

	88-75 88-77	88-70 88-71 88-72 88-73	88-66 88-67 88-68 88-69	88-17 88-19 88-61 88-64 88-65	ATM-1997 (Note 1)
) (Note 2)	ATM 1997
	/ (Note 5)	> (Note 3) > (Note 3) > (Note 3) > (Note 3)	Transferred 10/20/97 Transferred 6/4/98	Transferred 10/20/97	ATM 2009
78-19 79-13 79-63 79-113 Transferred 3/14/13 88-36 Portions of three "paper" streets (Note 5)					ATM 2011 (Note 4)
TON TON TON See property his No record in GIS	TON	No record in GIS No record in GIS No record in GIS No record in GIS	TON See proper	TON TON TON TON See proper	Owner/Disposition (per TON GIS Map
TON TON TON See property history attached No record in GIS ?		in GIS	TON TON See property history attached See property history attached	TON TON TON TON TON See property history attached	wner/Disposition (per TON GIS Map as of 2-11-15)
(Note 6)			(Note 6) (Note 6)		5)

Summary of ATM actions/disposition of various parcels voted to be transferred to control of Airport

NOTES

- Note 1 Authorized tramsfer of enumerated lots to control of Airport Commission.
- Note 2 Authorized BOS to swap these two lots, along with others in settlement of litigation relating to redemption of tax titles.
- Note 3 Authorized BOS to sell parcels as part of "Nantucket Yard Sale Program. FinCom comment suggested taking back "One Big Beach" easements as full or partial consideration.
- Note 4 Authorized transfer of control of enumerated lots to Airport Commission.
- Note 5 1) Weweeder Ave between the western sideline of Everett St. and the western sideline of Russell St
- 2) Everett St. between the southern sideline of Weweeder Ave to the Atlantic Ocean, not including any portion of Boulevarde May be part of transfer of "paper" street transfer to Sande Robert, current owner of the Devine property
- 3) Boulevarde from the western sideline of Everett Street to the Western sideline of Russell Street.
- Note 6 Not aware (from material I have) of any ATM authorixation to sell

56R MADEQUECHAM VLY RD

56R MADEQUECHAM VLY RD Location

Assessment \$1,697,100

Mblu 88/ / 65/ /

\$1,697,100 **Appraisal**

00008648 Acct#

PID 8648

Owner

ROOS GERALDINE R TRST

Building Count 1

Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2015	\$401,600	\$1,295,500	\$1,697,100
LANGE OF THE REPORT OF THE PROPERTY OF THE STATE OF THE PROPERTY OF THE PROPER	Assessment		
Valuation Year	Improvements	Land	Total
2015	\$401,600	\$1,295,500	\$1,697,100

Owner of Record

Owner

ROOS GERALDINE R TRST

Co-Owner ROOS GERALDINE R TRUST

Address

P O BOX 117

KEARSARGE, NH 03847

Sale Price

\$2,000,000

Book & Page 01120/0141

Sale Date

01/03/2008

Ownership History

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
SUNDELL TRACY C	\$175,000	00606/0169	01/05/1999
NANTUCKET SETTLEMENT LAND TR	\$0	00550/0222	10/20/1997
TOWN OF NANTUCKET	\$0	00081/ 371	

Building Information

Building 1: Section 1

Year Built:

1999

Living Area:

1984

Replacement Cost:

\$409,415

Building Percent

97

Good:

Replacement Cost

Less Depreciation:

\$397,100

Building .	Attributes
Field	Description

SURFSIDE

Location SURFSIDE

Assessment \$251,900

Mblu 88//68//

Appraisal \$251,900

00008651 Acct#

PID 8651

Owner MARBLEHAVEN LLC

Building Count 1

Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2015	\$0	\$251,900	\$251,900
	Assessment		
Valuation Year	Improvements	Land	Total
2015	\$0	\$251,900	\$251,900

Owner of Record

Owner

MARBLEHAVEN LLC

Co-Owner C/O PHILIP WATERMAN III

Address

1095 PARK AVENUE

NEW YORK, NY 10128

Sale Price

\$120,232

Book & Page 01254/0236

Sale Date

11/15/2010

Ownership History

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
SEIDMAN L WILLIAM	\$125,000	00717/0139	10/11/2001
NANTUCKET SETTLEMENT LAND TR	\$0	00550/0225	10/20/1997
TOWN OF NANTUCKET	\$0	00000/ 000	

Building Information

Building 1 : Section 1

Year Built:

Living Area:

0

Replacement Cost:

Building Percent

Good:

Replacement Cost

Less Depreciation:

utes
Description

50R MADEQUECHAM VLY RD

Location 50R MADEQUECHAM VLY RD

Assessment \$1,822,700

Mblu 88/ / 69/ /

\$1,822,700 Appraisal

00008652 Acct#

PID 8652

Owner 50 RMVR LLC

Building Count 1

Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2015	\$330,000	\$1,492,700	\$1,822,700
ANNE AND	Assessment		
Valuation Year	Improvements	Land	Total
2015	\$330,000	\$1,492,700	\$1,822,700

Owner of Record

Ownership History

Owner

50 RMVR LLC

Co-Owner

Address

1095 PARK AV

NEW YORK, NY 10128

Sale Price

\$400,000

Book & Page 001356/0049

Sale Date

11/30/2012

Ownership History			
Owner	Sale Price	Book & Page	Sale Date
50RMVR LLC	\$1,479,768	01254/0205	11/15/2010
SEIDMAN SARAH B	\$555,000	00654/0106	03/10/2000
CONTE CATHERINE TRUSTEE	\$0	00654/0102	03/10/2000
CONTE CATHERINE TR	\$50,000	00579/0176	06/04/1998

Building Information

Building 1: Section 1

Year Built:

1999

Living Area:

1068

Replacement Cost:

\$336,333

Building Percent

Good:

Replacement Cost

Less Depreciation:

\$326,200

Building Attributes

50 OKORWAW AV

Location 50 OKORWAW AV

Assessment \$1,487,800

Mblu 79//113//

Appraisal \$1,487,800

00007346 Acct#

PID 7346

Owner ROSS ADAM & EMMA

Building Count 1

Current Value

	Appraisal		
Valuation Year	Improvements	Land	Total
2015	\$643,900	\$843,900	\$1,487,800
	Assessment		
Valuation Year	Improvements	Land	Total
2015	\$643,900	\$843,900	\$1,487,800

Owner of Record

Owner

ROSS ADAM & EMMA

Co-Owner

Address

2 GREGLEN AVE PMB # 248

NANTUCKET, MA 02554-2830

Sale Price

\$353,100

Book & Page 01375/0117

Sale Date

03/14/2013

Ownership History

	Ownership History		
Owner	Sale Price	Book & Page	Sale Date
NTUCKET TOWN OF	\$0	00081/ 254	

Building Information

Building 1: Section 1

Year Built:

2013

Living Area:

3958

Replacement Cost:

\$641,388

Building Percent

100

Good:

Replacement Cost

Less Depreciation:

\$641,400

Building Attributes		
Field	Description	
Style	Colonial	
Model	Residential	

ARTICLE 79

(Airport: Real Estate Disposition)

To see if the Town will vote to transfer the following parcels of land from the jurisdiction of the Board of Selectmen/Treasurer to Nantucket Memorial Airport Commission:

Entra Company Control Con

	4 10		* *		
Assessor's Ref	erence		.Block/Lots		Area/S.F.
88-17			285; 1-8		29,000
88-19	(2 4)		303; 1-4, 28-34	(#E)	29,000
88-61			285; 9-17, 26-34		40,000
88-64	v:		303; 16, 17, 27, 28		10,000
88-65			303; 18-25		25,000
88-66			379; 18-25	9	25,000
88-67			379; 16, 17, 27, 28		10,000
88-68	N. 7. ""		380; 18-25		25,000
88-69	000	8	380; 26, 27	1. * (1).	5,000
88-70	, Pa	(#U	380; 28, 29, 30		7,500
88-71	7.31	8,40%	380; 31		2,500
88-72	= Y A	87	380; 1-4, 32-34		19,000
88-73			380; 5-6		7,250
88-75			381; 1-4, 28-34		29,000
88-77	*		381; 16-27		35,000

provided however, that each such transfer shall first comply with the requirements of Article 33 of the 1994 Annual Town Meeting.

(Board of Selectmen for Airport Commission)

FINANCE COMMITTEE RECOMMENDATION: We recommend that the Town vote to adopt Article 79 with the following amendments:

amend the first sentence as follows (NOTE: new language is shown as highlighted text; language to be deleted is shown by strike-out; these means to denote changes are not meant to become part of the text):

"To see if the Town will vote to transfer the following parcels of land from the jurisdiction of the Board of Selectmen/Treasurer to the inhabitants of the Town of Nantucket, by and through the Nantucket Memorial Airport Commission:";

delete parcel 88-69 from the Assessor's Reference column.

We further recommend that all expenses in connection with the transfer of these properties shall be paid by the Airport Commission.

1997

DMMENDATION: We recommend Article 96 as written.

RTICLE 97

position/Johnson Street)
to take by eminent domain, a parcel of
ands described as being Johnson
of the Office of the Assessor on Map
used for pedestrian traffic leading
ket Harbor and to raise and
f \$10,000.00

MMENDATION: We recommend pt Article 97. We further be referred to the Board of oners for review.

TICLE 98

ion: Conveyances of Land)
o authorize the Board of Selectmen
Audubon Society on such conditions
ne, certain parcels of land located on
licularly described as Land Court
17-18, and Block 55, Lots 14-17, 28No. 2408T, Block 66, Lots 22-23, and
ourt Plan No. 2408U, Block 54, Lots
xchange of land to consolidate and
n's Point and assure public access
actions in connection with such
riate.

IMENDATION: We recommend ticle 98 with the following

-25A", the following:

ounty Commissioners to convey a Society, Inc. on such conditions shall determine, certain parcels r's Island, so called, being more Court Plans referenced as

ted September 9, 1912, on file 51: Parcels 4-14; Block 55: '; Block 56: Parcels 1-16, 19-26; ovember 21, 1912, on file with arcels 20-21; Block 67: Parcels 6Court Plan No. 2408T, Block 66: Lot 20 and Block 67: Lot 8; Ohio Street (between southerly lot line of Land Court No. 2408T, Block 66: Lot 23 and Land Court Plan No. 2408S, Block 56: Lot 1 and New York Avenue)".

ARTICLE 99

(Real Estate Disposition: Land Conveyances and Acquisitions)

To see if the Town will vote to authorize the Board of Selectmen, in settlement of litigation relating to redemption of certain tax titles, (i) to convey certain parcels of land in Surfside, being more particularly described as Assessor's Map No. 79, Parcels 72, 174 and 180; Map 80, Parcels 94, 95 and 96; and Map 88, Parcels 65 and 68, subject to compliance with all applicable legal requirements; and (ii) in consideration for such conveyances to accept from the grantees thereof deeds of certain parcels of land also in Surfside, being more particularly described as Assessor's Map No. 79, Parcels 113, 114, 130, 150 and 152; Map No. 80, Parcels 37, 39, 105, 106 and 147; and Map No. 87, Parcels 4, 91 and 134; and of a certain parcel of land in Miacomet, being more particularly described as Assessor's Map 86, Parcel 166; and (iii) to take all such other actions in connection with such conveyance and acceptance as may be appropriate.

Further, to rescind the vote of Article 78 of the 1996 Annual Town Meeting to transfer the land described as Map No. 79, Parcel 72 to the Nantucket Housing Trust; and, to rescind the vote of Article 79 of the 1995 Annual Town Meeting to transfer the land described as Map No. 88, Parcels 65 and 68 to the Nantucket Memorial Airport.

(Board of Selectmen)

FINANCE COMMITTEE RECOMMENDATION: We recommend that the Town vote to adopt Article 99 as written.

ARTICLE 100

(Real Estate Disposition: Roadways)

To see if the Town will vote to dedicate the following parcels of land and easements as shown on a plan entitled "Washington Street Extension Bicycle Path Easement Plan" Nantucket, Massachusetts, prepared for County of Nantucket, dated October 22, 1996 by Leo Asadorian, PLS, Blackwell and Associates, Inc., on file at the Nantucket Registry of Deeds as Plan No. 49-0, for roadway purposes as part of Washington Street Extension:

P-1 1,135 square feet 1,275 square feet

E-1 213 square feet E-2 213 square feet

(Board of Selectmen)

FINANCE COMMITTEE RECOMMENDATION: We recommend that the Town vote to adopt Article 100 with the following

ARTICLE 86



(Real Estate Conveyance: 6 Easy Street)

To see if the Town will vote to authorize the Board of Selectmen to convey, sell, or otherwise dispose of Town property located at 6 Easy Street and described in the Town Assessor's records as Map 42.3.1, Parcel 16, or any portions thereof or interests therein, subject to Massachusetts G.L. c. 30B, or to take any other action related thereto.

(Board of Selectmen)

FINANCE COMMITTEE MOTION: Moved that the Board of Selectmen is hereby authorized to convey, sell, or otherwise dispose of Town property located at 6 Easy Street and described in . the Town Assessor's records as Map 42.3.1, Parcel 16, or any portions thereof or interests therein, subject to Massachusetts G.L. c. 30B and guidelines established under the "Nantucket Yard Sale" program on file in the office of the Board of Selectmen.

BOARD OF SELECTMEN COMMENT: The Board of Selectmen supports the Finance Committee Motion.

ARTICLE 87

(Real Estate Conveyance: Surfside)

To see if the Town will vote to authorize the Board of Selectmen to convey, sell, or otherwise dispose of Town property located off Madequecham Valley Road and Lindsay Avenue in the Surfside area of Nantucket as shown on the plan entitled "Plan of Lands, Surfside, Nantucket, Mass.," dated September 1972 and filed with the Nantucket County Registry of Deeds in Plan File 3-D, and further described in the Town Assessor's records as Map 88, Parcels 70, 71, 72 and 73, or any portions thereof or interests therein, subject to Massachusetts G.L. c. 30B, or to take any other action related thereto.

(Board of Selectmen)

FINANCE COMMITTEE MOTION: Moved that the Board of Selectmen is hereby authorized to convey, sell, or otherwise dispose of Town property located off Madequecham Valley Road and Lindsay Avenue in the Surfside area of Nantucket as shown on the plan entitled "Plan of Lands, Surfside, Nantucket, Mass.," dated September 1972 and filed with the Nantucket County Registry of Deeds in Plan File 3-D, and further described in the Town Assessor's records as Map 88, Parcels 70, 71, 72 and 73, or any portions thereof or interests therein, subject to Massachusetts G.L. c. 30B and guidelines established under the "Nantucket Yard Sale" program on file in the office of the Board of Selectmen,

FINANCE COMMITTEE COMMENT: The Town should strongly consider accepting the grant to the Town of an appropriate "One Big Beach" easement over nearby or adjacent properties as full or partial consideration for the sale of these parcel(s).

BOARD OF SELECTMEN COMMENT: The Board of Selectmen supports the Finance Committee Motion.

2011

interests of all or any portion pursuant to Chapter 30B of the Massachusetts General Laws and guidelines established under the "Nantucket Yard Sales" program on file at the Board of Selectmen's office, provided that a conservation restriction has been placed on the properties protecting their open space value to adjoining properties;

To dedicate all or any portion of Miller Lane, Lot B2 and all or any portion of Lot B-1 labeled "Buffer Area", and Map 42.2.3 Parcel 19, 76

Washington Street for open space and recreational purposes, or to sell, convey or otherwise dispose of the fee or lesser interests of any portion of the land identified to the Nantucket Islands Land Bank:

All as shown on a map entitled "2011 Annual Town Meeting Warrant Article 110" dated January 2011.

ARTICLE 111

(Real Estate Conveyance: Transfer of Miscellaneous Town Land to Airport)

To see if the Town will vote pursuant to Chapter 40 section 15A to authorize the Board of Selectmen to transfer the care, custody, management and control of the following parcels of land to the Nantucket Memorial Airport for any and all airport purposes; any such disposition to be on such terms and conditions the Board of Selectmen deem appropriate, which may include the reservation of easements and restrictions in regard to the following land:

- Map 78 Parcel 19, Surfside;
- Map 79 Parcel 13, Weweeder Avenue;
- Map 79 Parcel 63, Monohansett Road:
- Map 79 Parcel 113, Monohansett Road;
- Map 88 Parcel 36, Boulevarde
- Weweeder Avenue between the western sideline of Everett Street to the western sideline of Russell Street
- Everett Street between the southern sideline of Weweeder Avenue to the Atlantic Ocean, not including any portion of Boulevarde;
- Boulevarde from the western sideline of Everett Street to the western sideline of Russell Street.

All as shown on a map entitled "2011 Annual Town Meeting Warrant Article 111" dated January 2011 and filed herewith at the Office of the Town Clerk.

Or to take any other action related thereto.

(Board of Selectmen for Airport Commission)

FINANCE COMMITTEE MOTION: Moved that the Board of Selectmen is authorized to transfer the care, custody, management and control of the following parcels of land to the Nantucket Memorial Airport for any and all airport purposes; any such disposition to be on such terms and conditions the Board of Selectmen deem appropriate, which may include the reservation of easements and restrictions in regard to the following land:

Map 78 Parcel 19, Surfside;

Map 79 Parcel 13. Weweeder Avenue;

Map 88 Parcel 36, Boulevarde - SWETT CIN The DEEAN)

- Weweeder Avenue between the western sideline of Everett Street to the western sideline of Russell Street
- Everett Street between the southern sideline of Weweeder Avenue to the Atlantic Ocean, not including any portion of Boulevarde;

 Boulevarde from the western sideline of Everett Street to the western sideline of Russell Street.

All as shown on a map entitled "2011 Annual Town Meeting Warrant Article 111" dated January 2011.

BOARD OF SELECTMEN COMMENT: The Board of Selectmen supports the Finance Committee Motion.

ARTICLE 112

(Real Estate Conveyance: Miscellaneous Land)

To see if the Town will vote to authorize the transfer of the following parcels of land from the care and custody of the Nantucket Memorial Airport Commission to the Town of Nantucket and/or the Nantucket Islands Land Bank for any and all legal purposes:

- Map 69 Parcel 3.1 (a portion of), 10 Sun Island Road;
- Map 69 Parcel 106, 6 Sun Island Road;

All as shown on a map entitled "2011 Annual Town Meeting Warrant Article 112" dated January 2011 and filed herewith at the Office of the Town Clerk.

Or to take any other action related thereto.

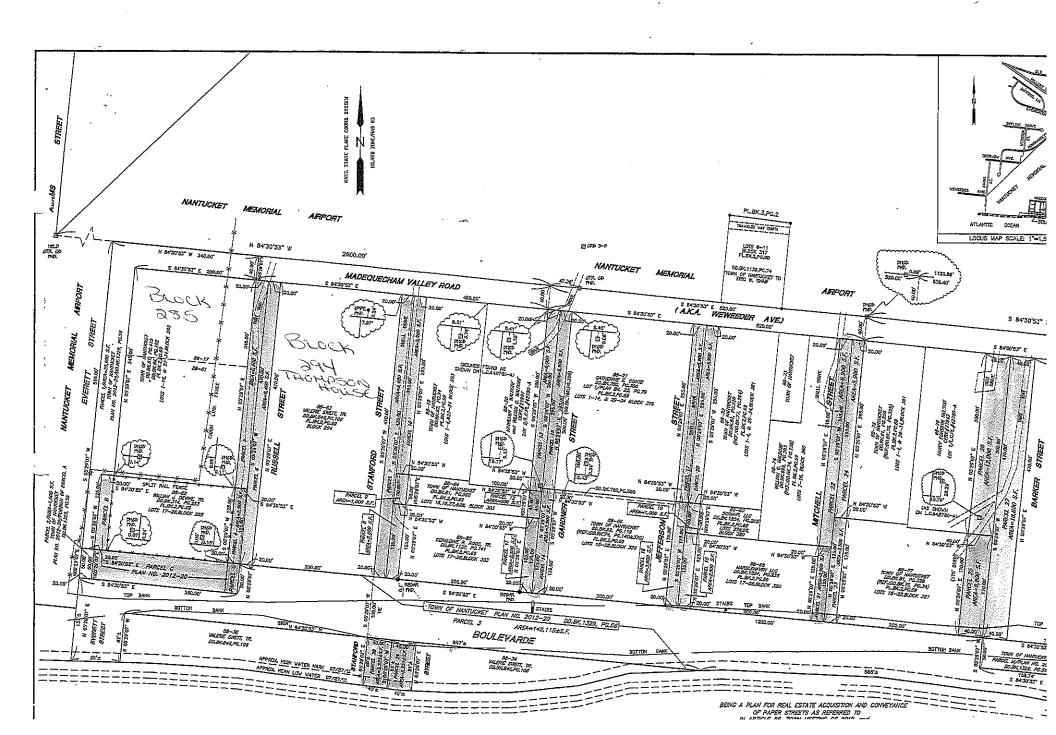
(Board of Selectmen for Airport Commission)

FINANCE COMMITTEE MOTION: Moved that the following parcels of land are transferred from the care and custody of the Nantucket Memorial Airport Commission to the Town of Nantucket and/or the Nantucket Islands Land Bank for any and all legal purposes:

Map 69 Parcel 3.1 (a portion of), 10 Sun Island Road;

All as shown on a map entitled "2011 Annual Town Meeting Warrant Article 112" dated January 2011.

BOARD OF SELECTMEN COMMENT: The Board of Selectmen supports the Finance Committee Motion.





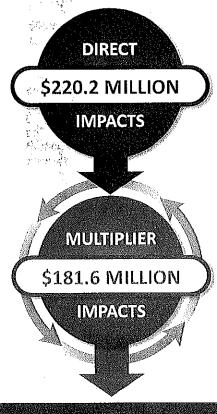
Nantucket Memorial Airport (ACK)

Centrally located on the island of Nantucket, Nantucket Memorial Airport serves the commercial service and general aviation needs of the island. With its three runways, the longest of which is 6,303 feet, the airport can accommodate a wide range of commercial service and general aviation aircraft. The airport's facilities and services are ideal for accommodating the aviation needs of both local and transient users.

As the premier destination airport in Massachusetts' system of commercial service airports serving the Cape and Islands region, flights from Hyannis, New Bedford, Plymouth, and other locations bring vacationers and summer home owners to Nantucket during the airport's peak period of activity from Memorial Day to Labor Day. The airport experiences a significant amount of general aviation activity, which is crucial to the day-to-day economy of the island. Corporate flights transport executives to summer homes, while smaller general aviation aircraft bring private pilots to the island, many of whom fly in to visit the island's beaches or eat at the airport's Crosswinds Restaurant & Bar. Nantucket Memorial Airport is also important to the island's economy by supporting the transport of workers who commute daily from the mainland as well as the transport of time sensitive cargo and food to the island. The airport is the primary means of evacuation off of the island during emergencies, with air ambulance activity being common during the summer months.

The annual economic impact of Nantucket Memorial Airport is associated with direct impacts that come from operations at the airport, construction projects that are undertaken by the airport and its tenants, and spending from visitors who arrive on the island via commercial service and general aviation aircraft.





TOTAL AIRPORT IMPACTS

Jobs 4,017

Payroll \$120.8 million

Output \$401.8 million

Direct Impacts include both on-airport and visitor impacts. On-airport impacts are those benefits associated with on-airport businesses, government tenants, and capital construction projects. Visitor impacts generally take-place off-airport and are attributable to visitor spending.

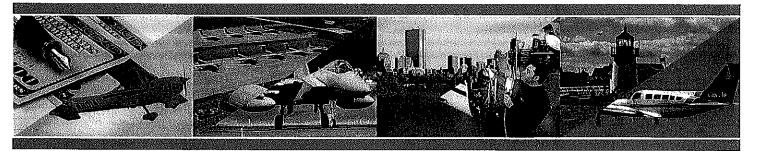
Multiplier Impacts consist of indirect and induced impacts. Indirect impacts are related to the re-circulation of monies spent locally by on-airport businesses. Induced impacts are those impacts resulting from the re-circulation of employee payroll within the economy.

Total Economic Impacts are the combination of all direct and multiplier impacts.

Massachusetts

STATEWIDE AIRPORT ECONOMIC IMPACT STUDY





Aviation: Our Link to Economic Prosperity

Airports provide connectivity to worldwide markets and destinations, sustaining Massachusetts' expanding business community and its world renowned tourist destinations.

For the Commonwealth of Massachusetts, the sound of commerce resonates through its commercial service and general aviation airports. From the largest to the smallest, each of the 39 public-use airports (including Boston Logan International Airport) that constitute the Commonwealth's airport system contribute significantly to local, state and regional economies — resulting in the enhanced quality of life enjoyed by Massachusetts businesses, residents, and visitors. As primary economic engines that support existing industries while also helping develop new growth, Massachusetts' airports are responsible for generating billions of dollars in economic benefits for the Commonwealth that includes supporting thousands of local jobs. It is through this diverse system of airports that aviation helps to sustain, lead, and diversify the Commonwealth's economy.

Study Process

The Massachusetts Department of Transportation Aeronautics Division commissioned this Federal Aviation Administration funded study to examine the relationship between the state's system of airports and the economy. The study follows an approved methodology that has successfully quantified the value of airports and airport systems throughout the United States.

There are many ways that airports can produce economic benefits for their host communities. On-airport businesses such as airlines, flight schools, fixed base operators, corporate flight departments, aircraft maintenance businesses, as well as various government entities are responsible for thousands of jobs and extensive capital projects. Additionally, visitors who arrive on commercial airlines or on private aircraft also create economic activity through local spending for hotels, restaurants, retail, and entertainment. All of these actions contribute directly to creating additional jobs and greater local economic benefits.

The economic contribution of each airport in the Massachusetts airport system was measured in terms of employment, payroll, and total economic output. Through a comprehensive survey process, the direct economic benefits related to on-airport tenants/businesses and visitor-related expenditures were calculated for each airport. Multiplier impacts associated with these activities were also calculated using multipliers that are specific to Massachusetts. For example, when an airport employee purchases local goods and services, that spending and re-spending generates additional economic activity in the region. The total economic impact is the sum of all direct on-airport, direct visitor, and multiplier impacts.

Statewide Impacts

When all of the impacts of Massachusetts' 39 airports are added together, 124,369 total jobs can be traced to the aviation industry. These employees account for more than \$4.9 billion in total payroll and generate nearly \$11.9 billion in total economic activity.

In addition to these economic benefits, airports in Massachusetts provide a number of health, welfare, and safety benefits, the impacts of which are beyond conventional measurement. Services such as medical transport and evacuation, flight training, law, enforcement flights, wildlife management, military exercises, and search-and-rescue operations all contribute directly to the quality of life of those who live and work in Massachusetts.

TOTAL STATEWIDE IMPACTS

Jobs

124,369

Payroll

\$4.9 billion

Output

\$11.9 billion

Employment measures the number of full-time equivalent jobs related to airport activity including on-airport construction. A part-time employee counts as half a full-time employee.

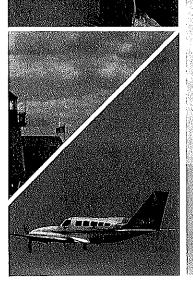
Payroll measures the total annual wages, and benefits paid to all workers whose salaries are directly attributable to airport activity.

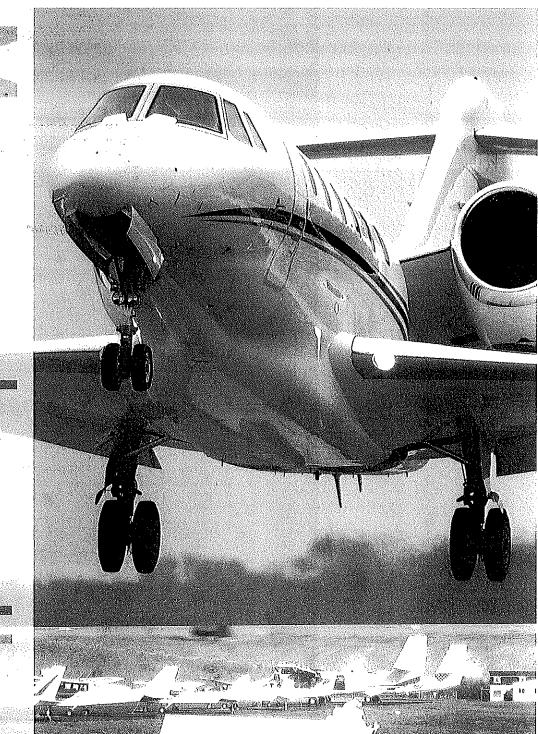
Economic Activity (Output)

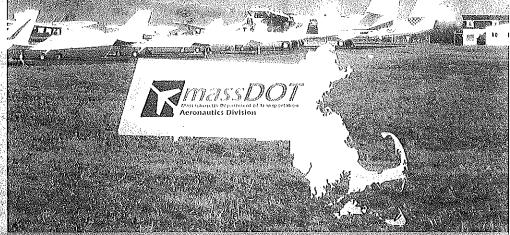
measures the value of goods and services related to airports in Massachusetts. The output of on-airport businesses is typically assumed to be the sum of annual gross sales and average annual capital expenditures.











Massachuseins Skaitewhile Airporti Economic Impacticaturit

9019

Executive Summary

Aviation: Our Link to Economic Prosperity

Airports provide connectivity to worldwide markets and destinations, sustaining the Bay State's rapidly expanding business community and its world renowned tourist destinations.

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italla diketida ya dine / waran majira (anya jiran ilia (ajeta) ajira What Health teach (5/45) (4/5) (4/5) (at the first of the confidence of the confiden adeMellolaticationthe easts salves the bloom years are salven. वीक्षरक पुर्वकारी एको एवर्षेक्षा अस्त्रेय स्थापन प्रतिकार हो। सुन्तर एक स्थापन क्षापन स्थापन स्थापन स्थापन स्थ na propinské sklavy klady klady klady se populacie se populaci se populacie se populacie se populacie se populacie se populaci se populacie se populacie se populacie se populacie se populaci se populacie se populacie se populacie se populacie se populaci se populacie se populacie se populacie se populacie se populaci se populacie se populacie se populacie se populacie se populaci se populacie se populacie se populacie se populacie se populacie Corlor to Abrellion and weelling a swill england in the Dullah kerkerika labah kabamatan maliang Tijker kan akhiri s o propio monenti di kikwopisika estekkoleke kikikiki kikiki kikiki kikiki नुष्टा करावे हर होते होते. अपना उद्देशी होता है । हेपूर कर से भूका है है है पूर्व के स्वार्थ है है है है है है inania (2001), Andrea yayayayayayayayaya Mosajodkinekoji Svolipakin) dalpakinjakinji v edacapski and a property of the property of the contract aliidadikkilididaa jampaa laddisklii alyyyksi mi Microphologic April William Waller and Amount of the Amoun Study of tails may keep into his envery the entry supp ในสามารถสามารถสายสมาริสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามา

Promote aviation throughout the Commonwealth, while providing an efficient, integrated airport system that will enhance airport safety, economic development, and environmental stewardship.

– MassDOII Aerenavieles Division Mission Statement



Study Overview

The 39 public-use airports in 'Massachusetts are important transportation resources as well as significant economic engines. The analysis presented in this study considers the annual economic impacts accrued in 2010 associated with airport business operations, on-airport construction, military aviation, visitors who arrive via commercial airlines, and visitors who arrive on privately-owned general aviation aircraft. These impacts are reported for each airport in terms of employment, payroll, and total economic activity.

Overall, Massachusetts public-use airports generate \$11.9 billion in total annual economic activity, including \$4.9 billion in total annual payroll resulting from 124,369 jobs that can be traced to the aviation industry. In addition to these economic benefits, airports in Massachusetts provide a number of health, welfare, and safety benefits, the impacts of which are beyond conventional measurement. Services such as medical transport and evacuation, flight, training, law enforcement flights, wildlife management, military exercises, and search-and-rescues operations, all contribute directly to the quality of life of those who live and work in Massachusetts.

Massachusetts Public-Use Airport System

Massachusetts' system of public-use alrports is comprised of nine commercial service and 30 general aviation airports. While most of the system's 39 airports are publicly-owned, 11 are privately-owned and operated.

The MassDOT Aeronautics Division supports the operation and development of 36 of these airports through:

- Grant funding
- Alignoric inspections
- Technical guidance
- StateWide planning inligative
- AViation education outreach
- Communication with local, state and federal officials

The Massachusetts Port Authority (Massport) owns and operates the remaining three airports: Boston Logan International Airport, Laurence G. Hanscom Field, and Worcester Regional Airport.

TOTAL ECONOMIC IMPACTS OF MASSACHUSETTS' PUBLIC-USE AIRPORTS







Aviation boosts local economies and creates new markets at home and abroad. From the business trips and vacations we take, to the products and services we enjoy, aviation makes it all happen.

Federal Aviation Administration

Study Process

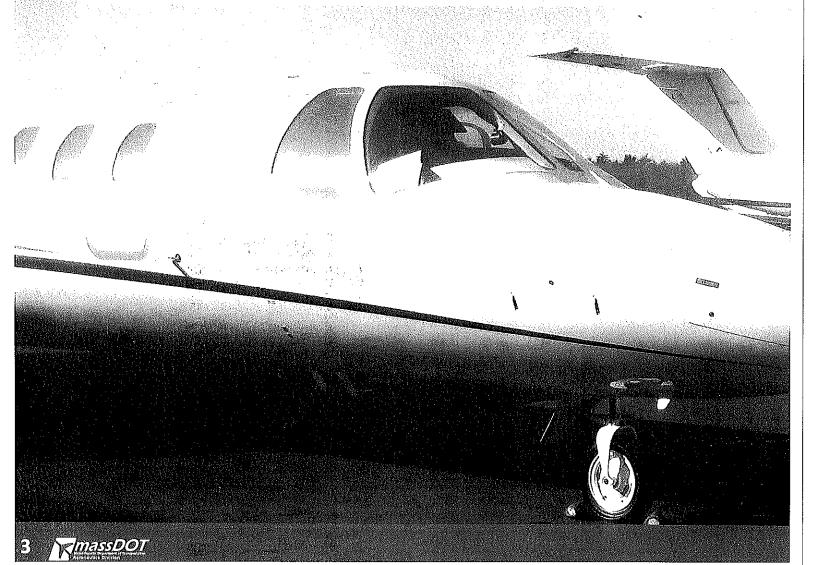
There are many ways that airports can produce economic benefits within their communities. On-airport businesses such as airlines, flight schools, fixed-base operators (FBOs), corporate flight departments, aircraft maintenance businesses, as well as various government entities (e.g. airport sponsors, the FAA, military air facilities, and the Transportation Security Administration (TSA)) are responsible for thousands of jobs and extensive capital projects at airports throughout the Commonwealth. Additionally, visitors who arrive on commercial airlines or on private aircraft also create economic activity through local spending for hotels, restaurants, retail, and entertainment. All of these actions contribute directly to creating additional jobs and greater local economic benefits.

The economic impacts generated by the 39 Massachusetts airports were calculated using an FAA-approved methodology that involved on-site data gathering and active survey efforts to tabulate the direct impacts of airports and their tenants. A sampling of visitors using commercial service and general aviation, as well as data from the Massachusetts Office of Travel & Tourism, were utilized to assess visitor spending habits.

Industry accepted ratios were then used to convert this spending into Massachusetts-specific jobs and payroll.

Note that as airport direct impacts are released into the statewide economy, they create subsequent ripples throughout the economy through multiplier impacts. For example, when FBO employees use their salary to buy groceries at a local store, their spending helps support that store and its employees. That spending then re-circulates or multiplies in local economies until the benefits ultimately leak outside of the state. For this study, multiplier impacts were calculated using Massachusetts-specific multipliers. In general, for every \$100 spent by aviation-related businesses, an additional multiplier impact of \$56 is created within Massachusetts. The total economic impact is the sum of the direct on-airport, direct visitor, and multiplier impacts.

The quantitative benefits of the airport system are expressed as jobs, payroll, and output. Output can be thought of as a measure of annual economic activity or spending.



How Aviation's Benefits Are Quantified

Economic Impact Myes

Direct Impacts

include both ontallport and visitor impacts, Onairport impacts are those benefits associated with on-airport businesses, government tenants, and capital constituction projects. Visitor impacts generally take place off-airport and are attributable to visitor spending.

Multiplicalmoans

consist of Indirect and induced impacts. Indirect impacts are related to the re-circulation of monles speni locallyby on alipori businesses, Induced Impacts are those impacts resulting from the re-arculation of employee payroll Within the teropoliny

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lmpact Measures

Employment

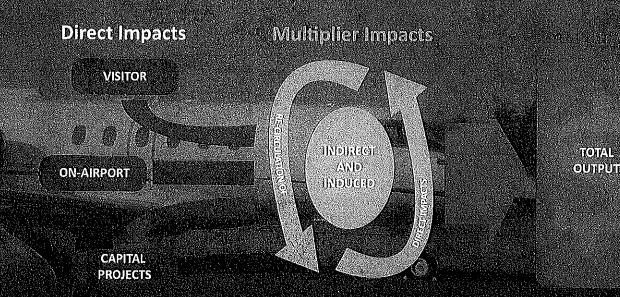
measures tine number of full-time equivalent (PRE) jobs related to airport activity. Two panetime employees count as one full-time employee; In the case of seasonal employment, iwo seasonal full-timesemployees, count as one year round full sime employee and rour seasonal part-time employees count as one year-round full-time employee,

Bayroll

ineastires the total annual wages, salany, and benefits paid to all workers whose employment is directly attiniourable to amportiarenvity.

Economic/Accivity/(Ourous)

measures the value of goods and services related to alidooris Inc Massachusalis, ilite sovipula or somalipoin oustnesses as applically assumed to be time sum of augural gross sales an draverage amount keap halke you not house so Box eldenloggenomaleelesseorgendelmissinginssinging (SUGD as a government agency), othorti is assimated els ving svina kor abraldeli (payroll), animual laxocinises, aigid sylenge and the control of the contr



I use general aviation to reach more than 100 customers who are located up and down the East Coast.

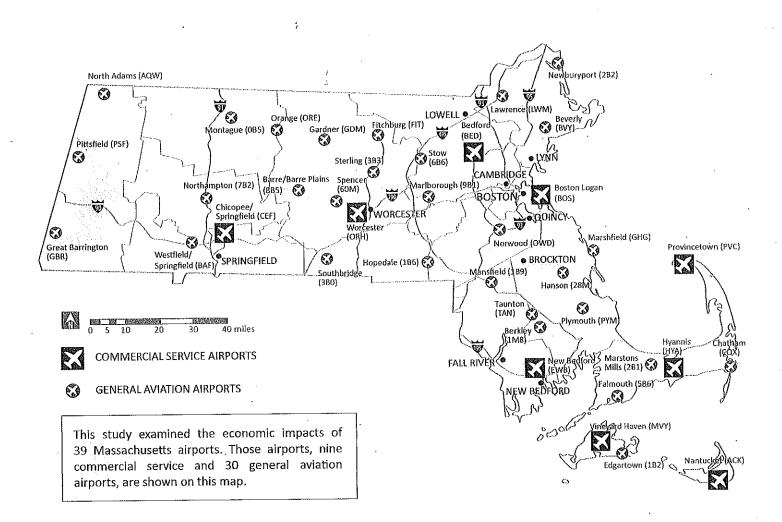
-Massachusetts Business Owner

Summary of Total Impacts by Airport

COMMERCIAL SERVICE AIRPORTS

Associated City	Airport Name	Total Employment	Total Payroll	Total Output
Bedford	Laurence G. Hanscom Field*	11,765	\$701,389,000	\$1,408,507,000
Boston	Boston Logan International Airport	94,552	\$3,535,892,000	\$8,865,164,000
Chicopee/Springfield	Westover Air Reserve Base/Metropolitan Airport*	5,484	\$229,098,000	\$324,113,000
Hyannis	Barnstable Municipal Airport-Boardman/Polando Field	2,246	\$74,445,000	\$227,349,000
Nantucket	Nantucket Memorial Airport	4,017	\$120,822,000	\$401,804,000
New Bedford	New Bedford Regional Airport	234	\$8,301,000	\$26,356,000
Provincetown	Provincetown Municipal Airport	343	\$9,480,000	\$27,743,000
Vineyard Haven	Martha's Vineyard Airport	1,003	\$30,398,000	\$94,663,000
Worcester	Worcester Regional Airport	418	\$13,980,000	\$51,453,000
	VICE AIRPORT TOTALS	120,062	\$4,723,805,000	\$11,427,152,000

^{*} Includes economic impacts associated with military operations located on the airport. See page 9 for specific military totals.



GENERAL AVIATION AIRPORTS Associated Airport Total ाठ त Total City Name Payroll Employment Output Barre/Barre Plains Tanner-Hiller Airport \$14,000 \$268,000 Berkley Myricks Airport \$21,000 \$27,000 2 Beverly Beverly Municipal Airport \$7,023,000 \$21,954,000 Chatham Chatham Municipal Airport \$4,319,000 \$12,947,000 144 Edgartown \$568,000 \$1,789,000 Katama Airpark 19 Falmouth Falmouth Airpark \$823,000 5 \$139,000 Fitchburg Fitchburg Municipal Airport 105 \$3,957,000 \$11,257,000 Gardner Gardner Municipal Airport \$267,000 \$1,121,000 8 Great Barringtor Walter J. Koladza Airport 38 \$1,026,000 \$2,590,000 Hanson Cranland Airport \$141,000 \$183,000 3 Hopedale Hopedale Industrial Park Airport 13 \$348,000 \$793,000 Lawrence Lawrence Municipal Airport \$8,039,000 \$23,469,000 220 Mansfield Mansfield Municipal Airport \$1,624,000 \$9,087,000 59 Marlborough Marlboro Airport \$415,000 \$2,581,000 20 Marshfield Marshfield Municipal Airport - George Harlow Field \$2,559,000 58 \$8,086,000 Marstons Mills Cape Cod Airfield 10 \$196,000 \$810,000 Montague Turners Falls Airport \$1,370,000 \$4,342,000 Newburyport Plum Island Airport 2 \$33,000 \$151,000 North Adams Harriman-and-West Airport \$5,367,000 135 \$16,949,000 Northhampton Northampton Airport 24 \$622,000 \$1,973,000 Norwood Norwood Memorial Airport \$15,649,000 \$51,394,000 386 Orange Orange Municipal Airport \$3,300,000 109 \$9,419,000 Pittsfield Pittsfield Municipal Airport \$4,919,000 \$17,963,000 125 Plymouth Plymouth Municipal Airport \$12,046,000 \$48,514,000 301 Southbridge Southbridge Municipal Airport 17 \$509,000 \$1,789,000 Spencer Spencer Airport 6. \$63,000 \$349,000 Sterling Sterling Airport \$364,000 \$1,053,000 13 Stow Minute Man Air Field 94 \$2,821,000 \$8,580,000 Taunton Taunton Municipal Airport - King Field \$705,000 \$2,202,000 23 Westfield/Springfield Westfield-Barnes Regional Airport* \$59,492,000 \$180,772,000

2,119

4,307

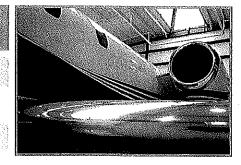
ALLATRIPORTS TOTAL

Total Employment 124,369

GENERAL AVIATION AIRPORT TOTALS

Total Payroll \$4,861,721,000

\$11,870,387,000 Total Output



\$443,235,000

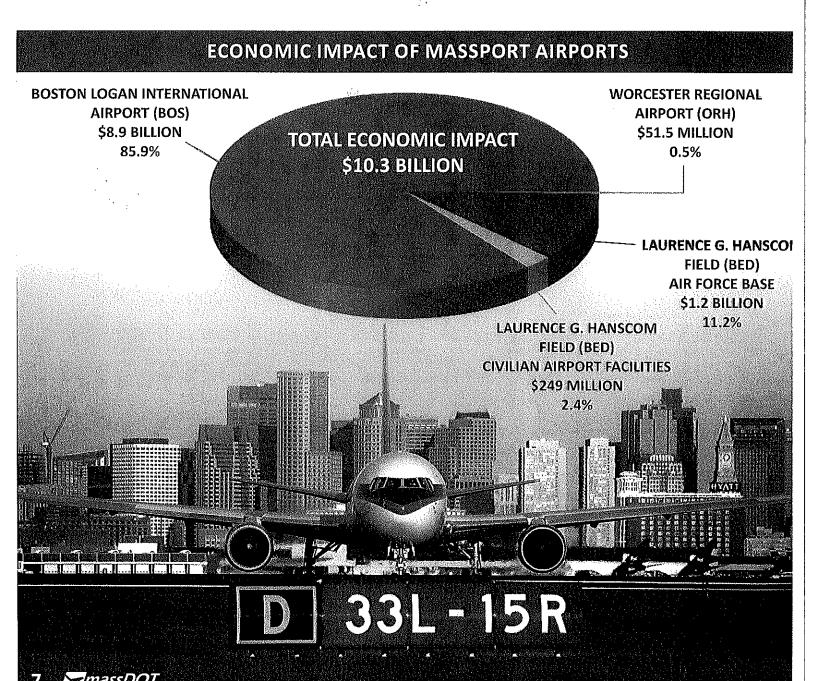
\$137,916,000

^{*} Includes economic impacts associated with military operations located on the airport. See page 9 for specific military totals,

Massport Airports

The Massachusetts Port Authority (Massport) plays an important role for the Massachusetts Statewide Airport System as owner and operator of Boston Logan International Airport, Laurence G. Hanscom Field, and Worcester Regional Airport. Massport's defined mission is to operate as an integrated worldclass transportation network that promotes economic growth and opportunity, enhances the quality of life of New England residents and protects the freedom to travel safely, securely, efficiently and cost-effectively. In meeting its responsibility to connect New England with the world, Massport also strives to always be a good steward by treating colleagues and customers with respect, embracing diversity and minimizing the impact of transportation services on their neighbors and the environment.

In fulfillment of that Massport mission, Boston' Logan International Airport and Laurence G. Hanscom Field, New England's preeminent commercial service airport and general aviation airport respectively, make significant contributions to the overall economic benefits generated by the Massachusetts airport system. Including Worcester Regional Airport, a largely untapped commercial service airport serving New England's second largest city, Massport airports generate approximately \$10.3 billion or 87 percent of the state airport system's total annual economic activity. This includes nearly 107,000 Massachusetts jobs with a total annual payroll estimated at nearly \$4.3 billion.

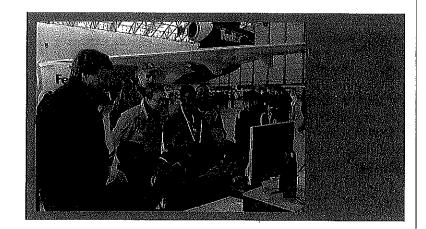


Additional Areas of Analysis

Qualitative Benefits

In addition to substantial annual economic benefits, Massachusetts' airports provide many qualitative benefits related to health, welfare, and safety that help to preserve and improve the overall quality of life in the Commonwealth. These qualitative benefits include:

- Facilitating emergency medical transport
- Providing police support
- Supporting aerial surveying, photography, and inspection operations
- Conducting search-and-rescue operations
- Supporting the U.S. military and other government organizations
- Providing youth outreach activities



Tax Receipt Impacts Massachusettsamponts

annually generate an ore than \$57.6 million in tax revenues for the Commonwealth dinoughasvariety/ofaligonie related activities

AIRPORT TENANT SALES TAXES \$78.2 MILLION 14%

FUEL TAXES \$24.9 MILLION

> INCOME TAXES \$151.1 MILLION 26%

VISITOR SALES TAXES \$294.1 MILLION

EMPLOYEE SALES TAXES \$27.9 MILLION

51%

Airport Valuation

Airports are nearly irreplaceable infrastructure assets for Massachusetts that have been built and developed over generations. In order to actually replicate the Commonwealth's existing airport system (excluding Logan International), it would cost in excess of \$5.5 billion in today's dollars.

AIRPORT VALUATION ANALYSIS

Airport Type

Estimated Aliport Replacement Cost

Commercial Service*

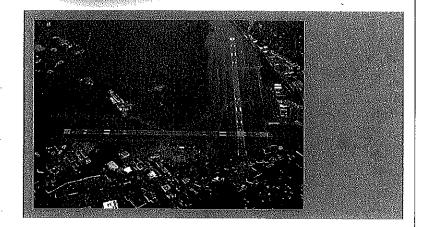
\$3,896,496,000

General Aviation

\$1,593,141,000

\$5,489,637,000

*Boston Logan International Airport not included

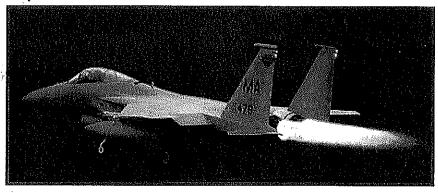


Unique Segments of Aviation

The Massachusetts Statewide Airport Economic Impact Study included three case studies of unique segments of aviation in Massachusetts.

Military Aviation

Dating back to colonial America, Massachusetts has a long and storied military tradition that includes all branches of service. In addition to its many military bases and research facilities, Massachusetts is home to four active military air facilities that support multiple service branches. Additionally, due to their proximity to Boston-area technology resources, these facilities are on the cutting edge of military research and development. In return for the strategic military value that these bases provide to the nation, Massachusetts also realizes a significant economic; benefit that results from those militaryrelated activities, including providing employment for residents, sales revenue for companies, and tax revenues for state and local governments.



ECONOMI	C IMPACT OF M	IILITARY AVIATION	
Military Air Facility	Employment	Payroll	Output
Hanscom AFB	10,214	\$625,959,000	\$1,158,616,000
Westover AFB	5,214	\$218,933,000	\$294,057,000
Westfield-Barnes Regional Airport	1,625	\$33,772,000	\$111,680,000
Otis Air National Guard Base	871	\$51,039,000	\$68,445,000
Total	17,924	\$929,703,000	\$1,632,798,000



Econor	VIIC IMPACTIO)F CARE & ISLANDS	
Airport Name	Employment	Payroll	Output
Barnstable Municipal	2,246	\$74,445,000	\$227,349,000
Cape Cod Airfield	V. 10.	\$196,000	\$810,000
Chatham:Municipal	. 144	\$4,319,000	\$12,947,000
Falmouth Airpark	. 5 .	\$139,000	\$823,000
Provincetown Municipal:	343	\$9,480,000	\$27,743,000
Katama Airpark	19	\$568,000	\$1,789,000
Martha's:Vineyard	1,003	\$30,398,000	\$94,663,000
Nantucket Memorial	4,017	\$120,822,000	\$401,804,000
Total	7,787	\$240,367,000	\$767,928,000

Cape & Islands

One of the most distinctive facets of the Massachusetts airport system is its importance to the transportation capacity and economic vitality of the Cape and Islands. Comprised of Cape Cod, Martha's Vineyard and Nantucket Island, this region represents one of Massachusetts' most iconic and precious natural resources. Through its airports, aviation has become intertwined within the fabric of the region's character - part of what makes the Cape and Islands one of the world's premier travel destinations. Roles that airports specifically play for the area include:

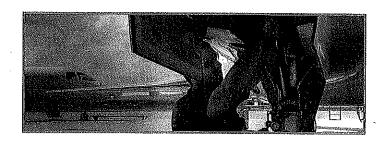
- Meeting demands for aviation access to and from the region
- Meeting demands for aviation access within the region
- Providing fast, all-season emergency transportation services
- Providing recreational opportunities for residents and visitors alike

Aircraft Maintenance Service Facilities

Aircraft are highly engineered machines that need unique care and maintenance. Aircraft maintenance service facilities located at airports throughout Massachusetts provide a variety of airframe and powerplant services as well as aircraft customization and avionics sales and repair. Many of these activities take place at businesses dedicated to aircraft maintenance, but a number of other on-airport businesses, most notably fixed-base operators, also attribute some of their economic impact to maintenance activities. The technicians at these businesses have years of knowledge and experience and provide high quality workmanship. Massachusetts' aircraft maintenance businesses are capable of providing a range of services for everything from piston-powered aircraft to turbine-powered jets at facilities ranging in size from small, one-person shops to large repair stations with over 100 employees.

One of the most notable examples of aircraft maintenance service facilities at Massachusetts' airports is Gulfstream Aerospace Corporation's service center at Westfield-Barnes Regional Airport. Gulfstream designs, develops, manufactures, services, and supports one of the world's most technologically advanced business-jet aircraft. Gulfstream's service center at Westfield-Barnes Regional is a certified FAA and European Aviation Safety Agency Part 145 repair station, which means the facility is capable of performing maintenance, repairs, alterations, and inspections on aircraft registered in the United States and European Union (EU) countries. The service center plays a critical role in servicing business-jet aircraft in the high-traffic New York and Boston metropolitan areas.

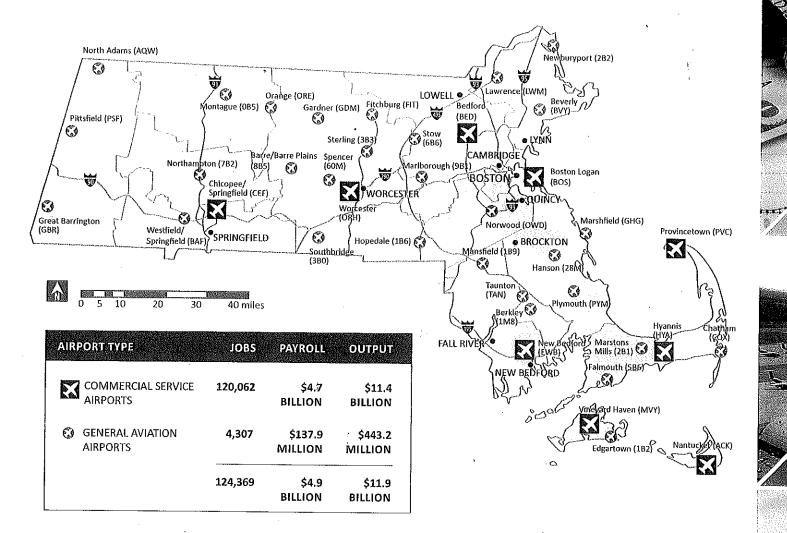
ECONOMIC IMPACT OF AIRCRAFT M	KAINITEN	AMAGE
Aircraft Maintenance Service Businesses:		63
Total Jobs:	;	773
Total Payroll:	\$40,	284,000
Total Output:	\$1610)	域/(4000)



Westfield is an important location for Gulfstream. The New York area has the most business-jet traffic in the world and the Boston area is also a business-jet hub. Westfield supports operators elsewhere in the Northeast and in Canada, Europe, and the Caribbean. The site's long reach and capabilities are tremendous assets to Gulfstream.

—Gulfstream Aerospace Corporation.





MassDOT Aeronautics Division Mission Statement:

Promote aviation throughout the Commonwealth, while providing an efficient integrated airport system that will enhance airport safety, economic development, and environmental stewardship.

For More Information, Contact:

MassDOT Aeronautics Division

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East Boston, MA 02128-2909

617-412-3680

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Project Management Team:

- Federal Aviation Administration (FAA)
- MassDOT Aeronautics Division
- Aircraft Owners and Pilots Association (AOPA)
- Cape Air
- Former Massachusetts Aeronautics Commission
- Massachusetts Airport Management Association (MAMA)
- Massachusetts Office of Business Development (MOBD)
- Massachusetts Port Authority (Massport)
- MassDOT Office of Transportation Planning
- National Business Aviation Association (NBAA)
- Massachusetts Business Aviation Association (MBAA)

Report Prepared by:

Wilbur Smith Associates with: Airport Solutions Group, LLC, The Louis Berger Group, Inc. and Spotlight Communications, Inc.

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- Massport Authority

THE ECONOMIC IMPACT OF

Nantucket Memorial Airport (ACK)

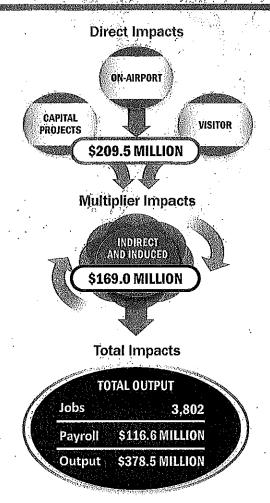
2014

Centrally located on the south side of the island of Nantucket, Nantucket Memorial Airport serves the commercial service and general aviation needs of the island. With its three runways, the longest of which is 6,303 feet, the airport can accommodate a wide range of commercial service and general aviation aircraft. The airport's facilities and services are ideal for accommodating the aviation needs of both local and transient users, while the air traffic control tower further enhances airport safety and efficiency.

As the premier destination airport in Massachusetts' system of commercial service airports serving the Cape and Islands region, flights from Hyannis, New Bedford, Plymouth, and other locations bring vacationers and summer home owners to Nantucket during the airport's peak period of activity from Memorial Day to Labor Day. The airport experiences a significant amount of general aviation activity, which is crucial to the day-to-day economy of the island. Corporate flights transport executives to summer homes, while smaller general aviation aircraft bring private pilots to the island, many of whom fly in to visit the island's beaches or eat at the airport's Crosswinds Restaurant & Bar. Nantucket Memorial Airport is also important to the island's economy by supporting the transport of workers who commute daily from the mainland as well as the transport of time sensitive cargo and food to the island. The airport is the primary means of evacuation off of the Island during emergencies, with air ambulance activity being common during the summer months.

The annual economic impact of Nantucket Memorial Airport is associated with direct impacts that come from operations at the airport, construction projects that are undertaken by the airport and its tenants, and spending from visitors who arrive on the island via commercial service and general aviation aircraft.





Economic Impact Types

Direct Impacts

include both on-airport and visitor impacts. Onairport impacts are those benefits associated with on-airport businesses, government tenants, military aviation, and capital construction projects. Visitor impacts generally take place off-airport and are attributable to visitor spending.

Multiplier Impacts

consist of indirect and induced impacts. Indirect impacts are related to the recirculation of monies spent locally by on-airport businesses. Induced impacts are those impacts resulting from the recirculation of employee payroll within the economy.

Total Economic Impacts

are the combination of all direct and multiplier impacts.

Massachusetts

Statewide Airport Economic Impact Study Update

Statewide Impacts

In 2013, when all of the impacts of Massachusetts' 39 airports were added together, 162,256 total jobs could be traced to the aviation industry. These employees accounted for more than \$6.1 billion in total payroll and generated nearly \$16.6 billion in total economic activity.

In addition to these economic benefits, airports in Massachusetts provide a number of health, welfare, and safety benefits, the impacts of which are beyond conventional measurement. Services such as medical transport and evacuation, flight training, law enforcement flights, wildlife management, military exercises, and search-and-rescue operations all contribute directly to the quality of life of those who live and work in Massachusetts.

TOTAL JOBS 162,256

TOTAL PAYROLL \$6.1 BILLION

TOTAL OUTPUT \$16.6 BILLION



Employment measures the number of full-time equivalent jobs related to airport activity including on-airport construction. A part-time employee counts as half a full-time employee.

Payroll measures the total annual wages and benefits paid to all workers whose salaries are directly attributable to airport activity.

Economic Activity (Output)

measures the value of goods and services related to airports in Massachusetts. The output of on-airport businesses is typically assumed to be the sum of annual gross sales and average annual capital expenditures.

A Connection to Economic Growth

Airports provide connectivity to worldwide markets and destinations, sustaining Massachusetts' expanding business community and its world renowned tourist destinations.

For the Commonwealth of Massachusetts, the sound of commerce resonates through its commercial service and general aviation airports. From the largest to the smallest, each of the 39 public-use airports (including Boston Logan International Airport) that constitute the Commonwealth's airport system contribute significantly to local, state and regional economies — resulting in the enhanced quality of life enjoyed by Massachusetts businesses, residents, and visitors. As primary economic engines that support existing industries while also helping develop new growth, Massachusetts' airports are responsible for generating billions of dollars in economic benefits for the Commonwealth that includes supporting thousands of local jobs. It is through this diverse system of airports that aviation helps to sustain, lead, and diversify the Commonwealth's economy.

Study Process

The economic impacts associated with aviation in Massachusetts were estimated using a standard econometric modeling process that has been approved by the FAA. This economic input-output model estimates economic impacts in terms of jobs, payroll and economic output. This methodology has been used to successfully quantify the value of airports and airport systems throughout the United States.

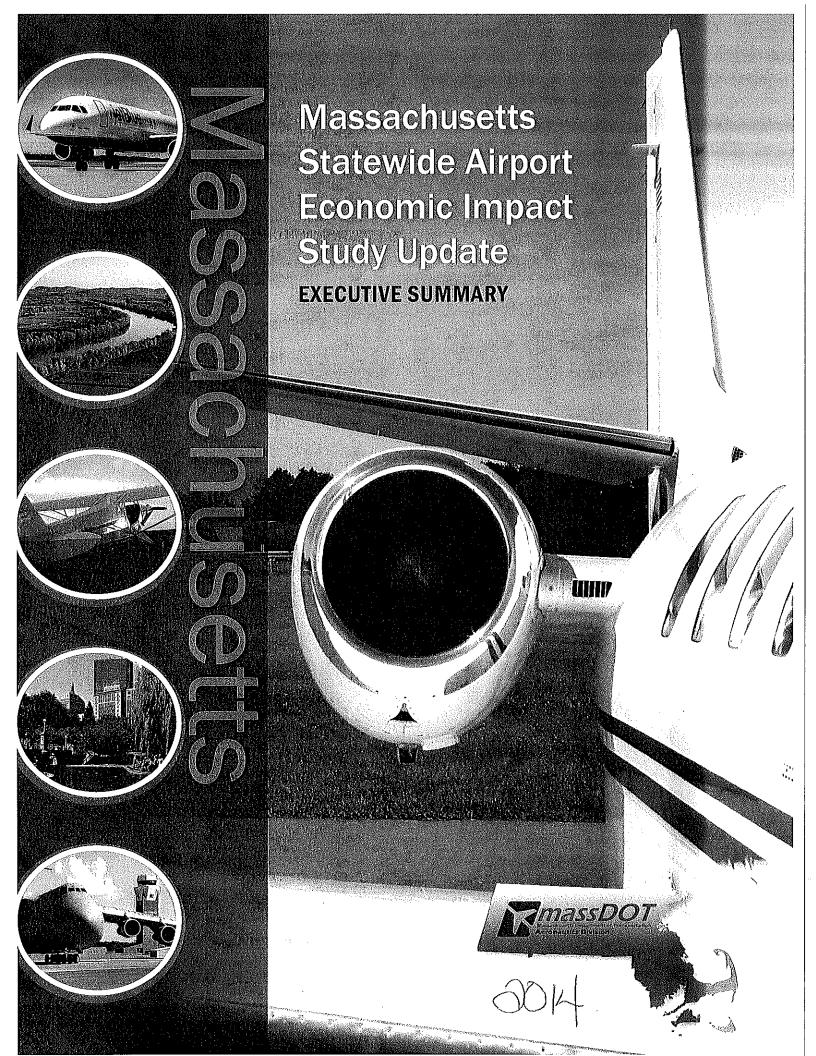
The input for this model came from numerous data gathering efforts for each Massachusetts airport. Airport managers and aviation-related businesses and government organizations were surveyed to collect the data necessary to estimate the on-airport employment, payroll, and output each airport supports. This included data pertaining to construction expenditures associated with on-airport capital projects. Visitors to Massachusetts using general aviation aircraft were surveyed to estimate the economic impacts their expenditures support. The economic impacts produced by visitors arriving in Massachusetts via commercial airlines were estimated by updating the expenditure patterns of those visitors from the 2011 Massachusetts Statewide Airport Economic Impact Study.

The induced and indirect impacts of these airport activities were calculated using multipliers that are specific to Massachusetts. In general, for every \$100 spent by aviation-related businesses, an additional multiplier impact of \$56 is created within Massachusetts. The total economic impact is the sum of all on-airport, construction, military aviation, visitor, and multiplier impacts.









Massachusetts Airports:

A Connection to Economic Growth

For the Commonwealth of Massachusetts, airports and aviation are a significant part of the state's emerging economy. Aviation has helped transform the way people and goods move across the globe, sustaining the Bay State's rapidly expanding business community and its world renowned tourist destinations. It has brought distant markets together and made a global economy possible. Businesses rely on aviation to deliver enhanced products and services to global markets in distant locations that would otherwise be difficult to reach or inaccessible. At both the state and regional levels, airports and the links they provide help to drive the economics in those states by generating billions of dollars in economic benefits that in turn support thousands of related jobs.

From 2011 to 2013, the Federal Aviation Administration (FAA), Massachusetts Department of Transportation (MassDOT), and airport sponsors have strategically

invested in airport infrastructure to improve and enhance economic development opportunities. These investments have already seen substantial return in the Commonwealth. As an update to the 2011 Massachusetts Statewide Airport Economic Impact Study, this 2014 study summarizes the significant economic benefit that Massachusetts derives each year from its 39 public-use airports. Sponsored by the Massachusetts Department of Transportation Aeronautics Division, this study is a continuation of an overall planning effort initiated by the Aeronautics Division in 2009 with the Massachusetts Statewide Airport System Plan (MSASP). While the MSASP examined the structure and long-term development of the statewide airport system as a whole, the goal of the Massachusetts Statewide Airport Economic Impact Study Update is to show how aviation serves as an economic engine for the Commonwealth, as well as documenting some of the many other benefits that air transportation brings to its host communities.

MassDOT Aeronautics Division Mission Statement

Promote aviation throughout the Commonwealth, while providing an efficient, integrated airport system that will enhance airport safety, economic development, and environmental stewardship.



Study Overview

Aviation is a significant economic catalyst in Massachusetts. From the airlines that serve the Commonwealth's commercial service airports and the variety of general aviation services found throughout the state to the military air facilities on the front lines of national defense, the aviation industry supports thousands of jobs and billions of dollars in economic activity. Commercial airlines in Massachusetts boarded more than 15 million passengers in 2013 while general aviation aircraft conducted an estimated 1.4 million operations.

When all of the impacts of Massachusetts' 39 public-use airports and associated military air facilities are added together, more than 162,000 jobs can be traced to the aviation industry. These employees receive \$6.1 billion in total annual payroll and generate \$16.6 billion in total economic activity. Since the 2011 Massachusetts Statewide Airport Economic Impact Study, these impacts have increased by approximately 38,000 jobs, \$1.2 billion in payroll, and \$4.7 billion in output.

On top of the economic impacts that can be measured quantitatively, airports in Massachusetts provide numerous health, welfare, and safety benefits that defy conventional measurement. Such services include medical transport and evacuation, flight training, law enforcement flights, wildlife management, search and rescue operations, and military exercises, all of which contribute directly to the quality of life

of those who live and work in the Commonwealth. Further case study analysis of aviation education and air charter provide examples of how Massachusetts airports improve the quality of life for Commonwealth residents, over and above the jobs, payroll, and economic activity that they generate.

Massachusetts Public-Use Airport System

Massachusetts' system of public-use airports is comprised of nine commercial service and 30 general aviation airports. While most of the system's 39 airports are publicly-owned, 11 are privately-owned and operated.

The MassDOT Aeronautics Division supports the operation and development of 36 of these airports through:

- Grant funding
- Airport inspections
- Technical guidance.
- Statewide planning initiative
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- . Communication with local, state and federal officials

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TRODIAN LEGICALIZAÇÕN KONMICENIMIRAKONESKOLEGIMESKAMENTARIA KONKONKONKON KONTROLEGIA (O TULESEA MESTALOGIA) LE



\$6.1 billion
Total Payroll



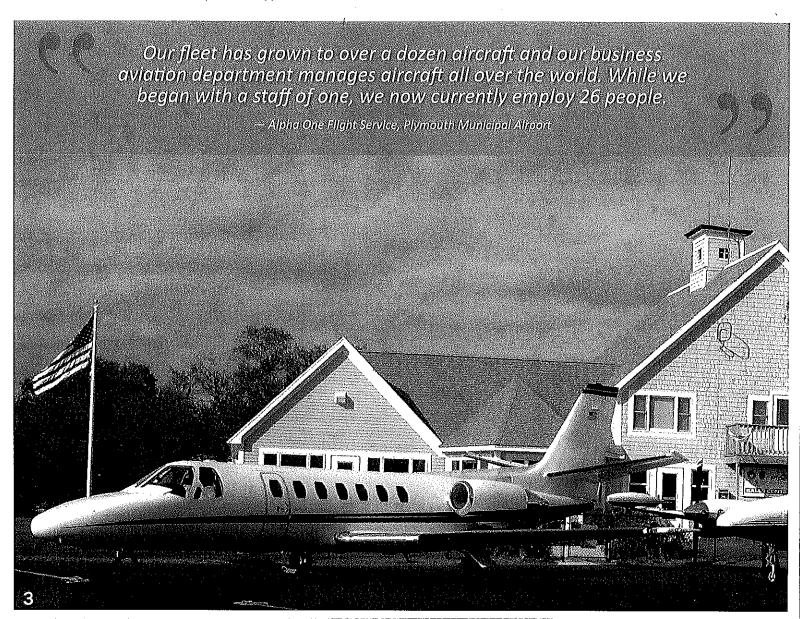
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impacts produced by visitors arriving in Massachusetts via commercial airlines were estimated by updating the expenditure patterns of those visitors from the 2011 Massachusetts Statewide Airport Economic Impact Study.

The induced and indirect impacts of these airport activities were calculated using multipliers that are specific to Massachusetts. For example, when an airport employee uses their salary to buy groceries at a local store, their spending helps to support that store and its employees. That spending then circulates or multiplies through the local economy by supporting the jobs and payroll of other businesses and thereby generates additional economic activity in the region. In general, for every \$100 spent by aviation-related businesses, an additional multiplier impact of \$56 is created within Massachusetts. The total economic impact is the sum of all on-airport, construction, military aviation, visitor, and multiplier impacts.



Quantifying Aviation Benefits

Economic Impact Types

Direct Impacts

include both on-airport and visitor impacts. On-airport impacts are those benefits associated with on-airport businesses, government tenants, military aviation, and capital construction projects. Visitor impacts generally take place off-airport and are attributable to visitor spending.

Multiplier Impacts

consist of indirect and induced impacts. Indirect impacts are related to the recirculation of monies spent locally by on-airport businesses. Induced impacts are those impacts resulting from the recirculation of employee payroll within the economy.

Total Economic Impacts

are the combination of all direct and multiplier impacts.



Impact Measures

Employment

measures the number of full-time equivalent (FTE) jobs related to airport activity. Two part-time employees count as one full-time employee. In the case of seasonal employment, two seasonal full-time employees count as one year-round full-time employee and four seasonal part-time employees count as one year-round full-time employee.

Payroll

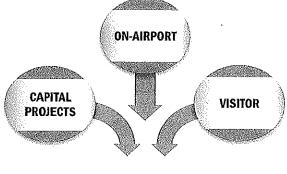
measures the total annual wages, salary, and benefits paid to all workers whose employment is directly attributable to airport activity.

Economic Activity (Output)

measures the value of goods and services related to airports in Massachusetts. The output of on-airport businesses is typically assumed to be the sum of annual gross sales and average annual capital expenditures. For those organizations where gross sales is not applicable (such as a government agency), output is estimated as the sum of annual payroll, annual expenses, and average annual capital expenditures.

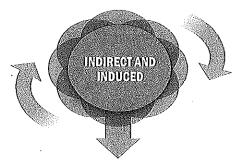
Ripple Effect

Multiplier impacts result from the recirculation and re-spending of direct impacts within the economy. For example, as airport employees spend their salary for housing, food, and services, those expenditures circulate, or ripple, through the economy resulting in increased spending, payroll, and employment throughout Massachusetts.

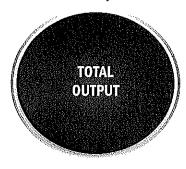


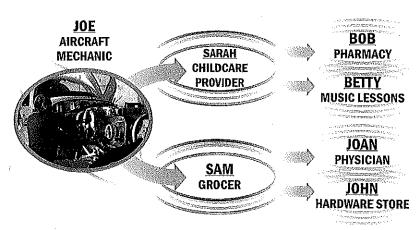
Direct Impacts

Multiplier Impacts



Total Impacts





Massachusetts Annual Economic Impacts

COMMERCIAL SERVICE AIRPORTS

Associated City	Airport Name	Total Employment ²	Total Payroll ²	Total Output ²
Bedford	Laurence G. Hanscom Field ¹	12,355	\$1,162,158,000	\$1,604,078,000
Boston	Boston Logan International Airport	131,991	\$4,290,597,000 ,	\$13,359,865,000
Chicopee/Springfield	Westover Air Reserve Base/Metropolitan Airport 1	5,241	\$195,081,000	\$255,691,000
Hyannis	Barnstable Municipal Airport-Boardman/Polando Field	2,135	\$85,358,000	\$208,023,000
Nantucket	Nantucket Memorial Airport	3,802	\$116,648,000	\$378,531,000
New Bedford	New Bedford Regional Airport	297	\$10,625,000	\$32,434,000
Provincetown	Provincetown Municipal Airport	379	\$11,336,000	\$33,945,000
Vineyard Haven	Martha's Vineyard Airport	. 1,232	\$38,170,000	\$120,049,000
Worcester	Worcester Regional Airport ³	358	\$14,925,000	\$46,433,000
COMMERCIAL S	SERVICE AIRPORTS TOTAL	157,790	\$5,924,898,000 \$1	L6,039,049,000

¹ Includes economic impacts associated with military operations located on the airport. See page 8 for specific military totals.

Total impacts include all on-airport business, construction, visitor, and muliplier impacts.
 Impacts for 2013 only include two months of JetBlue service. In 2014, Worcester Regional's JetBlue service surpassed 110,000 enplanements.

Newburyport (282) North Adams (AQW) 0 LOWELL Orange (ORE) (Č(3) Montague (085) Gardner (GDM) Pittsfield (PSF) Sterling (3B3) re/Barre Plains Northampton (782) Chicopee/ Springfield (CEF) **Great Barrington** Marshfield (GHG) (GBR) Westfield/ (J BROCKTON Provincetown (PVC) Springfield (BAF) Hanson (28M) COMMERCIAL SERVICE AIRPORTS Plymouth (PYM **GENERAL AVIATION AIRPORTS** <u>Vinev</u>ald Haven (MVY) Edgartown (182) Nantucket (A Cape Air

Massachusetts Annual Economic Impacts

GENERAL AVIATION AIRPORTS

		Total Employment ²	Total Payroll ²	
Associated City	Airport Name	iotar Employment -		Total Output ²
Barre/Barre Plains	Tanner:Hiller Airport	5	\$94,000	\$548,000
Berkley	Myricks Airport	<u>.</u> 3	\$34,000	\$74,000
Beverly	Beverly Municipal Airport	245	\$10,122,000	\$32,502,000
Chatnam	Chatham Municipal Airport	149	\$4,347,000	\$12,518,000
Edgartown	Katama Alrpark	17	\$520,000	\$1,895,000
Falmouth	Falmouth Airpark	. 7	\$271,000	\$621,000
Fitchburg	Fitchburg Municipal Airport	129	\$4,752,000	\$14,619,000
Gardner	Gardner Municipal Airport	8	\$237,000	\$800,000
Great Barrington	Walter J. Koladza Airport	43	\$1,164;000	\$3,321,000
Hanson	Cranland Airport	9	\$291,000	\$972,000
Hopedale	Hopedale Industrial Park Airport	14	\$408,000	\$899,000
Lawrence	Lawrence Municipal Airport	267	\$10,212,000	\$30,147,000
Mansfield	Mansfield Municipal Airport	54	\$1;804;000	\$9,392,000
Marlborough	Marlboro Airport	5	\$144,000	\$468,000
Marshfield	Marshfield Municipal Airport - George Harlow F	eld 74	\$3,627,000	\$9,154,000
Marstons Mills	Cape Cod Airport	8	\$213,000	\$876,000
Montague	Turners Falls Airport	. 14	\$498;000	\$1,801,000
Newburyport	Plum Island Airport	2	\$35,000	\$121,000
North Adams	Harriman-and-West Airport	97	\$3,557,000	\$11,259,000
Northampton	Northampton Airport	25	\$480,000	\$2,000,000
:Norwood ^a	Norwood Memorial Airport	394	** \$16;863;000	\$52,232,000
Orange	Orange Municipal Airport	147	\$4,849,000	\$13,992,000
Pittsfield	Pittsfield Municipal Airport	226	\$10;260;000	\$35,387,000
Plymouth	Plymouth Municipal Airport	319	\$13,669,000	\$47,867,000
Southbridge	Southbridge Municipal Airport	20	\$556,000	\$1,712,000
Spencer	Spencer Airport	3	\$63,000	\$141,000
Sterling	Sterling Airport	21	\$426,000	\$1,546,000
Stow	Minute Man Air Field	141	\$4,563,000	\$12,315,000
Taunton	Taunton Municipal Airport _ King Field /		\$978:000	\$3,261,000
Westfield/Springfield	Westfield-Barnes Regional Airport ¹	1,989	\$74,067,000	· \$213,628,000
GENERAL AVIATIO	N AIRPORTS TOTAL	4,466	\$169,104,000	\$516,068,000

ALL AIRPORT TOTALS

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¹ Includes economic impacts associated with military operations located on the airport. See page 8 for specific military totals.

Total impacts include all on-airport business, construction, visitor, and multiplier impacts.

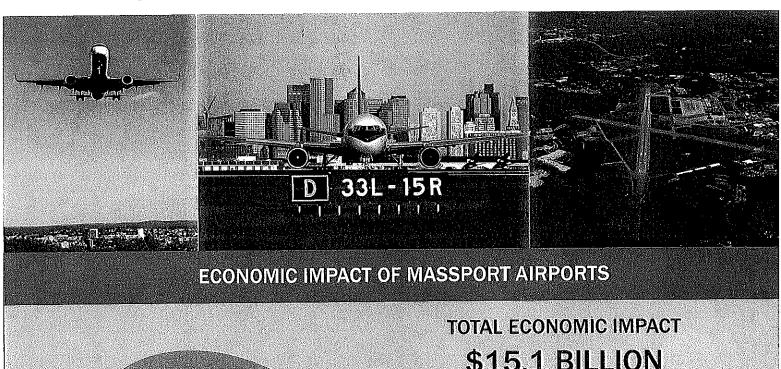
Massport Airports

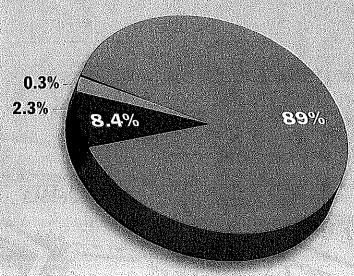


The Massachusetts Port Authority (Massport) plays a critical role in supporting the movement of people and goods in New England. Whether by boat or plane, Massport helps to connect the region to the national and global marketplace. Massport is focused on promoting safe, efficient, and cost-effective travel and transportation with an eye toward simultaneously enhancing economic prosperity and minimizing the impact of transportation and services on surrounding communities environment.

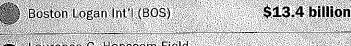
Massport is the owner and operator of Massachusetts' premier airports: Boston Logan International Airport, Laurence G. Hanscom Field, and Worcester Regional Airport. Boston Logan International is the largest airport in New England, with over 40 airlines serving more than 30 million passengers each year. Focusing on general aviation activity, Laurence G. Hanscom Field boasts outstanding facilities for corporate and private users and a convenient location that is just minutes from Boston's major highways and the Route 128 Technology Corridor. Meanwhile, Worcester Regional Airport serves Central Massachusetts' residents and businesses by supporting a mix of commercial service and general aviation activity. In 2014, Worcester Regional's enplanements increased by more than 110,000 as a result of JetBlue service.

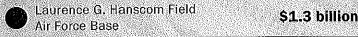
Massport's airports generate approximately \$15.1 billion in total output, which is 91 percent of the state airport system's total annual economic activity. This impact includes nearly 145,000 Massachusetts jobs and a total annual payroll estimated at \$5.5 billion.

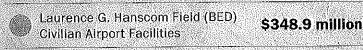


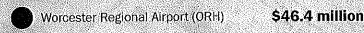


\$15.1 BILLION









Note: Massport numbers and percentages are rounded.

Additional Areas of Analysis

Qualitative Benefits

Beyond the quantitative aspects of aviation benefits, there are also qualitative benefits that deserve consideration when the total value of an airport system is analyzed. Qualitative benefits are those activities which take place at an airport on a regular basis that add to the quality of life, but are difficult to assign a dollar value. Qualitative benefits typically enhance the health, welfare, or safety of individuals in the airport's market area. While it may be difficult to place a dollar value on such impacts, these benefits, which vary throughout the Massachusetts airport system, improve the quality of life of the Commonwealth's residents in a variety of ways. Examples of qualitative benefits of aviation at Massachusetts' airports include facilitating emergency medical transport; providing police support; supporting forest and wildlands firefighting operations; serving as a staging area for community events; conducting search-andrescue operations; supporting aerial surveying, photography, and inspection operations; providing youth outreach activities; and supporting the U.S. military and other government organizations.

Military

Massachusetts has a long and distinguished military tradition dating back to colonial America. In addition to its many military bases and research facilities, Massachusetts is home to four active military air facilities that support multiple service branches: Hanscom AFB, Westover ARB, Barnes ANGB, and Joint Base Cape Cod. Along with the strategic military value that these facilities provide to the nation, Massachusetts realizes notable economic benefits from military aviation activities. The economic impacts attributed to these facilities are estimated at approximately 18,000 total jobs, \$1.4 billion in total annual payroll, and \$1.7 billion in total annual output.

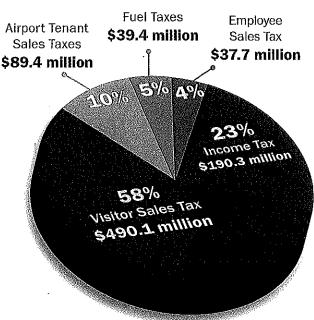
Airport Name	Employment	Payroll	Output
Hanseom AFB	10,610	\$1,066,163,000	\$1,255,196,000
Westover ARB	5,083	\$188,105,000	\$233,482,000
Barnes ANGB	1,302	\$32,685,000	\$106,359,000
Joint Base Cape Cod	1,192	\$92,990,000	\$134,571,000
TOTAL	18,187	\$1,379,943,000	\$1,729,608,000



TOTAL ECONOMIC IMPACT \$846.9 MILLION

Tax Impacts

Aviation in the Commonwealth plays an important role in generating tax revenues for Massachusetts and local municipalities for the provision of community services and protection of the public's health, safety, and welfare. A tax analysis was conducted for this study that estimated the revenues generated through the state sales tax, local sales taxes, lodging/restaurant taxes, rental car taxes, state income taxes, and aviation fuel taxes. The analysis also estimated the taxes paid by on-airport businesses, visitors arriving by both commercial airlines and general aviation aircraft, and employees supported by airport-related activity. These employees included those working on the airport for businesses and government organizations and those found off-airport that are supported by visitor spending. The analysis found that Massachusetts' airports annually generate an estimated \$846.9 million in tax revenues from aviation-related activities.



Aviation's Unique Aspects

Aviation Education

With aviation passenger traffic climbing globally and a record number of new aircraft orders, the time for training highly qualified aircraft operators, technicians, and engineers is now – and Massachusetts is positioning itself to fill that need. Here in Massachusetts, we see this as an opportunity! The Massachusetts airport system is currently home to 37 airport-based flight schools that provide flight training certifications from private pilot to airline transport pilot, as well as specialty training in aircraft such as helicopters, sport aircraft, and taildraggers. Beyond this, through a variety of independent but related initiatives – individuals, groups, schools, airports, and businesses are working together to create a "pathway" for the citizens of the Commonwealth to lucrative careers in aviation.

Early Education

Passion for aviation is typically born at an early age and is often fostered by those aviation enthusiasts that can be found at the local airport. Through airport open houses, air shows, airport tours and other events, kids are exposed to the world of aviation. Established airport programs like the Experimental Aircraft Association (EAA), Young Eagles, and the Civil Air Patrol provide children with their first opportunity to fly in a small plane and to

be part of the aviation community.
Other outreach efforts such as the
Wright Flight program establish
working partnerships between
airports and the local schools
to extend aviation education
into the curriculum.

Secondary Education

In recent years, a renewed emphasis is being placed on STEM (Science, Technology, Engineering and Math) education within Massachusetts as a means of preparing its youth for the career demands of today and tomorrow – and aviation is a primary beneficiary of that effort. The Wright Flight program, which provides students with ground school training, is part of an outreach effort that establishes working partnerships between airports and the local schools to extend aviation education into

the curriculum. Westfield Vocational Technical High School is in the process of starting a FAA Part 147 maintenance program that will enable students to graduate from high school with an airframe and powerplant license, which is critical to supply tomorrow's workforce for companies like Gulfstream at Westfield-Barnes Regional Airport.

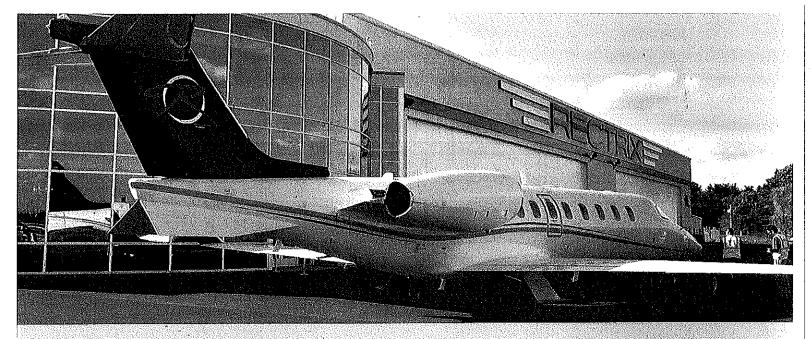
Post-Secondary Education

Massachusetts is home to a world-renowned college educational system - and this extends directly to the aviation industry. Bridgewater State University is the preeminent aviation program in New England, boasting its own flight academy and offering degrees that enable graduates to pursue careers as pilots, airport managers, flight planners, systems engineers, flight instructors, and air traffic controllers. Cape Cod Community College is initiating the development of a unique FAA-certified aircraft maintenance training program for meeting the critical need for highly skilled technicians in airframe and powerplant repair and certification for airlines like Cape Air. Other schools like North Shore Community College and Westfield State University partner with local flight schools to offer opportunities to integrate flight training with an aviation degree program. Finally, at the heart of the country's epicenter for technology education, the Massachusetts

Institute of Technology, Worcester Polytechnic Institute, and Boston University continue to develop the nation's leading aerospace scientists and engineers that will shape the future of aviation.

Education activities located on Massachusetts airports result in 487 jobs earning nearly \$14.3 million in payroll. Total output from on-airport education surpasses \$45.2 million.

ON-AIRPORT EDU	ICATION IMPACTS
Total Employment	. 487
Total Payroll	\$14,275,000
Total Output	\$45,223,000



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Air Charter

Time is a finite resource – and whether it is spent for professional or personal purposes, there is no getting around the fact that we cannot create more time. However, we can use it more wisely and more efficiently, such as when we utilize charter aircraft. Air charter refers to a variety of services available that allow individuals, corporations, or groups to move people and cargo in the fastest, most efficient manner available today. It can include the transporting of business people to open new markets, the transfer of patients during medical emergencies, the shipping of time-sensitive cargo to restart a production line that is down, as well as any other use where time and convenience are of the essence.

Air charter can eliminate logistical ineffectiveness by providing immediate point-to-point travel services that are fast and reliable. Moreover, flight time itself is much more productive as charter aircraft have the capability to allow their passengers to operate much as they would in a professional office. Air charter operators board passengers closer to their points of origin and deliver them closer to their final destination by effectively utilizing the country's vast general aviation airport network. This not only makes travel more convenient, it also allows businesses to operate in, or develop markets outside of major metropolitan areas due to the speed and accessibility provided by air charter.

Massachusetts realizes and benefits from significant air charter operations throughout its airport system. With 21 companies providing air charter services based within the Commonwealth, in addition to multiple companies operating as brokers for other air charter companies both inside of and outside of the Commonwealth, air charter is a driving force within Massachusetts. As evidenced by the pronounced use

of Massachusetts airports by NetJets, Flight Options, Rectrix, PlaneSense, and other operators and air charter brokerages that service Fortune 500 companies, air charter is an important tool that helps businesses to continue to operate, while also serving as a potential incentive for new businesses to locate to the Commonwealth. This important segment of the aviation industry is responsible for an estimated 408 jobs, \$22.1 million in payroll, and \$99.6 million in economic output.

Air charter operations are also critical to support Massachusetts' world class educational system, as students from around the world frequently travel via charter aircraft. Professional and collegiate sports teams regularly utilize air charter as they travel to and from the area for games and tournaments, as do thousands of fans in support of their teams. As an internationally recognized vacation destination, charter aircraft operations have proven to be a critical asset in moving tourists to and from distant destinations. For those who want to live in Massachusetts but have business interests elsewhere, air charter also allows those individuals the flexibility to be full-time or part-time citizens of our state. For many of Massachusetts' renowned festivals and events, air charter is one of the most important tools for allowing national and international access and participation. Additionally, an important component of air charter is that it can serve as a lifeline during emergency medical events where immediacy and accessibility save lives.

AIR CHARTER IMPACTS

Total Employment	408
Total Payroll	\$22,089,000
Total Output	\$99,621,000



- Project Management Team:
 Federal Aviation Administration (FAA)
- MassDOT Aeronautics Division
- Aircraft Owners and Pilots Association (AOPA)
- Massachusetts Airport Management Association (MAMA)
- Massachusetts Office of Business Development (MOBD)
- Massachusetts Port Authority (Massport)
- National Business Aviation Association (NBAA)

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- 3-126th AVN TBOS, Camp Edwards

Report Prepared by:

CDM Smith

CDM Smith

with Airport Solutions Group, LLC.
& Spotlight Communications

Massachusetts' 39 publicuse airports offer a competitive business advantage. Overall, for every \$100 spent by aviation related businesses, an additional \$56 is created as a multiplier impact that boosts spending, payroll and employment benefits improving the quality of life in Massachusetts for all its residents.