Manchester Airport
Departure Routes
Information Pack

SOUTH EASTERLY DEPARTURES IN WESTERLY OPERATIONS (ROUTES LISTO2R AND LISTO2Y)

Flying over: Mobberley / East Knutsford / Ollerton / Chelford / Swettenham

This document explains how we operate now and provides some information about the number of aircraft and passengers currently flying from Manchester Airport.
Manchester Airport Departure Routes Information Pack – 2017 data

ABOUT YOUR AIRPORT

Manchester Airport officially opened on 25 June 1938 and is today owned by the 10 Councils of Greater Manchester and Industry Funds Management (IFM), with four airports in the group.

1939 saw 7600 passengers per year... today it's grown to 28M passengers per year.

2017 Manchester Airport joined the list of top 20 European airports.

The Airport supports the employment of 45000 jobs in the region with 24500 people directly employed on our site.

Supporting over 8000 children in education every year. Manchester Airport teacher resources for key stages 1,2 and 3 are available at www.magworld.com/education.

Manchester Airport – the largest outside the South East – delivers £1.7bn in the North West economy.

FLYING TO 210 DESTINATIONS

in 60 countries including China, USA, the Middle East and Europe.

The wind direction may change several times in a day, so flights will vary from westerly to easterly operations.

85% of departures were westerly operations in 2017.

2010 - 2017 DEPARTURES INFORMATION

PERCENTAGE OF DEPARTURES

YEAR RUNWAY DIRECTION WESTERLY OPERATIONS EASTERLY OPERATIONS TOTAL

2010 100 0 100
2011 100 0 100
2012 100 0 100
2013 100 0 100
2014 100 0 100
2015 100 0 100
2016 100 0 100
2017 85 15 100

Manchester Airport

East Midlands Airport

London Stansted Airport

MAG

6411 volunteer hours in the community in 2016/2017.

Our Airport Academy helped 469 people into work on our site.

Community Trust Fund supporting community groups with over £3million in grants since 1997.
HOW WE OPERATE

USE OF RUNWAYS

Manchester Airport has two runways. We use both runways during the daytime, but planning permission does not allow us to use Runway 2 between 10pm and 6am, unless we are doing maintenance on Runway 1.

As the number of flights has increased, we need to extend the times during which we use both runways. This will happen gradually from April until 9 July 2018. The changes will reduce delays and increase efficiency. For more information about this see our web page at www.manchesterairport.co.uk/dualrunwayuse.

We have a Night Noise Policy which means that we do operate at night, but flights are restricted. You can read more about our Night Noise Policy at www.manchesterairport.co.uk/nightnoise.

RUNWAY DIRECTION

For safety reasons, aircraft must land and take off into the wind. At Manchester Airport the wind usually blows from the West, meaning aircraft approach from the East (over Stockport and Heald Green) and take off to the West (towards Knutsford). This is known as ‘westerly operations’.

Sometimes the wind direction changes and moves to the East. In this case, aircraft approach from the West (over Knutsford) and take off to the East (over Heald Green and Stockport). This is known as ‘easterly operations’.

On average, between 70% and 80% of our departures each year will be westerly operations. In 2017, 85% of flights were westerly operations and 15% of flights were easterly operations.

<table>
<thead>
<tr>
<th>DAYS</th>
<th>TIMES WHEN TWO RUNWAYS USED</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUMMER SEASON</td>
<td>2 April to 9 July 2018 From 9 July 2018</td>
</tr>
<tr>
<td>MONDAY TO FRIDAY</td>
<td>6.30am to 10.30am and 1pm to 8pm 6am to 9pm</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>6.30am to 10.30am and 1pm to 4pm 6am to 4pm</td>
</tr>
<tr>
<td>SUNDAY</td>
<td>1pm to 5pm 6am to 9.30am and 1pm to 9pm</td>
</tr>
</tbody>
</table>

The wind direction may change several times in a day, so we may change our direction of operations to reflect this. The table above shows the percentage of movements in each direction over the last eight years.
Above, we have highlighted the number of days each month, over several years, where westerly departures routes were used.

Our information is based on the most recent complete year, which was 2017, and our busiest month in that year (August), compared to our quietest month (February).

The maximum number of departures on a single day in August was 23, compared to a maximum in February of 21.

Runway use depends on the wind direction, with westerly departures on LISTO2R or LISTO2Y routes for 29 days during August.

The diagram above you can see the two distinct runways at Town Lane. The distance between the two departure routes increases as you move further along the routes.

Runway 2 ends one mile further to the West than Runway 1, and 325 yards further South. In the diagram above you can see the two distinct runway departure routes close to the ends of the runways of Town Lane. The distance between the two departure routes increases as you move further along the routes.

In 2017, August was our busiest month of westerly operations on the LIST02R and LIST02Y route, when there were 488 departures.

While February was our quietest month, with 235 departures.

The accuracy with which an aircraft navigates depends on the following:

- The size of the aircraft
- Weather conditions
- How the pilot interprets instructions
- Navigation aids
- Takeoff or landing runway
- Time of day

Aircraft using the LIST02R and LIST02Y routes range from small 10-seat aircraft up to the larger 450-seat aircraft. The common use is the 700-2 to 250-seat aircraft, which accounts for 61% of all flights.

It is likely there will be changes in the future due to a national policy, led by the CAA, to reorganise airspace for improved efficiency and maintaining safety:

- Satellite navigation replacing navigational aids on the ground, enabling aircraft to fly more accurately following a designated route
- Improved technology on board new aircraft, offering the opportunity for greater efficiency and reduced noise emissions

Guidance on how airports should manage change was issued by the CAA in December 2017, in a document called Airport Design CAP1616. This is available on the CAA website.
MEASURING NOISE

Generally, the closer that you live to an airport and a departure or arrival route, the more noise you will hear.

‘Noise contours’ give an indication of general noise levels and show an average noise reading over a set period of time. They use actual information on the position, number, heights and noise levels of arrivals and departures to and from Manchester. Noise contours look like a series of concentric rings, like in a tree trunk. The closer the rings are to the airport, the louder the noise is. This is represented by a number. Current Government guidelines recommend noise insulation such as high performance glazing or loft insulation at 63 decibels. If you live in this area, you can apply for help with this noise insulation such as high performance glazing or loft insulation at 63 decibels. If you live in this area, you can apply for help with this noise insulation at www.manchesterairport.co.uk/soundinsulation.

Noise contours are common for measuring noise around other transport routes such as roads and railways.

WANT TO KNOW MORE?

There is a booklet like this one for each of our departure and arrival routes. Extra information is already available on our website in a range of formats including films and downloadable information sheets. You can see them at www.manchesterairport.co.uk/runwaydatasheet.

If Manchester Airport consults about changes to airspace in the future it will be widely publicised. However if you would like to be on a mailing list to ensure that you receive information directly please email to community.relations@manairport.co.uk

If you would like to talk to us you could:
– phone our Freephone number (08000 967967);
– send an email to community.relations@manairport.co.uk;
– come to an outreach session (details are on our website at www.manchesterairport.co.uk/outreach).

You can watch aircraft movements and look at heights and positions over the ground using webtrak, which is on our website at www.manchesterairport.co.uk/webtrak.