Countryside Survey: Individual Ash
Tree Distribution (2007)
Dataset Documentation

Countryside Survey: Individual Ash tree distribution 2007
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Countryside Survey data © NERC - Centre for Ecology & Hydrology

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'CS07_Ash_Ind_Trees' file details:

- *File contains estimates of individual ash trees for Great Britain. The individual trees are trees in the landscape i.e. outwith woodland or hedgerows. The estimates are based on Countryside Survey 2007 data.*

Associated datasets:
- ITE Land Classification (2007) http://dx.doi.org/10.5285/5f0605e4-aa2a-48ab-b47c-bf5510823e8f
- Countryside Survey (www.countrysidesurvey.org.uk)

Columns in dataset:
- *LC2007*   Land Class (numeric)
- *LandClass*   Land Class (text)
- *Mn_tree_km* Mean number of individual ash trees per 1km per land class.

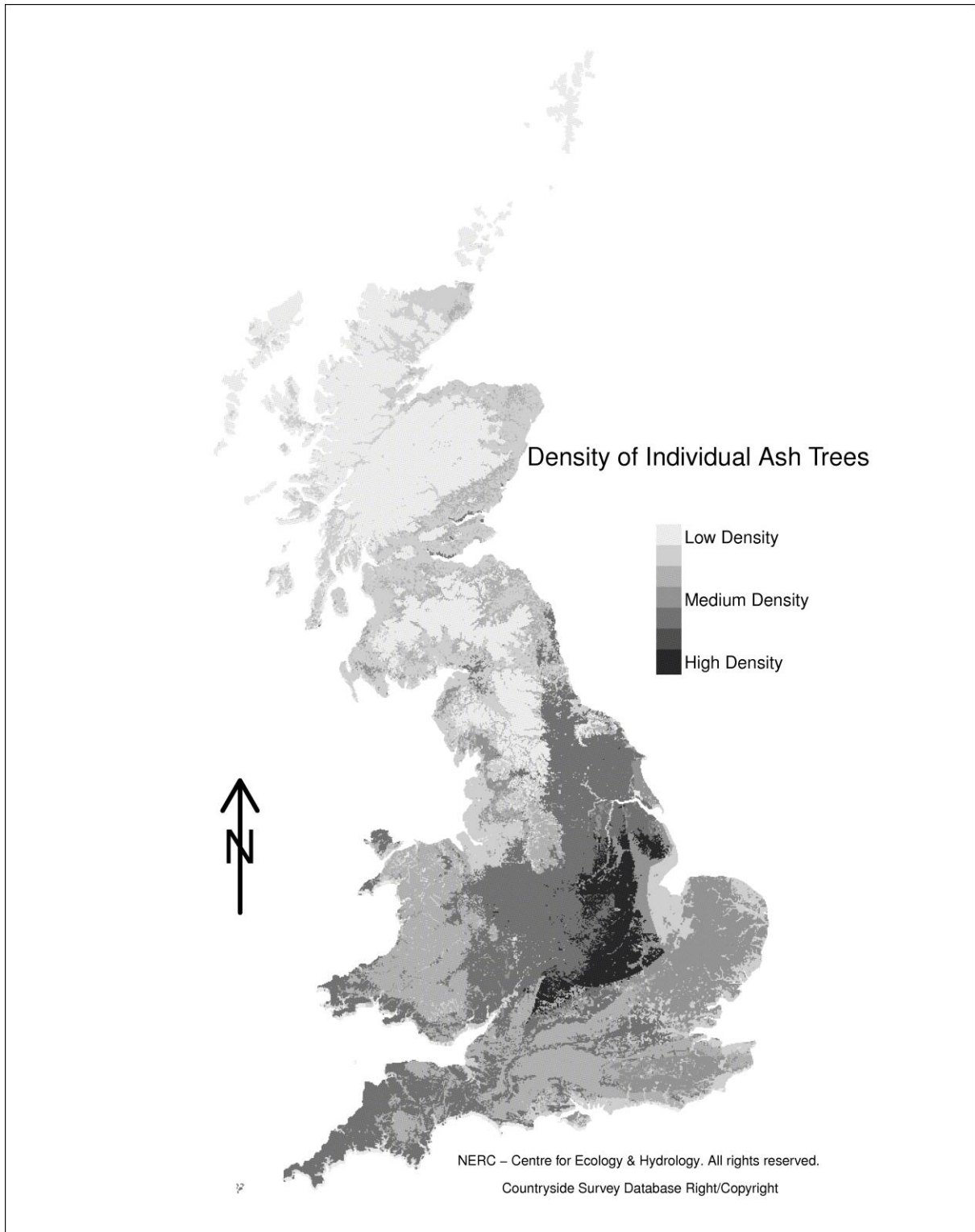|	
Resolution	**1km**
Coordinate system	**British National Grid**
Projection	**Transverse Mercator**
Extent	**Great Britain**
Projection	**British National Grid OSGB1936**

Countryside Survey: Individual Ash tree distribution estimates

The Countryside Survey samples 1km squares across GB using a stratified random sampling system (based on land classes which are comprised of the major national ecological gradients e.g. soils, geology and climate) (Bunce *et al*. 1996, Carey *et al*. 2008). This enables scaling up from samples to produce national estimates using the land classes.

Within each 1km square each individual tree in the landscape (i.e. outside of woodland) is recorded along with an estimate of modal DBH. In this dataset, trees that were in small clumps were also included (less than a minimum mappable unit (mmu) of 20m x 20m; if they were above the mmu they would have been included in area data). Surveyors were also asked to record up to 10 veteran trees within each 1km square (maximum 2 per species). National estimates were created from the number of individual trees within each 1km square which were recorded as point features (either in a field or as a hedgerow tree) using land classes. To do this, mean numbers of ash trees within a 1km square by land class has been calculated. This is multiplied by the area of each land class and summed over all land classes to create a national estimate in hectares for the areal extent of ash for GB.   The land classification used in this analysis was the 2007 ITE Land Classification, with 45 land classes.

More information about methods can be found at www.countrysidesurvey.org.uk

Map showing the Ash Tree distribution as estimated by Countryside Survey 2007

Density of Individual Ash Trees

Low Density

Medium Density

High Density

Further reading:

- **Distribution of Ash trees (Fraxinus excelsior) in Countryside Survey data** (2013). Maskell, L.C., Henrys, P.A., Norton, L.R., Smart, S.M. and Wood, C.M. *January 2013,* NERC/Centre for Ecology & Hydrology, Lancaster. http://www.countrysidesurvey.org.uk/sites/default/files/pdfs/Distribution%20of%20Ash%20trees%20in%20CS_9thJan2013.pdf

- Barr, C.J. (1998) **The Sampling Strategy for Countryside Survey** DETR CONTRACT No. CR0212. *Revised by Wood, C.M. (2011) as **The Sampling Strategy for Countryside Survey (up to 2007)***
- http://nora.nerc.ac.uk/19487/1/CS_Sampling_Strategy_Revised.pdf

- Bunce, R.G.H., Barr, C.J., Clarke, R.T., Howard, D.C. & Lane, A.M.J. (1996) **ITE Merlewood Land Classification of Great Britain.** Journal of Biogeography, 23, 625-634.

- Carey, P.D.; Wallis, S.; Chamberlain, P.M.; Cooper, A.; Emmett, B.A.; Maskell, L.C.; McCann, T.; Murphy, J.; Norton, L.R.; Reynolds, B.; Scott, W.A.; Simpson, I.C.; Smart, S.M.; Ullyett, J.M.. (2008) **Countryside Survey: UK Results from 2007.** NERC/Centre for Ecology & Hydrology, 105pp. (CEH Project Number: C03259) http://www.countrysidesurvey.org.uk/outputs/uk-results-2007

- R.D. Morton, C. Rowland, C. Wood, L. Meek, C. Marston, G. Smith, R. Wadsworth, I. Simpson. July 2011 CS Technical Report No 11/07: **Final Report for LCM2007 - the new UK land cover map.** NERC/Centre for Ecology & Hydrology (CEH Project Number NEC03259). http://nora.nerc.ac.uk/14854/1/LCM2007_Final_Report_-_vCS_Web.pdf