | 1.0 | 2.0 | | 1.0 | | 240 | 120 | 240 | 0 | 120 |
| ORD | CHI | UA | 738 | 160 | | 4.0 | 4.0 | 4.0 | 5.0 | | 0 | 640 | 640 | 640 | 800 |
| ORD | CHI | UA | 752 | 182 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| ORD | CHI | UA | E70 | 70 | 6.0 | 3.0 | 2.0 | 2.0 | 1.0 | | 420 | 210 | 140 | 140 | 70 |
| | | Subtotal | | | 45.0 | 46.0 | 48.0 | 50.0 | 53.0 | | 4674 | 5844 | 6189 | 6900 | 7713 |
| Charleston | | | | | | | | | | | Target Seat Depar | 103 | 118 | 138 | 161 |
| CHS | CHS | DL | 320 | 148 | | | | 0.7 | | | 0 | 0 | 0 | 104 | 0 |
| CHS | CHS | DL | 319 | 124 | | 0.8 | 1.0 | 0.3 | | | 0 | 99 | 124 | 37 | 0 |
| CHS | CHS | DL | M90 | 160 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| CHS | CHS | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CHS | CHS | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 0.0 | 0.8 | 1.0 | 1.0 | 1.0 | | 0 | 99 | 124 | 141 | 160 |
| Cedar Rapids | | | | | | | | | | | Target Seat Depar | 311 | 341 | 381 | 424 |
| CID | CID | DL | CR7 | 70 | | 3.0 | 2.0 | | | | 0 | 210 | 140 | 0 | 0 |
| CID | CID | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CID | CID | DL | CRJ | 50 | 4.0 | 2.0 | 1.0 | 3.0 | 1.0 | | 200 | 100 | 50 | 150 | 50 |
| CID | CID | DL | SF3 | 34 | 1.0 | | | | | | 34 | 0 | 0 | 0 | 0 |
| CID | CID | DL | E75 | 76 | | | 2.0 | 3.0 | 5.0 | | 0 | 0 | 152 | 228 | 380 |
| CID | CID | SY | 738 | 168 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 5.0 | 5.0 | 5.0 | 6.0 | 6.0 | | 234 | 310 | 342 | 378 | 430 |
| Cleveland | | | | | | | | | | | Target Seat Depar | 469 | 506 | 553 | 603 |
| CLE | CLE | CO | 733 | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | 73G | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | ERJ | 37 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | ERJ | 50 | 4.0 | | | | | | 200 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | ER3 | 37 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | CO | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | UA | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | UA | ER4 | 50 | | 4.0 | 4.0 | 4.0 | 4.0 | | 0 | 200 | 200 | 200 | 200 |
| CLE | CLE | UA | 73G | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CLE | CLE | DL | E75 | 76 | | 3.0 | 2.0 | 4.0 | 4.0 | | 0 | 228 | 152 | 304 | 304 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------------|--------|----------|---------|-------|-------|---------------------------|------|------|------|--------------------------|-----------------------|------------|-------------|-------------|------|
| | | | | | | EA Analysis Pd. | | | | 2030 | EA Analysis Pd. | | | | 2030 |
| | | | | | | 2010 | 2016 | 2020 | 2025 | | 2010 | 2016 | 2020 | 2025 | |
| CLE | CLE | DL | CRJ | 50 | 3.0 | 1.0 | 3.0 | 1.0 | 2.0 | 150 | 50 | 150 | 50 | 100 | |
| CLE | CLE | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLE | CLE | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLE | CLE | DL | ER4 | 50 | 1.0 | | | | | 50 | 0 | 0 | 0 | 0 | |
| CLE | CLE | DL | CR7 | 70 | 1.0 | | | | | 70 | 0 | 0 | 0 | 0 | |
| CLE | CLE | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 9.0 | 8.0 | 9.0 | 9.0 | 10.0 | 470 | 478 | 502 | 554 | 604 | |
| Charlotte | | | | | | | | | | Target Seat Depar | 825 | 948 | 1116 | 1309 | |
| CLT | CLT | US | 733 | 126 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | 320 | 150 | 2.0 | 1.0 | 1.0 | 2.0 | 2.0 | 300 | 150 | 150 | 300 | 300 | |
| CLT | CLT | US | 319 | 120 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 240 | 240 | 240 | 360 | 360 | |
| CLT | CLT | US | E90 | 100 | | | 2.0 | | 1.0 | 0 | 0 | 200 | 0 | 100 | |
| CLT | CLT | US | 734 | 144 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | 32S | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | E75 | 76 | | 1.0 | | | | 0 | 76 | 0 | 0 | 0 | |
| CLT | CLT | US | E70 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | E70 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | US | 321 | 183 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | E75 | 76 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 152 | 152 | 152 | 152 | 76 | |
| CLT | CLT | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | 319 | 124 | 2.0 | 1.0 | 1.0 | | | 248 | 124 | 124 | 0 | 0 | |
| CLT | CLT | DL | 320 | 148 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 148 | 148 | |
| CLT | CLT | DL | 738 | 160 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 160 | 320 | |
| CLT | CLT | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CLT | CLT | DL | CR9 | 76 | | 1.0 | 1.0 | | | 0 | 76 | 76 | 0 | 0 | |
| CLT | CLT | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 8.0 | 8.0 | 9.0 | 9.0 | 10.0 | 940 | 818 | 942 | 1120 | 1304 | |
| Columbus | | | | | | | | | | Target Seat Depar | 398 | 440 | 495 | 556 | |
| CMH | CMH | DL | CRJ | 50 | 1.0 | 1.0 | 2.0 | | | 50 | 50 | 100 | 0 | 0 | |
| CMH | CMH | DL | E75 | 76 | 2.0 | 1.0 | 1.0 | 3.0 | 3.0 | 152 | 76 | 76 | 228 | 228 | |
| CMH | CMH | DL | 319 | 124 | | 1.0 | 1.0 | 1.0 | | 0 | 124 | 124 | 124 | 0 | |
| CMH | CMH | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CMH | CMH | DL | M80 | 149 | | 1.0 | 1.0 | | | 0 | 149 | 149 | 0 | 0 | |
| CMH | CMH | DL | 320 | 148 | | | | 1.0 | | 0 | 0 | 0 | 148 | 0 | |
| CMH | CMH | DL | 738 | 160 | | | | | 2.0 | 0 | 0 | 0 | 0 | 320 | |
| CMH | CMH | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 | |
| CMH | CMH | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CMH | CMH | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CMH | CMH | DL | CR9 | 76 | 1.0 | | | | | 76 | 0 | 0 | 0 | 0 | |
| CMH | CMH | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CMH | CMH | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| LCK | CMH | NW | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 5.0 | 4.0 | 5.0 | 5.0 | 5.0 | 403 | 399 | 449 | 500 | 548 | |
| Champaign | | | | | | | | | | Target Seat Depar | 49 | 54 | 59 | 66 | |
| CMI | CMI | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| CMI | CMI | DL | CRJ | 50 | | 1.0 | 1.0 | 0.6 | 0.3 | 0 | 50 | 50 | 30 | 15 | |
| CMI | CMI | DL | CR9 | 76 | | | | 0.4 | 0.7 | 0 | 0 | 0 | 30 | 53 | |
| | | Subtotal | | | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 50 | 50 | 60 | 68 | |
| Hancock | | | | | | | | | | Target Seat Depar | 57 | 60 | 64 | 68 | |
| CMX | CMX | DL | CR9 | 76 | | | | | 0.7 | 0 | 0 | 0 | 0 | 53 | |
| CMX | CMX | DL | SF3 | 34 | | 2.0 | 2.0 | 2.0 | | 0 | 68 | 68 | 68 | 0 | |
| CMX | CMX | DL | CRJ | 50 | | | | | 0.3 | 0 | 0 | 0 | 0 | 15 | |
| | | Subtotal | | | 0.0 | 2.0 | 2.0 | 2.0 | 1.0 | 0 | 68 | 68 | 68 | 68 | |
| Colorado Springs | | | | | | | | | | Target Seat Depar | 175 | 196 | 224 | 255 | |
| COS | COS | DL | 319 | 124 | | | | | 1.0 | 0 | 0 | 0 | 0 | 124 | |
| COS | COS | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| COS | COS | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------|--------|-------|---------|-------|-------|---------------------------|------|------|------|--------------------------|-----------------------|------|------|------|------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| COS | COS | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| COS | COS | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| COS | COS | DL | CRJ | 50 | 1.0 | 2.0 | 1.0 | | 1.0 | | 50 | 100 | 50 | 0 | 50 |
| COS | COS | DL | CR9 | 76 | 1.0 | 1.0 | 2.0 | 3.0 | 1.0 | | 76 | 76 | 152 | 228 | 76 |
| Subtotal | | | | | 2.0 | 3.0 | 3.0 | 3.0 | 3.0 | | 126 | 176 | 202 | 228 | 250 |
| Casper | | | | | | | | | | Target Seat Depar | 198 | 219 | 246 | 277 | |
| CPR | CPR | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CPR | CPR | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CPR | CPR | DL | 319 | 124 | | | 1.0 | | 1.0 | | 0 | 0 | 0 | 124 | 124 |
| CPR | CPR | DL | CRJ | 50 | | 1.0 | | 1.0 | | | 0 | 50 | 0 | 50 | 0 |
| CPR | CPR | DL | E75 | 76 | | 2.0 | 3.0 | 1.0 | 2.0 | | 0 | 152 | 228 | 76 | 152 |
| Subtotal | | | | | 0.0 | 3.0 | 3.0 | 3.0 | 3.0 | | 0 | 202 | 228 | 250 | 276 |
| Cincinnati | | | | | | | | | | Target Seat Depar | 309 | 378 | 469 | 628 | |
| CVG | CVG | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | 738 | 160 | | | 1.0 | | 2.0 | | 0 | 0 | 0 | 160 | 320 |
| CVG | CVG | DL | 732 | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | CRJ | 50 | 4.0 | 3.0 | | | | | 200 | 150 | 0 | 0 | 0 |
| CVG | CVG | DL | CR7 | 70 | 2.0 | | | | | | 140 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | CR2 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | ERJ | 37 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | ER3 | 37 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | NGB | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | D9S | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CVG | CVG | DL | E75 | 76 | | 2.0 | 5.0 | 4.0 | 4.0 | | 0 | 152 | 380 | 304 | 304 |
| Subtotal | | | | | 6.0 | 5.0 | 5.0 | 5.0 | 6.0 | | 340 | 302 | 380 | 464 | 624 |
| Wausau | | | | | | | | | | Target Seat Depar | 203 | 222 | 247 | 275 | |
| CWA | CWA | NW | SF3 | 33 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CWA | CWA | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CWA | CWA | NW | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CWA | CWA | DL | SF3 | 34 | 4.0 | 3.0 | 2.0 | | | | 136 | 102 | 68 | 0 | 0 |
| CWA | CWA | DL | CRJ | 50 | 1.0 | 2.0 | 3.0 | 5.0 | 4.0 | | 50 | 100 | 150 | 250 | 200 |
| CWA | CWA | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CWA | CWA | DL | CR9 | 76 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 76 |
| CWA | CWA | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| CWA | CWA | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | | 186 | 202 | 218 | 250 | 276 |
| Dayton | | | | | | | | | | Target Seat Depar | 143 | 155 | 169 | 184 | |
| DAY | DAY | DL | CRJ | 50 | 3.0 | | 2.0 | | 2.0 | | 150 | 0 | 0 | 100 | 100 |
| DAY | DAY | DL | CR9 | 76 | | 2.0 | 2.0 | 1.0 | 1.0 | | 0 | 152 | 152 | 76 | 76 |
| DAY | DAY | DL | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DAY | DAY | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DAY | DAY | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 3.0 | 2.0 | 2.0 | 3.0 | 3.0 | | 150 | 152 | 152 | 176 | 176 |
| Dubuque | | | | | | | | | | Target Seat Depar | 84 | 91 | 100 | 111 | |
| DBQ | DBQ | NW | SF3 | 33 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DBQ | DBQ | DL | SF3 | 34 | | 1.0 | | | | | 0 | 34 | 0 | 0 | 0 |
| DBQ | DBQ | DL | CRJ | 50 | | 1.0 | 1.8 | 2.0 | 2.2 | | 0 | 50 | 90 | 100 | 110 |
| DBQ | DBQ | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DBQ | DBQ | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 2.0 | 1.8 | 2.0 | 2.2 | | 0 | 84 | 90 | 100 | 110 |
| Denver | | | | | | | | | | Target Seat Depar | 3573 | 4037 | 4667 | 5395 | |
| DEN | DEN | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | 320 | 148 | | 1.0 | 1.0 | | 1.0 | | 0 | 148 | 148 | 0 | 148 |
| DEN | DEN | DL | 319 | 124 | | 1.0 | 1.0 | | | | 0 | 124 | 124 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|--------------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| DEN | DEN | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | 738 | 160 | 2.0 | 1.0 | 4.0 | 6.0 | 4.0 | | 320 | 160 | 640 | 960 | 640 |
| DEN | DEN | DL | 753 | 223 | | | | 1.0 | 3.0 | | 0 | 0 | 0 | 223 | 669 |
| DEN | DEN | DL | NGB | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | NGD | 225 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | 757 | 184 | 1.0 | 1.0 | | | | | 184 | 184 | 0 | 0 | 0 |
| DEN | DEN | DL | M90 | 160 | 5.0 | 3.0 | 2.0 | 1.0 | | | 800 | 480 | 320 | 160 | 0 |
| DEN | DEN | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | SY | 738 | 162 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 162 |
| DEN | DEN | UA | 733 | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | 320 | 144 | 3.0 | 2.0 | 3.0 | 3.0 | 3.0 | | 432 | 288 | 432 | 432 | 432 |
| DEN | DEN | UA | 735 | 104 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | 319 | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | 738 | 160 | | 3.0 | 4.0 | 6.0 | 7.0 | | 0 | 480 | 640 | 960 | 1120 |
| DEN | DEN | UA | 752 | 182 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | CR7 | 64 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | UA | E70 | 70 | 2.0 | 2.0 | 1.0 | | | | 140 | 140 | 70 | 0 | 0 |
| DEN | DEN | WN | 73G | 137 | 1.0 | 3.0 | 6.0 | 7.0 | 8.0 | | 137 | 411 | 822 | 959 | 1096 |
| DEN | DEN | WN | 733 | 137 | 2.0 | 3.0 | | | | | 274 | 411 | 0 | 0 | 0 |
| DEN | DEN | WN | 735 | 122 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 73S | 138 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 737 | 138 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 73A | 138 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 733 | 138 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 319 | 132 | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | | 396 | 264 | 264 | 264 | 264 |
| DEN | DEN | F9 | CS3 | 130 | | | 2.0 | 3.0 | 3.0 | | 0 | 0 | 260 | 390 | 390 |
| DEN | DEN | F9 | 318 | 114 | 1.0 | | | | | | 114 | 0 | 0 | 0 | 0 |
| DEN | DEN | F9 | 320 | 162 | | 3.0 | 2.0 | 2.0 | 3.0 | | 0 | 486 | 324 | 324 | 486 |
| DEN | DEN | F9 | E90 | 99 | 1.0 | | | | | | 99 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 21.0 | 25.0 | 28.0 | 31.0 | 35.0 | | 2896 | 3576 | 4044 | 4672 | 5407 |
| Dallas/Fort Worth | | | | | | | | | | | Target Seat Depar | 1663 | 1900 | 2221 | 2588 |
| DFW | DFW | AA | M80 | 140 | 3.0 | 5.0 | 5.0 | 3.0 | | | 420 | 700 | 700 | 420 | 0 |
| DFW | DFW | AA | 738 | 160 | 1.0 | 1.0 | 2.0 | 4.0 | 8.0 | | 160 | 160 | 320 | 640 | 1280 |
| DFW | DFW | AA | 100 | 87 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | AA | M83 | 140 | 2.0 | | | | | | 280 | 0 | 0 | 0 | 0 |
| DFW | DFW | AA | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | AA | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | AA | ERD | 44 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | CR9 | 76 | 2.0 | 1.0 | 1.0 | 1.0 | | | 152 | 76 | 76 | 76 | 0 |
| DFW | DFW | DL | M80 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | M90 | 160 | | | 1.0 | 1.0 | 1.0 | | 0 | 0 | 160 | 160 | 160 |
| DFW | DFW | DL | 320 | 148 | | 2.0 | | | 1.0 | | 0 | 296 | 0 | 0 | 148 |
| DFW | DFW | DL | 319 | 124 | 1.0 | 1.0 | | 1.0 | 1.0 | | 124 | 124 | 0 | 124 | 124 |
| DFW | DFW | DL | 738 | 160 | | | 2.0 | 2.0 | 3.0 | | 0 | 0 | 320 | 320 | 480 |
| DFW | DFW | DL | NGB | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | DL | E75 | 76 | 3.0 | 2.0 | 2.0 | 2.0 | 1.0 | | 228 | 152 | 152 | 152 | 76 |
| DFW | DFW | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DFW | DFW | SY | 738 | 162 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | | 162 | 162 | 162 | 324 | 324 |
| | | | Subtotal | | 13.0 | 13.0 | 14.0 | 16.0 | 17.0 | | 1526 | 1670 | 1890 | 2216 | 2592 |
| Duluth | | | | | | | | | | | Target Seat Depar | 415 | 447 | 486 | 530 |
| DLH | DLH | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DLH | DLH | DL | M80 | 149 | | | 1.0 | | | | 0 | 0 | 149 | 0 | 0 |
| DLH | DLH | DL | 319 | 124 | | 1.0 | | | 1.0 | | 0 | 124 | 0 | 0 | 124 |
| DLH | DLH | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| DLH | DLH | DL | 738 | 160 | | | | | 1.0 | | 0 | 0 | 0 | 160 | 160 |
| DLH | DLH | DL | CR9 | 76 | | | 1.0 | 2.0 | 2.0 | | 0 | 0 | 76 | 152 | 152 |
| DLH | DLH | DL | CR7 | 70 | | 1.0 | | | | | 0 | 70 | 0 | 0 | 0 |
| DLH | DLH | DL | NGT | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|--------------------------|-----------------------|------|------|------|------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| DLH | DLH | DL | CRJ | 50 | 7.0 | 3.0 | 3.0 | 2.0 | 2.0 | 350 | 150 | 150 | 100 | 100 | |
| DLH | DLH | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DLH | DLH | DL | SF3 | 34 | 1.0 | | | | | 34 | 0 | 0 | 0 | 0 | |
| DLH | DLH | DL | E75 | 76 | | 1.0 | 1.0 | 1.0 | | 0 | 76 | 76 | 76 | 0 | |
| DLH | DLH | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 8.0 | 6.0 | 6.0 | 6.0 | 6.0 | 384 | 420 | 451 | 488 | 536 | |
| Durango | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| DRO | DRO | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DRO | DRO | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DRO | DRO | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| Des Moines | | | | | | | | | | Target Seat Depar | 401 | 447 | 507 | 576 | |
| DSM | DSM | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DSM | DSM | DL | 319 | 124 | | | 1.0 | 1.0 | | 0 | 0 | 0 | 124 | 124 | |
| DSM | DSM | DL | CR9 | 76 | 3.0 | 4.0 | 6.0 | 5.0 | 6.0 | 228 | 304 | 456 | 380 | 456 | |
| DSM | DSM | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DSM | DSM | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DSM | DSM | DL | CRJ | 50 | 3.0 | 2.0 | | | | 150 | 100 | 0 | 0 | 0 | |
| DSM | DSM | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DSM | DSM | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 6.0 | 6.0 | 6.0 | 6.0 | 7.0 | 378 | 404 | 456 | 504 | 580 | |
| Detroit | | | | | | | | | | Target Seat Depar | 1594 | 1732 | 1906 | 2098 | |
| DTW | DTW | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 757 | 184 | 5.0 | 2.0 | 1.0 | 1.0 | | 920 | 368 | 184 | 184 | 0 | |
| DTW | DTW | DL | 320 | 148 | | | 1.0 | | | 0 | 0 | 148 | 0 | 0 | |
| DTW | DTW | DL | 319 | 124 | 1.0 | 1.0 | | | 1.0 | 124 | 124 | 0 | 0 | 124 | |
| DTW | DTW | DL | 753 | 223 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 223 | 446 | 446 | 446 | 446 | |
| DTW | DTW | DL | 332 | 243 | | | | | 1.0 | 0 | 0 | 0 | 0 | 243 | |
| DTW | DTW | DL | 763 | 262 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | M80 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 738 | 160 | | 4.0 | 6.0 | 8.0 | 8.0 | 0 | 640 | 960 | 1280 | 1280 | |
| DTW | DTW | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 744 | 403 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 752 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 333 | 298 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | CR9 | 76 | 1.0 | | | | | 76 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| DTW | DTW | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 9.0 | 9.0 | 10.0 | 11.0 | 12.0 | 1468 | 1578 | 1738 | 1910 | 2093 | |
| Eau Claire | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| EAU | EAU | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| EAU | EAU | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| EAU | EAU | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| EAU | EAU | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| Vail | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| EGE | EGE | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| EGE | EGE | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| El Paso | | | | | | | | | | Target Seat Depar | 132 | 150 | 175 | 205 | |
| ELP | ELP | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| ELP | ELP | DL | 319 | 124 | | | 0.4 | 1.0 | | 0 | 0 | 0 | 50 | 124 | |
| ELP | ELP | DL | E75 | 76 | | 1.7 | 2.0 | 1.6 | 1.0 | 0 | 129 | 152 | 122 | 76 | |
| ELP | ELP | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| ELP | ELP | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 1.7 | 2.0 | 2.0 | 2.0 | 0 | 129 | 152 | 171 | 200 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|------------------------|--------|---------------|-------|-------|---------------------------|------|------|------|------|--------------------------|------------|------------|------------|------------|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Fairbanks | | | | | | | | | | Target Seat Depar | 367 | 400 | 443 | 489 |
| FAI | FAI | DL | 757 | 184 | 2.0 | 2.0 | 2.0 | | | 368 | 368 | 368 | 0 | 0 |
| FAI | FAI | DL | 753 | 223 | | | | 1.0 | | 0 | 0 | 0 | 223 | 0 |
| FAI | FAI | DL | 738 | 160 | | | | 1.0 | | 0 | 0 | 0 | 160 | 0 |
| FAI | FAI | DL | 321 | 180 | | | | | 2.0 | 0 | 0 | 0 | 0 | 360 |
| FAI | FAI | SY | 738 | 162 | | | | | 0.8 | 0 | 0 | 32 | 65 | 130 |
| | | Subtotal | | | 2.0 | 2.0 | 2.2 | 2.4 | 2.8 | 368 | 368 | 400 | 448 | 490 |
| Fargo | | | | | | | | | | Target Seat Depar | 607 | 673 | 760 | 858 |
| FAR | FAR | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | CR9 | 76 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 76 | 152 | 76 | 76 | 76 |
| FAR | FAR | DL | E75 | 76 | 3.0 | 2.0 | 2.0 | 1.0 | 1.0 | 228 | 152 | 152 | 76 | 76 |
| FAR | FAR | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | 738 | 160 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 160 | 320 |
| FAR | FAR | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | M80 | 149 | | 2.0 | 1.0 | | | 0 | 298 | 149 | 0 | 0 |
| FAR | FAR | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | 320 | 148 | 1.0 | | 2.0 | 3.0 | 1.0 | 148 | 0 | 296 | 444 | 148 |
| FAR | FAR | DL | 319 | 124 | | | | | 2.0 | 0 | 0 | 0 | 0 | 248 |
| FAR | FAR | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAR | FAR | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 7.0 | 6.0 | 6.0 | 6.0 | 7.0 | 552 | 602 | 673 | 756 | 868 |
| Fresno | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 164 |
| FAT | FAT | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAT | FAT | DL | 738 | 160 | | | | | 1.0 | 0 | 0 | 0 | 0 | 160 |
| FAT | FAT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FAT | FAT | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0 | 0 | 0 | 0 | 160 |
| Kalispell | | | | | | | | | | Target Seat Depar | 289 | 336 | 402 | 480 |
| FCA | FCA | DL | E75 | 76 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 76 | 76 | 76 |
| FCA | FCA | DL | 319 | 124 | 2.0 | 1.0 | 2.0 | | 2.0 | 248 | 124 | 248 | 0 | 248 |
| FCA | FCA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FCA | FCA | DL | M90 | 160 | | 1.0 | | 2.0 | 1.0 | 0 | 160 | 0 | 320 | 160 |
| FCA | FCA | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FCA | FCA | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 2.0 | 2.0 | 3.0 | 3.0 | 4.0 | 248 | 284 | 324 | 396 | 484 |
| Fort Lauderdale | | | | | | | | | | Target Seat Depar | 180 | 204 | 235 | 271 |
| FLL | FLL | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | DL | 320 | 148 | 1.0 | | | | 1.0 | 148 | 0 | 0 | 0 | 148 |
| FLL | FLL | DL | 319 | 124 | | | | 2.0 | 1.0 | 0 | 0 | 0 | 248 | 124 |
| FLL | FLL | DL | 757 | 184 | | 1.0 | 1.1 | | | 0 | 184 | 202 | 0 | 0 |
| FLL | FLL | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | DL | 321 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FLL | FLL | WN | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 1.0 | 1.0 | 1.1 | 2.0 | 2.0 | 148 | 184 | 202 | 248 | 272 |
| Fort Collins | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| FNL | FNL | SY | 738 | 162 | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Flint | | | | | | | | | | Target Seat Depar | 82 | 87 | 94 | 101 |
| FNT | FNT | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FNT | FNT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| FNT | FNT | DL | CRJ | 50 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 50 | 100 | 100 | 100 | 100 |
| | | Subtotal | | | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 50 | 100 | 100 | 100 | 100 |
| Fort Dodge | | | | | | | | | | Target Seat Depar | 42 | 45 | 49 | 53 |
| FOD | FOD | DL | CRJ | 50 | | | | | 1.0 | 0 | 0 | 0 | 0 | 50 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|--------------------------|-----------------------|------------|------------|------------|------|
| | | | | | | EA Analysis Pd. | | | | 2030 | EA Analysis Pd. | | | | 2030 |
| | | | | | | 2010 | 2016 | 2020 | 2025 | | 2010 | 2016 | 2020 | 2025 | |
| FOD | FOD | DL | SF3 | 34 | 2.0 | 1.3 | 1.3 | 1.4 | | 68 | 44 | 44 | 48 | 0 | |
| FOD | FOD | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 2.0 | 1.3 | 1.3 | 1.4 | 1.0 | 68 | 44 | 44 | 48 | 50 | |
| Sioux Falls | | | | | | | | | | Target Seat Depar | 573 | 652 | 758 | 879 | |
| FSD | FSD | DL | CRJ | 50 | 6.0 | | | | | 300 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | CR7 | 70 | 1.0 | | | 1.0 | | 70 | 0 | 0 | 70 | 0 | |
| FSD | FSD | DL | CR9 | 76 | | 2.0 | 2.0 | 3.0 | 3.0 | 0 | 152 | 152 | 228 | 228 | |
| FSD | FSD | DL | E75 | 76 | | 2.0 | 3.0 | | | 0 | 152 | 228 | 0 | 0 | |
| FSD | FSD | DL | M80 | 149 | | 1.0 | 1.0 | 1.0 | | 0 | 149 | 149 | 149 | 0 | |
| FSD | FSD | DL | M90 | 160 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 160 | 320 | |
| FSD | FSD | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | 738 | 160 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 160 | 320 | |
| FSD | FSD | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FSD | FSD | DL | 319 | 124 | | 1.0 | 1.0 | | | 0 | 124 | 124 | 0 | 0 | |
| FSD | FSD | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 | |
| FSD | FSD | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 8.0 | 6.0 | 7.0 | 7.0 | 7.0 | 495 | 577 | 653 | 767 | 868 | |
| Fort Wayne | | | | | | | | | | Target Seat Depar | 95 | 105 | 117 | 130 | |
| FWA | FWA | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| FWA | FWA | DL | CRJ | 50 | 1.0 | 2.0 | 2.0 | 1.0 | | 50 | 100 | 100 | 50 | 0 | |
| FWA | FWA | DL | CR7 | 70 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 70 | 140 | |
| | | | Subtotal | | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 50 | 100 | 100 | 120 | 140 | |
| Spokane | | | | | | | | | | Target Seat Depar | 522 | 578 | 650 | 732 | |
| GEG | GEG | DL | M80 | 149 | | 1.0 | | | | 0 | 149 | 0 | 0 | 0 | |
| GEG | GEG | DL | 320 | 148 | 1.0 | 2.0 | 2.0 | | | 148 | 296 | 296 | 0 | 0 | |
| GEG | GEG | DL | 738 | 160 | | | | 3.0 | 2.0 | 0 | 0 | 0 | 480 | 320 | |
| GEG | GEG | DL | 319 | 124 | | | 1.0 | | 2.0 | 0 | 0 | 124 | 0 | 248 | |
| GEG | GEG | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GEG | GEG | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GEG | GEG | DL | M90 | 160 | 3.0 | | 1.0 | 1.0 | 1.0 | 480 | 0 | 160 | 160 | 160 | |
| GEG | GEG | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GEG | GEG | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GEG | GEG | DL | E75 | 76 | | 1.0 | | | | 0 | 76 | 0 | 0 | 0 | |
| | | | Subtotal | | 4.0 | 4.0 | 4.0 | 4.0 | 5.0 | 628 | 521 | 580 | 640 | 728 | |
| Grand Forks | | | | | | | | | | Target Seat Depar | 401 | 440 | 491 | 547 | |
| GFK | GFK | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GFK | GFK | DL | M80 | 149 | | | | 1.0 | | 0 | 0 | 0 | 149 | 0 | |
| GFK | GFK | DL | CRJ | 50 | 6.0 | 2.0 | 2.0 | 1.0 | | 300 | 100 | 100 | 50 | 0 | |
| GFK | GFK | DL | CR7 | 70 | | | 1.0 | 1.0 | | 0 | 0 | 70 | 70 | 0 | |
| GFK | GFK | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GFK | GFK | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| GFK | GFK | DL | E75 | 76 | | 4.0 | 2.0 | 3.0 | 4.0 | 0 | 304 | 152 | 228 | 304 | |
| GFK | GFK | DL | 319 | 124 | | | 1.0 | | 2.0 | 0 | 0 | 124 | 0 | 248 | |
| GFK | GFK | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 7.0 | 6.0 | 6.0 | 6.0 | 6.0 | 425 | 404 | 446 | 497 | 552 | |
| Grand Junction | | | | | | | | | | Target Seat Depar | 74 | 83 | 96 | 110 | |
| GJT | GJT | DL | 319 | 124 | | 0.6 | 0.7 | 0.8 | 0.9 | 0 | 74 | 87 | 99 | 112 | |
| GJT | GJT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.6 | 0.7 | 0.8 | 0.9 | 0 | 74 | 87 | 99 | 112 | |
| Gulfport | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| GPT | GPT | SY | 738 | 162 | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| Grand Rapids, MN | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| GPZ | GPZ | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|---|--------|------------------|-------|-------|---------------------------|------|------|------|------|--------------------------|------------|------------|------------|------------|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Green Bay | | | | | | | | | | Target Seat Depar | 453 | 497 | 554 | 617 |
| GRB | GRB | DL | 319 | 124 | | 1.0 | | | | 0 | 124 | 0 | 0 | 0 |
| GRB | GRB | DL | 738 | 160 | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| GRB | GRB | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRB | GRB | DL | M80 | 149 | | 1.0 | 2.0 | | | 0 | 149 | 298 | 0 | 0 |
| GRB | GRB | DL | CRJ | 50 | 2.0 | 2.0 | 1.0 | 2.0 | | 100 | 100 | 50 | 100 | 0 |
| GRB | GRB | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRB | GRB | DL | CR9 | 76 | | 1.0 | 2.0 | 2.0 | 4.0 | 0 | 76 | 152 | 152 | 304 |
| GRB | GRB | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 |
| GRB | GRB | DL | 320 | 148 | | | 2.0 | 1.0 | | 0 | 0 | 0 | 296 | 148 |
| GRB | GRB | DL | E75 | 76 | 2.0 | | | | | 152 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 5.0 | 5.0 | 5.0 | 6.0 | 6.0 | 377 | 449 | 500 | 548 | 612 |
| Grand Island, NE | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| GRI | GRI | SY | 738 | 162 | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Grand Rapids, MI | | | | | | | | | | Target Seat Depar | 633 | 700 | 788 | 887 |
| GRR | GRR | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | CRJ | 50 | 2.0 | 2.0 | | | | 100 | 100 | 0 | 0 | 0 |
| GRR | GRR | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | CR9 | 76 | | 1.0 | 2.0 | 2.0 | 1.0 | 0 | 76 | 152 | 152 | 76 |
| GRR | GRR | DL | 320 | 148 | | 2.0 | 1.0 | 1.0 | | 0 | 296 | 148 | 148 | 0 |
| GRR | GRR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | D95 | 125 | 4.0 | | | | | 500 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | M90 | 160 | | | 2.0 | 2.0 | 2.0 | 0 | 0 | 320 | 320 | 320 |
| GRR | GRR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | 738 | 160 | | 1.0 | 1.0 | 3.0 | | 0 | 160 | 0 | 160 | 480 |
| GRR | GRR | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | D94 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GRR | GRR | DL | E75 | 76 | | | 1.0 | | | 0 | 0 | 76 | 0 | 0 |
| GRR | GRR | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 600 | 632 | 696 | 780 | 876 |
| Greensboro/Highpoint/Winston-Salem | | | | | | | | | | Target Seat Depar | 61 | 67 | 75 | 85 |
| GSO | GSO | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GSO | GSO | DL | E75 | 76 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 76 | 76 | 76 | 76 |
| Subtotal | | | | | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 76 | 76 | 76 | 76 |
| Greenville | | | | | | | | | | Target Seat Depar | 0 | 0 | 61 | 69 |
| GSP | GSP | DL | E75 | 76 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 0 | 76 | 76 |
| GSP | GSP | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 0 | 0 | 0 | 76 | 76 |
| Great Falls | | | | | | | | | | Target Seat Depar | 118 | 127 | 138 | 150 |
| GTF | GTF | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GTF | GTF | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GTF | GTF | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| GTF | GTF | DL | E75 | 76 | 2.0 | 1.6 | 1.7 | 1.8 | 2.0 | 152 | 122 | 129 | 137 | 152 |
| Subtotal | | | | | 2.0 | 1.6 | 1.7 | 1.8 | 2.0 | 152 | 122 | 129 | 137 | 152 |
| Hayden | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| HDN | HDN | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HDN | HDN | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HDN | HDN | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Hibbing | | | | | | | | | | Target Seat Depar | 91 | 98 | 106 | 115 |
| HIB | HIB | DL | SF3 | 34 | 3.0 | 3.0 | 3.0 | 3.0 | | 102 | 102 | 102 | 102 | 0 |
| HIB | HIB | DL | CRJ | 50 | | | | | 2.3 | 0 | 0 | 0 | 0 | 115 |
| HIB | HIB | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.3 | 102 | 102 | 102 | 102 | 115 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|----------------------|--------|---------------|-------|-------|---------------------------|------|------|------|------|--------------------------|------------|------------|-------------|-------------|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Helena | | | | | | | | | | Target Seat Depar | 104 | 116 | 132 | 150 |
| HLN | HLN | DL | 319 | 124 | | 0.6 | 1.0 | 1.0 | | 0 | 74 | 124 | 124 | 0 |
| HLN | HLN | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HLN | HLN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HLN | HLN | DL | CR9 | 76 | 1.0 | 0.4 | | | 2.0 | 76 | 30 | 0 | 0 | 152 |
| Subtotal | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 76 | 105 | 124 | 124 | 152 |
| Honolulu | | | | | | | | | | Target Seat Depar | 260 | 285 | 317 | 351 |
| HNL | HNL | DL | 333 | 298 | | 0.9 | 1.0 | 1.0 | 1.2 | 0 | 268 | 298 | 298 | 358 |
| HNL | HNL | DL | 763 | 262 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HNL | HNL | DL | 764 | 246 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HNL | HNL | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.9 | 1.0 | 1.0 | 1.2 | 0 | 268 | 298 | 298 | 358 |
| Huron | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| HON | HON | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HON | HON | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Harlingen | | | | | | | | | | Target Seat Depar | 55 | 64 | 76 | 90 |
| HRL | HRL | SY | 737 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HRL | HRL | SY | 738 | 162 | | 0.1 | 0.4 | | | 0 | 16 | 65 | 0 | 0 |
| HRL | HRL | SY | 73G | 129 | | 0.3 | | 0.6 | 0.7 | 0 | 39 | 0 | 77 | 90 |
| Subtotal | | | | | 0.0 | 0.4 | 0.4 | 0.6 | 0.7 | 0 | 55 | 65 | 77 | 90 |
| HOU - Houston | | | | | | | | | | Target Seat Depar | 861 | 978 | 1138 | 1323 |
| HOU | HOU | SY | 738 | 162 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 162 | 162 | 162 | 162 |
| IAH | HOU | CO | M80 | 144 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | 733 | 130 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | 735 | 104 | 1.0 | | | | | 104 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | 73G | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | 739 | 173 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | ERJ | 50 | 5.0 | | | | | 250 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | ER4 | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | CO | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | UA | 319 | 120 | | | 2.0 | 1.0 | 1.0 | 0 | 0 | 240 | 120 | 120 |
| IAH | HOU | UA | ER4 | 50 | | 5.0 | 4.0 | 5.0 | 4.0 | 0 | 250 | 200 | 250 | 200 |
| IAH | HOU | UA | 320 | 144 | | 1.0 | | | | 0 | 144 | 0 | 0 | 0 |
| IAH | HOU | UA | 738 | 160 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 160 | 320 |
| IAH | HOU | DL | CR9 | 76 | 3.0 | 2.0 | 2.0 | 1.0 | 2.0 | 228 | 152 | 152 | 76 | 152 |
| IAH | HOU | DL | E75 | 76 | 1.0 | 2.0 | 3.0 | 3.0 | 3.0 | 76 | 152 | 228 | 228 | 228 |
| IAH | HOU | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | 320 | 148 | | | 1.0 | 1.0 | | 0 | 0 | 0 | 148 | 148 |
| IAH | HOU | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| IAH | HOU | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 658 | 860 | 982 | 1144 | 1330 |
| Huntsville | | | | | | | | | | Target Seat Depar | 68 | 78 | 91 | 105 |
| HSV | HSV | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| HSV | HSV | DL | E75 | 76 | | 1.0 | 1.0 | 1.2 | 1.4 | 0 | 76 | 76 | 91 | 106 |
| Subtotal | | | | | 0.0 | 1.0 | 1.0 | 1.2 | 1.4 | 0 | 76 | 76 | 91 | 106 |
| Wichita | | | | | | | | | | Target Seat Depar | 120 | 132 | 147 | 164 |
| ICT | ICT | DL | CR9 | 76 | | | 1.0 | 2.0 | 2.0 | 0 | 0 | 76 | 152 | 152 |
| ICT | ICT | DL | CR7 | 70 | | 1.0 | | | | 0 | 70 | 0 | 0 | 0 |
| ICT | ICT | DL | CRJ | 50 | 3.0 | 1.0 | 1.0 | | | 150 | 50 | 50 | 0 | 0 |
| Subtotal | | | | | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 150 | 120 | 126 | 152 | 152 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | | | |
|----------------------------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|--------------------------|------|------|------|-----|----|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 | | |
| Idaho Falls | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | 0 |
| IDA | IDA | DL | CR9 | 76 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| IDA | IDA | DL | CRJ | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bullhead City | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | 0 |
| IFP | IFP | SY | 738 | 162 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| IFP | IFP | SY | 73G | 129 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iron Mountain, MI | | | | | | | | | | | Target Seat Depar | 36 | 39 | 43 | 47 | |
| IMT | IMT | DL | SF3 | 34 | 1.0 | | | | | | | 34 | 0 | 0 | 0 | 0 |
| IMT | IMT | DL | CRJ | 50 | | 0.7 | 0.8 | 0.9 | 1.0 | | | 0 | 35 | 40 | 45 | 50 |
| IMT | IMT | DL | NGT | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 1.0 | 0.7 | 0.8 | 0.9 | 1.0 | 34 | 35 | 40 | 45 | 50 | | |
| Indianapolis | | | | | | | | | | | Target Seat Depar | 624 | 689 | 775 | 872 | |
| IND | IND | DL | M80 | 149 | | 2.0 | 1.0 | | | | | 0 | 298 | 149 | 0 | 0 |
| IND | IND | DL | M90 | 160 | 1.0 | | | 1.0 | 1.0 | 160 | 0 | 0 | 0 | 160 | 160 | |
| IND | IND | DL | 320 | 148 | | 1.0 | 1.0 | 1.0 | | 0 | 148 | 148 | 148 | 0 | 0 | |
| IND | IND | DL | 319 | 124 | | | 2.0 | | | 0 | 0 | 248 | 0 | 0 | 0 | |
| IND | IND | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | 738 | 160 | | | | 2.0 | 4.0 | 0 | 0 | 0 | 0 | 320 | 640 | |
| IND | IND | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | E75 | 76 | | 1.0 | 2.0 | 2.0 | 1.0 | 0 | 76 | 152 | 152 | 76 | | |
| IND | IND | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | CRJ | 50 | 2.0 | 2.0 | | | | 100 | 100 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | M88 | 142 | 1.0 | | | | | 142 | 0 | 0 | 0 | 0 | 0 | |
| IND | IND | DL | D94 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Subtotal | | | | | 5.0 | 6.0 | 6.0 | 6.0 | 6.0 | 527 | 622 | 697 | 780 | 876 | | |
| International Falls | | | | | | | | | | | Target Seat Depar | 117 | 126 | 137 | 149 | |
| INL | INL | NW | SF3 | 33 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| INL | INL | NW | CRJ | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| INL | INL | NW | CRJ | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| INL | INL | DL | SF3 | 34 | 3.0 | 2.0 | 1.0 | 1.0 | | 102 | 68 | 34 | 34 | 0 | | |
| INL | INL | DL | CRJ | 50 | | 1.0 | 2.0 | 2.0 | 3.0 | 0 | 50 | 100 | 100 | 150 | | |
| INL | INL | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | |
| Subtotal | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 102 | 118 | 134 | 134 | 150 | | |
| Ironwood | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | 0 |
| IWD | IWD | ZK | BE1 | 19 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| IWD | IWD | DL | SF3 | 34 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| IWD | IWD | DL | NGT | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jackson Hole | | | | | | | | | | | Target Seat Depar | 119 | 140 | 168 | 202 | |
| JAC | JAC | DL | 319 | 124 | 1.0 | 1.0 | | | 1.6 | 124 | 124 | 0 | 0 | 198 | | |
| JAC | JAC | DL | 320 | 148 | | | 1.0 | | | 0 | 0 | 148 | 0 | 0 | | |
| JAC | JAC | DL | 738 | 160 | | | | 1.0 | | 0 | 0 | 0 | 160 | 0 | | |
| Subtotal | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.6 | 124 | 124 | 148 | 160 | 198 | | |
| Jackson | | | | | | | | | | | Target Seat Depar | 68 | 75 | 84 | 94 | |
| JAN | JAN | NW | CRJ | 50 | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAN | JAN | DL | CR9 | 76 | | 1.0 | 1.0 | 1.0 | 0.6 | 0 | 76 | 76 | 76 | 46 | | |
| JAN | JAN | DL | 319 | 124 | | | | | 0.4 | 0 | 0 | 0 | 0 | 50 | | |
| Subtotal | | | | | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 76 | 76 | 76 | 95 | | |
| Jacksonville | | | | | | | | | | | Target Seat Depar | 214 | 241 | 277 | 318 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| JAX | JAX | NW | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | 757 | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | E90 | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | DL | E75 | 76 | 2.0 | 1.0 | 1.0 | | | | 152 | 76 | 76 | 0 | 0 |
| JAX | JAX | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | DL | M80 | 149 | | 1.0 | | | | | 0 | 149 | 0 | 0 | 0 |
| JAX | JAX | DL | 738 | 160 | | | 1.0 | 1.0 | 2.0 | | 0 | 0 | 160 | 160 | 320 |
| JAX | JAX | DL | 319 | 124 | | | | 1.0 | | | 0 | 0 | 0 | 124 | 0 |
| JAX | JAX | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JAX | JAX | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 152 | 225 | 236 | 284 | 320 |
| Jamestown | | | | | | | | | | | Target Seat Depar | 52 | 56 | 62 | 67 |
| JMS | JMS | DL | SF3 | 34 | 2.0 | 1.6 | 1.7 | 1.8 | | | 68 | 54 | 58 | 61 | 0 |
| JMS | JMS | DL | CRJ | 50 | | | | | 1.4 | | 0 | 0 | 0 | 0 | 70 |
| JMS | JMS | ZK | BE1 | 19 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 2.0 | 1.6 | 1.7 | 1.8 | 1.4 | | 68 | 54 | 58 | 61 | 70 |
| Juneau | | | | | | | | | | | Target Seat Depar | 0 | 0 | 348 | 383 |
| JNU | JNU | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JNU | JNU | DL | 321 | 180 | | | | 1.9 | 2.1 | | 0 | 0 | 0 | 342 | 378 |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 1.9 | 2.1 | | 0 | 0 | 0 | 342 | 378 |
| Lansing | | | | | | | | | | | Target Seat Depar | 80 | 87 | 96 | 106 |
| LAN | LAN | NW | DC9 | 78 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | D9S | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | E90 | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | NW | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | DL | CR9 | 76 | | 1.0 | | | | | 0 | 76 | 0 | 0 | 0 |
| LAN | LAN | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAN | LAN | DL | CRJ | 50 | 1.0 | | 1.8 | 2.0 | 2.0 | | 50 | 0 | 90 | 100 | 100 |
| | | | Subtotal | | 1.0 | 1.0 | 1.8 | 2.0 | 2.0 | | 50 | 76 | 90 | 100 | 100 |
| Las Vegas | | | | | | | | | | | Target Seat Depar | 1227 | 1418 | 1684 | 1997 |
| LAS | LAS | US | 320 | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | US | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | US | 320 | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | HP | 757 | 190 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | HP | 733 | 134 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | HP | 320 | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | HP | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | MG | 727 | 173 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | DL | 753 | 223 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 223 |
| LAS | LAS | DL | 757 | 184 | 2.0 | 1.0 | 1.0 | | | | 368 | 184 | 184 | 0 | 0 |
| LAS | LAS | DL | 76D | 262 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | DL | 764 | 246 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | DL | 320 | 148 | 3.0 | 3.0 | 1.0 | 2.0 | | | 444 | 444 | 148 | 296 | 0 |
| LAS | LAS | DL | 738 | 160 | | | 2.0 | 3.0 | 2.0 | | 0 | 0 | 320 | 480 | 320 |
| LAS | LAS | DL | 321 | 180 | | | | 1.0 | 4.0 | | 0 | 0 | 0 | 180 | 720 |
| LAS | LAS | DL | NGD | 225 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | DL | M90 | 160 | 1.0 | 1.0 | 2.0 | | | | 160 | 160 | 320 | 0 | 0 |
| LAS | LAS | DL | 319 | 124 | | | | 1.0 | | | 0 | 0 | 0 | 124 | 0 |
| LAS | LAS | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | WN | 73G | 137 | | 2.0 | 2.0 | 2.0 | 3.0 | | 0 | 274 | 274 | 274 | 411 |
| LAS | LAS | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LAS | LAS | SY | 738 | 162 | | 1.0 | 1.0 | 2.0 | 2.0 | | 0 | 162 | 162 | 324 | 324 |
| LAS | LAS | SY | 73G | 129 | 1.0 | | | | | | 129 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 7.0 | 8.0 | 9.0 | 11.0 | 12.0 | | 1101 | 1224 | 1408 | 1678 | 1998 |
| Lubbock | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| LBB | LBB | NW | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|--------------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Lexington | | | | | | | | | | | Target Seat Depar | 89 | 98 | 109 | 121 |
| LEX | LEX | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LEX | LEX | DL | CRJ | 50 | | 1.8 | 2.0 | 2.0 | 1.0 | 0 | 90 | 100 | 100 | 50 | 50 |
| LEX | LEX | DL | E75 | 76 | | | | | 1.0 | 0 | 0 | 0 | 0 | 0 | 76 |
| | | | Subtotal | | 0.0 | 1.8 | 2.0 | 2.0 | 2.0 | 0 | 90 | 100 | 100 | 126 | |
| Little Rock | | | | | | | | | | | Target Seat Depar | 65 | 72 | 82 | 92 |
| LIT | LIT | NW | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | NW | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | NW | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LIT | LIT | DL | CRJ | 50 | | | | 2.0 | 0 | 0 | 0 | 0 | 0 | 100 | 100 |
| LIT | LIT | DL | E75 | 76 | | 1.0 | 1.0 | 1.0 | 0 | 76 | 76 | 76 | 76 | 0 | 0 |
| | | | Subtotal | | 0.0 | 1.0 | 1.0 | 1.0 | 2.0 | 0 | 76 | 76 | 76 | 100 | |
| Lincoln | | | | | | | | | | | Target Seat Depar | 183 | 203 | 230 | 261 |
| LNK | LNK | NW | SF3 | 33 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | NW | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | NW | E90 | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | NW | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LNK | LNK | DL | CRJ | 50 | 4.0 | 2.0 | 4.0 | 3.0 | 2.0 | 200 | 100 | 200 | 150 | 100 | 100 |
| LNK | LNK | DL | E75 | 76 | | 1.0 | | 1.0 | 2.0 | 0 | 76 | 0 | 76 | 152 | 152 |
| | | | Subtotal | | 4.0 | 3.0 | 4.0 | 4.0 | 4.0 | 200 | 176 | 200 | 226 | 252 | |
| LOS - Los Angeles | | | | | | | | | | | Target Seat Depar | 2365 | 2526 | 2855 | 3225 |
| LAX | LOS | DL | 757 | 184 | | 2.0 | 1.0 | | | 0 | 368 | 184 | 0 | 0 | 0 |
| LAX | LOS | DL | 320 | 148 | 2.0 | | 1.0 | 1.0 | 1.0 | 296 | 0 | 148 | 148 | 148 | 148 |
| LAX | LOS | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | 753 | 223 | 3.0 | 2.0 | 1.0 | 1.0 | | 669 | 446 | 223 | 223 | 0 | 0 |
| LAX | LOS | DL | 76D | 262 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 262 | 262 | 262 | 262 | 262 |
| LAX | LOS | DL | 764 | 246 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | 738 | 160 | 1.0 | 1.0 | 2.0 | 3.0 | 2.0 | 160 | 160 | 320 | 480 | 320 | 320 |
| LAX | LOS | DL | 321 | 180 | | | | 1.0 | 3.0 | 0 | 0 | 0 | 180 | 540 | 540 |
| LAX | LOS | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | 744 | 403 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | 752 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LAX | LOS | SY | 738 | 162 | | 2.0 | 2.0 | 3.0 | 2.0 | 0 | 324 | 324 | 486 | 324 | 324 |
| LAX | LOS | SY | 73G | 129 | 1.0 | | | | 2.0 | 129 | 0 | 0 | 0 | 258 | 258 |
| LAX | LOS | WN | 73G | 137 | | | 2.0 | 2.0 | 2.0 | 0 | 0 | 274 | 274 | 274 | 274 |
| LAX | LOS | F9 | 319 | 132 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ONT | LOS | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| ONT | LOS | DL | 738 | 160 | | 2.0 | 2.0 | 2.0 | 3.0 | 0 | 320 | 320 | 320 | 480 | 480 |
| SNA | LOS | DL | 320 | 148 | | | | | 1.0 | 0 | 0 | 0 | 0 | 148 | 148 |
| SNA | LOS | DL | 319 | 124 | 3.0 | | | | | 372 | 0 | 0 | 0 | 0 | 0 |
| SNA | LOS | DL | 738 | 160 | | 3.0 | 3.0 | 3.0 | 3.0 | 0 | 480 | 480 | 480 | 480 | 480 |
| SNA | LOS | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 10.0 | 13.0 | 15.0 | 17.0 | 20.0 | 1626 | 2360 | 2535 | 2853 | 3234 | |
| La Crosse | | | | | | | | | | | Target Seat Depar | 213 | 235 | 264 | 297 |
| LSE | LSE | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSE | LSE | DL | CRJ | 50 | 5.0 | 3.6 | 3.0 | 4.0 | 3.0 | 250 | 180 | 150 | 200 | 150 | 150 |
| LSE | LSE | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSE | LSE | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSE | LSE | DL | E75 | 76 | | 0.4 | 1.0 | 1.0 | 2.0 | 0 | 30 | 76 | 76 | 152 | 152 |
| LSE | LSE | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSE | LSE | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| LSE | LSE | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | 5.0 | 4.0 | 4.0 | 5.0 | 5.0 | 250 | 210 | 226 | 276 | 302 | |
| Saginaw | | | | | | | | | | | Target Seat Depar | 39 | 42 | 45 | 47 |
| MBS | MBS | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| MBS | MBS | DL | CRJ | 50 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 50 | 50 | 50 | 50 | 50 | 50 |
| MBS | MBS | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | |
|--------------------|--------|-------|---------|-------|-------|-------------------------------|------|------|------|-----------------------|------|------|------|------|------|
| | | | | | | EA Analysis Pd. | | | | EA Analysis Pd. | | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Subtotal | | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 50 | 50 | 50 | 50 | 50 |
| Kansas City | | | | | | Target Seat Departures | | | | | | 882 | 986 | 1123 | 1278 |
| MCI | MCI | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | D95 | 125 | 4.0 | | | | | | 500 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | 319 | 124 | 1.0 | 2.0 | 1.0 | 1.0 | | | 124 | 248 | 124 | 124 | 0 |
| MCI | MCI | DL | 738 | 160 | | | | | 3.0 | | 0 | 0 | 0 | 0 | 480 |
| MCI | MCI | DL | 320 | 148 | | | | 2.0 | | | 0 | 0 | 0 | 296 | 0 |
| MCI | MCI | DL | M80 | 149 | | 1.0 | 1.0 | 1.0 | | | 0 | 149 | 149 | 149 | 0 |
| MCI | MCI | DL | M90 | 160 | 1.0 | 3.0 | 1.0 | | 2.0 | | 160 | 480 | 160 | 0 | 320 |
| MCI | MCI | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | CR9 | 76 | | | 2.0 | 2.0 | 1.0 | | 0 | 0 | 152 | 152 | 76 |
| MCI | MCI | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | 753 | 223 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | WN | 73G | 137 | | | 3.0 | 3.0 | 3.0 | | 0 | 0 | 411 | 411 | 411 |
| MCI | MCI | YX | FRJ | 32 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCI | MCI | YX | 717 | 88 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 6.0 | 6.0 | 8.0 | 9.0 | 9.0 | 784 | 877 | 996 | 1132 | 1287 |
| Orlando | | | | | | Target Seat Departures | | | | | | 813 | 928 | 1082 | 1259 |
| MCO | MCO | FL | 73G | 137 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | FL | 717 | 117 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | 757 | 184 | 2.0 | | 2.0 | | | | 368 | 0 | 368 | 0 | 0 |
| MCO | MCO | DL | 320 | 148 | 2.0 | 2.0 | | 1.0 | | | 296 | 296 | 0 | 148 | 0 |
| MCO | MCO | DL | 753 | 223 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | 319 | 124 | | 1.0 | | 2.0 | | | 0 | 124 | 0 | 248 | 0 |
| MCO | MCO | DL | 738 | 160 | | | 1.0 | 1.0 | | | 0 | 0 | 160 | 160 | 0 |
| MCO | MCO | DL | 763 | 262 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | 764 | 246 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | 321 | 180 | | | | | 4.0 | | 0 | 0 | 0 | 0 | 720 |
| MCO | MCO | DL | NGD | 225 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | M90 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | WN | 73G | 137 | | | 2.0 | 2.0 | 2.0 | | 0 | 0 | 274 | 274 | 274 |
| MCO | MCO | WN | 733 | 137 | | 2.0 | | | | | 0 | 274 | 0 | 0 | 0 |
| MCO | MCO | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MCO | MCO | SY | 73G | 129 | 1.0 | 1.0 | 1.0 | 2.0 | 2.0 | | 129 | 129 | 129 | 258 | 258 |
| Subtotal | | | | | | 5.0 | 6.0 | 6.0 | 8.0 | 8.0 | 793 | 823 | 931 | 1088 | 1252 |
| Mason City | | | | | | Target Seat Departures | | | | | | 97 | 106 | 117 | 128 |
| MCW | MCW | DL | CRJ | 50 | | | | 1.0 | 2.6 | | 0 | 0 | 0 | 50 | 130 |
| MCW | MCW | DL | SF3 | 34 | 3.0 | 3.0 | 3.0 | 2.0 | | | 102 | 102 | 102 | 68 | 0 |
| Subtotal | | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 2.6 | 102 | 102 | 102 | 118 | 130 |
| Harrisburg | | | | | | Target Seat Departures | | | | | | 0 | 101 | 112 | 123 |
| MDT | MDT | DL | CR9 | 76 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 76 | 76 |
| MDT | MDT | DL | CRJ | 50 | | | 2.0 | 1.0 | 1.0 | | 0 | 0 | 100 | 50 | 50 |
| MDT | MDT | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 2.0 | 2.0 | 2.0 | 0 | 0 | 100 | 126 | 126 |
| Memphis | | | | | | Target Seat Departures | | | | | | 747 | 941 | 1193 | 1656 |
| MEM | MEM | DL | CR9 | 76 | 1.0 | 1.0 | 2.0 | | | | 76 | 76 | 152 | 0 | 0 |
| MEM | MEM | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | D95 | 125 | 1.0 | | | | | | 125 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | 320 | 148 | | 1.0 | | 1.0 | 2.0 | | 0 | 148 | 0 | 148 | 296 |
| MEM | MEM | DL | 319 | 124 | 1.0 | 3.0 | | | | | 124 | 372 | 0 | 0 | 0 |
| MEM | MEM | DL | 753 | 223 | | | | 1.0 | | | 0 | 0 | 0 | 223 | 0 |
| MEM | MEM | DL | 738 | 160 | 2.0 | | 2.0 | 4.0 | 4.0 | | 320 | 0 | 320 | 640 | 640 |
| MEM | MEM | DL | M80 | 149 | | 1.0 | | 1.0 | | | 0 | 149 | 149 | 0 | 0 |
| MEM | MEM | DL | M90 | 160 | | | 2.0 | | | | 0 | 0 | 320 | 0 | 0 |
| MEM | MEM | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | 321 | 180 | | | | 1.0 | 4.0 | | 0 | 0 | 0 | 180 | 720 |
| MEM | MEM | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------|--------|-------|---------|-------|-------|---------------------------|------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| MEM | MEM | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | D94 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEM | MEM | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 5.0 | 6.0 | 7.0 | 7.0 | 10.0 | 645 | 745 | 941 | 1191 | 1656 | |
| Manchester | | | | | | | | | | | Target Seat Depar | 127 | 142 | 163 | 187 |
| MHT | MHT | DL | CR9 | 76 | | | 2.0 | 2.0 | 1.2 | 0 | 0 | 152 | 152 | 91 | |
| MHT | MHT | DL | 319 | 124 | | 1.0 | | | 0.8 | 0 | 124 | 0 | 0 | 99 | |
| MHT | MHT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| Subtotal | | | | | 0.0 | 1.0 | 2.0 | 2.0 | 2.0 | 0 | 124 | 152 | 152 | 190 | |
| Miami | | | | | | | | | | | Target Seat Depar | 549 | 612 | 695 | 789 |
| MIA | MIA | AA | M80 | 140 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | AA | 738 | 160 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 160 | 160 | 160 | 160 | 160 | |
| MIA | MIA | AA | M83 | 140 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | NW | 757 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | NW | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | NW | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | DL | 320 | 148 | 2.0 | | | | | 296 | 0 | 0 | 0 | 0 | |
| MIA | MIA | DL | 319 | 124 | | | | 2.0 | 1.0 | 0 | 0 | 0 | 248 | 124 | |
| MIA | MIA | DL | 321 | 180 | | | | | 1.0 | 0 | 0 | 0 | 0 | 180 | |
| MIA | MIA | DL | 738 | 160 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 160 | 160 | |
| MIA | MIA | DL | M90 | 160 | | 2.0 | 2.0 | | | 0 | 320 | 320 | 0 | 0 | |
| MIA | MIA | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MIA | MIA | SY | 738 | 162 | | 0.4 | | | 1.0 | 0 | 65 | 0 | 0 | 162 | |
| MIA | MIA | SY | 73G | 129 | | | 1.0 | 1.0 | | 0 | 0 | 129 | 129 | 0 | |
| Subtotal | | | | | 3.0 | 3.4 | 4.0 | 5.0 | 5.0 | 456 | 545 | 609 | 697 | 786 | |
| Milwaukee | | | | | | | | | | | Target Seat Depar | 1983 | 2131 | 2315 | 2516 |
| MKE | MKE | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | D95 | 125 | 3.0 | | | | | 375 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | 320 | 148 | | 2.0 | 2.0 | 3.0 | 2.0 | 0 | 296 | 296 | 444 | 296 | |
| MKE | MKE | DL | 319 | 124 | 2.0 | 2.0 | | 1.0 | | 248 | 248 | 0 | 124 | 0 | |
| MKE | MKE | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | M80 | 149 | | 2.0 | 2.0 | | | 0 | 298 | 298 | 0 | 0 | |
| MKE | MKE | DL | M90 | 160 | 2.0 | 2.0 | 2.0 | 3.0 | 3.0 | 320 | 320 | 320 | 480 | 480 | |
| MKE | MKE | DL | 738 | 160 | | | 2.0 | 2.0 | 3.0 | 0 | 0 | 320 | 320 | 480 | |
| MKE | MKE | DL | 321 | 180 | | | | | 1.0 | 0 | 0 | 0 | 0 | 180 | |
| MKE | MKE | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | D94 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | DL | E75 | 76 | 1.0 | | | | | 76 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | 717 | 88 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | FRJ | 32 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | FRJ | 32 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | ERJ | 50 | 3.0 | | | | | 150 | 0 | 0 | 0 | 0 | |
| MKE | MKE | YX | E70 | 76 | 2.0 | | | | | 152 | 0 | 0 | 0 | 0 | |
| MKE | MKE | FL | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | FL | 717 | 117 | 3.0 | | | | | 351 | 0 | 0 | 0 | 0 | |
| MKE | MKE | F9 | 319 | 132 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 132 | 132 | 132 | 132 | |
| MKE | MKE | F9 | CS3 | 130 | | | 1.0 | 2.0 | 3.0 | 0 | 0 | 130 | 260 | 390 | |
| MKE | MKE | F9 | 320 | 162 | | 3.0 | 3.0 | 3.0 | 3.0 | 0 | 486 | 486 | 486 | 486 | |
| MKE | MKE | F9 | ERJ | 50 | | 1.0 | | | | 0 | 50 | 0 | 0 | 0 | |
| MKE | MKE | F9 | ER3 | 32 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MKE | MKE | F9 | E70 | 76 | | 2.0 | 2.0 | 1.0 | 1.0 | 0 | 152 | 152 | 76 | 76 | |
| MKE | MKE | F9 | E90 | 99 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| Subtotal | | | | | 16.0 | 15.0 | 15.0 | 16.0 | 17.0 | 1672 | 1982 | 2134 | 2322 | 2520 | |
| Moline | | | | | | | | | | | Target Seat Depar | 163 | 178 | 196 | 216 |
| MLI | MLI | DL | CR9 | 76 | | | 1.0 | | 1.0 | 0 | 0 | 76 | 0 | 76 | |
| MLI | MLI | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| MLI | MLI | DL | CRJ | 50 | 3.0 | 3.2 | 2.0 | 4.0 | 3.0 | 150 | 160 | 100 | 200 | 150 | |
| MLI | MLI | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | |
|---------------------|--------|-------|---------|-------|----------|---------------------------|------|-----------------|------|-----------------------|--------------------------|------------|-----------------|------------|------------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | 2030 |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | |
| | | | | | | 3.0 | 3.2 | 3.0 | 4.0 | 4.0 | 150 | 160 | 176 | 200 | 226 |
| | | | | | Subtotal | | | | | | | | | | |
| Mobile | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| | MOB | MOB | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Minot | | | | | | | | | | | Target Seat Depar | 332 | 362 | 398 | 438 |
| | MOT | MOT | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 |
| | MOT | MOT | DL | 320 | 148 | | | 1.0 | | | | 0 | 0 | 0 | 148 |
| | MOT | MOT | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 |
| | MOT | MOT | DL | M80 | 149 | | | 1.0 | | | | 0 | 0 | 149 | 0 |
| | MOT | MOT | DL | 738 | 160 | | | | 1.0 | | | 0 | 0 | 0 | 160 |
| | MOT | MOT | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 |
| | MOT | MOT | DL | CRJ | 50 | 2.0 | 2.0 | 3.0 | 2.0 | 1.0 | 100 | 100 | 150 | 100 | 50 |
| | MOT | MOT | DL | E75 | 76 | 3.0 | 3.0 | 1.0 | 2.0 | 3.0 | 228 | 228 | 76 | 152 | 228 |
| | | | | | Subtotal | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 328 | 328 | 375 | 400 | 438 |
| Marquette | | | | | | | | | | | Target Seat Depar | 94 | 103 | 114 | 126 |
| | MQT | MQT | DL | SF3 | 34 | | | | | | | 0 | 0 | 0 | 0 |
| | MQT | MQT | DL | CRJ | 50 | | 2.0 | 2.0 | 2.3 | 2.6 | 0 | 100 | 100 | 100 | 115 |
| | MQT | MQT | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 2.0 | 2.0 | 2.0 | 2.3 | 2.6 | 100 | 100 | 100 | 115 | 130 |
| Madison | | | | | | | | | | | Target Seat Depar | 531 | 595 | 680 | 776 |
| | MSN | MSN | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | 320 | 148 | | 1.0 | 1.0 | 2.0 | 1.0 | 0 | 148 | 148 | 296 | 148 |
| | MSN | MSN | DL | 319 | 124 | 1.0 | | | | | 124 | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | M80 | 149 | | | 1.0 | | | 0 | 0 | 149 | 0 | 0 |
| | MSN | MSN | DL | 738 | 160 | | 1.0 | | | 2.0 | 0 | 160 | 0 | 0 | 320 |
| | MSN | MSN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | E75 | 76 | | 2.0 | 3.0 | 3.0 | 2.0 | 0 | 152 | 228 | 228 | 152 |
| | MSN | MSN | DL | D9S | 125 | 3.0 | | | | | 375 | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | M90 | 160 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 160 | 160 |
| | MSN | MSN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSN | MSN | DL | CR9 | 76 | | 1.0 | 1.0 | | | 0 | 76 | 76 | 0 | 0 |
| | MSN | MSN | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSN | MSN | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 6.0 | 5.0 | 6.0 | 6.0 | 6.0 | 599 | 536 | 601 | 684 | 780 |
| Missoula | | | | | | | | | | | Target Seat Depar | 167 | 189 | 220 | 254 |
| | MSO | MSO | DL | 319 | 124 | | | 1.0 | | 2.0 | 0 | 0 | 124 | 0 | 248 |
| | MSO | MSO | DL | M80 | 149 | | | | 1.0 | | 0 | 0 | 0 | 149 | 0 |
| | MSO | MSO | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSO | MSO | DL | E75 | 76 | 2.0 | 2.0 | 1.0 | 1.0 | | 152 | 152 | 76 | 76 | 0 |
| | MSO | MSO | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 152 | 152 | 200 | 225 | 248 |
| New Orleans | | | | | | | | | | | Target Seat Depar | 124 | 137 | 153 | 171 |
| | MSY | MSY | DL | CR9 | 76 | | 1.7 | 1.8 | 2.0 | 1.6 | 0 | 129 | 137 | 152 | 122 |
| | MSY | MSY | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | DL | 319 | 124 | | | | | 0.4 | 0 | 0 | 0 | 0 | 50 |
| | MSY | MSY | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | DL | E75 | 76 | 2.0 | | | | | 152 | 0 | 0 | 0 | 0 |
| | MSY | MSY | WN | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MSY | MSY | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 2.0 | 1.7 | 1.8 | 2.0 | 2.0 | 152 | 129 | 137 | 152 | 171 |
| Montrose | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| | MTJ | MTJ | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MTJ | MTJ | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | Subtotal | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Myrtle Beach | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-----------------------|--------|-------|---------|-------|-------|---------------------------|------|------|------|--------------------------|-----------------------|-------------|-------------|-------------|------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| MYR | MYR | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MYR | MYR | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| NYC - New York | | | | | | | | | | Target Seat Depar | 3097 | 3260 | 3619 | 4018 | |
| EWR | NYC | CO | 733 | 130 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | 735 | 104 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | 73G | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | ERJ | 50 | 6.0 | | | | | | 300 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | ER4 | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | CO | E70 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | UA | ER4 | 50 | | 5.0 | 5.0 | 4.0 | 4.0 | | 0 | 250 | 250 | 200 | 200 |
| EWR | NYC | UA | 738 | 160 | | | | | 2.0 | | 0 | 0 | 0 | 0 | 320 |
| EWR | NYC | UA | 319 | 120 | | 1.0 | 1.0 | 2.0 | | | 0 | 120 | 120 | 240 | 0 |
| EWR | NYC | DL | E75 | 76 | 1.0 | 1.0 | 1.0 | 1.0 | | | 76 | 76 | 76 | 76 | 0 |
| EWR | NYC | DL | 320 | 148 | | 1.0 | 1.0 | 2.0 | 1.0 | | 0 | 148 | 148 | 296 | 148 |
| EWR | NYC | DL | 319 | 124 | 1.0 | 1.0 | | | 1.0 | | 124 | 124 | 0 | 0 | 124 |
| EWR | NYC | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | M90 | 160 | | 1.0 | 2.0 | 2.0 | 2.0 | | 0 | 160 | 320 | 320 | 320 |
| EWR | NYC | DL | 738 | 160 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| EWR | NYC | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | D95 | 125 | 1.0 | | | | | | 125 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | CR9 | 76 | | 1.0 | 1.0 | | | | 0 | 76 | 76 | 0 | 0 |
| EWR | NYC | DL | 738 | 160 | 1.0 | | | | | | 160 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | M88 | 142 | 1.0 | | | | | | 142 | 0 | 0 | 0 | 0 |
| EWR | NYC | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| HPN | NYC | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| HPN | NYC | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | CR9 | 76 | 2.0 | 2.0 | 1.0 | 1.0 | | | 152 | 152 | 76 | 76 | 0 |
| JFK | NYC | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | 319 | 124 | | | 2.0 | 1.0 | 1.0 | | 0 | 0 | 248 | 124 | 124 |
| JFK | NYC | DL | M90 | 160 | | 1.0 | | 1.0 | 1.0 | | 0 | 160 | 0 | 160 | 160 |
| JFK | NYC | DL | 738 | 160 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 160 | 160 |
| JFK | NYC | DL | 321 | 180 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 180 |
| JFK | NYC | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | 767 | 262 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | 752 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| JFK | NYC | DL | M80 | 149 | 1.0 | 1.0 | 1.0 | | | | 149 | 149 | 149 | 0 | 0 |
| JFK | NYC | DL | E75 | 76 | 1.0 | | | | | | 76 | 0 | 0 | 0 | 0 |
| JFK | NYC | B6 | E90 | 100 | | 2.0 | 3.0 | 3.0 | 4.0 | | 0 | 200 | 300 | 300 | 400 |
| JFK | NYC | SY | 738 | 162 | 1.0 | 0.4 | 0.6 | 1.0 | 1.0 | | 162 | 65 | 97 | 162 | 162 |
| JFK | NYC | SY | 73G | 129 | | 0.6 | 0.4 | | | | 0 | 77 | 52 | 0 | 0 |
| LGA | NYC | AA | M80 | 140 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LGA | NYC | AA | 738 | 160 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 160 | 160 |
| LGA | NYC | AA | CR7 | 70 | | 4.0 | 4.0 | 3.0 | 3.0 | | 0 | 280 | 280 | 210 | 210 |
| LGA | NYC | DL | 320 | 148 | 2.0 | 3.0 | 3.0 | 1.0 | | | 296 | 444 | 444 | 148 | 0 |
| LGA | NYC | DL | 319 | 124 | 2.0 | | | | | | 248 | 0 | 0 | 0 | 0 |
| LGA | NYC | DL | M80 | 149 | | 2.0 | 1.0 | | | | 0 | 298 | 149 | 0 | 0 |
| LGA | NYC | DL | M90 | 160 | | 1.0 | 2.0 | 2.0 | 1.0 | | 0 | 160 | 320 | 320 | 160 |
| LGA | NYC | DL | 738 | 160 | | 1.0 | 1.0 | 2.0 | 2.0 | | 0 | 160 | 160 | 320 | 320 |
| LGA | NYC | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LGA | NYC | DL | 321 | 180 | | | | 2.0 | 4.0 | | 0 | 0 | 0 | 360 | 720 |
| LGA | NYC | DL | CR9 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LGA | NYC | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LGA | NYC | DL | M88 | 142 | 3.0 | | | | | | 426 | 0 | 0 | 0 | 0 |
| LGA | NYC | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 24.0 | 29.0 | 30.0 | 30.0 | 31.0 | 2436 | 3099 | 3265 | 3632 | 4028 | |
| Kahului | | | | | | | | | | Target Seat Depar | 134 | 152 | 176 | 204 | |
| OGG | OGG | DL | 76D | 262 | | 0.6 | 0.6 | 0.7 | 0.8 | | 0 | 157 | 157 | 183 | 210 |
| OGG | OGG | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.6 | 0.6 | 0.7 | 0.8 | 0 | 157 | 157 | 183 | 210 | |
| Oklahoma City | | | | | | | | | | Target Seat Depar | 134 | 148 | 167 | 189 | |
| OKC | OKC | DL | CRJ | 50 | 2.0 | 2.7 | | 2.0 | 1.4 | | 100 | 135 | 0 | 100 | 70 |
| OKC | OKC | DL | CR7 | 70 | 1.0 | | | | | | 70 | 0 | 0 | 0 | 0 |
| OKC | OKC | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | |
|------------------------|--------|----------|---------|-------|-------|---------------------------|------|-----------------|------|--------------------------|-------------|-------------|-----------------|-------------|------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | 2030 |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | |
| OKC | OKC | DL | CR9 | 76 | | | 2.0 | 1.0 | 1.6 | 0 | 0 | 152 | 76 | 122 | |
| | | Subtotal | | | 3.0 | 2.7 | 2.0 | 3.0 | 3.0 | 170 | 135 | 152 | 176 | 192 | |
| Omaha | | | | | | | | | | Target Seat Depar | 714 | 788 | 884 | 992 | |
| OMA | OMA | DL | CRJ | 50 | | 3.0 | | | | 100 | 150 | 0 | 0 | 0 | |
| OMA | OMA | DL | CR7 | 70 | 2.0 | | | | | 140 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | CR9 | 76 | 1.0 | | 4.0 | 3.0 | 2.0 | 76 | 0 | 304 | 228 | 152 | |
| OMA | OMA | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | 319 | 124 | 1.0 | 2.0 | | | | 124 | 248 | 0 | 0 | 0 | |
| OMA | OMA | DL | M80 | 149 | | 1.0 | | | | 0 | 149 | 0 | 0 | 0 | |
| OMA | OMA | DL | M90 | 160 | | 1.0 | 3.0 | 1.0 | 1.0 | 0 | 160 | 480 | 160 | 160 | |
| OMA | OMA | DL | 738 | 160 | | | | 2.0 | 2.0 | 0 | 0 | 0 | 320 | 320 | |
| OMA | OMA | DL | 321 | 180 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 180 | 360 | |
| OMA | OMA | DL | D95 | 125 | 2.0 | | | | | 250 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | D94 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| OMA | OMA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 8.0 | 7.0 | 7.0 | 7.0 | 7.0 | 690 | 707 | 784 | 888 | 992 | |
| Norfolk | | | | | | | | | | Target Seat Depar | 90 | 100 | 113 | 128 | |
| ORF | ORF | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| ORF | ORF | DL | 319 | 124 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 124 | 124 | |
| ORF | ORF | DL | E75 | 76 | 2.0 | 0.8 | 0.7 | | | 152 | 61 | 53 | 0 | 0 | |
| ORF | ORF | DL | M80 | 149 | | 0.2 | 0.3 | | | 0 | 30 | 45 | 0 | 0 | |
| ORF | ORF | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| ORF | ORF | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 152 | 91 | 98 | 124 | 124 | |
| West Palm Beach | | | | | | | | | | Target Seat Depar | 162 | 185 | 217 | 254 | |
| PBI | PBI | DL | 738 | 160 | | 1.0 | | | | 0 | 160 | 0 | 0 | 0 | |
| PBI | PBI | DL | 757 | 184 | | | 1.0 | | | 0 | 0 | 184 | 0 | 0 | |
| PBI | PBI | DL | 319 | 124 | | | | 2.0 | 2.0 | 0 | 0 | 0 | 248 | 248 | |
| PBI | PBI | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PBI | PBI | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| | | Subtotal | | | 0.0 | 1.0 | 1.0 | 2.0 | 2.0 | 0 | 160 | 184 | 248 | 248 | |
| Portland, OR | | | | | | | | | | Target Seat Depar | 970 | 1150 | 1385 | 1750 | |
| PDX | PDX | DL | 738 | 160 | | | | | 2.0 | 0 | 0 | 0 | 0 | 320 | |
| PDX | PDX | DL | 757 | 184 | 1.0 | 2.0 | 2.0 | | | 184 | 368 | 368 | 0 | 0 | |
| PDX | PDX | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PDX | PDX | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PDX | PDX | DL | 753 | 223 | 2.0 | 2.0 | 1.0 | 1.0 | | 446 | 446 | 223 | 223 | 0 | |
| PDX | PDX | DL | 321 | 180 | | | | 2.0 | 3.0 | 0 | 0 | 0 | 360 | 540 | |
| PDX | PDX | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PDX | PDX | DL | M90 | 160 | 2.0 | | 1.0 | 1.0 | | 320 | 0 | 160 | 160 | 0 | |
| PDX | PDX | DL | 738 | 160 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 160 | 160 | |
| PDX | PDX | DL | 752 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PDX | PDX | AS | 73G | 124 | | | 2.0 | | 2.0 | 0 | 0 | 248 | 0 | 248 | |
| PDX | PDX | AS | 738 | 160 | | | | 2.0 | 2.0 | 0 | 0 | 0 | 320 | 320 | |
| PDX | PDX | SY | 738 | 162 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 162 | 162 | 162 | 162 | |
| | | Subtotal | | | 5.0 | 5.0 | 7.0 | 8.0 | 11.0 | 950 | 976 | 1161 | 1385 | 1750 | |
| Philadelphia | | | | | | | | | | Target Seat Depar | 1214 | 1337 | 1495 | 1672 | |
| PHL | PHL | US | 737 | 126 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | 733 | 126 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | 320 | 142 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 142 | 142 | 142 | 142 | |
| PHL | PHL | US | 734 | 144 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | 32S | 150 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | 319 | 124 | 2.0 | 1.0 | | | 1.0 | 248 | 124 | 0 | 0 | 124 | |
| PHL | PHL | US | E70 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | E75 | 76 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 152 | 152 | 152 | 76 | 76 | |
| PHL | PHL | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | E70 | 72 | | | | | | 0 | 0 | 0 | 0 | 0 | |
| PHL | PHL | US | 321 | 183 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 183 | 183 | 183 | |
| PHL | PHL | US | E90 | 99 | | 1.0 | 1.0 | 2.0 | 1.0 | 0 | 99 | 99 | 198 | 99 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| PHL | PHL | WN | 73G | 137 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | E75 | 76 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | | 76 | 76 | 76 | 76 | 76 |
| PHL | PHL | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | 738 | 160 | | | 1.0 | 1.0 | | | 0 | 0 | 0 | 160 | 160 |
| PHL | PHL | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | M90 | 160 | | 2.0 | 2.0 | 2.0 | 2.0 | | 0 | 320 | 320 | 320 | 320 |
| PHL | PHL | DL | 321 | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | 320 | 148 | | | 1.0 | 1.0 | | | 0 | 0 | 148 | 0 | 148 |
| PHL | PHL | DL | 319 | 124 | 2.0 | | | | | | 248 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | 757 | 184 | 1.0 | | | | | | 184 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | 753 | 223 | | 1.0 | 1.0 | 1.0 | 1.0 | | 0 | 223 | 223 | 223 | 223 |
| PHL | PHL | DL | CR9 | 76 | 1.0 | 1.0 | | | | | 76 | 76 | 0 | 0 | 0 |
| PHL | PHL | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHL | PHL | SY | 73G | 129 | | | 1.0 | 1.0 | | | 0 | 0 | 0 | 129 | 129 |
| | | | Subtotal | | | 9.0 | 10.0 | 10.0 | 11.0 | 12.0 | 984 | 1212 | 1343 | 1507 | 1680 |
| Phoenix | | | | | | | | | | | Target Seat Depar | 1958 | 2213 | 2554 | 2942 |
| PHX | PHX | US | 733 | 134 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | US | 320 | 150 | | 2.0 | 1.0 | 1.0 | 2.0 | | 0 | 300 | 150 | 150 | 300 |
| PHX | PHX | US | 321 | 183 | 1.0 | 1.0 | 2.0 | 3.0 | 4.0 | | 183 | 183 | 366 | 549 | 732 |
| PHX | PHX | US | 319 | 124 | 1.0 | 1.0 | 1.0 | 1.0 | | | 124 | 124 | 124 | 124 | 0 |
| PHX | PHX | US | 752 | 190 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | US | 733 | 126 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | US | 320 | 142 | 2.0 | | | | | | 284 | 0 | 0 | 0 | 0 |
| PHX | PHX | US | 319 | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | WN | 73G | 137 | | 1.0 | 4.0 | 5.0 | 6.0 | | 0 | 137 | 548 | 685 | 822 |
| PHX | PHX | WN | 733 | 137 | | 2.0 | | | | | 0 | 274 | 0 | 0 | 0 |
| PHX | PHX | WN | 735 | 122 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | WN | 717 | 122 | | 1.0 | 1.0 | | | | 0 | 122 | 122 | 0 | 0 |
| PHX | PHX | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | SY | 73G | 129 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | 738 | 160 | | 1.0 | 1.0 | | | | 0 | 160 | 160 | 0 | 0 |
| PHX | PHX | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | M90 | 160 | | 3.0 | 3.0 | 2.0 | | | 0 | 480 | 480 | 320 | 0 |
| PHX | PHX | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | 320 | 148 | 6.0 | | 1.0 | | 1.0 | | 888 | 0 | 148 | 0 | 148 |
| PHX | PHX | DL | 319 | 124 | | | 1.0 | | | | 0 | 0 | 124 | 0 | 0 |
| PHX | PHX | DL | 757 | 184 | | 1.0 | | | | | 0 | 184 | 0 | 0 | 0 |
| PHX | PHX | DL | 753 | 223 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 223 |
| PHX | PHX | DL | 76D | 262 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | 321 | 180 | | | | 4.0 | 4.0 | | 0 | 0 | 0 | 720 | 720 |
| PHX | PHX | DL | NGD | 225 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | 752 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PHX | PHX | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 10.0 | 13.0 | 15.0 | 16.0 | 18.0 | 1479 | 1964 | 2222 | 2548 | 2945 |
| Peroia | | | | | | | | | | | Target Seat Depar | 99 | 107 | 118 | 130 |
| PIA | PIA | DL | SF3 | 34 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIA | PIA | DL | CR9 | 76 | | | | 1.0 | 1.0 | | 0 | 0 | 0 | 76 | 76 |
| PIA | PIA | DL | CRJ | 50 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | | 100 | 100 | 100 | 50 | 50 |
| | | | Subtotal | | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 100 | 100 | 100 | 126 | 126 |
| Pierre | | | | | | | | | | | Target Seat Depar | 59 | 65 | 72 | 81 |
| PIR | PIR | DL | CRJ | 50 | | | | 0.3 | 1.6 | | 0 | 0 | 0 | 15 | 80 |
| PIR | PIR | DL | SF3 | 34 | 2.0 | 2.0 | 2.0 | 1.7 | | | 68 | 68 | 68 | 58 | 0 |
| | | | Subtotal | | | 2.0 | 2.0 | 2.0 | 1.6 | | 68 | 68 | 68 | 73 | 80 |
| Pittsburgh | | | | | | | | | | | Target Seat Depar | 394 | 429 | 474 | 523 |
| PIT | PIT | DL | CRJ | 50 | 1.0 | 2.0 | | | | | 50 | 100 | 0 | 0 | 0 |
| PIT | PIT | DL | E75 | 76 | | 1.0 | 2.0 | 2.0 | 3.0 | | 0 | 76 | 152 | 152 | 228 |
| PIT | PIT | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | 738 | 160 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| PIT | PIT | DL | 319 | 124 | 1.0 | | 1.0 | 2.0 | | | 124 | 0 | 124 | 248 | 0 |
| PIT | PIT | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | 320 | 148 | | 1.0 | | | 1.0 | | 0 | 148 | 0 | 0 | 148 |
| PIT | PIT | DL | M90 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|-------------------------|--------|-------|----------|-------|-------|---------------------------|------|------|------|------|--------------------------|------|------|------|------|
| | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| PIT | PIT | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | CR7 | 70 | 1.0 | | | | | | 70 | 0 | 0 | 0 | 0 |
| PIT | PIT | DL | CR9 | 76 | 2.0 | 1.0 | 2.0 | 1.0 | | | 152 | 76 | 152 | 76 | 0 |
| PIT | PIT | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 396 | 400 | 428 | 476 | 536 |
| Emmet County, MI | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| PLN | PLN | DL | SF3 | 34 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PLN | PLN | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Pensacola | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| PNS | PNS | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PNS | PNS | DL | E75 | 76 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Pasco | | | | | | | | | | | Target Seat Depar | 101 | 116 | 138 | 162 |
| PSC | PSC | DL | E75 | 76 | | 0.4 | 0.2 | | 1.7 | | 0 | 30 | 15 | 0 | 129 |
| PSC | PSC | DL | 319 | 124 | | | 0.6 | 0.8 | 0.3 | | 0 | 74 | 99 | 74 | 37 |
| PSC | PSC | DL | 320 | 148 | | | | 0.4 | | | 0 | 0 | 0 | 59 | 0 |
| PSC | PSC | DL | CR9 | 76 | 1.0 | | | | | | 76 | 0 | 0 | 0 | 0 |
| PSC | PSC | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 76 | 105 | 114 | 134 | 166 |
| Palm Springs | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| PSP | PSP | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PSP | PSP | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PSP | PSP | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PSP | PSP | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PSP | PSP | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PSP | PSP | SY | 73G | 129 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Providence | | | | | | | | | | | Target Seat Depar | 148 | 162 | 181 | 201 |
| PVD | PVD | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | CR9 | 76 | | 1.0 | 1.0 | 1.0 | 1.0 | | 0 | 76 | 76 | 76 | 76 |
| PVD | PVD | DL | CRJ | 50 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | CR7 | 70 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | M90 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | 319 | 124 | 1.0 | | | 0.6 | 1.0 | | 124 | 0 | 0 | 74 | 124 |
| PVD | PVD | DL | M88 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVD | PVD | DL | E75 | 76 | | 1.0 | 1.0 | 0.4 | | | 0 | 76 | 76 | 30 | 0 |
| | | | Subtotal | | | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 124 | 152 | 152 | 181 | 200 |
| Portland, ME | | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 98 |
| PWM | PWM | DL | CR9 | 76 | | | | | 0.6 | | 0 | 0 | 0 | 0 | 46 |
| PWM | PWM | DL | 319 | 124 | | | | | 0.4 | | 0 | 0 | 0 | 0 | 50 |
| | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0 | 0 | 0 | 0 | 95 |
| Rapid City | | | | | | | | | | | Target Seat Depar | 432 | 479 | 541 | 611 |
| RAP | RAP | DL | CR9 | 76 | | 1.0 | 2.0 | | 2.0 | | 0 | 76 | 152 | 0 | 152 |
| RAP | RAP | DL | CRJ | 50 | 4.0 | 2.0 | 1.0 | 2.0 | | | 200 | 100 | 50 | 100 | 0 |
| RAP | RAP | DL | M80 | 149 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| RAP | RAP | DL | D9S | 100 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| RAP | RAP | DL | 319 | 124 | 1.0 | 2.0 | 1.0 | 1.0 | | | 124 | 248 | 124 | 124 | 0 |
| RAP | RAP | DL | M90 | 160 | | | 1.0 | 2.0 | 2.0 | | 0 | 0 | 160 | 320 | 320 |
| RAP | RAP | DL | D95 | 125 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| RAP | RAP | DL | 320 | 148 | | | | | 1.0 | | 0 | 0 | 0 | 0 | 148 |
| | | | Subtotal | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 324 | 424 | 486 | 544 | 620 |
| Raleigh-Durham | | | | | | | | | | | Target Seat Depar | 384 | 445 | 527 | 621 |
| RDU | RDU | DL | CR9 | 76 | 2.0 | 1.0 | | | | | 152 | 76 | 0 | 0 | 0 |
| RDU | RDU | DL | M80 | 149 | | 1.0 | 2.0 | | | | 0 | 149 | 298 | 0 | 0 |
| RDU | RDU | DL | M90 | 160 | | 1.0 | | 1.0 | 1.0 | | 0 | 160 | 0 | 160 | 160 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | | |
|---------------------------------|--------|----------|---------|-------|-------|---------------------------|------|-----------------|------|--------------------------|------------|------------|-----------------|------------|------|------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | 2025 | 2030 |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | | |
| RDU | RDU | DL | 320 | 148 | 1.0 | | 1.0 | | 1.0 | 148 | 0 | 148 | 0 | 148 | | |
| RDU | RDU | DL | 319 | 124 | 1.0 | | | 3.0 | | 124 | 0 | 0 | 372 | 0 | | |
| RDU | RDU | DL | 738 | 160 | | | | | 2.0 | 0 | 0 | 0 | 0 | 320 | | |
| RDU | RDU | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RDU | RDU | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RDU | RDU | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RDU | RDU | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RDU | RDU | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RDU | RDU | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 4.0 | 3.0 | 3.0 | 4.0 | 4.0 | 424 | 385 | 446 | 532 | 628 | | |
| Greater Rockford Airport | | | | | | | | | | Target Seat Depar | 0 | 1 | 1 | 1 | | |
| RFD | RFD | SY | 738 | 162 | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 1 | 1 | 1 | | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 1 | 1 | 1 | | |
| Rhineland | | | | | | | | | | Target Seat Depar | 135 | 149 | 167 | 188 | | |
| RHI | RHI | DL | SF3 | 34 | 4.0 | 1.0 | | | | 136 | 34 | 0 | 0 | 0 | | |
| RHI | RHI | DL | CRJ | 50 | | 2.0 | 3.0 | 2.0 | 2.0 | 0 | 100 | 150 | 100 | 100 | | |
| RHI | RHI | DL | CR9 | 76 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 76 | 76 | | |
| | | Subtotal | | | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 136 | 134 | 150 | 176 | 176 | | |
| Richmond | | | | | | | | | | Target Seat Depar | 81 | 92 | 106 | 123 | | |
| RIC | RIC | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RIC | RIC | DL | 319 | 124 | | | 0.3 | 0.6 | 1.0 | 0 | 0 | 37 | 74 | 124 | | |
| RIC | RIC | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RIC | RIC | DL | E75 | 76 | 1.0 | 1.0 | 0.7 | 0.4 | | 76 | 76 | 53 | 30 | 0 | | |
| | | Subtotal | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 76 | 76 | 90 | 105 | 124 | | |
| Reno | | | | | | | | | | Target Seat Depar | 132 | 149 | 173 | 200 | | |
| RNO | RNO | DL | 320 | 148 | | | 1.0 | | | 0 | 0 | 148 | 0 | 0 | | |
| RNO | RNO | DL | 319 | 124 | | 1.0 | | | | 0 | 124 | 0 | 0 | 0 | | |
| RNO | RNO | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RNO | RNO | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RNO | RNO | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RNO | RNO | DL | 321 | 180 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 180 | 180 | | |
| RNO | RNO | SY | 738 | 162 | | | | | 0.1 | 0 | 0 | 0 | 0 | 16 | | |
| | | Subtotal | | | 0.0 | 1.0 | 1.0 | 1.0 | 1.1 | 0 | 124 | 148 | 180 | 196 | | |
| Roanoke | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | | |
| ROA | ROA | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | |
| Rochester, NY | | | | | | | | | | Target Seat Depar | 95 | 104 | 114 | 125 | | |
| ROC | ROC | DL | CRJ | 50 | 1.0 | | | | | 50 | 0 | 0 | 0 | 0 | | |
| ROC | ROC | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| ROC | ROC | DL | CR9 | 76 | | 0.6 | 0.4 | 0.2 | | 0 | 46 | 30 | 15 | 0 | | |
| ROC | ROC | DL | 319 | 124 | | 0.4 | 0.6 | 0.8 | 1.0 | 0 | 50 | 74 | 99 | 124 | | |
| ROC | ROC | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 50 | 95 | 105 | 114 | 124 | | |
| Rochester, MN | | | | | | | | | | Target Seat Depar | 246 | 267 | 307 | 353 | | |
| RST | RST | DL | CRJ | 50 | 4.0 | 5.0 | 4.0 | 3.0 | 3.0 | 200 | 250 | 200 | 150 | 150 | | |
| RST | RST | DL | CR7 | 70 | | | 1.0 | | | 0 | 0 | 70 | 0 | 0 | | |
| RST | RST | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RST | RST | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RST | RST | DL | SF3 | 34 | 1.0 | | | | | 34 | 0 | 0 | 0 | 0 | | |
| RST | RST | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RST | RST | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RST | RST | DL | 319 | 124 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 0 | 124 | | |
| RST | RST | DL | CR9 | 76 | | | | 2.0 | 1.0 | 0 | 0 | 0 | 152 | 76 | | |
| RST | RST | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 234 | 250 | 270 | 302 | 350 | | |
| Fort Myers | | | | | | | | | | Target Seat Depar | 194 | 217 | 259 | 309 | | |
| RSW | RSW | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 | | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | | |
|--------------------|--------|-------|---------|-------|-------|---------------------------|------|-----------------|------|--------------------------|------|------|-----------------|------|------|------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | 2025 | 2030 |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | | |
| RSW | RSW | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | DL | 757 | 184 | | 1.0 | | | | 0 | 184 | 0 | 0 | 0 | | |
| RSW | RSW | DL | 320 | 148 | 1.0 | | | | 1.0 | 148 | 0 | 0 | 0 | 148 | | |
| RSW | RSW | DL | 319 | 124 | | | 1.8 | 2.0 | | 0 | 0 | 223 | 248 | 0 | | |
| RSW | RSW | DL | 738 | 160 | | | | | 1.0 | 0 | 0 | 0 | 0 | 160 | | |
| RSW | RSW | DL | 321 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | SY | 737 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| RSW | RSW | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| Subtotal | | | | | 1.0 | 1.0 | 1.8 | 2.0 | 2.0 | 148 | 184 | 223 | 248 | 308 | | |
| San Diego | | | | | | | | | | Target Seat Depar | | | | | | |
| SAN | SAN | DL | 757 | 184 | | | 1.0 | | | 0 | 813 | 874 | 997 | 1137 | | |
| SAN | SAN | DL | 320 | 148 | 1.0 | 1.0 | | | | 148 | 148 | 0 | 0 | 0 | | |
| SAN | SAN | DL | 319 | 124 | | | | | 1.0 | 0 | 0 | 0 | 0 | 124 | | |
| SAN | SAN | DL | 738 | 160 | 1.0 | 2.0 | 2.0 | 2.0 | 2.0 | 160 | 320 | 320 | 320 | 320 | | |
| SAN | SAN | DL | 321 | 180 | | | | 2.0 | 3.0 | 0 | 0 | 0 | 360 | 540 | | |
| SAN | SAN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAN | SAN | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAN | SAN | DL | M90 | 160 | 2.0 | 2.0 | 2.0 | 1.0 | | 320 | 320 | 320 | 160 | 0 | | |
| SAN | SAN | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAN | SAN | WN | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAN | SAN | SY | 737 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAN | SAN | SY | 738 | 162 | | 0.2 | 0.3 | 1.0 | 1.0 | 0 | 32 | 49 | 162 | 162 | | |
| SAN | SAN | SY | 73G | 129 | 1.0 | | | | | 129 | 0 | 0 | 0 | 0 | | |
| Subtotal | | | | | 5.0 | 5.2 | 5.3 | 6.0 | 7.0 | 757 | 820 | 873 | 1002 | 1146 | | |
| San Antonio | | | | | | | | | | Target Seat Depar | | | | | | |
| SAT | SAT | DL | NGA | 120 | | | | | | 0 | 251 | 288 | 338 | 394 | | |
| SAT | SAT | DL | E75 | 76 | 2.0 | | | 3.0 | 3.0 | 152 | 0 | 0 | 228 | 228 | | |
| SAT | SAT | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAT | SAT | DL | M90 | 160 | | | 1.0 | | | 0 | 0 | 160 | 0 | 0 | | |
| SAT | SAT | DL | 319 | 124 | 1.0 | 2.0 | 1.0 | 1.0 | | 124 | 248 | 124 | 124 | 0 | | |
| SAT | SAT | DL | 738 | 160 | | | | | 1.0 | 0 | 0 | 0 | 0 | 160 | | |
| SAT | SAT | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAT | SAT | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAT | SAT | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SAT | SAT | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| Subtotal | | | | | 3.0 | 2.0 | 2.0 | 4.0 | 4.0 | 276 | 248 | 284 | 352 | 388 | | |
| Savannah | | | | | | | | | | Target Seat Depar | | | | | | |
| SAV | SAV | DL | 319 | 124 | | | | | 0.8 | 0 | 0 | 0 | 0 | 99 | | |
| SAV | SAV | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0 | 0 | 0 | 0 | 99 | | |
| South Bend | | | | | | | | | | Target Seat Depar | | | | | | |
| SBN | SBN | DL | CRJ | 50 | 2.0 | 0.4 | 0.3 | | | 100 | 20 | 15 | 0 | 0 | | |
| SBN | SBN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SBN | SBN | DL | E75 | 76 | | 0.6 | 0.7 | 1.0 | 1.0 | 0 | 46 | 53 | 76 | 76 | | |
| Subtotal | | | | | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 | 100 | 66 | 68 | 76 | 76 | | |
| Louisville | | | | | | | | | | Target Seat Depar | | | | | | |
| SDF | SDF | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | CR7 | 70 | 1.0 | | | | | 70 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | E75 | 76 | 1.0 | 1.0 | 3.0 | 2.0 | 4.0 | 76 | 76 | 228 | 152 | 304 | | |
| SDF | SDF | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | D9S | 125 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | 319 | 124 | | | | 1.0 | | 0 | 0 | 0 | 124 | 0 | | |
| SDF | SDF | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SDF | SDF | DL | M80 | 149 | | 1.0 | | | | 0 | 149 | 0 | 0 | 0 | | |
| Subtotal | | | | | 4.0 | 2.0 | 3.0 | 3.0 | 4.0 | 246 | 225 | 228 | 276 | 304 | | |
| Seattle | | | | | | | | | | Target Seat Depar | | | | | | |
| SEA | SEA | NW | 747 | 349 | | | | | | 0 | 2510 | 2594 | 2804 | 2839 | | |
| SEA | SEA | NW | 757 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | |
|----------------------------|--------|-------|---------|-------|-------|---------------------------|------|------|------|--------------------------|-------------|-------------|-------------|-------------|
| | | | | | | EA Analysis Pd. | | | | EA Analysis Pd. | | | | |
| | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 |
| SEA | SEA | NW | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | NW | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | NW | 333 | 298 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | NW | 753 | 224 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | AS | 738 | 160 | | 3.0 | 4.0 | 5.0 | 5.0 | 0 | 480 | 640 | 800 | 800 |
| SEA | SEA | AS | 73G | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | AS | 739 | 172 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | AS | 738 | 160 | 2.0 | | | | | 320 | 0 | 0 | 0 | 0 |
| SEA | SEA | WN | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | 738 | 160 | | | 1.0 | 2.0 | 2.0 | 0 | 0 | 160 | 320 | 320 |
| SEA | SEA | DL | 753 | 223 | 6.0 | 6.0 | 5.0 | 5.0 | 5.0 | 1338 | 1338 | 1115 | 1115 | 1115 |
| SEA | SEA | DL | 757 | 184 | 2.0 | 2.0 | 2.0 | | | 368 | 368 | 368 | 0 | 0 |
| SEA | SEA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | 76D | 262 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | 321 | 180 | | | 1.0 | 1.0 | | 0 | 0 | 0 | 180 | 180 |
| SEA | SEA | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SEA | SEA | SY | 738 | 162 | 1.0 | 2.0 | 2.0 | | 1.0 | 162 | 324 | 324 | 0 | 162 |
| SEA | SEA | SY | 73G | 129 | 1.0 | | 3.0 | 2.0 | | 129 | 0 | 0 | 387 | 258 |
| Subtotal | | | | | 12.0 | 13.0 | 14.0 | 16.0 | 16.0 | 2317 | 2510 | 2607 | 2802 | 2835 |
| SFO - San Francisco | | | | | | | | | | Target Seat Depar | 2205 | 2393 | 2762 | 3276 |
| OAK | SFO | B6 | 320 | 156 | | | | | | 0 | 0 | 0 | 0 | 0 |
| OAK | SFO | WN | 73G | 137 | | | 2.0 | 2.0 | | 0 | 0 | 0 | 274 | 274 |
| SJC | SFO | DL | 320 | 148 | | | | 1.0 | | 0 | 0 | 0 | 0 | 148 |
| SJC | SFO | DL | 319 | 124 | 1.0 | 2.0 | 2.0 | 1.0 | | 0 | 124 | 248 | 248 | 124 |
| SJC | SFO | DL | 738 | 160 | | | | 1.0 | | 0 | 0 | 0 | 0 | 160 |
| SJC | SFO | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJC | SFO | DL | NGB | 150 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJC | SFO | DL | 321 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJC | SFO | DL | M90 | 160 | 2.0 | 2.0 | 2.0 | 2.0 | | 320 | 320 | 320 | 320 | 320 |
| SJC | SFO | SY | 73G | 129 | | | 1.0 | 1.0 | | 0 | 0 | 0 | 129 | 129 |
| SFO | SFO | DL | 320 | 148 | 2.0 | | | | | 296 | 0 | 0 | 0 | 0 |
| SFO | SFO | DL | 319 | 124 | 1.0 | 2.0 | | | | 124 | 248 | 0 | 0 | 0 |
| SFO | SFO | DL | 753 | 223 | 2.0 | 2.0 | 2.0 | 1.0 | 1.0 | 446 | 446 | 446 | 223 | 223 |
| SFO | SFO | DL | 738 | 160 | 1.0 | | 3.0 | 3.0 | 3.0 | 160 | 0 | 480 | 480 | 480 |
| SFO | SFO | DL | 757 | 184 | 1.0 | 1.0 | | | | 184 | 184 | 0 | 0 | 0 |
| SFO | SFO | DL | 321 | 180 | | | 2.0 | 3.0 | | 0 | 0 | 0 | 360 | 540 |
| SFO | SFO | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SFO | SFO | DL | 76D | 262 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SFO | SFO | DL | M90 | 160 | | 3.0 | 3.0 | 2.0 | 1.0 | 0 | 480 | 480 | 320 | 160 |
| SFO | SFO | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SFO | SFO | SY | 738 | 162 | 1.0 | 1.0 | 1.0 | 1.0 | 2.0 | 162 | 162 | 162 | 162 | 324 |
| SFO | SFO | SY | 73G | 129 | | | 1.0 | 1.0 | | 0 | 0 | 0 | 0 | 0 |
| SFO | SFO | UA | 320 | 144 | | | 1.0 | 1.0 | 2.0 | 0 | 0 | 144 | 144 | 288 |
| SFO | SFO | UA | 319 | 120 | 1.0 | 2.0 | 1.0 | 1.0 | 1.0 | 120 | 240 | 120 | 120 | 120 |
| Subtotal | | | | | 11.0 | 14.0 | 15.0 | 18.0 | 21.0 | 1812 | 2204 | 2400 | 2780 | 3290 |
| Springfield, MO | | | | | | | | | | Target Seat Depar | 118 | 133 | 153 | 176 |
| SGF | SGF | DL | CRJ | 50 | 1.0 | 1.0 | 1.0 | 2.0 | | 50 | 50 | 50 | 0 | 100 |
| SGF | SGF | DL | CR9 | 76 | | 1.0 | 1.0 | 2.0 | 1.0 | 0 | 76 | 76 | 152 | 76 |
| SGF | SGF | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| BKG | SGF | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 1.0 | 2.0 | 2.0 | 2.0 | 3.0 | 50 | 126 | 126 | 152 | 176 |
| San Juan | | | | | | | | | | Target Seat Depar | 7 | 7 | 8 | 9 |
| SJU | SJU | DL | 757 | 184 | | 0.0 | 0.0 | 0.0 | | 0 | 7 | 7 | 7 | 0 |
| SJU | SJU | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJU | SJU | DL | 321 | 180 | | | | 0.0 | | 0 | 0 | 0 | 0 | 7 |
| SJU | SJU | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 7 | 7 | 7 | 7 |
| Salt Lake City | | | | | | | | | | Target Seat Depar | 1076 | 1170 | 1353 | 1563 |
| SLC | SLC | DL | 733 | 128 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SLC | SLC | DL | M90 | 160 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 320 | 320 | 320 | 320 | 160 |
| SLC | SLC | DL | 738 | 160 | | 2.0 | 3.0 | 2.0 | 2.0 | 0 | 320 | 480 | 320 | 320 |
| SLC | SLC | DL | 757 | 184 | 1.0 | 1.0 | 2.0 | | | 184 | 184 | 368 | 0 | 0 |
| SLC | SLC | DL | 320 | 148 | 2.0 | | | | | 296 | 0 | 0 | 0 | 0 |
| SLC | SLC | DL | 319 | 124 | | 2.0 | | | | 0 | 248 | 0 | 0 | 0 |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. | Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | AWDPM Seat Departures | | | | | |
|------------------------|--------|----------|---------|-------|-------|---------------------------|------|-----------------|------|--------------------------|-------------|-------------|-----------------|-------------|------|
| | | | | | | 2010 | 2016 | EA Analysis Pd. | | 2030 | 2010 | 2016 | EA Analysis Pd. | | 2030 |
| | | | | | | | | 2020 | 2025 | | | | 2020 | 2025 | |
| SLC | SLC | DL | 321 | 180 | | | 4.0 | 6.0 | 0 | 0 | 0 | 720 | 1080 | | |
| SLC | SLC | DL | NGD | 225 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | CR7 | 70 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | CRJ | 50 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | CRJ | 50 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | CR7 | 70 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | CR9 | 76 | 1.0 | | | | 76 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | 738 | 160 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SLC | SLC | DL | M88 | 142 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 6.0 | 7.0 | 7.0 | 8.0 | 9.0 | 876 | 1072 | 1168 | 1360 | 1560 | |
| Sacramento | | | | | | | | | | Target Seat Depar | 517 | 559 | 642 | 736 | |
| SMF | SMF | DL | 738 | 160 | | | 3.0 | 2.0 | 0 | 0 | 0 | 480 | 320 | | |
| SMF | SMF | DL | 757 | 184 | | 2.0 | | | 0 | 368 | 0 | 0 | 0 | | |
| SMF | SMF | DL | 321 | 180 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| SMF | SMF | DL | 320 | 148 | 1.0 | | 1.0 | 2.0 | 148 | 0 | 148 | 0 | 296 | | |
| SMF | SMF | DL | 319 | 124 | | | 2.0 | 1.0 | 0 | 0 | 248 | 0 | 124 | | |
| SMF | SMF | DL | M90 | 160 | 2.0 | 1.0 | 1.0 | 1.0 | 320 | 160 | 160 | 160 | 0 | | |
| | | Subtotal | | | 3.0 | 3.0 | 4.0 | 4.0 | 5.0 | 468 | 528 | 556 | 640 | 740 | |
| Springfield, IL | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 49 | |
| SPI | SPI | DL | CRJ | 50 | | | | | 1.0 | 0 | 0 | 0 | 50 | | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0 | 0 | 0 | 50 | | |
| Sarasota | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 | |
| SRQ | SRQ | DL | 319 | 124 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | | |
| Saint Cloud | | | | | | | | | | Target Seat Depar | 1 | 1 | 1 | 1 | |
| STC | STC | DL | CRJ | 50 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STC | STC | DL | SF3 | 34 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STC | STC | DL | NGT | 50 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STC | STC | SY | 738 | 162 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | | |
| St. Louis | | | | | | | | | | Target Seat Depar | 1275 | 1342 | 1489 | 1652 | |
| STL | STL | AA | M80 | 140 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | AA | 738 | 160 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | AA | ER4 | 50 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | AA | ERD | 44 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | WN | 717 | 122 | | 1.0 | 1.0 | | 0 | 122 | 122 | 0 | 0 | | |
| STL | STL | WN | 73G | 137 | 1.0 | 2.0 | 3.0 | 5.0 | 137 | 274 | 411 | 685 | 685 | | |
| STL | STL | WN | 733 | 137 | 2.0 | 1.0 | | | 274 | 137 | 0 | 0 | 0 | | |
| STL | STL | WN | 735 | 122 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | CRJ | 50 | | 1.0 | | | 0 | 50 | 0 | 0 | 0 | | |
| STL | STL | DL | CR7 | 70 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | CR9 | 76 | 2.0 | | 1.0 | 1.0 | 152 | 0 | 76 | 76 | 0 | | |
| STL | STL | DL | D9S | 100 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | 319 | 124 | | 2.0 | 1.0 | 1.0 | 0 | 248 | 124 | 124 | 0 | | |
| STL | STL | DL | M80 | 149 | | 3.0 | 2.0 | 2.0 | 0 | 447 | 298 | 298 | 0 | | |
| STL | STL | DL | M90 | 160 | | | 2.0 | 2.0 | 2.0 | 0 | 0 | 320 | 320 | | |
| STL | STL | DL | 321 | 180 | | | | 1.0 | 0 | 0 | 0 | 0 | 180 | | |
| STL | STL | DL | 738 | 160 | | | | 2.0 | 0 | 0 | 0 | 0 | 320 | | |
| STL | STL | DL | D95 | 125 | 3.0 | | | | 375 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | 320 | 148 | 1.0 | | | 1.0 | 148 | 0 | 0 | 0 | 148 | | |
| STL | STL | DL | 753 | 223 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | 738 | 160 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | M88 | 142 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | D94 | 125 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| STL | STL | DL | E75 | 76 | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | | Subtotal | | | 9.0 | 10.0 | 10.0 | 11.0 | 11.0 | 1086 | 1278 | 1351 | 1503 | 1653 | |
| St. Thomas | | | | | | | | | | Target Seat Depar | 2 | 2 | 2 | 2 | |
| STT | STT | SY | 738 | 162 | | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2 | 2 | 2 | 2 | |
| | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 2 | 2 | 2 | 2 | |

Table 5.8

MSP Domestic Departure Projections by Market

| Airport | Market | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|--------------------------|--------|---------------|-------|-------|---------------------------|------|------|------|------|--------------------------|------------|------------|------------|------------|
| | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Sioux City | | | | | | | | | | Target Seat Depar | 165 | 171 | 187 | 204 |
| SUX | SUX | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SUX | SUX | DL | CR9 | 76 | | 1.0 | 1.0 | 1.0 | 2.0 | 0 | 76 | 76 | 76 | 152 |
| SUX | SUX | DL | CRJ | 50 | 3.0 | 2.0 | 2.0 | 2.0 | 1.0 | 150 | 100 | 100 | 100 | 50 |
| SUX | SUX | DL | D9S | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 | 150 | 176 | 176 | 176 | 202 |
| Syracuse | | | | | | | | | | Target Seat Depar | 98 | 106 | 115 | 125 |
| SYR | SYR | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| SYR | SYR | DL | 319 | 124 | | 0.4 | 0.6 | 1.0 | 1.0 | 0 | 50 | 74 | 124 | 124 |
| SYR | SYR | DL | CR9 | 76 | | 0.6 | 0.4 | | | 0 | 46 | 30 | 0 | 0 |
| Subtotal | | | | | 0.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 95 | 105 | 124 | 124 |
| Toledo | | | | | | | | | | Target Seat Depar | 110 | 117 | 126 | 137 |
| TOL | TOL | DL | CR9 | 76 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 76 | 76 | 76 |
| TOL | TOL | DL | CRJ | 50 | | 2.0 | 1.0 | 1.0 | 1.0 | 0 | 100 | 50 | 50 | 50 |
| Subtotal | | | | | 0.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 100 | 126 | 126 | 126 |
| TPA - Tampa | | | | | | | | | | Target Seat Depar | 362 | 391 | 448 | 514 |
| PIE | TPA | SY | 738 | 162 | | 0.3 | 0.3 | 0.3 | 0.3 | 0 | 49 | 49 | 49 | 49 |
| TPA | TPA | FL | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | WN | 73G | 137 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | 757 | 184 | | | 1.0 | | | 0 | 0 | 184 | 0 | 0 |
| TPA | TPA | DL | 320 | 148 | 2.0 | | | 1.0 | 1.0 | 296 | 0 | 0 | 148 | 148 |
| TPA | TPA | DL | 319 | 124 | | | | 2.0 | | 0 | 0 | 0 | 248 | 0 |
| TPA | TPA | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | 738 | 160 | | 2.0 | 1.0 | | 2.0 | 0 | 320 | 160 | 0 | 320 |
| TPA | TPA | DL | 321 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | M90 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TPA | TPA | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 2.0 | 2.3 | 2.3 | 3.3 | 3.3 | 296 | 369 | 393 | 445 | 517 |
| Tulsa | | | | | | | | | | Target Seat Depar | 111 | 117 | 131 | 147 |
| TUL | TUL | DL | CRJ | 50 | 3.0 | 2.0 | 1.0 | 1.0 | | 150 | 100 | 50 | 50 | 0 |
| TUL | TUL | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TUL | TUL | DL | CR9 | 76 | | | 1.0 | 1.0 | 2.0 | 0 | 0 | 76 | 76 | 152 |
| Subtotal | | | | | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 150 | 100 | 126 | 126 | 152 |
| Tucson | | | | | | | | | | Target Seat Depar | 140 | 154 | 179 | 208 |
| TUS | TUS | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TUS | TUS | DL | 319 | 124 | 1.0 | | | | 1.7 | 124 | 0 | 0 | 0 | 211 |
| TUS | TUS | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TUS | TUS | DL | M80 | 149 | | 1.0 | 1.0 | | | 0 | 149 | 149 | 0 | 0 |
| TUS | TUS | DL | 321 | 180 | | | | 1.0 | | 0 | 0 | 0 | 180 | 0 |
| TUS | TUS | DL | M88 | 142 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TUS | TUS | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TUS | TUS | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.7 | 124 | 149 | 149 | 180 | 211 |
| Traverse City | | | | | | | | | | Target Seat Depar | 223 | 236 | 264 | 295 |
| TVC | TVC | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| TVC | TVC | DL | 320 | 148 | | | | 1.0 | 2.0 | 0 | 0 | 0 | 148 | 296 |
| TVC | TVC | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TVC | TVC | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TVC | TVC | DL | 319 | 124 | 1.0 | 2.0 | 2.0 | 1.0 | | 124 | 248 | 248 | 124 | 0 |
| Subtotal | | | | | 3.0 | 2.0 | 2.0 | 2.0 | 2.0 | 224 | 248 | 248 | 272 | 296 |
| Thief River Falls | | | | | | | | | | Target Seat Depar | 0 | 0 | 0 | 0 |
| TVF | TVF | NW | SF3 | 33 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TVF | TVF | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 |
| TVF | TVF | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |

Table 5.9

**MSP Domestic Air Carrier Fleet Mix by Carrier
Scheduled Average weekday Peak Month Departures**

| Carrier | Equipment | 2010 | 2016 | EA Analysis Period | | Long Term |
|----------|-----------|-------|-------|--------------------|-------|-----------|
| | | | | 2020 | 2025 | 2030 |
| AA | 100 | | | | | |
| | 738 | 4.0 | 5.0 | 6.0 | 11.0 | 18.0 |
| | CR7 | 4.0 | 7.0 | 7.0 | 6.0 | 5.0 |
| | ER4 | | | | | |
| | ERD | | | | | |
| | M80 | 5.0 | 7.0 | 7.0 | 4.0 | |
| | M83 | 2.0 | | | | |
| AA Total | | 15.0 | 19.0 | 20.0 | 21.0 | 23.0 |
| AS | 738 | 2.0 | 3.0 | 6.0 | 9.0 | 9.0 |
| | 739 | | 1.0 | | | |
| | 73G | | | 2.0 | | 2.0 |
| AS Total | | 2.0 | 4.0 | 8.0 | 9.0 | 11.0 |
| B6 | 320 | | | | | |
| | E90 | | 4.0 | 7.0 | 9.0 | 10.0 |
| B6 Total | | | 4.0 | 7.0 | 9.0 | 10.0 |
| CH | BEC | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| CH Total | | 1.0 | 0.7 | 0.7 | 0.7 | 0.7 |
| CO | 733 | | | | | |
| | 735 | 1.0 | | | | |
| | 738 | | | | | |
| | ERJ | 15.0 | | | | |
| CO Total | | 16.0 | | | | |
| DL | 319 | 36.0 | 50.4 | 46.2 | 52.5 | 51.5 |
| | 320 | 39.0 | 38.0 | 39.0 | 38.1 | 36.0 |
| | 321 | | | | 27.9 | 59.1 |
| | 332 | | | | | 1.0 |
| | 333 | | 0.9 | 1.0 | 1.0 | 1.2 |
| | 738 | 13.0 | 23.0 | 45.0 | 86.0 | 118.0 |
| | 752 | | | | | |
| | 753 | 18.0 | 19.0 | 16.0 | 17.0 | 16.0 |
| | 757 | 21.0 | 29.0 | 24.1 | 3.0 | |
| | 763 | | | | | |
| | 777 | | | | 1.0 | 1.0 |
| | 76D | | 1.6 | 1.6 | 2.7 | 3.8 |
| | CR7 | 9.0 | 5.0 | 5.6 | 6.0 | 6.0 |
| | CR9 | 40.0 | 41.7 | 64.6 | 65.6 | 66.2 |
| | CRJ | 121.0 | 92.7 | 81.1 | 80.6 | 81.6 |
| | D94 | | | | | |
| | D95 | 31.0 | | | | |
| | D9S | | | | | |
| | E75 | 54.0 | 59.2 | 71.4 | 75.0 | 74.1 |
| | ER4 | 2.0 | | | | |
| M80 | 3.0 | 34.2 | 25.3 | 7.0 | | |
| M88 | 8.0 | | | | | |
| M90 | 30.0 | 42.0 | 55.0 | 53.3 | 50.4 | |
| SF3 | 44.0 | 27.9 | 20.0 | 13.9 | | |
| DL Total | | 469.0 | 464.6 | 495.9 | 530.6 | 565.9 |
| F9 | 318 | 1.0 | | | | |
| | 319 | 3.0 | 3.0 | 3.0 | 3.0 | 3.0 |
| | 320 | | 6.0 | 5.0 | 5.0 | 6.0 |

Table 5.9

**MSP Domestic Air Carrier Fleet Mix by Carrier
Scheduled Average weekday Peak Month Departures**

| Carrier | Equipment | 2010 | 2016 | EA Analysis Period | | Long Term |
|----------|-----------|-------|-------|--------------------|-------|-----------|
| | | | | 2020 | 2025 | 2030 |
| F9 | CS3 | | | 3.0 | 5.0 | 6.0 |
| | E70 | | 2.0 | 2.0 | 1.0 | 1.0 |
| | E90 | 1.0 | | | | |
| | ERJ | | 1.0 | | | |
| F9 Total | | 5.0 | 12.0 | 13.0 | 14.0 | 16.0 |
| FL | 717 | 4.0 | | | | |
| | 73G | 3.0 | | | | |
| FL Total | | 7.0 | | | | |
| SY | 737 | | | | | |
| | 738 | 6.0 | 10.4 | 11.8 | 15.7 | 19.2 |
| | 73G | 6.0 | 4.9 | 4.4 | 9.6 | 12.7 |
| SY Total | | 12.0 | 15.3 | 16.2 | 25.3 | 31.9 |
| UA | 319 | 3.0 | 5.0 | 7.0 | 6.0 | 5.0 |
| | 320 | 7.0 | 7.0 | 8.0 | 11.0 | 11.0 |
| | 738 | | 7.0 | 8.0 | 11.0 | 16.0 |
| | 752 | | | | | |
| | E70 | 8.0 | 8.0 | 6.0 | 4.0 | 4.0 |
| | ER4 | | 14.0 | 13.0 | 13.0 | 12.0 |
| UA Total | | 18.0 | 41.0 | 42.0 | 45.0 | 48.0 |
| US | 319 | 5.0 | 4.0 | 3.0 | 4.0 | 4.0 |
| | 320 | 4.0 | 4.0 | 3.0 | 4.0 | 5.0 |
| | 321 | 1.0 | 1.0 | 3.0 | 4.0 | 5.0 |
| | E70 | | | | | |
| | E75 | 2.0 | 3.0 | 2.0 | 1.0 | 1.0 |
| | E90 | | 1.0 | 3.0 | 2.0 | 2.0 |
| | ERJ | | | | | |
| US Total | | 12.0 | 13.0 | 14.0 | 15.0 | 17.0 |
| WN | 717 | | 4.0 | 4.0 | | |
| | 733 | 8.0 | 12.0 | | | |
| | 735 | | | | | |
| | 738 | | | 1.0 | 2.0 | 2.0 |
| | 73G | 6.0 | 16.0 | 34.0 | 44.0 | 48.0 |
| WN Total | | 14.0 | 32.0 | 39.0 | 46.0 | 50.0 |
| YX | 717 | | | | | |
| | E70 | 2.0 | | | | |
| | ERJ | 3.0 | | | | |
| YX Total | | 5.0 | | | | |
| Total | | 577.0 | 605.7 | 655.9 | 715.7 | 773.6 |

Sources: Table 5.8 and HNTB analysis.

Attachment 6

Detailed International Passenger Forecasts

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Table 6.1

Projected International Passenger Growth Rates for U.S.

| | FAA (a) | Airbus (b) | Boeing (c) | Average |
|-------------------------------|---------|------------|------------|---------|
| U.S. - Canada | 3.4% | | 2.8% | 3.1% |
| U.S. - Mexico/Central America | 4.4% | | 4.1% | 4.2% |
| U.S. - Caribbean | 4.4% | | 4.1% | 4.2% |
| U.S. - South America | 4.4% | | 6.8% | 5.6% |
| U.S. - Europe | 3.9% | 4.0% | 4.3% | 4.1% |
| U.S. - Africa | 3.9% | | 7.3% | 5.6% |
| U.S. - Middle East | 5.4% | 7.1% | 7.2% | 6.6% |
| U.S. - Asia | 5.4% | 5.2% | 5.1% | 5.2% |
| U.S. - Oceania | 5.4% | | 4.9% | 5.1% |

(a) FAA Aerospace Forecasts: Fiscal Year 2010-2030.

(b) Airbus, Global Market Forecast: 2010-2029.

(c) Boeing, Current Market Outlook 2010-2029.

Sources: As noted and HNTB analysis.

Table 6.2

Existing (2009) Breakout of MSP International Originations by World Region

| | US Flag (a) | Foreign Flag (b) | Total |
|-------------|-------------|------------------|---------|
| Canada | | | 107,724 |
| Mexico & CA | | | 248,930 |
| Caribbean | | | 60,010 |
| S America | | | 23,080 |
| Europe | | | 116,087 |
| Africa | | | 2,610 |
| Middle East | | | 4,950 |
| Asia | | | 65,640 |
| Oceania | | | 2,130 |
| US Gateways | | | 13,120 |
| | | | 644,281 |

(a) USDOT, Origin-Destination Survey, as compiled by DataBase Products, inc. Not shown to preserve confidentiality.

(b) Estimated at 90 percent of enplanements. Not shown to preserve confidentiality.

Sources: As noted and HNTB analysis.

Table 6.3

Projected International Passenger Originations at MSP

| | 2009 (a) | 2010 (b) | 2015 (c) | 2016 (c) | EA Analysis Period | | Long Term | U.S. Average (d) | MSP Average (e) |
|-------------------------------|-------------|-------------|-------------|-------------|--------------------|-------------|-------------|---------------------|--------------------|
| | | | | | 2020 (c) | 2025 (c) | 2030 (c) | | |
| Income Growth Rate (f) | | | | | | | | 1.9% | 1.7% |
| Canada | 107,724 | 116,803 | 140,221 | 144,339 | 162,059 | 187,298 | 216,468 | 3.1% | 2.9% |
| U.S. - Mexico/Central America | 248,930 | 272,938 | 346,456 | 360,633 | 423,384 | 517,394 | 632,278 | 4.2% | 4.1% |
| U.S.-Caribbean | 60,010 | 65,798 | 83,521 | 86,938 | 102,066 | 124,729 | 152,424 | 4.2% | 4.1% |
| U.S. South America | 23,080 | 25,634 | 34,704 | 36,593 | 45,233 | 58,955 | 76,840 | 5.6% | 5.4% |
| U.S. - Europe | 116,087 | 127,070 | 159,947 | 166,212 | 193,826 | 234,882 | 284,633 | 4.1% | 3.9% |
| U.S.- Africa | 2,610 | 2,899 | 3,927 | 4,141 | 5,120 | 6,676 | 8,706 | 5.6% | 5.5% |
| U.S. - Middle East | 4,950 | 5,548 | 7,863 | 8,367 | 10,728 | 14,636 | 19,969 | 6.6% | 6.4% |
| U.S.-Asia | 65,640 | 72,652 | 96,669 | 101,577 | 123,831 | 158,624 | 203,195 | 5.2% | 5.1% |
| U.S.- Oceania | 2,130 | 2,356 | 3,122 | 3,277 | 3,982 | 5,080 | 6,481 | 5.1% | 5.0% |
| Other | 13,120 | 14,430 | 18,602 | 19,423 | 23,085 | 28,650 | 35,556 | 4.6% | 4.4% |
| Base (g) | 644,281 | 706,128 | 895,030 | 931,500 | 1,093,314 | 1,336,925 | 1,636,550 | | 4.5% |

(a) Table 6.2.

(b) 2009 geographic breakout applied to 2010 originations.

(c) Assumed to grow at MSP rate from 2009.

(d) Table 6.1.

(e) US average growth rate plus difference between MSP and US income growth rates. Applied to 2010 estimates.

(f) Table 1.8.

(g) Sum of regional forecasts.

Sources: As noted and HNTB analysis.

Table 6.4

Forecast of International Hubbing Ratio at MSP

| Year | Originations (a) | Enplanements (b) | International Hubbing Ratio (c) |
|-----------------------------------|------------------|------------------|---------------------------------|
| 1990 | | 102,673 | |
| 1991 | | 124,125 | |
| 1992 | | 144,255 | |
| 1993 | | 170,544 | |
| 1994 | | 166,114 | |
| 1995 | | 256,669 | |
| 1996 | | 276,575 | |
| 1997 | | 419,048 | |
| 1998 | n/a | 519,395 | |
| 1999 | n/a | 575,079 | |
| 2000 | n/a | 644,096 | |
| 2001 | 544,189 | 558,276 | |
| 2002 | 502,422 | 551,203 | |
| 2003 | 499,471 | 572,691 | |
| 2004 | 595,452 | 677,318 | |
| 2005 | 618,977 | 790,806 | 1.278 |
| 2006 | 654,297 | 692,757 | 1.059 |
| 2007 | 709,046 | 980,460 | 1.383 |
| 2008 | 718,963 | 1,264,507 | 1.759 |
| 2009 | 644,281 | 1,059,969 | 1.645 |
| 2010 | 706,128 | 1,141,442 | 1.556 |
| 2015 | | | 1.488 |
| 2016 | | | 1.468 |
| EA Analysis Period | | | |
| 2020 | | | 1.431 |
| 2025 | | | 1.358 |
| Average Annual Growth Rate | | | |
| 2010-2025 | | | -0.9% |
| Long Term | | | |
| 2030 | | | 1.289 |
| Average Annual Growth Rate | | | |
| 2010-2030 | | | -0.9% |

(a) Table A.2.1.

(b) Table A.2.2.

(c) Table 5.2.

(d) Assumed to change at same rate as domestic hubbing ratio.

Sources: As noted and HNTB analysis.

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term | |
|---|---------------------------|-----------|-----------|-----------|--------------------|-----------|-----------|--------|
| | | | | | 2020 | 2025 | 2030 | |
| Canada (a) | 107,724 | 121,325 | 140,221 | 144,588 | 162,059 | 187,298 | 216,468 | |
| U.S. - Mexico/Central America (a) | 248,930 | 283,506 | 346,456 | 361,842 | 423,384 | 517,394 | 632,278 | |
| U.S.-Caribbean (a) | 60,010 | 68,345 | 83,521 | 87,230 | 102,066 | 124,729 | 152,424 | |
| U.S. South America (a) | 23,080 | 26,627 | 34,704 | 36,810 | 45,233 | 58,955 | 76,840 | |
| U.S. - Europe (a) | 116,087 | 131,990 | 159,947 | 166,723 | 193,826 | 234,882 | 284,633 | |
| U.S.- Africa (a) | 2,610 | 3,011 | 3,927 | 4,165 | 5,120 | 6,676 | 8,706 | |
| U.S.- Middle East (a) | 4,950 | 5,763 | 7,863 | 8,436 | 10,728 | 14,636 | 19,969 | |
| U.S.-Asia (a) | 65,640 | 75,465 | 96,669 | 102,101 | 123,831 | 158,624 | 203,195 | |
| U.S.- Oceania (a) | 2,130 | 2,447 | 3,122 | 3,294 | 3,982 | 5,080 | 6,481 | |
| Other (a) | 13,120 | 14,989 | 18,602 | 19,498 | 23,085 | 28,650 | 35,556 | |
| FAA Load Factor (b) | | | | | | | | |
| U.S. (Canada) | 80.4 | 81.6 | 82.5 | 82.6 | 82.9 | 83.1 | 83.2 | |
| Atlantic | 78.9 | 81.8 | 81.9 | 81.9 | 82.1 | 82.4 | 82.6 | |
| Latin America | 76.8 | 78.2 | 78.6 | 78.6 | 78.6 | 78.6 | 78.6 | |
| Pacific | 78.3 | 81.0 | 81.0 | 81.1 | 81.3 | 81.6 | 81.8 | |
| Originations - Top Down (c) | 644,281 | 733,467 | 895,030 | 934,687 | 1,093,314 | 1,336,925 | 1,636,550 | |
| Enplanements - Top Down (c) | 1,059,969 | 1,141,442 | 1,331,485 | 1,378,006 | 1,564,092 | 1,815,444 | 2,109,421 | |
| Ratio of Enplanements/Outbound Passengers (e) | 0.9634 | 0.9634 | 0.9634 | 0.9634 | 0.9634 | 0.9634 | 0.9634 | |
| Outbound Passengers - Top Down (f) | 1,100,231 | 1,184,799 | 1,382,060 | 1,430,349 | 1,623,503 | 1,884,402 | 2,189,546 | |
| Outbound Passengers - Bottom Up (g) | 1,100,231 | 1,149,991 | 1,381,037 | 1,430,325 | 1,623,457 | 1,884,321 | 2,189,419 | |
| Adjustment Factor for Outbound Passengers (h) | 1.00000 | 0.86728 | 0.80601 | 0.80729 | 0.75051 | 0.73601 | 0.70046 | |
| Outbound Passengers - Bottom Up - Canada (g) | 416,042 | 474,284 | 514,938 | 531,823 | 554,158 | 628,089 | 690,847 | |
| Outbound Passengers - Bottom Up - non-PC (i) | 70,668 | 69,027 | 63,430 | 65,510 | 68,261 | 77,368 | 85,098 | |
| Outbound Passengers - Bottom Up - Mex & CA (g) | 188,359 | 186,049 | 260,576 | 272,581 | 298,870 | 358,176 | 422,527 | |
| Outbound Passengers - Bottom Up - Mex. City (g) | - | - | 39,497 | 41,317 | 44,944 | 53,862 | 62,643 | |
| Outbound Passengers - Bottom Up - Carib. (g) | 19,904 | 19,660 | 27,845 | 29,128 | 31,685 | 37,973 | 44,163 | |
| Outbound Passengers - Bottom Up - Europe (g) | 349,089 | 344,230 | 427,953 | 446,793 | 486,816 | 582,038 | 671,256 | |
| Outbound Passengers - Bottom Up - Asia (g) | 126,837 | 125,768 | 149,725 | 150,000 | 251,928 | 278,045 | 360,625 | |
| Outbound Passengers - Bottom Up - Other (g) | 684,189 | 675,707 | 866,099 | 898,501 | 1,069,299 | 1,256,232 | 1,498,571 | |
| Ratio of Outbound Passengers to Originations | 1.7077 | 1.6153 | 1.5441 | 1.5303 | 1.4849 | 1.4095 | 1.3379 | |
| Seat Departures (j) | 1,430,209 | 1,505,939 | 1,736,730 | 1,798,544 | 2,027,989 | 2,351,155 | 2,722,441 | |
| Enplanements - Bottom Up - Canada (k) | 400,817 | 456,928 | 496,095 | 512,361 | 533,879 | 605,105 | 665,566 | |
| Enplanements - Bottom Up - Non PC canada (k) | 68,082 | 66,501 | 61,109 | 63,113 | 65,763 | 74,537 | 81,984 | |
| Enplanements - Bottom Up - Mex & CA (k) | 181,466 | 179,241 | 251,040 | 262,606 | 287,933 | 345,069 | 407,065 | |
| Enplanements - Bottom Up - Mexico City (k) | - | - | 38,052 | 39,805 | 43,299 | 51,891 | 60,351 | |
| Enplanements - Bottom Up - Carib. (k) | 19,176 | 18,941 | 26,826 | 28,062 | 30,526 | 36,583 | 42,547 | |
| Enplanements - Bottom Up - Europe (k) | 336,314 | 331,633 | 412,292 | 430,443 | 469,001 | 560,739 | 646,692 | |
| Enplanements - Bottom Up - Asia (k) | 122,196 | 121,165 | 144,246 | 144,511 | 242,708 | 267,870 | 347,428 | |
| Mexico and Central America | | | | | | | | |
| Regional Index | | | | | | | | |
| ACA | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| ACA | Distance (m) | | 1975 | 1975 | | 1975 | 1975 | 1975 |
| ACA | Outbound Passengers (p) | 1673 | 1652 | 1877 | 1963 | 2136 | 2559 | 2977 |
| ACA | Load Factor (q) | 81.7% | 83.2% | 83.6% | 83.6% | 83.6% | 83.6% | 83.6% |
| ACA | Seat Departures (r) | 2048 | 148 | 2245 | 2348 | 2554 | 3061 | 3560 |
| ACA | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| BZE | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| BZE | Distance (m) | | 1906 | 1906 | | 1906 | 1906 | 1906 |
| BZE | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 2361 | 2830 | 3291 |
| BZE | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 83.6% | 83.6% | 83.6% |
| BZE | Seat Departures (r) | 0 | 0 | 0 | 0 | 2824 | 3385 | 3936 |
| BZE | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| CUN | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| CUN | Distance (m) | | 1683 | 1683 | | 1683 | 1683 | 1683 |
| CUN | Outbound Passengers (p) | 108423 | 107094 | 121628 | 127231 | 138400 | 165864 | 192903 |
| CUN | Load Factor (q) | 83.4% | 84.9% | 85.4% | 85.4% | 85.4% | 85.4% | 85.4% |
| CUN | Seat Departures (r) | 129965 | 108186 | 142455 | 149018 | 162099 | 194265 | 225934 |
| CUN | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| CZM | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| CZM | Distance (m) | | 1717 | 1717 | | 1717 | 1717 | 1717 |
| CZM | Outbound Passengers (p) | 12266 | 12116 | 13760 | 14394 | 15657 | 18764 | 21823 |
| CZM | Load Factor (q) | 82.7% | 84.2% | 84.7% | 84.7% | 84.7% | 84.7% | 84.7% |
| CZM | Seat Departures (r) | 14828 | 10710 | 16253 | 17002 | 18494 | 22164 | 25777 |
| CZM | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|------------------|---------------------------|---------|-------|-------|-------|--------------------|-------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| LIR | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| LIR | Distance (m) | | 2406 | 2406 | | 2406 | 2406 | 2406 |
| LIR | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 5961 |
| LIR | Load Factor (q) | 0.0% ## | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 79.6% |
| LIR | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 7492 |
| LIR | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| MEX | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| MEX | Distance (m) | | 1786 | 1786 | | 1786 | 1786 | 1786 |
| MEX | Outbound Passengers (p) | 0 | 0 | 39497 | 41317 | 44944 | 53862 | 62643 |
| MEX | Load Factor (q) | 0.0% ## | 0.0% | 79.6% | 79.6% | 79.6% | 79.6% | 79.6% |
| MEX | Seat Departures (r) | 0 | 1736 | 49645 | 51932 | 56490 | 67700 | 78737 |
| MEX | AWDPM Seat Departures (s) | | 6 | 166 | 173 | 189 | 226 | 263 |
| MZT | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| MZT | Distance (m) | | 1669 | 1669 | | 1669 | 1669 | 1669 |
| MZT | Outbound Passengers (p) | 10829 | 10696 | 12148 | 12708 | 13823 | 16566 | 19267 |
| MZT | Load Factor (q) | 79.4% | 80.9% | 81.3% | 81.3% | 81.3% | 81.3% | 81.3% |
| MZT | Seat Departures (r) | 13638 | 12564 | 14949 | 15637 | 17010 | 20385 | 23709 |
| MZT | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| PVR | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| PVR | Distance (m) | | 1804 | 1804 | | 1804 | 1804 | 1804 |
| PVR | Outbound Passengers (p) | 32365 | 31968 | 36307 | 37979 | 41313 | 49511 | 57583 |
| PVR | Load Factor (q) | 79.9% | 81.4% | 81.8% | 81.8% | 81.8% | 81.8% | 81.8% |
| PVR | Seat Departures (r) | 40509 | 33138 | 44402 | 46448 | 50525 | 60551 | 70422 |
| PVR | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| SJD | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| SJD | Distance (m) | | 1764 | 1764 | | 1764 | 1764 | 1764 |
| SJD | Outbound Passengers (p) | 10831 | 10698 | 12150 | 12710 | 13826 | 16569 | 19270 |
| SJD | Load Factor (q) | 79.1% | 80.6% | 81.0% | 81.0% | 81.0% | 81.0% | 81.0% |
| SJD | Seat Departures (r) | 13690 | 12276 | 15006 | 15697 | 17075 | 20463 | 23799 |
| SJD | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| SJO | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| SJO | Distance (m) | | 2462 | 2462 | | 2462 | 2462 | 2462 |
| SJO | Outbound Passengers (p) | 0 | 0 | 9779 | 10229 | 11127 | 13335 | 15509 |
| SJO | Load Factor (q) | 0.0% ## | 0.0% | 79.6% | 79.6% | 79.6% | 79.6% | 79.6% |
| SJO | Seat Departures (r) | 0 | 0 | 12291 | 12857 | 13986 | 16761 | 19494 |
| SJO | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| ZIH | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| ZIH | Distance (m) | | 1940 | 1940 | | 1940 | 1940 | 1940 |
| ZIH | Outbound Passengers (p) | 10291 | 10165 | 11544 | 12076 | 13136 | 15743 | 18309 |
| ZIH | Load Factor (q) | 77.7% | 79.2% | 79.6% | 79.6% | 79.6% | 79.6% | 79.6% |
| ZIH | Seat Departures (r) | 13238 | 8843 | 14510 | 15179 | 16511 | 19788 | 23013 |
| ZIH | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| ZLO | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| ZLO | Distance (m) | | 1888 | 1888 | | 1888 | 1888 | 1888 |
| ZLO | Outbound Passengers (p) | 1681 | 1660 | 1886 | 1973 | 2146 | 2572 | 2991 |
| ZLO | Load Factor (q) | 81.1% | 82.6% | 83.0% | 83.0% | 83.0% | 83.0% | 83.0% |
| ZLO | Seat Departures (r) | 2072 | 1184 | 2271 | 2376 | 2584 | 3097 | 3602 |
| ZLO | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| Caribbean | | | | | | | | |
| AUA | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| AUA | Distance (m) | | 2618 | 2618 | | 2618 | 2618 | 2618 |
| AUA | Outbound Passengers (p) | 0 | 0 | 2127 | 2225 | 2421 | 2901 | 3374 |
| AUA | Load Factor (q) | 0.0% | 0.0% | 74.0% | 74.0% | 74.0% | 74.0% | 74.0% |
| AUA | Seat Departures (r) | 0 | 0 | 2874 | 3007 | 3271 | 3920 | 4559 |
| AUA | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| FPO | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| FPO | Distance (m) | | 1499 | 1499 | | 1499 | 1499 | 1499 |
| FPO | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FPO | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| FPO | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FPO | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| GCM | Regional Index (l) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| GCM | Distance (m) | | 1891 | 1891 | | 1891 | 1891 | 1891 |
| GCM | Outbound Passengers (p) | 2489 | 2458 | 2792 | 2921 | 3177 | 3808 | 4428 |
| GCM | Load Factor (q) | 80.1% | 81.5% | 82.0% | 82.0% | 82.0% | 82.0% | 82.0% |
| GCM | Seat Departures (r) | 3108 | 2516 | 3407 | 3564 | 3876 | 4646 | 5403 |
| GCM | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|---------------------|---------------------------|--------|--------|--------|--------|--------------------|--------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| MBJ | Regional Index (I) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| MBJ | Distance (m) | | 2021 | 2021 | | 2021 | 2021 | 2021 |
| MBJ | Outbound Passengers (p) | 12540 | 12386 | 14067 | 14715 | 16007 | 19184 | 22311 |
| MBJ | Load Factor (q) | 82.6% | 84.1% | 84.6% | 84.6% | 84.6% | 84.6% | 84.6% |
| MBJ | Seat Departures (r) | 15174 | 13728 | 16632 | 17399 | 18926 | 22681 | 26379 |
| MBJ | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| NAS | Regional Index (I) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| NAS | Distance (m) | | 1627 | 1627 | | 1627 | 1627 | 1627 |
| NAS | Outbound Passengers (p) | 0 | 0 | 3390 | 3546 | 3857 | 4623 | 5376 |
| NAS | Load Factor (q) | 0.0% | 0.0% | 74.0% | 74.0% | 74.0% | 74.0% | 74.0% |
| NAS | Seat Departures (r) | 0 | 0 | 4580 | 4791 | 5212 | 6246 | 7264 |
| NAS | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| POP | Regional Index (I) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| POP | Distance (m) | | 2160 | 2160 | | 2160 | 2160 | 2160 |
| POP | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| POP | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| POP | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| POP | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| PUJ | Regional Index (I) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| PUJ | Distance (m) | | 2310 | 2310 | | 2310 | 2310 | 2310 |
| PUJ | Outbound Passengers (p) | 3132 | 3094 | 3513 | 3675 | 3998 | 4791 | 5572 |
| PUJ | Load Factor (q) | 72.3% | 73.6% | 74.0% | 74.0% | 74.0% | 74.0% | 74.0% |
| PUJ | Seat Departures (r) | 4331 | 4798 | 4747 | 4966 | 5402 | 6474 | 7529 |
| PUJ | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| SXM | Regional Index (I) | 100 | 114 | 139 | 145 | 170 | 208 | 254 |
| SXM | Distance (m) | | 2537 | 2537 | | 2537 | 2537 | 2537 |
| SXM | Outbound Passengers (p) | 1743 | 1722 | 1955 | 2045 | 2225 | 2666 | 3101 |
| SXM | Load Factor (q) | 76.4% | 77.8% | 78.2% | 78.2% | 78.2% | 78.2% | 78.2% |
| SXM | Seat Departures (r) | 2280 | 1620 | 2499 | 2614 | 2844 | 3408 | 3964 |
| SXM | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| Europe | | | | | | | | |
| AMS | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| AMS | Distance (m) | | 4166 | 4166 | | 4166 | 4166 | 4166 |
| AMS | Outbound Passengers (p) | 236639 | 233345 | 262796 | 274365 | 296533 | 352401 | 406418 |
| AMS | Load Factor (q) | 87.4% | 89.0% | 89.4% | 89.4% | 89.4% | 89.4% | 89.4% |
| AMS | Seat Departures (r) | 270857 | 274208 | 293907 | 306846 | 331638 | 394120 | 454533 |
| AMS | AWDPM Seat Departures (s) | | 871 | 934 | 975 | 1054 | 1253 | 1445 |
| CDG | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| CDG | Distance (m) | | 4222 | 4222 | | 4222 | 4222 | 4222 |
| CDG | Outbound Passengers (p) | 26639 | 26268 | 66261 | 69178 | 74767 | 88854 | 102474 |
| CDG | Load Factor (q) | 82.1% | 83.6% | 84.0% | 84.0% | 84.0% | 84.0% | 84.0% |
| CDG | Seat Departures (r) | 32439 | 59832 | 78840 | 82311 | 88961 | 105722 | 121928 |
| CDG | AWDPM Seat Departures (s) | | 190 | 251 | 262 | 283 | 336 | 387 |
| FCO | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| FCO | Distance (m) | | 4902 | 4902 | | 4902 | 4902 | 4902 |
| FCO | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FCO | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| FCO | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FCO | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| FRA | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| FRA | Distance (m) | | 4391 | 4391 | | 4391 | 4391 | 4391 |
| FRA | Outbound Passengers (p) | 0 | 0 | 3600 | 3759 | 4062 | 4828 | 5568 |
| FRA | Load Factor (q) | 0.0% | 0.0% | 81.3% | 81.3% | 81.3% | 81.3% | 81.3% |
| FRA | Seat Departures (r) | 0 | 0 | 4426 | 4621 | 4994 | 5935 | 6845 |
| FRA | AWDPM Seat Departures (s) | | 0 | 36 | 38 | 41 | 48 | 56 |
| KEF | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| KEF | Distance (m) | | 2944 | 2944 | | 2944 | 2944 | 2944 |
| KEF | Outbound Passengers (p) | 16519 | 16289 | 18345 | 19152 | 20700 | 24600 | 28371 |
| KEF | Load Factor (q) | 82.0% | 83.5% | 84.0% | 84.0% | 84.0% | 84.0% | 84.0% |
| KEF | Seat Departures (r) | 20136 | 21648 | 21850 | 22811 | 24655 | 29300 | 33791 |
| KEF | AWDPM Seat Departures (s) | | 176 | 178 | 186 | 201 | 238 | 275 |
| LON (London) | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| LHR | Distance (m) | | 4015 | 4015 | | 4015 | 4015 | 4015 |
| LHR | Outbound Passengers (p) | 69292 | 68327 | 76951 | 80339 | 86830 | 103189 | 119006 |
| LHR | Load Factor (q) | 79.5% | 80.9% | 81.3% | 81.3% | 81.3% | 81.3% | 81.3% |
| LHR | Seat Departures (r) | 87187 | 84846 | 94607 | 98772 | 106752 | 126865 | 146311 |
| LHR | AWDPM Seat Departures (s) | | 243 | 271 | 283 | 306 | 364 | 419 |
| MAD | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| MAD | Distance (m) | | 4332 | 4332 | | 4332 | 4332 | 4332 |
| MAD | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 3924 | 4663 | 5378 |
| MAD | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 81.3% | 81.3% | 81.3% |
| MAD | Seat Departures (r) | 0 | 0 | 0 | 0 | 4824 | 5733 | 6612 |
| MAD | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 39 | 47 | 54 |

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|----------------------------|---------------------------|--------|--------|--------|--------|--------------------|--------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| DUB | Regional Index (I) | 100 | 114 | 138 | 144 | 167 | 202 | 245 |
| DUB | Distance (m) | | 4586 | 4586 | | 4586 | 4586 | 4586 |
| DUB | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 3504 | 4042 |
| DUB | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 81.3% | 81.3% |
| DUB | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 4308 | 4969 |
| DUB | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 35 | 40 |
| South and East Asia | | | | | | | | |
| BKK | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| BKK | Distance (m) | | 8289 | 8289 | | 8289 | 8289 | 8289 |
| BKK | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BKK | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| BKK | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BKK | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| BOM | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| BOM | Distance (m) | | 7940 | 7940 | | 7940 | 7940 | 7940 |
| BOM | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BOM | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| BOM | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BOM | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| HKG | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| HKG | Distance (m) | | 7501 | 7501 | | 7501 | 7501 | 7501 |
| HKG | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 54525 |
| HKG | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 87.3% |
| HKG | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 62470 |
| HKG | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 361 |
| ICN | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| ICN | Distance (m) | | 6248 | 6248 | | 6248 | 6248 | 6248 |
| ICN | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 55845 | 70154 | 85525 |
| ICN | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 87.3% | 87.3% | 87.3% |
| ICN | Seat Departures (r) | 0 | 0 | 0 | 0 | 63982 | 80376 | 97987 |
| ICN | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 185 | 232 | 283 |
| KIX | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| KIX | Distance (m) | | 6187 | 6187 | | 6187 | 6187 | 6187 |
| KIX | Outbound Passengers (p) | 290 | 0 | 0 | 0 | 0 | 0 | 0 |
| KIX | Load Factor (q) | 72.0% | 73.3% | 73.6% | 73.6% | 73.6% | 73.6% | 73.6% |
| KIX | Seat Departures (r) | 403 | 0 | 0 | 0 | 0 | 0 | 0 |
| KIX | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| MNL | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| MNL | Distance (m) | | 7815 | 7815 | | 7815 | 7815 | 7815 |
| MNL | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MNL | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| MNL | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| MNL | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| NRT | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| NRT | Distance (m) | | 5950 | 5950 | | 5950 | 5950 | 5950 |
| NRT | Outbound Passengers (p) | 126135 | 125768 | 149725 | 150000 | 150000 | 150000 | 150000 |
| NRT | Load Factor (q) | 85.3% | 86.8% | 87.3% | 87.3% | 87.3% | 87.3% | 87.3% |
| NRT | Seat Departures (r) | 147901 | 147095 | 171541 | 171856 | 171856 | 171856 | 171856 |
| NRT | AWDPM Seat Departures (s) | | 425 | 496 | 497 | 497 | 497 | 497 |
| NGO | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| NGO | Distance (m) | | 5313 | 5313 | | 5313 | 5313 | 5313 |
| NGO | Outbound Passengers (p) | 277 | 0 | 0 | 0 | 0 | 0 | 0 |
| NGO | Load Factor (q) | 68.7% | 70.0% | 70.3% | 70.3% | 70.3% | 70.3% | 70.3% |
| NGO | Seat Departures (r) | 403 | 0 | 0 | 0 | 0 | 0 | 0 |
| NGO | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| PEK | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| PEK | Distance (m) | | 6300 | 6300 | | 6300 | 6300 | 6300 |
| PEK | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 46083 | 57891 | 70575 |
| PEK | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 87.3% | 87.3% | 87.3% |
| PEK | Seat Departures (r) | 0 | 0 | 0 | 0 | 52797 | 66326 | 80858 |
| PEK | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 305 | 384 | 468 |
| PVG | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| PVG | Distance (m) | | 6756 | 6756 | | 6756 | 6756 | 6756 |
| PVG | Outbound Passengers (p) | 135 | 0 | 0 | 0 | 0 | 0 | 0 |
| PVG | Load Factor (q) | 49.8% | 50.7% | 51.0% | 51.0% | 51.0% | 51.0% | 51.0% |
| PVG | Seat Departures (r) | 271 | 0 | 0 | 0 | 0 | 0 | 0 |
| PVG | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| SGN | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| SGN | Distance (m) | | 8396 | 8396 | | 8396 | 8396 | 8396 |
| SGN | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGN | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| SGN | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SGN | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|---------------|---------------------------|--------|--------|--------|--------|--------------------|--------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| SIN | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| SIN | Distance (m) | | 9055 | 9055 | | 9055 | 9055 | 9055 |
| SIN | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIN | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| SIN | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SIN | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| TPE | Regional Index (I) | 100 | 115 | 147 | 156 | 189 | 242 | 310 |
| TPE | Distance (m) | | 7150 | 7150 | | 7150 | 7150 | 7150 |
| TPE | Outbound Passengers (p) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TPE | Load Factor (q) | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% | 0.0% |
| TPE | Seat Departures (r) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TPE | AWDPM Seat Departures (s) | | 0 | 0 | 0 | 0 | 0 | 0 |
| Canada | | | | | | | | |
| YEG | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YEG | Distance (m) | | 1086 | 1086 | | 1086 | 1086 | 1086 |
| YEG | Outbound Passengers (p) | 57522 | 56186 | 60350 | 62328 | 64946 | 73611 | 80966 |
| YEG | Load Factor (q) | 68.9% | 70.2% | 70.5% | 70.5% | 70.5% | 70.5% | 70.5% |
| YEG | Seat Departures (r) | 83490 | 92958 | 85588 | 88395 | 92107 | 104395 | 114826 |
| YEG | AWDPM Seat Departures (s) | | 279 | 257 | 266 | 277 | 314 | 345 |
| YOW | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YOW | Distance (m) | | 857 | 857 | | 857 | 857 | 857 |
| YOW | Outbound Passengers (p) | 0 | 0 | 16223 | 16755 | 17458 | 19787 | 21765 |
| YOW | Load Factor (q) | 0.0% | 0.0% | 79.5% | 79.5% | 79.5% | 79.5% | 79.5% |
| YOW | Seat Departures (r) | 0 | 0 | 20395 | 21064 | 21949 | 24877 | 27363 |
| YOW | AWDPM Seat Departures (s) | | 0 | 139 | 143 | 149 | 169 | 186 |
| YQR | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YQR | Distance (m) | | 619 | 619 | | 619 | 619 | 619 |
| YQR | Outbound Passengers (p) | 32820 | 32058 | 34433 | 35562 | 37056 | 42000 | 46196 |
| YQR | Load Factor (q) | 59.9% | 61.0% | 61.3% | 61.3% | 61.3% | 61.3% | 61.3% |
| YQR | Seat Departures (r) | 54790 | 58179 | 56167 | 58009 | 60445 | 68509 | 75354 |
| YQR | AWDPM Seat Departures (s) | | 161 | 155 | 160 | 167 | 189 | 208 |
| YQT | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YQT | Distance (m) | | 304 | 304 | | 304 | 304 | 304 |
| YQT | Outbound Passengers (p) | 10210 | 9973 | 0 | 0 | 0 | 0 | 0 |
| YQT | Load Factor (q) | 45.5% | 46.3% | 46.5% | 46.5% | 46.5% | 46.5% | 46.5% |
| YQT | Seat Departures (r) | 22464 | 16794 | 0 | 0 | 0 | 0 | 0 |
| YQT | AWDPM Seat Departures (s) | | 51 | 0 | 0 | 0 | 0 | 0 |
| YUL | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YUL | Distance (m) | | 950 | 950 | | 950 | 950 | 950 |
| YUL | Outbound Passengers (p) | 17661 | 35474 | 38102 | 39352 | 41004 | 46475 | 51118 |
| YUL | Load Factor (q) | 77.7% | 79.1% | 79.5% | 79.5% | 79.5% | 79.5% | 79.5% |
| YUL | Seat Departures (r) | 22724 | 44826 | 47902 | 49473 | 51551 | 58428 | 64266 |
| YUL | AWDPM Seat Departures (s) | | 147 | 158 | 163 | 170 | 192 | 211 |
| YVR | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YVR | Distance (m) | | 1436 | 1436 | | 1436 | 1436 | 1436 |
| YVR | Outbound Passengers (p) | 49079 | 77669 | 83424 | 86159 | 89778 | 101755 | 111922 |
| YVR | Load Factor (q) | 78.3% | 79.7% | 80.2% | 80.2% | 80.2% | 80.2% | 80.2% |
| YVR | Seat Departures (r) | 62664 | 97392 | 104076 | 107489 | 112003 | 126945 | 139630 |
| YVR | AWDPM Seat Departures (s) | | 663 | 709 | 732 | 763 | 865 | 951 |
| YWG | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YWG | Distance (m) | | 394 | 394 | | 394 | 394 | 394 |
| YWG | Outbound Passengers (p) | 88616 | 86558 | 92972 | 96021 | 100053 | 113401 | 124732 |
| YWG | Load Factor (q) | 66.8% | 68.0% | 68.3% | 68.3% | 68.3% | 68.3% | 68.3% |
| YWG | Seat Departures (r) | 132741 | 126236 | 136077 | 140539 | 146441 | 165978 | 182562 |
| YWG | AWDPM Seat Departures (s) | | 354 | 381 | 394 | 410 | 465 | 511 |
| YXE | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YXE | Distance (m) | | 795 | 795 | | 795 | 795 | 795 |
| YXE | Outbound Passengers (p) | 27638 | 26996 | 28997 | 29947 | 31205 | 35368 | 38902 |
| YXE | Load Factor (q) | 59.8% | 60.9% | 61.2% | 61.2% | 61.2% | 61.2% | 61.2% |
| YXE | Seat Departures (r) | 46238 | 56416 | 47400 | 48954 | 51010 | 57816 | 63592 |
| YXE | AWDPM Seat Departures (s) | | 181 | 152 | 157 | 164 | 186 | 205 |
| YYC | Regional Index (I) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YYC | Distance (m) | | 1051 | 1051 | | 1051 | 1051 | 1051 |
| YYC | Outbound Passengers (p) | 67155 | 65596 | 70456 | 72766 | 75822 | 85938 | 94525 |
| YYC | Load Factor (q) | 68.7% | 70.0% | 70.3% | 70.3% | 70.3% | 70.3% | 70.3% |
| YYC | Seat Departures (r) | 97696 | 97056 | 100151 | 103435 | 107779 | 122158 | 134364 |
| YYC | AWDPM Seat Departures (s) | | 366 | 378 | 390 | 407 | 461 | 507 |

Table 6.5

Scheduled International Market-by-Market Passenger Projections at MSP

| Market | | 2009 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|--------|---------------------------|-------|--------|--------|--------|--------------------|--------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| YYZ | Regional Index (l) | 100 | 113 | 130 | 134 | 150 | 174 | 201 |
| YYZ | Distance (m) | | 679 | 679 | | 679 | 679 | 679 |
| YYZ | Outbound Passengers (p) | 65341 | 83774 | 89982 | 92932 | 96835 | 109754 | 120721 |
| YYZ | Load Factor (q) | 70.3% | 71.6% | 72.0% | 72.0% | 72.0% | 72.0% | 72.0% |
| YYZ | Seat Departures (r) | 92924 | 117006 | 125036 | 129136 | 134559 | 152511 | 167750 |
| YYZ | AWDPM Seat Departures (s) | | 391 | 417 | 431 | 449 | 509 | 560 |

(a) Table 6.3.

(b) FAA Aerospace Forecasts: Fiscal Years 2008-2025. extrapolated to 2030.

(c) Table A.5.1.

(d) Sum of originations for individual markets.

(e) Ratio in 2008 assumed to remain constant.

(f) Enplanements divided by ratio of enplanements to outbound passengers.

(g) Sum of outbound passengers for individual markets.

(h) Adjustment factor for individual destination market enplanement/origination ratios so that bottom-up outbound passengers match top-down outbound passengers.

(i) sum for non-pre-cleared Canadian markets.

(j) Sum of annual scheduled seat departures for individual markets.

(k) Outbound passengers multiplied by enplanement to outbound passenger ratio.

(l) Regional growth rate converted to index in which 2007 equals 100.

(m) Distance from MSP to individual market (in statute miles).

(n) Originations assumed to increase at same rate as regional index. Not shown to preserve confidentiality.

(o) Ratio of outbound passengers to originating passengers. Assumed to remain constant in markets with existing non-stop service. New non-stop markets assumed to have same enplanement/origination ratio as most similar existing non-stop market. Not shown to preserve confidentiality.

(p) Originations multiplied by enplanement/origination ratio.

(q) Load factor assumed to change at same rate as forecasted FAA load factor for that region.

(r) Outbound passengers divided by load factor.

(s) Annual scheduled seat departures divided by 365 days.

Sources: As noted and HNTB analysis.

Table 6.6

US International Seat Departure Thresholds for Nonstop Service: 2007

| Geographic Category | US Total Seat Departures (a) | | | | |
|---|------------------------------|-----------|---------------------|-------------|---------------|
| | Lowest With (b) | | Highest Without (c) | Average (d) | |
| International | | | | | |
| Mexico/Central America (tourist) | PVR | 928,555 | SJD | 1,150,289 | 1,039,422 |
| Mexico/Central America (tourist Seasonal) | ZLO | 38,717 | SJO | 1,038,591 | 538,654 |
| Mexico/Central America (non-tourist) | MEX | 2,812,866 | GDL | 1,143,490 | 1,978,178 |
| Caribbean (seasonal) | GCM | 464,948 | NAS | 1,413,725 | 939,337 |
| Canada | YQR | 83,862 | YOW | 540,477 | 312,170 |
| South America | N/A | | GRU | 1,345,042 | 6,156,966 (e) |
| Europe | LON | 8,036,911 | FRA | 4,277,021 | 6,156,966 |
| Africa | N/A | | DKR | 172,418 | 6,156,966 (e) |
| Middle East | N/A | | TLV | 799,270 | 6,156,966 (e) |
| Asia | NRT | 5,339,493 | ICN | 2,189,421 | 3,764,457 |
| Oceania | N/A | | SYD | 890,571 | 3,764,457 (f) |

(a) Official Airline Guide.

(b) Smallest market (US scheduled seat departures) in geographic category with non-stop service to MSP.

(c) Largest market (US scheduled seat departures) in geographic category without non-stop service to MSP.

(d) Average of smallest market with non-stop service and largest market without non-stop service.

(e) Assumed to be the same as Europe.

(f) Assumed to be the same as Asia.

Sources: As noted and HNTB analysis.

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | | | | |
|-----------------------------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|---|--|--|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 | | | |
| Mexico and Central America | | | | | | | | | | | | | | | | | | | |
| Acapulco | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | ACA | ACA | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | ACA | ACA | CA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |
| Belize | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | BZE | BZE | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | BZE | BZE | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | BZE | BZE | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | BZE | BZE | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | BZE | BZE | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | BZE | BZE | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |
| Cancun | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | CUN | CUN | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | NGD | 225 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | 753 | 223 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | DL | 73H | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | RD | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | SY | 737 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CUN | CUN | CA | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |
| Cozumel | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | CZM | CZM | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | SY | 737 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | CZM | CZM | CA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |
| Huatulco | | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 | | |
| | HUX | HUX | CA | SY | 738 | 168 | | | | | | 0 | 0 | 0 | 0 | 0 | | | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | | | |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|--------------------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Liberia | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| LIR | LIR | CA | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mexico City | | | | | | | | | | | | 173 | 189 | 226 | 263 | |
| MEX | MEX | CA | AM | M80 | 142 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEX | MEX | CA | AM | 757 | 191 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEX | MEX | CA | AM | 738 | 150 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MEX | MEX | CA | AM | 73G | 124 | | | 0.2 | 0.6 | 0.8 | | 0 | 0 | 25 | 74 | 99 |
| MEX | MEX | CA | DL | 738 | 160 | | 1.0 | 1.0 | 1.0 | 1.0 | | 0 | 160 | 160 | 160 | 160 |
| MEX | MEX | CA | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 1.0 | 1.2 | 1.6 | 1.8 | 0 | 160 | 185 | 234 | 259 | |
| Mazatlan | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| MZT | MZT | CA | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Vallarta | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | RD | 738 | 168 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | 757 | 183 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | SY | 737 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| PVR | PVR | CA | SY | 73G | 129 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |
| San Jose del Cabo | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | 320 | 148 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | 319 | 124 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | NGA | 120 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | 757 | 184 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | 738 | 160 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | DL | NGC | 180 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| SJD | SJD | CA | SY | 738 | 162 | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 | 0 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|----------------------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| San Jose | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SJO | SJO | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Ixtapa/Zihuatanejo | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZIH | ZIH | CA | SY | 73G | 129 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Manzanillo | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | SY | 737 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | ZLO | ZLO | CA | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Carribbean | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| Aruba | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P AUA | AUA | CR | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Freeport | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P FPO | FPO | CR | NW | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Grand Cayman Island | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | GCM | GCM | CR | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|---------------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Montego Bay | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | MBJ | MBJ | CR | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Nassau | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | P NAS | NAS | CR | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Plata | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | POP | POP | CR | NW | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Punta Cana | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | PUJ | PUJ | CR | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| St. Maarten | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | SXM | SXM | CR | SY | 738 | 162 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Europe | | | | | | | | | | | | 975 | 1054 | 1253 | 1445 | |
| Amsterdam | | | | | | | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | KL | M11 | 297 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | KL | 77W | 425 | | | | 1.0 | | 0 | 0 | 0 | 0 | 425 |
| | AMS | AMS | EU | KL | 332 | 259 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | KL | 772 | 327 | | | | 1.0 | | 0 | 0 | 0 | 327 | 0 |
| | AMS | AMS | EU | DL | 333 | 298 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 | 894 | 596 | 298 | 298 | 298 |
| | AMS | AMS | EU | DL | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | DL | 744 | 386 | | 1.0 | 2.0 | 1.0 | | 0 | 386 | 772 | 386 | 0 |
| | AMS | AMS | EU | DL | 763 | 221 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | DL | 764 | 245 | | | | 1.0 | | 0 | 0 | 0 | 245 | 0 |
| | AMS | AMS | EU | DL | 773 | 350 | | | | | 2.0 | 0 | 0 | 0 | 0 | 700 |
| | AMS | AMS | EU | DL | 772 | 278 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | DL | 788 | 202 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | AMS | AMS | EU | DL | 767 | 216 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | Subtotal | | | 3.0 | 3.0 | 3.0 | 4.0 | 4.0 | 894 | 982 | 1070 | 1256 | 1423 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|------------------|----------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Paris | | | | | | | | | | | | 262 | 283 | 336 | 387 | |
| | CDG | CDG | EU | AF | 343 | 272 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | CDG | CDG | EU | AF | 777 | 264 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | CDG | CDG | EU | AF | 332 | 219 | | | 0.6 | 0.8 | 0 | 0 | 0 | 131 | 175 | |
| | CDG | CDG | EU | AF | 773 | 325 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | CDG | CDG | EU | DL | 333 | 298 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | CDG | CDG | EU | DL | 763 | 221 | 1.0 | | | | 221 | 0 | 0 | 0 | 0 | |
| | CDG | CDG | EU | DL | 764 | 245 | | 1.0 | | | 0 | 245 | 0 | 0 | 0 | |
| | CDG | CDG | EU | DL | 772 | 278 | | | 1.0 | | 0 | 0 | 278 | 0 | 0 | |
| | CDG | CDG | EU | DL | 788 | 202 | | | 1.0 | 1.0 | 0 | 0 | 0 | 202 | 202 | |
| | CDG | CDG | EU | DL | 763 | 216 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 1.0 | 1.0 | 1.0 | 1.6 | 1.8 | 221 | 245 | 278 | 333 | 377 |
| Rome | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | FCO | FCO | EU | NW | 333 | 298 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | 0 |
| Frankfurt | | | | | | | | | | | | 38 | 41 | 48 | 56 | |
| | FRA | FRA | EU | LH | 340 | 221 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | FRA | FRA | EU | LH | 333 | 221 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | FRA | FRA | EU | LH | 350 | 300 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | FRA | HHN | EU | SY | 738 | 162 | | 0.2 | 0.3 | 0.3 | 0.3 | 0 | 32 | 49 | 49 | 49 |
| | Subtotal | | | | | | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0 | 32 | 49 | 49 | 49 |
| Reykjavik | | | | | | | | | | | | 186 | 201 | 238 | 275 | |
| | KEF | KEF | EU | FI | 752 | 186 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | KEF | KEF | EU | FI | 757 | 186 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | KEF | KEF | EU | FI | 75W | 176 | 1.0 | 1.0 | | | 176 | 176 | 0 | 0 | 0 | |
| | KEF | KEF | EU | FI | 788 | 210 | | | 1.0 | 1.1 | 1.3 | 0 | 0 | 210 | 231 | 273 |
| | Subtotal | | | | | | 1.0 | 1.0 | 1.0 | 1.1 | 1.3 | 176 | 176 | 210 | 231 | 273 |
| London | | | | | | | | | | | | 283 | 306 | 364 | 419 | |
| | LGW | LON | EU | SY | 738 | 162 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | STN | LON | EU | SY | 738 | 162 | | 0.4 | 0.4 | 0.7 | 1.0 | 0 | 65 | 65 | 113 | 162 |
| | LHR | LON | EU | DL | 333 | 298 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 332 | 243 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 744 | 386 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 763 | 221 | | 1.0 | | | 0 | 221 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 764 | 246 | 1.0 | | 1.0 | 1.0 | 1.0 | 246 | 0 | 246 | 246 | 246 |
| | LHR | LON | EU | DL | 772 | 278 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 773 | 350 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 788 | 202 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | LHR | LON | EU | DL | 767 | 216 | | | | | 0 | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 1.0 | 1.4 | 1.4 | 1.7 | 2.0 | 246 | 286 | 311 | 359 | 408 |
| Madrid | | | | | | | | | | | | 0 | 39 | 47 | 54 | |
| | MAD | MAD | EU | SY | 738 | 162 | | | 0.2 | 0.3 | 0.3 | 0 | 0 | 32 | 49 | 49 |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0 | 0 | 32 | 49 | 49 |
| Munich | | | | | | | | | | | | 0 | 0 | 35 | 40 | |
| | DUB | DUB | EU | SY | 738 | 162 | | | 0.2 | 0.2 | 0.2 | 0 | 0 | 0 | 32 | 32 |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | 0 | 0 | 0 | 32 | 32 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|----------------------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| South and East Asia | | | | | | | | | | | | | | | | |
| Bangkok | | | | | | | | | | | | | | | | |
| | BKK | BKK | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Mumbai | | | | | | | | | | | | | | | | |
| | BOM | BOM | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Hong Kong | | | | | | | | | | | | | | | | |
| | HKG | HKG | AS | NW | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | |
| | HKG | HKG | AS | DL | 772 | 268 | | | | | | 0 | 0 | 0 | 0 | |
| | HKG | HKG | AS | DL | 773 | 350 | | | 1.0 | | | 0 | 0 | 0 | 350 | |
| | HKG | HKG | AS | DL | 788 | 202 | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0 | 0 | 0 | 350 | |
| Seoul | | | | | | | | | | | | | | | | |
| | ICN | ICN | AS | KE | 744 | 384 | | | | | | 0 | 185 | 232 | 283 | |
| | ICN | ICN | AS | KE | 777 | 261 | | | | | | 0 | 0 | 0 | 0 | |
| | ICN | ICN | AS | KE | 788 | 210 | | | 0.2 | 0.4 | | 0 | 0 | 42 | 84 | |
| | ICN | ICN | AS | KE | 773 | 291 | | | | | | 0 | 0 | 0 | 0 | |
| | ICN | ICN | AS | DL | 788 | 202 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 202 | 202 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 1.0 | 1.2 | 1.4 | 0 | 0 | 202 | 244 | |
| Osaka | | | | | | | | | | | | | | | | |
| | KIX | KIX | AS | NW | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | |
| | KIX | KIX | AS | NW | 744 | 386 | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Manila | | | | | | | | | | | | | | | | |
| | MNL | MNL | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Tokyo | | | | | | | | | | | | | | | | |
| | NRT | NRT | AS | NH | 788 | 210 | | 0.4 | 0.6 | 1.0 | 1.0 | 0 | 84 | 126 | 210 | |
| | NRT | NRT | AS | DL | 772 | 278 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 278 | |
| | NRT | NRT | AS | DL | 773 | 325 | | | | | | 0 | 0 | 0 | 0 | |
| | NRT | NRT | AS | DL | 788 | 202 | | | | | | 0 | 0 | 0 | 0 | |
| | NRT | NRT | AS | DL | 744 | 403 | | | | | | 403 | 0 | 0 | 0 | |
| | NRT | NRT | AS | DL | 744 | 386 | | | 1.0 | 1.0 | | 0 | 386 | 386 | 0 | |
| | NRT | NRT | AS | DL | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 1.0 | 1.4 | 1.6 | 2.0 | 2.0 | 403 | 470 | 512 | 488 | |
| Tokoname | | | | | | | | | | | | | | | | |
| | NGO | NGO | AS | NW | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | |
| | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Beijing | | | | | | | | | | | | | | | | |
| | PEK | PEK | AS | CA | 788 | 210 | | | | | | 0 | 0 | 0 | 0 | |
| | PEK | PEK | AS | CA | 359 | 327 | | | 0.1 | 0.3 | 0.6 | 0 | 0 | 33 | 98 | |
| | PEK | PEK | AS | DL | 772 | 278 | | | 1.0 | 1.0 | 1.0 | 0 | 0 | 278 | 278 | |
| | PEK | PEK | AS | DL | 773 | 325 | | | | | | 0 | 0 | 0 | 0 | |
| | PEK | PEK | AS | DL | 788 | 202 | | | | | | 0 | 0 | 0 | 0 | |
| | PEK | PEK | AS | DL | 744 | 386 | | | | | | 0 | 0 | 0 | 0 | |
| | PEK | PEK | AS | DL | 332 | 243 | | | | | | 0 | 0 | 0 | 0 | |
| | | | | Subtotal | | | 0.0 | 0.0 | 1.1 | 1.3 | 1.6 | 0 | 0 | 311 | 376 | |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|--------------------|----------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| Shanghai | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | PVG | PVG | AS | DL | 772 | 278 | | | | | | 0 | 0 | 0 | 0 | |
| | PVG | PVG | AS | DL | 773 | 325 | | | | | | 0 | 0 | 0 | 0 | |
| | PVG | PVG | AS | DL | 788 | 202 | | | | | | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Ho Chi Minh | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | SGN | SGN | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Singapore | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | SIN | SIN | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Taipei | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | TPE | TPE | AS | | | | | | | | | 0 | 0 | 0 | 0 | |
| | Subtotal | | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0 | 0 | 0 | 0 | |
| Canada | | | | | | | | | | | | 266 | 277 | 314 | 345 | |
| | P | YEG | YEG | CN | DL | 320 | 148 | | | 1.0 | | 0 | 0 | 0 | 148 | |
| | P | YEG | YEG | CN | DL | 319 | 124 | 1.0 | 1.0 | 2.0 | 1.0 | 0 | 124 | 124 | 248 | 124 |
| | P | YEG | YEG | CN | DL | NGA | 120 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | 757 | 183 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | 738 | 160 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | 321 | 180 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | M80 | 149 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | CR9 | 76 | 4.0 | 2.0 | 2.0 | 1.0 | 304 | 152 | 152 | 76 | 0 |
| | P | YEG | YEG | CN | DL | M90 | 160 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | CR7 | 70 | | | | | 0 | 0 | 0 | 0 | |
| | P | YEG | YEG | CN | DL | E75 | 76 | | | 1.0 | | 0 | 0 | 0 | 76 | |
| | Subtotal | | | | | | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 304 | 276 | 276 | 324 | 348 |
| Ottawa | | | | | | | | | | | | 143 | 149 | 169 | 186 | |
| | P | YOW | YOW | CN | DL | CRJ | 50 | | | | | 0 | 0 | 0 | 0 | |
| | P | YOW | YOW | CN | DL | 319 | 124 | | | 0.4 | 0.7 | 0 | 0 | 0 | 50 | 87 |
| | P | YOW | YOW | CN | DL | E75 | 76 | 2.0 | 2.0 | 1.6 | 1.3 | 0 | 152 | 152 | 122 | 99 |
| | Subtotal | | | | | | 0.0 | 2.0 | 2.0 | 2.0 | 2.0 | 0 | 152 | 152 | 171 | 186 |
| Regina | | | | | | | | | | | | 160 | 167 | 189 | 208 | |
| | YQR | YQR | CN | DL | CRJ | 50 | 4.0 | 2.4 | 2.4 | 1.0 | 1.0 | 200 | 120 | 120 | 50 | 50 |
| | YQR | YQR | CN | DL | E75 | 76 | | 0.6 | 0.6 | 2.0 | 2.0 | 0 | 46 | 46 | 152 | 152 |
| | YQR | YQR | CN | DL | D95 | 125 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YQR | YQR | CN | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YQR | YQR | CN | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | Subtotal | | | | | | 4.0 | 3.0 | 3.0 | 3.0 | 3.0 | 200 | 166 | 166 | 202 | 202 |
| Thunder Bay | | | | | | | | | | | | 0 | 0 | 0 | 0 | |
| | YQT | YQT | CN | DL | SF3 | 34 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YQT | YQT | CN | DL | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| | YQT | YQT | CN | DL | NGT | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|------------------|---------|--------|--------|---------------|-------|----------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| | | | | | | Subtotal | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 100 | 0 | 0 | 0 | 0 |
| Montreal | | | | | | | | | | | | | 163 | 170 | 192 | 211 |
| P | YUL | YUL | CN | DL | CR9 | 76 | 2.0 | 2.0 | 1.6 | 1.0 | 1.0 | 152 | 152 | 122 | 76 | 76 |
| P | YUL | YUL | CN | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YUL | YUL | CN | DL | 319 | 124 | | | 0.4 | 1.0 | 1.0 | 0 | 0 | 50 | 124 | 124 |
| P | YUL | YUL | CN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | Subtotal | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 152 | 152 | 171 | 200 | 200 |
| Vancouver | | | | | | | | | | | | | 732 | 763 | 865 | 951 |
| P | YVR | YVR | CN | DL | 320 | 148 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 148 | 148 |
| P | YVR | YVR | CN | DL | 319 | 124 | 4.0 | 4.0 | 4.0 | 1.0 | 3.0 | 496 | 496 | 496 | 124 | 372 |
| P | YVR | YVR | CN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | DL | 757 | 184 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | DL | 738 | 160 | | | | 2.0 | 1.0 | 0 | 0 | 0 | 320 | 160 |
| P | YVR | YVR | CN | DL | 321 | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | DL | E75 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YVR | YVR | CN | AC | 320 | 140 | | | 2.0 | 2.0 | 2.0 | | 0 | 280 | 280 | 280 |
| P | YVR | YVR | CN | AC | 319 | 112 | | 2.0 | | | | 0 | 224 | 0 | 0 | 0 |
| | | | | | | Subtotal | 4.0 | 6.0 | 6.0 | 6.0 | 7.0 | 496 | 720 | 776 | 872 | 960 |
| Winnipeg | | | | | | | | | | | | | 394 | 410 | 465 | 511 |
| P | YWG | YWG | CN | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | DL | 319 | 124 | | 2.0 | 1.0 | 1.0 | 1.0 | 0 | 248 | 124 | 124 | 124 |
| P | YWG | YWG | CN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | DL | 738 | 160 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 160 | 160 |
| P | YWG | YWG | CN | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | DL | M80 | 149 | | | 1.0 | | | 0 | 0 | 149 | 0 | 0 |
| P | YWG | YWG | CN | DL | CR9 | 76 | 2.0 | | | 1.0 | 3.0 | 152 | 0 | 0 | 76 | 228 |
| P | YWG | YWG | CN | DL | CRJ | 50 | 1.0 | 3.0 | 3.0 | 2.0 | | 50 | 150 | 150 | 100 | 0 |
| P | YWG | YWG | CN | DL | D95 | 125 | 1.0 | | | | | 125 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | DL | CR7 | 70 | 1.0 | | | | | 70 | 0 | 0 | 0 | 0 |
| P | YWG | YWG | CN | WS | 73G | 136 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | Subtotal | 5.0 | 5.0 | 5.0 | 5.0 | 5.0 | 397 | 398 | 423 | 460 | 512 |
| Saskatoon | | | | | | | | | | | | | 157 | 164 | 186 | 205 |
| | YXE | YXE | CN | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YXE | YXE | CN | DL | 319 | 124 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YXE | YXE | CN | DL | E75 | 76 | | 2.0 | 1.0 | 1.0 | 2.0 | 0 | 152 | 76 | 76 | 152 |
| | YXE | YXE | CN | DL | CRJ | 50 | 4.0 | | 2.0 | 2.0 | 1.0 | 200 | 0 | 100 | 100 | 50 |
| | YXE | YXE | CN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | YXE | YXE | CN | DL | CR9 | 76 | | | | | | 0 | 0 | 0 | 0 | 0 |
| | | | | | | Subtotal | 4.0 | 2.0 | 3.0 | 3.0 | 3.0 | 200 | 152 | 176 | 176 | 202 |
| Calgary | | | | | | | | | | | | | 390 | 407 | 461 | 507 |
| P | YYC | YYC | CN | DL | 320 | 148 | | | | 1.0 | 1.0 | 0 | 0 | 0 | 148 | 148 |
| P | YYC | YYC | CN | DL | 319 | 124 | 2.0 | 2.0 | 2.0 | 2.0 | 1.0 | 248 | 248 | 248 | 248 | 124 |
| P | YYC | YYC | CN | DL | E75 | 76 | | 2.0 | 2.0 | 1.0 | 1.0 | 0 | 152 | 152 | 76 | 76 |
| P | YYC | YYC | CN | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 160 |

Table 6.7

International Scheduled Aircraft Departure Projections at MSP

| x | Airport | Market | Region | Publ. Carrier | Equip | Seats | AWDPM Aircraft Departures | | | | | AWDPM Seat Departures | | | | |
|----------------|---------|--------|--------|---------------|-------|-------|---------------------------|------|------|------|------|-----------------------|------|------|------|------|
| | | | | | | | EA Analysis Pd. | | | | | EA Analysis Pd. | | | | |
| | | | | | | | 2010 | 2016 | 2020 | 2025 | 2030 | 2010 | 2016 | 2020 | 2025 | 2030 |
| P | YYC | YYC | CN | DL | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYC | YYC | CN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYC | YYC | CN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYC | YYC | CN | DL | CR9 | 76 | 1.0 | | | | | 76 | 0 | 0 | 0 | 0 |
| P | YYC | YYC | CN | WS | 73G | 136 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | | 3.0 | 4.0 | 4.0 | 4.0 | 4.0 | 324 | 400 | 400 | 472 | 508 |
| Toronto | | | | | | | | | | | | | 431 | 449 | 509 | 560 |
| P | YYZ | YYZ | CN | AC | CRJ | 50 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | AC | 319 | 112 | | 1.0 | 1.0 | 1.0 | | 0 | 112 | 112 | 112 | 0 |
| P | YYZ | YYZ | CN | AC | CRJ | 50 | 2.0 | | | | | 100 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | AC | E75 | 73 | | 1.0 | 1.0 | 1.0 | 3.0 | 0 | 73 | 73 | 73 | 219 |
| P | YYZ | YYZ | CN | DL | 320 | 148 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | 319 | 124 | | 1.0 | 1.0 | 1.0 | 1.0 | 0 | 124 | 124 | 124 | 124 |
| P | YYZ | YYZ | CN | DL | NGA | 120 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | D9S | 100 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | 738 | 160 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | NGC | 180 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | M80 | 149 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | DL | CR9 | 76 | 1.0 | 1.0 | 2.0 | 2.0 | 3.0 | 76 | 76 | 152 | 152 | 228 |
| P | YYZ | YYZ | CN | DL | CRJ | 50 | 4.0 | 1.0 | | 1.0 | | 200 | 50 | 0 | 50 | 0 |
| P | YYZ | YYZ | CN | DL | CR7 | 70 | | | | | | 0 | 0 | 0 | 0 | 0 |
| P | YYZ | YYZ | CN | WS | 73G | 140 | | | | | | 0 | 0 | 0 | 0 | 0 |
| Subtotal | | | | | | | 7.0 | 5.0 | 5.0 | 6.0 | 7.0 | 376 | 435 | 461 | 511 | 571 |
| Total | | | | | | | 42.0 | 41.0 | 44.8 | 49.3 | 53.7 | 4459 | 5202 | 6160 | 7040 | 8157 |

(a) AAD Seat Departures from Table 6.5

Sources: As noted and HNTB analysis.

Table 6.8

**MSP International Air Carrier Fleet Mix by Carrier
Scheduled Average Weekday Peak Month Departures**

| Carrier | Equipment | 2010 | 2016 | EA Analysis Period | | Long Term |
|----------|-----------|------|------|--------------------|------|-----------|
| | | | | 2020 | 2025 | 2030 |
| AC | 319 | | 3.0 | 1.0 | 1.0 | |
| | 320 | | | 2.0 | 2.0 | 2.0 |
| | CRJ | 2.0 | | | | |
| | E75 | | 1.0 | 1.0 | 1.0 | 3.0 |
| AC Total | | 2.0 | 4.0 | 4.0 | 4.0 | 5.0 |
| AF | 332 | | | | | 0.6 |
| AF Total | | | | | | 0.6 |
| AM | 738 | | | | | |
| | 73G | | | 0.2 | 0.6 | 0.8 |
| AM Total | | | | 0.2 | 0.6 | 0.8 |
| CA | 359 | | | 0.1 | 0.3 | 0.6 |
| CA Total | | | | 0.1 | 0.3 | 0.6 |
| DL | 319 | 6.0 | 10.0 | 9.4 | 8.4 | 8.7 |
| | 320 | | | | 2.0 | 3.0 |
| | 332 | | | | | |
| | 333 | 3.0 | 2.0 | 1.0 | 1.0 | 1.0 |
| | 738 | | 1.0 | 1.0 | 4.0 | 4.0 |
| | 744 | 1.0 | 2.0 | 3.0 | 1.0 | |
| | 753 | | | | | |
| | 763 | 1.0 | 1.0 | | | |
| | 764 | 1.0 | 1.0 | 1.0 | 2.0 | 1.0 |
| | 767 | | | | | |
| | 772 | | | 2.0 | 2.0 | 2.0 |
| | 773 | | | | | 3.0 |
| | 788 | | | 1.0 | 2.0 | 2.0 |
| | CR7 | 1.0 | | | | |
| | CR9 | 10.0 | 5.0 | 5.6 | 5.0 | 7.0 |
| | CRJ | 15.0 | 6.4 | 7.4 | 6.0 | 2.0 |
| | D95 | 1.0 | | | | |
| E75 | | 6.6 | 5.6 | 5.6 | 7.3 | |
| M80 | | | 1.0 | | | |
| SF3 | | | | | | |
| DL Total | | 39.0 | 35.0 | 38.0 | 39.0 | 41.0 |
| FI | 752 | | | | | |
| | 788 | | | 1.0 | 1.1 | 1.3 |
| | 75W | 1.0 | 1.0 | | | |
| FI Total | | 1.0 | 1.0 | 1.0 | 1.1 | 1.3 |
| KE | 744 | | | | | |
| | 788 | | | | 0.2 | 0.4 |
| KE Total | | | | | 0.2 | 0.4 |
| KL | 332 | | | | | |
| | 772 | | | | 1.0 | |
| | 77W | | | | | 1.0 |
| KL Total | | | | | 1.0 | 1.0 |
| NH | 788 | | 0.4 | 0.6 | 1.0 | 1.0 |
| NH Total | | | 0.4 | 0.6 | 1.0 | 1.0 |
| SY | 737 | | | | | |
| | 738 | | 0.6 | 0.9 | 1.5 | 1.8 |
| | 73G | | | | | |
| SY Total | | | 0.6 | 0.9 | 1.5 | 1.8 |
| | Total | 42.0 | 41.0 | 44.8 | 49.3 | 53.7 |

Sources: Table 6.7 and HNTB analysis.

Attachment 7

Non-Scheduled Passenger Forecasts

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Table 7.1

Forecast of Annual Domestic and International Charter Enplanements at MSP

| Year | Domestic (a) | International (a) | Total (b) |
|-----------------------------------|--------------|-------------------|-----------|
| 1995 | n/a | n/a | 501,792 |
| 1996 | n/a | n/a | 481,532 |
| 1997 | n/a | n/a | 465,628 |
| 1998 | n/a | n/a | 635,290 |
| 1999 | n/a | n/a | 650,350 |
| 2000 | n/a | n/a | 399,683 |
| 2001 | n/a | n/a | 280,609 |
| 2002 | n/a | n/a | 365,023 |
| 2003 | 115,050 | 118,642 | 233,692 |
| 2004 | 110,185 | 150,913 | 240,250 |
| 2005 | 94,267 | 111,708 | 205,975 |
| 2006 | 57,642 | 93,770 | 151,412 |
| 2007 | 41,874 | 43,641 | 85,515 |
| 2008 | 16,990 | 15,386 | 32,376 |
| 2009 | 9,640 | 17,085 | 26,725 |
| 2010 | 4,736 | - | 4,736 |
| 2015 | 2,658 | 2,658 | 5,316 |
| 2016 | 2,732 | 2,732 | 5,464 |
| EA Analysis Period | | | |
| 2020 | 3,041 | 3,041 | 6,081 |
| 2025 | 3,478 | 3,478 | 6,956 |
| Average Annual Growth Rate | | | |
| 2010-2025 | -2.0% | n/a | 2.6% |
| Long Term | | | |
| 2030 | 3,980 | 3,980 | 7,960 |
| Average Annual Growth Rate | | | |
| 2010-2030 | -0.9% | n/a | 2.6% |

(a) Historical data from monthly activity reports. Future domestic/international passenger traffic assumed to be evenly split based on general historical experience.

(b) Assumed to increase at same rate as scheduled enplanements.

Sources: As noted and HNTB analysis.

Table 7.2

Forecast of MSP Domestic Non-Scheduled (Charter) Annual Departures and Fleet Mix

| Aircraft | Capacity Seats (a) | 2008 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|----------------------------|-----------------------|--------|-------------------|-------|-------|--------------------|-------|-----------|
| | | | | | | 2020 | 2025 | 2030 |
| | | | Annual (b) | | | | | |
| BOMBARDIER BD-700 | 14 | 1 | - | - | | - | - | - |
| CESSNA CITATION III | 7 | 1 | - | - | | - | - | - |
| CESSNA CITATION X | 8 | 1 | - | - | | - | - | - |
| EMB-135 Embraer | 13 | 1 | - | - | | - | - | - |
| DC-9-15/15F MD | 50 | 3 | 4 | - | | - | - | - |
| DC-9-30 MD | 74 | 3 | 2 | - | | - | - | - |
| MD-80/DC-9-80 MD | 146 | 8 | 10 | 8 | 7 | 6 | 5 | 4 |
| 727-200 Boeing | 148 | 66 | - | | | | | |
| 737-100/200 Boeing | 104 | 11 | 6 | | | | | |
| 737-300 Boeing | 114 | 3 | - | | | | | |
| 737-400 Boeing | 78 | 42 | 19 | 11 | 12 | 13 | 14 | 15 |
| 737-700/LR | 18 | 1 | - | | | | | |
| 737-800/900 <7-1-02 Boeing | 173 | 15 | 8 | 4 | 5 | 6 | 8 | 9 |
| 757-200 Boeing | 165 | 6 | - | | | | | |
| 767-300/ER Boeing | 264 | 1 | 2 | 2 | 2 | 3 | 4 | 6 |
| MD-11 | 365 | - | - | - | | - | - | - |
| Total Departures | | 163 | 51 | 25 | 26 | 28 | 31 | 34 |
| Total Operations (c) | | 306 | 103 | 50 | 52 | 56 | 62 | 68 |
| Enplanements (d) | | 16,990 | 4,736 | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 |
| Load Factor (e) | | 92.4% | 81.3% | 81.3% | 81.3% | 81.3% | 81.3% | 81.3% |
| Seat Departures (f) | | 18,397 | 5,826 | 3,270 | 3,361 | 3,740 | 4,279 | 4,896 |

(a) Existing fleet mix data from USDOT T-100 database.

(b) Annual departures by aircraft type estimated so that seat departures sum to estimate of seat departures derived from enplanements and load factor.

(c) Departures multiplied by two.

(d) Table 7.1.

(e) Assumed to remain constant.

(f) Enplanements divided by load factor.

Sources: As noted and HNTB analysis.

Table 7.3

Forecast of International Non-Scheduled (Charter) Annual Departures and Fleet Mix at MSP

| Aircraft | Capacity Seats (a) | 2008 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term | |
|----------------------------|-----------------------|--------|-------------------|-------|-------|--------------------|-------|-----------|--|
| | | | | | | 2020 | 2025 | 2030 | |
| | | | | | | | | | |
| | | | Annual (b) | | | | | | |
| BOMBARDIER BD-700 GLOBA | 12 | 1 | | - | | | - | - | |
| 727-200 Boeing | 154 | 92 | | - | | - | - | - | |
| 737-100/200 Boeing | 122 | 1 | | - | | - | - | - | |
| 737-300 | 114 | - | | | | - | - | - | |
| 737-400 Boeing | 68 | 6 | | | | | | | |
| 737-700/LR >4-1-01 Boeing | 18 | 1 | | | | | | | |
| 737-800/900 <7-1-02 Boeing | 173 | 2 | | 10 | 10 | 11 | 11 | 12 | |
| 757-200 Boeing | 165 | - | | 6 | 6 | 6 | 6 | 7 | |
| 767-300/ER Boeing | 264 | | | 2 | 2 | 3 | 5 | 6 | |
| Total Departures | | 103 | - | 18 | 18 | 20 | 22 | 25 | |
| Total Operations (c) | | 230 | - | 36 | 36 | 40 | 44 | 50 | |
| Enplanements (d) | | 15,386 | - | 2,658 | 2,732 | 3,041 | 3,478 | 3,980 | |
| Load Factor (e) | | 78.2% | 78.2% | 78.2% | 78.2% | 78.2% | 78.2% | 78.2% | |
| Seat Departures (f) | | 19,667 | - | 3,397 | 3,492 | 3,887 | 4,446 | 5,087 | |

(a) Existing fleet mix data from USDOT T-100 database.

(b) Annual departures by aircraft type estimated so that seat departures sum to estimate of seat departures derived from enplanements and load factor.

(c) Departures multiplied by two.

(d) Table 7.1.

(e) Assumed to remain constant.

(f) Enplanements divided by load factor.

Sources: As noted and HNTB analysis.

Table 7.4

Forecast of MSP Annual Domestic and International Charter Aircraft Operations

| Year | Domestic (a) | International (b) | Total |
|-----------------------------------|--------------|-------------------|--------|
| 1995 | n/a | n/a | 6,832 |
| 1996 | n/a | n/a | 8,750 |
| 1997 | n/a | n/a | 8,350 |
| 1998 | n/a | n/a | 11,531 |
| 1999 | n/a | n/a | 10,600 |
| 2000 | n/a | n/a | 5,959 |
| 2001 | n/a | n/a | 4,090 |
| 2002 | n/a | n/a | 4,833 |
| 2003 | 2,578 | 2,154 | 4,732 |
| 2004 | 2,235 | 1,558 | 3,793 |
| 2005 | 2,248 | 1,631 | 3,879 |
| 2006 | 1,846 | 1,387 | 3,233 |
| 2007 | 821 | 611 | 1,432 |
| 2008 | 306 | 230 | 536 |
| 2010 | 103 | - | 103 |
| 2015 | 50 | 36 | 86 |
| 2016 | 52 | 36 | 88 |
| EA Analysis Period | | | |
| 2020 | 56 | 40 | 96 |
| 2025 | 62 | 44 | 106 |
| Average Annual Growth Rate | | | |
| 2010-2025 | -3.3% | n/a | 0.2% |
| Long Term | | | |
| 2030 | 68 | 50 | 118 |
| Average Annual Growth Rate | | | |
| 2010-2030 | -2.1% | n/a | 0.7% |

(a) Historical data from Monthly Activity Reports. Forecast data from Table 7.2.

(b) Historical data from Monthly Activity Reports. Forecast data from Table 7.3.

Sources: As noted and HNTB analysis.

Attachment 8
Detailed Cargo Forecasts

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Table 8.1 Historical and Projected Enplaned Cargo Tonnage..... 1

Table 8.2 Air Cargo Annual Departures and Fleet Mix Forecast 2

Table 8.1

Historical and Projected Enplaned Cargo Tonnage at MSP

| Year | Passenger Carrier (a) | | | Cargo Carrier (b) | | | Total (c) | | | US Domestic RTMs (mil.) (d) | | US Domestic ASMs (e) | MSP Projected Seat Departures (f) | Ratio of MSP All-Cargo Tonnage to U.S. RTMs (g) |
|-----------------------------------|-----------------------|--------|---------|-------------------|--------|---------|-----------|--------|---------|-----------------------------|--------|----------------------|-----------------------------------|---|
| | Freight | Mail | Total | Freight | Mail | Total | Freight | Mail | Total | Passenger | Cargo | | | |
| 1990 | 40,110 | 42,479 | 82,589 | 64,617 | 3,379 | 67,996 | 104,727 | 45,858 | 150,585 | | | | | |
| 1992 | 53,498 | 51,350 | 104,848 | 66,401 | 4,629 | 71,030 | 119,899 | 55,979 | 175,878 | | | | | |
| 1995 | 45,927 | 66,564 | 112,491 | 91,412 | 4,974 | 96,386 | 137,339 | 71,538 | 208,877 | | | | | |
| 1999 | 31,889 | 55,559 | 87,448 | 100,880 | 13,458 | 114,338 | 132,768 | 69,018 | 201,786 | 4,218 | 9,757 | 694.7 | | 11.72 |
| 2000 | | | - | | | 119,176 | 140,760 | 69,563 | 210,324 | 4,415 | 10,283 | 726.6 | | 11.59 |
| 2001 | 26,411 | 53,327 | 79,737 | 96,994 | 10,428 | 107,422 | 123,405 | 63,755 | 187,160 | 3,946 | 9,992 | 732.1 | | 10.75 |
| 2002 | 18,944 | 34,348 | 53,292 | 119,571 | - | 119,571 | 138,515 | 34,348 | 172,863 | 3,337 | 9,630 | 681.8 | | 12.42 |
| 2003 | 14,802 | 21,029 | 35,831 | 138,829 | - | 138,829 | 153,631 | 21,029 | 174,660 | 3,819 | 11,153 | 684.2 | | 12.45 |
| 2004 | 20,578 | 5,174 | 25,752 | 136,217 | - | 136,217 | 156,795 | 5,174 | 161,969 | 3,300 | 13,041 | 730.2 | | 10.45 |
| 2005 | 22,922 | 5,070 | 27,992 | 130,625 | - | 130,625 | 153,548 | 5,070 | 158,617 | 3,082 | 13,008 | 755.2 | | 10.04 |
| 2006 | 22,073 | 4,829 | 26,902 | 122,591 | 21 | 122,612 | 144,664 | 4,850 | 149,514 | 3,229 | 12,481 | 740.2 | | 9.82 |
| 2007 | 20,968 | 4,157 | 25,124 | 115,544 | 515 | 116,058 | 136,511 | 4,671 | 141,182 | 3,023 | 12,795 | 752.5 | - | 9.07 |
| 2008 | 19,608 | 4,571 | 24,179 | 101,428 | 1,079 | 102,508 | 121,037 | 5,650 | 126,687 | 2,153 | 12,258 | 750.5 | - | 8.36 |
| 2009 | 15,392 | 3,612 | 19,004 | 83,101 | 641 | 83,742 | 98,493 | 4,253 | 102,746 | 1,640 | 10,220 | 683.8 | | 8.19 |
| 2010 | 17,099 | 4,844 | 21,943 | 88,821 | 1,170 | 89,990 | 105,920 | 6,013 | 111,933 | 1,637 | 10,372 | 676.2 | 20,247,650 | 8.68 |
| 2015 | | | 21,683 | | | 102,508 | | | 124,191 | 1,699 | 11,755 | 788.5 | 22,479,744 | 7.69 |
| 2016 | | | 21,709 | | | 102,280 | | | 123,989 | 1,706 | 12,016 | 812.7 | 23,102,049 | 7.50 |
| EA Analysis Period | | | | | | | | | | | | | | |
| 2020 | | | 21,540 | | | 102,291 | | | 123,830 | 1,742 | 13,238 | 926.5 | 25,591,271 | 6.81 |
| 2025 | | | 21,403 | | | 102,005 | | | 123,408 | 1,772 | 14,898 | 1,082.5 | 29,207,421 | 6.04 |
| Average Annual Growth Rate | | | | | | | | | | | | | | |
| 2010-2030 | | | -0.1% | | | 0.6% | | | 0.5% | 0.4% | 1.8% | 2.4% | 1.8% | -1.8% |
| Long Term | | | | | | | | | | | | | | |
| 2030 | | | 21,237 | | | 101,465 | | | 122,702 | 1,782 | 16,724 | 1,253.6 | 33,374,152 | 5.35 |
| Average Annual Growth Rate | | | | | | | | | | | | | | |
| 2010-2030 | | | -0.2% | | | 0.6% | | | 0.5% | 0.4% | 2.4% | 3.1% | 2.5% | -2.4% |

(a) Assumed to increase at same rate as scheduled seat departures adjusted by ratio of FAA projected growth in Revenue Ton Miles (RTMs) on domestic passenger carriers divided by FAA projected growth in U.S. domestic available seat miles (ASMs).

(b) Assumed to increase at same rate as FAA projected growth in RTMs on domestic all-cargo carriers, adjusted by ratio of MSP tonnage to US RTMs.

(c) Sum of passenger and all-cargo carrier tonnage.

(d) FAA Aerospace Forecasts: Fiscal Years 2010-2030.

(e) FAA Aerospace Forecasts: Fiscal Years 2010-2030.

(f) Tables A.4.3 and A.5.2.

(g) Future ratio of MSP all-cargotonnage to US all-cargo RTMs assumed to decline at half of historical rate.

Sources: As noted and HNTB analysis.

Table 8.2

MSP Air Cargo Annual Departures and Fleet Mix Forecast

| Aircraft | Capacity | | 2004 | 2008 | 2010 | 2015 | 2016 | EA Analysis Period | | Long Term |
|---------------------------------|------------------|-------|---------|---------|---------|---------|---------|--------------------|---------|-----------|
| | (Short Tons) (a) | | | | | | | 2020 | 2025 | 2030 |
| Beech | 1.3 | 2,385 | 3,532 | 2,940 | 3,295 | 3,200 | 3,200 | 3,200 | 3,200 | 3,200 |
| Cessna | 1.7 | 0 | 57 | 324 | 0 | 0 | 0 | 0 | 0 | 0 |
| Swearingen Metro | 2.0 | | 276 | 18 | 0 | - | - | - | - | - |
| Lear | 2.2 | | 102 | 217 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 2.2 | | 22 | 20 | 0 | - | - | - | - | - |
| Falcon | 2.5 | | 0 | 0 | 0 | - | - | - | - | - |
| ATR | 4.4 | 162 | 0 | 0 | 224 | 250 | 250 | 250 | 250 | 250 |
| Convair | 8.4 | | | 3 | 0 | - | - | - | - | - |
| DC 9-15 | 10.6 | 1 | 8 | 3 | 1 | - | - | - | - | - |
| L-188 | 13.0 | 1 | 2 | 2 | 1 | - | - | - | - | - |
| Boeing 737-200 | 14.0 | | 1 | 160 | 0 | - | - | - | - | - |
| Boeing 737-500 | 14.0 | | 0 | 0 | 0 | - | - | - | - | - |
| Boeing 737-400 | 14.0 | | 0 | 0 | 0 | 100 | 120 | 230 | 260 | 260 |
| DC 9-30 | 18.0 | 3 | 294 | 3 | 4 | - | - | - | - | - |
| DC 9-40 | 18.0 | | 112 | 106 | 0 | - | - | - | - | - |
| Boeing 727-100 | 20.6 | 1 | 28 | 1 | 1 | - | - | - | - | - |
| Boeing 727-200 | 27.6 | 89 | 1,515 | 694 | 123 | 30 | 20 | - | - | - |
| Airbus 310 | 40.1 | 1 | 0 | 179 | 1 | 0 | 0 | 0 | 0 | 0 |
| Boeing 757-200 | 44.0 | 313 | 110 | 230 | 432 | 400 | 400 | 400 | 393 | 500 |
| DC 8-61 | 44.3 | | 11 | 10 | 0 | - | - | - | - | - |
| DC 8-71 | 46.5 | 34 | 140 | 65 | 47 | 25 | 20 | - | - | - |
| DC 8-63 | 49.0 | 1 | 186 | 9 | 1 | - | - | - | - | - |
| DC 8-73 | 53.1 | 266 | 230 | 187 | 367 | 150 | 100 | - | - | - |
| Boeing 767-200 | 54.4 | 192 | 77 | 67 | 265 | 260 | 300 | 360 | 410 | 410 |
| Airbus 300-600 | 54.4 | 11 | 920 | 815 | 15 | 650 | 650 | 720 | 720 | 650 |
| Boeing 767-300 | 65.0 | | 4 | 6 | 0 | - | - | 100 | 160 | 260 |
| DC 10-10 | 70.1 | 508 | 731 | 952 | 701 | 500 | 520 | 402 | 300 | 200 |
| DC 10-30 | 85.3 | 18 | 536 | 20 | 25 | 14 | 0 | 0 | 0 | - |
| Boeing 747-100 | 82.7 | | | 10 | 0 | - | - | - | - | - |
| MD-11 | 99.0 | 541 | 120 | 125 | 747 | 720 | 720 | 720 | 720 | 720 |
| Boeing 747F | 108.5 | | | 0 | 0 | - | - | - | - | - |
| Boeing 747-200 | 109.6 | | 5 | 16 | 0 | - | - | - | - | - |
| Boeing 747-400 | 120.3 | 1 | | | 1 | - | - | - | - | - |
| Boeing 777 | 103.0 | | | | 0 | - | - | - | - | 28 |
| Total Departures (b) | | 4,528 | 9,019 | 7,181 | 6,251 | 6,299 | 6,300 | 6,382 | 6,413 | 6,478 |
| Total Operations (c) | | | 14,361 | 14,361 | 12,499 | 12,598 | 12,600 | 12,764 | 12,826 | 12,956 |
| Cargo Tonnage (d) | | | 126,687 | 102,508 | 89,990 | 102,508 | 102,280 | 102,291 | 102,005 | 101,465 |
| Load Factor (e) | | | | 53.6% | 47.3% | 53.6% | 53.6% | 53.6% | 53.6% | 53.6% |
| Required All-Cargo Capacity (f) | | | | 191,286 | 190,162 | 191,286 | 190,860 | 190,881 | 190,348 | 189,339 |

(a) FAA Economic Values for Evaluation of Federal Aviation Administration Investment and Regulatory Decisions and HNTB research.

(b) Departures estimated so that available capacity matches required all-cargo capacity.

(c) Departures multiplied by 2.

(d) Table A.8.1.

(e) Assumed to remain constant.

(f) Cargo tonnage divided by load factor.

Sources: As noted and HNTB analysis.

Attachment 9

Detailed General Aviation Forecasts

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Table 9.1

Summary of Civil Aircraft Operations Forecast: Minneapolis-St. Paul International Airport

| Year | Single Engine Piston | Multi-Engine Piston | Turboprop | Microjets | Other Jets | Helicopter | Other | Total |
|--|-------------------------|------------------------|-----------|-----------|------------|------------|--------|---------|
| Civilian Based Aircraft Forecast (a) | | | | | | | | |
| 2008 | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 24 |
| 2010 | 0 | 0 | 0 | 1 | 26 | 0 | 0 | 27 |
| 2015 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| 2020 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| 2025 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| 2030 | 0 | 0 | 0 | 1 | 29 | 0 | 0 | 30 |
| FAA Forecast of Active Aircraft (b) | | | | | | | | |
| 2008 | 143,782 | 18,360 | 8,269 | 503 | 11,377 | 10,176 | 34,568 | 227,035 |
| 2010 | 142,024 | 17,945 | 8,423 | 1,211 | 12,452 | 11,130 | 36,584 | 229,769 |
| 2015 | 139,166 | 16,931 | 8,867 | 3,060 | 15,065 | 13,077 | 41,547 | 237,713 |
| 2020 | 138,571 | 15,965 | 9,361 | 4,891 | 17,204 | 14,501 | 44,540 | 245,034 |
| 2025 | 140,213 | 15,017 | 9,787 | 6,705 | 18,972 | 15,904 | 46,498 | 253,094 |
| 2030 | 141,854 | 14,068 | 10,212 | 8,519 | 20,739 | 17,307 | 48,455 | 261,154 |
| FAA Forecast of Hours Flown (000's) (c) | | | | | | | | |
| 2007 | | | | | | | | |
| 2008 | 11,059 | 2,174 | 1,960 | 383 | 3,987 | 3,609 | 1,423 | 24,596 |
| 2010 | 10,035 | 1,984 | 1,909 | 1,032 | 4,293 | 3,866 | 1,432 | 24,552 |
| 2015 | 9,579 | 1,628 | 1,974 | 2,515 | 5,851 | 4,530 | 1,741 | 27,818 |
| 2020 | 10,262 | 1,565 | 2,048 | 3,998 | 7,115 | 5,100 | 2,041 | 32,129 |
| 2025 | 11,247 | 1,569 | 2,135 | 5,438 | 8,209 | 5,673 | 2,292 | 36,562 |
| 2030 | 12,233 | 1,573 | 2,221 | 6,878 | 9,302 | 6,246 | 2,543 | 40,996 |
| Unconstrained Forecast of Total Aircraft Operations (d) | | | | | | | | |
| 2008 | 1,257 | 1,069 | 4,726 | 20 | 23,573 | 40 | - | 30,685 |
| 2010 | 1,141 | 975 | 4,603 | 907 | 25,124 | 43 | - | 32,793 |
| 2015 | 1,089 | 800 | 4,759 | 874 | 31,568 | 50 | - | 39,140 |
| 2020 | 1,166 | 769 | 4,939 | 869 | 33,613 | 57 | - | 41,413 |
| 2025 | 1,278 | 771 | 5,146 | 863 | 35,167 | 63 | - | 43,289 |
| 2030 | 1,390 | 773 | 5,354 | 859 | 36,457 | 69 | - | 44,903 |
| Forecast of Total Aircraft Operations (e) | | | | | | | | |
| 2008 | - | - | - | - | - | - | - | - |
| 2010 | - | - | - | - | - | - | - | - |
| 2015 | 828 | 608 | 3,617 | 664 | 23,996 | 38 | - | 29,751 |
| EA Analysis Period | | | | | | | | |
| 2020 | 843 | 556 | 3,570 | 628 | 24,296 | 41 | - | 29,934 |
| 2025 | 886 | 535 | 3,567 | 598 | 24,373 | 44 | - | 30,003 |
| Long Term | | | | | | | | |
| 2030 | 929 | 517 | 3,578 | 574 | 24,367 | 46 | - | 30,011 |

(a) Table G.6 in Minneapolis-St. Paul Reliever Airports: Activity Forecasts - Technical Report. Extrapolated to 2030.

(b) FAA Aerospace Forecasts: Fiscal Years 2008-2025. Adjusted for higher fuel prices.

(c) FAA Aerospace Forecasts: Fiscal Years 2008-2025. Adjusted for higher fuel prices.

(d) Base year data from ANOMS. Future operations projected to increase at same rate as based aircraft adjusted by estimated change in utilization rate (estimated as FAA ratio of hours flown to active aircraft).

(e) Fleet mix constrained to match general aviation forecast in Table A.9.2.

Sources: As noted and HNTB analysis.

Attachment 10

Hourly AWDPM Distributions

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Table 10.1

Estimated MSP Activity by Hour: July 15, 2010 - Terminal 1

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 3 | 257 | 257 | 2 | 375 | 84 | 5 | 632 | 341 |
| 0600-0659 | 15 | 1230 | 1175 | 18 | 1505 | 469 | 33 | 2735 | 1644 |
| 0700-0759 | 43 | 3070 | 1480 | 30 | 1141 | 381 | 73 | 4211 | 1861 |
| 0800-0859 | 8 | 608 | 457 | 48 | 2895 | 1040 | 56 | 3503 | 1497 |
| 0900-0959 | 52 | 3984 | 1431 | 29 | 2272 | 929 | 81 | 6256 | 2360 |
| 1000-1059 | 48 | 3622 | 1602 | 44 | 3635 | 1644 | 92 | 7257 | 3246 |
| 1100-1159 | 59 | 5000 | 2029 | 11 | 845 | 476 | 70 | 5845 | 2505 |
| 1200-1259 | 2 | 70 | 54 | 44 | 3953 | 1366 | 46 | 4023 | 1420 |
| 1300-1359 | 55 | 4575 | 1986 | 55 | 5187 | 2438 | 110 | 9762 | 4424 |
| 1400-1459 | 36 | 3745 | 1729 | 38 | 2970 | 1112 | 74 | 6715 | 2841 |
| 1500-1559 | 52 | 4688 | 1825 | 23 | 1950 | 1054 | 75 | 6638 | 2879 |
| 1600-1659 | 15 | 1094 | 739 | 53 | 5519 | 2352 | 68 | 6613 | 3091 |
| 1700-1759 | 52 | 5867 | 2382 | 34 | 3795 | 1609 | 86 | 9662 | 3991 |
| 1800-1859 | 17 | 1703 | 1068 | 50 | 3951 | 1564 | 67 | 5654 | 2632 |
| 1900-1959 | 71 | 5779 | 2361 | 18 | 1212 | 515 | 89 | 6991 | 2876 |
| 2000-2059 | 1 | 33 | 11 | 62 | 5545 | 2381 | 63 | 5578 | 2392 |
| 2100-2159 | 54 | 4092 | 1271 | 8 | 764 | 696 | 62 | 4856 | 1967 |
| 2200-2259 | | | | 5 | 563 | 529 | 5 | 563 | 529 |
| 2300-2359 | | | | 11 | 1091 | 969 | 11 | 1091 | 969 |
| Total | 583 | 49417 | 21857 | 584 | 49328 | 21768 | 1167 | 98745 | 43625 |
| Peak | 71 | 5867 | 2382 | 62 | 5545 | 2438 | 110 | 9762 | 4424 |
| Peak Percent | 12.2% | 11.9% | 10.9% | 10.6% | 11.2% | 11.2% | 9.4% | 9.9% | 10.1% |
| Peak 60 Min. | 80 | 6686 | 2763 | 77 | 7013 | 2721 | 110 | 9762 | 4424 |
| Peak Percent | 13.7% | 13.5% | 12.6% | 13.2% | 14.2% | 12.5% | 9.4% | 9.9% | 10.1% |

Source: 2010 Gated Flight Schedule and HNTB analysis.

Table 10.2

Estimated MSP Activity by Hour: July 15, 2010 - Terminal 2

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|-------------|-------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | 0 | 0 | 0 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | | | | 1 | 146 | 146 | 1 | 146 | 146 |
| 0600-0659 | 6 | 624 | 624 | | | | 6 | 624 | 624 |
| 0700-0759 | 4 | 503 | 502 | 1 | 83 | 82 | 5 | 586 | 584 |
| 0800-0859 | 3 | 333 | 332 | | | | 3 | 333 | 332 |
| 0900-0959 | 1 | 109 | 108 | 1 | 104 | 103 | 2 | 213 | 211 |
| 1000-1059 | 1 | 104 | 103 | 2 | 208 | 206 | 3 | 312 | 309 |
| 1100-1159 | 1 | 124 | 123 | 2 | 209 | 207 | 3 | 333 | 330 |
| 1200-1259 | 2 | 231 | 229 | 1 | 124 | 124 | 3 | 355 | 353 |
| 1300-1359 | 1 | 137 | 136 | 3 | 421 | 420 | 4 | 558 | 556 |
| 1400-1459 | 5 | 562 | 561 | 3 | 387 | 386 | 8 | 949 | 947 |
| 1500-1559 | 1 | 137 | 136 | 3 | 390 | 388 | 4 | 527 | 524 |
| 1600-1659 | 3 | 386 | 384 | 2 | 254 | 252 | 5 | 640 | 636 |
| 1700-1759 | 2 | 254 | 252 | 2 | 298 | 284 | 4 | 552 | 536 |
| 1800-1859 | 1 | 137 | 136 | 2 | 274 | 272 | 3 | 411 | 408 |
| 1900-1959 | 2 | 301 | 286 | 2 | 261 | 260 | 4 | 562 | 546 |
| 2000-2059 | 1 | 124 | 123 | 2 | 227 | 226 | 3 | 351 | 349 |
| 2100-2159 | 1 | 149 | 149 | 3 | 350 | 350 | 4 | 499 | 499 |
| 2200-2259 | | | | 2 | 226 | 226 | 2 | 226 | 226 |
| 2300-2359 | | | | 3 | 341 | 341 | 3 | 341 | 341 |
| Total | 35 | 4215 | 4184 | 35 | 4303 | 4273 | 70 | 8518 | 8457 |
| Peak | 6 | 624 | 624 | 3 | 421 | 420 | 8 | 949 | 947 |
| Peak Percent | 17.1% | 14.8% | 14.9% | 8.6% | 9.8% | 9.8% | 11.4% | 11.1% | 11.2% |
| Peak 60 Min. | 8 | 941 | 940 | 5 | 666 | 664 | 8 | 951 | 948 |
| Peak Percent | 22.9% | 22.3% | 22.5% | 14.3% | 15.5% | 15.5% | 11.4% | 11.2% | 11.2% |

Source: 2010 Gated Flight Schedule and HNTB analysis.

Table 10.3

Estimated MSP Activity by Hour: July 15, 2010 - Terminal 1 and Terminal 2

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | | | 0 | | | | | |
| 0200-0259 | 0 | | | 0 | | | | | |
| 0300-0359 | 0 | | | 0 | | | 0 | | |
| 0400-0459 | 0 | | | 0 | | | 0 | | |
| 0500-0559 | 3 | 257 | 257 | 3 | 521 | 230 | 6 | 778 | 487 |
| 0600-0659 | 21 | 1854 | 1799 | 18 | 1505 | 469 | 39 | 3359 | 2268 |
| 0700-0759 | 47 | 3573 | 1982 | 31 | 1224 | 463 | 78 | 4797 | 2445 |
| 0800-0859 | 11 | 941 | 789 | 48 | 2895 | 1040 | 59 | 3836 | 1829 |
| 0900-0959 | 53 | 4093 | 1539 | 30 | 2376 | 1032 | 83 | 6469 | 2571 |
| 1000-1059 | 49 | 3726 | 1705 | 46 | 3843 | 1850 | 95 | 7569 | 3555 |
| 1100-1159 | 60 | 5124 | 2152 | 13 | 1054 | 683 | 73 | 6178 | 2835 |
| 1200-1259 | 4 | 301 | 283 | 45 | 4077 | 1490 | 49 | 4378 | 1773 |
| 1300-1359 | 56 | 4712 | 2122 | 58 | 5608 | 2858 | 114 | 10320 | 4980 |
| 1400-1459 | 41 | 4307 | 2290 | 41 | 3357 | 1498 | 82 | 7664 | 3788 |
| 1500-1559 | 53 | 4825 | 1961 | 26 | 2340 | 1442 | 79 | 7165 | 3403 |
| 1600-1659 | 18 | 1480 | 1123 | 55 | 5773 | 2604 | 73 | 7253 | 3727 |
| 1700-1759 | 54 | 6121 | 2634 | 36 | 4093 | 1893 | 90 | 10214 | 4527 |
| 1800-1859 | 18 | 1840 | 1204 | 52 | 4225 | 1836 | 70 | 6065 | 3040 |
| 1900-1959 | 73 | 6080 | 2647 | 20 | 1473 | 775 | 93 | 7553 | 3422 |
| 2000-2059 | 2 | 157 | 134 | 64 | 5772 | 2607 | 66 | 5929 | 2741 |
| 2100-2159 | 55 | 4241 | 1420 | 11 | 1114 | 1046 | 66 | 5355 | 2466 |
| 2200-2259 | 0 | | | 7 | 789 | 755 | 7 | 789 | 755 |
| 2300-2359 | 0 | | | 14 | 1432 | 1310 | 14 | 1432 | 1310 |
| Total | 618 | 53632 | 26041 | 619 | 53631 | 26041 | 1237 | 107263 | 52082 |
| Peak | 73 | 6121 | 2647 | 64 | 5773 | 2858 | 114 | 10320 | 4980 |
| Peak Percent | 11.8% | 11.4% | 10.2% | 10.3% | 10.8% | 11.0% | 9.2% | 9.6% | 9.6% |
| Peak 60 Min. | 83 | 7124 | 3185 | 80 | 7448 | 3141 | 114 | 10320 | 4980 |
| Peak Percent | 13.4% | 13.3% | 12.2% | 12.9% | 13.9% | 12.1% | 9.2% | 9.6% | 9.6% |

Source: 2010 Gated Flight Schedule and HNTB analysis.

Table 10.4

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | 0 | | |
| 0400-0459 | | | | | | | 0 | | |
| 0500-0559 | 3 | 461 | 461 | 3 | 480 | 118 | 6 | 941 | 579 |
| 0600-0659 | 15 | 1185 | 1132 | 19 | 2052 | 783 | 34 | 3237 | 1915 |
| 0700-0759 | 44 | 3351 | 1604 | 29 | 1609 | 639 | 73 | 4960 | 2243 |
| 0800-0859 | 11 | 835 | 667 | 56 | 3422 | 1302 | 67 | 4257 | 1969 |
| 0900-0959 | 59 | 4779 | 1680 | 31 | 2668 | 1195 | 90 | 7447 | 2875 |
| 1000-1059 | 58 | 4693 | 2119 | 51 | 4745 | 2121 | 109 | 9438 | 4240 |
| 1100-1159 | 60 | 6269 | 2726 | 12 | 1253 | 799 | 72 | 7522 | 3525 |
| 1200-1259 | 4 | 546 | 293 | 53 | 5639 | 2084 | 57 | 6185 | 2377 |
| 1300-1359 | 58 | 5973 | 2699 | 52 | 5785 | 2635 | 110 | 11758 | 5334 |
| 1400-1459 | 38 | 4505 | 2027 | 41 | 3958 | 1535 | 79 | 8463 | 3562 |
| 1500-1559 | 55 | 5882 | 2423 | 20 | 2117 | 1130 | 75 | 7999 | 3553 |
| 1600-1659 | 16 | 1484 | 977 | 58 | 6531 | 2644 | 74 | 8015 | 3621 |
| 1700-1759 | 60 | 6935 | 2641 | 41 | 4537 | 1981 | 101 | 11472 | 4622 |
| 1800-1859 | 19 | 2155 | 1416 | 58 | 5182 | 2160 | 77 | 7337 | 3576 |
| 1900-1959 | 76 | 7023 | 2913 | 21 | 1730 | 668 | 97 | 8753 | 3581 |
| 2000-2059 | 3 | 242 | 136 | 62 | 6262 | 2747 | 65 | 6504 | 2883 |
| 2100-2159 | 55 | 4610 | 1424 | 9 | 972 | 867 | 64 | 5582 | 2291 |
| 2200-2259 | | | | 6 | 671 | 634 | 6 | 671 | 634 |
| 2300-2359 | | | | 11 | 1115 | 1095 | 11 | 1115 | 1095 |
| Total | 634 | 60928 | 27338 | 634 | 60888 | 27297 | 1268 | 121816 | 54635 |
| Peak Hour | 76 | 7023 | 2913 | 62 | 6531 | 2747 | 110 | 11758 | 5334 |
| Peak Percent | 12.0% | 11.5% | 10.7% | 9.8% | 10.7% | 10.1% | 8.7% | 9.7% | 9.8% |
| Peak 60 Min. | 86 | 8055 | 3357 | 88 | 8398 | 3302 | 113 | 11867 | 5345 |
| Peak Percent | 13.6% | 13.2% | 12.3% | 13.9% | 13.8% | 12.1% | 8.9% | 9.7% | 9.8% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.5

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 2
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | | | |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | | | | 1 | 143 | 143 | 1 | 143 | 143 |
| 0600-0659 | 9 | 926 | 926 | 0 | 0 | 0 | 9 | 926 | 926 |
| 0700-0759 | 6 | 640 | 638 | 2 | 232 | 231 | 8 | 872 | 869 |
| 0800-0859 | 4 | 388 | 386 | 0 | 0 | 0 | 4 | 388 | 386 |
| 0900-0959 | 3 | 288 | 285 | 5 | 460 | 455 | 8 | 748 | 740 |
| 1000-1059 | 4 | 420 | 416 | 5 | 504 | 499 | 9 | 924 | 915 |
| 1100-1159 | 3 | 320 | 317 | 1 | 106 | 105 | 4 | 426 | 422 |
| 1200-1259 | 4 | 476 | 472 | 4 | 465 | 462 | 8 | 941 | 934 |
| 1300-1359 | 1 | 135 | 134 | 6 | 762 | 758 | 7 | 897 | 892 |
| 1400-1459 | 8 | 1099 | 1096 | 6 | 808 | 806 | 14 | 1907 | 1902 |
| 1500-1559 | 3 | 409 | 406 | 5 | 680 | 674 | 8 | 1089 | 1080 |
| 1600-1659 | 6 | 816 | 811 | 2 | 235 | 233 | 8 | 1051 | 1044 |
| 1700-1759 | 1 | 134 | 133 | 4 | 536 | 518 | 5 | 670 | 651 |
| 1800-1859 | 3 | 366 | 363 | 4 | 488 | 484 | 7 | 854 | 847 |
| 1900-1959 | 4 | 523 | 505 | 2 | 256 | 255 | 6 | 779 | 760 |
| 2000-2059 | 2 | 225 | 223 | 5 | 572 | 568 | 7 | 797 | 791 |
| 2100-2159 | 4 | 467 | 464 | 6 | 632 | 632 | 10 | 1099 | 1096 |
| 2200-2259 | | | | 3 | 348 | 348 | 3 | 348 | 348 |
| 2300-2359 | | | | 4 | 445 | 445 | 4 | 445 | 445 |
| Total | 65 | 7632 | 7575 | 65 | 7672 | 7616 | 130 | 15304 | 15191 |
| Peak Hour | 9 | 1099 | 1096 | 6 | 808 | 806 | 14 | 1907 | 1902 |
| Peak Percent | 13.8% | 14.4% | 14.5% | 9.2% | 10.5% | 10.6% | 10.8% | 12.5% | 12.5% |
| Peak 60 Min. | 12 | 1271 | 1270 | 8 | 1033 | 1028 | 15 | 2018 | 2011 |
| Peak Percent | 18.5% | 16.7% | 16.8% | 12.3% | 13.5% | 13.5% | 11.5% | 13.2% | 13.2% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.6

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1 and Terminal 2
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0500-0559 | 3 | 461 | 461 | 4 | 623 | 261 | 7 | 1084 | 722 |
| 0600-0659 | 24 | 2111 | 2058 | 19 | 2052 | 783 | 43 | 4163 | 2841 |
| 0700-0759 | 50 | 3991 | 2242 | 31 | 1841 | 870 | 81 | 5832 | 3112 |
| 0800-0859 | 15 | 1223 | 1053 | 56 | 3422 | 1302 | 71 | 4645 | 2355 |
| 0900-0959 | 62 | 5067 | 1965 | 36 | 3128 | 1650 | 98 | 8195 | 3615 |
| 1000-1059 | 62 | 5113 | 2535 | 56 | 5249 | 2620 | 118 | 10362 | 5155 |
| 1100-1159 | 63 | 6589 | 3043 | 13 | 1359 | 904 | 76 | 7948 | 3947 |
| 1200-1259 | 8 | 1022 | 765 | 57 | 6104 | 2546 | 65 | 7126 | 3311 |
| 1300-1359 | 59 | 6108 | 2833 | 58 | 6547 | 3393 | 117 | 12655 | 6226 |
| 1400-1459 | 46 | 5604 | 3123 | 47 | 4766 | 2341 | 93 | 10370 | 5464 |
| 1500-1559 | 58 | 6291 | 2829 | 25 | 2797 | 1804 | 83 | 9088 | 4633 |
| 1600-1659 | 22 | 2300 | 1788 | 60 | 6766 | 2877 | 82 | 9066 | 4665 |
| 1700-1759 | 61 | 7069 | 2774 | 45 | 5073 | 2499 | 106 | 12142 | 5273 |
| 1800-1859 | 22 | 2521 | 1779 | 62 | 5670 | 2644 | 84 | 8191 | 4423 |
| 1900-1959 | 80 | 7546 | 3418 | 23 | 1986 | 923 | 103 | 9532 | 4341 |
| 2000-2059 | 5 | 467 | 359 | 67 | 6834 | 3315 | 72 | 7301 | 3674 |
| 2100-2159 | 59 | 5077 | 1888 | 15 | 1604 | 1499 | 74 | 6681 | 3387 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1019 | 982 | 9 | 1019 | 982 |
| 2300-2359 | 0 | 0 | 0 | 15 | 1560 | 1540 | 15 | 1560 | 1540 |
| Total | 699 | 68560 | 34913 | 699 | 68560 | 34913 | 1398 | 137120 | 69826 |
| Peak Hour | 80 | 7546 | 3418 | 67 | 6834 | 3393 | 118 | 12655 | 6226 |
| Peak Percent | 11.4% | 11.0% | 9.8% | 9.6% | 10.0% | 9.7% | 8.4% | 9.2% | 8.9% |
| Peak 60 Min. | 91 | 8715 | 3998 | 93 | 9074 | 3956 | 119 | 12785 | 6355 |
| Peak Percent | 13.0% | 12.7% | 11.5% | 13.3% | 13.2% | 11.3% | 8.5% | 9.3% | 9.1% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.7

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | 0 | | |
| 0400-0459 | | | | | | | 0 | | |
| 0500-0559 | 1 | 184 | 184 | 3 | 480 | 118 | 4 | 664 | 302 |
| 0600-0659 | 6 | 397 | 366 | 18 | 1932 | 673 | 24 | 2329 | 1039 |
| 0700-0759 | 36 | 2725 | 1009 | 28 | 1525 | 566 | 64 | 4250 | 1575 |
| 0800-0859 | 3 | 205 | 88 | 53 | 3271 | 1158 | 56 | 3476 | 1246 |
| 0900-0959 | 56 | 4537 | 1448 | 25 | 2103 | 663 | 81 | 6640 | 2111 |
| 1000-1059 | 51 | 3968 | 1451 | 44 | 4092 | 1516 | 95 | 8060 | 2967 |
| 1100-1159 | 52 | 5411 | 1917 | 6 | 602 | 206 | 58 | 6013 | 2123 |
| 1200-1259 | 2 | 326 | 100 | 49 | 5133 | 1619 | 51 | 5459 | 1719 |
| 1300-1359 | 50 | 4986 | 1777 | 44 | 4842 | 1749 | 94 | 9828 | 3526 |
| 1400-1459 | 31 | 3717 | 1294 | 35 | 3446 | 1072 | 66 | 7163 | 2366 |
| 1500-1559 | 51 | 5465 | 2041 | 14 | 1473 | 532 | 65 | 6938 | 2573 |
| 1600-1659 | 8 | 672 | 233 | 51 | 5853 | 2024 | 59 | 6525 | 2257 |
| 1700-1759 | 55 | 6405 | 2148 | 33 | 3605 | 1110 | 88 | 10010 | 3258 |
| 1800-1859 | 10 | 1049 | 375 | 52 | 4425 | 1469 | 62 | 5474 | 1844 |
| 1900-1959 | 69 | 6353 | 2307 | 18 | 1566 | 515 | 87 | 7919 | 2822 |
| 2000-2059 | 2 | 188 | 85 | 54 | 5342 | 1891 | 56 | 5530 | 1976 |
| 2100-2159 | 54 | 4469 | 1300 | 4 | 503 | 414 | 58 | 4972 | 1714 |
| 2200-2259 | | | | 2 | 236 | 206 | 2 | 236 | 206 |
| 2300-2359 | | | | 3 | 385 | 385 | 3 | 385 | 385 |
| Total | 537 | 51057 | 18123 | 537 | 50974 | 18046 | 1074 | 102031 | 36169 |
| Peak Hour | 69 | 6405 | 2307 | 54 | 5853 | 2024 | 95 | 10010 | 3526 |
| Peak Percent | 12.8% | 12.5% | 12.7% | 10.1% | 11.5% | 11.2% | 8.8% | 9.8% | 9.7% |
| Peak 60 Min. | 78 | 7223 | 2596 | 80 | 7466 | 2376 | 99 | 10207 | 3580 |
| Peak Percent | 14.5% | 14.1% | 14.3% | 14.9% | 14.6% | 13.2% | 9.2% | 10.0% | 9.9% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.8

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 2
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | | | |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 2 | 277 | 277 | 1 | 143 | 143 | 3 | 420 | 420 |
| 0600-0659 | 18 | 1714 | 1692 | 1 | 120 | 110 | 19 | 1834 | 1802 |
| 0700-0759 | 14 | 1266 | 1233 | 3 | 316 | 304 | 17 | 1582 | 1537 |
| 0800-0859 | 12 | 1018 | 965 | 3 | 151 | 144 | 15 | 1169 | 1109 |
| 0900-0959 | 6 | 530 | 517 | 11 | 1025 | 987 | 17 | 1555 | 1504 |
| 1000-1059 | 11 | 1145 | 1084 | 12 | 1157 | 1104 | 23 | 2302 | 2188 |
| 1100-1159 | 11 | 1178 | 1126 | 7 | 757 | 698 | 18 | 1935 | 1824 |
| 1200-1259 | 6 | 696 | 665 | 8 | 971 | 927 | 14 | 1667 | 1592 |
| 1300-1359 | 9 | 1122 | 1056 | 14 | 1705 | 1644 | 23 | 2827 | 2700 |
| 1400-1459 | 15 | 1887 | 1829 | 12 | 1320 | 1269 | 27 | 3207 | 3098 |
| 1500-1559 | 7 | 826 | 788 | 11 | 1324 | 1272 | 18 | 2150 | 2060 |
| 1600-1659 | 14 | 1628 | 1555 | 9 | 913 | 853 | 23 | 2541 | 2408 |
| 1700-1759 | 6 | 664 | 626 | 12 | 1468 | 1389 | 18 | 2132 | 2015 |
| 1800-1859 | 12 | 1472 | 1404 | 10 | 1245 | 1175 | 22 | 2717 | 2579 |
| 1900-1959 | 11 | 1193 | 1111 | 5 | 420 | 408 | 16 | 1613 | 1519 |
| 2000-2059 | 3 | 279 | 274 | 13 | 1492 | 1424 | 16 | 1771 | 1698 |
| 2100-2159 | 5 | 608 | 588 | 11 | 1101 | 1085 | 16 | 1709 | 1673 |
| 2200-2259 | | | | 7 | 783 | 776 | 7 | 783 | 776 |
| 2300-2359 | | | | 12 | 1175 | 1155 | 12 | 1175 | 1155 |
| Total | 162 | 17503 | 16790 | 162 | 17586 | 16867 | 324 | 35089 | 33657 |
| Peak Hour | 18 | 1887 | 1829 | 14 | 1705 | 1644 | 27 | 3207 | 3098 |
| Peak Percent | 11.1% | 10.8% | 10.9% | 8.6% | 9.7% | 9.7% | 8.3% | 9.1% | 9.2% |
| Peak 60 Min. | 19 | 2147 | 2070 | 17 | 2025 | 1956 | 31 | 3703 | 3575 |
| Peak Percent | 11.7% | 12.3% | 12.3% | 10.5% | 11.5% | 11.6% | 9.6% | 10.6% | 10.6% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.9

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1 and Terminal 2
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0500-0559 | 3 | 461 | 461 | 4 | 623 | 261 | 7 | 1084 | 722 |
| 0600-0659 | 24 | 2111 | 2058 | 19 | 2052 | 783 | 43 | 4163 | 2841 |
| 0700-0759 | 50 | 3991 | 2242 | 31 | 1841 | 870 | 81 | 5832 | 3112 |
| 0800-0859 | 15 | 1223 | 1053 | 56 | 3422 | 1302 | 71 | 4645 | 2355 |
| 0900-0959 | 62 | 5067 | 1965 | 36 | 3128 | 1650 | 98 | 8195 | 3615 |
| 1000-1059 | 62 | 5113 | 2535 | 56 | 5249 | 2620 | 118 | 10362 | 5155 |
| 1100-1159 | 63 | 6589 | 3043 | 13 | 1359 | 904 | 76 | 7948 | 3947 |
| 1200-1259 | 8 | 1022 | 765 | 57 | 6104 | 2546 | 65 | 7126 | 3311 |
| 1300-1359 | 59 | 6108 | 2833 | 58 | 6547 | 3393 | 117 | 12655 | 6226 |
| 1400-1459 | 46 | 5604 | 3123 | 47 | 4766 | 2341 | 93 | 10370 | 5464 |
| 1500-1559 | 58 | 6291 | 2829 | 25 | 2797 | 1804 | 83 | 9088 | 4633 |
| 1600-1659 | 22 | 2300 | 1788 | 60 | 6766 | 2877 | 82 | 9066 | 4665 |
| 1700-1759 | 61 | 7069 | 2774 | 45 | 5073 | 2499 | 106 | 12142 | 5273 |
| 1800-1859 | 22 | 2521 | 1779 | 62 | 5670 | 2644 | 84 | 8191 | 4423 |
| 1900-1959 | 80 | 7546 | 3418 | 23 | 1986 | 923 | 103 | 9532 | 4341 |
| 2000-2059 | 5 | 467 | 359 | 67 | 6834 | 3315 | 72 | 7301 | 3674 |
| 2100-2159 | 59 | 5077 | 1888 | 15 | 1604 | 1499 | 74 | 6681 | 3387 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1019 | 982 | 9 | 1019 | 982 |
| 2300-2359 | 0 | 0 | 0 | 15 | 1560 | 1540 | 15 | 1560 | 1540 |
| Total | 699 | 68560 | 34913 | 699 | 68560 | 34913 | 1398 | 137120 | 69826 |
| Peak Hour | 80 | 7546 | 3418 | 67 | 6834 | 3393 | 118 | 12655 | 6226 |
| Peak Percent | 11.4% | 11.0% | 9.8% | 9.6% | 10.0% | 9.7% | 8.4% | 9.2% | 8.9% |
| Peak 60 Min. | 91 | 8715 | 3998 | 93 | 9074 | 3956 | 119 | 12785 | 6355 |
| Peak Percent | 13.0% | 12.7% | 11.5% | 13.3% | 13.2% | 11.3% | 8.5% | 9.3% | 9.1% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.10

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 3 | 461 | 461 | 3 | 480 | 118 | 6 | 941 | 579 |
| 0600-0659 | 16 | 1259 | 1206 | 19 | 2052 | 783 | 35 | 3311 | 1989 |
| 0700-0759 | 43 | 3274 | 1533 | 29 | 1609 | 639 | 72 | 4883 | 2172 |
| 0800-0859 | 11 | 835 | 667 | 56 | 3422 | 1302 | 67 | 4257 | 1969 |
| 0900-0959 | 60 | 4856 | 1756 | 32 | 2746 | 1272 | 92 | 7602 | 3028 |
| 1000-1059 | 58 | 4707 | 2138 | 52 | 4837 | 2217 | 110 | 9544 | 4355 |
| 1100-1159 | 61 | 6360 | 2816 | 12 | 1253 | 799 | 73 | 7613 | 3615 |
| 1200-1259 | 4 | 546 | 293 | 53 | 5639 | 2084 | 57 | 6185 | 2377 |
| 1300-1359 | 57 | 5852 | 2588 | 51 | 5682 | 2541 | 108 | 11534 | 5129 |
| 1400-1459 | 38 | 4505 | 2027 | 41 | 3958 | 1535 | 79 | 8463 | 3562 |
| 1500-1559 | 55 | 5882 | 2423 | 19 | 2059 | 1077 | 74 | 7941 | 3500 |
| 1600-1659 | 16 | 1526 | 1023 | 59 | 6631 | 2743 | 75 | 8157 | 3766 |
| 1700-1759 | 60 | 6935 | 2641 | 42 | 4635 | 2078 | 102 | 11570 | 4719 |
| 1800-1859 | 20 | 2255 | 1515 | 59 | 5282 | 2259 | 79 | 7537 | 3774 |
| 1900-1959 | 77 | 7119 | 3008 | 21 | 1730 | 668 | 98 | 8849 | 3676 |
| 2000-2059 | 3 | 242 | 136 | 61 | 6169 | 2662 | 64 | 6411 | 2798 |
| 2100-2159 | 55 | 4610 | 1424 | 10 | 1056 | 951 | 65 | 5666 | 2375 |
| 2200-2259 | | | | 6 | 671 | 634 | 6 | 671 | 634 |
| 2300-2359 | | | | 11 | 1115 | 1095 | 11 | 1115 | 1095 |
| Total | 637 | 61224 | 27655 | 637 | 61186 | 27617 | 1274 | 122410 | 55272 |
| Peak | 77 | 7119 | 3008 | 61 | 6631 | 2743 | 110 | 11570 | 5129 |
| Peak Percent | 12.1% | 11.6% | 10.9% | 9.6% | 10.8% | 9.9% | 8.6% | 9.5% | 9.3% |
| Peak 60 Min. | 87 | 8151 | 3452 | 89 | 8496 | 3399 | 114 | 11964 | 5251 |
| Peak Percent | 13.7% | 13.3% | 12.5% | 14.0% | 13.9% | 12.3% | 8.9% | 9.8% | 9.5% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.11

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 2
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | | | |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | | | | 1 | 143 | 143 | 1 | 143 | 143 |
| 0600-0659 | 8 | 852 | 852 | | | | 8 | 852 | 852 |
| 0700-0759 | 7 | 717 | 709 | 2 | 232 | 231 | 9 | 949 | 940 |
| 0800-0859 | 4 | 388 | 386 | | | | 4 | 388 | 386 |
| 0900-0959 | 2 | 211 | 209 | 4 | 382 | 378 | 6 | 593 | 587 |
| 1000-1059 | 4 | 406 | 397 | 4 | 412 | 403 | 8 | 818 | 800 |
| 1100-1159 | 2 | 229 | 227 | 1 | 106 | 105 | 3 | 335 | 332 |
| 1200-1259 | 4 | 476 | 472 | 4 | 465 | 462 | 8 | 941 | 934 |
| 1300-1359 | 2 | 256 | 245 | 7 | 865 | 852 | 9 | 1121 | 1097 |
| 1400-1459 | 8 | 1099 | 1096 | 6 | 808 | 806 | 14 | 1907 | 1902 |
| 1500-1559 | 3 | 409 | 406 | 6 | 738 | 727 | 9 | 1147 | 1133 |
| 1600-1659 | 6 | 774 | 765 | 1 | 135 | 134 | 7 | 909 | 899 |
| 1700-1759 | 1 | 134 | 133 | 3 | 438 | 421 | 4 | 572 | 554 |
| 1800-1859 | 2 | 266 | 264 | 3 | 388 | 385 | 5 | 654 | 649 |
| 1900-1959 | 3 | 427 | 410 | 2 | 256 | 255 | 5 | 683 | 665 |
| 2000-2059 | 2 | 225 | 223 | 6 | 665 | 653 | 8 | 890 | 876 |
| 2100-2159 | 4 | 467 | 464 | 5 | 548 | 548 | 9 | 1015 | 1012 |
| 2200-2259 | | | | 3 | 348 | 348 | 3 | 348 | 348 |
| 2300-2359 | | | | 4 | 445 | 445 | 4 | 445 | 445 |
| Total | 62 | 7336 | 7258 | 62 | 7374 | 7296 | 124 | 14710 | 14554 |
| Peak | 8 | 1099 | 1096 | 7 | 865 | 852 | 14 | 1907 | 1902 |
| Peak Percent | 12.9% | 15.0% | 15.1% | 11.3% | 11.7% | 11.7% | 11.3% | 13.0% | 13.1% |
| Peak 60 Min. | 11 | 1220 | 1207 | 9 | 1136 | 1122 | 16 | 2139 | 2122 |
| Peak Percent | 17.7% | 16.6% | 16.6% | 14.5% | 15.4% | 15.4% | 12.9% | 14.5% | 14.6% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.12

**Estimated MSP Activity by Hour: Average Weekday July 2020 - Terminal 1 and Terminal 2
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|--------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | |
| 0500-0559 | 3 | 461 | 461 | 4 | 623 | 261 | 7 | 1084 | 722 |
| 0600-0659 | 24 | 2111 | 2058 | 19 | 2052 | 783 | 43 | 4163 | 2841 |
| 0700-0759 | 50 | 3991 | 2242 | 31 | 1841 | 870 | 81 | 5832 | 3112 |
| 0800-0859 | 15 | 1223 | 1053 | 56 | 3422 | 1302 | 71 | 4645 | 2355 |
| 0900-0959 | 62 | 5067 | 1965 | 36 | 3128 | 1650 | 98 | 8195 | 3615 |
| 1000-1059 | 62 | 5113 | 2535 | 56 | 5249 | 2620 | 118 | 10362 | 5155 |
| 1100-1159 | 63 | 6589 | 3043 | 13 | 1359 | 904 | 76 | 7948 | 3947 |
| 1200-1259 | 8 | 1022 | 765 | 57 | 6104 | 2546 | 65 | 7126 | 3311 |
| 1300-1359 | 59 | 6108 | 2833 | 58 | 6547 | 3393 | 117 | 12655 | 6226 |
| 1400-1459 | 46 | 5604 | 3123 | 47 | 4766 | 2341 | 93 | 10370 | 5464 |
| 1500-1559 | 58 | 6291 | 2829 | 25 | 2797 | 1804 | 83 | 9088 | 4633 |
| 1600-1659 | 22 | 2300 | 1788 | 60 | 6766 | 2877 | 82 | 9066 | 4665 |
| 1700-1759 | 61 | 7069 | 2774 | 45 | 5073 | 2499 | 106 | 12142 | 5273 |
| 1800-1859 | 22 | 2521 | 1779 | 62 | 5670 | 2644 | 84 | 8191 | 4423 |
| 1900-1959 | 80 | 7546 | 3418 | 23 | 1986 | 923 | 103 | 9532 | 4341 |
| 2000-2059 | 5 | 467 | 359 | 67 | 6834 | 3315 | 72 | 7301 | 3674 |
| 2100-2159 | 59 | 5077 | 1888 | 15 | 1604 | 1499 | 74 | 6681 | 3387 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1019 | 982 | 9 | 1019 | 982 |
| 2300-2359 | 0 | 0 | 0 | 15 | 1560 | 1540 | 15 | 1560 | 1540 |
| Total | 699 | 68560 | 34913 | 699 | 68560 | 34913 | 1398 | 137120 | 69826 |
| Peak | 80 | 7546 | 3418 | 67 | 6834 | 3393 | 118 | 12655 | 6226 |
| Peak Percent | 11.4% | 11.0% | 9.8% | 9.6% | 10.0% | 9.7% | 8.4% | 9.2% | 8.9% |
| Peak 60 Min. | 91 | 8715 | 3998 | 93 | 9074 | 3956 | 119 | 12785 | 6355 |
| Peak Percent | 13.0% | 12.7% | 11.5% | 13.3% | 13.2% | 11.3% | 8.5% | 9.3% | 9.1% |

Source: 2020 Gated Flight Schedule and HNTB analysis.

Table 10.13

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1
Alternative 1 - Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 3 | 479 | 479 | 4 | 621 | 138 | 7 | 1100 | 617 |
| 0600-0659 | 15 | 1237 | 1184 | 21 | 2255 | 809 | 36 | 3492 | 1993 |
| 0700-0759 | 46 | 3504 | 1625 | 31 | 1708 | 604 | 77 | 5212 | 2229 |
| 0800-0859 | 12 | 957 | 774 | 58 | 3991 | 1532 | 70 | 4948 | 2306 |
| 0900-0959 | 61 | 5100 | 1711 | 32 | 2955 | 1287 | 93 | 8055 | 2998 |
| 1000-1059 | 59 | 5276 | 2314 | 53 | 5054 | 2217 | 112 | 10330 | 4531 |
| 1100-1159 | 66 | 6911 | 2897 | 14 | 1420 | 932 | 80 | 8331 | 3829 |
| 1200-1259 | 5 | 610 | 341 | 57 | 6415 | 2353 | 62 | 7025 | 2694 |
| 1300-1359 | 63 | 6810 | 2989 | 57 | 6344 | 2828 | 120 | 13154 | 5817 |
| 1400-1459 | 41 | 4936 | 2189 | 47 | 4863 | 2022 | 88 | 9799 | 4211 |
| 1500-1559 | 61 | 6475 | 2660 | 23 | 2418 | 1253 | 84 | 8893 | 3913 |
| 1600-1659 | 21 | 2465 | 1708 | 66 | 8058 | 3398 | 87 | 10523 | 5106 |
| 1700-1759 | 67 | 8160 | 3044 | 42 | 5259 | 2269 | 109 | 13419 | 5313 |
| 1800-1859 | 20 | 2506 | 1617 | 61 | 5818 | 2302 | 81 | 8324 | 3919 |
| 1900-1959 | 82 | 7939 | 3197 | 22 | 1855 | 807 | 104 | 9794 | 4004 |
| 2000-2059 | 3 | 292 | 183 | 67 | 6553 | 2829 | 70 | 6845 | 3012 |
| 2100-2159 | 58 | 4969 | 1510 | 9 | 1016 | 902 | 67 | 5985 | 2412 |
| 2200-2259 | | | | 6 | 682 | 645 | 6 | 682 | 645 |
| 2300-2359 | | | | 12 | 1247 | 1200 | 12 | 1247 | 1200 |
| Total | 683 | 68626 | 30422 | 683 | 68692 | 30487 | 1366 | 137318 | 60909 |
| Peak Clock Hour | 82 | 8160 | 3197 | 67 | 8058 | 3398 | 120 | 13419 | 5817 |
| Percent | 12.0% | 11.9% | 10.5% | 9.8% | 11.7% | 11.1% | 8.8% | 9.8% | 9.6% |
| Peak 60 minutes | 92 | 9167 | 3706 | 90 | 9399 | 3635 | 122 | 14093 | 5840 |
| Percent | 13.5% | 13.4% | 12.2% | 13.2% | 13.7% | 11.9% | 8.9% | 10.3% | 9.6% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.14

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 2
Alternative 1 - Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | 0 | 0 | 0 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 0 | 0 | 0 | 1 | 145 | 145 | 1 | 145 | 145 |
| 0600-0659 | 9 | 910 | 910 | 0 | 0 | 0 | 9 | 910 | 910 |
| 0700-0759 | 5 | 530 | 528 | 2 | 233 | 232 | 7 | 763 | 760 |
| 0800-0859 | 7 | 611 | 607 | 2 | 163 | 161 | 9 | 774 | 768 |
| 0900-0959 | 4 | 417 | 414 | 7 | 712 | 707 | 11 | 1129 | 1121 |
| 1000-1059 | 6 | 663 | 658 | 6 | 616 | 610 | 12 | 1279 | 1268 |
| 1100-1159 | 4 | 447 | 443 | 2 | 233 | 231 | 6 | 680 | 674 |
| 1200-1259 | 4 | 490 | 486 | 4 | 481 | 478 | 8 | 971 | 964 |
| 1300-1359 | 1 | 169 | 167 | 7 | 923 | 917 | 8 | 1092 | 1084 |
| 1400-1459 | 11 | 1407 | 1403 | 7 | 893 | 891 | 18 | 2300 | 2294 |
| 1500-1559 | 4 | 526 | 523 | 6 | 816 | 809 | 10 | 1342 | 1332 |
| 1600-1659 | 8 | 1115 | 1109 | 2 | 237 | 235 | 10 | 1352 | 1344 |
| 1700-1759 | 3 | 359 | 357 | 10 | 1207 | 1188 | 13 | 1566 | 1545 |
| 1800-1859 | 6 | 796 | 792 | 6 | 714 | 709 | 12 | 1510 | 1501 |
| 1900-1959 | 5 | 656 | 637 | 3 | 390 | 388 | 8 | 1046 | 1025 |
| 2000-2059 | 2 | 238 | 236 | 5 | 582 | 578 | 7 | 820 | 814 |
| 2100-2159 | 4 | 466 | 463 | 6 | 612 | 612 | 10 | 1078 | 1075 |
| 2200-2259 | | | | 3 | 345 | 345 | 3 | 345 | 345 |
| 2300-2359 | | | | 4 | 432 | 432 | 4 | 432 | 432 |
| Total | 83 | 9800 | 9733 | 83 | 9734 | 9668 | 166 | 19534 | 19401 |
| Peak Clock Hour | 11 | 1407 | 1403 | 10 | 1207 | 1188 | 18 | 2300 | 2294 |
| Percent | 13.3% | 14.4% | 14.4% | 12.0% | 12.4% | 12.3% | 10.8% | 11.8% | 11.8% |
| Peak 60 minutes | 11 | 1441 | 1435 | 10 | 1281 | 1274 | 19 | 2446 | 2437 |
| Percent | 13.3% | 14.7% | 14.7% | 12.0% | 13.2% | 13.2% | 11.4% | 12.5% | 12.6% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.15

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1 and Terminal 2
Alternative 1 - Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 3 | 479 | 479 | 5 | 766 | 283 | 8 | 1245 | 762 |
| 0600-0659 | 24 | 2147 | 2094 | 21 | 2255 | 809 | 45 | 4402 | 2903 |
| 0700-0759 | 51 | 4034 | 2153 | 33 | 1941 | 836 | 84 | 5975 | 2989 |
| 0800-0859 | 19 | 1568 | 1381 | 60 | 4154 | 1693 | 79 | 5722 | 3074 |
| 0900-0959 | 65 | 5517 | 2125 | 39 | 3667 | 1994 | 104 | 9184 | 4119 |
| 1000-1059 | 65 | 5939 | 2972 | 59 | 5670 | 2827 | 124 | 11609 | 5799 |
| 1100-1159 | 70 | 7358 | 3340 | 16 | 1653 | 1163 | 86 | 9011 | 4503 |
| 1200-1259 | 9 | 1100 | 827 | 61 | 6896 | 2831 | 70 | 7996 | 3658 |
| 1300-1359 | 64 | 6979 | 3156 | 64 | 7267 | 3745 | 128 | 14246 | 6901 |
| 1400-1459 | 52 | 6343 | 3592 | 54 | 5756 | 2913 | 106 | 12099 | 6505 |
| 1500-1559 | 65 | 7001 | 3183 | 29 | 3234 | 2062 | 94 | 10235 | 5245 |
| 1600-1659 | 29 | 3580 | 2817 | 68 | 8295 | 3633 | 97 | 11875 | 6450 |
| 1700-1759 | 70 | 8519 | 3401 | 52 | 6466 | 3457 | 122 | 14985 | 6858 |
| 1800-1859 | 26 | 3302 | 2409 | 67 | 6532 | 3011 | 93 | 9834 | 5420 |
| 1900-1959 | 87 | 8595 | 3834 | 25 | 2245 | 1195 | 112 | 10840 | 5029 |
| 2000-2059 | 5 | 530 | 419 | 72 | 7135 | 3407 | 77 | 7665 | 3826 |
| 2100-2159 | 62 | 5435 | 1973 | 15 | 1628 | 1514 | 77 | 7063 | 3487 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1027 | 990 | 9 | 1027 | 990 |
| 2300-2359 | 0 | 0 | 0 | 16 | 1679 | 1632 | 16 | 1679 | 1632 |
| Total | 766 | 78426 | 40155 | 766 | 78426 | 40155 | 1532 | 156852 | 80310 |
| Peak Clock Hour | 87 | 8595 | 3834 | 72 | 8295 | 3745 | 128 | 14985 | 6901 |
| Percent | 11.4% | 11.0% | 9.5% | 9.4% | 10.6% | 9.3% | 8.4% | 9.6% | 8.6% |
| Peak 60 minutes | 98 | 9960 | 4513 | 97 | 10305 | 4325 | 134 | 15597 | 7287 |
| Percent | 12.8% | 12.7% | 11.2% | 12.7% | 13.1% | 10.8% | 8.7% | 9.9% | 9.1% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.16

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1
Alternative 2 - Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 1 | 160 | 160 | 4 | 621 | 138 | 5 | 781 | 298 |
| 0600-0659 | 6 | 454 | 424 | 20 | 2134 | 698 | 26 | 2588 | 1122 |
| 0700-0759 | 38 | 2887 | 1041 | 30 | 1624 | 531 | 68 | 4511 | 1572 |
| 0800-0859 | 3 | 218 | 87 | 54 | 3725 | 1274 | 57 | 3943 | 1361 |
| 0900-0959 | 57 | 4809 | 1435 | 25 | 2344 | 714 | 82 | 7153 | 2149 |
| 1000-1059 | 52 | 4562 | 1658 | 46 | 4386 | 1597 | 98 | 8948 | 3255 |
| 1100-1159 | 57 | 5981 | 2017 | 6 | 637 | 215 | 63 | 6618 | 2232 |
| 1200-1259 | 2 | 327 | 95 | 52 | 5806 | 1788 | 54 | 6133 | 1883 |
| 1300-1359 | 54 | 5691 | 1936 | 49 | 5335 | 1877 | 103 | 11026 | 3813 |
| 1400-1459 | 34 | 4106 | 1415 | 40 | 4073 | 1306 | 74 | 8179 | 2721 |
| 1500-1559 | 56 | 5773 | 2019 | 17 | 1668 | 551 | 73 | 7441 | 2570 |
| 1600-1659 | 10 | 1113 | 452 | 56 | 6840 | 2277 | 66 | 7953 | 2729 |
| 1700-1759 | 62 | 7495 | 2429 | 33 | 4164 | 1255 | 95 | 11659 | 3684 |
| 1800-1859 | 10 | 1245 | 441 | 55 | 5041 | 1593 | 65 | 6286 | 2034 |
| 1900-1959 | 74 | 7128 | 2462 | 18 | 1493 | 472 | 92 | 8621 | 2934 |
| 2000-2059 | 2 | 191 | 87 | 58 | 5565 | 1906 | 60 | 5756 | 1993 |
| 2100-2159 | 56 | 4778 | 1335 | 4 | 517 | 420 | 60 | 5295 | 1755 |
| 2200-2259 | | | | 2 | 244 | 214 | 2 | 244 | 214 |
| 2300-2359 | | | | 4 | 520 | 492 | 4 | 520 | 492 |
| Total | 574 | 56918 | 19493 | 574 | 56897 | 19478 | 1148 | 113815 | 38971 |
| Peak Clock Hour | 74 | 7495 | 2462 | 58 | 6840 | 2277 | 103 | 11659 | 3813 |
| Percent | 12.9% | 13.2% | 12.6% | 10.1% | 12.0% | 11.7% | 9.0% | 10.2% | 9.8% |
| Peak 60 minutes | 83 | 8194 | 2816 | 82 | 8461 | 2571 | 106 | 11977 | 3857 |
| Percent | 14.5% | 14.4% | 14.4% | 14.3% | 14.9% | 13.2% | 9.2% | 10.5% | 9.9% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.17

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 2
Alternative 2 - Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | | | |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 2 | 319 | 319 | 1 | 145 | 145 | 3 | 464 | 464 |
| 0600-0659 | 18 | 1693 | 1670 | 1 | 121 | 111 | 19 | 1814 | 1781 |
| 0700-0759 | 13 | 1147 | 1112 | 3 | 317 | 305 | 16 | 1464 | 1417 |
| 0800-0859 | 16 | 1350 | 1294 | 6 | 429 | 419 | 22 | 1779 | 1713 |
| 0900-0959 | 8 | 708 | 690 | 14 | 1323 | 1280 | 22 | 2031 | 1970 |
| 1000-1059 | 13 | 1377 | 1314 | 13 | 1284 | 1230 | 26 | 2661 | 2544 |
| 1100-1159 | 13 | 1377 | 1323 | 10 | 1016 | 948 | 23 | 2393 | 2271 |
| 1200-1259 | 7 | 773 | 732 | 9 | 1090 | 1043 | 16 | 1863 | 1775 |
| 1300-1359 | 10 | 1288 | 1220 | 15 | 1932 | 1868 | 25 | 3220 | 3088 |
| 1400-1459 | 18 | 2237 | 2177 | 14 | 1683 | 1607 | 32 | 3920 | 3784 |
| 1500-1559 | 9 | 1228 | 1164 | 12 | 1566 | 1511 | 21 | 2794 | 2675 |
| 1600-1659 | 19 | 2467 | 2365 | 12 | 1455 | 1356 | 31 | 3922 | 3721 |
| 1700-1759 | 8 | 1024 | 972 | 19 | 2302 | 2202 | 27 | 3326 | 3174 |
| 1800-1859 | 16 | 2057 | 1968 | 12 | 1491 | 1418 | 28 | 3548 | 3386 |
| 1900-1959 | 13 | 1467 | 1372 | 7 | 752 | 723 | 20 | 2219 | 2095 |
| 2000-2059 | 3 | 339 | 332 | 14 | 1570 | 1501 | 17 | 1909 | 1833 |
| 2100-2159 | 6 | 657 | 638 | 11 | 1111 | 1094 | 17 | 1768 | 1732 |
| 2200-2259 | | | | 7 | 783 | 776 | 7 | 783 | 776 |
| 2300-2359 | | | | 12 | 1159 | 1140 | 12 | 1159 | 1140 |
| Total | 192 | 21508 | 20662 | 192 | 21529 | 20677 | 384 | 43037 | 41339 |
| Peak Clock Hour | 19 | 2467 | 2365 | 19 | 2302 | 2202 | 32 | 3922 | 3784 |
| Percent | 9.9% | 11.5% | 11.4% | 9.9% | 10.7% | 10.6% | 8.3% | 9.1% | 9.2% |
| Peak 60 minutes | 20 | 2543 | 2470 | 19 | 2339 | 2267 | 36 | 4497 | 4340 |
| Percent | 10.4% | 11.8% | 12.0% | 9.9% | 10.9% | 11.0% | 9.4% | 10.4% | 10.5% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.18

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1 and Terminal 2
Alternative 2 - Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 3 | 479 | 479 | 5 | 766 | 283 | 8 | 1245 | 762 |
| 0600-0659 | 24 | 2147 | 2094 | 21 | 2255 | 809 | 45 | 4402 | 2903 |
| 0700-0759 | 51 | 4034 | 2153 | 33 | 1941 | 836 | 84 | 5975 | 2989 |
| 0800-0859 | 19 | 1568 | 1381 | 60 | 4154 | 1693 | 79 | 5722 | 3074 |
| 0900-0959 | 65 | 5517 | 2125 | 39 | 3667 | 1994 | 104 | 9184 | 4119 |
| 1000-1059 | 65 | 5939 | 2972 | 59 | 5670 | 2827 | 124 | 11609 | 5799 |
| 1100-1159 | 70 | 7358 | 3340 | 16 | 1653 | 1163 | 86 | 9011 | 4503 |
| 1200-1259 | 9 | 1100 | 827 | 61 | 6896 | 2831 | 70 | 7996 | 3658 |
| 1300-1359 | 64 | 6979 | 3156 | 64 | 7267 | 3745 | 128 | 14246 | 6901 |
| 1400-1459 | 52 | 6343 | 3592 | 54 | 5756 | 2913 | 106 | 12099 | 6505 |
| 1500-1559 | 65 | 7001 | 3183 | 29 | 3234 | 2062 | 94 | 10235 | 5245 |
| 1600-1659 | 29 | 3580 | 2817 | 68 | 8295 | 3633 | 97 | 11875 | 6450 |
| 1700-1759 | 70 | 8519 | 3401 | 52 | 6466 | 3457 | 122 | 14985 | 6858 |
| 1800-1859 | 26 | 3302 | 2409 | 67 | 6532 | 3011 | 93 | 9834 | 5420 |
| 1900-1959 | 87 | 8595 | 3834 | 25 | 2245 | 1195 | 112 | 10840 | 5029 |
| 2000-2059 | 5 | 530 | 419 | 72 | 7135 | 3407 | 77 | 7665 | 3826 |
| 2100-2159 | 62 | 5435 | 1973 | 15 | 1628 | 1514 | 77 | 7063 | 3487 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1027 | 990 | 9 | 1027 | 990 |
| 2300-2359 | 0 | 0 | 0 | 16 | 1679 | 1632 | 16 | 1679 | 1632 |
| Total | 766 | 78426 | 40155 | 766 | 78426 | 40155 | 1532 | 156852 | 80310 |
| Peak Clock Hour | 87 | 8595 | 3834 | 72 | 8295 | 3745 | 128 | 14985 | 6901 |
| Percent | 11.4% | 11.0% | 9.5% | 9.4% | 10.6% | 9.3% | 8.4% | 9.6% | 8.6% |
| Peak 60 minutes | 98 | 9960 | 4513 | 97 | 10305 | 4325 | 134 | 15597 | 7287 |
| Percent | 12.8% | 12.7% | 11.2% | 12.7% | 13.1% | 10.8% | 8.7% | 9.9% | 9.1% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.19

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | 3 | 479 | 479 | 4 | 621 | 138 | 7 | 1100 | 617 |
| 0600-0659 | 15 | 1237 | 1184 | 21 | 2255 | 809 | 36 | 3492 | 1993 |
| 0700-0759 | 45 | 3427 | 1555 | 31 | 1708 | 604 | 76 | 5135 | 2159 |
| 0800-0859 | 12 | 957 | 774 | 58 | 3991 | 1532 | 70 | 4948 | 2306 |
| 0900-0959 | 61 | 5100 | 1711 | 32 | 2955 | 1287 | 93 | 8055 | 2998 |
| 1000-1059 | 58 | 5204 | 2248 | 52 | 4981 | 2150 | 110 | 10185 | 4398 |
| 1100-1159 | 66 | 6911 | 2897 | 14 | 1420 | 932 | 80 | 8331 | 3829 |
| 1200-1259 | 5 | 610 | 341 | 57 | 6415 | 2353 | 62 | 7025 | 2694 |
| 1300-1359 | 62 | 6689 | 2878 | 56 | 6240 | 2733 | 118 | 12929 | 5611 |
| 1400-1459 | 41 | 4936 | 2189 | 47 | 4863 | 2022 | 88 | 9799 | 4211 |
| 1500-1559 | 61 | 6475 | 2660 | 22 | 2360 | 1200 | 83 | 8835 | 3860 |
| 1600-1659 | 20 | 2406 | 1654 | 65 | 7926 | 3281 | 85 | 10332 | 4935 |
| 1700-1759 | 66 | 8022 | 2923 | 42 | 5259 | 2269 | 108 | 13281 | 5192 |
| 1800-1859 | 20 | 2506 | 1617 | 61 | 5818 | 2302 | 81 | 8324 | 3919 |
| 1900-1959 | 82 | 7939 | 3197 | 22 | 1855 | 807 | 104 | 9794 | 4004 |
| 2000-2059 | 3 | 292 | 183 | 66 | 6459 | 2743 | 69 | 6751 | 2926 |
| 2100-2159 | 58 | 4969 | 1510 | 9 | 1016 | 902 | 67 | 5985 | 2412 |
| 2200-2259 | | | | 6 | 682 | 645 | 6 | 682 | 645 |
| 2300-2359 | | | | 12 | 1247 | 1200 | 12 | 1247 | 1200 |
| Total | 678 | 68159 | 30000 | 678 | 68231 | 30069 | 1356 | 136390 | 60069 |
| Peak Clock Hour | 82 | 8022 | 3197 | 66 | 7926 | 3281 | 118 | 13281 | 5611 |
| Percent | 12.1% | 11.8% | 10.7% | 9.7% | 11.6% | 10.9% | 8.7% | 9.7% | 9.3% |
| Peak 60 minutes | 92 | 9167 | 3706 | 90 | 9399 | 3548 | 121 | 13955 | 5745 |
| Percent | 13.6% | 13.4% | 12.4% | 13.3% | 13.8% | 11.8% | 8.9% | 10.2% | 9.6% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.20

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 2
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | | | | | | | | | |
| 0100-0159 | | | | | | | | | |
| 0200-0259 | | | | | | | | | |
| 0300-0359 | | | | | | | | | |
| 0400-0459 | | | | | | | | | |
| 0500-0559 | | | | 1 | 145 | 145 | 1 | 145 | 145 |
| 0600-0659 | 9 | 910 | 910 | 0 | 0 | 0 | 9 | 910 | 910 |
| 0700-0759 | 6 | 607 | 598 | 2 | 233 | 232 | 8 | 840 | 830 |
| 0800-0859 | 7 | 611 | 607 | 2 | 163 | 161 | 9 | 774 | 768 |
| 0900-0959 | 4 | 417 | 414 | 7 | 712 | 707 | 11 | 1129 | 1121 |
| 1000-1059 | 7 | 735 | 724 | 7 | 689 | 677 | 14 | 1424 | 1401 |
| 1100-1159 | 4 | 447 | 443 | 2 | 233 | 231 | 6 | 680 | 674 |
| 1200-1259 | 4 | 490 | 486 | 4 | 481 | 478 | 8 | 971 | 964 |
| 1300-1359 | 2 | 290 | 278 | 8 | 1027 | 1012 | 10 | 1317 | 1290 |
| 1400-1459 | 10 | 1272 | 1268 | 6 | 758 | 756 | 16 | 2030 | 2024 |
| 1500-1559 | 4 | 526 | 523 | 7 | 874 | 862 | 11 | 1400 | 1385 |
| 1600-1659 | 9 | 1174 | 1163 | 3 | 369 | 352 | 12 | 1543 | 1515 |
| 1700-1759 | 4 | 497 | 478 | 10 | 1207 | 1188 | 14 | 1704 | 1666 |
| 1800-1859 | 6 | 796 | 792 | 6 | 714 | 709 | 12 | 1510 | 1501 |
| 1900-1959 | 5 | 656 | 637 | 3 | 390 | 388 | 8 | 1046 | 1025 |
| 2000-2059 | 3 | 373 | 371 | 7 | 811 | 799 | 10 | 1184 | 1170 |
| 2100-2159 | 4 | 466 | 463 | 6 | 612 | 612 | 10 | 1078 | 1075 |
| 2200-2259 | | | | 3 | 345 | 345 | 3 | 345 | 345 |
| 2300-2359 | | | | 4 | 432 | 432 | 4 | 432 | 432 |
| Total | 88 | 10267 | 10155 | 88 | 10195 | 10086 | 176 | 20462 | 20241 |
| Peak Clock Hour | 10 | 1272 | 1268 | 10 | 1207 | 1188 | 16 | 2030 | 2024 |
| Percent | 11.4% | 12.4% | 12.5% | 11.4% | 11.8% | 11.8% | 9.1% | 9.9% | 10.0% |
| Peak 60 minutes | 12 | 1562 | 1546 | 10 | 1250 | 1234 | 19 | 2432 | 2413 |
| Percent | 13.6% | 15.2% | 15.2% | 11.4% | 12.3% | 12.2% | 10.8% | 11.9% | 11.9% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.21

**Estimated MSP Activity by Hour: Average Weekday July 2025 - Terminal 1 and Terminal 2
No Action Alternative**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 1 | 160 | 160 | 1 | 160 | 160 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 3 | 479 | 479 | 5 | 766 | 283 | 8 | 1245 | 762 |
| 0600-0659 | 24 | 2147 | 2094 | 21 | 2255 | 809 | 45 | 4402 | 2903 |
| 0700-0759 | 51 | 4034 | 2153 | 33 | 1941 | 836 | 84 | 5975 | 2989 |
| 0800-0859 | 19 | 1568 | 1381 | 60 | 4154 | 1693 | 79 | 5722 | 3074 |
| 0900-0959 | 65 | 5517 | 2125 | 39 | 3667 | 1994 | 104 | 9184 | 4119 |
| 1000-1059 | 65 | 5939 | 2972 | 59 | 5670 | 2827 | 124 | 11609 | 5799 |
| 1100-1159 | 70 | 7358 | 3340 | 16 | 1653 | 1163 | 86 | 9011 | 4503 |
| 1200-1259 | 9 | 1100 | 827 | 61 | 6896 | 2831 | 70 | 7996 | 3658 |
| 1300-1359 | 64 | 6979 | 3156 | 64 | 7267 | 3745 | 128 | 14246 | 6901 |
| 1400-1459 | 51 | 6208 | 3457 | 53 | 5621 | 2778 | 104 | 11829 | 6235 |
| 1500-1559 | 65 | 7001 | 3183 | 29 | 3234 | 2062 | 94 | 10235 | 5245 |
| 1600-1659 | 29 | 3580 | 2817 | 68 | 8295 | 3633 | 97 | 11875 | 6450 |
| 1700-1759 | 70 | 8519 | 3401 | 52 | 6466 | 3457 | 122 | 14985 | 6858 |
| 1800-1859 | 26 | 3302 | 2409 | 67 | 6532 | 3011 | 93 | 9834 | 5420 |
| 1900-1959 | 87 | 8595 | 3834 | 25 | 2245 | 1195 | 112 | 10840 | 5029 |
| 2000-2059 | 6 | 665 | 554 | 73 | 7270 | 3542 | 79 | 7935 | 4096 |
| 2100-2159 | 62 | 5435 | 1973 | 15 | 1628 | 1514 | 77 | 7063 | 3487 |
| 2200-2259 | 0 | 0 | 0 | 9 | 1027 | 990 | 9 | 1027 | 990 |
| 2300-2359 | 0 | 0 | 0 | 16 | 1679 | 1632 | 16 | 1679 | 1632 |
| Total | 766 | 78426 | 40155 | 766 | 78426 | 40155 | 1532 | 156852 | 80310 |
| Peak Clock Hour | 87 | 8595 | 3834 | 73 | 8295 | 3745 | 128 | 14985 | 6901 |
| Percent | 11.4% | 11.0% | 9.5% | 9.5% | 10.6% | 9.3% | 8.4% | 9.6% | 8.6% |
| Peak 60 minutes | 98 | 9960 | 4513 | 97 | 10305 | 4325 | 134 | 15597 | 7152 |
| Percent | 12.8% | 12.7% | 11.2% | 12.7% | 13.1% | 10.8% | 8.7% | 9.9% | 8.9% |

Source: 2025 Gated Flight Schedule and HNTB analysis.

Table 10.22

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 4 | 635 | 635 | 5 | 938 | 230 | 10 | 1574 | 865 |
| 0600-0659 | 17 | 1514 | 1375 | 23 | 2663 | 994 | 40 | 4177 | 2368 |
| 0700-0759 | 50 | 4119 | 1880 | 34 | 2038 | 742 | 84 | 6156 | 2622 |
| 0800-0859 | 14 | 1224 | 935 | 62 | 4538 | 1762 | 76 | 5762 | 2697 |
| 0900-0959 | 66 | 5789 | 1980 | 35 | 3401 | 1490 | 100 | 9191 | 3470 |
| 1000-1059 | 64 | 5983 | 2636 | 57 | 5699 | 2513 | 121 | 11682 | 5149 |
| 1100-1159 | 71 | 7785 | 3291 | 16 | 1723 | 1102 | 87 | 9508 | 4393 |
| 1200-1259 | 6 | 842 | 461 | 61 | 7190 | 2663 | 68 | 8032 | 3124 |
| 1300-1359 | 68 | 7674 | 3405 | 61 | 7110 | 3183 | 129 | 14784 | 6588 |
| 1400-1459 | 44 | 5569 | 2465 | 51 | 5486 | 2297 | 95 | 11055 | 4762 |
| 1500-1559 | 66 | 7304 | 3025 | 25 | 2813 | 1452 | 91 | 10117 | 4477 |
| 1600-1659 | 23 | 2863 | 1946 | 71 | 8990 | 3812 | 94 | 11853 | 5758 |
| 1700-1759 | 72 | 9161 | 3457 | 45 | 5921 | 2567 | 117 | 15082 | 6024 |
| 1800-1859 | 22 | 2921 | 1859 | 65 | 6535 | 2606 | 88 | 9457 | 4465 |
| 1900-1959 | 88 | 8917 | 3614 | 24 | 2198 | 964 | 112 | 11115 | 4578 |
| 2000-2059 | 4 | 492 | 297 | 72 | 7340 | 3185 | 76 | 7833 | 3483 |
| 2100-2159 | 63 | 5645 | 1755 | 10 | 1275 | 1067 | 73 | 6920 | 2823 |
| 2200-2259 | 0 | 0 | 0 | 7 | 913 | 786 | 7 | 913 | 786 |
| 2300-2359 | 0 | 0 | 0 | 14 | 1530 | 1396 | 14 | 1530 | 1396 |
| Total | 742 | 78438 | 35016 | 742 | 78583 | 35091 | 1483 | 157021 | 70107 |
| Peak Clock Hour | 88 | 9161 | 3614 | 72 | 8990 | 3812 | 129 | 15082 | 6588 |
| Percent | 11.9% | 11.7% | 10.3% | 9.7% | 11.4% | 10.9% | 8.7% | 9.6% | 9.4% |
| Peak 60 minutes | 99 | 10271 | 4180 | 96 | 10527 | 4102 | 131 | 15870 | 6621 |
| Percent | 13.3% | 13.1% | 11.9% | 13.0% | 13.4% | 11.7% | 8.9% | 10.1% | 9.4% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.23

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 2
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 0 | 0 | 0 | 1 | 185 | 185 | 1 | 185 | 185 |
| 0600-0659 | 10 | 1047 | 1047 | 0 | 0 | 0 | 10 | 1047 | 1047 |
| 0700-0759 | 5 | 610 | 608 | 2 | 281 | 281 | 8 | 891 | 889 |
| 0800-0859 | 8 | 699 | 699 | 2 | 203 | 203 | 10 | 903 | 902 |
| 0900-0959 | 4 | 485 | 477 | 8 | 807 | 806 | 12 | 1292 | 1282 |
| 1000-1059 | 6 | 757 | 757 | 6 | 701 | 699 | 13 | 1458 | 1456 |
| 1100-1159 | 4 | 518 | 510 | 2 | 280 | 280 | 7 | 798 | 790 |
| 1200-1259 | 4 | 566 | 559 | 4 | 553 | 553 | 9 | 1119 | 1112 |
| 1300-1359 | 1 | 211 | 192 | 8 | 1039 | 1038 | 9 | 1250 | 1230 |
| 1400-1459 | 12 | 1615 | 1615 | 8 | 1009 | 1009 | 19 | 2624 | 2624 |
| 1500-1559 | 4 | 605 | 602 | 6 | 921 | 918 | 11 | 1527 | 1520 |
| 1600-1659 | 9 | 1277 | 1276 | 2 | 285 | 285 | 11 | 1561 | 1561 |
| 1700-1759 | 3 | 421 | 411 | 11 | 1351 | 1337 | 14 | 1772 | 1748 |
| 1800-1859 | 6 | 912 | 912 | 6 | 809 | 808 | 13 | 1722 | 1720 |
| 1900-1959 | 5 | 749 | 733 | 3 | 454 | 454 | 9 | 1203 | 1187 |
| 2000-2059 | 2 | 287 | 272 | 5 | 664 | 663 | 8 | 951 | 935 |
| 2100-2159 | 4 | 539 | 533 | 6 | 701 | 701 | 11 | 1240 | 1234 |
| 2200-2259 | 0 | 0 | 0 | 3 | 406 | 406 | 3 | 406 | 406 |
| 2300-2359 | 0 | 0 | 0 | 4 | 502 | 502 | 4 | 502 | 502 |
| Total | 90 | 11298 | 11203 | 90 | 11153 | 11128 | 180 | 22451 | 22331 |
| Peak Clock Hour | 12 | 1615 | 1615 | 11 | 1351 | 1337 | 19 | 2624 | 2624 |
| Percent | 13.1% | 14.3% | 14.4% | 11.9% | 12.1% | 12.0% | 10.7% | 11.7% | 11.7% |
| Peak 60 minutes | 12 | 1617 | 1617 | 11 | 1432 | 1432 | 20 | 2747 | 2747 |
| Percent | 13.1% | 14.3% | 14.4% | 11.9% | 12.8% | 12.9% | 11.3% | 12.2% | 12.3% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.24

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1 and Terminal 2
Alternative 1: Airlines Remain**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 4 | 635 | 635 | 6 | 1123 | 415 | 11 | 1758 | 1051 |
| 0600-0659 | 27 | 2561 | 2422 | 23 | 2663 | 994 | 50 | 5224 | 3416 |
| 0700-0759 | 55 | 4728 | 2487 | 36 | 2319 | 1023 | 91 | 7047 | 3511 |
| 0800-0859 | 21 | 1923 | 1633 | 65 | 4742 | 1965 | 86 | 6665 | 3598 |
| 0900-0959 | 70 | 6274 | 2456 | 42 | 4208 | 2296 | 112 | 10483 | 4752 |
| 1000-1059 | 70 | 6739 | 3394 | 63 | 6401 | 3211 | 134 | 13140 | 6605 |
| 1100-1159 | 75 | 8303 | 3801 | 18 | 2004 | 1383 | 93 | 10307 | 5183 |
| 1200-1259 | 11 | 1408 | 1020 | 66 | 7743 | 3216 | 76 | 9151 | 4236 |
| 1300-1359 | 69 | 7885 | 3597 | 69 | 8149 | 4220 | 138 | 16034 | 7817 |
| 1400-1459 | 56 | 7184 | 4080 | 58 | 6495 | 3306 | 114 | 13679 | 7386 |
| 1500-1559 | 70 | 7909 | 3627 | 32 | 3734 | 2371 | 102 | 11644 | 5998 |
| 1600-1659 | 32 | 4140 | 3222 | 73 | 9274 | 4097 | 105 | 13414 | 7319 |
| 1700-1759 | 75 | 9582 | 3868 | 56 | 7272 | 3904 | 131 | 16854 | 7772 |
| 1800-1859 | 29 | 3834 | 2771 | 72 | 7345 | 3414 | 101 | 11178 | 6184 |
| 1900-1959 | 93 | 9666 | 4347 | 28 | 2652 | 1418 | 121 | 12317 | 5765 |
| 2000-2059 | 6 | 780 | 569 | 77 | 8005 | 3849 | 84 | 8784 | 4418 |
| 2100-2159 | 67 | 6184 | 2288 | 17 | 1977 | 1768 | 84 | 8160 | 4057 |
| 2200-2259 | 0 | 0 | 0 | 11 | 1319 | 1192 | 11 | 1319 | 1192 |
| 2300-2359 | 0 | 0 | 0 | 18 | 2032 | 1898 | 18 | 2032 | 1898 |
| Total | 832 | 89736 | 46219 | 832 | 89736 | 46219 | 1663 | 179472 | 92438 |
| Peak Clock Hour | 93 | 9666 | 4347 | 77 | 9274 | 4220 | 138 | 16854 | 7817 |
| Percent | 11.2% | 10.8% | 9.4% | 9.3% | 10.3% | 9.1% | 8.3% | 9.4% | 8.5% |
| Peak 60 minutes | 105 | 11160 | 5099 | 104 | 11464 | 4858 | 144 | 17576 | 8273 |
| Percent | 12.6% | 12.4% | 11.0% | 12.5% | 12.8% | 10.5% | 8.7% | 9.8% | 9.0% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.25

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 2 | 228 | 228 | 5 | 909 | 202 | 7 | 1138 | 430 |
| 0600-0659 | 7 | 642 | 520 | 22 | 2477 | 817 | 29 | 3119 | 1338 |
| 0700-0759 | 41 | 3411 | 1203 | 33 | 1918 | 633 | 74 | 5329 | 1836 |
| 0800-0859 | 4 | 382 | 147 | 58 | 4217 | 1450 | 62 | 4600 | 1597 |
| 0900-0959 | 61 | 5441 | 1639 | 27 | 2704 | 832 | 89 | 8144 | 2471 |
| 1000-1059 | 56 | 5168 | 1886 | 49 | 4939 | 1803 | 105 | 10107 | 3688 |
| 1100-1159 | 61 | 6732 | 2283 | 7 | 836 | 284 | 68 | 7568 | 2567 |
| 1200-1259 | 3 | 502 | 156 | 56 | 6494 | 2013 | 59 | 6996 | 2169 |
| 1300-1359 | 58 | 6412 | 2193 | 53 | 5976 | 2109 | 111 | 12388 | 4302 |
| 1400-1459 | 37 | 4666 | 1617 | 43 | 4595 | 1482 | 80 | 9261 | 3099 |
| 1500-1559 | 60 | 6503 | 2285 | 19 | 1963 | 652 | 79 | 8466 | 2937 |
| 1600-1659 | 11 | 1368 | 551 | 60 | 7625 | 2550 | 71 | 8993 | 3101 |
| 1700-1759 | 67 | 8400 | 2739 | 36 | 4693 | 1424 | 102 | 13093 | 4163 |
| 1800-1859 | 11 | 1514 | 539 | 59 | 5655 | 1798 | 70 | 7169 | 2337 |
| 1900-1959 | 79 | 7996 | 2775 | 20 | 1773 | 567 | 99 | 9769 | 3343 |
| 2000-2059 | 3 | 353 | 147 | 62 | 6229 | 2141 | 65 | 6581 | 2289 |
| 2100-2159 | 60 | 5406 | 1528 | 5 | 704 | 509 | 65 | 6111 | 2038 |
| 2200-2259 | 0 | 0 | 0 | 3 | 406 | 284 | 3 | 406 | 284 |
| 2300-2359 | 0 | 0 | 0 | 5 | 707 | 588 | 5 | 707 | 588 |
| Total | 623 | 65124 | 22437 | 623 | 65101 | 22419 | 1246 | 130225 | 44856 |
| Peak Clock Hour | 79 | 8400 | 2775 | 62 | 7625 | 2550 | 111 | 13093 | 4302 |
| Percent | 12.7% | 12.9% | 12.4% | 10.0% | 11.7% | 11.4% | 8.9% | 10.1% | 9.6% |
| Peak 60 minutes | 89 | 9170 | 3167 | 88 | 9464 | 2896 | 114 | 13480 | 4370 |
| Percent | 14.3% | 14.1% | 14.1% | 14.1% | 14.5% | 12.9% | 9.2% | 10.4% | 9.7% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.26

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 2
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 2 | 407 | 407 | 1 | 214 | 214 | 4 | 621 | 621 |
| 0600-0659 | 19 | 1919 | 1902 | 1 | 186 | 176 | 21 | 2105 | 2078 |
| 0700-0759 | 14 | 1317 | 1285 | 3 | 401 | 390 | 18 | 1719 | 1674 |
| 0800-0859 | 17 | 1541 | 1486 | 7 | 524 | 515 | 24 | 2065 | 2001 |
| 0900-0959 | 9 | 834 | 818 | 15 | 1505 | 1464 | 24 | 2339 | 2281 |
| 1000-1059 | 14 | 1571 | 1508 | 14 | 1462 | 1409 | 28 | 3033 | 2917 |
| 1100-1159 | 14 | 1571 | 1518 | 11 | 1168 | 1098 | 25 | 2739 | 2616 |
| 1200-1259 | 8 | 905 | 864 | 10 | 1249 | 1203 | 18 | 2155 | 2067 |
| 1300-1359 | 11 | 1473 | 1404 | 16 | 2173 | 2111 | 27 | 3646 | 3516 |
| 1400-1459 | 19 | 2518 | 2463 | 15 | 1900 | 1824 | 34 | 4418 | 4287 |
| 1500-1559 | 10 | 1407 | 1342 | 13 | 1771 | 1718 | 23 | 3178 | 3060 |
| 1600-1659 | 20 | 2772 | 2671 | 13 | 1650 | 1548 | 33 | 4421 | 4218 |
| 1700-1759 | 9 | 1182 | 1130 | 20 | 2579 | 2479 | 29 | 3761 | 3609 |
| 1800-1859 | 17 | 2320 | 2232 | 13 | 1689 | 1616 | 30 | 4009 | 3847 |
| 1900-1959 | 14 | 1670 | 1572 | 8 | 878 | 850 | 22 | 2548 | 2423 |
| 2000-2059 | 3 | 427 | 421 | 15 | 1776 | 1707 | 19 | 2203 | 2129 |
| 2100-2159 | 7 | 778 | 760 | 12 | 1272 | 1259 | 19 | 2050 | 2019 |
| 2200-2259 | 0 | 0 | 0 | 8 | 912 | 909 | 8 | 912 | 909 |
| 2300-2359 | 0 | 0 | 0 | 13 | 1325 | 1310 | 13 | 1325 | 1310 |
| Total | 208 | 24612 | 23782 | 208 | 24635 | 23800 | 417 | 49246 | 47582 |
| Peak Clock Hour | 20 | 2772 | 2671 | 20 | 2579 | 2479 | 34 | 4421 | 4287 |
| Percent | 9.8% | 11.3% | 11.2% | 9.8% | 10.5% | 10.4% | 8.3% | 9.0% | 9.0% |
| Peak 60 minutes | 21 | 2853 | 2787 | 20 | 2617 | 2551 | 39 | 5062 | 4910 |
| Percent | 10.3% | 11.6% | 11.7% | 9.8% | 10.6% | 10.7% | 9.3% | 10.3% | 10.3% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.27

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1 and Terminal 2
Alternative 2: Airlines Relocate**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 4 | 635 | 635 | 6 | 1123 | 415 | 11 | 1758 | 1051 |
| 0600-0659 | 27 | 2561 | 2422 | 23 | 2663 | 994 | 50 | 5224 | 3416 |
| 0700-0759 | 55 | 4728 | 2487 | 36 | 2319 | 1023 | 91 | 7047 | 3511 |
| 0800-0859 | 21 | 1923 | 1633 | 65 | 4742 | 1965 | 86 | 6665 | 3598 |
| 0900-0959 | 70 | 6274 | 2456 | 42 | 4208 | 2296 | 112 | 10483 | 4752 |
| 1000-1059 | 70 | 6739 | 3394 | 63 | 6401 | 3211 | 134 | 13140 | 6605 |
| 1100-1159 | 75 | 8303 | 3801 | 18 | 2004 | 1383 | 93 | 10307 | 5183 |
| 1200-1259 | 11 | 1408 | 1020 | 66 | 7743 | 3216 | 76 | 9151 | 4236 |
| 1300-1359 | 69 | 7885 | 3597 | 69 | 8149 | 4220 | 138 | 16034 | 7817 |
| 1400-1459 | 56 | 7184 | 4080 | 58 | 6495 | 3306 | 114 | 13679 | 7386 |
| 1500-1559 | 70 | 7909 | 3627 | 32 | 3734 | 2371 | 102 | 11644 | 5998 |
| 1600-1659 | 32 | 4140 | 3222 | 73 | 9274 | 4097 | 105 | 13414 | 7319 |
| 1700-1759 | 75 | 9582 | 3868 | 56 | 7272 | 3904 | 131 | 16854 | 7772 |
| 1800-1859 | 29 | 3834 | 2771 | 72 | 7345 | 3414 | 101 | 11178 | 6184 |
| 1900-1959 | 93 | 9666 | 4347 | 28 | 2652 | 1418 | 121 | 12317 | 5765 |
| 2000-2059 | 6 | 780 | 569 | 77 | 8005 | 3849 | 84 | 8784 | 4418 |
| 2100-2159 | 67 | 6184 | 2288 | 17 | 1977 | 1768 | 84 | 8160 | 4057 |
| 2200-2259 | 0 | 0 | 0 | 11 | 1319 | 1192 | 11 | 1319 | 1192 |
| 2300-2359 | 0 | 0 | 0 | 18 | 2032 | 1898 | 18 | 2032 | 1898 |
| Total | 832 | 89736 | 46219 | 832 | 89736 | 46219 | 1663 | 179472 | 92438 |
| Peak Clock Hour | 93 | 9666 | 4347 | 77 | 9274 | 4220 | 138 | 16854 | 7817 |
| Percent | 11.2% | 10.8% | 9.4% | 9.3% | 10.3% | 9.1% | 8.3% | 9.4% | 8.5% |
| Peak 60 minutes | 104 | 11160 | 5099 | 104 | 11464 | 4858 | 144 | 17576 | 8273 |
| Percent | 12.5% | 12.4% | 11.0% | 12.5% | 12.8% | 10.5% | 8.7% | 9.8% | 9.0% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.28

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1
No Action**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 4 | 635 | 635 | 5 | 847 | 229 | 10 | 1483 | 864 |
| 0600-0659 | 17 | 1525 | 1386 | 23 | 2663 | 994 | 40 | 4188 | 2380 |
| 0700-0759 | 49 | 4032 | 1798 | 34 | 2038 | 741 | 82 | 6070 | 2538 |
| 0800-0859 | 14 | 1223 | 933 | 62 | 4537 | 1761 | 76 | 5760 | 2694 |
| 0900-0959 | 66 | 5788 | 1971 | 35 | 3400 | 1489 | 100 | 9188 | 3460 |
| 1000-1059 | 63 | 5902 | 2564 | 56 | 5618 | 2438 | 118 | 11520 | 5002 |
| 1100-1159 | 71 | 7783 | 3283 | 16 | 1722 | 1101 | 87 | 9506 | 4384 |
| 1200-1259 | 6 | 841 | 455 | 61 | 7189 | 2662 | 67 | 8030 | 3116 |
| 1300-1359 | 67 | 7539 | 3262 | 60 | 6995 | 3077 | 127 | 14534 | 6339 |
| 1400-1459 | 44 | 5602 | 2497 | 51 | 5487 | 2296 | 95 | 11089 | 4794 |
| 1500-1559 | 66 | 7302 | 3020 | 24 | 2748 | 1393 | 90 | 10050 | 4413 |
| 1600-1659 | 22 | 2818 | 1906 | 70 | 8843 | 3682 | 92 | 11661 | 5588 |
| 1700-1759 | 71 | 9007 | 3312 | 45 | 5920 | 2566 | 116 | 14927 | 5877 |
| 1800-1859 | 22 | 2929 | 1866 | 65 | 6534 | 2604 | 88 | 9463 | 4470 |
| 1900-1959 | 88 | 8916 | 3614 | 24 | 2197 | 963 | 112 | 11112 | 4577 |
| 2000-2059 | 4 | 491 | 280 | 71 | 7235 | 3089 | 75 | 7726 | 3369 |
| 2100-2159 | 63 | 5644 | 1748 | 10 | 1274 | 1066 | 73 | 6918 | 2814 |
| 2200-2259 | 0 | 0 | 0 | 7 | 912 | 785 | 7 | 912 | 785 |
| 2300-2359 | 0 | 0 | 0 | 14 | 1619 | 1395 | 14 | 1619 | 1395 |
| Total | 736 | 77978 | 34530 | 736 | 78058 | 34610 | 1472 | 156036 | 69140 |
| Peak Clock Hour | 88 | 9007 | 3614 | 71 | 8843 | 3682 | 127 | 14927 | 6339 |
| Percent | 12.0% | 11.6% | 10.5% | 9.6% | 11.3% | 10.6% | 8.6% | 9.6% | 9.2% |
| Peak 60 minutes | 99 | 10270 | 4179 | 96 | 10526 | 4005 | 130 | 15716 | 6514 |
| Percent | 13.4% | 13.2% | 12.1% | 13.1% | 13.5% | 11.6% | 8.9% | 10.1% | 9.4% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.29

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 2
No Action**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|--------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 0 | 0 | 0 | 1 | 186 | 186 | 1 | 186 | 186 |
| 0600-0659 | 10 | 1036 | 1036 | 0 | 0 | 0 | 10 | 1036 | 1036 |
| 0700-0759 | 7 | 696 | 690 | 2 | 282 | 282 | 9 | 977 | 972 |
| 0800-0859 | 8 | 700 | 700 | 2 | 205 | 204 | 10 | 905 | 904 |
| 0900-0959 | 4 | 486 | 486 | 8 | 808 | 807 | 12 | 1294 | 1293 |
| 1000-1059 | 8 | 837 | 830 | 8 | 783 | 774 | 15 | 1620 | 1603 |
| 1100-1159 | 4 | 519 | 518 | 2 | 282 | 281 | 7 | 801 | 799 |
| 1200-1259 | 4 | 567 | 566 | 4 | 554 | 554 | 9 | 1121 | 1120 |
| 1300-1359 | 2 | 346 | 335 | 9 | 1154 | 1144 | 11 | 1500 | 1479 |
| 1400-1459 | 11 | 1433 | 1433 | 6 | 861 | 861 | 17 | 2294 | 2294 |
| 1500-1559 | 4 | 607 | 607 | 8 | 986 | 978 | 12 | 1594 | 1585 |
| 1600-1659 | 10 | 1322 | 1316 | 3 | 431 | 415 | 13 | 1753 | 1731 |
| 1700-1759 | 4 | 574 | 557 | 11 | 1352 | 1338 | 15 | 1927 | 1895 |
| 1800-1859 | 7 | 905 | 905 | 6 | 810 | 809 | 13 | 1715 | 1714 |
| 1900-1959 | 5 | 750 | 733 | 3 | 455 | 455 | 9 | 1205 | 1188 |
| 2000-2059 | 3 | 438 | 438 | 8 | 917 | 908 | 11 | 1355 | 1347 |
| 2100-2159 | 4 | 540 | 540 | 6 | 702 | 702 | 11 | 1242 | 1242 |
| 2200-2259 | 0 | 0 | 0 | 3 | 407 | 407 | 3 | 407 | 407 |
| 2300-2359 | 0 | 0 | 0 | 4 | 503 | 503 | 4 | 503 | 503 |
| Total | 96 | 11758 | 11689 | 96 | 11678 | 11609 | 191 | 23436 | 23298 |
| Peak Clock Hour | 11 | 1433 | 1433 | 11 | 1352 | 1338 | 17 | 2294 | 2294 |
| Percent | 11.3% | 12.2% | 12.3% | 11.2% | 11.6% | 11.5% | 9.0% | 9.8% | 9.8% |
| Peak 60 minutes | 13 | 1749 | 1741 | 11 | 1398 | 1389 | 20 | 2731 | 2723 |
| Percent | 13.5% | 14.9% | 14.9% | 11.2% | 12.0% | 12.0% | 10.7% | 11.7% | 11.7% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Table 10.30

**Estimated MSP O&D Activity by Hour: Average Weekday July 2030 - Terminal 1 and Terminal 2
No Action**

| Hour | Departures | | | Arrivals | | | Departures and Arrivals | | |
|-----------------|----------------|--------------|--------------|---------------|--------------|--------------|-------------------------|---------------|--------------|
| | Aircraft Dept. | Enplanements | Originations | Aircraft Arr. | Deplanements | Terminations | Aircraft Ops | Passengers | O&D |
| 0000-0059 | 0 | 0 | 0 | 2 | 280 | 280 | 2 | 280 | 280 |
| 0100-0159 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0200-0259 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0300-0359 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0400-0459 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0500-0559 | 4 | 635 | 635 | 6 | 1033 | 415 | 11 | 1668 | 1051 |
| 0600-0659 | 27 | 2561 | 2422 | 23 | 2663 | 994 | 50 | 5224 | 3416 |
| 0700-0759 | 55 | 4728 | 2487 | 36 | 2319 | 1023 | 91 | 7047 | 3511 |
| 0800-0859 | 21 | 1923 | 1633 | 65 | 4742 | 1965 | 86 | 6665 | 3598 |
| 0900-0959 | 70 | 6274 | 2456 | 42 | 4208 | 2296 | 112 | 10483 | 4752 |
| 1000-1059 | 70 | 6739 | 3394 | 63 | 6401 | 3211 | 134 | 13140 | 6605 |
| 1100-1159 | 75 | 8303 | 3801 | 18 | 2004 | 1383 | 93 | 10307 | 5183 |
| 1200-1259 | 11 | 1408 | 1020 | 66 | 7743 | 3216 | 76 | 9151 | 4236 |
| 1300-1359 | 69 | 7885 | 3597 | 69 | 8149 | 4220 | 138 | 16034 | 7817 |
| 1400-1459 | 55 | 7036 | 3930 | 57 | 6347 | 3157 | 112 | 13383 | 7088 |
| 1500-1559 | 70 | 7909 | 3627 | 32 | 3734 | 2371 | 102 | 11644 | 5998 |
| 1600-1659 | 32 | 4140 | 3222 | 73 | 9274 | 4097 | 105 | 13414 | 7319 |
| 1700-1759 | 75 | 9582 | 3868 | 56 | 7272 | 3904 | 131 | 16854 | 7772 |
| 1800-1859 | 29 | 3834 | 2771 | 72 | 7345 | 3414 | 101 | 11178 | 6184 |
| 1900-1959 | 93 | 9666 | 4347 | 28 | 2652 | 1418 | 121 | 12317 | 5765 |
| 2000-2059 | 7 | 928 | 718 | 78 | 8152 | 3997 | 86 | 9081 | 4715 |
| 2100-2159 | 67 | 6184 | 2288 | 17 | 1977 | 1768 | 84 | 8160 | 4057 |
| 2200-2259 | 0 | 0 | 0 | 11 | 1319 | 1192 | 11 | 1319 | 1192 |
| 2300-2359 | 0 | 0 | 0 | 18 | 2122 | 1898 | 18 | 2122 | 1898 |
| Total | 832 | 89736 | 46219 | 832 | 89736 | 46219 | 1663 | 179472 | 92438 |
| Peak Clock Hour | 93 | 9666 | 4347 | 78 | 9274 | 4220 | 138 | 16854 | 7817 |
| Percent | 11.2% | 10.8% | 9.4% | 9.4% | 10.3% | 9.1% | 8.3% | 9.4% | 8.5% |
| Peak 60 minutes | 105 | 11160 | 5099 | 104 | 11464 | 4858 | 144 | 17576 | 8124 |
| Percent | 12.6% | 12.4% | 11.0% | 12.5% | 12.8% | 10.5% | 8.7% | 9.8% | 8.8% |

Source: 2025 Gated Flight Schedule and HNTB extrapolation.

Attachment 11

Peak Activity Summaries

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Table 11.1

**Summary of Total Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 1**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|----------------------------|------------|------|--------------------|------------|------------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 14,456,692 | n/a | 17,895,426 | 20,150,739 | 23,031,264 |
| Alternative 2 | 14,456,692 | n/a | 14,653,359 | 16,335,466 | 18,690,644 |
| No Action | 14,456,692 | n/a | 17,984,722 | 20,012,039 | 22,895,004 |
| AWDPM Enplanements | | | | | |
| Alternative 1 (b) | 49,417 | n/a | 60,928 | 68,626 | 78,438 |
| Alternative 2 (c) | 49,417 | n/a | 51,057 | 56,918 | 65,124 |
| No Action (d) | 49,417 | n/a | 61,224 | 68,159 | 77,978 |
| Peak Hour Enplanements (e) | | | | | |
| Alternative 1 (b) | 6,686 | n/a | 8,055 | 9,167 | 10,271 |
| Alternative 2 (c) | 6,686 | n/a | 7,223 | 8,194 | 9,170 |
| No Action (d) | 6,686 | n/a | 8,151 | 9,167 | 10,270 |
| Peak Hour Deplanements (e) | | | | | |
| Alternative 1 (b) | 7,013 | n/a | 8,398 | 9,399 | 10,527 |
| Alternative 2 (c) | 7,013 | n/a | 7,466 | 8,461 | 9,464 |
| No Action (d) | 7,013 | n/a | 8,496 | 9,399 | 10,526 |
| Peak Hour Passengers (e) | | | | | |
| Alternative 1 (b) | 9,762 | n/a | 11,867 | 14,093 | 15,870 |
| Alternative 2 (c) | 9,762 | n/a | 10,207 | 11,977 | 13,480 |
| No Action (d) | 9,762 | n/a | 11,964 | 13,955 | 15,716 |

(a) Total enplanements less Terminal 2 enplanements for each alternative.

(b) Tables 10.1, 10.4, 10.13, and 10.22.

(c) Tables 10.1, 10.7, 10.16, and 10.25.

(d) Tables 10.1, 10.10, 10.19, and 10.28.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.2

**Summary of Total Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------------|-----------|------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 1,258,367 | n/a | 2,283,494 | 2,932,160 | 3,380,441 |
| Alternative 2 | 1,258,367 | n/a | 5,525,561 | 6,747,433 | 7,721,062 |
| No Action | 1,258,367 | n/a | 2,194,198 | 3,070,860 | 3,516,702 |
| AWDPM Enplanements | | | | | |
| Alternative 1 (b) | 4,215 | n/a | 7,632 | 9,800 | 11,298 |
| Alternative 2 (c) | 4,215 | n/a | 17,503 | 21,508 | 24,612 |
| No Action (d) | 4,215 | n/a | 7,336 | 10,267 | 11,758 |
| Peak Hour Enplanements (e) | | | | | |
| Alternative 1 (b) | 941 | n/a | 1,271 | 1,441 | 1,617 |
| Alternative 2 (c) | 941 | n/a | 2,147 | 2,543 | 2,853 |
| No Action (d) | 941 | n/a | 1,220 | 1,562 | 1,749 |
| Peak Hour Deplanements (e) | | | | | |
| Alternative 1 (b) | 666 | n/a | 1,033 | 1,281 | 1,432 |
| Alternative 2 (c) | 666 | n/a | 2,025 | 2,339 | 2,617 |
| No Action (d) | 666 | n/a | 1,136 | 1,250 | 1,398 |
| Peak Hour Passengers (e) | | | | | |
| Alternative 1 (b) | 951 | n/a | 2,018 | 2,446 | 2,747 |
| Alternative 2 (c) | 951 | n/a | 3,703 | 4,497 | 5,062 |
| No Action (d) | 951 | n/a | 2,139 | 2,432 | 2,731 |

(a) Estimated from ADPM enplanements using seasonality factors for Terminal 2 airlines.

(b) Tables 10.2, 10.5, 10.14, and 10.23.

(c) Tables 10.2, 10.8, 10.17, and 10.26.

(d) Tables 10.2, 10.11, 10.20, and 10.29.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.3

**Summary of Total Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 1 and Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|----------------------------|------------|------------|--------------------|------------|------------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 15,715,059 | 17,639,241 | 20,178,920 | 23,082,899 | 26,411,706 |
| Alternative 2 | 15,715,059 | 17,639,241 | 20,178,920 | 23,082,899 | 26,411,706 |
| No Action | 15,715,059 | 17,639,241 | 20,178,920 | 23,082,899 | 26,411,706 |
| AWDPM Enplanements | | | | | |
| Alternative 1 (b) | 53,632 | n/a | 68,560 | 78,426 | 89,736 |
| Alternative 2 (c) | 53,632 | n/a | 68,560 | 78,426 | 89,736 |
| No Action (d) | 53,632 | n/a | 68,560 | 78,426 | 89,736 |
| Peak Hour Enplanements (e) | | | | | |
| Alternative 1 (b) | 7,124 | n/a | 8,715 | 9,960 | 11,160 |
| Alternative 2 (c) | 7,124 | n/a | 8,715 | 9,960 | 11,160 |
| No Action (d) | 7,124 | n/a | 8,715 | 9,960 | 11,160 |
| Peak Hour Deplanements (e) | | | | | |
| Alternative 1 (b) | 7,448 | n/a | 9,074 | 10,305 | 11,464 |
| Alternative 2 (c) | 7,448 | n/a | 9,074 | 10,305 | 11,464 |
| No Action (d) | 7,448 | n/a | 9,074 | 10,305 | 11,464 |
| Peak Hour Passengers (e) | | | | | |
| Alternative 1 (b) | 10,320 | n/a | 12,785 | 15,597 | 17,576 |
| Alternative 2 (c) | 10,320 | n/a | 12,785 | 15,597 | 17,576 |
| No Action (d) | 10,320 | n/a | 12,785 | 15,597 | 17,576 |

(a) Table A.10.1

(b) Tables 10.3, 10.6, 10.15, and 10.24.

(c) Tables 10.3, 10.9, 10.18, and 10.27.

(d) Tables 10.3, 10.12, 10.21, and 10.30.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.4

**Summary of Total Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 1**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|------------------------------|-----------|------|--------------------|-----------|------------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 6,536,897 | n/a | 7,992,467 | 8,886,709 | 10,223,270 |
| Alternative 2 | 6,536,897 | n/a | 5,201,301 | 5,594,491 | 6,439,350 |
| No Action | 6,536,897 | n/a | 8,081,764 | 8,748,009 | 10,087,009 |
| AWDPM Originations | | | | | |
| Alternative 1 (b) | 21,857 | n/a | 27,338 | 30,422 | 35,016 |
| Alternative 2 (c) | 21,857 | n/a | 18,123 | 19,493 | 22,437 |
| No Action (d) | 21,857 | n/a | 27,655 | 30,000 | 34,530 |
| Peak Hour Originations (e) | | | | | |
| Alternative 1 (b) | 2,763 | n/a | 3,357 | 3,706 | 4,180 |
| Alternative 2 (c) | 2,763 | n/a | 2,596 | 2,816 | 3,167 |
| No Action (d) | 2,763 | n/a | 3,452 | 3,706 | 4,179 |
| Peak Hour Terminations (e) | | | | | |
| Alternative 1 (b) | 2,721 | n/a | 3,302 | 3,635 | 4,102 |
| Alternative 2 (c) | 2,721 | n/a | 2,376 | 2,571 | 2,896 |
| No Action (d) | 2,721 | n/a | 3,399 | 3,548 | 4,005 |
| Peak Hour O&D Passengers (e) | | | | | |
| Alternative 1 (b) | 4,424 | n/a | 5,345 | 5,840 | 6,621 |
| Alternative 2 (c) | 4,424 | n/a | 3,580 | 3,857 | 4,370 |
| No Action (d) | 4,424 | n/a | 5,251 | 5,745 | 6,514 |

(a) Total enplanements less Terminal 2 enplanements for each alternative.

(b) Tables 10.1, 10.4, 10.13, and 10.22.

(c) Tables 10.1, 10.7, 10.16, and 10.25.

(d) Tables 10.1, 10.10, 10.19, and 10.28.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.5

**Summary of Total Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|------------------------------|-----------|------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 1,249,112 | n/a | 2,266,440 | 2,912,114 | 3,351,890 |
| Alternative 2 | 1,249,112 | n/a | 5,074,660 | 6,224,378 | 7,164,361 |
| No Action | 1,249,112 | n/a | 2,170,868 | 3,037,361 | 3,496,051 |
| AWDPM Originations | | | | | |
| Alternative 1 (b) | 4,184 | n/a | 7,575 | 9,733 | 11,203 |
| Alternative 2 (c) | 4,184 | n/a | 16,790 | 20,662 | 23,782 |
| No Action (d) | 4,184 | n/a | 7,258 | 10,155 | 11,689 |
| Peak Hour Originations (e) | | | | | |
| Alternative 1 (b) | 940 | n/a | 1,270 | 1,435 | 1,617 |
| Alternative 2 (c) | 940 | n/a | 2,070 | 2,470 | 2,787 |
| No Action (d) | 940 | n/a | 1,207 | 1,546 | 1,741 |
| Peak Hour Terminations (e) | | | | | |
| Alternative 1 (b) | 664 | n/a | 1,028 | 1,274 | 1,432 |
| Alternative 2 (c) | 664 | n/a | 1,956 | 2,267 | 2,551 |
| No Action (d) | 664 | n/a | 1,122 | 1,234 | 1,389 |
| Peak Hour O&D Passengers (e) | | | | | |
| Alternative 1 (b) | 948 | n/a | 2,011 | 2,437 | 2,747 |
| Alternative 2 (c) | 948 | n/a | 3,575 | 4,340 | 4,910 |
| No Action (d) | 948 | n/a | 2,122 | 2,413 | 2,723 |

(a) Estimated from ADPM enplanements using seasonality factors for Terminal 2 airlines.

(b) Tables 10.2, 10.5, 10.14, and 10.23.

(c) Tables 10.2, 10.8, 10.17, and 10.26.

(d) Tables 10.2, 10.11, 10.20, and 10.29.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.6

**Summary of Total Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 1 and Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|------------------------------|-----------|-----------|--------------------|------------|------------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 7,795,264 | 8,946,698 | 10,275,961 | 11,818,869 | 13,603,711 |
| Alternative 2 | 7,795,264 | 8,946,698 | 10,275,961 | 11,818,869 | 13,603,711 |
| No Action | 7,795,264 | 8,946,698 | 10,275,961 | 11,818,869 | 13,603,711 |
| AWDPM Originations | | | | | |
| Alternative 1 (b) | 26,041 | n/a | 34,913 | 40,155 | 46,219 |
| Alternative 2 (c) | 26,041 | n/a | 34,913 | 40,155 | 46,219 |
| No Action (d) | 26,041 | n/a | 34,913 | 40,155 | 46,219 |
| Peak Hour Originations (e) | | | | | |
| Alternative 1 (b) | 3,185 | n/a | 3,998 | 4,513 | 5,099 |
| Alternative 2 (c) | 3,185 | n/a | 3,998 | 4,513 | 5,099 |
| No Action (d) | 3,185 | n/a | 3,998 | 4,513 | 5,099 |
| Peak Hour Terminations (e) | | | | | |
| Alternative 1 (b) | 3,141 | n/a | 3,956 | 4,325 | 4,858 |
| Alternative 2 (c) | 3,141 | n/a | 3,956 | 4,325 | 4,858 |
| No Action (d) | 3,141 | n/a | 3,956 | 4,325 | 4,858 |
| Peak Hour O&D Passengers (e) | | | | | |
| Alternative 1 (b) | 4,980 | n/a | 6,355 | 7,287 | 8,273 |
| Alternative 2 (c) | 4,980 | n/a | 6,355 | 7,287 | 8,273 |
| No Action (d) | 4,980 | n/a | 6,355 | 7,152 | 8,124 |

(a) Table A.10.1.

(b) Tables 10.3, 10.6, 10.15, and 10.24.

(c) Tables 10.3, 10.9, 10.18, and 10.27.

(d) Tables 10.3, 10.12, 10.21, and 10.30.

(e) Peak 60-minute period.

Sources: As noted and HNTB analysis.

Table 11.7

**Summary of International Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 1**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------|-----------|------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 1,062,403 | n/a | 1,454,129 | 1,687,809 | 1,961,167 |
| Alternative 2 | 1,062,403 | n/a | 1,454,129 | 1,687,809 | 1,961,167 |
| No Action | 1,062,403 | n/a | 1,454,129 | 1,687,809 | 1,961,167 |
| Design Day Enplanements (b) | | | | | |
| Alternative 1 | 3,684 | n/a | 5,390 | 6,256 | 7,273 |
| Alternative 2 | 3,684 | n/a | 5,390 | 6,256 | 7,273 |
| No Action | 3,684 | n/a | 5,390 | 6,256 | 7,273 |
| Peak Hour Enplanements (c) | | | | | |
| Alternative 1 | 866 | n/a | 1,348 | 1,565 | 1,818 |
| Alternative 2 | 866 | n/a | 1,348 | 1,565 | 1,818 |
| No Action | 866 | n/a | 1,348 | 1,565 | 1,818 |
| Peak Hour Deplanements (c) | | | | | |
| Alternative 1 | 1,124 | n/a | 1,641 | 1,905 | 2,214 |
| Alternative 2 | 1,124 | n/a | 1,641 | 1,905 | 2,214 |
| No Action | 1,124 | n/a | 1,641 | 1,905 | 2,214 |

(a) Total enplanements less Terminal 2 enplanements for each alternative.

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.

Table 11.8

**Summary of International Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------|--------|------|--------------------|---------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 79,039 | n/a | 109,963 | 127,634 | 148,255 |
| Alternative 2 | 79,039 | n/a | 109,963 | 127,634 | 148,255 |
| No Action | 79,039 | n/a | 109,963 | 127,634 | 148,255 |
| Design Day Enplanements (b) | | | | | |
| Alternative 1 | 1,577 | n/a | 2,194 | 2,547 | 2,958 |
| Alternative 2 | 1,577 | n/a | 2,194 | 2,547 | 2,958 |
| No Action | 1,577 | n/a | 2,194 | 2,547 | 2,958 |
| Peak Hour Enplanements (c) | | | | | |
| Alternative 1 | 852 | n/a | 961 | 1,115 | 1,296 |
| Alternative 2 | 852 | n/a | 961 | 1,115 | 1,296 |
| No Action | 852 | n/a | 961 | 1,115 | 1,296 |
| Peak Hour Deplanements (c) | | | | | |
| Alternative 1 | 438 | n/a | 629 | 730 | 849 |
| Alternative 2 | 438 | n/a | 629 | 730 | 849 |
| No Action | 438 | n/a | 629 | 730 | 849 |

(a) Ratio of total annual international enplanements to design day enplanements assumed to remain constant.

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.

Table 11.9

**Summary of International Peak Hour Enplanement/Deplanement Activity by Alternative at MSP
Terminal 1 and Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------|-----------|-----------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Enplanements (a) | | | | | |
| Alternative 1 | 1,141,442 | 1,331,485 | 1,564,092 | 1,815,444 | 2,109,421 |
| Alternative 2 | 1,141,442 | 1,331,485 | 1,564,092 | 1,815,444 | 2,109,421 |
| No Action | 1,141,442 | 1,331,485 | 1,564,092 | 1,815,444 | 2,109,421 |
| Design Day Enplanements (b) | | | | | |
| Alternative 1 | 5,261 | n/a | 7,584 | 8,803 | 10,231 |
| Alternative 2 | 5,261 | n/a | 7,584 | 8,803 | 10,231 |
| No Action | 5,261 | n/a | 7,584 | 8,803 | 10,231 |
| Peak Hour Enplanements (c) | | | | | |
| Alternative 1 | 1,010 | n/a | 1,604 | 1,862 | 2,164 |
| Alternative 2 | 1,010 | n/a | 1,604 | 1,862 | 2,164 |
| No Action | 1,010 | n/a | 1,604 | 1,862 | 2,164 |
| Peak Hour Deplanements (c) | | | | | |
| Alternative 1 | 1,270 | n/a | 1,787 | 2,074 | 2,411 |
| Alternative 2 | 1,270 | n/a | 1,787 | 2,074 | 2,411 |
| No Action | 1,270 | n/a | 1,787 | 2,074 | 2,411 |

(a) Table A.10.1

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.

Table 11.10

**Summary of International Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 1**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|------------------------------------|---------|------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 629,184 | n/a | 986,266 | 1,212,524 | 1,492,226 |
| Alternative 2 | 629,184 | n/a | 986,266 | 1,212,524 | 1,492,226 |
| No Action | 629,184 | n/a | 986,266 | 1,212,524 | 1,492,226 |
| Design Day Originations (b) | | | | | |
| Alternative 1 | 2,271 | n/a | 3,761 | 4,413 | 5,194 |
| Alternative 2 | 2,271 | n/a | 3,761 | 4,413 | 5,194 |
| No Action | 2,271 | n/a | 3,761 | 4,413 | 5,194 |
| Peak Hour Originations (c) | | | | | |
| Alternative 1 | 727 | n/a | 993 | 1,165 | 1,340 |
| Alternative 2 | 727 | n/a | 993 | 1,165 | 1,340 |
| No Action | 727 | n/a | 993 | 1,165 | 1,340 |
| Peak Hour Terminations (c) | | | | | |
| Alternative 1 | 947 | n/a | 1,329 | 1,559 | 1,793 |
| Alternative 2 | 947 | n/a | 1,329 | 1,559 | 1,793 |
| No Action | 947 | n/a | 1,329 | 1,559 | 1,793 |

(a) Total originations less Terminal 2 originations for each alternative.

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.

Table 11.11

**Summary of International Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------|--------|------|--------------------|---------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 76,944 | n/a | 107,048 | 124,401 | 144,325 |
| Alternative 2 | 76,944 | n/a | 107,048 | 124,401 | 144,325 |
| No Action | 76,944 | n/a | 107,048 | 124,401 | 144,325 |
| Design Day Originations (b) | | | | | |
| Alternative 1 | 1,577 | n/a | 2,194 | 2,550 | 2,958 |
| Alternative 2 | 1,577 | n/a | 2,194 | 2,550 | 2,958 |
| No Action | 1,577 | n/a | 2,194 | 2,550 | 2,958 |
| Peak Hour Originations (c) | | | | | |
| Alternative 1 | 852 | n/a | 961 | 1,117 | 1,296 |
| Alternative 2 | 852 | n/a | 961 | 1,117 | 1,296 |
| No Action | 852 | n/a | 961 | 1,117 | 1,296 |
| Peak Hour Terminations (c) | | | | | |
| Alternative 1 | 438 | n/a | 629 | 731 | 849 |
| Alternative 2 | 438 | n/a | 629 | 731 | 849 |
| No Action | 438 | n/a | 629 | 731 | 849 |

(a) Ratio of total annual international originations to design day originations assumed to remain constant.

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.

Table 11.12

**Summary of International Peak Hour Passenger Origination/Termination Activity by Alternative at MSP
Terminal 1 and Terminal 2**

| | 2010 | 2015 | EA Analysis Period | | Long Term |
|-----------------------------|---------|---------|--------------------|-----------|-----------|
| | | | 2020 | 2025 | 2030 |
| Annual Originations (a) | | | | | |
| Alternative 1 | 706,128 | 895,030 | 1,093,314 | 1,336,925 | 1,636,550 |
| Alternative 2 | 706,128 | 895,030 | 1,093,314 | 1,336,925 | 1,636,550 |
| No Action | 706,128 | 895,030 | 1,093,314 | 1,336,925 | 1,636,550 |
| Design Day Originations (b) | | | | | |
| Alternative 1 | 3,848 | n/a | 5,955 | 6,957 | 8,152 |
| Alternative 2 | 3,848 | n/a | 5,955 | 6,957 | 8,152 |
| No Action | 3,848 | n/a | 5,955 | 6,957 | 8,152 |
| Peak Hour Originations (c) | | | | | |
| Alternative 1 | 871 | n/a | 1,249 | 1,527 | 1,685 |
| Alternative 2 | 871 | n/a | 1,249 | 1,527 | 1,685 |
| No Action | 871 | n/a | 1,249 | 1,527 | 1,685 |
| Peak Hour Terminations (c) | | | | | |
| Alternative 1 | 1,093 | n/a | 1,475 | 1,804 | 1,990 |
| Alternative 2 | 1,093 | n/a | 1,475 | 1,804 | 1,990 |
| No Action | 1,093 | n/a | 1,475 | 1,804 | 1,990 |

(a) Table A.10.1

(b) Saturday in March. Does not include pre-cleared international passengers. Values for 2025 and 2030 are extrapolated.

(c) Peak 60 minutes. Does not include pre-cleared passengers. Values for 2025 and 2030 are extrapolated.

Sources: As noted and HNTB analysis.