



Community Attributes Inc. tells data-rich stories about communities that are important to decision makers.

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EXECUTIVE SUMMARY

Sea-Tac International Airport serves as the gateway to Seattle, Washington state, and the larger Pacific Northwest for air travelers. It is the 9th busiest airport in the United States (as of 2016), hosting an estimated 46.8 million passengers in 2017. Air cargo volume at Sea-Tac increased by more than 10% between 2015 and 2016, and is estimated to total nearly 425,860 metric tons in 2017. Sea-Tac offers non-stop flights to more than 90 domestic and 20 international destinations. Sea-Tac connects Washington's businesses, goods and residents throughout the United States and to the world.

Key Asset to Washington Businesses

Firms of all sizes throughout Washington count on the worldwide connections that allow them to conduct business with their customers, vendors, partners, and connect them to the top talent they recruit throughout the globe. Washington's export industries depend on access to global markets, facilitated by the airport. The cherry industry is a prime example of a Washington industry that depends on the airport to transport their goods to global markets.

In 2016, Washington produced over 207,000 tons of cherries,³ of which roughly 21,500 tons (10%) were exported through Sea-Tac.⁴ These exports support jobs, wages, and economic activity in some of Washington's more rural communities in Yakima Valley and Wenatchee area.

Economic Impacts

Sea-Tac International Airport is an important driver for the Washington state economy. The airport's on-site activities directly supported **19,100 jobs** in 2017, and \$1.4 billion in total compensation. The average annual wage for these jobs is \$73,500. In total Sea-Tac International Airport **directly supported \$5.6 billion** in economic activity in 2017.

Overall, both directly and through multiplier effects, Sea-Tac International Airport supported almost \$22.5 billion in economic activity, 151,400 jobs throughout Washington and \$7.1 billion in total compensation.

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¹ Passenger data provided by the Port of Seattle. Passengers are defined as the total of all enplanements and deplanements at Sea-Tac International Airport, and include all travelers through the airport, including local travelers, transfers, and visitors. ² North American Airports Council International, 2016 North American Airport Traffic Summary.

³ National Agricultural Statistics Service (NASS), Agricultural Statistics Board, United States Department of Agriculture (USDA), June 2017.

⁴ U.S. Census Bureau: Economic Indicators Division USA Trade Online, 2017.

Visitor Impacts

An estimated **8.2 million visitors** traveled to Washington through Sea-Tac in 2017.⁵ These visitors on average spent \$876 per visit in Washington. The spending of visitors traveling to Washington through the airport supported 68,200 jobs, \$2.2 billion in total compensation, and \$5.9 billion in economic activity. This economic activity is generated through visitor spending on lodging, food, transportation, and more.

Community Impacts

Sea-Tac International Airport is also an important driver for local economies. Nearly 7,800 airport employees live in the communities of South King County, including Federal Way, Kent, SeaTac, and Tukwila, each home to more than 1,000 employees. Airport workers also make up a significant portion (more than 3%) of the resident labor force of Tukwila, SeaTac, Des Moines, and Federal Way.

The airport supported an estimated 26,300 jobs, \$1.7 billion in total compensation and \$6.4 billion in economic activity in the City of SeaTac in 2017. In Federal Way the airport supported 3,900 jobs and \$440 million in economic activity. Additionally, the airport supported 4,200 jobs in Tukwila and more than \$483 million in economic activity. Jobs supported by the airport represented 19% of total employment in Des Moines and airport supported economic activity represented 6% of total estimated city GDP. In Burien, Sea-Tac supported 1,400 jobs and almost \$157 million in economic activity. Jobs and economic activity supported by the airport's activities represented 18% of Normandy Park employment and 5% of estimated city GDP.

The Port of Seattle also works to promote economic development to benefit the communities in close proximity to the airport. This includes construction projects on vacant Port-owned land. In Des Moines, the Port is partnering with the City of Des Moines and Panattoni Development to build the Des Moines Creek Business Park, estimated to house more than 6,000 jobs. In Burien, the Port is working with the City of Burien, Panattoni Development and Bridge Development Partners on the Northeast Redevelopment Area Project to transition approximately 450,000 square feet of industrial warehouses to airport-compatible activities that both benefit the Burien economy and tax base as well as advancing the Port of Seattle's air cargo strategy.

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⁵ Visitors are a subset of the total passenger count. Visitors exclude all transfers and local residents included within the passenger number. Additionally, passengers include both enplanements and deplanements, while a visitor counts the number of round-trip non-local passengers staying within the region.

Capital Projects to Support Future Growth

Beyond capital projects on vacant Port-owned property, the Port of Seattle is also making significant investments in the airport to ensure that Sea-Tac can continue to serve the residents and businesses of Washington into the future. Between 2017 and 2022 the Port of Seattle is forecasted to spend \$3.2 billion on capital improvements at the airport. These improvements include the International Arrivals Facility, which will expand Sea-Tac's ability to meet demand for access to and from international destinations, and the North Satellite Modernization project, which will expand the North Satellite by eight new gates and will also double the existing square footage for dining and retail services.

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Introduction

Background and Purpose

Sea-Tac International Airport is a critical economic development asset for the Greater Seattle region, facilitating the movement of people and cargo to and from the region. Each year, millions of passengers fly into or out of Sea-Tac, including tourists who spend disposable household income in the region and business travelers, for which direct flights to and from Seattle are essential for commerce. The airport also moves hundreds of thousands of tons of air cargo each year, including seafood, mail, cherries, and medical devices. Air cargo shipments through the airport support both jobs handling these shipments and the industries that rely on close, efficient, and dependable air cargo services, such as the many farmers and agricultural produce companies in Eastern Washington that export to East Asia.

This study presents an updated assessment of the economic impacts of the airport to both Washington state and the surrounding airport communities with profiles for SeaTac, Burien, Des Moines, Normandy Park, Tukwila, and Federal Way. Analytics will assess both the total impact of airport activities and impacts by sub-category of activity.

Methods

Analytics presented in this report use data from a variety of sources, including state and federal employment, wage data, trade data, information and data provided by the Port of Seattle, and information and feedback from key airport stakeholders in the industry and the surrounding communities. Economic impact modeling leverages the Washington State Input-Output Model, with customizations to localize the model to economic conditions within each of the six cities for which detailed profiles were developed.

Organization of Report

The remainder of this report is organized as follows:

- Airport activities.
 - **Overview of Definitions and Categories** Reviews the definitions and categories used to describe the airport.
 - **Passenger airlines and services**. Describes passenger activities, including major employers and jobs, wages, and revenues generated from these activities at the airport and nearby businesses.
 - Airport services and business-to-business vendors.

 Discussion of on and off-site services focused on businesses, such as catering services to the airlines.

- **Ground transportation**. Describes and quantifies the ground transportation sector serving and supported by Sea-Tac, including car rentals and taxis.
- Contract Construction and Consulting Services. Profiles the construction and consulting services activities supported by Sea-Tac
- **Air Cargo**. Quantifies the volume and types of air cargo transported through Sea-Tac.
- **Visitor Impacts**. Illustrates the spending and activities supported by visitors traveling in and out of the region through Sea-Tac.
- **Sea-Tac Economic Impacts**. Summarizes the economic impacts of the airport.
- **Sea-Tac Fiscal Impacts**. Summarizes the fiscal impacts of the airport to the State of Washington.
- **Surrounding Cities**. Profiles the quantitative and qualitative impacts of the airport on each of six surrounding cities.

AIRPORT ACTIVITIES

Sea-Tac International Airport is home to more than 360 businesses, ranging from passenger airlines to ground transportation and air cargo. The airport also works with a variety of construction and consulting firms as part of the airport's long-term planning.

Overview of Definitions and Categories

Airport activities are broken into six major categories. These include passenger airlines and services; airport services and business-to-business vendors; ground transportation; contract construction and consulting services; air cargo; and off-site visitor spending. **Exhibit 1** provides an overview of businesses classified under each category.

A more detailed discussion of these six sectors is provided in the sections that follow, with a description of the major participants in each sector and their direct economic impacts.

Exhibit 1. Airport Activities by Category

| Passenger Airlines and Services | Airport Services and Business-to- Business Vendors | Ground Transportation | Contract Construction & | Air Cargo | Visitor Spending (off-site) |
|---------------------------------------|--|--------------------------|-------------------------|----------------|--------------------------------|
| Passenger Airlines | Aviation Service | Car Rental | Construction | Passenger | Local Retail, |
| | Firms | Firms | & Remodeling | and Air | Restaurants & |
| Skycaps | FBOs providing | | Services at | Cargo Airlines | Other Services |
| curbside check- | fuel, parts | Buses and | the Airport | | |
| in, wheelchair | | Shuttles | | Air Cargo | Entertainment |
| assistance, | Airline Catering | | Architecture & | Handlers | |
| baggage | Services | Limo Services | Engineering | | Accomodations |
| Bank & Insurance | | | Services | Freight | |
| currency exchange, flight | Airline Janitorial Services | Taxis | | Forwarders | Travel Agencies |
| insurance | | Uber, Lyft | | Trucking Firms | |
| | Port of Seattle | -, -, -, -, | | Moving | |
| Retail/ | Administration | | | Cargo | |
| Concession | | | | 9 - | |
| Tenants | State, City, | | | Air Couriers | |
| | Federal Govt. | | | | |
| | TSA, FAA, DHS | | | | |

Source: Community Attributes Inc., 2017.

Passenger Airlines and Services

The Passenger Airlines and Services category covers passenger airlines, Skycaps, banks and currency exchange, flight insurance, and airport retail and concession tenants.

The airport is served by 10 U.S.-flagged passenger airlines and 17 foreign-flagged passenger airlines.⁶ Passenger volume (including enplaning and deplaning) is expected to increase from 45.7 million in 2016 to an estimated 46.8 million in 2017 (**Exhibit 2**). Approximately 11% of 23.3 million enplaned passengers in 2017 were on international non-stop flights and 89% were on domestic flights.

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⁶ Sources provided by the Port of Seattle.

Passenaers (Millions) 50 46.8 45.7 ■ Enplaned -45 42.3 International 40 37.5 34.8 Deplaned -35 32.8 32.2 31.3 31.6 31.2 International 30.0 29.3 28.8 30 Enplaned -25 Domestic 20 ■ Deplaned -15 Domestic 10 20.5 19.0 16.9 15.6 15.0 3.8 5 2007 2008 2009 2010 2011 2012 2013 2014 2015

Exhibit 2. Sea-Tac Airline Traffic, Passengers Emplaned and Deplaned, 2004-2017

Sources: Port of Seattle, Current and Historic Traffic and Operations Statistics, 2017; Community Attributes Inc., 2017.

Exhibit 3 shows the distribution of passenger volumes by airline in 2017. Alaska Airlines and Delta carried an estimated 33 million passengers to and from Sea-Tac, accounting for over 70% of the total passenger volume.

The status of Sea-Tac as a major hub for Alaska Airlines and Delta is important not only for the national and global route connections that it enables, but for the volume of supporting economic activity that occurs at a hub airport facility. An airline "hub" refers to a strategically located airport where a carrier's major facilities and operations are housed, and where most of its scheduled flights originate from or terminate at. Hub airports are the most efficient way of connecting many destinations and create economies of scale by pooling demand.

^{*}The 2017 value is projected based on the percentage change in passenger numbers from 2016 year-to-date to 2017 year-to-date.

Exhibit 3. Airlines at Sea-Tac, Hubs and Headquarters, Sea-Tac International Airport, 2016-2017

| Airline Name | Projected Passengers 2017 | Passengers 2016 | % Change from 2016 |
|------------------------|---------------------------|-----------------|-----------------------|
| Alaska Airlines* | 22,624,000 | 22,734,000 | -0.5% |
| Delta Air Lines* | 10,388,000 | 9,430,000 | 10.2% |
| Southwest Airlines | 3,118,000 | 3,451,000 | -9.6% |
| United Airlines* | 2,987,000 | 2,869,000 | 4.1% |
| American Airlines | 2,597,000 | 2,707,000 | -4.1% |
| Spirit | 577,000 | 299,000 | 93.0% |
| JetBlue Airways | 554,000 | 578,000 | -4.2% |
| Virgin America | 537,000 | 549,000 | -2.2% |
| Hawaiian Airlines | 398,000 | 402,000 | -1.0% |
| Frontier Airlines | 291,000 | 329,000 | -11.6% |
| Emirates | 284,000 | 332,000 | -14.5% |
| Air Canada* | 280,000 | 266,000 | 5.3% |
| EVA Air | 273,000 | 214,000 | 27.6% |
| British Airways | 256,000 | 270,000 | -5.2% |
| Hainan Airlines | 243,000 | 207,000 | 17.4% |
| Lufthansa Airlines | 207,000 | 200,000 | 3.5% |
| American Eagle | 182,000 | 67,000 | 171.6% |
| Icelandair | 159,000 | 147,000 | 8.2% |
| Asiana Airlines | 150,000 | 147,000 | 2.0% |
| Korean Air | 135,000 | 128,000 | 5.5% |
| All Nippon Airways | 133,000 | 113,000 | 17.7% |
| Sun Country Airlines | 116,000 | 128,000 | -9.4% |
| Condor | 96,000 | 60,000 | 60.0% |
| Omni Air International | 41,000 | 65,000 | -36.9% |
| Other | 196,000 | 45,000 | 335.6% |
| Total | 46,822,000 | 45,737,000 | 2.4% |

Sources: Port of Seattle, Seattle-Tacoma International Airport Annual Activity Report, 2017; Community Attributes Inc., 2017.

Passenger and freight operations require a large number of supporting services at the airport. This contract work within the passenger services category includes: passenger check-in and ticketing, passenger boarding, airline lounge staffing, and baggage assistance. One example is Swissport International. The company operates three lines of business at Sea-Tac: fueling, ground handling, and cargo. Their ground handling division employs an estimated 400 people at Sea-Tac, of which approximately half are passenger service agents.

Concessionaires such as restaurants, bars, specialty shops, newspaper stands, and foreign exchange and travel insurance counters occupy leased

^{*}Passenger numbers are rollups and include passengers carried by regional partners. The 2017 values are projected based on the percentage change in passenger numbers by airline from 2016 year-to-date to 2017 year-to-date.

space in Sea-Tac's terminal buildings. These in-terminal retail businesses capture spending from both visitors to the region and connecting passengers, and accordingly support local employment.

HMS Host is the biggest provider of food and beverage services for travelers at Sea-Tac. The business operates several restaurant brands at the airport, such as Dungeness Bay Seafood, Dish D'Lish, the Great American Bagel, Seattle Taproom, and others. In 2017, HMS Host is expected to generate approximately \$62 million in concession sales at Sea-Tac International Airport.

Passenger Airlines and Services businesses employed an estimated 6,700 workers at Sea-Tac in 2017. These businesses paid \$503 million in total compensation to their employees and generated \$2.4 billion in direct business revenues.

Airport Services and Business-to-Business Vendors

The Airport Services and Business-to-Business Vendors category includes both government operations and private sector businesses. This category represents both government operations and vendor activities that do not involve direct customer engagement. Examples include Port of Seattle Airport Division staff, the Transportation Security Administration (TSA), baggage handling and other "backend" ground-handling activities, and airline catering services. **Exhibit 4** reports major employers under this category by airport employment.

Exhibit 4. Major Airport Services and Business-to-Business Vendors at Sea-Tac. 2017

| | 304 140, 2017 | |
|-------------------------|---------------------------------|-------|
| Employer | Description of services | Jobs |
| Federal Agencies | Airport Services | 1,800 |
| Port of Seattle | Administration | 1,700 |
| McGee Air Services* | Ground handling/cargo | 700 |
| Swissport* | Passenger/ground handling/cargo | 700 |
| Menzies Aviation Group* | Passenger/ground handling/cargo | 400 |
| G2 Secure Staff LLC* | Passenger/ground handling | 400 |
| DAL Global Services* | Passenger/ground handling/cargo | 300 |

Source: Port of Seattle, 2017; Community Attributes Inc., 2017.

Sea-Tac Airport is owned and operated by the Port of Seattle (POS) under their Aviation Division. Airport operations are self-sustaining and do not rely on any local tax dollars. Funds are generated through various fees, such as

^{*}Some of the total direct jobs at these companies are related to their passenger services and cargo operations at Sea-Tac International Airport. The number of jobs has been distributed between the different lines of business based on interviews with representatives from these businesses and secondary research for the economic impact analysis.

landing fees and aviation fees, parking revenues, retail revenues, land lease and rental income, passenger facility charges, and federal grants.

The Port of Seattle employs almost 1,700 employees within the Aviation Division and a portion of central support services staff for the airport. In 2017, the Division's operating expenditures are estimated to be \$297 million, of which more than half represented staff wages and benefits.

There are also a number of government agencies operating at Sea-Tac Airport to ensure the safety and security of the facility and its passengers. These include federal agencies such as the Transportation Security Administration (TSA), Customs and Border Protection (CBP), the Federal Aviation Administration (FAA), and the Federal Bureau of Investigation (FBI). Their activity is supplemented by state and local government services like the Washington State Patrol. These government agencies perform essential functions such as screening passengers, directing air traffic, and addressing any border-related issues for international travel.

Business-to-Business vendors provide critical airline services from the point at which an aircraft arrives at a terminal gate and its next departure. This includes cabin service, catering, ramp service, fueling, and baggage handling. Alaska Airlines outsources its ground handling at Sea-Tac Airport to McGee Air Services. Swissport Fueling division provides fueling services for approximately 90% of all airplanes departing from Sea-Tac.

Together, Airport Services and Business-to-Business Vendors directly supported 7,500 direct jobs, paid \$519 million in total compensation, and generated an estimated \$1.6 billion in direct business revenues in 2017.

Ground Transportation

Ground transportation includes car rentals, buses and shuttles, limo and taxi services, and rideshare services such as Uber and Lyft.⁷

The Port of Seattle constructed a five-story, 2.1 million square foot consolidated Rental Car Facility (RCF) in 2012 to meet the current and future demand of the passengers travelling through Sea-Tac. The facility supports airport-related rental car operations at one convenient location near the airport in the City of SeaTac. Construction of the facility supported approximately 3,000 jobs and generated over \$25 million in sales tax for the

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⁷ To avoid duplication in the economic impact analysis, only the impact of car rental activity will be considered under the Ground Transportation category while the impact of transportation by other modes will be captured under visitor impacts.

entire program.⁸ RCF is also expected to generate approximately \$45.1 million in revenue for the Port of Seattle Aviation Division in 2017.⁹

Exhibit 5. Estimated Car Rental Gross Sales, Sea-Tac International Airport, 2017

| 2017 | |
|-------------------------|--------------------------|
| Company | Amount (mils 2017 \$) |
| EAN Holdings, LLC | \$119.0 |
| Avis Budget Car Rental | \$77.8 |
| Hertz Corporation | \$51.7 |
| CMC Investments Inc | \$19.2 |
| DTG | \$15.3 |
| Fox Rent-a-Car, Inc | \$12.5 |
| Sixt Rent A Car LLC | \$13.0 |
| Payless Car Rental, Inc | \$6.2 |
| E-Z Rent A Car Inc | \$4.1 |
| Total | \$318.8 |

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

In 2017, gross sales of rental car companies located at RCF totaled an estimated \$319 million, with the highest sales achieved by EAN Holdings, LLC. Rental Car Facility activities supported approximately 600 direct jobs at the facility and around \$31.5 million in direct compensation.¹⁰

Contract Construction and Consulting Services

Capital investments by and related to Sea-Tac International Airport provide a significant stimulus to the local construction industry on an annual basis.

The Port of Seattle initiated several major construction projects at Sea-Tac in 2017. The airport contracted Clark Construction Group to design and build the International Arrivals Facility (IAF) on the east side of the current Concourse A. The project will add several new gates, approximately 450,000 square feet of floor space and an "iconic" bridge, which will connect the South Satellite Terminal to the IAF.

Seattle's business community has expressed enthusiasm about the improvements to the airport through the capital construction activities

^{*}EAN Holdings operates Alamo, Enterprise and National; CMC Investments also operates under the name Dollar Rent a Car; DTG also operates under Thrifty.

^{8 &}lt;u>https://www.portseattle.org/Business/Construction-Projects/Airport-Projects/Pages/Consolidated-Rental-Car-Facility.aspx</u>

⁹ Sources provided by the Port of Seattle.

¹⁰ Direct jobs and labor income estimates were based on a ratio of output per worker and labor income per worker for the car rental industry. The ratios were derived using data from the Washington State Department of Revenue and Washington State Employment Security Department.

underway. They anticipate that the new International Arrivals Facility, North Satellite Modernization, South Satellite Renovation, Baggage Handling System Optimization, and other major airport capital projects will help increase connections through Sea-Tac, which are essential to their business activities. Businesses noted that Sea-Tac is a gateway to the region, and it is also the first point of contact that their business visitors have with the entire region. The Port of Seattle's investment in expanding and improving the airport are essential to continuing to meet the growing demand for air travel and continually improving the airport experience for travelers.

Major capital projects underway are reported in **Exhibit 6**. These include modernization of the north satellite, a new optimized baggage handling system, and a new holdroom (additional space for passenger seating and departure processing). Sea-Tac is also in the middle of a long-term dining and retail redevelopment program that will increase options for travelers and create new opportunities for small and local businesses at the airport. Dining and retail square footage at Sea-Tac is expected to grow by at least 35% by 2025.

Exhibit 6. Major Capital Projects Under Way, Sea-Tac International Airport, 2017

| Project | Description | Estimated Project Costs | Project Construction Timeline |
|--|--|----------------------------|-------------------------------------|
| International Arrivals Facility (IAF) | The Port of Seattle is building a new, expanded International Arrivals Facility (IAF) at Sea-Tac Airport to meet growing regional demand for international service, enhance the passenger experience, advance the Puget Sound region as a leading tourism and business gateway, and serve the traveling public well into the future. | \$761 million | 2017 - 2020 |
| North Satellite Modernization | In collaboration with Alaska Airlines, the Port of Seattle will invest in the expansion and renovation of the north satellite. This will include adding eight new gates, expanding the footprint by 201,000 square feet, and more than doubling the existing dining and retail square footage. | \$658 million | 2017 - 2021 |
| Optimized Baggage Handling System | The Port of Seattle will build an optimized outbound baggage handling system (BHS) in collaboration with TSA. The new system will replace the existing aging conveyor system and allow the airport to meet current and future growth. | \$445 million | 2017 - 2025 |
| Concourse D Hardstand Holdroom | The Port of Seattle's Concourse D Hardstand Holdroom project will use space at Sea-Tac more efficiently to provide more space for passengers waiting for flights, reduce the amount of time passengers spend waiting for a plane to arrive at a gate, save greenhouse gas emissions from idling aircraft, and save airlines fuel. | \$38 million | 2017 - 2018 |

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

The airport is forecasted to spend approximately \$3.2 billion between 2017 and 2022 on capital projects, which includes major construction projects, smaller projects, and other overhead costs. This represents a 280% increase in spending over the preceding 6 years (from 2011 to 2016).

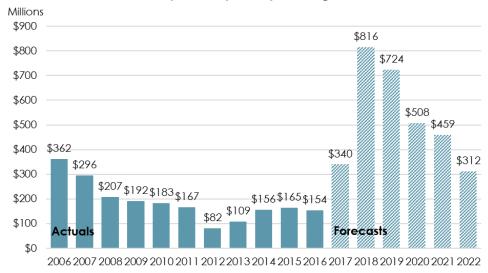


Exhibit 7. Airport Capital Spending, 2006-2022

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

In 2017, capital investments associated with Sea-Tac directly supported an estimated 2,000 jobs, generated \$154 million in total compensation and \$498 million in business revenues.

Air Cargo

Air cargo includes both air freight and air mail. Three major stages of service are identified and presented in **Exhibit 8**. Air cargo service begins with freight forwarding, which entails air cargo arrangements, logistics, and reserving of space on a freighter or belly of a passenger aircraft for cargo delivery. Ground handling represents the second stage of air cargo services. This includes the on-site warehousing, movement, and loading and unloading of air cargo from aircraft. The third stage of air cargo service, cargo delivery, can be done via the following:

- **Belly freight**, or air cargo that is loaded onto a passenger aircraft (34% of all air cargo by tonnage);
- Airline freighters, i.e., airlines that operate freighter-type aircraft. This category includes both airlines that only operate cargo freighters at Sea-Tac, e.g., China Airlines and Cargolux, and airlines that operate both passenger and separate air cargo aircraft (e.g., Alaska Airlines); and
- Express/integrated freight operations. These are vertically integrated operations that include freight forwarding, ground handling, and air cargo delivery services. Examples include FedEx and Amazon (Prime Air).

Air mail is a separate category of air cargo, and can similarly be delivered via air freighters or as belly freight.

Exhibit 8. Air Cargo Logistics Chain Only applies to FedEx Airline Freighters and Belly Freight (3) Cargo delivery Air Mail Discretionary Freighters (34%)Belly, freighter, air mail; (13%)(14%)(e.g., Delta, Alaska, percentage (%) of all (e.g., Korean Airlines, tonnage in () Hainan) Cargolux, Alaska Airlines) Express/Integrated Freight/Own-Third-Party Ground Handling Airline Integrated Network (e.g., (2) Ground (e.g., Swissport, WFS, Hanjin Global Handling FedEx, Amazon, (e.g., Delta) handling Logistics) DHL (38%)Air Mail (1) Freight Freight Forwarders processing (e.g., Expeditors International) on/off forwarding

Sources: Interviews with Port of Seattle representatives of cargo operations; Community Attributes Inc., 2017.

A range of businesses provide air cargo services. These include large employers such as Delta (which has its own workforce for air cargo ground handling and delivery), and businesses that provide express services such as FedEx, Amazon's Prime Air, and DHL. Major third-party ground handling services include Swissport, WFS, and Hanjin Global Logistics. Freight forwarders range from large, multinational operations such as Expeditors International, which deals with both air and marine cargo, to smaller family-run operations that specialize in a product or cargo type. Matheson provides both on and off-airfield air mail processing for the United States Postal Service.

In 2017, an estimated 425,860 metric tons of air cargo was loaded or unloaded at Sea-Tac International Airport, 16% more than in 2016. Of this, 43% by tonnage was delivered via express/integrated freight/own-network operations and 31% was delivered by belly freight. Air mail shipments constituted another 14% by tonnage, followed by other freighters (discretionary and allied freight) at 12% (Exhibit 9).

airfield

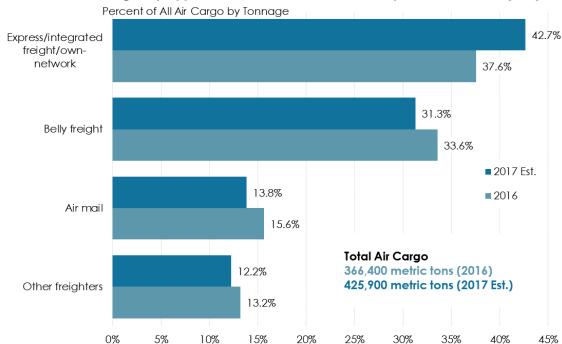


Exhibit 9. Air Cargo by Type, Sea-Tac International Airport, 2016-2017(Est.)

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

In 2016, FedEx was the single largest air cargo carrier by tonnage, with more than 102,000 metric tons of cargo (**Exhibit 10**). Alaska Airlines and Delta each handled the delivery of nearly 30,000 metric tons, followed by ABX Air (18,500 metric tons), China Airlines (13,100 metric tons), Korean Air (12,700 metric tons), and Air Transport International (12,400 metric tons).

Exhibit 10. Air Freight Carriers, Sea-Tac International Airport, 2016

| Airline | Air Freight Volume (metric tons) |
|-----------------------------|--|
| FedEx | 102,000 |
| Delta Air Lines | 29,900 |
| Alaska Airlines | 28,200 |
| ABX Air | 18,400 |
| China Airlines | 13,100 |
| Korean Air | 12,700 |
| Air Transport International | 12,400 |
| EVA Air | 9,600 |
| Cargolux | 9,100 |
| Hainan Airlines | 8,900 |
| British Airways | 8,600 |
| Asiana Airlines | 7,600 |
| All Nippon Airways | 7,200 |
| Hawaiian Airlines | 5,700 |
| Southwest Airlines | 5,600 |
| Emirates | 4,800 |
| Atlas Air | 4,600 |
| Lufthansa Airlines | 4,400 |
| Other | 14,600 |
| Total Air Freight | 309,100 |

Sources: Port of Seattle (as reported by airlines), 2017; Community Attributes Inc., 2017.

FedEx was also the largest single provider of air mail delivery services, with 34,300 metric tons (representing roughly a quarter of all FedEx air cargo). In 2016, 57,300 metric tons of air mail was delivered through Sea-Tac International Airport (**Exhibit 11**).

Exhibit 11. Air Mail Carriers, Sea-Tac International Airport, 2016

| Airline | Air Mail Volume (metric tons) |
|-------------------|-------------------------------------|
| FedEx | 34,300 |
| Alaska Airlines | 9,100 |
| Delta Air Lines | 5,500 |
| United Airlines | 5,300 |
| American Airlines | 2,400 |
| Other | 600 |
| Total Air Mail | 57,300 |

Sources: Port of Seattle (as reported by airlines), 2017; Community Attributes Inc., 2017.

Note: Total may not sum due to rounding.

Air cargo is often the only mode available for perishable and/or time sensitive products, such as cherries, as well as high value electronic instruments and components. Air cargo is thus a critical resource for many Washington businesses selling into global markets, including farmers in Eastern Washington, medical device manufacturers in Bothell, and many other businesses across the state.

Leading international air cargo exports in 2016 included cherries, at more 19,400 metric tons. In total more than 83,600 metric tons in air cargo were shipped internationally out of Sea-Tac International Airport in 2016, at reported export value of \$8.8 billion (**Exhibit 12**).

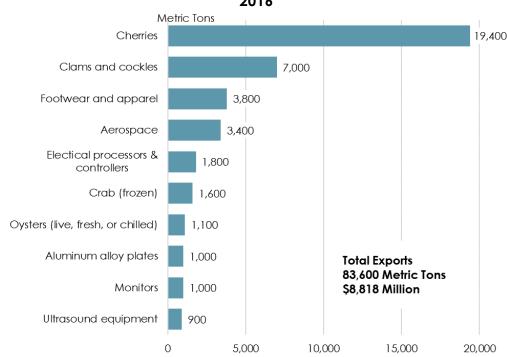


Exhibit 12. Air Cargo Exports by Category, Sea-Tac International Airport, 2016

Sources: WISER Trade, provided by Port of Seattle, 2017; Community Attributes Inc., 2017.

International air cargo imports are similarly often either time sensitive and/or high value products, such as key manufacturing inputs and perishable goods. The nearly 56,700 metric tons of air cargo imports represented a higher value than exports at more than \$9.2 billion in 2016 (**Exhibit 13**). Leading imported goods included salmon, seat parts, returned exports, and aerospace parts.

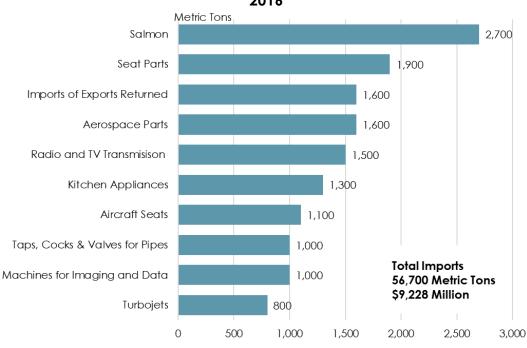


Exhibit 13. Air Cargo Imports by Category, Sea-Tac International Airport,

Sources: WISER Trade, provided by Port of Seattle, 2017; Community Attributes Inc., 2017.

In 2017, there were approximately 2,300 on-site jobs directly supported by the air cargo activities at Sea-Tac International Airport. These jobs were paid an estimated \$195 million in total compensation. Air cargo activities at Sea-Tac directly generated an estimated \$796 million in economic activity in 2017.

Visitor Spending

Sea-Tac is the primary gateway to the Puget Sound region. Millions of visitors arrive and depart from the airport annually. These visitors are non-residents whose final destination is in Washington state. In this study, visitors do not include passengers who are returning home from a trip to another destination or passengers that are making a connection to another flight.

In 2017, an estimated 8.2 million visitors arrived in Washington state through Sea-Tac International Airport. Over 90% of these visitors were domestic travelers while the rest were international travelers. Approximately 50% of international visitors to the Seattle region came from four countries: Canada, China, Japan, and Mexico (Exhibit 14).

Exhibit 14. Countries of Origin of International Visitors to the Seattle Region,
Sea-Tac International Airport, 2017

| | Total Pax | % Inbound to | |
|----------------|------------------|--------------|---------|
| Origin Country | (bi-directional) | Seattle | R/T |
| Canada | 522,200 | 62% | 162,700 |
| China | 330,200 | 52% | 86,200 |
| Japan | 259,500 | 62% | 80,600 |
| Mexico | 561,400 | 22% | 60,300 |
| United Kingdom | 247,300 | 41% | 50,800 |
| India | 191,800 | 41% | 39,600 |
| South Korea | 133,000 | 59% | 39,100 |
| Germany | 140,900 | 32% | 22,200 |
| Australia | 67,600 | 61% | 20,600 |
| Hong Kong | 78,200 | 46% | 18,000 |
| Taiwan | 64,000 | 50% | 16,100 |
| Philippines | 109,000 | 18% | 10,000 |
| Other | 1,327,300 | 29% | 189,800 |
| Total | 4,032,400 | 39% | 796,000 |

Sources: Diio FMg, provided by Port of Seattle, 2017; Community Attributes Inc., 2017.

Visitor Patterns

The Port of Seattle commissioned an in-terminal survey of passengers at Sea-Tac to estimate the economic impact of domestic and international spending in the region. This in-terminal passenger survey was conducted in the months of August and September 2017 and yielded 1,007 responses.

The survey found that most visitors to the area are pleasure travelers (58%), followed by business travelers (29%). The survey also asked visitors how they travelled to Sea-Tac International Airport. Car was the dominant mode of transportation, with 23% of visitors travelling by private car, 22% travelling by rental car, 16% taking Uber or Lyft, and 5% taking a taxi to the airport (**Exhibits 15 and 16**).

Percent of Visitors 70.0% 58.1% 60.0% 50.0% 40.0% 28.6% 30.0% 20.0% 8.6% 10.0% 3.6% 0.6% 0.0% Other Convention Pleasure **Business** Cruise /Personal

Exhibit 15. Visitors' Purpose of Stay, 2017

Sources: Port of Seattle Passenger Survey, 2017; Community Attributes Inc., 2017.

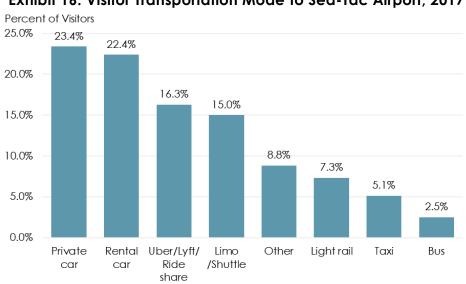


Exhibit 16. Visitor Transportation Mode to Sea-Tac Airport, 2017

 $Sources: Port\ of\ Seattle\ Passenger\ Survey,\ 2017;\ Community\ Attributes\ Inc.,\ 2017.$

Based on survey results, 60% of respondents stayed in a hotel or motel during their visit, while 38% of respondents stayed in a private home, either a second residence or the home of family or friends (**Exhibit 17**).

Percent of Visitors 60.0% 53.6% 50.0% 40.0% 34.3% 30.0% 20.0% 10.0% 5.6% 4.6% 1.8% 0.0% Hotel/Motel Private Home Short-term Other Campground rental

Exhibit 17. Visitor Lodging Type, 2017

Sources: Port of Seattle Passenger Survey, 2017; Community Attributes Inc., 2017.

International visitors tend to spend more than domestic visitors across all categories. On average, an international visitor spent roughly \$1,260 per trip while a domestic visitor spent almost \$836 per trip. Lodging and food and beverage were the categories with the highest spending accounting for approximately half of the total spending per trip.

Exhibit 18. Average Spending per Person Off-Airport by Visitor Type and Expense Category. 2017

| Category of Spending | Domestic Visitors (2017 \$) | International Visitors (2017 \$) | All Visitors (2017 \$) |
|--------------------------------|-----------------------------------|--|---------------------------|
| Lodging | \$297 | \$357 | \$304 |
| Food/Beverage | \$164 | \$261 | \$173 |
| Rental Car | \$145 | \$260 | \$154 |
| Entertainment | \$93 | \$152 | \$99 |
| Retail Purchases | \$96 | \$169 | \$103 |
| In-town Cabs and/or Ride Share | \$40 | \$61 | \$42 |
| Total | \$836 | \$1,260 | \$876 |

Sources: Port of Seattle Passenger Survey, 2017; Community Attributes Inc., 2017.

Note: Spending is expressed per visitor and per trip. To increase sample size and provide statistically reliable estimates, the results of the 2017 survey were supplemented with the output of the 2014 in-terminal passenger survey.

SEA-TAC ECONOMIC IMPACT

Economic impacts include: 1) activities directly on airport property (direct impacts); 2) business-to-business transactions tied to on-site activities (indirect impacts); and 3) worker income expenditures across other parts of the economy (induced impacts). Moreover, impacts include both on-site airport activities and visitor impacts.

Businesses and government agencies located on airport premises are important generators of economic activity. Airport activities require staff who contribute to the regional economy through their work and personal spending. Construction and maintenance of the facilities contributes additional employment and spending. Visitors to the region spend money on food service, accommodations, entertainment, and shopping.

Businesses at Sea-Tac procure goods and services from supply chains in nearby communities and statewide. Workers at Sea-Tac Airport also spend their wages locally on goods and services, and the same is true of workers employed throughout the supply chain.

Direct Impacts

On-site Airport Activity

Employee counts provided by the Port of Seattle are one method of estimating direct jobs at the airport. The Port of Seattle maintains records of employees who work at the airport, both inside and outside security. This data does not capture ground transportation activities, as well as passenger airline staff and crew who are not based on Seattle.

Port of Seattle employment data show that major employers at Sea-Tac include Alaska Airlines and Delta—Sea-Tac serves as a hub for both airlines—as well as government employers such as the Port of Seattle Aviation Division and federal agencies, and ground handling operations such as McGee Air Services and Swissport (**Exbibit 19**).

Exhibit 19. Major Employers at Sea-Tac International Airport, 2017

| Rank | Employer | Jobs |
|------|------------------------|-------|
| 1 | Federal Agencies* | 1,800 |
| 2 | Alaska Airlines | 1,700 |
| 3 | Port of Seattle | 1,700 |
| 4 | Delta Air Lines | 1,500 |
| 5 | McGee Air Services | 700 |
| 6 | Swissport* | 700 |
| 7 | HMS Host | 600 |
| 8 | Horizon Air | 600 |
| 9 | Federal Express Corp | 500 |
| 10 | United Airlines | 400 |
| 11 | Menzies Aviation Group | 400 |
| 12 | G2 Secure Staff LLC | 400 |

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

The organizations located at Sea-Tac International Airport employed an estimated 19,100 people in 2017 (**Exhibit 20**). Approximately 74% of the jobs directly generated by on-site airport activity are concentrated in the airline/airport categories. The direct economic impact of this employment on the Washington state economy is \$5.6 billion in business revenue and \$1.4 billion in total compensation (including employee benefits).

Exhibit 20. Direct Jobs, Wages, Compensation, and Business Revenues, Washington, 2017

| Category | Jobs | Business Revenue (mils 2017 \$) | Wages (mils 2017 \$) | Compensation (incl. Benefits) (mils 2017 \$) |
|---------------------------------|--------|---------------------------------------|-------------------------|--|
| On-site Airport Activity | 19,100 | \$5,574.8 | \$1,109.8 | \$1,403.0 |
| Passenger Airlines and Services | 6,700 | \$2,386.3 | \$399.4 | \$503.2 |
| Airport Services and Vendors | 7,500 | \$1,575.4 | \$412.5 | \$519.4 |
| Ground Transportation* | 600 | \$318.8 | \$25.2 | \$31.5 |
| Contract Const. and Consulting | 2,000 | \$498.3 | \$124.1 | \$153.7 |
| Air Cargo | 2,300 | \$796.0 | \$148.6 | \$195.1 |
| Visitor Impacts | 68,200 | \$5,906.5 | \$1,878.0 | \$2,247.8 |
| <u>Total</u> | 87,300 | \$11,481.3 | \$2,987.8 | \$3,650.8 |

Sources: Washington State Employment Security Department, 2017; Washington State Office of Financial Management, 2017; U.S. Bureau of Labor Statistics, 2017; Port of Seattle, 2017; Community Attributes Inc., 2017.

^{*}Federal Agencies include jobs with a wide range of federal agencies that work at the airport, including the FAA, USDA, CBP, TSA, US Coast Guard, US Fish & Wildlife, and others. Swissport includes Swissport Cargo Services, Swissport Fueling Inc. and Swissport USA.

Visitor Impacts

Visitor impacts represent the jobs, total compensation, and business revenues supported through visitor spending on hotel accommodations and retail purchases. The economic impact of visitor spending depends on the amount and category of spending and the length of stay. On average visitors to Washington traveling through Sea-Tac spend \$876 per trip. The 8.2 million visitors to Washington spent nearly \$5.9 billion off-airport in 2017. Visitor spending supported 68,200 jobs in and approximately \$2.2 billion in total compensation in the lodging, food/beverage, recreational and entertainment, transportation, and retail sectors.

Airport Occupations and Wages

Jobs at the airport pay an estimated \$73,500, including both wages and benefits on average. **Exhibit 21** displays the median and average wage of some of the most common occupations in air transportation and supporting sectors in the Seattle-Bellevue-Everett region.

Exhibit 21. Air Transportation and Support Occupations, Median and Average Wage, Seattle-Bellevue-Everett Metropolitan Division, 2017

| Occupation | Median | Average |
|---|-----------|-------------|
| | Wage | Annual Wage |
| Transportation, Storage & Distribution Managers | \$118,435 | \$120,573 |
| Software Developers, Systems Software | \$118,040 | \$118,479 |
| Computer Occupations, All Other | \$85,322 | \$91,431 |
| Avionics Technicians | \$81,973 | \$76,482 |
| Business Operations Specialists, All Other | \$75,670 | \$80,930 |
| Mechanics, Installers & Repairers Supervisors | \$72,446 | \$73,847 |
| Training & Development Specialists | \$71,656 | \$73,389 |
| Accountants & Auditors | \$69,930 | \$76,644 |
| Office & Admin Support Worker Supervisors | \$61,381 | \$65,279 |
| Painters, Transportation Equipment | \$59,134 | \$63,914 |
| Transportation Workers, All Other | \$56,326 | \$54,735 |
| Dispatchers (Except Police, Fire & Ambulance) | \$52,458 | \$54,782 |
| Cargo & Freight Agents | \$50,107 | \$51,259 |
| Production, Planning & Expediting Clerks | \$49,400 | \$52,852 |
| Bookkeeping, Accounting & Auditing Clerks | \$44,782 | \$46,470 |
| Maintenance & Repair Workers, General | \$43,451 | \$46,258 |
| Aircraft Cargo Handling Supervisors | \$42,120 | \$50,648 |
| Customer Service Representatives | \$39,104 | \$40,895 |
| Reservation/Transp Ticket Agents/Travel Clerks | \$37,898 | \$38,710 |
| Security Guards | \$32,427 | \$37,132 |
| Stock Clerks & Order Fillers | \$31,013 | \$34,411 |
| Laborers/Freight, Stock & Material Movers | \$30,722 | \$34,001 |
| Personal Care & Service Workers, All Other | \$27,830 | \$30,363 |
| Airline Pilots, Copilots & Flight Engineers | * | \$206,452 |
| Commercial Pilots | * | \$119,831 |
| Flight Attendants | * | \$72,511 |

Sources: Washington State Employment Security Department, 2017; Community Attributes Inc., 2017.

Total Economic Impacts

The direct economic activities at Sea-Tac and the off-site activities serving visitors lead to upstream impacts through supply chain activities and the spending of worker income. The companies supplying goods and services to businesses at the airport and to businesses serving visitors off-airport make their own purchases, stimulating indirect activity. Workers at the airport, workers at businesses serving visitors and at businesses throughout the supply chain spend their earnings on various goods and services generating induced effects.

The total economic impact of Sea-Tac International Airport represents the sum of direct, indirect, and induced effects. **Exhibit 22** below summarizes impacts to Washington state by category and in total. Aggregate economic

impact totaled \$22.5 billion in business revenues in 2017, 151,400 jobs, and \$7.1 billion in total compensation.

Exhibit 22. Total Economic Impacts of Sea-Tac International Airport,
Washington, 2017

| washington, 2017 | | | |
|-----------------------------------|------------|------------|------------|
| | On-site | | |
| | Airport | Visitors | Total |
| | Activity | | |
| Jobs | | | |
| Direct | 19,100 | 68,200 | 87,300 |
| Indirect | 8,800 | 13,900 | 22,700 |
| Induced | 16,100 | 25,300 | 41,400 |
| Total | 44,000 | 107,400 | 151,400 |
| Total Compensation (mils 2017 \$) | | | |
| Direct | \$1,403.0 | \$2,247.8 | \$3,650.8 |
| Indirect | \$503.0 | \$748.5 | \$1,251.4 |
| Induced | \$854.3 | \$1,343.0 | \$2,197.3 |
| Total | \$2,760.2 | \$4,339.3 | \$7,099.5 |
| Business Revenue (mils 2017 \$) | | | |
| Direct | \$5,574.8 | \$5,906.5 | \$11,481.3 |
| Indirect | \$2,001.1 | \$2,450.7 | \$4,451.8 |
| Induced | \$2,544.6 | \$4,000.3 | \$6,544.9 |
| Total | \$10,120.5 | \$12,357.5 | \$22,477.9 |

Sources: Washington State Employment Security Department, 2017; Washington State Office of Financial Management, 2017; U.S. Bureau of Labor Statistics, 2017; Port of Seattle, 2017; Community Attributes Inc., 2017.

The bulk of direct economic activity associated with Sea-Tac-based employers occurs in King County, as the jobs on-site at Sea-Tac are located in King County. Secondary impacts to King County in 2017, including indirect and induced effects, amounted to 22,400 jobs, more than \$1.2 billion in total compensation, and \$2.8 billion in business revenues (**Exhibit 23**).

Exhibit 23. Total Economic Impacts of On-Site Airport Activity at Sea-Tac International Airport, King County, 2017

| | On-site Airport Activity | | |
|-----------------------------|---------------------------|--|--|
| Jobs | | | |
| Direct | 19,100 | | |
| Indirect | 7,600 | | |
| Induced | 14,800 | | |
| Total | 41,500 | | |
| Labor Income (mils 2017 \$) | | | |
| Direct | \$1,403.0 | | |
| Indirect | \$430.2 | | |
| Induced | \$782.2 | | |
| Total | \$2,615.4 | | |
| Business Revenue (mils | 2017 \$) | | |
| Direct | \$5,574.8 | | |
| Indirect | \$1,306.9 | | |
| Induced | \$1,512.3 | | |
| Total | \$8,394.0 | | |

Sources: Washington State Employment Security Department, 2017; Washington State Office of Financial Management, 2017; U.S. Bureau of Labor Statistics, 2017; Port of Seattle, 2017; Community Attributes Inc., 2017.

SEA-TAC FISCAL IMPACTS

The economic impacts of Sea-Tac International Airport support various state and local tax bases, which in turn yield tax revenues. Much of the private sector airport-related activity generates taxes directly. The indirect and induced activities generated by both public and private sector expenditures generate additional taxable revenues.

The direct and secondary economic activities related to the airport generate a significant volume of sales and use taxes, business and occupation tax, and other taxes (public utility taxes, quantity taxes etc.). In 2017, the total economic activity attributable to Sea-Tac International Airport generated an estimated \$425 million in state taxes. This included \$116 million from onsite airport activity and \$299 million from visitor spending (**Exhibit 24**). Business activities within King County supported—either directly or via secondary impacts—by the airport's on-site operations supported \$91.2 million in state tax revenues (**Exhibit 25**).

PORT OF SEATTLE
AIRPORT ECONOMIC IMPACTS

¹¹ Due to limited availability of tax data at the local level, only state tax payments were estimated for Washington state and King county. Local tax payments were estimated for the six cities with detailed profiles in the Community Impacts section of this report.

Exhibit 24. Direct and Secondary State Fiscal Impacts of Sea-Tac International Airport, Washington, 2017

| | On-site Airport Activity | Visitors | Total |
|-------------------------------------|--------------------------|----------|---------|
| Direct (mils 2017 \$) | | | |
| Sales & Use Taxes | \$10.2 | \$20.3 | \$30.4 |
| B&O | \$32.8 | \$167.7 | \$200.5 |
| Other | \$2.7 | \$2.7 | \$5.4 |
| Total Direct | \$45.7 | \$190.6 | \$236.3 |
| Secondary (mils 2017 \$) | | | |
| Sales & Use Taxes | \$18.6 | \$27.7 | \$46.2 |
| B&O | \$43.7 | \$71.1 | \$114.7 |
| Other | \$7.9 | \$9.8 | \$17.8 |
| Total Secondary | \$70.2 | \$108.6 | \$178.7 |
| Total Fiscal Impacts (mils 2017 \$) | \$115.9 | \$299.1 | \$415.0 |

Sources: Washington State Employment Security Department, 2017; Washington State Office of Financial Management, 2017; U.S. Bureau of Labor Statistics, 2017; Washington State Department of Revenue, 2017; Port of Seattle, 2017; Community Attributes Inc., 2017.

Exhibit 25. Direct and Secondary State Fiscal Impacts of Sea-Tac International Airport, King County, 2017

| | On-site Airport |
|-------------------------------------|-----------------|
| | Activity |
| Direct (mils 2017 \$) | |
| Sales & Use Taxes | \$10.2 |
| B&O | \$32.8 |
| Other | \$2.7 |
| Total Direct | \$45.7 |
| Secondary (mils 2017 \$) | |
| Sales & Use Taxes | \$11.7 |
| B&O | \$30.3 |
| Other | \$3.6 |
| Total Secondary | \$45.5 |
| Total Fiscal Impacts (mils 2017 \$) | \$91.2 |

Sources: Washington State Employment Security Department, 2017; Washington State Office of Financial Management, 2017; U.S. Bureau of Labor Statistics, 2017; Washington State Department of Revenue, 2017; Port of Seattle, 2017; Community Attributes Inc., 2017.

COMMUNITY IMPACTS

Sea-Tac International Airport provides real benefits to neighboring communities. Airport activity supports local industries allowing for faster and more cost-effective delivery of goods and services to customers and improving cost-effective access to raw inputs necessary for production. Many businesses who rely on access to regional, national, or international markets will make location decisions that consider the availability and proximity to air services.

The economic activity generated by the Airport creates and supports employment in the surrounding communities. In 2017, of the 19,100 employees who worked at the Airport more than 1,700 lived in Seattle, 1,510 lived in Federal Way and 1,430 were residents of Kent (Exhibit 26).

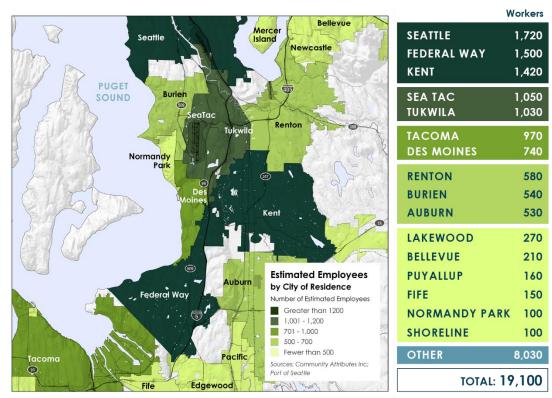


Exhibit 26. Airport Workers by City of Residence, 2017

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

Tukwila has the highest share of airport employment as a percentage of total labor force (9.6%), followed by SeaTac (7.1%) and Des Moines (4.4%) (**Exhibit 27**).

Exhibit 27. Airport Employment and Labor Force by City of Residence, 2017

| City | Estimated Airport | Labor Force | Share of Labor |
|---------------|--------------------------|--------------|----------------|
| City | Employment | (16 years +) | Force |
| Seattle | 1,720 | 418,400 | 0.4% |
| Federal Way | 1,500 | 49,640 | 3.0% |
| Kent | 1,420 | 65,660 | 2.2% |
| SeaTac | 1,050 | 14,850 | 7.1% |
| Tukwila | 1,030 | 10,730 | 9.6% |
| Tacoma | 970 | 106,250 | 0.9% |
| Des Moines | 740 | 16,670 | 4.4% |
| Renton | 580 | 55,630 | 1.0% |
| Burien | 540 | 26,040 | 2.1% |
| Auburn | 530 | 38,200 | 1.4% |
| Lakewood | 270 | 29,020 | 0.9% |
| Bellevue | 210 | 74,660 | 0.3% |
| Puyallup | 160 | 20,770 | 0.8% |
| Fife | 150 | 5,440 | 2.8% |
| Normandy Park | 100 | 3,710 | 2.7% |
| Shoreline | 100 | 30,990 | 0.3% |

Sources: Port of Seattle, 2017; Community Attributes Inc., 2017.

Note: Both Airport Employment and Labor Force are based on where they live rather than the location of employment.

Six cities located around the airport have been selected for more detailed one-page profiles: SeaTac, Burien, Des Moines, Normandy Park, Tukwila, and Federal Way. The profiles on subsequent pages summarize key data and metrics describing the economic impact driven by Sea-Tac within each city. The six selected cities are located near the airport and are home to airport workers, who represented more than 2% of the resident labor force in each of the cities in 2017. The profiles include data points on the economic activity within the city driven by Sea-Tac International Airport, including both local economic and fiscal impacts.

Economic activity driven by the airport is significant within each of these six cities. Sea-Tac International Airport supported more than 26,300 jobs within the City of SeaTac through direct, indirect and induced impacts in 2017. Jobs supported by the airport represented 85% of total employment in the city. The airport supported \$157 million in economic activity in Burien in 2017. Economic activity supported by the airport represented 6% of estimated GDP in the City of Des Moines. Of total jobs in Normandy Park, 18% were supported by Sea-Tac. Economic activity driven by the airport in Tukwila totaled \$483 million in 2017. Federal Way was home to 1,500 airport employees in 2017.

SEATAC

Economic Activity

Driven by Sea-Tac International Airport, 2017





\$1.7 billion
Total Compensation





Economic Activity



34%

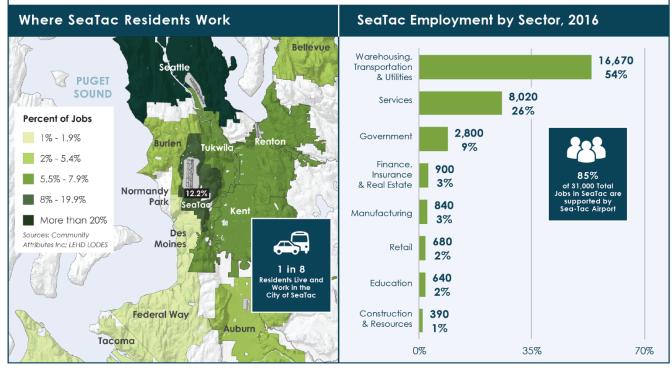
Estimated SeaTac GDP

1,050
Estimated Airport Employees
Live in SeaTac

\$26.8 million

Local Taxes

Located within the City of SeaTac, Seattle-Tacoma International Airport is an economic driver of **private sector growth**. Many airport related businesses are located in SeaTac, including the **corporate headquarters of Alaska Airlines**. More than **5,500 guest rooms** within the City provide a constant stream of visitors that expands the market for local businesses.



BURIEN

Economic Activity

Driven by Sea-Tac International Airport, 2017



\$157 million
Economic Activity

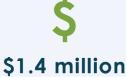




3%
Estimated Burien GDP

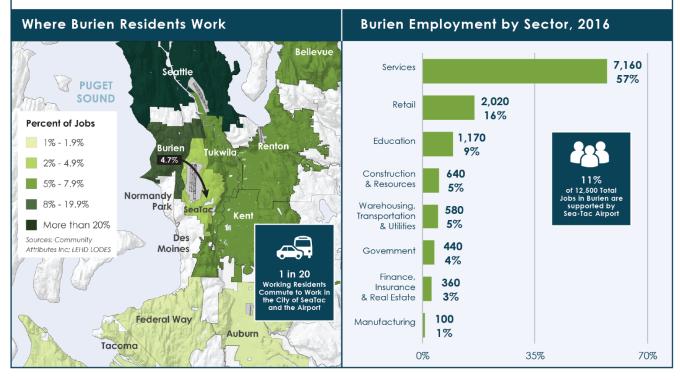


540
Estimated Airport
Employees Live in Burien



Local Taxes

The Port of Seattle is working with the City of Burien to transition Burien's **Northeast Redevelopment Area** from a mixture of vacant, residential, institutional, and small-scale commercial uses to land uses compatible with airport operations. NERA redevelopment projects will result in **450,000 square feet of new development** and more than **600-800 new jobs**.



DES MOINES

Economic Activity

Driven by Sea-Tac International Airport, 2017









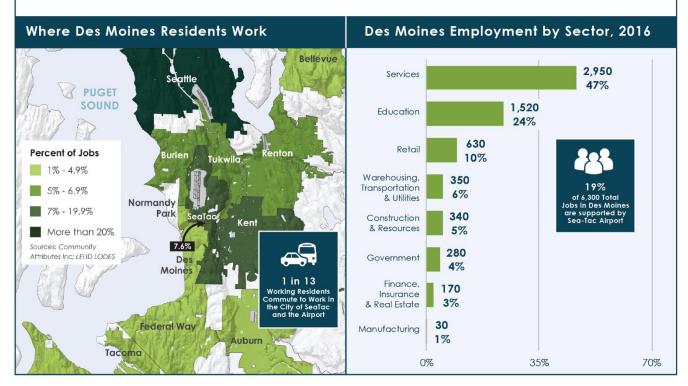
Estimated Des Moines GDP



740Estimated Airport Employees
Live in Des Moines



In Des Moines, the Port is partnering with the City of Des Moines and Panattoni Development to build the **Des Moines Creek Business Park**, resulting in **1.3 million square feet** of airport-related commercial and light industrial space and supporting **3,500 jobs**, diversifying the economic base.



NORMANDY PARK

Economic Activity

Driven by Sea-Tac International Airport, 2017



Jobs in Normandy Park



\$15 million

Economic Activity



\$7 million

Total Compensation



Estimated Normandy
Park GDP



100

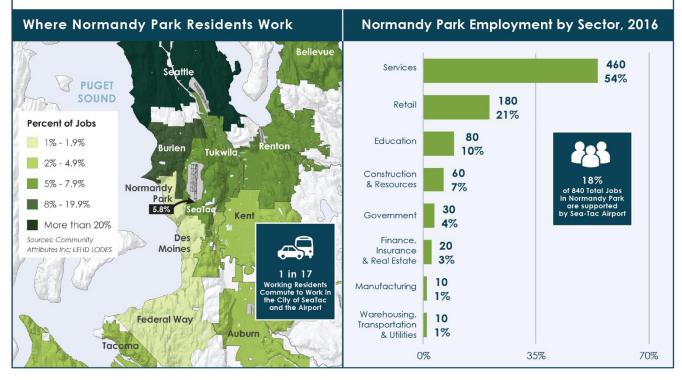
Estimated Airport Employees Live in Normandy Park



\$0.1 million

Local Taxes

As a part of the Port of Seattle's **Economic Development Partnership**, the City of Normandy Park received a **grant for more than \$6,400** in 2017. The City will use this grant to **attract visitors from the airport** by improving their website and improving signage to recreational attractions.



TUKWILA

Economic Activity

Driven by Sea-Tac International Airport, 2017



\$483 million
Economic Activity





2%Estimated Tukwila GDP

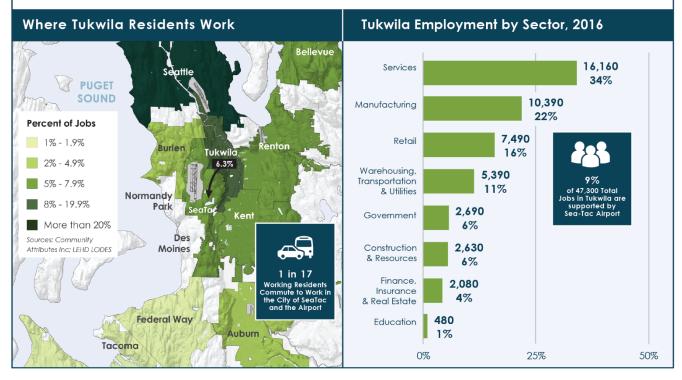


1,030
Estimated Airport Employees
Live in Tukwila



\$4.2 million
Local Taxes

In 2016, the Port of Seattle authorized a new **Economic Development Partnership Program** to support local community economic development activities. In 2017, Tukwila received around **\$20,000** for development of marketing materials to promote **Southcenter and Tukwila International District redevelopment** plans to real estate developers, non-profits, and public agencies.



FEDERAL WAY

Economic Activity

Driven by Sea-Tac International Airport, 2017



Jobs in Federal Way



\$440 million

Economic Activity



\$183 million
Total Compensation



4%

Estimated Federal Way GDP



1,500

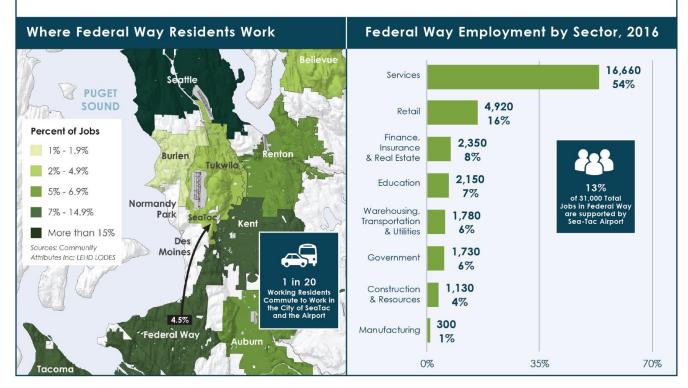
Estimated Airport Employees Live in Federal Way



\$3.5 million

Local Taxes

The services industry accounts for the highest number of jobs in Federal Way, with over **54% of total city employment**. Each of the 5,500 direct jobs in the service sector at Sea-Tac International Airport supports more than 3 jobs statewide.



SUMMARY AND CONCLUSIONS

Sea-Tac International Airport is a significant driver for the Washington state, King County, and local economies. On-site activities at the airport directly supported 19,100 jobs, \$1.4 billion in total compensation, and \$5.6 billion in economic activity in 2017.

These on-site activities at the airport connect Washington's businesses to their customers, partners, vendors, and talent throughout the globe. Washington's export industries in particular rely on access to their global markets. In 2016, nearly 84 thousand metric tons of exports were shipped through Sea-Tac.

The airport is also a vital connection for visitors to the state. An estimated 8.2 million visitors traveled to Washington through Sea-Tac. Spending by these visitors directly supported 68,200 jobs, \$2.2 billion in total compensation, and \$5.9 billion in economic activity.

Sea-Tac is also a driver for surrounding communities. More than 1,000 airport employees live in each Federal Way, Kent, SeaTac, and Tukwila. Sea-Tac International Airport supported 26,300 jobs in the City of SeaTac and over \$6 billion in economic activity in 2017. In Tukwila the airport supported 4,200 jobs and \$483 million in economic activity. Economic activity supported by the airport in 2017 represented 6% of estimated GDP in Des Moines, 5% in Normandy Park and 4% in Federal Way.

Sea-Tac International Airport is the gateway to Washington and the Puget Sound, and is often the first point of contact that many visitors have with the region. In order to continue to improve traveler experience and meet the growing demand for air travel, the Port of Seattle is making significant capital investments at the airport. The Port of Seattle is forecasted to spend \$3.2 billion on capital improvements at the airport between 2017 and 2022, including investments in the International Arrivals Facility and the North Satellite Modernization.

Overall, Sea-Tac supported \$22.5 billion in economic activity in 2017, 151,400 jobs, and \$7.1 billion in total compensation directly and through multiplier effects.