



## New York Kennedy Hub

One of our hubs for AmeriCay is New York's John F. Kennedy International Airport, simply known as Kennedy (KFJK). Kennedy International is located in Queens in southeastern New York City. It is the busiest international air passenger gateway to the United States. JFK was originally known as Idlewild Airport after the Idlewild Golf Course that it displaced. The airport was renamed on December 24, 1963, one month after the assassination of the 35<sup>th</sup> President of the United States.

Nearly 100 airlines from over 50 countries operate regularly scheduled flights from JFK. JFK is also the nation's busiest international air freight gateway. The airport has nearly 25 miles of taxiways to efficiently move aircraft about the grounds. JFK provides 30.1 billion in economic activity and employs 35,000 people at the airport. From this substantial facility AmeriCay is reaching out to provide its passenger with efficient jet service to many destinations which we shall review here:

## Boston Logan (KBOS)

General Edward Lawrence Logan International Airport is in East Boston. It is one of the busiest airports in the world with over 26 million passengers a year; however, does not serve as a primary hub for any full service airline. The airport is built largely on landfill in Boston Harbor incorporating the former Governor's, Noddle's and Apple Islands. As a consequence, the airport is almost entirely surrounded by water.

## Washington Dulles (KIAD)

Washington Dulles International Airport is located 25 miles west of the central business district of Washington D.C. in Dulles, Virginia. The name "Dulles" come from John Foster Dulles, United States Secretary of State under Dwight D. Eisenhower. Dulles is served by nearly a dozen U.S.-flagged carriers and nearly two dozen international carriers. On a typical day, Dulles serves 1,000 to 1,200 flight operations. The airport is home to the German Luftwaffe, who have a training facility at the airport. In December 2003, the Smithsonian National Air and Space Museum opened the Steven F. Udvar-Hazy Center. The center contains an Air France Concorde, the Enola Gay B-29, the Space Shuttle Enterprise and the prototype of the Boeing 707.



## Buffalo Niagara (KBUF)

Buffalo Niagara International Airport is located in Cheektowaga, in Erie County New York. The airport serves the Buffalo, New York as well as Southern, Ontario, Canada. In fact, 1 of every 3 people utilizing the airport is from Canada. The airport was built in 1926, making it one of the oldest public airports in the country. In 2004, the airport hosted Air Force One, which was the first 747 to land in Buffalo.

## Chicago O'hare (KORD)

O'hare is a major airport located in the northwest-most corner of Chicago, Illinois just 17 miles from the Chicago Loop, (downtown Chicago). It serves as a hub for both United and American Airlines. Orchard Place was a small pre-existing community in the area and the airport was known during World War II as *Orchard Place Airport/Douglas Field*, hence the identifier *ORD*. In 1949 the airport was renamed after Lieutenant Commander Edward "Butch" O'Hare, a World War II flying ace, who was awarded the Medal of Honor.

After the 1962 expansion, O'hare took over as the new World's Busiest Airport serving 70 million passengers a year. O'hare held this title until in the past few years when it was eclipsed by Atlanta's Hartsfield in terms of aircraft operations daily. O'hare is currently undergoing a runway expansion, and with this, is expected to once again regain its status as World's Busiest Airport.

## Charlotte/Douglas (KCLT)

Charlotte/Douglas International Airport is a joint civil-military public international airport located in Charlotte, North Carolina. This is currently the 11<sup>th</sup> busiest airport in the US. Through a series of expansions and airline deregulation, this airport has continued to grow throughout the years. In fact, in 2007, Charlotte was the fastest growing airport in the U.S. and among the 30 busiest in the world. The airport's location in the center of the U.S. Eastern Seaboard positions it nicely for commuter operations along the eastcoast.



## Hartsfield-Jackson Atlanta (KATL)

Hartsfield-Jackson Atlanta International Airport is 7 miles south of Atlanta. It has been the world's busiest airport by passenger traffic and number of landings and take-offs since 1999, serving 88 million passengers annually and 970,235 flights. The Delta Airlines hub at Atlanta is the world's largest. Delta flew 55.96% of passengers in 2009. With 5 runways in parallel Atlanta Hartsfield is one of only a few airports that can perform triple simultaneous landings. At capacity, Hartsfield is capable of handling 237 flights per hour.

The new control tower is the tallest airport control tower in the United States, with a height of over 398 feet. In April 2007, an "end-around taxiway" opened, called Taxiway Victor. It is expected to save an estimated \$26 million to \$30 million in fuel by allowing airplanes landing on the northernmost runway to taxi to the gate area without preventing other aircraft from taking off. The taxiway drops approximately 30 feet (9.1 m) from the runway elevation to allow takeoffs to continue. She is modern and waiting for you.

## Miami (KMIA)

Miami International Airport is the primary airport serving the South Florida area. The airport is located eight miles northwest of Downtown Miami. Miami airport is the largest gateway between the United States and Latin America. In 2009, the airport ranked first in the United States by percentage of international flights and second in passenger volume, behind only New York-JFK.

The airport is one of the largest in terms of cargo in the United States, and is the main connecting point for cargo between Latin America and the world. Today, Miami is American's largest air freight hub, and forms the main connecting point in the airline's north-south oriented international route network.

## Raleigh-Durham (KRDU)

Raleigh-Durham International Airport is located 9 miles northeast of Morrisville, North Carolina. The airport covers 4,929 acres (1,995 ha) and operates three runways, providing direct service to 35 domestic and international destinations on 340 daily flights. The Raleigh-Durham airport opened for commercial service on May 1, 1943 inaugurated with flights by Eastern Airlines.



## Toronto Pearson (CYYZ)

Toronto Pearson International Airport, also known as Lester B. Pearson International or simply Toronto Pearson is a major international airport serving Toronto, Ontario, Canada. It is named after the 14<sup>th</sup> Prime Minister of Canada. It is situated 17 miles northwest of Downtown Toronto in the city of Mississauga. Pearson is the largest and busiest airport in Canada, in 2009 it handled 30.4 million passengers. Pearson is the primary hub for Air Canada.

After the September 11 attacks, Toronto Pearson was part of Operation Yellow Ribbon, as it received 19 of the diverted flights that were coming into the United States. The first landing of an A380 in Toronto was on June 1, 2009, operated by Emirates. This aircraft still operates at Toronto several times a week.

## Luis Muñoz Marín (TJSJ)

Luis Muñoz Marín International Airport is a joint civil-military airport located 2 miles southeast of San Juan, Puerto Rico. Luis Muñoz Marín International Airport is the island's main international gateway and its main connection to the United States. Domestic flights fly between Carolina and other local destinations.

As of 2008, the airport has been receiving major upgrades, including a new terminal (Terminal A), pavement and apron expansions, new light systems, press conference rooms, and new fast food franchises along its corridors. Over \$400 million are being used to expand the airport facilities through 2011. The new Terminal A opening remains uncertain. This airport has a couple ILS approaches including a very fun visual approach called the Lagoon Approach and is fun to fly.

## Cancun (MMUN)

Cancun International Airport in Cancun on the Caribbean coast of Mexico's Yucatan Peninsula. It is Mexico's second busiest airport. The airport has been expanding as it has become one of the most important international airports in the country. It has two operative runways that are 1,500m apart which allows them to be used simultaneously, and three commercial terminals.



## Nassau (MYNN)

Lynden Pindling International Airport, *formerly known as Nassau International Airport*, is the largest airport in The Bahamas. It is located towards the west of New Providence island near the capital city of Nassau. Due to the large amount of flights to the US, the airport contains U.S. Border preclearance facilities allowing all US flights to operate as domestic flights upon arrival at their destination.

The name was officially changed to honor The Right Honourable Sir Lynden Oscar Pindling, first Prime Minister of The Commonwealth of the Bahamas as he was affectionately hailed as the Father of the Nation. Currently, the airport has 2 runways, more than 30 gates and 482,000 square feet of terminal space. With more than 3 million passengers and 92,000 takeoffs and landings in 2008, the airport has reached its capacity and its facilities are outdated and insufficient. In 2006, Nassau Airport Development Company (NAD) entered a 10-year management agreement with YVR Airport Services Ltd. (YVRAS) to manage, operate and redevelop the airport.

## Princess Juliana (TNCM)

Princess Juliana International Airport serves the Dutch part of the island of Saint Martin. The airport is named after Juliana of the Netherlands, who as crown princess landed here in 1944. There is also an airport on the French side of the island near Marigot, called Aeroport de Grand Case or L'Esperance Airport. Because the approach is over water pilots can be disoriented regarding perceived altitude when operating under visual flight rules.

Normal instrument checks coupled with experience and awareness mitigate the potential problem. In fact, the departure presents more "difficulties" than the approach, with a turn required to avoid mountains in the departure path. Incoming airplanes approach the island on short final for Runway 10 flying low over the famous Maho Beach. At any other airport aircraft fly at the same altitude at that point in the approach. Pictures of low flying aircraft were published in several news magazines worldwide in early 2000 and looked so unreal that some were even disputed as fakes. The thrilling approaches and ease of access for shooting spectacular images made the airport one of the world's favorite places among planespotters. To meet changing international and local regulations a 150 meter safety extension was required.



## Las Vegas McCarran (KLAS)

McCarran International Airport is located 5 miles south of the central business district of Las Vegas. McCarran Airport has more than 1,234 slot machines throughout the airport terminals. Maximum capacity for the airport is estimated at 53 million passengers and 625,000 aircraft movements. As McCarran is predicted to reach this capacity around 2017.

On October 16, 2003, the airport installed SpeedCheck kiosks which allow customers to obtain a boarding pass without having to go to a specific airline kiosk or counter. McCarran was the first airport in the US to provide this service and the first in the world to provide the service to all airlines from a single kiosk. At the same time, 6 kiosks were activated at the Las Vegas Convention Center allowing convention attendees to get boarding passes on their way to the airport.

## Los Angeles (KLAX)

Los Angeles International Airport is the primary airport serving Los Angeles California, the second-most populated metropolitan area of the United States. LAX is the busiest airport in California in terms of flight operations. The airport occupies some 3,500 acres (5 sq mi; 14 km) of the city on the Pacific coast, about 15 mi (24 km) southwest of downtown Los Angeles. The distinctive white "Theme Building", designed by Pereira & Luckman architect Paul Williams and constructed in 1961, resembles a flying saucer that has landed on its four legs.

A restaurant that provides a sweeping view of the airport is suspended beneath two intersecting arches that form the legs. The Los Angeles City Council designated the building a cultural and historical monument in 1992. A \$4 million renovation, with retro-futuristic interior and electric lighting designed by Walt Disney Imagineering, Before the 1930s, existing airports used a two-letter abbreviation based on the weather station at the airports.

So, at that time, LA served as the designation for Los Angeles International Airport. But, with the rapid growth in the aviation industry, the designations expanded to three letters, and LA became LAX. The letter X does not otherwise have any specific meaning in this identifier.



## Seattle-Tacoma (KSEA)

Seattle-Tacoma International Airport, also known as Sea-Tac Airport or Sea Tac. It serves Seattle and Tacoma as well as the rest of western Washington. The Sea-Tac airport has three parallel runways that run nearly north-south, with a passenger terminal to the east. The runways range in length from about 8,500 ft to 12,000 ft. During 2008, the airport averaged 946 aircraft operations per day, 89% of which were commercial flights, 10% of which were air taxi operations, and 1% of which were transient general aviation.

A recurring operational problem at Sea-Tac is misidentification of the westernmost taxiway, Taxiway Tango, as a landing surface. A large "X" has been placed at the north end of the taxiway to prevent confusion, but a number of incidents of aircraft landing on the taxiway have still occurred. The FAA has issued an alert notice dated from 27th August 2009 to September 24th, 2009 urging airplanes about taking precautions such as REILs and other visual cues while landing from the north.

## San Francisco (KSFO)

San Francisco International Airport is a major international airport located 13 miles south of downtown. It is the sole maintenance hub of United Airlines. The FAA has issued a warning that the airport's control tower would be unable to withstand a major earthquake and has requested that it be replaced. Construction on the new 216 ft (66 m), US\$81 million tower, which will be located between terminals 1 and 2, is planned to begin within two years with completion by 2014.

On July 14, 2008 SFO was voted Best International Airport in North America for 2008 in the World Airports Survey by Skytrax. The following year on June 9, Skytrax announced SFO as the second Best International Airport in North America in the 2009 World Airports Survey, losing to Dallas Fort Worth International Airport. SFO was one of the first airports to implement a Fly Quiet Program which grades individual air carriers on their performance on noise abatement procedures while flying in and out of SFO.



## Vancouver (CYVR)

Vancouver International Airport is located on Sea Island in British Columbia, Canada. The airport won the Skytrax award for Best North American Airport in 2010. Due to its proximity to Asia in relation to the rest of Canada, YVR is a gateway between Canada and Asia.

On March 1, 2010 the day after the conclusion of the 2010 Winter Olympics, YVR was expected to set a record for daily traffic, with an estimated 39,000 departing passengers, in addition to the 2009 daily average of 22,000 arrivals. Several major airlines are currently negotiating for landing rights at YVR with the Canadian Ministry of Transport. If given these rights, YVR stands to become an even more important North American gateway to all continents.

## Phoenix (KPHX)

Phoenix Sky Harbor International Airport is the largest and busiest airport in Arizona. Sky Harbor has been operating under its current name since prior to 1935, when it was purchased by the city of Phoenix. Because of Phoenix's consistent wind patterns, Sky Harbor is one of the largest airports in the world to have all runways running parallel (in the east-west direction). Sky Harbor's private airplane area also serves as one of eight service centers for the Medevac airline Air Evac.

## Houston (KIAH)

George Bush Intercontinental Airport serves Greater Houston. Bush Intercontinental is Texas's second-largest air facility after Dallas/Fort Worth. The airport currently ranks third in the United States for non-stop domestic and international service with 182 destinations.

On January 7, 2009, a Continental Airlines Boeing 737-800 departing Bush Intercontinental was the first U.S. commercial jet to fly on a mix of conventional jet fuel and biofuel. In 2006, the United States Department of Transportation named George Bush Intercontinental Airport the fastest growing of the top ten airports in the United States



## Denver (KDEN)

Denver International Airport is, by land size at 53 square miles, the largest international airport in the United States and the third largest in the world. Runway 16R/34L is the longest public use runway in the United States at 16,000ft in length. The airport's distinctive white tensile fiberglass roof is aesthetically designed to be reminiscent of the snow-capped Rocky Mountains in winter. The catenary steel cable system, similar to the Brooklyn Bridge design, supports the roof. DIA is also known for a pedestrian bridge connecting the terminal to Concourse A that allows travelers to view planes taxiing directly underneath and provides sweeping views of the Rocky Mountains to the West and the high plains to the East.

The airport is 25 miles (40 km) from downtown Denver, which is 19 miles (31 km) farther away than Stapleton International Airport, the airport it replaced. The distant location was chosen to avoid noise impacts to developed areas, to accommodate a generous runway layout that would not be compromised by winter storms, and to allow for future expansion. The 33,457 acres (52.277 sq mi; 135.40 km<sup>2</sup>) of land occupied by the airport is nearly twice the land area of Manhattan. Between February and August 2008, construction of an on-site, two-megawatt solar energy system took place. The system generates the equivalent of half the energy needs of the underground trains that move people between concourses.

## Honolulu (PHNL)

Honolulu is the principal aviation gateway of the City and County of Honolulu and the State of Hawaii and is identified as one of the busiest airports in the United States, with traffic now exceeding 21 million passengers a year and rising. The airport has four major runways, which it shares with the neighbouring Hickam Air Force Base. The principal runway designated 8R/26L, also known as the Reef Runway, was the world's first major runway constructed entirely offshore.

Completed in 1977, the Reef Runway is a designated alternate landing site for the National Aeronautics and Space Administration space shuttle program in association with Hickam Air Force Base, which shares Honolulu International Airport's airfield operations. Traffic between Honolulu and the US mainland is dominated by flights to and from Los Angeles and San Francisco. These two cities, plus Vancouver and Seattle, account for more than half of all flights between the mainland and Honolulu.



## Miami (KMIA)

Miami International Airport is the primary airport serving the South Florida area. The airport is located eight miles northwest of Downtown Miami. Miami airport is the largest gateway between the United States and Latin America. In 2009, the airport ranked first in the United States by percentage of international flights and second in passenger volume, behind only New York-JFK.

The airport is one of the largest in terms of cargo in the United States, and is the main connecting point for cargo between Latin America and the world. Today, Miami is American's largest air freight hub, and forms the main connecting point in the airline's north-south oriented international route network.

## Chicago O'hare (KORD)

O'hare is a major airport located in the northwest-most corner of Chicago, Illinois just 17 miles from the Chicago Loop, (downtown Chicago). It serves as a hub for both United and American Airlines. Orchard Place was a small pre-existing community in the area and the airport was known during World War II as *Orchard Place Airport/Douglas Field*, hence the identifier *ORD*.

In 1949 the airport was renamed after Lieutenant Commander Edward "Butch" O'Hare, a World War II flying ace, who was awarded the Medal of Honor. After the 1962 expansion, O'hare took over as the new World's Busiest Airport serving 70 million passengers a year. O'hare held this title until in the past few years when it was eclipsed by Atlanta's Hartsfield in terms of aircraft operations daily. O'hare is currently undergoing a runway expansion, and with this, is expected to once again regain its status as World's Busiest Airport.