



# **The Breeding Bird Survey 2011**

The population trends of the UK's breeding birds



#### **The BBS Partnership**

#### **British Trust for Ornithology**



The Nunnery Thetford Norfolk IP24 2PU **www.bto.org** 

#### Joint Nature Conservation Committee



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#### Royal Society for the Protection of Birds



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The Breeding Bird Survey is run by the British Trust for Ornithology (BTO) and is jointly funded by the BTO, the Joint Nature Conservation Committee (JNCC) (on behalf of the statutory nature conservation agencies: Council for Nature Conservation and the Countryside, the Countryside Council for Wales, Natural England and Scottish Natural Heritage), and the Royal Society for the Protection of Birds (RSPB).

The members of the BBS Steering Committee in 2011 were Stephen Baillie (Chair, BTO), Deborah Procter (JNCC), Mark Eaton (RSPB), Andy Musgrove (BTO) and James Pearce-Higgins (BTO).

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#### The BBS Team at the BTO

Kate Risely is the BBS National Organiser, responsible for the day-to-day running of the BBS, liaising with BTO Regional Organisers and volunteers, maintaining the database, promoting the scheme, and producing the annual report.

Dario Massimino, Research Ecologist in the Population Ecology and Modelling Team, produced the bird population trends in 2011, and Stuart Newson produced the mammal population trends. Alison Johnston is the BTO's Ecological Statistician. David Noble is the Principal Ecologist for Monitoring at the BTO, responsible for strategic developments in biodiversity monitoring. Andy Musgrove is the Head of the Monitoring Team, which includes the BBS and other surveys. Stephen Baillie is the Director of the Modelling and Demography Group at the BTO, and has overseen the BBS since its inception in 1994.

# The 2011 BBS Report

This is the seventeenth annual report of the BTO/JNCC/RSPB Breeding Bird Survey (BBS), containing the population trends of widespread UK bird species during the period 1994–2011.

The BBS is the main scheme for monitoring the population changes of the UK's common and widespread breeding birds, providing an important indicator of the health of the countryside. BBS trends are produced each year for over 100 species, and the results are widely used to set conservation priorities.

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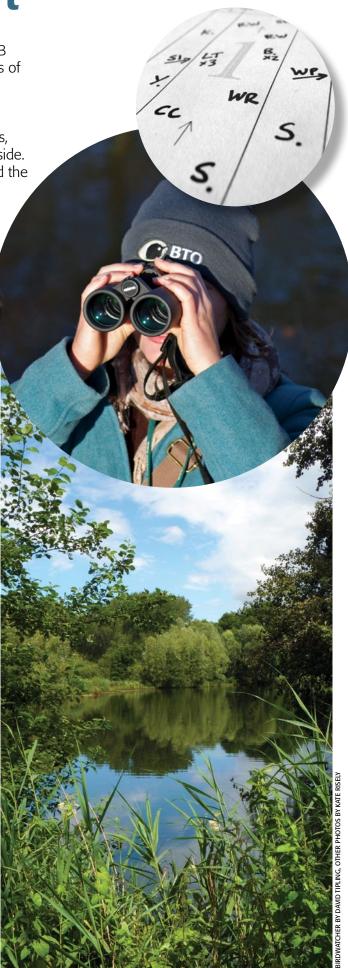
- Special thanks.....back cover

#### **Online Resources**

Further information, including population trend graphs, can be found at www.bto.org/bbs, and a

full species-by-species discussion of these results, and those from other surveys, can be found on the BirdTrends website at www.bto.org/birdtrends.

This report can be downloaded at www.bto.org/bbs/results/bbsreport.htm.



#### **BBS NEWS AND RESEARCH**

# Mapping bird trends using BBS data

Exciting new ways of visualising changes in bird populations are being developed by the BTO's Population Ecology and Modelling Team.

By Dario Massimino, Research Ecologist and Alison Johnston Ecological Statistician, BTO

The BBS trends are an important tool for bird conservation, often providing the first notification of population declines. Trends are produced for the four separate countries within the UK, and for regions within England, thus helping to identify how trends vary spatially. For example, the Cuckoo population declined by 63% in England during 1995–2010, but was largely stable in Scotland. This kind of information helps inform local conservation priorities, but is still relatively broad-scale. Using various statistical techniques we can now produce maps of trends at much finer scale that are not tied to national and regional boundaries.

Not every 1-km square in the country is surveyed, so we use a statistical model that relates the numbers of birds counted in each BBS square to the habitat in that square, and to its location, because squares that are close together are likely to have similar densities of birds. We also use the distance-band data to estimate detectability of species, and account for this in the models. These statistical models allow us to fill in the gaps between surveyed squares using information on their location and habitat, helped by the fact that BBS survey squares are chosen randomly. By producing maps of density at 1-km resolution using data from years 1994 to 1996 and from years 2007 to 2009, we can produce fine-scale maps of modelled population trend based on the difference between the densities in the early years and the later years. These estimates account for the fact that some locations might have some opposite trends to squares around them, and present a likely average trend for each square, based on habitat and location. However, being estimates, they are unlikely to be exactly right for every location, particularly in areas with few BBS squares.

We illustrate this process for Curlew, demonstrating that densities have declined by more than 50% in many areas of the UK (the national trend is a 44% decline), as shown by the extent of the red colour on the map in Figure 1. Nonetheless, there appear to be areas where Curlew density has increased; the dark blue patches in the Pennines, eastern Scotland and Outer Hebrides show modelled increases of more than 50%. This information about the spatial variation of changes in population density is extremely useful in conservation. If we investigate why the Curlew population has fallen in Wales and many other western areas but has increased in others, we may be able to learn about the causes of decline and develop strategies for conservation.

Changes to population density will have different implications depending on whether they occur in areas where the species has its highest densities, or in more marginal areas. Large declines occurring in the species' strongholds may have substantial effects on the total population size and raise conservation concerns, as the species may be affected by harmful processes in its core areas. On the other hand, proportionally large declines occurring in marginal areas may have less influence on overall numbers, but have consequences for local extinctions. It is therefore useful to combine on the same map the information about actual population density and change in population density (Figure 2). The colour of the dots indicates the changes in population density (as in Figure 1). Their size, however, is related to population density itself. Large red dots indicate large declines in Curlew strongholds, while smaller red dots are showing proportionally large declines where the species is not so abundant.

This is just one example of the range of maps we will be producing using BBS data, which will be available on the BBS website from summer 2012 (www.bto.org/bbs). Do look at these to find out how bird populations may have changed in your region. An explanation of how these maps relate to those produced by the 2007–11 Bird Atlas can be found in *BTO News* (issue 300, July–August 2012).



Following this trial it was decided that recording

how birds were detected,

and recording males

and females, could be

feasibly introduced as optional additions to the

survey. It was decided

bands would not be

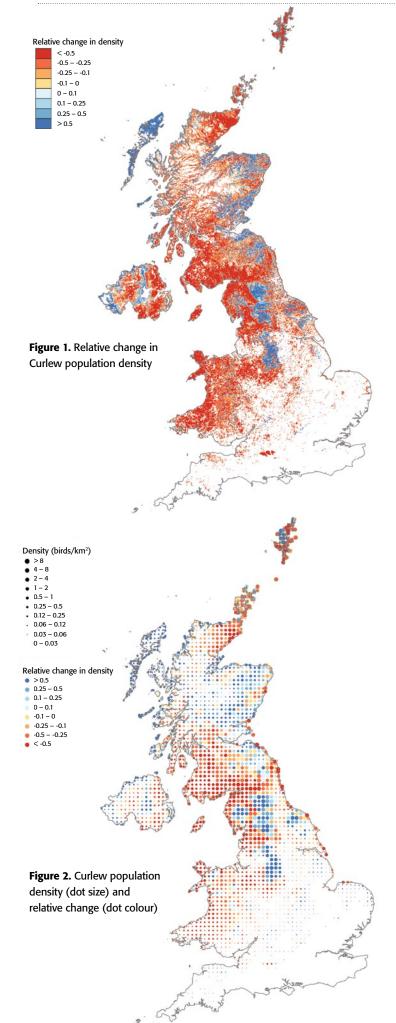
are currently being

considered.

that additional distance

introduced at this time. These potential changes

## **BBS NEWS AND RESEARCH**



# Trial of methods to improve detectability analysis

In 2011 a small number of volunteers took part in a trial of potential new survey methods designed to improve detectability analysis.

These methods included the use of extra distance bands (at 10m and 50m), recording males and females, and recording how birds were detected (by song, call or by sight).

# Opting out of paper BBS reports

The BBS partner organisations strive to reduce the use of paper where possible. While we will continue to produce paper BBS reports for the foreseeable future, we are looking at ways to reduce the number of copies printed. If you are a BBS volunteer, and you would prefer to receive your copy of the BBS report electronically, please contact bbs@bto. org to let us know. We will continue to send paper reports to volunteers unless we are instructed otherwise.

# Wider Countryside Butterfly Survey 2011

Over 700 squares were surveyed for the Wider Countryside Butterfly Survey in 2011, a joint effort by BBS and Butterfly Conservation volunteers. The most abundant species recorded were Meadow Brown, Small, Large and Greenveined White, and Gatekeeper. It was an improved year for Red



Admiral, rising five places to become the sixth most frequently encountered species, but the biggest losers in 2011 were Small Tortoiseshell and Common Blue.

Full results from 2011 can be found on the BBS website, and we look forward to the results of the 2012 season.

**RED ADMIRAL BY KATE RISELY** 

## **BBS NEWS AND RESEARCH**

# Large-scale impacts of deer browsing on woodland birds

New research has found that deer-related habitat modification may be affecting some bird species on far larger scales than previously thought.

By Stuart Newson Senior Research Ecologist, BTO

New analyses have found evidence for a large-scale negative association between three widespread and abundant deer species and population sizes of several woodland birds.

The research applied novel analytical methods to BBS bird and mammal data to examine whether populations of eleven woodland bird species that are associated with dense understorey habitats in lowland England have been depressed following increases in the abundance of three deer species: Reeves' Muntjac, Roe Deer and Fallow Deer. Whilst all three deer species have increased over the BBS period, maps of predicted relative abundance can be produced from the BBS mammal data, using similar techniques to those described for birds on page 4. For example, the maps below show the expansion of Reeves' Muntjac eastwards from central England to East Anglia where a high-density population has become established (Figure 3).

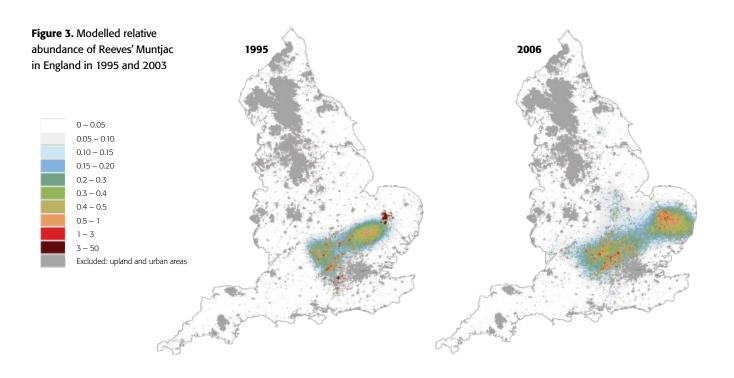
For five of the eleven understorey bird species considered there was evidence that increases in deer are associated with large-scale depression of abundance or population declines in lowland England. Of these species, it was suggested that the impacts of deer are likely to have been greatest for two species of conservation concern, Nightingale and Willow Tit.

Whilst this study is not suggesting that deer are the only, or even the main, factor driving woodland bird declines, as many other issues are potentially implicated, these findings are consistent with those from small-scale experimental studies which suggest that increases in deer abundance may be affecting some bird species on far larger scales than previously appreciated.

This study shows how BBS bird and mammal data can be combined with spatial analytical techniques to identify causes of population decline in woodland birds.

#### Find out more ...

Newson, S.E., Johnston, A., Renwick, A.R., Baillie, S.R. & Fuller, R.J. 2012. Modelling large-scale relationships between changes in woodland deer and bird populations. *Journal of Applied Ecology* **49**: 278–286.



#### **BBS BACKGROUND AND METHODS**

The BBS was launched, in 1994, to provide more representative habitat and geographical coverage than the main survey running at the time, the Common Birds Census (CBC). The CBC ended in 2000, and the overlap period between 1994 and 2000 allowed the BTO to develop methods for calculating long-term trends (from the 1960s to the present) using information from both schemes.

The BBS is a line-transect survey based on randomly located 1-km squares. Squares are chosen through stratified random sampling, with more squares in areas with more potential volunteers. The difference in sampling effort is taken into account when calculating trends. BBS volunteers make two early-morning visits to their square during the April–June survey period, recording all birds encountered while walking two 1-km transects across their square. Each 1-km transect is divided into five 200-m sections for ease of recording. Birds are recorded in three distance categories, or as 'in flight', in order to assess detectability and work out species density. Observers also record the habitat along the transects, and record any mammals seen during the survey. Surveying a BBS square involves around six hours of fieldwork per year, and the aim is for each volunteer to survey the same square (or squares) every year.

As BBS squares are randomly selected, they can turn up on any kind of habitat. Some squares can never be surveyed, and these truly 'uncoverable' sites are removed from the system. However, squares that are temporarily inaccessible, or which are not taken up due to their remote location, are retained in order to maintain the integrity of the sampling design.

The BBS National Organiser, based at BTO, is responsible for the overall running of the scheme, and is the main point of contact for the network of volunteer Regional Organisers (ROs). ROs are responsible for finding new volunteers and allocating squares to observers in their region. At the end of the season they validate submissions made online, and collect paper submissions and return them to BTO. We are very grateful for the assistance of the ROs.

The BBS provides reliable population trends for a large proportion of our breeding species. Trends can also be produced for specific countries, regions or habitats. For these analyses, we take the higher count from the two visits for each species, summed over all four distance categories and ten transect sections. Only squares that have been surveyed in at least two years are included in the analyses. Population changes are estimated using a log-linear model with Poisson error terms. Counts are modelled as a function of year and site effects, weighted to account for differences in sampling effort across the UK, with standard errors adjusted for overdispersion.

Since 2009, data from additional randomly selected 1-km squares surveyed as part of the Scottish Woodland BBS and the Upland BBS have been included in the BBS sample. These squares were surveyed using the same methodology as standard BBS squares, and results were incorporated into trends accounting for additional sampling effort.

Work has been carried out to assess the reliability of BBS trends, to ensure that reported trends are based on reliable data and sufficient sample sizes. This work has resulted in the following exclusions and caveats:

- We do not report population trends for five species of gull (Black-headed, Common, Lesser Black-backed, Herring and Great Black-backed), as a large proportion of the records are of non-breeding, wintering or migratory individuals.
- Trends for rare breeding species with substantial wintering populations (e.g. Fieldfare) are excluded.
- Trends for Cormorant, Grey Heron and Common Tern are reported with the caveat that counts may contain a high proportion of birds away from breeding sites.
- Trends for Tawny Owl and Barn Owl are reported with the caveat that the BBS monitors nocturnal species poorly.
- Counts for six wader species (Oystercatcher, Golden Plover, Lapwing, Snipe, Curlew and Redshank) are corrected to exclude counts from non-breeding flocks, and observations of Golden Plover in unsuitable breeding habitat are also excluded.

# Studies using BBS data

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# **Further reading**

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## SURVEY COVERAGE

# Consistent coverage

Survey coverage has remained remarkably stable for the last four years, during the period coinciding with fieldwork for the 2007–11 Bird Atlas. In 2011, 3,222 BBS squares were surveyed, slightly fewer than the previous year. We are very grateful to all volunteers for their continued commitment to the survey.

The 2011 total includes 76 'Adjacent Upland' squares, up from 52 in 2010, and 12 'Scottish Woodland' squares. These schemes are designed to improve sampling in underrepresented habitats.

As in previous years, 52 squares in Northern Ireland were surveyed by professional fieldworkers, meaning that 3,170 squares were surveyed by volunteers. This coverage was achieved by 2,471 individual volunteers.

No professional 'add-on' surveys were carried out in 2011, but records collected by professionals in previous years were included when calculating the trends.

#### Table 1 Number of BBS squares surveyed

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
England	1,173	1,325	1,420	1,657	1,713	1,792	1,749	533	1,652	1,738	1,885	2,179	2,569	2,819	2,549	2,566	2,548	2,518
Scotland	245	283	308	313	309	275	246	78	231	255	274	305	336	414	333	329	331	358
Wales	122	121	116	138	192	223	213	22	215	214	254	271	271	269	242	232	245	221
Northern Ireland	25	17	65	75	85	95	83	0	97	109	102	120	107	129	121	116	115	110
Channel Islands	1	1	7	6	7	7	7	7	7	7	11	13	19	16	15	17	16	15
Isle of Man	4	4	4	6	6	5	3	0	3	4	6	3	5	4	1	0	0	0
UK Total	1,570	1,751	1,920	2,195	2,312	2,397	2,301	640	2,205	2,327	2,532	2,891	3,307	3,651	3,261	3,260	3,255	3,222

# **BBS-Online**

Results from 2,770 squares were submitted online in 2011; 86% of the total, and another welcome increase in online submissions.

Data submitted online can be processed more efficiently than from paper forms, and the BBS-Online application allows users to enter and edit bird, habitat, mammal and colony data online, and to view all historical records from their squares (including those submitted by previous observers). To reduce the amount of paper we use we now issue reduced packs of forms to online users, with the paper summary sheets omitted.

The design of BBS-Online means that counts should be entered directly from the field recording sheets; counts should not be transferred to paper summary sheets beforehand. The system will add together counts where necessary, so individual records can be entered exactly as noted down on the field sheets. Online users can view an Ordnance Survey map of their square, and map their transect route online.



The online recording system can be accessed at www.bto.org/bbs.

#### 4,000 3,000 2,000 1,000 1999 2008 2003 2004 2006 2001 1991 1996 199<sup>6</sup> 2002 2005 2009 ,000 2001 Wales England Scotland Northern Ireland

BBS squares surveyed in

#### Number of BBS squares surveyed

#### Scotland

2011 saw Scotland's second-highest level of BBS coverage, at 358 squares. The regions of Borders, Central, Lothian and Inverness (East & Speyside) saw their highest-ever coverage, but more volunteers are needed in Kirkcudbright, Shetland and Wigtown in particular.

The total number of squares covered by volunteers in 2011 includes 12 Scottish Woodland squares and 19 Adjacent Upland squares. No BBS squares in Scotland were covered by professional fieldworkers in 2011.



#### BBS squares covered in 2011, including Adjacent Upland squares

#### England

In 2011, 2,518 BBS squares were surveyed in England. Record levels of volunteer coverage were achieved in eleven regions, and over one hundred squares were covered in each of Avon, Berkshire, Hampshire and Sussex.

The total number of squares covered by volunteers in 2011 includes 44 Adjacent Upland squares.

No BBS squares in England were covered by professional fieldworkers in 2011.

#### **Northern Ireland**

In 2011, 110 BBS squares were surveyed in Northern Ireland. Of these, 52 squares were surveyed by professional fieldworkers funded by the Northern Ireland Environment Agency.

#### Wales

Coverage in Wales was lower than in recent years, with 221 squares surveyed. However, the region of Caernarfon once again saw record coverage.

The total number of squares covered by volunteers includes 13 Adjacent Upland squares. No BBS squares in Wales were covered by professional fieldworkers in 2011.

## Channel Islands

Fifteen squares were surveyed by volunteers on the Channel Islands in 2011 (not shown on map).

## **SPECIES RECORDED**

# Updated species order

In 2010 the British Ornithologists' Union announced changes to the taxonomic order of British bird species, mainly affecting passerines. Following completion of fieldwork for the 2007-11 Bird Atlas the BTO has moved to introduce the new species order across all surveys and publications, with the result that the order of species shown here, and in the trend tables, differs from previous reports.

A total of 211 species were recorded on the 3,222 BBS squares surveyed in 2011 (Table 2). This total includes a number of domestic breeds and escapees (see footnotes).

Woodpigeon (recorded on 93% of squares), Chaffinch (92%) and Blackbird (92%) were the most widespread species, and the most numerous species were Woodpigeon (77,744 individual birds counted), Rook (36,401) and Blackbird (35,345). Particularly interesting species recorded on BBS visits in 2011 included a Ptarmigan in Sutherland and Cranes on a square in Norfolk.

The average number of species recorded on BBS squares in 2011 was 30, but the highest number was 64 species, on squares in Hampshire and the West Midlands. Of course, the value of the results does not depend on the number of species recorded, and we are particularly grateful to observers who survey species-poor, remote or urban areas, as it is just as important to know where there are few birds as where there are many.

Although we don't report population trends for all species, some indication of population status can be found on the BBS website, where we report the number of squares on which each species is recorded in each year. Full details of the number of individuals counted, for all years, can also be found on the BBS website: www.bto.org/bbs.



#### Table 2 Species recorded in 2011

Table 2 Species			
Species	Scientific name	Squares	%
Mute Swan	Cygnus olor	303	9.4
Whooper Swan	Cygnus cygnus	2	0.1
Pink-footed Goose	Anser brachyrhynchus	9	0.3
White-fronted Goose Greylag Goose	Anser albifrons Anser anser	1 319	0.0 9.9
Greylag Goose (domestic)*		21	0.7
Canada Goose (i)	Branta canadensis	616	19.1
Barnacle Goose	Branta leucopsis	3	0.1
Brent Goose	Branta bernicla	2	0.1
Egyptian Goose (i)	Alopochen aegyptiaca	40 155	1.2 4.8
Shelduck Mandarin Duck (i)	Tadorna tadorna Aix galericulata	49	4.0
Wigeon	Anas penelope	8	0.2
Gadwall	Anas strepera	52	1.6
Teal	Anas crecca	30	0.9
Mallard	Anas platyrhynchos	1,500	46.6
Mallard (domestic)* Pintail	Anas platyrhynchos Anas acuta	22	0.7 0.0
Shoveler	Anas clypeata	9	0.0
Red-crested Pochard	Netta rufina	2	0.1
Pochard	Aythya ferina	20	0.6
Tufted Duck	Aythya fuligula	172	5.3
Eider	Somateria mollissima	15	0.5
Common Scoter Red-breasted Merganser	Melanitta nigra Mergus serrator	1 10	0.0 0.3
Goosander	Mergus merganser	45	1.4
Red Grouse	Lagopus lagopus	157	4.9
Ptarmigan	Lagopus muta	1	0.0
Black Grouse	Tetrao tetrix	16	0.5
Red-legged Partridge (i)	Alectoris rufa	709	22.0
Grey Partridge Quail	Perdix perdix Coturnix coturnix	207 31	6.4 1.0
Pheasant (i)	Phasianus colchicus	2,249	69.8
Red-throated Diver	Gavia stellata	10	0.3
Black-throated Diver	Gavia arctica	2	0.1
Great Northern Diver	Gavia immer	4	0.1
Fulmar	Fulmarus glacialis	18	0.6
Manx Shearwater Gannet	Puffinus puffinus Morus bassanus	1 13	0.0 0.4
Cormorant	Phalacrocorax carbo	285	8.8
Shag	Phalacrocorax aristotelis	14	0.4
Bittern	Botaurus stellaris	4	0.1
Little Egret	Egretta garzetta	65	2.0
Grey Heron	Ardea cinerea	706	21.9
Little Grebe Great Crested Grebe	Tachybaptus ruficollis Podiceps cristatus	71 78	2.2 2.4
Black-necked Grebe	Podiceps nigricollis	2	0.1
Honey-buzzard	Pernis apivorus	2	0.1
Red Kite	Milvus milvus	231	7.2
Marsh Harrier	Circus aeruginosus	37	1.1
Hen Harrier	Circus cyaneus	14	0.4
Goshawk Sparrowhawk	Accipiter gentilis Accipiter nisus	15 388	0.5 12.0
Buzzard	Buteo buteo	1,480	45.9
Golden Eagle	Aquila chrysaetos	9	0.3
Osprey	Pandion haliaetus	8	0.2
Kestrel	Falco tinnunculus	684	21.2
Merlin	Falco columbarius	14	0.4
Hobby Peregrine	Falco subbuteo Falco peregrinus	61 70	1.9 2.2
Water Rail	Rallus aquaticus	6	0.2
Corncrake	Crex crex	5	0.2
Moorhen	Gallinula chloropus	649	20.1
Coot	Fulica atra	303	9.4
Crane	Grus grus	1	0.0
Oystercatcher Avocet	Haematopus ostralegus Recurvirostra avosetta	370 6	11.5 0.2
Stone-curlew	Burhinus oedicnemus	5	0.2
Little Ringed Plover	Charadrius dubius	9	0.3
Ringed Plover	Charadrius hiaticula	28	0.9
Dotterel	Charadrius morinellus	2	0.1
Golden Plover	Pluvialis apricaria	109	3.4
Grey Plover Lapwing	Pluvialis squatarola Vanellus vanellus	2 685	0.1 21.3
Knot	Calidris canutus	2	0.1
Sanderling	Calidris alba	1	0.0
-			



Species         Solentific nome         Squares         94           Dunlin         Calidra opina         21         0.7           Snipe         Calidra opina         21         0.7           Snipe         Calidra opina         11         0.3           Bartalied Godwit         Limosa limosa         9         0.3           Bartalied Godwit         Limosa limosa         9         0.3           Bartalied Godwit         Limosa laponica         4         0.1           Curlew         Numenius pheepus         34         1.1           Curlew         Numenius pheepus         34         1.1           Green Sandpiper         Tinga othopus         8         0.2           Spotted Redshank         Tingg othopus         8         0.2           Kittiwak         Rissa tridactyla         1         0.0           Great Skua         Stecroarrus paraticus         10         0.0           Great Skua         Stecroarrus paraticus         10         0.1           Black-backed Gull         Charus araus         10         0.5           Common Gull         Larus araus         10         0.3           Mediterranean Gull         Larus araus         10				
Snipe         Callingo gallingo         129         4.0           Woodcock         Scalopar rusticola         11         0.3           Bar-tailed Godwit         Limosa limosa         9         0.3           Curlew         Numenius pheepus         34         1.1           Curlew         Numenius pheepus         2         0.1           Green Sandpiper         Tringa ochrapus         8         0.2           Spotted Redshank         Tringa ochrapus         67         0.2           Wood Sandpiper         Tringa otanus         67         0.2           Redshank         Stercoaraius skua         7         0.2           Kitiwake         Rescaraius skua         7         0.2           Katiwake         Rescaraius skua         7         0.2           Black-headed Gull         Larus strass         100         0.1           Greent Slack-backed Gull         Larus strass         190         5.9           Lesser Black-backed Gull         Larus strass <th>Species</th> <th>Scientific name</th> <th>Squares</th> <th>%</th>	Species	Scientific name	Squares	%
Woodcock         Scologia rusticola         11         0.3           Bartailed Godwit         Limosa lapponica         4         0.1           Whimbrel         Numenius pheeopus         34         1.1           Curlew         Numenius pheeopus         34         1.1           Common Sandpiper         Actits hypoleucos         61         1.9           Green Sandpiper         Tringa othopus         8         0.2           Spotted Redshank         Tringa othopus         2         0.1           Greenshank         Tringa othopus         2         0.1           Redshank         Tringa othopus         7         0.2           Kittiwake         Restantitepres         4         0.1           Arctic Skua         Stercoraruis parasiticus         10         0.2           Common Gull         Lans melancephalus         17         0.5           Common Gull         Lans argentatus         881         27.3           Hering Gull         Lans melancephalus         189         4.3           Little Tem         Sterna hirundo         96         3.0           Sandwich Tem         Sterna hirundo         96         3.0           Sandwich Tem         Sterna hirundo				
Black-tailed Godwit         Limosa lapponica         4         0.1           Bar-tailed Godwit         Limosa lapponica         4         0.1           Winimbrel         Numenius pheeopus         34         1.1           Curilew         Numenius anguata         528         16.4           Common Sandpiper         Tringa ochropus         8         0.2           Spotted Redshank         Tringa ochropus         8         0.2           Kits Maga Status         7         2.1         1           Arctic Skua         Stercoarrius pronsiticas         1         0.0           Greenshank         Tringa othypus pronsiticas         1         0.0           Great Skua         Stercoarrius pronsiticas         1         0.0           Great Skua         Stercoarrius pronsiticas         1         0.0           Great Skua         Stercoarrius pronsiticas         10         0.5           Black-headed Gull         Larus mains         139         4.3           Ittile Term         Sterna pronsitions         3         11           Sandwich Term         Sterna pronsitions         3         11           Sandwich Term         Sterna pronsitions         3         11           Sandwich Te				
Bartalied Godwit         Linosa lapponica         4         0.1           Whimbrel         Numenius quadta         528         16.4           Common Sandpiper         Artilis hypoleucos         61         1.9           Green Sandpiper         Tringa orthropus         2         0.1           Green Sandpiper         Tringa orthropus         2         0.1           Green Sandpiper         Tringa orthropus         67         2.1           Turmstone         Arenaria interpres         4         0.0           Redshank         Tringa orthropus         20.1           Arctic Skua         Stercorarius sub or 7         0.2           Kittwake         Rissa tridactyla         3         0.1           Black-headed Gull         Chroicocephalus ridibundus         649         20.1           Mediterranean Gull         Larus arus         180         5.9           Cerest Skua         Sterna sandvicensis         17         0.5           Great Black-backed Gull         Larus marinus         139         4.3           Little Term         Sterna paradisea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillenot         Capphus grylle				
Whimbrel         Numenius pravata         528         16.4           Curlew         Numenius arquata         528         16.4           Cormon Sandpiper         Tringa ochrapus         8         0.2           Green Sandpiper         Tringa ochrapus         8         0.2           Spotted Reckshank         Tringa nebularia         9         0.3           Mood Sandpiper         Tringa nebularia         9         0.3           Veod Sandpiper         Tringa nebularia         9         0.3           Arctic Skua         Stercorarius parasiticus         1         0.0           Great Skua         Stercorarius parasiticus         1         0.1           Mediterranean Gull         Larus arus         109         5.9           Lesser Black-backed Cull         Larus arus         180         7.5           Great Black-backed Cull         Larus argentatus         886         7.5           Great Black-backed Gull         Larus argentatus         886         7.5           Great Black-backed Gull         Larus marinus         139         4.3           Sandwich Tem         Sterna paradisea         9         0.3           Razorbill         Ala torda         5         0.2				
Curlew         Numenius arquata         528         16.4           Common Sadpiper         Tringa othrapus         2         0.1           Green Sandpiper         Tringa othrapus         2         0.1           Greenshank         Tringa gareola         1         0.0           Wood Sandpiper         Tringa glareola         1         0.0           Redshank         Tringa totarus         67         2.1           Turnstone         Arenaria interpres         4         0.1           Arctic Skua         Stercorarius parasiticus         1         0.0           Great Skua         Stercorarius skua         7         0.2           Kittiwake         Risst tidactyla         3         0.1           Black-headed Gull         Chroicocephalus ridibundus         649         20.1           Mediterranean Gull         Larus arus         190         5.9           Lesser Black-backed Gull         Larus arus         881         27.3           Lesser Black-backed Gull         Larus arus arus         190         5.0           Sterna hrundo         96         3.0         3.0         3.0           Sterna brandsceas         9         3.0         0.1         3.0         3.0 </td <td></td> <td></td> <td>34</td> <td></td>			34	
Green Sandpiper         Tringa orthropus         8         0.2           Spotted Redshank         Tringa enythropus         2         0.1           Greenshank         Tringa glareola         1         0.0           Wood Sandpiper         Tringa glareola         1         0.0           Redshank         Tringa totarus         67         2.1           Turnstone         Arenaria interpres         4         0.1           Arctic Skua         Stercorarius skua         7         0.2           Kittiwake         Risst tridactyla         3         0.1           Black-headed Gull         Chroicoephalus ridibundus         649         20.1           Mediterranean Gull         Larus arus         190         5.9           Eeser Black-backed Gull         Larus arus         886         27.5           Great Black-backed Gull         Larus marinus         139         4.3           Little Tern         Sterna gardisea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillemot         Cephus grylle         3         0.1           Rock Dove         Columba lina         76         2.4           Stock Dove         Columba li		Numenius arquata		
Spotted Redshank         Tinga enthiopus         2         0.1           Greenshank         Tinga glarola         9         0.3           Wood Sandpiper         Tinga glarola         1         0.0           Redshank         Tinga glarola         1         0.0           Redshank         Arenrai interpes         4         0.1           Arctic Skua         Stercorarius skua         7         0.2           Kittiwake         Rissa tridach/a         3         0.1           Black-headed Gull         Chrisocephalus ridibundus         649         20.1           Mediteranean Gull         Larus arous         190         59           Lesser Black-backed Gull         Larus argentatus         881         27.3           Herning Gull         Larus argentatus         886         27.5           Great Black-backed Gull         Larus mainus         139         4.3           Sternula albifrons         3         0.1         Sandwich Tern         Sternal andbifrons         3         0.1           Sandwich Tern         Sterna paradisea         9         0.3         Razorbill         Alc torda         5         0.2           Black Guillemot         Cephus grylle         3         0.1				
Creenshank         Tringa glareola         1         0.00           Wood Sandpiper         Tringa glareola         1         0.00           Redshank         Tringa totarus         67         2.1           Turnstone         Arenia interpres         4         0.1           Arctic Skua         Stercorarius prostiticus         1         0.00           Great Skua         Stercorarius prostiticus         3         0.1           Mediterranean Gull         Larus melanocephalus ridibundus         649         2.1           Mediterranean Gull         Larus argentatus         886         27.5           Common Cull         Larus argentatus         886         27.5           Greeta Black-backed Gull         Larus argentatus         896         3.0           Sandwich Tern         Sterna paradiscea         9         0.3           Sandwich Tern         Sterna paradiscea         9         0.3           Rock Dove         Columba Inia         15         0.5           Rock Dove         Columba Inia         796         24.7           Stock Dove         Columba one ans         993         3.0           Ring-necked Parakeet(0)         Atta torda         5         0.2           Rin				
Wood SandpiperTring a fareola10.0RedshankTringa totanus672.1TurmstoneArenaria interpres40.1Arctic SkuaStercorarius parasilicus10.0Great SkuaStercorarius parasilicus30.1Blackheaded GullChroicocephalus ridibundus64920.1Mediteranean GullLarus canus1905.9Lesser Black-backed GullLarus fuscus8812.73Herring GullLarus grantus8862.75Great Black-backed GullLarus marinus1394.3Little TermSterna sandvicensis170.5Sandwich TermSterna sandvicensis170.5Common TernSterna paradisaea90.3RazobillAlca torda50.2Black GuillemotCephus grylle30.1Rock DoveColumba livia150.5Feral Pigeon*Columba livia150.5Stock DoveColumba palumbus2,99192.8Collared DoveStreptopelia ductur621.9Ring-necked Parakeet (i)Asia flammeus1083.4Ling-anecked Parakeet (i)Asia flammeus1083.4Ling-aneed OwlAsio atus20.1RockooCuculus canorus6471.5CukooCuculus canorus6471.5Jawn OwlTyta aba471.5Strid RuoAsio atus2.0Shot	• • • •			
RedshankTinga tatanus672.1TurnstoneArenaria interpres40.1Arctic SkuaStercorarius parasilicus10.0Great SkuaStercorarius skua70.2KittiwakeRissa tidadyla30.1Black-headed GullChroicocephalus ridibundus64920.1Mediterranean GullLarus melanocephalus170.5Common GullLarus arus argentatus88627.5Great Black-backed GullLarus argentatus88627.5Corntmon GullLarus argentatus1394.3Little TernSterna paradisea90.3Sandwich TernSterna paradisea90.3RazorbillAla torda50.2Black GuillemotCephus grylle30.1Rock DoveColumba palumbus2.99192.8Collared DoveColumba palumbus2.99192.8Collared DoveColumba palumbus2.99192.8Collared DoveStreptopelia decaoto1,61950.2Turtle DoveStreptopelia dutur621.9Ring-necked Parakeet (1)Pritacula krameri1183.7Lung-eared OwlAsio flammeus100.3SwiftApus apus1,0483.21Gurad DoveColumba colaris472.5Little Owl (1)Athene noctua732.3Tawny OwlStrix aluco1083.4Long-eared OwlAsio flammeu			-	
Arctic Skua         Stercornus parasiticus         1         0.0           Great Skua         Stercornus skua         7         0.2           Kittiwake         Rissa tridacyla         3         0.1           Black-headed Gull         Chrvicocephalus ridibundus         649         20.1           Mediterranean Gull         Larus mainocephalus         17         0.5           Common Gull         Larus anus         190         5.9           Lesser Black-backed Gull         Larus marinus         139         4.3           Little Tern         Sterna andvicensis         17         0.5           Common Tern         Sterna andvicensis         17         0.5           Common Tern         Sterna paradisea         9         0.3           Razorbill         Alca torda         5         0.2           Racok Dove         Columba linia         796         24.7           Stock Dove         Columba palumbus         2.991         92.8           Collared Dove         Streptopelia turtur         62         1.6           Ring-necked Parakeet (i)         Prittacula karmeri         118         3.7           Gucad Dove         Streptopelia turtur         62         1.9           Ring-			67	2.1
Great Skua         Stercorarius skua         7         0.2           Kittiwake         Rissa tridactyla         3         0.1           Black-headed Gull         Chroicoccephalus ridibundus         649         20.1           Mediterranean Gull         Larus ranus         190         5.9           Lesser Black-backed Gull         Larus ranus         881         27.3           Herring Gull         Larus ranus         886         7.5           Great Black-backed Gull         Larus ranus         886         9         4.3           Little Tern         Sterna Inirudo         96         3.0         1           Sandwich Tern         Sterna Inirudo         96         3.0         1           Common Tern         Sterna Inirudo         96         3.0         1           Rock Dove         Columba Inira         76         2.4.7         1         0.1           Rock Dove         Columba oenas         93         3.0.8         100         106         2.91         92.8           Collared Dove         Streptopelia turtur         62         1.9         1.6         1.5           Cuckoo         Guimba oenas         93         3.0         1.5         1.5				
Kittiwake         Rissa tridactyla         3         0.1           Blackheaded Gull         Chroicocepholus ridibundus         649         20.1           Blackheaded Gull         Larus ranus         190         5.9           Lesser Black-backed Gull         Larus fuscus         881         27.3           Herring Gull         Larus ragentatus         886         27.5           Great Black-backed Gull         Larus marinus         139         4.3           Little Tern         Sterna labifrons         3         0.1           Sandwich Tern         Sterna andrivensis         17         0.5           Common Tern         Sterna pardisace         9         0.3           Razorbill         Alca torda         5         0.2           Black Cuillemot         Cephus grylle         3         0.1           Rock Dove         Columba anas         993         30.8           Woodpigeon         Columba anas         293         30.8           Woodpigeon         Columba anas         293         30.8           Woodpigeon         Columba anas         293         30.8           Woodpigeon         Columba anas         20.1         Bart         73         2.3           <			-	
Black-headed Gull         Chroicocephalus ridibundus         649         20.1           Mediterranean Gull         Larus melanocephalus         17         0.5           Common Gull         Larus carus         190         5.9           Lesser Black-backed Gull         Larus fuscus         881         27.3           Herring Cull         Larus argentatus         886         27.5           Great Black-backed Gull         Larus merinus         139         4.3           Little Tem         Sterna sandvicensis         17         0.5           Common Tern         Sterna hirundo         96         3.0           Arctic Tern         Sterna paradisaea         9         0.3           Razorbill         Alca torda         5         0.2           Black Cuillemot         Cephus grylle         3         0.1           Rock Dove         Columba livia         796         24.7           Stock Dove         Columba cenas         933         30.8           Woodpigeon         Columba andumbus         2.991         92.8           Collarde Dove         Streptopelia decaoto         1.619         50.2           Turtle Dove         Streptopelia durun         62         1.9           Cucko				
Mediterranean Gull         Larus melanocephalus         17         0.5           Common Gull         Larus canus         190         5.9           Lesser Black-backed Gull         Larus argentatus         886         27.5           Great Black-backed Gull         Larus marinus         139         4.3           Little Tern         Sterna sandvicensis         17         0.5           Common Tern         Sterna brandskeensis         17         0.5           Common Tern         Sterna paradisea         9         0.3           Razorbill         Aka torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Kock Dove         Columba livia         15         0.5           Feral Pigeon*         Columba niva         199         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Curkoo         Guarulus canorus         647         2.0         1           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7 <td></td> <td>,</td> <td></td> <td></td>		,		
Common Gull         Larus fuscus         190         5.9           Lesser Black-backed Gull         Larus fuscus         881         27.3           Geatt Black-backed Gull         Larus morinus         139         4.3           Little Tern         Sternal andricensis         17         0.5           Sandwich Tern         Sterna sandvicensis         17         0.5           Common Tern         Sterna hirundo         96         3.0           Arctic Tern         Sterna pandisaea         9         0.3           Razorbill         Aka torda         5         0.2           Black Guillemot         Cephus grylle         3         0.1           Rock Dove         Columba livia         796         24.7           Stock Dove         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psitacula krameri         118         3.7           Tawny Owl         Strix aluco         108         0.3           Swift         Apus apus         1,048         3.25           Kingfisher				
Herring Gull         Larus argentatus         886         27.5           Great Black-backed Gull         Larus marinus         139         4.3           Little Term         Sternal albifrons         3         0.1           Sandwich Term         Sterna hirundo         96         3.0           Arctic Term         Sterna paradísaea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         796         24.7           Stock Dove         Columba cenas         993         30.8           Woodpigeon         Columba alumbus         2.991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psitacula krameri         118         3.7           Cuckoo         Guculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Akio totus         2         0.1           Short-eared Owl         Asio totu	Common Gull		190	5.9
Great Black-backed Gull         Larus marinus         139         4.3           Little Term         Sternal adbifrons         3         0.1           Sandwich Tern         Sterna sandvicensis         17         0.5           Common Tern         Sterna hirundo         96         3.0           Arctic Tern         Sterna paradisaea         9         0.3           Razorbill         Ala torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         196         24.7           Stock Dove         Columba oenas         993         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia durtur         62         1.9           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Cuckoo         Cuckia curatis canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Stra duco         108         3.4           Long-eared Owl         Asio otus				
Little Tern         Sternula albifrons         3         0.1           Sandwich Tern         Sterna sandvicensis         17         0.5           Common Tern         Sterna paradisaea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         15         0.5           Feral Pigeon*         Columba oenas         993         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psitacula krameri         118         3.7           Cuckoo         Cuculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio otts         2         0.1           Swift         Apus apus         1,048         32.5           Kingfisher         Alceda atthis         45 </td <td>Herring Gull</td> <td></td> <td></td> <td></td>	Herring Gull			
Sandwich Term         Sterna sandvicensis         17         0.5           Common Tern         Sterna hirundo         96         3.0           Arctic Tern         Sterna paradisaea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         796         24.7           Stock Dove         Columba palumbus         2.991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Cuckoo         Cuculus canorus         647         1.5           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio otus         2         0.1           Short-eared Owl         Asio flammeus         10         0.3           Swift         Apus apus         1,048         32.5           Kingfisher         Alcedo atthis         45         1.4           Green Woodpecker         Dendrocopos minor				
Common Tern         Sterna hirundo         96         3.0           Arctic Tern         Sterna paradísaea         9         0.3           Razorbill         Alca torda         5         0.2           Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         796         24.7           Stock Dove         Columba oenas         993         30.8           Woodpigeon         Columba oenas         993         30.8           Woodpigeon         Columba oenas         993         30.8           Woodpigeon         Columba adumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psitacula krameri         118         3.7           Curclos         Curclus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Strix aluco         108         3.4           Green Woodpecker         Pica pica         9				
Razorbill         Alca torda         5         0.2           Black Cuillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         76         24.7           Stock Dove         Columba livia         796         24.7           Stock Dove         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Cuckoo         Cuculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio flammeus         1,0         0.3           Swift         Apus apus         1,048         32.5           Kingfisher         Alcdo atthis         45         1.4           Green Woodpecker         Dendrocopos major         1,520         47.2           Lesser Spotted Woodpecker         Dendrocopos mino				
Black Guillemot         Cepphus grylle         3         0.1           Rock Dove         Columba livia         15         0.5           Feral Pigeon*         Columba livia         796         24.7           Stock Dove         Columba a oenas         993         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia decaocto         1,619         50.2           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Cuckoo         Cuculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio flammeus         10         0.3           Swift         Apus apus         1,048         32.5           Kingfisher         Alcedo atthis         45         1.4           Greent Spotted Woodpecker	Arctic Tern	Sterna paradisaea		0.3
Rock Dove         Columba livia         15         0.5           Feral Pigeon*         Columba ivia         796         24.7           Stock Dove         Columba oenas         993         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia turtur         62         1.9           Ring-necked Parakeet (i)         Psittacula krameri         118         3.7           Cuckoo         Cuculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio otus         2         0.1           Short-eared Owl         Asio otus         2         0.1           Short-eared Owl         Asio otus         45         1.4           Green Woodpecker         Picus viridis         956         29.7           Great Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrrhocorax pyrrhoc				
Feral Pigeon*         Columba livia         796         24.7           Stock Dove         Columba oenas         993         30.8           Woodpigeon         Columba palumbus         2,991         92.8           Collared Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia decaocto         1,619         50.2           Turtle Dove         Streptopelia decaocto         1,619         50.2           Cuckoo         Cuculus canorus         647         20.1           Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Stix aluco         108         3.4           Long-eared Owl         Asio flammeus         10         0.3           Swift         Apus apus         1,048         32.5           Kingfisher         Alecdo atthis         45         1.4           Green Woodpecker         Picus viridis         956         29.7           Great Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrrhoc				
Stock DoveColumba oenas99330.8WoodpigeonColumba palumbus2,99192.8Collared DoveStreptopelia decaocto1,61950.2Turtle DoveStreptopelia turtur621.9Ring-necked Parakeet (i)Psittacula krameri1183.7CuckooCuculus canorus64720.1Barn OwlTyto alba471.5Little Owl (i)Athene noctua732.3Tawny OwlStrix aluco1083.4Long-eared OwlAsio otus20.1Short-eared OwlAsio fammeus100.3SwiftApus apus1,04832.5KingfisherAlcedo atthis451.4Green WoodpeckerDendrocopos major1,52047.2Lesser Spotted WoodpeckerDendrocopos minor150.5ChoughPyrrhocorax pyrrhocorax70.2MagpiePica pica2,27270.5JayGarrulus glandarius99530.9JackdawCorvus corne2,84288.2Hooded CrowCorvus cornax40512.6GoldcrestRegulus regulus83525.9FirecrestRegulus regulus dari331.0Marsh TitPoecile montana331.0Marsh TitPoecile montana331.0Marsh TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitAlauta arvens				
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Ring-necked Parakeet (i)Psittacula krameri1183.7CuckooCuculus canorus $647$ 20.1Barn OwlTyto alba471.5Little Owl (i)Athene noctua732.3Tawny OwlStrix aluco1083.4Long-eared OwlAsio otus20.1Short-eared OwlAsio flammeus100.3SwiftApus apus1,04832.5KingfisherAlcedo atthis451.4Green WoodpeckerDendrocopos major1,52047.2Lesser Spotted WoodpeckerDendrocopos major150.5ChoughPyrthocorax pyrrhocorax70.2MagpiePica pica2,27270.5JayGarrulus glandarius99530.9JackdawCorvus monedula2,16667.2RookCorvus corane2,84288.2Hooded CrowCorvus corane2,84288.2Hooded CrowCorvus coran4051.26GoldcrestRegulus ignicapilla120.4Blue TitCyanistes caeruleus2,81087.2Great TitParus biarnicus40.1WoodlarkLulylan aborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1WoodlarkLullula arborea <td< td=""><td>Collared Dove</td><td></td><td></td><td>50.2</td></td<>	Collared Dove			50.2
CuckooCuculus canorus $647$ $20.1$ Barn OwlTyto alba $47$ $1.5$ Little Owl (i)Athene noctua $73$ $2.3$ Tawny OwlStrix aluco $108$ $3.4$ Long-eared OwlAsio otus $2$ $0.1$ Short-eared OwlAsio flammeus $10$ $0.3$ SwiftApus apus $1,048$ $32.5$ KingfisherAlcedo atthis $45$ $1.4$ Green WoodpeckerPicus viridis $956$ $29.7$ Great Spotted WoodpeckerDendrocopos major $1,520$ $47.2$ Lesser Spotted WoodpeckerDendrocopos minor $15$ $0.5$ ChoughPyrthocorax pyrthocorax $7$ $0.2$ MagpiePica pica $2,272$ $70.5$ JayGarrulus glandarius $995$ $30.9$ JackdawCorvus corone $2,842$ $88.2$ Hooded CrowCorvus corone $2,842$ $88.2$ Hooded CrowCorvus corona $405$ $12.6$ GoldcrestRegulus ignicapilla $12$ $0.4$ Bue TitCyanistes caeruleus $2,810$ $87.2$ Great TitParus major $2,720$ $84.4$ Crested TitLophophanes cristatus $5$ $0.2$ Coal TitPeriparus ater $1,053$ $32.7$ Willow TitPoecile montana $33$ $10$ Marsh TitPoecile montana $33$ $10$ Marsh TitPoecile palustris $172$ $5.3$ Bearded Tit				
Barn Owl         Tyto alba         47         1.5           Little Owl (i)         Athene noctua         73         2.3           Tawny Owl         Strix aluco         108         3.4           Long-eared Owl         Asio flammeus         10         0.3           Swift         Apus apus         1,048         32.5           Kingfisher         Alcedo atthis         45         1.4           Green Woodpecker         Picus viridis         956         29.7           Great Spotted Woodpecker         Dendrocopos major         1,520         47.2           Lesser Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrrhocorax pyrrhocorax         7         0.2           Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus corone         2,842         88.2           Hooded Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus corax         405         12.6           Goldcrest         Regulus ignicapilla         1				
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Kingfisher         Alcedo atthis         45         1.4           Green Woodpecker         Picus viridis         956         29.7           Great Spotted Woodpecker         Dendrocopos major         1,520         47.2           Lesser Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrrhocorax pyrrhocorax         7         0.2           Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus corone         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus regulus         835         25.9           Firecrest         Regulus regulus         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana <td></td> <td></td> <td></td> <td></td>				
Green Woodpecker         Picus viridis         956         29.7           Great Spotted Woodpecker         Dendrocopos major         1,520         47.2           Lesser Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrrhocorax pyrrhocorax         7         0.2           Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus corone         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus regulus         2,810         87.2           Great Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile palu				
Great Spotted Woodpecker         Dendrocopos major         1,520         47.2           Lesser Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrthocorax pyrthocorax         7         0.2           Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus frugilegus         1,540         47.8           Carrion Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile palustris         172         5.3           Bearded Tit         P				
Lesser Spotted Woodpecker         Dendrocopos minor         15         0.5           Chough         Pyrthocorax pyrthocorax         7         0.2           Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus fugilegus         1,540         47.8           Carrion Crow         Corvus corne         2,842         88.2           Hooded Crow         Corvus cornax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarmicus         4         0.1           Woodlark         Lullula arborea				
Magpie         Pica pica         2,272         70.5           Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus frugilegus         1,540         47.8           Carrion Crow         Corvus corne         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarmicus         4         0.1           Woodlark         Lullula arborea         19         <				
Jay         Garrulus glandarius         995         30.9           Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus frugilegus         1,540         47.8           Carrion Crow         Corvus corne         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarnicus         4         0.1           Woodlark         Lullua arborea         19         0.6           Skylark         Alauda arvensis         1,897		Pyrrhocorax pyrrhocorax		
Jackdaw         Corvus monedula         2,166         67.2           Rook         Corvus frugilegus         1,540         47.8           Carrion Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarmicus         4         0.1           Woodlark         Lullula arborea         19         0.6           Skylark         Alauda arvensis         1,897 <td></td> <td></td> <td></td> <td></td>				
Rook         Corvus frugilegus         1,540         47.8           Carrion Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus corone         2,842         88.2           Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Cyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Lophophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarmicus         4         0.1           Woodlark         Lullula arborea         19         0.6           Skylark         Alauda arvensis         1,897         58.9           Sand Martin         Riparia riparia         181 </td <td></td> <td></td> <td></td> <td></td>				
Carrion CrowCorvus corone2,84288.2Hooded CrowCorvus cornix1384.3RavenCorvus corax40512.6GoldcrestRegulus regulus83525.9FirecrestRegulus ignicapilla120.4Blue TitCyanistes caeruleus2,81087.2Great TitParus major2,72084.4Crested TitLophophanes cristatus50.2Coal TitPeriparus ater1,05332.7Willow TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,55147.5BlackcapSylvia atricapilla2,25870.1				
Hooded Crow         Corvus cornix         138         4.3           Raven         Corvus corax         405         12.6           Goldcrest         Regulus regulus         835         25.9           Firecrest         Regulus ignicapilla         12         0.4           Blue Tit         Gyanistes caeruleus         2,810         87.2           Great Tit         Parus major         2,720         84.4           Crested Tit         Laphophanes cristatus         5         0.2           Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarmicus         4         0.1           Woodlark         Lullula arborea         19         0.6           Skylark         Alauda arvensis         1,897         58.9           Sand Martin         Riparia riparia         181         5.6           Swallow         Hirundo rustica         2,412         74.9           House Martin         Delichon urbicum         1,033         32.1           Cetti's Warbler         Cettia cetti         3				
GoldcrestRegulus regulus83525.9FirecrestRegulus ignicapilla120.4Blue TitCyanistes caeruleus2,81087.2Great TitParus major2,72084.4Crested TitLophophanes cristatus50.2Coal TitPeriparus ater1,05332.7Willow TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus forchilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
FirecrestRegulus ignicapilla120.4Blue TitCyanistes caeruleus2,81087.2Great TitParus major2,72084.4Crested TitLophophanes cristatus50.2Coal TitPeriparus ater1,05332.7Willow TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
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Great TitParus major2,72084.4Crested TitLophophanes cristatus50.2Coal TitPeriparus ater1,05332.7Willow TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
Crested TitLophophanes cristatus50.2Coal TitPeriparus ater1,05332.7Willow TitPoecile montana331.0Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
Coal Tit         Periparus ater         1,053         32.7           Willow Tit         Poecile montana         33         1.0           Marsh Tit         Poecile palustris         172         5.3           Bearded Tit         Panurus biarnicus         4         0.1           Woodlark         Lullula arborea         19         0.6           Skylark         Alauda arvensis         1,897         58.9           Sand Martin         Riparia riparia         181         5.6           Swallow         Hirundo rustica         2,412         74.9           House Martin         Delichon urbicum         1,033         32.1           Cetti's Warbler         Cettia cetti         39         1.2           Long-tailed Tit         Aegithalos caudatus         1,223         38.0           Wood Warbler         Phylloscopus sibilatrix         42         1.3           Chiffchaff         Phylloscopus collybita         2,141         66.4           Willow Warbler         Phylloscopus trochilus         1,531         47.5           Blackcap         Sylvia atricapilla         2,258         70.1				
Marsh TitPoecile palustris1725.3Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1	Coal Tit			
Bearded TitPanurus biarmicus40.1WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
WoodlarkLullula arborea190.6SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
SkylarkAlauda arvensis1,89758.9Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
Sand MartinRiparia riparia1815.6SwallowHirundo rustica2,41274.9House MartinDelichon urbicum1,03332.1Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
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Cetti's WarblerCettia cetti391.2Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
Long-tailed TitAegithalos caudatus1,22338.0Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1	House Martin	Delichon urbicum	1,033	32.1
Wood WarblerPhylloscopus sibilatrix421.3ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
ChiffchaffPhylloscopus collybita2,14166.4Willow WarblerPhylloscopus trochilus1,53147.5BlackcapSylvia atricapilla2,25870.1				
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Blackcap Sylvia atricapilla 2,258 70.1				
		Sylvia atricapilla		
	Garden Warbler	Sylvia borin		16.3

Lesser WhitethroatSylvia curruca36311.3WhitethroatSylvia communis1,90259.0Dartford WarblerSylvia cumudata90.3Grasshopper WarblerAcrocephalus scheenobaenus37211.5Sedge WarblerAcrocephalus scirpaceus1745.4Marsh WarblerAcrocephalus scirpaceus1745.4WawningBombycilla garulus20.1NuthatchSitte europeaa71022.0TreecreeperCerthia familiaris44213.7Short-toed TreecreeperCerthia familiaris1,78355.3DipperCinclus cinclus280.9BlackbirdTurdus rurulus280.9BlackbirdTurdus prilaris2272.1RedwingTurdus pilaris220.7Song ThrushTurdus pilaris227.7RedwingTurdus viscivorus1,15235.8Spotted FlycatcherMusica gar striat1.47MistigaleLuscinia megaritynchos431.3Pied FlycatcherFrieddu hypoleuca331.0Black RedstartPhoenicurus ochruos10.0RedstartPhoenicurus ochruos10.0RedstartPhoenicurus poenicurus2446.3WhinchatSaxicola rubicola1033.2WhetataPraser montanus2.76685.8NightingaleLuscinia megaritynchos431.5StonechatSaxicola rubera <th>Species</th> <th>Scientific name</th> <th>Squares</th> <th>%</th>	Species	Scientific name	Squares	%
Whitethroat         Sylvia communis         1,902         59.0           Dartford Warbler         Sylvia undata         9         0.3           Grasshopper Warbler         Locustella naevia         178         5.5           Sedge Warbler         Acrocephalus schoenobaenus         372         11.5           Marsh Warbler         Acrocephalus schoenobaenus         372         10.0           Reed Warbler         Acrocephalus schoenobaenus         372         0.1           Nuthatch         Sitta europaea         710         22.0           Nuthatch         Sitta europaea         710         22.0           Short-toed Treecreeper         Certhia brachydactyla         1         0.0           Wren         Traglodytes traglodytes         2,796         86.8           Sitarling         Sturnus vulgaris         1,783         55.5           Sidekbird         Turdus merula         2,949         91.5           Fieldfare         Turdus piloiris         22         0.7           Song Thrush         Turdus piloirelos         2,322         72.1           Redving         Turdus siliacus         4         0.1           Mister Thrush         Turdus siliacus         4.3         1.3	-		-	
Dartford WarblerSylvia undata90.3Grasshopper WarblerLocustella nævia1785.5Sedge WarblerAcrocephalus scheenobaenus37211.5Marsh WarblerAcrocephalus scipraceus1745.4WaxwingBombycilla garrulus20.0NuthatchSita europaea71022.0TreecreeperCerthia familiaris44213.7Short-toed TreecreeperCerthia brachydatyla10.0WrenTroglodytes troglodytes2,79686.8StarlingSturnus vulgaris1,78355.3DipperCinclus cinclus601.9Ring OuzelTurdus torquatus280.9BlackbirdTurdus piloris2.20.7Song ThrushTurdus piloris2.27.21RedwingTurdus visciororus1,15235.8Nistle ThrushTurdus viscioraus1,15235.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFitcacurs achruros10.0RedstartPhoenicurus ochruros10.33.2WhinchatSoxicola ruberla4.663.31.0Black RedstartPhoenicurus ochruros10.33.2WheatearOenanthe oenanthe41412.83.2DunnockPuruella modularis2,46176.43.3Oreas parrowPasser domesticus1,90959.27.7Tree SparrowPasser domesticu				
Grasshopper Warbler         Locustella naevia         178         5.5           Sedge Warbler         Acrocephalus schoenobaenus         372         11.5           Marsh Warbler         Acrocephalus scinpaceus         174         5.4           Wawning         Bombycilla garulus         2         0.1           Nuthatch         Sitta europaea         710         22.0           Nuthatch         Sitta europaea         710         22.0           Treecreeper         Certhia brachydactyla         1         0.0           Wren         Troglodytes troglodytes         2,96         86.8           Sataling         Sturnus vulgaris         1,783         55.5           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus merula         2,949         91.5           Fieldfare         Turdus pilomelos         2,322         72.1           Redwing         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Etribacus rubecula         2,76         8.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Kagtart<				
Sedge Warbler         Acrocephalus schoenobaenus         372         11.5           Marsh Warbler         Acrocephalus schoenobaenus         1         0.0           Reed Warbler         Acrocephalus sciparecus         174         5.4           Waxwing         Bombycilla garrulus         2         0.1           Nuthatch         Sitto europæea         710         22.0           Treecreeper         Certhia brachydactyla         1         0.0           Wren         Troglodytes troglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         2         0.7           Redwing         Turdus philomelos         2,322         72.1           Redwing         Turdus scivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithaccus rubecula         2,766         85.8           Nightingale		/		
Marsh Warbler         Acrocephalus palustris         1         0.0           Reed Warbler         Acrocephalus scipraceus         174         5.4           Waxwing         Bombycilla garrulus         2         0.1           Nuthatch         Sitte europaea         710         22.0           Treecreeper         Certhia brachydactyla         1         0.0           Short-toed Treecreeper         Certhia brachydactyla         1         0.0           Wren         Traglodytes traglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         2.8         0.9           Song Thrush         Turdus piloris         2.2         0.7           Song Thrush         Turdus iliacus         4         0.1           Mistle Thrush         Turdus iliacus         4.3         1.3           Spotted Flycatcher         Misciaga striata         1.47         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchas         1         0.0           Redstart				
Reed Warbler         Acrocephalus scirpaceus         174         5.4           Waxwing         Bombycilla garulus         2         0.1           Nuthatch         Sitte europaea         710         22.0           Treecreeper         Certhia familiaris         442         13.7           Short-toed Treecreeper         Certhia brachydactyla         1         0.0           Wren         Troglodytes troglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         28         0.9           Ring Ouzel         Turdus torquatus         28         0.9           Song Thrush         Turdus pialiomelos         2,322         7.7           Song Thrush         Turdus pialiomelos         2,322         7.2           Redwing         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.5           Stonechat         Soxicola rubera         48         1.5           Stonechat <td></td> <td></td> <td></td> <td></td>				
Waxwing         Bombycilla garrulus         2         0.1           Nuthatch         Sitta europaea         710         22.0           Treecreeper         Certhia brachydatyla         1         0.0           Wren         Troglodytes troglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         0.7           Song Thrush         Turdus viscioraus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Redstart         Phoenicurus phoenicurus         204         6.3           Vhinchat         Saxicola rubica         103         3.2      Uwhatea         Oenanthe oenanthe				
NuthatchSitta europaea71022.0TreecreeperCerthia familiaris44213.7Short-toed TreecreeperCerthia familiaris44213.7Short-toed TreecreeperCerthia familiaris44210.0WrenTroglodytes troglodytes2,79686.8StarlingSturnus vulgaris1,78355.3DipperCinclus cinculus280.9BlackbirdTurdus torquatus280.9BlackbirdTurdus plains220.7Song ThrushTurdus philomelos2,32272.1RedwingTurdus iniacus40.1Mistle ThrushTurdus viscivorus1,15235.8Spotted FlycatcherMusciaga striata1474.6RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochuros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubicola1033.2StonechatSaxicola rubicola1033.2UnnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus2,0186.2GoldfinchCarduelis cannabina1,33641.5Grey WagtailMot				
Treecreeper         Certhia familiaris         442         13.7           Short-toed Treecreeper         Certhia brachydactyla         1         0.0           Wren         Troglodytes troglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         28         0.9           Blackbird         Turdus merula         2.949         91.5           Fieldfare         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         0.7           Song Thrush         Turdus viscirorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicra         48         1.5           Stonechat         Saxicola rubicra         103         3.2           Wheatear <td></td> <td></td> <td>710</td> <td>22.0</td>			710	22.0
Wren         Traglodytes traglodytes         2,796         86.8           Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         72.1           Redwing         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe onanthe         414         12.8           Dunnock         Prunella modularis         2,461         76.4           House Sparrow         Passer domesticus         1,909         59.2           Tree Sparrow	Treecreeper		442	
Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         0.7           Song Thrush         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe oenanthe         414         12.8           Dunnock         Punella modularis         2,46         7.64           Pied Wagtail         Motacilla flava         171         5.3           Gree Vagtail         Motacilla flava         171         5.3           Stonechat         Sax		Certhia brachydactyla	1	0.0
Starling         Sturnus vulgaris         1,783         55.3           Dipper         Cinclus cinclus         60         1.9           Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         0.7           Song Thrush         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe oenanthe         414         12.8           Dunnock         Punella modularis         2,46         7.64           Pied Wagtail         Motacilla flava         171         5.3           Gree Vagtail         Motacilla flava         171         5.3           Stonechat         Sax			2,796	86.8
Ring Ouzel         Turdus torquatus         28         0.9           Blackbird         Turdus pilaris         22         0.7           Song Thrush         Turdus pilaris         22         0.7           Mistle Thrush         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Lusainia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe cenanthe         414         12.8           Dunnock         Prunella modularis         2,461         76.4           House Sparrow         Passer montanus         238         7.4           Yellow Wagtail	Starling	Sturnus vulgaris		55.3
Blackbird         Turdus merula         2,949         91.5           Fieldfare         Turdus philomelos         2,322         72.1           Song Thrush         Turdus iliacus         4         0.1           Mistle Thrush         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus ochruros         1         0.0           Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe oenanthe         414         12.8           Dunnock         Prunella modularis         2,461         76.4           House Sparrow         Passer domesticus         1,909         59.2           Tree Sparrow         Passer domesticus         1,280         39.7           Yellow Wagtail         Motacilla flava         171         5.3           G	Dipper	Cinclus cinclus	60	1.9
Blackbird         Turdus merula         2,949         91.5           Fieldfare         Turdus philomelos         2,322         72.1           Song Thrush         Turdus iliacus         4         0.1           Mistle Thrush         Turdus viscivorus         1,152         35.8           Spotted Flycatcher         Muscicapa striata         147         4.6           Robin         Erithacus rubecula         2,766         85.8           Nightingale         Luscinia megarhynchos         43         1.3           Pied Flycatcher         Ficedula hypoleuca         33         1.0           Black Redstart         Phoenicurus ochruros         1         0.0           Redstart         Phoenicurus phoenicurus         204         6.3           Whinchat         Saxicola rubicola         103         3.2           Wheatear         Oenanthe oenanthe         414         12.8           Dunnock         Prunella modularis         2,461         76.4           House Sparrow         Passer domesticus         1,909         59.2           Tree Sparrow         Passer domesticus         1,280         39.7           Yellow Wagtail         Motacilla flava         171         5.3           G	Ring Ouzel	Turdus torquatus		0.9
Song ThrushTurdus philomelos2,32272.1RedwingTurdus iliacus40.1Mistle ThrushTurdus viscivorus1,15235.8Spotted FlycatcherMuscicapa striata1474.6RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubicola1033.2WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,28039.7Yellow WagtailMotacilla liava1715.3Grey WagtailMotacilla aiba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus patensis2,01862.6ColdfinchCarduelis canuelis2,25970.1SiskinCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5Cottish CrossbillLoxia scotica50.2BulfinchPyrrhula pyrthu		Turdus merula	2,949	91.5
RedwingTurdus iliacus40.1Mistle ThrushTurdus viscivorus1,15235.8Spotted FlycatcherMuscicapa striata1474.6RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubetra481.5StonechatSaxicola rubetra41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla diba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus patensis2,97292.2BramblingFringilla coelebs2,97292.2GreenfinchChloris chloris2,01862.6GoldfinchCarduelis canuelis2,25970.1SiskinCarduelis cannabina1,33641.5TwiteCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5Common CrossbillLoxia curviros	Fieldfare	Turdus pilaris		0.7
RedwingTurdus iliacus40.1Mistle ThrushTurdus viscivorus1,15235.8Spotted FlycatcherMuscicapa striata1474.6RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubietra481.5StonechatSaxicola rubicola1033.2WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,28039.7Yellow WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus patensis80725.0Rock PipitAnthus patensis2,01862.6GoldfinchCarduelis canuelis2,25970.1SiskinCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5TwiteCarduelis canabina1,32141.0Cirl BuntingEmberiza cirlus	Song Thrush	Turdus philomelos	2,322	72.1
Spotted FlycatcherMuscicapa striata1474.6RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus ochruros10.0RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubicola1033.2WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus pratensis80725.0Rock PipitAnthus pratensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla montifingilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis canduelis spinus2146.6LinnetCarduelis cabaret2036.3Common CrossbillLoxia cur	Redwing	Turdus iliacus	4	0.1
RobinErithacus rubecula2,76685.8NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubetra481.5StonechatSaxicola rubetra481.5WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,91959.2Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla cinerea1414.4Pied WagtailMotacilla colebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,25970.1SiskinCarduelis carduelis1,33641.5ChaffinchFringilla coelebs2,25970.1SiskinCarduelis falvirostris170.5Lesser RedpollCarduelis cannabina1,33641.5Common CrossbillLoxia scotica50.2BullfinchPyrrhula pyrthula84526.2YellowhammerEmberiza citinella1,32141.0Cirl BuntingEmberiza cirlinela1,32141.0Cirl Bunting	Mistle Thrush	Turdus viscivorus	1,152	35.8
NightingaleLuscinia megarhynchos431.3Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubetra481.5StonechatSaxicola rubetra481.5StonechatSaxicola rubetra41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus patensis80725.0Rock PipitAnthus patensis2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,25970.1SiskinCarduelis canabina1,33641.5TwiteCarduelis spinus2146.6LinnetCarduelis spinus2146.6LinnetCarduelis spinus170.5Lesser RedpollCarduelis cabaret2036.3Common CrossbillLoxia scotica50.2BullfinchPyrrhula pyrthula84526.2 <td>Spotted Flycatcher</td> <td>Muscicapa striata</td> <td>147</td> <td>4.6</td>	Spotted Flycatcher	Muscicapa striata	147	4.6
Pied FlycatcherFicedula hypoleuca331.0Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubetra481.5StonechatSaxicola rubetra481.5WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus prosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla corduelis2,25970.1SiskinCarduelis canuelis2,25970.1SiskinCarduelis flavirostris170.5Lesser RedpollCarduelis cabaret2036.3Cormon CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra30.1Reed BuntingEmberiza cirlus30.1Reed BuntingEmberiza cirlus30.1Reed BuntingEmberiza cirlus57	Robin	Erithacus rubecula	2,766	85.8
Black RedstartPhoenicurus ochruros10.0RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubetra481.5StonechatSaxicola rubetra481.5WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus patensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis canuelis2,25970.1SiskinCarduelis flavirostris170.5Lesser RedpollCarduelis cabaret2036.3Cormon CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra50.2BullfinchPyrrhula pyrthula84526.2YellowhammerEmberiza cirlus30.1Reed BuntingEmberiza cirlus57817.9Corn BuntingEmberiza cirlus <td< td=""><td></td><td>Luscinia megarhynchos</td><td>43</td><td>1.3</td></td<>		Luscinia megarhynchos	43	1.3
RedstartPhoenicurus phoenicurus2046.3WhinchatSaxicola rubicola1033.2StonechatSaxicola rubicola1033.2WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus pratensis80725.0Rock PipitAnthus pratensis80725.0Rock PipitAnthus pratensis2,01862.6GoldfinchFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis canduelis2,25970.1SiskinCarduelis flavirostris170.5Lesser RedpollCarduelis cabaret2036.3Common CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra30.1Reed BuntingEmberiza cirlnella1,32141.0Cirl BuntingEmberiza cirlnella1,394.3MithohPyrrhula pyrrhula84526.2YellowhammerEmberiza	Pied Flycatcher	Ficedula hypoleuca	33	1.0
WhinchatSaxicola rubetra481.5StonechatSaxicola rubicola1033.2WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus pratensis80725.0Rock PipitAnthus pratensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,25970.1SiskinCarduelis canuelis2,25970.1SiskinCarduelis cannabina1,33641.5TwiteCarduelis cabaret2036.3Common CrossbillLoxia scotica50.2BullfinchPyrrhula pyrthula84526.2 <td>Black Redstart</td> <td></td> <td></td> <td></td>	Black Redstart			
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WheatearOenanthe oenanthe41412.8DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla cinerea1414.4Pied WagtailMotacilla cinerea1524.7Meadow PipitAnthus trivialis1524.7Meadow PipitAnthus pratensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla coelebs2,01862.6GoldfinchCarduelis carduelis2,25970.1SiskinCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5LinnetCarduelis cabaret2036.3Common CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia scotica50.2BullfinchPyrthula pyrthula84526.2YellowhammerEmberiza cirlus30.1Reed BuntingEmberiza cirlus30.1Reed BuntingEmberiza calandra1394.3[Black Swan]Cygnus atratus20.1[Muscovy Duck]Cairina moschata20	Whinchat		48	
DunnockPrunella modularis2,46176.4House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla flava1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus pratensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis carduelis2,25970.1SiskinCarduelis carluelis2,25970.1SiskinCarduelis canabina1,33641.5TwiteCarduelis canabina1,33641.5TwiteCarduelis cabaret2036.3Common CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia scotica50.2BullfinchPyrthula pyrthula84526.2YellowhammerEmberiza cirlus30.1Reed BuntingEmberiza cirlus30.1Reed BuntingEmberiza calandra1394.3[Black Swan]Cygnus atratus20.1[Muscovy Duck]Cairina moschata20.1[Wood Duck]Aix sponsa20.1 <td></td> <td>Saxicola rubicola</td> <td></td> <td>3.2</td>		Saxicola rubicola		3.2
House SparrowPasser domesticus1,90959.2Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus protensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis carluelis2,25970.1SiskinCarduelis flavirostris170.5Lesser RedpollCarduelis cabaret2036.3Common CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra862.7BullfinchPyrrhula pyrthula84526.2YellowhammerEmberiza cirlus30.1Reed BuntingEmberiza cirlus30.1Reed BuntingEmberiza cirlus57817.9Corn BuntingEmberiza calandra1394.3[Black Swan]Gygnus atratus20.1[Muscovy Duck]Cairina moschata20.1[Mood Duck]Aix sponsa20.1 <td>Wheatear</td> <td></td> <td></td> <td></td>	Wheatear			
Tree SparrowPasser montanus2387.4Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus protensis80725.0Rock PipitAnthus petrosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis carduelis2,25970.1SiskinCarduelis carluelis2,25970.1SiskinCarduelis flavirostris170.5Lesser RedpollCarduelis cabaret2036.3Common CrossbillLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra50.2BullfinchPyrrhula pyrrhula84526.2YellowhammerEmberiza cirlus30.1Reed BuntingEmberiza cirlus57817.9Corn BuntingEmberiza calandra1394.3[Black Swan]Gygnus atratus20.1[Muscovy Duck]Cairina moschata20.1[Wood Duck]Aix sponsa20.1				
Yellow WagtailMotacilla flava1715.3Grey WagtailMotacilla cinerea1414.4Pied WagtailMotacilla alba1,28039.7Tree PipitAnthus trivialis1524.7Meadow PipitAnthus pratensis80725.0Rock PipitAnthus paterosus210.7ChaffinchFringilla coelebs2,97292.2BramblingFringilla montifringilla100.3GreenfinchChloris chloris2,01862.6GoldfinchCarduelis carduelis2,25970.1SiskinCarduelis cannabina1,33641.5TwiteCarduelis cannabina1,33641.5Lesser RedpollCarduelis flavirostris170.5Lesser RedpollLoxia curvirostra862.7Scottish CrossbillLoxia curvirostra862.7VellowhammerEmberiza citrinella1,32141.0Cirl BuntingEmberiza cirlus30.1Reed BuntingEmberiza calandra1394.3[Black Swan]Cygnus atratus20.1[Muscovy Duck]Cairina moschata20.1[Wood Duck]Aix sponsa20.1				
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	[Helmeted Guineafowl]	Numida meleagris	15	0.5
[Indian Peafowl (Peacock)] Pavo cristatus 36 1.1				
[Red-tailed Hawk] Buteo jamaicensis 1 0.0	[Red-tailed Hawk]	Buteo jamaicensis	1	0.0

- Squares: number of squares on which the species was recorded, also shown as a percentage of the total number of squares.
- Entirely non-native species with self-sustaining populations in the UK (BOU category C, if not also BOU category A) are followed by (i).
- Entirely non-native species that are not thought to have selfsustaining populations in the UK (BOU category E, if not also BOU category A or C) are shown in square brackets.
- Species with an asterisk (\*) are races or forms rather than full species.

# United Kingdom

The latest population trends of the UK's common and widespread birds are shown in Table 3 opposite, and interesting results are highlighted below.

Species recorded: This year we present population trends for 108 species, including Peregrine for the first time. UK population trends are calculated for species recorded on an average of at least 40 BBS squares per year, and we also include trends for Gadwall and Nightingale, which meet the criteria for reporting in England, and Pied Flycatcher, for which the sample size has declined from above the threshold.

Breeding waders showed marked declines between 2010 and 2011, and four waders reached their lowest level since the start of the survey: Oystercatcher, Lapwing, Snipe and Curlew. To see how Curlew populations have changed across the country see the maps on p5.

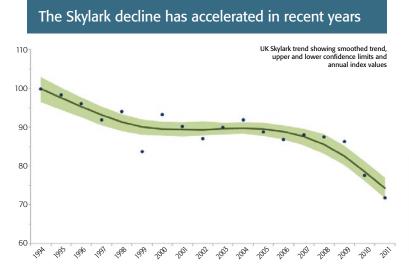
Ten species have declined by 50% or more since the start of the survey: Turtle Dove (-80%), Willow Tit (-79%), Wood Warbler (-65%), Whinchat (-57%), Grey Partridge (-55%), Nightingale (-52%), Yellow Wagtail (-50%), Pied Flycatcher (-50%), Spotted Flycatcher (-50%) and Starling (-50%).

2011 was a good year for arid-zone migrants, including Sand Martin, Whitethroat, Sedge Warbler, Redstart and Yellow Wagtail, all of which increased significantly between 2010 and 2011, possibly due to high levels of rainfall in the Sahel region of Africa.

Since the start of the BBS 31 species have declined significantly, and 43 have increased significantly, with the greatest increases shown by Ring-necked Parakeet (>1,000%), Red Kite (572%), Barn Owl (390%), Greylag Goose (168%) and Great Spotted Woodpecker (141%). There were 21 species that declined significantly between 2010 and 2011, and 14 that increased significantly.

Birds of Conservation Concern: The BBS monitors 20 red-listed species, of which 14 have declined significantly since the start of the survey, and three – Song Thrush, Grasshopper Warbler and Tree Sparrow – have increased significantly, following earlier severe declines. Of the 37 amber-listed species monitored, 11 have declined significantly, and 13 increased significantly.

Additional squares in English Uplands and Scottish Woodlands were included in trends for 49 woodland and upland species. Add-on squares were surveyed using the same methodology as standard BBS squares, and the difference in sampling methodology was accounted for in the trend calculations. Sample sizes for Red Grouse, Golden Plover, Snipe, Tree Pipit, Siskin and Common Crossbill were increased by more than 10% by these squares.





Whitethroats

increased by

and 20

For species-by-species results see the **BirdTrends website:** 

www.bto.org/birdtrends

## Table 3 UK population trends during 2010–11 and 1995–2010

Species	Sample	10–11	95–10	LCL	UCL	Species	Sample	10-11	95–10	LCL	UCL
Mute Swan	238	2	23	-2	67	Great Tit	2,101	0	46*	41	53
Greylag Goose	170	26	168*	15	435	Coal Tit	778	4	17*	4	33
Canada Goose	447	-18	73*	47	112	Willow Tit	51	-15	-79*	-86	-70
Shelduck	138	0	2	-47	68	Marsh Tit	143	7	-22*	-35	-7
Gadwall	35	-21	83*	5	225	Skylark	1,649	-7*	-20*	-25	-12
Mallard	1,229	9	20*	10	30	Sand Martin	123	32*	60*	0	167
Tufted Duck	147	-21	46*	6	98	Swallow	1,864	4	35*	26	45
Red Grouse	132	-7	5	-15	23	House Martin	901	15*	-2	-12	10
Red-legged Partridge	527	4	27*	14	43	Long-tailed Tit	913	-10*	27*	15	40
Grey Partridge	222	6	-55*	-64	-45	Wood Warbler	53	-14	-65*	-78	-44
Pheasant	1,712	1	35*	26	44	Chiffchaff	1,402	26*	70*	63	84
(Cormorant)	228	-5	30*	1	80	Willow Warbler	1,363	17*	3	-4	12
(Grey Heron)	636	-5	-3	-15	10	Blackcap	1,493	33*	102*	93	118
Little Grebe	67	-18	4	-22	51	Garden Warbler	435	-4	-9	-23	8
Great Crested Grebe	68	-9	9	-36	57	Lesser Whitethroat	262	2	8	-12	26
Red Kite	82	26	572*	253	1,325	Whitethroat	1,296	35*	43*	35	57
Sparrowhawk	340	-5	-7	-17	6	Grasshopper Warbler	79	78*	59*	12	117
Buzzard	882	1	75*	57	93	Sedge Warbler	289	16*	14	-4	42
Kestrel	635	-2	-32*	-41	-24	Reed Warbler	123	9	36*	13	64
Hobby	40	14	16	-17	65	Nuthatch	452	2	80*	61	101
Peregrine	44	4	-26	-51	13	Treecreeper	334	8	-1	-19	14
Moorhen	632	-22*	1	-6	12	Wren	2,356	-17*	-2	-6	4
Coot	258	-5	32*	11	67	Starling	1,705	-5	-50*	-54	-45
Oystercatcher	316	-19*	-14*	-23	-3	Dipper	57	1	-36*	-59	0
Golden Plover	61	10	-13	-37	8	Blackbird	2,379	-7*	23*	18	27
Lapwing	654	-18*	-32*	-40	-23	Song Thrush	1,909	-16*	13*	8	21
Snipe	156	-40*	23	-3	77	Mistle Thrush	1,146	-11	-28*	-34	-19
Curlew	500	-13*	-44*	-50	-37	Spotted Flycatcher	192	-9	-50*	-63	-35
Common Sandpiper	65	-14	-7	-33	20	Robin	2,281	-15*	10*	6	15
Redshank	82	3	-39*	-53	-17	Nightingale	31	149*	-52*	-66	-20
(Common Tern)	64	-8	13	-47	132	Pied Flycatcher	39	5	-50*	-67	-29
Feral Pigeon	660	-10	-13	-25	2	Redstart	155	19*	19*	1	35
Stock Dove	746	4	9	-1	23	Whinchat	74	1	-57*	-71	-40
Woodpigeon	2,368	-4	37*	30	45	Stonechat	150	-2	19*	2	74
Collared Dove	1,304	-2	23*	13	34	Wheatear	317	-10	3	-21	26
Turtle Dove	157	-35*	-80*	-84	-75	Dunnock	1,981	-11*	22*	16	28
Ring-necked Parakeet	56	4	1,012*	376	4,046	House Sparrow	1,539	3	-2	-9	6
Cuckoo	716	4	-49*	-54	-42	Tree Sparrow	166	16	96*	48	177
(Barn Owl)	43	-43*	390*	250	648	Yellow Wagtail	155	36*	-50*	-60	-38
Little Owl	97	-33*	-40*	-54	-24	Grey Wagtail	214	-37*	-15	-24	8
(Tawny Owl)	88	33	-23*	-39	-5	Pied Wagtail	1,219	-5	-11*	-19	-3
Swift	1,006	-17*	-38*	-46	-28	Tree Pipit	137	18	-5	-25	22
Kingfisher	52	-12	-33*	-49	-2	Meadow Pipit	778	2	-23*	-31	-15
Green Woodpecker	782	-8*	40*	29	52	Chaffinch	2,391	-1	12*	6	16
Gt Spotted Woodpecker	1,004	-5	141*	123	160	Greenfinch	1,737	-13*	-9*	-14	-2
Magpie	1,814	4	-2	-7	4	Goldfinch	1,503	8*	91*	78	106
Jay	728	-9*	15*	6	25	Siskin	160	8	55*	11	92
Jackdaw	1,613	9*	44*	30	61	Linnet	1,153	4	-21*	-30	-12
Rook	1,248	-3	-16*	-24	-6	Lesser Redpoll	155	19	32	-1	71
Carrion Crow	2,237	1	10*	1	19	Common Crossbill	55	26	68	0	153
Hooded Crow	130	-7	4	-20	53	Bullfinch	580	29*	6	-3	17
Raven	270	-5	0	-46	110	Yellowhammer	1,153	5	-15*	-22	-8
Goldcrest	740	6	-15	-26	4	Reed Bunting	463	-12*	24*	10	42
Blue Tit	2,229	0	7*	4	11	Corn Bunting	142	0	-34*	-48	-19

Trends are percentage changes, and are marked with an asterisk (\*) where the 95% confidence limits of the change do not overlap zero (indicating that there has been a significant change).
 Trends for species in brackets are reported with caveats (rea r2)

(see p7).

• The sample is the mean number of squares per year on which the species was recorded during 1994-2011.

• The trend since the start of the survey, covering the years 1994–2011, has been smoothed, and the end years truncated. This trend is labelled as 1995–2010.

• LCL and UCL are the lower and upper 95% confidence limits for the 1995-2010 trend.

Red-listed and amber-listed species from 'Birds of Conservation Concern 3' are shown in the relevant colour.

#### **TREND GRAPHS ONLINE:**

www.bto.org/bbs/graphs

# England

Stonechats increased by 7 1 0/0 in England between 2010 and 2011

England-specific trends are calculated for the 100 species found on an average of at least 30 BBS squares in England per year, shown in Table 4 opposite.

Species recorded: In total, 192 species were recorded on the 2,518 BBS squares surveyed in England in 2011. The most widespread birds were Woodpigeon, Blackbird and Carrion Crow. The average sample sizes for Little Egret, Common Sandpiper and Dipper were just below the threshold for reporting trends, so an increase in survey coverage or species range should allow England-specific trends to be produced for these species in the future.

A large proportion of the populations of most UK bird species are in England, so England-specific trends are generally similar to UK trends. Of the 100 species for which trends can be calculated, 30 have declined significantly, and 36 increased significantly, since the start of the survey.



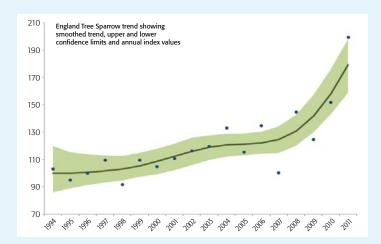
Redshank and Coot both declined significantly between 2010 and 2011 in England, by -33% and -13% respectively, but populations did not decline significantly in the UK overall.

Stonechat and Tree Sparrow both increased significantly between 2010 and 2011 in England, but not in the UK overall.

The most severe declines since the start of the survey have been shown by Turtle Dove (-81%), Willow Tit (-78%), Cuckoo (-63%), Starling (-55%) and Spotted Flycatcher (-55%). The greatest increases have been shown by Red Kite (>1,000%), Ring-necked Parakeet (>1,000%), Barn Owl (369%), Greylag Goose (234%) and Buzzard (153%).

Additional squares in English Uplands were included in trends for 18 upland species. Add-on squares were surveyed using the same methodology as standard BBS squares, and the difference in sampling methodology was accounted for in the trend calculations. Sample sizes for Red Grouse, Snipe, Raven, Whinchat, Stonechat, Wheatear and Siskin were increased by more than 10% by these squares, and without these additional squares it would not be possible to produce an England-specific trend for Whinchat.

#### Tree Sparrows increased significantly in England between 2010 and 2011





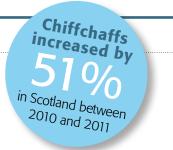
## Table 4 Trends in England during 2010–11 and 1995–2010

Nute Swan         2.03         2.         6         4-6         2-45         Creat Tit         1,6-66         -7.         11         3.5         3.0         11         5.0         5.1         12         5.5           Canda Goose         417         -17         6.5         5.1         0.0         7.0	Species	Sample	10–11	95–10	LCL	UCL	Species	Sample	10-11	95–10	LCL	UCL
Canada Goose         417         17         63*         34         103         1000000000000000000000000000000000000	Mute Swan	-		6	-16	26	•				35	46
Canada Goose         417         17         63*         34         103         1000000000000000000000000000000000000	Greylag Goose	140	23*	234*	102	474	Coal Tit	510	-5	31*	12	55
Gadwall         33         -21         79*         0         225         Skylark         1,313         1         -24*         93         90           Mallard         1,036         3         30*         3	Canada Goose	417	-17	63*	34	103	Willow Tit	45	-9	-78*	-86	-70
Mailand         1,036         3         30*         19         44         Sand Martin         79         63*         20         95         95           Murde Duck         128         20*         33         6         75         Swallow         1,40         3         37*         25         95           Red-leaged Partuidge         198         6         31         6         10         96         10         96         10         96         10         96         10         97         22*         10         37         28*         34         21         10         36         10*         96*         10         96*         10         11*         28*         34         21         10*         10*         10*         28*         34         21         10*         10*         10*         10*         28*         34         21         10*	Shelduck	113	1	35	-20	91	Marsh Tit	129	4	-24*	-40	-7
Mallard1,036330°10°4.4Sand Martin7.96.3°2.0°5.9Tarled Duck128-20°3367.5800001,440337"6.44.4Red-legged Partindge512421"10°58Long-tailed Tit8051.1°22"204.0Red-legged Partindge512421"10°58Chriftofff1.17921"22"3.47.1Pheasant1,447435"7.74.4Willow Warbler9.0011"-28"3.47.1(Cormorant)190-6194.37.4Garad Martin2532.24.47.17.8	Gadwall	33	-21	79*	0	225	Skylark	1,313	1	-24*	-29	-20
Intred Dack         128         74         7         6         73         95         Swallow         1,44         93         97         60           Red Grouse         74         7         6         31         20         House Martin         711         18         -14*         24         10         37           Grey Partidge         198         8         -52*         40         -40         Chiftchaff         1,78         31*         64*         43         22*         18         31*         64*         47         4         32*         44         20*         44         24*         32*         44         24*         33*         44         47         77         64*         47	Mallard	1,036	3	30*	19	43		79	63*	20	-25	55
Red-legged Partinge         512         4         21*         10         93           Grey Partinge         198         8         -52*         -0         -0         Chiffchaff         1,179         21*         69*         63         43         21           Grey Partinge         190         -6         19         -1         53         -2         -33         4         Blackap         7,28         33*         48*         40         10           (Grey Heron)         526         -2         -35         -4         -2         33         4         Blackap         7,28         33*         39*         34         9           Great Crested Grebe         62         -15         -15         32         18*         -16*         9         9         92         11         66         19*         10         33*         3         3         3         3         3         3         3         3         3         3         10         10         33*         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3         3	Tufted Duck		-20*	33	-6	75	Swallow	1,440	3	37*	25	50
Gray Parintage         198         8         -52         -60         -40         Chiftchaff         1,179         21*         66*         6         8           Pheasant         1,147         4         35*         27         44         Wildow Warbler         900         11*         32*         34         30*         34*         34*         35*         32*         34*         64*         33*         34*         34*         35*         32*         35*         32*         35*	Red Grouse	74	-7	-6	-31	20	House Martin	711	18*	-14*	-24	-1
Pheasant         1,447         4         35°         27         44         Willow Wabler         900         11°         -28°         34         21           (Cormorant)         190         -6         19         -1         51         Blackcap         1,278         31°         84°         78         30°         64°         78         31°         84°         78         30°         63         34         1000000000000000000000000000000000000	Red-legged Partridge	512	4	21*	10	36	Long-tailed Tit	805	-17*	22*	11	37
(Comorant)       190       -6       19       -1       51       Blackap       1,278       51*       64*       78       10         (Grey Heron)       526       -2       -8       20       4       Carden Warbler       533       -2       -16*       36       35         Great Crested Grebe       62       -15       -13       -37       18       42       185       20*       35*       39*       39       39       39       39       39       39       39       39       30*       39       30*      <	Grey Partridge	198	8	-52*	-60	-40	Chiffchaff	1,179	21*	69*	61	84
Garden Warbler       353       -2       -16*       28       3         Grap Meron)       526       -2       -8       20       4       -2       33       41         Little Crebe       53       -4       -2       33       41       Lesser Whitehroat       120       33*       39*       41       47         Great Crested Grebe       53       20*       9,598*       4,122       18*       47       1120       33*       39*       30*       58         Sparrowhawk       200       -8       -9       92       12*       10*       56*       66       -17*       23       40         Moorhen       566       6       -17*       23       40       70*       76*       76*       78*	Pheasant	1,447	4	35*	27	44	Willow Warbler	900	11*	-28*	-34	-21
Life Crebe       53       -4       -2       -53       -41       -25       -81       -13       -32       -13       -32       18         Creat Crested Grebe       62       -15       -13       -32       18       -4       -14       -17       -32       18         Red Kite       58       20°       9,598°       4,272       186       Gasshopper Warbler       36       74°       1       -36       56       56       57       20       18       Sedge Warbler       185       22°       4       18       -36       -26       10       -37       -36       -46       -16       10       -37       -38       -47       1       -36       -37       -36       -30       -37       -36       -36       -37       -36       -36       -37       -37       -36       -37 </td <td>(Cormorant)</td> <td>190</td> <td>-6</td> <td>19</td> <td>-1</td> <td>51</td> <td>Blackcap</td> <td>1,278</td> <td>31*</td> <td>84*</td> <td>78</td> <td>100</td>	(Cormorant)	190	-6	19	-1	51	Blackcap	1,278	31*	84*	78	100
Great Crested Grebe       62       -15       -13       -32       18         Red Kite       58       20'       9,598'       4.32       10.64         Sparrowhawk       200       8,9       9.72'       1       Grasshopper Warbler       165       74'       1       28       56         Buzzard       578       2       153'       100       19'       10'       33'       68       62         Kestrel       556       6       -17''       23       10'       Nuthatch       383       -1       82''       10''       10''       33'''       10'''       10''''       10''''''''''''''''''''''''''''''''''''	(Grey Heron)	526	-2	-8	-20	4	Garden Warbler	353	-2	-16*	-26	-3
Red Kite       58       20*       9,598*       4,322       1,645         Sparrowhawk       280       -8       -9       22       1         Sparrowhawk       280       56       6       173       70       33*       8       63         Kastel       576       6       177       72       74       73       74*       1       78       74*	Little Grebe	53	-4	-2	-33	41	Lesser Whitethroat	251	8	4	-14	17
Sparrowhawk         280         -8         -9         22         1           Buzzard         578         2         153         120         195           Kestrel         556         6         -17"         23         38           Hobby         39         16         21         -13         76           Moorhen         566         -22"         1         -9         11         Treecreeper         246         17         -6         -9         11           Moorhen         566         -22"         1         -9         44"         21         76           Oystercatcher         710         -9         44"         22         76         Blackbird         1,83         -5         21"         65         -55         -55         -56         -55         -56         -56         -55         -56 <t< td=""><td>Great Crested Grebe</td><td>62</td><td>-15</td><td>-13</td><td>-32</td><td>18</td><td>Whitethroat</td><td>1,120</td><td>33*</td><td>39*</td><td>31</td><td>50</td></t<>	Great Crested Grebe	62	-15	-13	-32	18	Whitethroat	1,120	33*	39*	31	50
Duzard         578         2         153*         120         195         Reed Warbler         117         10         33*         8         62           Kestrel         556         6         171*         37         36         Nuthatch         383         1         826         10         117         10         33*         8         62           Moorhen         586         22*         1         30*         5         58         757         758         757         758         758         758         758         758         758         758         758         758         758         758         759         759         759         759         759         759         759         759         759         759         759         759         759         759         759         759         750 <td>Red Kite</td> <td>58</td> <td>20*</td> <td>9,598*</td> <td>4,322</td> <td>11,654</td> <td>Grasshopper Warbler</td> <td>36</td> <td>74*</td> <td>1</td> <td>-28</td> <td>56</td>	Red Kite	58	20*	9,598*	4,322	11,654	Grasshopper Warbler	36	74*	1	-28	56
Kestrel         556         6         -17*         23         -8           Hobby         39         16         21         -13         76           Moorhen         566         -22*         1         -9         11           Solot         234         -13*         30*         5         58           Oystercatcher         170         -9         48*         21         76           Snipe         83         -45*         -13         34         12           Snipe         83         -45*         -13*         34         12           Curlew         318         -3         -3**         40         24           Starling         1,787         -12*         16*         22           Curlew         318         -3         -3**         40         24           Redshank         58         -3**         -5*         49           Redshank         58         -3**         -3*         40         24           Starling legoon         544         1         6*         1         22           Codropegoon         1,903         -4*         44*         55         55           <	Sparrowhawk	280	-8	-9	-22	1	Sedge Warbler	185	22*	4	-16	31
Hobby391621-1376Treccreeper24617-6-1911Moorhen586-22*1911Wren1,817-13*-163Coot234-13*30*558Staring1,398-5-5*6.360Oystercatcher170-948*24748Backbird1,817-13*15*6.022Lapwing544-21*-14*2444747474*-15*75*4.022Snipe83-33*-33*-53975591022Miste Thrush901-4-35*-65-37Redshank58-33*-33*-53975591020Nightingale30153*-49*4022Comornern)5927591020Nightingale30153*-49*4022Feral Pigeon548-1-20*299Nightingale30153*-49*4022Colaced Dave1,146-122*14313015*121342Colaced Davakeet55-44*44*3553Stonechat16821*12*1424Colacoo56013-63*45*5022Green Wagtail13228*-50*605	Buzzard	578	2	153*	120	195	Reed Warbler	117	10	33*	8	62
Moorhen586-22*1-911Wren1,817-13*-1-63Coot234-13*30*558Starling1,3985555*4840Oystercatcher170-948*2171601,883-5*5*21*16*21Snipe63-45*-13-3412Mistle Thrush901-4-35*-40-29Curlew318-3-31*-40246potted Flycatcher135-9-55*-45-45Redshank58-33*-53-4024Robin1,787-16*1221(Common Tem)592759-53-40Nghtingale33-35*-40*23Stock Dove68711-20*29-9Redstart6742*5-151216*12Collared Dove1,16*122*76516*1216*	Kestrel	556	6	-17*	-23	-8	Nuthatch	383	-1	82*	62	105
Coot       234       -13*       30*       5       58       Starling       1,398       -55       -55*       -56*       -57*       -56*       -56*       -57*       -56*       -57*       -56*       -57*       -66       -32         Sinpe       36       -35*       -35*       -31*       -40       -24       Spotted Flycatcher       135       -9       -55*       -65       -45       -45*	Hobby	39	16	21	-13	76	Treecreeper	246	17	-6	-19	11
Oystercatcher170-948*2176Blackbird1,883-5*21*1625Lapwing544-21*-14*-34450ng Thrush1,477-13*15*0022Snipe83-45*-13-3412Mistle Thrush901-4-55*-633Redshank58-33*-33*-53-9Robin1,787-12*16*1221(Common Tern)592759-10204Nightingale30153*-49*-6122Feral Pigeon548-1-20*299Redstart8740*52-1427Stock Dove687116821Whinchat32-19-474122Collared Dove1,16-122*1431Wheatear175-1512-1342Turtle Dove1,55-40*-81*-4570Dunnock1,607-8*17*1124-7Cuckoo5013-63*-67-60Terce Sparrow1,2696*-14*22-7-7-7444-74-10*-74<	Moorhen	586	-22*	1	-9	11	Wren	1,817	-13*	-1	-6	3
Lapving       544       -21*       -14*       -24       4       Song Thrush       1,477       -13*       15*       10       22         Snipe       83       -45*       -13       -34       12       Mistle Thrush       901       -4       -35*       -40       22         Curlew       318       -35       -31*       -40       24       Song Thrush       901       -4       -35*       -65       -43         Redshank       58       -33*       -33*       -33*       -33*       -40       24       Song Thrush       901       -4       -35*       -65       -43         (Common Tern)       59       27       59       -10       20       20       Redstart       87       42*       5       -44       27         Stock Dove       687       11       6       -8       21       Whinchat       32       -13*       12*       -14*       27         Stock Dove       1,616*       -1       22*       44       35       53       Stonechat       66       71*       27       -14       27         Uttle Dove       1,55       -4       1,012*       42*       710       010	Coot	234	-13*	30*	5	58	Starling	1,398	-5	-55*	-58	-50
Sinje       83       -45*       -13       -34       12       Mistle Thrush       901       -4       -35*       40       29         Curlew       318       -3       -31*       40       24       Spotted Flycatcher       135       -9       -55*       -65       -43         Redshank       58       -33*       -33*       -53       9       Robin       1,767       -12*       16*       12       21         (Common Tern)       59       27       59       -10       204       Nightingale       30       153*       -49*       -61       22         Feral Pigeon       548       -1       -20*       29       Redstart       87       42*       5       14       27         Stock Dove       667       11       6       -8       21       Whinchat       28       71*       27       -15       12       -13       20         Collared Dove       1,146       -1       22*       14       31       Wheatear       175       -15       12       -13       23         Goldred Parakeet       55       4       1,012*       425       7160       House Sparrow       1,269       6*       -	Oystercatcher	170	-9	48*	21	76	Blackbird	1,883	-5*	21*	16	25
Curlew318-3-31*-40-24Spotted Flycatcher135-9-55*-65-45Redshank58-33*-33*-33*-539Robin1,787-12*16*1221(Common Tern)592759-10204Nightingale30153*-49*-61-22Feral Pigeon548-1-20*299Redsart8742*55-1427Stock Dove687116-821Whinchat32-19-47*7315Woodpigeon1,903-4*44*3555Stonechat6871*27-1512-1342Collared Dove1,16-122*1431Wheatear175-1512-1342Cuckoo56013-63*-60-60-76-76Tree Sparrow1,266*-14*-22-7Cuckoo56013-63*-60-60-76-72-7443-75-76-72-74-74-73-1512-13-63*-64-64-25-76-72-74-74-74-74-76-74-74-74-76-74 <t< td=""><td>Lapwing</td><td>544</td><td>-21*</td><td>-14*</td><td>-24</td><td>-4</td><td>Song Thrush</td><td>1,477</td><td>-13*</td><td>15*</td><td>10</td><td>22</td></t<>	Lapwing	544	-21*	-14*	-24	-4	Song Thrush	1,477	-13*	15*	10	22
Redshank       58       -33*       -33*       -53       -9       Robin       1,787       -12*       16*       12       21         (Common Tern)       59       27       59       -10       204       Nightingale       30       153*       -49*       -61       -22         Feral Pigeon       548       -1       -20*       29       -9       Redstart       87       42*       5       -14       27         Stock Dove       687       11       6       -8       21       Whinchat       32       -19       -47*       7.5       -15       12       7.5         Collared Dove       1,146       -1       22*       14       31       Wheatear       175       -15       12       7.6         Cuckoo       560       13       -63*       -67       60       Tree Sparrow       1,43       31*       58*       19       105         (Barn Owl)       41       -39*       369*       249       628       Yellow Wagtail       152       38*       -50*       60       -66       -14*       22       77         Cuckoo       560       13       -63*       -67       29       Green Wagtail<	Snipe	83	-45*	-13	-34	12	Mistle Thrush	901	-4	-35*	-40	-29
Common Tern)       59       27       59       -10       204       Nightingale       30       153*       -49*       -60       -22         Feral Pigeon       548       -1       -20*       -29       -9       Redstart       87       42*       5       -14       27         Stock Dove       687       11       6       -8       21       Whinchat       32       -19       -47*       73       15         Woodpigeon       1,903       -4*       44*       55       53       Stonechat       68       71*       27       -15       12       -15       12       -15       12       -15       12       -13       42         Collared Dove       1,165       -40*       -81*       -84       75       Dunnock       1,607       -8*       17*       11       22       77         Cuckoo       560       13       -63*       -67       60       Tree Sparrow       1,269       6*       -14*       22       77         Cuckoo       560       13       -63*       -69       22       Gery Wagtail       152       38*       -50*       60       36       24       26       26       27	Curlew	318	-3	-31*	-40	-24	Spotted Flycatcher	135	-9	-55*	-65	-43
Feral Pigeon         548         -1         -20*         -29         -9         Redstrit         87         42*         5         -14         27           Stock Dove         687         11         6         -8         21         Whinchat         32         -19         -47*         -73         -15           Woodpigeon         1,903         -4*         44*         35         53         Stonechat         68         71*         27         -15         12         -13         42           Collared Dove         1,146         -1         22*         14         31         Wheatear         175         -15         12         -13         42           Collared Dove         1,55         -40*         -81*         -63*         -60         House Sparrow         1,607         -8*         17*         11         23           Ring-necked Parakeet         55         4         1,012*         42*         7         Tree Sparrow         1,81         31*         58         19         105           (Barn Owl)         41         -38*         -50         -22         Grey Wagtail         152         38         -46*         -4         25           Kingris	Redshank	58	-33*	-33*	-53	-9	Robin	1,787	-12*	16*	12	21
Stock Dove687116-821Whinchat32-19-47*7315Woodpigeon1,903-4*44*5553Stonechat6871*27151213Collared Dove1,16-122*1431Wheatear175-15121323Turtle Dove155-40*-81*8475Dunnock1,607-8*17*1123Ring-necked Parakeet5541,012*4257,16House Sparrow1,2696*-14*2277Cuckoo56013-63*676011638*50*6666(Barn Owl)41-39*369*2962Cree Wagtail11325*3-1474(Itawny Owl)7527-14-3414Pied Wagtail930-2-11*-174Swift870-14*-38*4729Tree Pipit7328-46*-64-5Kingfisher46-5-26-439Meadow Pipit4211-16*-28-2Gotspotted Woodpecker75848*3660Gldfinch1,843-212*816Gt Spotted Woodpecker1,5210-38220Siskin55-1150-2017*Jax daw1,2218-18<	(Common Tern)	59	27	59	-10	204	Nightingale	30	153*	-49*	-61	-22
Woodpigeon1,903-4*44*3553Stonechat6871*27-151214Collared Dove1,146-122*1431Wheatear175-1512-1342Turtle Dove155-40*-81*-84-75Dunnock1,607-8*17*1123Ring-necked Parakeet5541,012*4257,160House Sparrow1,2696*-14*-22-7Cuckoo56013-63*-67-60Tree Sparrow1,4131*58*19105(Barn Owl)41-39*369*249628Yellow Wagtail15238*-50*-60-36Little Owl94-22*-74-3414-2277-11*-14-22-77Cawny Owl)7527-14-3414-26-14*-22-13*-66-64-55Kingfisher46-5-26-439Meadow Pipit211-16*-28-2Green Woodpecker725-8*48*3660Chaffinch1,843-212*4816Jay629-58-220-16*-13*-8*-13-1042Jakdaw1,29213*49*3861-16*-14*-20-17*-14-20Rook9100 <td< td=""><td>Feral Pigeon</td><td>548</td><td>-1</td><td>-20*</td><td>-29</td><td>-9</td><td>Redstart</td><td>87</td><td>42*</td><td>5</td><td>-14</td><td>27</td></td<>	Feral Pigeon	548	-1	-20*	-29	-9	Redstart	87	42*	5	-14	27
Collared Dove       1,146       -1       22*       14       31         Turtle Dove       155       -40*       -81*       -84       -75         Ring-necked Parakeet       55       4       1,012*       425       7,160         Cuckoo       560       13       -63*       -67       -60         (Barn Owl)       41       -39*       369*       249       628         (Barn Owl)       41       -39*       369*       249       628         (Ittle Owl       94       -29*       -38*       -50       22         (Tawny Owl)       75       27       -14       -34       14         Swift       870       -14*       -38*       -47       -29         Kingfisher       46       -5       -26       -43       9         Green Woodpecker       725       -8*       48*       36       60         Gt Spotted Woodpecker       876       -5       122*       106       140         Magpie       1,521       0       -3       -8       2         Jackdaw       1,292       13*       49*       38       61         Gooldrest       1847	Stock Dove	687	11	6	-8	21	Whinchat	32	-19	-47*	-73	-15
Turtle Dove       155       -40*       -81*       -84       -75         Ring-necked Parakeet       55       4       1,012*       425       7,160         Cuckoo       560       13       -63*       -67       -60         (Barn Owl)       41       -39*       369*       249       628       Tree Sparrow       134       31*       58*       19       105         (Barn Owl)       41       -39*       369*       249       628       7160       716       78       78*       79*       600       76       76*       70*       76*       70*       76*       70*       76*       70*       76*       70*       72*       714       73*       78*       70*       74*         Swift       870       -14*       -38*       -47       29       76*       76*       72*       74       74         Swift       870       -14*       -38*       -47       29       76*       78*       74       79       74         Swift       870       -14*       -38*       47*       79       79       70*       74*       74       75*       74       74       75*       74*       74<	Woodpigeon	1,903	-4*	44*	35	53	Stonechat	68	71*	27	-15	120
Ring-necked Parakeet5541,012*4257.160Cuckoo56013-63*-67-60(Barn Owl)41-39*369*249628(Ittle Owl94-29*-38*-50*22(Tawny Owl)7527-14-3414Swift870-14*-38*-4729Kingfisher46-5-26-439Careen Woodpecker725-8*48*3660Green Woodpecker725-8*48*3660Gt Spotted Woodpecker75122*106140Magpie1,5210-328-46*-13*Jay629-58-220Kackdaw990-8-11*5020Raven1,847-117*927Goldcrest5865-732828*Goldcrest585-32-8026Feed Bunting34986131-10A-2-3420-11*-16*A-3-3-3-3-3A-4-3-3-3A-4-4-3-3A-5-3-3-3A-4-3-1A-4-3-1A-5-3-3-3A-4-3 <td>Collared Dove</td> <td>1,146</td> <td>-1</td> <td>22*</td> <td>14</td> <td>31</td> <td>Wheatear</td> <td>175</td> <td>-15</td> <td>12</td> <td>-13</td> <td>42</td>	Collared Dove	1,146	-1	22*	14	31	Wheatear	175	-15	12	-13	42
Cuckoo56013-63*-67-6013431*58*19105(Barn Owl)41-39*369*2496287236*-50*6-036*Little Owl94-29*-38*-5022Grey Wagtail143-25*3-1426(Tawny Owl)7527-14-3414-29Free Pipit7328-46*-6425Kingfisher46-5-26-439Meadow Pipit4211-16*2822Green Woodpecker725-8*48*3660Chaffinch1,843-212*816Gt Spotted Woodpecker75122*106140Chaffinch1,465-13*-8*13-1Magpie1,5210-3-820Siskin55-11502017*Jav629-58-220Siskin55-11502017*Jav629-58-185-11502017*Rook9910-8-185-11502017*Raven1155-32-8028281426Goldcrest5186572826483426Reed Bunting349-828282828273420	Turtle Dove	155	-40*	-81*	-84	-75	Dunnock	1,607	-8*	17*	11	23
(Barn Owl)       41      39*       369*       249       628         (Barn Owl)       94      29*       -38*       -50       -22         (Tawny Owl)       75       27       -14       -34       14         Swift       870       -14*       -38*       -47       -29       Meadow Pipit       421       1       -16*       -28       -2         Kingfisher       46       -5       -26       -43       9       Meadow Pipit       421       1       -16*       28       -2         Green Woodpecker       725       -8*       48*       36       60       Chaffinch       1,843       -2       12*       8       16         Gt Spotted Woodpecker       876       -5       122*       106       140       Greenfinch       1,465       -13*       -8*       -13       -1         Magpie       1,521       0       -3       -8       2       Coldfinch       1,243       11*       82*       70       95       95       91       90       93       61       31       -10       -4         Magpie       1,521       0       -3       8       2       20       55 <t< td=""><td>Ring-necked Parakeet</td><td>55</td><td>4</td><td>1,012*</td><td>425</td><td>7,160</td><td>House Sparrow</td><td>1,269</td><td>6*</td><td>-14*</td><td>-22</td><td>-7</td></t<>	Ring-necked Parakeet	55	4	1,012*	425	7,160	House Sparrow	1,269	6*	-14*	-22	-7
Cittle Owl94-29*-38*-5022(Tawny Owl)7527-14-3414Swift870-14*-38*-47-29Kingfisher46-5-26-439Green Woodpecker725-8*48*3660Gt Spotted Woodpecker876-5122*106140Magpie1,5210-3-82<Jackdaw1,29213*49*3861Rook9910-8-185Carrion Crow1,847-1117*927Raven1155-32-80286Goldcrest51865725	Cuckoo	560		-63*	-67	-60	Tree Sparrow	134	31*	58*	19	105
(Tawny Owl)       75       27       -14       -34       14       Pie Wagtail       930       -2       -11*       -17       -4         Swift       870       -14*       -38*       -47       -29       Tree Pipit       73       28       -46*       -64       -25         Kingfisher       46       -5       -26       -43       9       Meadow Pipit       421       1       -16*       -28       -2         Green Woodpecker       725       -8*       48*       36       60       Chaffinch       1,843       -2       12*       8       16         Gt Spotted Woodpecker       876       -5       122*       106       140       Greenfinch       1,465       -13*       -8*       -13       -1         Magpie       1,521       0       -3       -8       2       Goldfinch       1,465       -13*       80*       -10       95         Jackdaw       1,292       13*       49*       38       61       Linnet       934       7       -27*       -34       -20         Rook       991       0       -8       -18       5       Lesser Redpoll       61       31       -10       -48<	(Barn Owl)	41		369*	249	628	0.00	152	38*	-50*	-60	-36
Swift         870         -14*         -38*         -47         -29         Tree Pipit         73         28         -46*         -64         -25           Kingfisher         46         -5         -26         -43         9         Meadow Pipit         421         1         -16*         -28         -2           Green Woodpecker         725         -8*         48*         36         60         Chaffinch         1,843         -2         12*         8         16           Gt Spotted Woodpecker         876         -5         122*         106         140         Greenfinch         1,465         -13*         -8*         -13         -1           Magpie         1,521         0         -3         -8         2         Goldfinch         1,243         11*         82*         70         95           Jay         629         -5         8         -2         20         Siskin         55         -11         50         -20         174           Jackdaw         1,292         13*         49*         38         61         Linnet         934         7         -27*         -34         -20           Rook         991         0	Little Owl	94	-29*	-38*	-50	-22		143	-25*		-14	26
Kingfisher46-5-26-439Meadow Pipit4211-16*2828Green Woodpecker725-8*48*3660Chaffinch1,843-212*816Gt Spotted Woodpecker876-5122*106140Greenfinch1,465-13*-8*-13-1Magpie1,5210-3-8220Goldfinch1,24311*82*7095Jay629-58-220Siskin55-1150-20174Jackdaw1,29213*49*3861Linnet9347-27*-34-20Rook9910-8-185Lesser Redpoll6131-10-4854Goldcrest51865-32-80286Yellowhammer1,0060-23*27-18Goldcrest51865-725Reed Bunting349-828*1349	(Tawny Owl)	75			-34	14	-		-2		-17	-4
Green Woodpecker         725        8*         48*         36         60         Chaffinch         1,843        2         12*         8         16           Gt Spotted Woodpecker         876         -5         122*         106         140         Greenfinch         1,843         -2         12*         8         13         -1           Magpie         1,521         0         -3         -8         2         Goldfinch         1,243         11*         82*         70         95           Jay         629         -5         8         -2         20         Siskin         55         -11         50         -20         71*           Jackdaw         1,292         13*         49*         38         61         Linnet         934         77         -27*         -34         -20           Rook         991         0         -8         -18         5         Lesser Redpoll         61         31         -10         -48         54           Carrion Crow         1,847         -1         17*         9         27         Bullfinch         446         13*         2         -8         14           Raven         115         5	Swift			-38*	-47	-29			28		-64	-25
Gt Spotted Woodpecker       876       -5       122*       106       140       Greenfinch       1,465       -13*       -8*       -13	•				-43	9					-28	-2
Magpie         1,521         0         -3         -8         2         Goldfinch         1,243         11*         82*         70         95           Jay         629         -5         8         -2         20         Siskin         55         -11         50         -20         174           Jackdaw         1,292         13*         49*         38         61         Linnet         934         7         -27*         -34         20           Rook         991         0         -8         -18         5         Lesser Redpoll         61         31         -10         -48         54           Carrion Crow         1,847         -1         17*         9         27         Bullfinch         446         13*         2         -8         14           Raven         115         5         -32         -80         28*         Yellowhammer         1,006         0         -23*         -27         -18           Goldcrest         518         6         5         7         25         Reed Bunting         349         349         349         349         349					36	60					8	16
And Constraints       And Constraints	Gt Spotted Woodpecker	876	-5	122*	106	140		1,465	-13*	-8*	-13	-1
Jackdaw1,29213*49*3861Linnet9347-27*-34-20Rook9910-8-185Lesser Redpoll6131-10-4854Carrion Crow1,847-117*927Bullfinch44613*2-814Raven1155-32-80286Yellowhammer1,0060-23*-27-18Goldcrest51865-725Reed Bunting349-828*1342	Magpie		0	-3	-8	2		1,243	11*	82*	70	95
Rook         991         0         -8         -18         5         Lesser Redpoll         61         31         -10         -48         54           Carrion Crow         1,847         -1         17*         9         27         Bullfinch         446         13*         2         -8         14           Raven         115         5         -32         -80         286         Yellowhammer         1,006         0         -23*         -27         -18           Goldcrest         518         6         5         -7         25         Reed Bunting         349         -8         28*         13         42	Jay			8	-2	20					-20	174
Carrion Crow       1,847       -1       17*       9       27       Bullfinch       446       13*       2       -8       14         Raven       115       5       -32       -80       286       Yellowhammer       1,006       0       -23*       -27       -18         Goldcrest       518       6       5       -7       25       Reed Bunting       349       -8       28*       13       42	Jackdaw				38						-34	-20
Raven         115         5         -32         -80         286         Yellowhammer         1,006         0         -23*         -27         -18           Goldcrest         518         6         5         -7         25         Reed Bunting         349         -8         28*         13         42	Rook		0		-18	5				-10	-48	54
Goldcrest         518         6         5         -7         25         Reed Bunting         349         -8         28*         13         42	Carrion Crow		-1		9	27			13*		-8	14
	Raven		5	-32	-80	286			0		-27	-18
Blue Tit 1,798 1 6* 1 10 Corn Bunting 136 -2 -31* -46 -15	Goldcrest	518	6		-7	25	_	349	-8		13	42
	Blue Tit	1,798	1	6*	1	10	Corn Bunting	136	-2	-31*	-46	-15

- Trends are percentage changes, and are marked with an asterisk (\*) where the 95% confidence limits of the change do not overlap zero (indicating that there has been a significant change).
   Trends for species in brackets are reported with caveats (rea 27)
- (see p7).
- The sample is the mean number of squares per year on which the species was recorded during 1994–2011.
- The trend since the start of the survey, covering the years 1994–2011, has been smoothed, and the end years truncated. This trend is labelled as 1995–2010.
- LCL and UCL are the lower and upper 95% confidence limits for the 1995–2010 trend. Red-listed and amber-listed species from 'Birds of
- Conservation Concern 3' are shown in the relevant colour.



# Scotland



Scotland-specific trends are calculated for the 60 species found on an average of at least 30 BBS squares in Scotland per year, shown in Table 5 opposite.

Species recorded: In total, 156 species were recorded on the 358 BBS squares surveyed in Scotland in 2011. The most widespread birds were Chaffinch, Willow Warbler and Woodpigeon. The average sample sizes for Long-tailed Tit and Sand Martin were just below the threshold for reporting trends, so an increase in survey coverage or species range should allow Scotland-specific trends to be produced for these species in the future.



Of the 60 species for which trends can be calculated, eight have declined significantly, and 16 increased significantly, since the start of the survey.

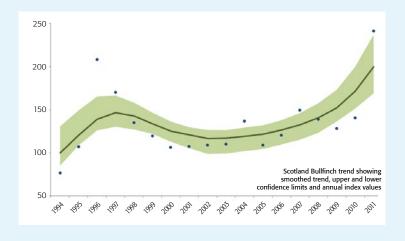
Birds that declined in Scotland between 2010 and 2011 included Kestrel, Skylark, House Martin, Mistle Thrush, Grey Wagtail and Reed Bunting.

Bullfinch increased the most in Scotland between 2010 and 2011. Four warbler species also showed large increases: Chiffchaff, Willow Warbler, Blackcap and Whitethroat.

The most severe declines since the start of the survey have been shown by Kestrel (-64%), Curlew (-55%), Lapwing (-48%), Swift (-39%) and Starling (-37%). The greatest increases have been shown by Chiffchaff (336%), Great Spotted Woodpecker (312%), Blackcap (264%), Goldfinch (133%) and Whitethroat (121%).

Additional squares in Scottish Woodlands were included in trends for 22 woodland species. Add-on squares were surveyed using the same methodology as standard BBS squares, and the difference in sampling methodology was accounted for in the trend calculations. Sample sizes for Great Spotted Woodpecker, Goldcrest, Coal Tit, Chiffchaff, Blackcap, Treecreeper, Mistle Thrush, Tree Pipit, Siskin, Lesser Redpoll and Bullfinch were increased by more than 10% by these squares, and without these additional squares it would not be possible to produce a Scotland-specific trend for Tree Pipit.

Bullfinch numbers increased significantly in Scotland between 2010 and 2011





# SULLFINCHES BY JOHN HARDING, REED BUNTING BY AMY LEWIS

## Table 5 Trends in Scotland during 2010–11 and 1995–2010

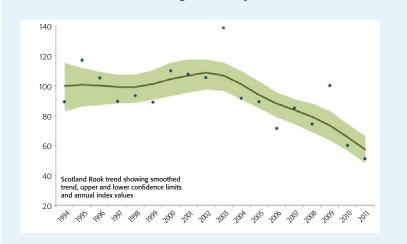
Species	Sample	10–11	95–10	LCL	UCL	Species	Sample	10-11	95–10	LCL	UCL
Mallard	96	28	-11	-32	11	House Martin	60	-26	104*	35	213
Red Grouse	52	6	-1	-28	21	Chiffchaff	45	51*	336*	170	647
Pheasant	127	-3	18	-2	45	Willow Warbler	209	23*	33*	14	52
(Grey Heron)	48	-5	8	-24	50	Blackcap	55	27*	264*	145	456
Buzzard	138	-7	33*	4	75	Whitethroat	76	41*	121*	57	208
Kestrel	41	-27	-64*	-78	-39	Sedge Warbler	53	17	36	-14	105
Oystercatcher	125	-22*	-29*	-39	-13	Treecreeper	36	-2	1	-39	45
Golden Plover	38	22	-21	-51	3	Wren	220	-17	-1	-6	20
Lapwing	87	-14	-48*	-62	-33	Starling	143	4	-37*	-51	-21
Snipe	55	-39*	30	-4	98	Blackbird	192	-13*	27*	8	52
Curlew	119	-20	-55*	-66	-44	Song Thrush	172	-20*	4	-13	28
Common Sandpiper	30	-16	-4	-30	37	Mistle Thrush	75	-28	-8	-37	45
Feral Pigeon	61	-33*	11	-31	87	Robin	193	-13	6	-8	19
Woodpigeon	192	-1	0	-20	22	Stonechat	33	7	-1	-18	132
Collared Dove	49	-11	-7	-37	34	Wheatear	78	-3	6	-22	48
Cuckoo	72	9	-5	-27	17	Dunnock	137	-8	56*	30	91
Swift	49	-36	-39*	-66	-6	House Sparrow	90	-12	40*	3	87
Gt Spotted Woodpecker	46	-15	312*	190	546	Grey Wagtail	28	-30	-16	-47	55
Magpie	45	25	13	-26	68	Pied Wagtail	126	-12	-15	-34	2
Jackdaw	111	9	29	0	63	Tree Pipit	32	27	72*	16	126
Rook	108	-15	-35*	-49	-11	Meadow Pipit	199	1	-32*	-42	-23
Carrion Crow	181	6	-6	-29	21	Chaffinch	235	-3	15*	3	32
Hooded Crow	50	-18	-21	-49	33	Greenfinch	101	-8	-14	-33	10
Raven	43	-13	59	-10	161	Goldfinch	85	-7	133*	52	237
Goldcrest	91	20	-14	-34	26	Siskin	72	7	52*	4	113
Blue Tit	162	-8	9	-9	22	Linnet	87	13	8	-27	40
Great Tit	147	5	48*	25	76	Lesser Redpoll	45	28	26	-17	93
Coal Tit	127	6	3	-15	27	Bullfinch	39	72*	42	-6	90
Skylark	202	-25*	-9	-22	10	Yellowhammer	102	26	26	-6	55
Swallow	166	-3	41*	15	74	Reed Bunting	56	-27	31	-2	82

• Trends are percentage changes, and are marked with an asterisk (\*) where the 95% confidence limits of the change do not overlap zero (indicating that there has been a significant change). • Trends for species in brackets are reported with caveats

- (see p7).
- The sample is the mean number of squares per year on which the species was recorded during 1994-2011.
- The trend since the start of the survey, covering the years 1994–2011, has been smoothed, and the end years truncated. This trend is labelled as 1995–2010.
- LCL and UCL are the lower and upper 95% confidence limits for the 1995–2010 trend. Red-listed and amber-listed species from 'Birds of
- Conservation Concern 3' are shown in the relevant colour.

**TREND GRAPHS ONLINE:** 

www.bto.org/bbs/graphs

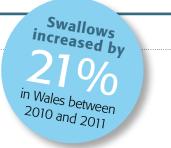


Rooks have declined significantly in Scotland since the start of the BBS



**ROOK BY JOHN HARDING** 

# Wales



Wales-specific trends are calculated for the 53 species found on an average of at least 30 BBS squares in Wales per year, shown in Table 6 opposite.

Species recorded: In total, 129 species were recorded on the 221 BBS squares surveyed in Wales in 2011. The most widespread birds were Carrion Crow, Chaffinch and Blackbird. The average sample sizes for Stock Dove and Reed Bunting were just below the threshold for reporting trends, so an increase in survey coverage or species range should allow Wales-specific trends to be produced for these species in the future.

Of the 53 species for which trends can be calculated, seven have declined significantly, and 17 increased significantly, since the start of the survey.

2011 was a good year for Skylark, Swallow and Meadow Pipit in Wales, which all showed significant increases not seen in the UK as a whole. House Sparrows have now increased by more than 100% in Wales since the start of the survey.

The most severe declines since the start of the survey have been shown by Starling (-67%), Swift (-57%), Curlew (-54%), Goldcrest (-51%) and Yellowhammer (-40%). The greatest increases have been shown by Great Spotted Woodpecker (192%), Blackcap (114%), Stonechat (106%), House Sparrow (106%) and Goldfinch (71%).

# Northern Ireland

Northern Ireland trends are calculated for the 32 species found on an average of at least 30 BBS squares in Northern Ireland per year, shown in Table 7 opposite. This includes trends for Blackcap and Bullfinch for the first time this year.

Species recorded: In total, 105 species were recorded on the 110 BBS squares surveyed in Northern Ireland in 2011. The most widespread birds were Chaffinch, Woodpigeon and Carrion Crow. Of the 32 species for which trends can be calculated, 13 have increased significantly since the start of the survey, and one, Skylark, has declined significantly.

Goldcrest, Pied Wagtail, Meadow Pipit and Linnet all declined significantly in Northern Ireland between 2010 and 2011; these declines were not seen in the UK as a whole.

The most severe declines since the start of the survey have been shown by Skylark (-43%), Meadow Pipit (-21%), Mistle Thrush (-12%), Reed Bunting (-12%) and Rook (-5%). The greatest increases have been shown by Blackcap (>1,000%), Goldfinch (773%), Great Tit (169%), Pheasant (159%) and Willow Warbler (109%).

# Isle of Man and the Channel Islands

No BBS squares were surveyed in the Isle of Man in 2011. Fifteen squares were covered on the Channel Islands in 2011, and 73 species were recorded.



## Table 6 Trends in Wales during 2010–11 and 1995–2010

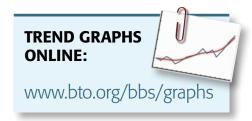
Species	Sample	10–11	95–10	LCL	UCL	Species	Sample	10–11	95–10	LCL	l
Mallard	64	-2	-9	-49	55	Willow Warbler	155	11	-2	-21	
Pheasant	89	-10	46*	1	103	Blackcap	116	43*	114*	80	
(Grey Heron)	42	-39	-22	-44	8	Garden Warbler	56	11	-10	-43	
Buzzard	137	10	4	-13	32	Whitethroat	80	37*	6	-14	
Curlew	35	-15	-54*	-69	-38	Nuthatch	68	20	52*	13	
Feral Pigeon	32	8	38	-13	82	Treecreeper	39	11	6	-34	
Woodpigeon	181	-14	41*	18	69	Wren	189	-15*	-11*	-21	
Collared Dove	70	-19*	52*	7	117	Starling	79	-13	-67*	-77	
Cuckoo	56	-23	-34*	-51	-17	Blackbird	190	-4	42*	28	
Swift	64	-37*	-57*	-71	-33	Song Thrush	162	-15*	17*	5	
Green Woodpecker	46	-15	-9	-35	23	Mistle Thrush	97	-13	-1	-24	
Gt Spotted Woodpecker	72	7	192*	117	283	Robin	186	-24*	-9	-16	
Magpie	156	0	-9	-22	2	Redstart	55	13	27	-3	
Jay	69	-31*	40*	6	79	Stonechat	34	-16	106*	11	
Jackdaw	134	-10	31	-9	104	Wheatear	50	-26	-16	-36	
Rook	77	-24	-16	-41	24	Dunnock	146	-22*	30*	11	
Carrion Crow	195	0	2	-14	19	House Sparrow	118	8	106*	66	
Raven	86	-16	22	-28	120	Pied Wagtail	111	21	-11	-29	
Goldcrest	78	37	-51*	-70	-22	Tree Pipit	31	-18	-26	-52	
Blue Tit	171	13	21*	5	39	Meadow Pipit	84	29*	-13	-24	
Great Tit	165	8	60*	35	91	Chaffinch	192	5	-4	-21	
Coal Tit	70	18	1	-27	45	Greenfinch	110	-21*	-3	-25	
Skylark	100	38*	-15	-34	2	Goldfinch	122	9	71*	35	
Swallow	165	21*	26*	4	50	Linnet	89	-15	-30	-51	
House Martin	84	37	8	-26	47	Bullfinch	61	55*	-8	-31	
Long-tailed Tit	57	-31*	11	-20	49	Yellowhammer	35	-24	-40*	-58	
Chiffchaff	132	37*	50*	25	78						

# Table 7 Trends in Northern Ireland during 2010–11 and 1995–2010

Species	Sample	10-11	95–10	LCL	UCL	
Pheasant	38	-7	159*	41	273	
Woodpigeon	79	6	84*	27	133	
Magpie	79	19*	17	-14	44	
Jackdaw	72	5	87*	26	133	
Rook	71	7	-5	-37	38	
Hooded Crow	77	11	108*	49	161	
Goldcrest	42	-27*	1	-25	42	
Blue Tit	73	-1	8	-28	41	
Great Tit	68	1	169*	96	197	
Coal Tit	59	28*	78*	20	132	
Skylark	32	-29*	-43*	-57	-33	
Swallow	81	6	12	-14	49	
House Martin	40	98*	64	-15	170	
Chiffchaff	32	47*	36	-6	81	
Willow Warbler	75	13*	109*	56	154	
Blackcap	31	69*	>1,000*	Not est	timable	

Sample	10-11	95–10	LCL	UCL
87	-45*	22	-4	66
75	-21	24	-7	66
82	-16*	30	0	52
73	-30*	39*	4	94
56	-10	-12	-65	60
84	-23*	9	-18	31
66	-30*	68*	6	115
50	3	57	-12	150
41	-36*	16*	Not est	imable
61	-27*	-21	-37	5
86	0	41*	5	59
48	-13	-3	-39	64
45	2*	773*	Not est	imable
35	-34*	60	-4	162
30	41	32	-28	58
31	3	-12	-43	51
	87 75 82 73 56 84 66 50 41 61 86 48 45 35 30	87       -45*         75       -21         82       -16*         73       -30*         56       -10         84       -23*         66       -30*         50       3         41       -36*         61       -27*         86       0         48       -13         45       2*         35       -34*         30       41	87       -45*       22         75       -21       24         82       -16*       30         73       -30*       39*         56       -10       -12         84       -23*       9         66       -30*       68*         50       3       57         41       -36*       16*         61       -27*       -21         86       0       41*         48       -13       -3         45       2*       773*         35       -34*       60         30       41       32	87       -45*       22       -4         75       -21       24       -7         82       -16*       30       0         73       -30*       39*       4         56       -10       -12       -65         84       -23*       9       -18         66       -30*       68*       6         50       3       57       -12         41       -36*       16*       Not est         61       -27*       -21       -37         86       0       41*       5         48       -13       -3       -39         45       2*       773*       Not est         35       -34*       60       -4         30       41       32       -28

- Trends are percentage changes, and are marked with an asterisk (\*) where the 95% confidence limits of the change do not overlap zero (indicating that there has been a significant change).
- Trends for species in brackets are reported with caveats (see p7).
- The sample is the mean number of squares per year on which the species was recorded during 1994–2011.
- The trend since the start of the survey, covering the years 1994–2011, has been smoothed, and the end years truncated. This trend is labelled as 1995–2010.
- LCL and UCL are the lower and upper 95% confidence limits for the 1995–2010 trend.
- Red-listed and amber-listed species from 'Birds of Conservation Concern 3' are shown in the relevant colour.



# English regions

Bird population trends for English regions are shown in Table 8 opposite. Coverage varies considerably from one region to another, with the number of squares surveyed dependent on the number of BBS observers available in the area. Trends are reported only for species found on an average of at least 30 squares per year in that region over the survey period.

Trends discussed here are the population changes since the start of the BBS, and comparisons between regions are made below only if trends have been calculated in at least four regions. More detailed information is available on the BBS website, including population changes between 2010 and 2011 and population trend graphs.

For the first time it has been possible to produce a regional trend for Ring-necked Parakeet, in the London region.

Re	gion	Counties Squares	2011
1	North West	Cheshire, Cumbria, Lancashire, Greater Manchester, Merseyside	283
2	North East	Cleveland, County Durham, Northumberland	105
3	Yorkshire and the Humber	East Yorkshire, North Lincolnshire, North Yorkshire, South Yorkshire, West Yorkshire	229
4	East Midlands	Derbyshire, Northamptonshire, Leicestershire & Rutland, Lincolnshire, Nottinghamshire	245
5	East of England	Bedfordshire, Cambridgeshire, Essex, Hertfordshire, Norfolk, Suffolk	344
6	West Midlands	Birmingham, Herefordshire, Shropshire, Staffordshire, Warwickshire, Worcestershire	213
7	South East	Berkshire, Buckinghamshire, Hampshire, Isle of Wight, Kent, Oxfordshire, Surrey, Sussex	593
8	South West	Avon, Cornwall, Devon, Dorset, Gloucestershire, Somerset, Wiltshire	408
9	London	Greater London	98

**Regional trends** 

produced for

species in 2011

North West: Sparrowhawk and Moorhen have declined more in the North West than in any other region for which trends can be calculated. Cuckoo and Mistle Thrush have declined less than in other regions, and it is the only region in which House Martin increased. Pheasant, Stock Dove, Goldcrest, Willow Warbler, Blackcap and Nuthatch all increased more than in any other English region. Of the 55 species for which trends can be calculated, Starling has shown the greatest decline, and Nuthatch the greatest increase.

North East: Pied Wagtail has increased more in the North East than in any other English region for which trends can be calculated. Woodpigeon and Blackcap have shown smaller increases than in other English regions, and it is the only region in which Jackdaw has declined. Of the 31 species for which trends can be calculated in this region, Starling has shown the greatest decline, and Chiffchaff the greatest increase.

Yorkshire and the Humber: Of the 49 species for which trends can be calculated in this region, Rook has shown the greatest decline, and Oystercatcher the greatest increase. Moorhen, Woodpigeon, Coal Tit, Long-tailed Tit, Blackbird and Reed Bunting have all shown greater increases than in other English regions, and it is the only region in which Skylark has not declined. Great Spotted Woodpecker and Whitethroat increased less than in other English regions. Grey Heron, Kestrel, Magpie, Rook and Pied Wagtail all declined more than in other regions.

East Midlands: We can now produce East Midlands trends for Buzzard and Garden Warbler, bringing the total number of species for which trends can be calculated to 54, of which Yellow Wagtail has shown the greatest decline and Buzzard the greatest increase. The East Midlands is the only region in which Kestrel numbers have increased, albeit by a small amount. Grey Heron, Buzzard, Lapwing, Green Woodpecker, Rook, Chiffchaff, Dunnock and Bullfinch have all increased more than in other regions, and Yellowhammer has declined less than in other regions. Red-legged Partridge, Stock Dove, Cuckoo, Swift and Skylark have shown more severe declines than in other regions.

East of England: We can now produce a trend for Buzzard in the East of England, bringing the total number of species for which trends can be calculated to 65, of which Turtle Dove has shown the greatest decline, and Buzzard the greatest increase. Swift numbers have declined less than in other regions, and Sparrowhawk, Collared Dove, Magpie, Jay, Jackdaw, Carrion Crow and Lesser Whitethroat have increased more. It is the only region in which Pheasant has declined. Garden Warbler, Mistle Thrush and Meadow Pipit have declined more, and Swallow increased less, than in other regions.

West Midlands: Mallard and Song Thrush have increased more in the West Midlands than in any other region. Canada Goose and Great Tit have shown smaller increases than in other regions, and it is the only region in which Collared Dove and Long-tailed Tit have declined. Feral Pigeon, Jay, Blue Tit, Chaffinch and Yellowhammer have all declined more than in any other region. Of the 51 species for which trends can be calculated, Cuckoo has shown the greatest decline, and Buzzard the greatest increase.

South East: The new trend for Reed Warbler in this region brings the total number of species to 67, of which Turtle Dove has shown the greatest decline, and Red Kite the greatest increase. Whitethroat has increased more, and Feral Pigeon declined less, than in other regions. Coal Tit, Chiffchaff, Nuthatch, Robin, Dunnock and Goldfinch all showed smaller increases than in other regions, and it is the only region in which Lesser Whitethroat has declined. Lapwing, House Martin, Willow Warbler, Wren, Greenfinch, Linnet, Bullfinch and Reed Bunting have declined more than other regions.

South West: We can now produce a trend for Reed Bunting in the South West, bringing the total number of species for which trends can be produced to 61, of which Cuckoo has shown the greatest decline and Great Spotted Woodpecker the greatest increase. Canada Goose, Red-legged Partridge, Great Spotted Woodpecker, Swallow and House Sparrow have all increased more than in other regions, and the declines in Garden Warbler and Meadow Pipit have been less pronounced. Starling has declined more than in other regions, while Buzzard and Green Woodpecker have shown smaller increases, and it is the only region in which Carrion Crow and Goldcrest have declined.

London: This year, for the first time, we are able to produced a regional trend for Ring-necked Parakeet. This brings the total number of species for which trends can be produced in London to 24, of which House Sparrow has shown the greatest decline and Ring-necked Parakeet the greatest increase. Blue Tit, Great Tit, Wren, Robin, Chaffinch, Greenfinch and Goldfinch have all increased more in London than in other English regions, and Starling has declined less than in other regions. Song Thrush and House Sparrow have declined more than in other regions, and it is the only region in which Mallard and Blackbird have declined.

# Table 8 Trends in English regions during 1995–2010

Species	es North		North	East	Yorks	hire	Eas Midla		East Engla		Wes Midla		South	East	South	West	Lond	on
Mute Swan							intere		19	41	intertu		-21	53	9	32		
Greylag Goose									85	37								
Canada Goose	99*	61					59	37	37	53	26	64	30	105	108*	43		
Shelduck									33	34								
Mallard	22	147			47*	83	26*	95	15	182	69*	107	26*	215	50*	142	-16	39
Red Grouse					2	31												
Red-legged Partridge					26	43	-21	74	-3	173	64*	33	107*	114	116*	51		
Grey Partridge							-44	30	-51*	41			-68*	34				
Pheasant	110*	125	55*	57	81*	117	22	136	-5	262	64*	129	32*	362	58*	251		
(Cormorant)									-2	46			88*	43	-20	31		
(Grey Heron)	-13	76			-29	32	21	48	-28*	81	11	57	0	116	-16	77		
Red Kite		70							-				>1,000*	42	-			
Sparrowhawk	-40*	32						70	9	46	10.5*	07	-13	65	1	46		
Buzzard	115*	57			46*	47	>1,000*	32	>1,000*	34	195*	83	922*	120	14	203		
Kestrel Moorhen	-22 -19*	66 70			-46* 31	47 36	3 -17	58 56	-17* 7	104 124	-7 -14	42 59	-18* -4	130 140	-35* 12	74 63		
Coot	20	30			31	30	-17	56	10	38	-14	59	-4	60	12	65		
Oystercatcher	10	51			176*	32			10	30			12	60				
	-28*	110	-15	38	176	52 89	13	61	0	73	-12	39	-39*	106				
Lapwing	-28*		-15	38			15	01	U	/3	-12	39	-39.	100				
Curlew Feral Pigeon	-47* -28	84 73	-30.	20	-6 -30	83 54	-30	47	-10	73	-41*	43	-7	104	-13	66	-21*	67
Stock Dove	-28 118*	49			-30 69*	54 45	-30	47 66	-10	131	-41* 25	43 77	-/	104	-15	112	-21	07
Woodpigeon	54*	199	27	69	87*	140	-48*	173	-2 51*	305	25 29*	170	31*	450	-4 44*	321	62*	75
Collared Dove	54 · 52*	125	21	09	87	70	39*	1/3	75*	202	-26*	112	16*	279	12	179	43*	75 49
Turtle Dove	32.	120				70	39.	102	-81*	73	-20	112	-84*	53	12	1/9	43	49
Ring-necked Parakeet									-01	15			-04	55			>1.000*	30
Cuckoo	-50*	33			-63*	38	-79*	53	-65*	114	-66*	56	-57*	168	-76*	77	-1,000	50
Swift	-50* -45*	108			-63* -39*	73	-79* -52*	78	-65* -10	147	-66* -26*	74	-57* -50*	166	-76* -51*	138	-34	57
Green Woodpecker	-45	100			-39	75	163*	37	151*	156	21	59	-30	286	-51	121	-54	57
Gt Spotted Woodpecker	149*	80			63	37	126*	52	80*	138	137*	95	113*	275	152*	142	104*	34
Magpie	-13*	174			-28*	86	3	128	27*	226	-20*	152	12*	385	-6	268	25*	74
	23	63			-20	00	3	120	69*	106	-20	57	-7	211	-0	98	11	37
Jay Jackdaw	61*	125	-1	51	41	94	70*	100	109*	201	-25	127	63*	330	28*	247		57
Rook	-31	83	-16	42	-66*	94	29	86	23	172	-6	82	15	229	-16	203		
Carrion Crow	27*	206	11	67	68*	143	31	161	87*	281	-0	169	12	432	-10	315	61*	75
Raven	21	200		07	00	145	51	101	0/	201	U	109	12	452	-55	53	01	75
Goldcrest	43	38							23	66	34	38	11	174	-22	119		
Blue Tit	-2	190	-2	54	3	126	17	158	17*	282	-5	168	12*	438	-22	306	34*	74
Great Tit	40*	175	66*	48	56*	108	59*	146	30*	267	27*	163	32*	426	56*	294	133*	69
Coal Tit	34	61	73	34	152*	34	22	34	8	57	62*	45	1	138	18	94	135	05
Marsh Tit	54	01	15	54	152	54		54	U	57	02	75	-13	50	10	54		
Skylark	-32*	112	-31*	57	0	119	-39*	142	-24*	262	-25*	110	-28*	298	-24*	204		
Swallow	24	182	47*	62	29	130	45*	134	14	214	26*	134	27*	297	73*	272		
House Martin	10	96		02	-19	59	-27	52	-30*	99	-11	77	-45*	145	-7	141		
Long-tailed Tit	26	77			48	41	28	68	42*	138	-5	81	1	226	34*	130		
Chiffchaff	182*	85	174*	32	170*	54	237*	77	98*	182	99*	126	33*	330	39*	265		
Willow Warbler	22	136	-14	57	21	97	-48*	87	-66*	120	-40*	89	-67*	154	-47*	150		
Blackcap	139*	103	54*	34	69*	69	69*	100	71*	219	83*	122	86*	346	102*	245	130*	39
Garden Warbler	155			0.	05	00	-20	30	-25	58	-13	43	-14	96	-2	61	150	0.0
Lesser Whitethroat							15	31	21	69		.0	-27*	54	5	40		
Whitethroat	16	80	62*	.34	11	69	69*	120	26*	232	44*	98	73*	275	46*	190		
Sedge Warbler		00				00		0	-6	46		50	26	33	44	31		
Reed Warbler									13	40			32	30		5.		
Nuthatch	339*	32								-	127*	44	48*	159	82*	75		
Treecreeper													5	84	-23	45		
Wren	22*	196	-9	63	11	140	-2	164	6	281	-4	164	-11*	427	-7	313	41*	69
Starling	-52*	169	-60*	50	-59*	108	-42*	124	-41*	228	-63*	130	-58*	325	-70*	192	-40*	74
Blackbird	42*	199	30	60	53*	138	21*	171	8	297	36*	171	1	449	25*	322	-22*	75
Song Thrush	51*	150	-19	51	47*	94	24	120	-4	220	76*	140	-10*	389	21*	266	-35*	47
Mistle Thrush	-3	116	-22*	35	-52*	71	-25*	81	-53*	137	-13	85	-52*	225	-37*	121	-51*	32
Spotted Flycatcher													-66*	30	-33*	30		
Robin	25*	189	18	59	37*	122	14	159	24*	278	30*	168	2	432	9*	309	76*	72
Wheatear	-3	42			20	31												
Dunnock	34*	164	28	48	11	108	35*	151	17*	252	33*	154	5	390	20*	284	15	56
House Sparrow	6	150	-23	36	4	84	7	109	-34*	194	-2	134	-36*	285	15	214	-69*	65
Tree Sparrow							49	31										
Yellow Wagtail							-80*	34	-41*	47								
Grey Wagtail															-17	30		
Pied Wagtail	-18	120	7	40	-43*	84	-34	88	-5	146	-1	82	-16*	191	-17	141		
Meadow Pipit	-20	77	-8	43	-20	78	-30	39	-39*	43			-28*	48	-2	44		
Chaffinch	24*	196	23	67	26*	140	32*	168	35*	296	-17*	168	6	439	-4	318	157*	50
Greenfinch	7	147	-7	39	-8	93	5	128	13	244	-5	135	-24*	360	-21*	260	75*	58
Goldfinch	139*	145	101*	43	139*	94	105*	109	43*	185	162*	111	36*	284	60*	231	242*	40
Linnet	-13	88	-16	41	-12	81	-31*	103	-30*	161	-35*	70	-43*	215	-31*	166		
Bullfinch	22	37					29	39	-8	60	15	49	-35*	127	-6	98		
Yellowhammer	-26*	56	-38*	39	-17	76	-5	124	-20*	209	-39*	103	-28*	241	-13	155		
Reed Bunting	8	56			60*	35	28	52	28	76			-21	57	52*	30		

• This table shows the smoothed trend since the start of

the survey (in bold) and sample sizes (normal font).The sample is the mean number of squares per year on which the species was recorded during 1994–2011.

• Trends are percentage changes, and are marked with an asterisk (\*) where the 95% confidence limits of the change do not overlap zero (indicating that there has been a significant change).

Red-listed and amber-listed species from 'Birds of Conservation Concern 3' are shown in the relevant colour.
Trends for species in brackets are reported with caveats (see p7).

## MAMMAL MONITORING

# Mammals recorded in 2011

Mammal records were received from 2,407 squares, 75% of the total number of squares surveyed. This includes 'null' counts, where the recorder confirmed that no mammals were detected.

Table 9 shows the 15 most widespread species in 2011. For easily detectable diurnal species, such as Brown Hare, Rabbit, Grey Squirrel and some deer, the vast majority of records were of individuals seen and counted during the two BBS visits. However, a large proportion of the records for other mammals were based on field signs, dead animals, and local knowledge. These include those for mainly nocturnal or crepuscular species, such as Hedgehog, Mole and Badger.

#### Table 9 Common mammal species in 2011

Species	Scientific name	Squares recorded	Squares seen	Individuals
Grey Squirrel	Sciurus carolinensis	921	829	1,833
Common Rat	Rattus norvegicus	107	26	39
Rabbit	Oryctolagus cuniculus	1,587	1,480	13,591
Brown Hare	Lepus europaeus	735	695	2,475
Mountain/Irish Hare	e Lepus timidus	60	56	162
Hedgehog	Erinaceus europaeus	76	7	8
Mole	Talpa europaea	499	0	0
Domestic Cat	Felis catus	326	275	504
Fox	Vulpes vulpes	562	310	403
Badger	Meles meles	290	17	21
Stoat	Mustela erminea	83	36	38
Reeves' Muntjac	Muntiacus reevesi	153	116	164
Red Deer	Cervus elaphus	71	53	647
Fallow Deer	Dama dama	92	67	1,241
Roe Deer	Capreolus capreolus	566	486	987



# BBS squares surveyed for

In addition to those listed in Table 9, a further 29 species were recorded during BBS visits in 2011; these are listed in Table 10. The order of species within the tables follows Harris & Yalden (2008).

Live mammals were seen and counted during at least one bird-recording visit on 2,135 squares (89% of the mammal returns). On 103 squares (4%) the only mammal records were from extra visits, field signs, dead animals or local knowledge, leaving 169 squares (7%) on which the observer reported that they saw no evidence of any mammals. It is important that we continue to receive counts of zero mammals, to ensure that our records remain unbiased.

#### **Table 10** All other mammal species in 2011

Species	Scientific name	Squares recorded
Red Squirrel	Sciurus vulgaris	42
Common Dormouse	Muscardinus avellanarius	1
Bank Vole	Myodes glareolus	23
Short-tailed Vole	Microtus agrestis	24
Water Vole	Arvicola terrestris	8
Harvest Mouse	Micromys minutus	1
Wood Mouse	Apodemus sylvaticus	27
Yellow-necked Mouse	Apodemus flavicollis	1
House Mouse	Mus domesticus	10
Common Shrew	Sorex araneus	36
Pygmy Shrew	Sorex minutus	4
Lesser White-toothed Shrew	Crocidura suaveolens	1
Daubenton's Bat	Myotis daubentonii	1
Noctule	Nyctalus noctula	2
Pipistrelle sp.	Pipistrellus pipistrellus/pygmaeus	23
Serotine	Eptesicus serotinus	1
Otter	Lutra lutra	34
Pine Marten	Martes martes	3
Weasel	Mustela nivalis	48
Polecat	Mustela putorius	3
Ferret	Mustela furo	1
American Mink	Mustela vison	15
Common Seal	Phoca vitulina	1
Grey Seal	Halichoerus grypus	4
Wild Boar	Sus scrofa	2
Sika Deer	Cervus nippon	9
Chinese Water Deer	Hydropotes inermis	6
Feral Goat	Capra hircus	5
Park Cattle	Bos taurus	1

Squares recorded: number of squares on which the species was recorded,

including counts, field signs, dead animals and local knowledge. • Squares seen: number of squares on which the species was seen and counted. • Individuals: total number of individuals counted, taking the maximum count

from the two visits to each square.

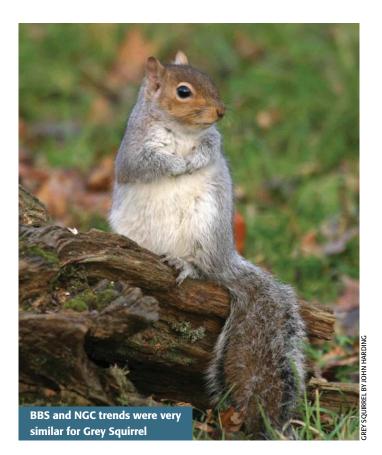
# Mammal trends 1995–2010

BBS count data are used to calculate population trends for nine relatively widespread mammal species, shown in Table 11. These trends cover the period 1995–2010, the latest year for which estimates are available.

Of the nine mammals for which trends can be produced from BBS counts, four have increased significantly since 1995: Grey Squirrel (53%), Reeves' Muntjac (67%), Red Deer (99%) and Roe Deer (58%), with the greatest increase shown by Red Deer. Three mammals have declined significantly: Rabbit (-46%), Mountain/Irish Hare (-52%) and Fox (-24%).

Recent declines in Mountain/Irish Hares may represent population cycles, while the current decline in Rabbits, following a period of recovery from myxomatosis, could be linked to viral haemorrhagic disease. The downturn in Fox numbers is new, and follows a long-term increase attributed to increases in Rabbits and gamebird releases.

The information on species detected more often by signs of their presence than by sightings (e.g. Hedgehog, Mole and Badger) can also be used to estimate trends, although these require more careful interpretation. We will report periodically on these trends in occurrence.



#### Table 11 UK mammal trends 1995–2010

Species	Trend 95–10	Sample
Grey Squirrel	53*	616
Rabbit	-46*	1,226
Brown Hare	-6	609
Mountain/Irish Hare	-52*	43
Fox	-24*	259
Reeves' Muntjac	67*	72
Red Deer	99*	54
Fallow Deer	35	48
Roe Deer	58*	325

This table shows unsmoothed trends (in bold) and sample sizes (normal font).
Population changes are shown for mammal species for which the sample size is at least 35 squares.

 Trends are percentage changes, and are marked with an asterisk (\*) where significant at the 95% level or more.

• The sample is the mean number of squares on which the species was recorded each year during the survey period 1995–2010.

# Comparison of BBS mammal trends with the National Gamebag Census

In 2011 the JNCC funded work to compare BBS mammal trends between 1995 and 2009 with another annual scheme: the National Gamebag Census (NGC), carried out by the Game and Wildlife Conservation Trust. The NGC is a voluntary scheme that collects bag statistics from shooting estates, on average about 650 per year. The aim of the project was to produce an overview of trends in abundance and distribution.

Of nine species tested, none differed significantly in their trends between the two schemes. For four species where BBS indicated significant increases between 1995 and 2009, the NCG trend was either not significant (Red Deer, Roe Deer and Reeves' Muntjac) or also showed a significant increase (Grey Squirrel). Rabbit showed a significant decline on BBS whereas NGC found no significant change.

This work demonstrated the feasibility of producing joint BBS-NGC trends for assessing population change for statutory purposes where a single figure is needed. Results of the spatial mapping were also useful, in showing areas where species are most often detected and where the most marked changes had occurred. However, due to differences in sampling design and methods, the recommendation is to routinely report temporal and spatial results from the two schemes separately.



## **SPECIAL THANKS**

We would like to thank all surveyors and ROs for making the BBS the success it is today. Space does not permit all observers to be acknowledged individually here, but we would especially like to thank the ROs for their efforts.

## BBS Regional Organisers in 2011:

#### ENGLAND

Avon Bedfordshire Berkshire Birmingham & West Midlands Buckinghamshire Cambridgeshire Cheshire (Mid) Cheshire (North-Fast) Cheshire (South) Cleveland Cornwall Cumbria Derbyshire (North, South) Devon Dorset Durham Essex (North-East) Essex (North-West) Essex (South) Gloucestershire Hampshire Herefordshire Hertfordshire Huntingdon & Peterborough Isle of Wight Isles of Scilly Kent Lancashire (East) Lancashire (North-West) Lancashire (South) Leicestershire & Rutland Lincolnshire (East)

Lincolnshire (North) Lincolnshire (South) Lincolnshire (West) London (North) London (South) Manchester Mersevside Norfolk (North-East) Norfolk (North-West) Norfolk (South-East) Norfolk (South-West) Northamptonshire Northumberland Nottinghamshire Oxfordshire (North) Oxfordshire (South) Shropshire Somerset Staffordshire (North, South, West) Suffolk Surrey Sussex The Wirra Warwickshire Wiltshire (North, South) Worcestershire Yorkshire (Bradford) Yorkshire (Central) Yorkshire (East, Hull) Yorkshire (Leeds & Wakefield) Yorkshire (North-East) Yorkshire (North-West) Yorkshire (Richmond) Yorkshire (South-East, South-West) Yorkshire (York)

#### SCOTLAND Aberdeen

Angus Argyll (Mull, Coll, Tiree & Morven) Argyll (mainland & Gigha) & Bute Ayrshire Benbecula & The Uists Borders Caithness Central Dumfries Fife & Kinross Inverness (East & Speyside, West) Islay, Jura & Colonsay Kincardine & Deeside Kirkcudbright

The late John Tully Judith Knight Sarah & Ken White Steve Davies Roger Warren Mark Welch Paul Miller Mark Eddowes Charles Hull Vic Fairbrother Stephen Jackson . Clive Hartley Dave Budworth Stella Beavan Simon Breeze David Sowerbutts Matt Shuter (now VACANT) Graham Smith VACANT Mike Smart Glynne Evans Chris Robinson Chris Dee Mick Twinn James Glovn Will Wagstaff Geoff Orton Tony Cooper Jean Roberts Stephen Dunstan (now Stuart Piner) David Wright Phil Espin Chris Gunn Hugh Dorrington Peter Overton Ian Woodward Richard Arnold Judith Smith Bob Harris Chris Hudson Bob Osborne Rachel Warren Vince Matthews Barrie Galpin Muriel Cadwallender Lynda Milner Frances Buckel John Melling Allan Dawes Penny Allwright Gerald Gittens Mick Wright Penny Williams Helen Crabtree Paul Miller Mark Smith Bill Ouantrill Harry Green Mike Denton Mike Brown Geoff Dobbs Colin Bonnington Mick Carroll Gerald Light John Edwards VACANT Rob Chapman

Paul Doyle Bruce Lynch Rod Little Richard Allan (now VACANT) Brian Broadley Yvonne Benting Graham Pyatt Donald Omand Neil Bielby Edmund Fellowes Norman Elkins Hugh Insley John Armitage Graham Cooper Andrew Bielinski Lanark, Renfrew & Dunbarton Lewis & Harris Lothian Moray & Nairn Orkney Perthshire Rhum, Eigg, Canna & Muck Ross-shire Shetland Skye Sutherland Wigtown

#### WALES

BTO Wales Officer Anglesey Brecknock Caernarfon Cardigan Carmarthen Clwyd (East) Clwyd (West) Glamorgan (Mid, South) Glamorgan (West) Gwent Merioneth

Montgomery Pembrokeshire Radnorshire

#### NORTHERN IRELAND

BTO Ireland Officer Antrim & Belfast Armagh Down Fermanagh Londonderry Tyrone

CHANNEL ISLANDS Channel Islands (excl. Jersey) Jersey

ISLE OF MAN Isle of Man

#### VACANT

Chris Reynolds Alan Heavisides Bob Proctor Colin Corse Richard Paul Bob Swann Simon Cohen Dave Okill Helen Crabtree Vacant (now Bob Swann) Geoff Sheppard

John Lloyd Tony White John Lloyd Geoff Gibbs Moira Convery Terry Wells . Anne Brenchlev Mel ab Owain Wayne Morris Rhian Evans Jerry Lewis David Anning (now Geoff Gibbs) Jane Kelsall Annie Haycock Vacant (now Carlton Parry)

Shane Wolsey Ruth Wilson Stephen Hewitt Alastair McIlwain Michael Stinson Charles Stewart (now **VACANT**) Michael Stinson

Phil Alexander Tony Paintin

Pat Cullen

We would be grateful for help organising the BBS in regions currently without a Regional Organiser. If you live in one of these regions and would be interested in taking on the role, please let us know.

Many thanks are due to the following ROs who retired during the past year, having supported the BBS in their regions: Richard Allan, David Anning, Stephen Dunstan, Matt Shuter and Charles Stewart.

We also remember John Tully, RO for Avon, who sadly passed away in May 2012.

We would like to thank and welcome Geoff Gibbs, Carlton Parry and Stuart Piner, who have taken over as ROs during the past year.

Finally, we would like to thank all the landowners who kindly allow volunteers to carry out BBS surveys on their land.

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