SEA-TAC AIR CARGO

February 23, 2016



SEA Air Cargo overview



SEA is the #1 cargo airport in the Pacific Northwest

Sea-Tac Airport ranking for cargo tonnage

- Ranked #19 in the United States by ACI for 2014
- #1 in the Pacific Northwest
- #3 on the West Coast (just international freight)

\$13.6 billion in international commodity trade (51.2% exports)

Ranked #15 by US Dept of Commerce airport international trade statistics

• Air cargo activity at Sea-Tac provides the region a \$22.7 billion economic value*

- 119,685 related jobs
- \$5.5 billion in wages & salaries
- \$520.7 million in state & local taxes

^{*}source: Martin Associates, 2013 Economic Impact of the Port of Seattle

SEA Air Cargo: International service



Diverse international air trade network supported growth in 2015



Value and tonnage of important trade partners and commodities mostly increased in 2015 vs. 2014

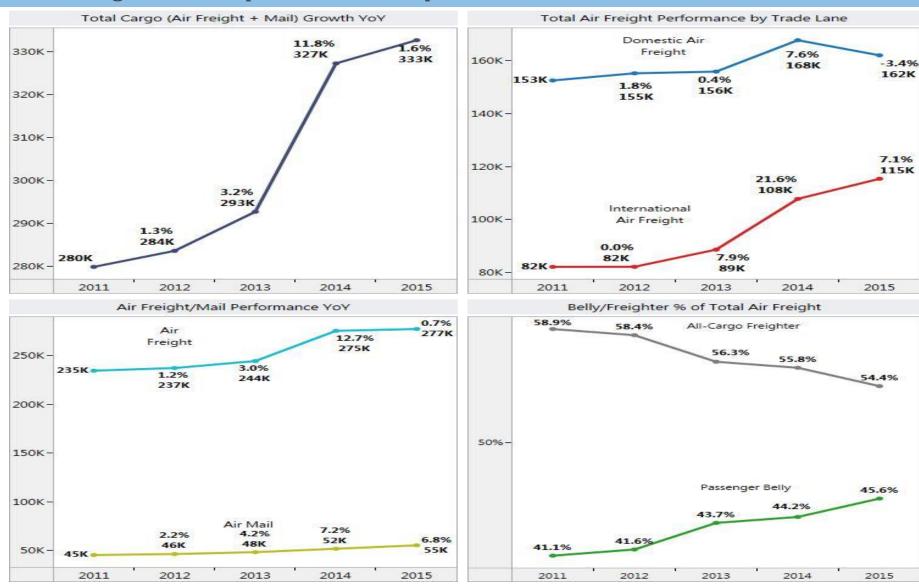
Top Countries for Air Trade					
By Dollar Value			By Metric Tons		
China	\$2.8B	+48.0%	China	29,292	+15.5%
United Kingdom	\$1.7B	-20.1%	Japan	13,295	+17.1%
Japan	\$1.5B	+11.3%	Korea, Republic of	10,572	+24.2%
Top Air Trade Commodities					
By Dollar Value			By Metric Tons		
Electrical Machinery	\$4.3B	+54.5%	Industrial Machinery	21,814	+9.8%
Industrial Machinery	\$3.9B	+4.5%	Electrical Machinery	17,588	-2.3%
Aerospace Parts/Equipment	\$1.8B	+12.7%	Fruit (Cherries)	14,991	-5.4%

Source: Wiser LLC

Historical trends: 2015 in review



Total cargo in 2015 up 1.6% over exceptional 2014



Air Cargo: Capital Projects



Recent hardstand projects provided critical near-term capacity

Freighter activity

- Five major airlines provide scheduled freighter service at Sea-Tac
 - Asiana, Cargolux, China Airlines, FedEx, and Korean Air
- Four new airlines conducted seasonal charter service in 2015
 - Atlas Air, China Cargo Airlines, Kalitta Air and Nippon Cargo Airlines
- In 2015 the Airport saw 10.2% more calls by the largest type of freighters (*Boeing 747s & Antonov 124s*), surpassing 1000 operations for the first time.

Cargo 2 and Cargo 6 Freighter parking ramp expansion projects

- Purpose: to extend hardstand to better accommodate increasing size and frequency of the largest freighter operations
- Construction approved by Commission in 2013
- Project Cost: \$23.1 million
- Status: Completed in 2015

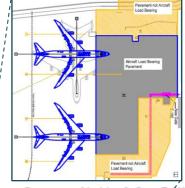
Air Cargo: Capital Projects



Hardstand projects accommodate 747-8 nose load operations

Cargo 2 Hardstand Expansion project

- Demolished cargo warehouse
- Expanded hardstand to accommodate 2 Group VI freighters
- Added ground power





The Conc. Park The Conc. Park

Cargo 6 Improvements project

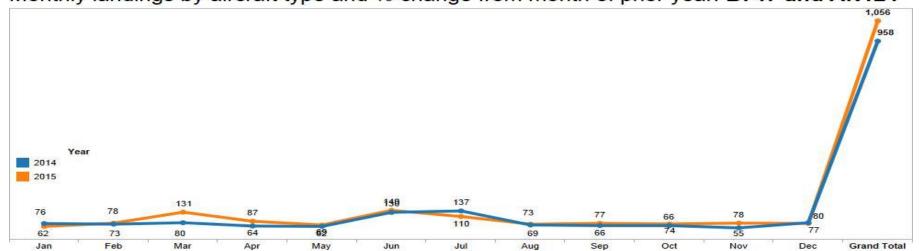
- Expanded hardstand to accommodate 2 Group VI simultaneous nose load operations
- Added ground power
- Added fuel hydrant pits

Capital projects: All-cargo Freighter Activity

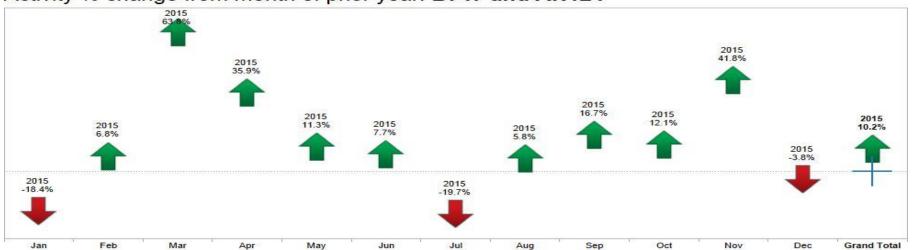


Aircraft Activity-Large freighter aircraft activity growth continued in 2015

Monthly landings by aircraft type and % change from month of prior year: B747 and AN124



Activity % change from month of prior year: B747 and AN124



Air Cargo: Existing Facilities



Warehouse locations spread across the airport



Cargo warehouse facilities

- 12 total on-airport cargo warehouses interspersed throughout ramp area
- Primarily serve as "pass-through" facilities
- Some accommodate "truck-to-truck" operations, ground service equipment maintenance and a variety of other functions
- Former United Airlines cargo building under evaluation for alternative use

Cargo hardstand facilities

- Recent hardstand projects provided capacity to meet near-term demand
- Passenger aircraft frequently remain over night on cargo hardstands

Air Cargo: SAMP Goals



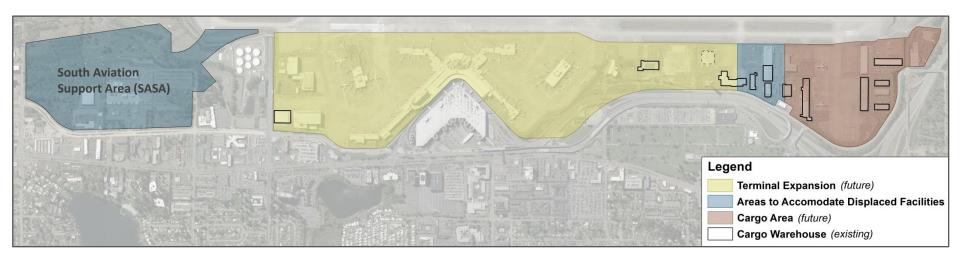
Air cargo objectives moving forward

- Maximize future warehouse utilization through more efficient layout of facilities with adequate and balanced capacity
 - Hardstand for aircraft parking in close proximity to airside of cargo warehouses
 - Cargo staging/loading areas on the airside of warehouses
 - Truck staging, maneuvering, and dock stations on landside of warehouses
 - Sufficient warehouse depth to facilitate cargo pass through operations and potentially accommodate mechanical infrastructure
- Reserve adequate space to ensure flexibility for future cargo projects
- Maintain sufficient cargo warehouse and hardstand capacity throughout phased implementation of SAMP capital program

Air Cargo: SAMP Challenges



Primary challenge - Phasing to meet on-going and long-term demand



- Maintain sufficient cargo warehouse and hardstand capacity
 - Terminal expansion impacts cargo facilities
 - Redevelopment of north cargo area impacts existing cargo facilities
 - Need slack capacity prior to redevelopment
 - Long lead time for South Aviation Support Area site preparation
- Facilitate tenant relocations throughout phased redevelopment
- Facilitate trade and business growth to meet regional economic demand