

# HOUSING DENSITY

## PRODUCT SHEET

### INTRODUCTION

Emu Analytics' Housing Density product provides an estimate of housing density for a 200m x 200m grid across England and Wales.

### BENEFITS

This data product is an easy-to-use representation of housing density across the whole of England and Wales. It can be used by various organisations including Local Authorities, Architects and Engineering Firms to:

- Rapidly understand the built environment
- Plan housing and transport projects
- Assess health and safety planning
- Plan emergency service provision
- Assess building insurance



Housing Density in London

### DATA

Housing density is presented on a 200m x 200m grid combining data from the Valuation Office Agency, Ordnance Survey and Open Street Map.

The Valuation Office Agency records the number of homes (including flats) at LSOA level. Non-residential land-use areas are removed from this representation and the density data redistributed based on a dasymetric (thematic) approach.

The proportional number of houses in each grid square is calculated and the density is represented as the number of houses per hectare. Compared to other housing density estimates this allows for:

- A more accurate representation of housing density as large parks and industrial areas do not distort the estimate
- A higher resolution of insight - 200m x 200m compared to LSOA level
- More up-to-date insights (2015) than used by census-based estimates (2011)

### Coverage

The product covers the whole of England and Wales.

### Accuracy

Housing density is calculated across a 200m x 200m grid.

Non-residential areas have been removed where possible using data from Ordnance Survey Open Map, Ordnance Survey Greenspace and Open Street Map data products. However these data sources have limited gaps in coverage and some non-residential areas may remain in the dataset as a result.

### Delivery

The data is delivered in Shapefile format for use in standard GIS software such as Esri ArcMap/Pro and QGIS. Files are split by county.

Grid outlines are in the British National Grid (BNG OSGB 1936) coordinate system.

### Licensing

Two licenses are available, Internal Project and Commercial Usage. More details can be found at [www.emu-analytics.com/products/datapacks](http://www.emu-analytics.com/products/datapacks)