

Air Traffic Analysis

FOR THE PERIOD OF CHRISTMAS AND NEW YEAR 2017 - 2018



Introduction

This analysis is performed in order to obtain an assessment of the traffic at Beirut International Airport, during the period of Christmas and New Year.

The analysis was performed according to the standards and recommendation provided by ICAO documents.

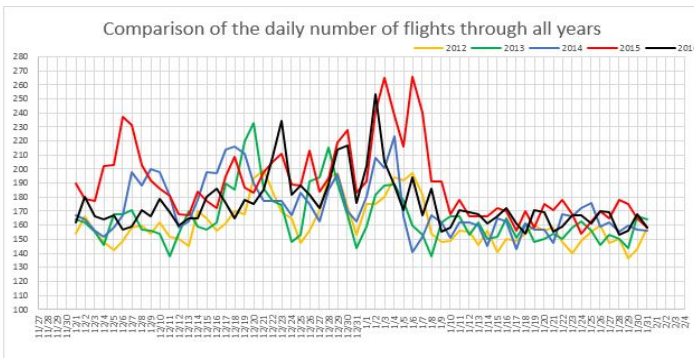
Purpose

The purpose of this analysis is to grasp an idea about how the traffic will increase during the period of Christmas and New Year, and it should be mentioned that this analysis is based on theoretical studies based on the moving average methods.

Time Period

Data was extracted accordingly:

- December 2012 - January 2013.
- December 2013 - January 2014.
- December 2014 - January 2015.
- December 2015 - January 2016.



ANALYSIS PERFORMED

Using the data of each year, and obtaining the average before and after the period concerned, and extracting the maximum and minimums of the daily number of flights, an estimation of the percentage of increase for year 2017 - 2018 was obtained.

Year	From	To	Number of days	Total number of flights	Increase before Christmas and New year	Increase from year to year	Average Increase during Christmas and New year
2012 - 2013	1-Dec-12	19-Dec-12	18	158	13.3%	+ 1.7 %	12.3 %
	20-Dec-12	7-Jan-13	18	179			
	8-Jan-13	31-Jan-13	23	151			
2013 - 2014	1-Dec-13	16-Dec-13	15	159	14.5%	+ 3.8 %	
	17-Dec-13	6-Jan-14	20	182			
	7-Jan-14	31-Jan-14	24	156			
2014 - 2015	1-Dec-14	15-Dec-14	14	176	7.4%	+ 12.7 %	
	16-Dec-14	4-Jan-15	19	189			
	5-Jan-15	31-Jan-15	26	159			
2015 - 2016	1-Dec-15	19-Dec-15	18	192	10.9%	- 7.5 %	
	20-Dec-15	8-Jan-16	19	213			
	9-Jan-16	31-Jan-16	22	169			
2016 - 2017	1-Dec-16	21-Dec-16	20	171	15.2%		
	22-Dec-16	8-Jan-17	17	197			
	9-Jan-17	31-Jan-17	22	164			

Results

The total number of daily flights departing and landing at Beirut International Airport ranges between 160 and 170 flights per day.

The number of flights exceeded the previous averages in year 2015, to reach 192 flights per day, due to the coincidence of the 40th memorial of Imam Hussein, a few days before Christmas.

The percentage of increase in the total daily number of flights during the period analyzed ranges between 7% and 15%, while the percentage of increase of the yearly number of flights is 2%.

THE MAXIMUM NUMBER OF FLIGHTS REACHED 253 AIRCRAFTS PER DAY BY YEAR 2016 - 2017

Estimations

The expected increase will start by Saturday, December 16, 2017, and the number of flights will start decreasing by Monday, January 8, 2018.

The average daily number of flights during month 11 and 12 of year 2017 is 178 flights per day, and will rise, based on a percentage of 12.3%, to 200 flights per day.

The daily number of flights will fluctuate between 228 flights per day (28% increase) and 144 flights per day (21% decrease)

