

NORTH YORK MOORS NATIONAL PARK AUTHORITY

Miles saved by the Moorsbus Network in 2005

Method

From annual survey work undertaken with passengers, it is possible to identify those who had access to a car and chose to travel on the Moorsbus Network rather than use their car.

Postcode data of these passengers is used to estimate the miles of journey saved.

The figure is then divided by the average car occupancy (1.7*) as it is probable that this would reflect the car sharing which would be undertaken.

(* 1.7 people per car is the standard DfT/Highways Economic Note figure for recreational journeys.)

Assumptions (based on 2005 survey data)

Passengers with access to a car on the survey day:

31% (= 15,386 passengers in 2005)

1. Passengers travelling from within or adjacent to National Park: 7,078 (46%)
Distances travelled (within Park): assume journey distance of 75 miles (based on typical journey pattern within National Park).

Miles travelled 530,817 miles

2. Passengers travelling from further afield: 8,308 (54%)
Distances travelled getting to National Park: calculated on individual routes from Postcode node to nearest point on Park boundary plus 60 miles for travel within the National Park (average journey distance 163 miles).

Miles travelled 1,354,276 miles

Total miles travelled 1,885,093 miles

Divided by car occupancy factor of 1.7

Total car miles saved: 1,108,878

Note:

This assumes that journey patterns are the same whether travelling by car or by public transport whilst it is probable that distances travelled by car owners would be greater than actually travelled by Moorsbus.

Analysis of number of journeys undertaken per passenger suggests that those with access to a car undertake a similar number of journeys per day as do those without access to car. (The greatest number of passengers undertakes 4.2 journeys a day on the Moorsbus Network).

Further information on the Moorsbus Network, including results of the annual passenger surveys undertaken since 1994 is available from Bill Breakell, North York Moors National Park Authority, Bondgate, Helmsley, York YO62 5BP.