

**European Community Directive
on the Conservation of Natural Habitats
and of Wild Fauna and Flora
(92/43/EEC)**

Supporting documentation for the
Third Report by the United Kingdom under
Article 17

on the implementation of the Directive
from January 2007 to December 2012
Conservation status assessment for

Species:

S1309 - Common pipistrelle (*Pipistrellus pipistrellus*)

IMPORTANT NOTE – PLEASE READ

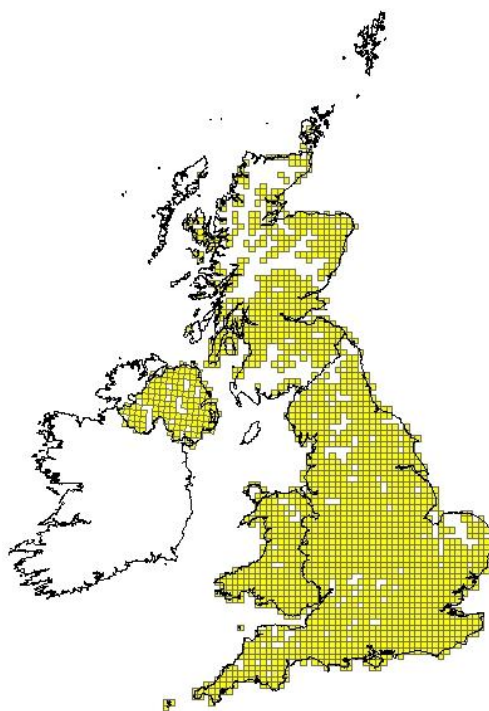
- The country-level reporting information contained in this document is a contribution to the Article 17 UK report for the habitat/species concerned.
- It has been provided by **Scottish Natural Heritage** and refers only to the state of the habitat/species in **Scotland** - it does not constitute an assessment for the whole of the UK.
- The Article 17 UK Approach document provides details on how this information has been used and, combined with information supplied by other Statutory Nature Conservation Bodies
- The format of the document is closely aligned to that set out by the European Commission for Member State reporting – as a result, some of the fields are not applicable at a country-level and have deliberately been left blank – in addition, the content of most fields is constrained by the EC reporting categories.

Reporting format on the 'main results of the surveillance under Article 11' for Annex II, IV & V species

<i>Field name</i>	<i>Brief explanations</i>	
0.2 Species	0.2.1 Species code	S1309
	0.2.2 Species scientific name	<i>Pipistrellus pipistrellus</i>
	0.2.3 Alternative species scientific name Optional	
	0.2.4 Common name Optional	Common pipistrelle

1.1 Maps

1.1.1 Distribution map	Sensitive	False
<p>England & Wales: <i>P. pipistrellus</i> is widely distributed throughout England and Wales, with gaps in distribution probably reflecting an absence of survey data rather than an absence of the species.</p> <p>Scotland: <i>P. pipistrellus</i> is widely distributed throughout Scotland, except in upland areas, where it is confined to river valleys. Gaps in distribution, particularly in south-west Scotland, probably reflecting an absence of survey data rather than an absence of the species, though it may be genuinely rare in the north. Present on Orkney, Lewis, Skye and many islands of the Inner Hebrides.</p>		



1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling
	BAT CONSERVATION TRUST, 2012. The National Bat Monitoring

	<p>Programme. Annual Report 2011. Bat Conservation Trust, London. (www.bats.org.uk)</p> <p>BARRATT, E.M., DEAVILLE, R., BURLAND, T.M., BRUFORD, M.W., JONES, G., RACEY, P.A., WAYNE, R.K. 1997. DNA answers the call of pipistrelle bat species. <i>Nature</i> (Lond.), 387:138-139.</p> <p>BATTERSBY, J (Ed.). 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership http://jncc.defra.gov.uk/page-3311 .</p> <p>BOYE, P. & DIETZ, M. 2005. Research Report No 661: Development of good practice guidelines for woodland management for bats. English Nature, Peterborough http://publications.naturalengland.org.uk/publication/65012.</p> <p>DAVIDSON-WATTS, I. AND JONES, G. (2006), Differences in foraging behaviour between <i>Pipistrellus pipistrellus</i> (Schreber, 1774) and <i>Pipistrellus pygmaeus</i> (Leach, 1825). <i>Journal of Zoology</i>, 268: 55–62 http://onlinelibrary.wiley.com/doi/10.1111/j.1469-7998.2005.00016.x/abstract .</p> <p>HARRIS, S., MORRIS, P., WRAY, S. & YALDEN, D. 1995. A review of British Mammals: population estimates and conservation status of British mammals other than cetaceans. JNCC, Peterborough http://jncc.defra.gov.uk/page-2759.</p> <p>JONES, G. & BARRATT, E.M. 1999. <i>Vespertilio pipistrellus</i> Schreber, 1774 and <i>V. pygmaeus</i> Leach, 1825 (currently <i>Pipistrellus pipistrellus</i> and <i>P. pygmaeus</i>; Mammalia, Chiroptera): proposed designation of neotypes. <i>Bulletin of Zoological Nomenclature</i>, 56: 182-186.</p> <p>JONES, G & RACEY, P.A. 2008. Common pipistrelle <i>Pipistrellus pipistrellus</i>, Soprano pipistrelle <i>Pipistrellus pygmaeus</i>. Pages 343-351 In HARRIS, S & YALDEN, D.W. <i>Mammals of the British Isles: Handbook</i>, 4th edition. The Mammal Society, Southampton.799pp.</p> <p>MITCHELL-JONES, T.J. 2010. Bats in houses – the conservation challenge. Pp 365-378 in <i>Species Management: challenges and solutions for the 21st century</i>. BAXTER, J.M. & GALBRAITH, C.A. TSO Scotland, Edinburgh.</p> <p>NATURAL ENGLAND. 2012. Bats and Onshore wind Turbines: Interim Guidance. Natural England Technical Information Note TIN51, Natural England, Sheffield http://publications.naturalengland.org.uk/publication/35010.</p> <p>NICHOLLS, B. & RACEY, P. 2006a. Habitat selection as a mechanism of resource partitioning in two cryptic bat species <i>Pipistrellus pipistrellus</i> and <i>Pipistrellus pygmaeus</i>. <i>Ecography</i>, 29, 697-708.</p> <p>NICHOLLS, B. & RACEY, P. 2006b. Contrasting home-range size and spatial partitioning in cryptic and sympatric pipistrelle bats. <i>Behavioural Ecology and Sociobiology</i>, 61, 131-142.</p> <p>RICHARDSON, P. (2000) <i>Distribution atlas of bats in Britain and Ireland 1980-1999</i>. Bat Conservation Trust, London.</p> <p>RUSS, J.M. (1999) <i>The Microchiroptera of Northern Ireland: community composition, habitat associations and ultrasound</i>. Unpublished PhD thesis. Queen’s University, Belfast.</p> <p>SPEAKMAN, J.R. 1991. The impact of predation by birds on bat populations in the British Isles. <i>Mammal Review</i>, 21, 123-142 http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2907.1991.tb00114.x/abstract.</p> <p><i>P. pipistrellus</i> commonly roosts in houses and many records come from requests for information or advice. The widespread use of bat detectors and structured surveys for the National Bat Monitoring Programme has increased the number of records in recent years</p>
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1.1.3 Year or period	2000-2012
	Pipistrellus pipistrellus (s.l) was divided into <i>P. pipistrellus</i> (s.s.) and <i>P. pygmaeus</i> in 1999, so field records prior to this cannot be assigned to either species with confidence.
1.1.4 Additional distribution map	False
1.1.5 Range map	

2.1 Biogeographical region & marine regions	ATL
2.2 Published sources	<p>"BARRATT, E.M., DEAVILLE, R., BURLAND, T.M., BRUFORD, M.W., JONES, G., RACEY, P.A., WAYNE, R.K. 1997. DNA answers the call of pipistrelle bat species. <i>Nature</i> (Lond.), 387:138-139.</p> <p>BAT CONSERVATION TRUST, 2012. The National Bat Monitoring Programme. Annual Report 2011. Bat Conservation Trust, London. (www.bats.org.uk)</p> <p>BATTERSBY, J (Ed.). 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership http://jncc.defra.gov.uk/page-3311 .</p> <p>BOYE, P. & DIETZ, M. 2005. Research Report No 661: Development of good practice guidelines for woodland management for bats. English Nature, Peterborough http://publications.naturalengland.org.uk/publication/65012.</p> <p>DAVIDSON-WATTS, I. AND JONES, G. (2006), Differences in foraging behaviour between <i>Pipistrellus pipistrellus</i> (Schreber, 1774) and <i>Pipistrellus pygmaeus</i> (Leach, 1825). <i>Journal of Zoology</i>, 268: 55–62 http://onlinelibrary.wiley.com/doi/10.1111/j.1469-7998.2005.00016.x/abstract .</p> <p>HARRIS, S., MORRIS, P., WRAY, S. & YALDEN, D. 1995. A review of British Mammals: population estimates and conservation status of British mammals other than cetaceans. JNCC, Peterborough http://jncc.defra.gov.uk/page-2759.</p> <p>JONES, G. & BARRATT, E.M. 1999. <i>Vespertilio pipistrellus</i> Schreber, 1774 and <i>V. pygmaeus</i> Leach, 1825 (currently <i>Pipistrellus pipistrellus</i> and <i>P. pygmaeus</i>; Mammalia, Chiroptera): proposed designation of neotypes. <i>Bulletin of Zoological Nomenclature</i>, 56: 182-186.</p> <p>JONES, G & RACEY, P.A. 2008. Common pipistrelle <i>Pipistrellus pipistrellus</i>, Soprano pipistrelle <i>Pipistrellus pygmaeus</i>. Pages 343-351 In HARRIS, S & YALDEN, D.W. <i>Mammals of the British Isles: Handbook</i>, 4th edition. The Mammal Society, Southampton.799pp.</p> <p>MITCHELL-JONES, T.J. 2010. Bats in houses – the conservation challenge. Pp 365-378 in <i>Species Management: challenges and solutions for the 21st century</i>. BAXTER, J.M. & GALBRAITH, C.A. TSO Scotland, Edinburgh.</p> <p>NATURAL ENGLAND. 2012. Bats and Onshore wind Turbines: Interim Guidance. Natural England Technical Information Note TIN51, Natural England, Sheffield http://publications.naturalengland.org.uk/publication/35010.</p>

	<p>NICHOLLS, B. & RACEY, P. 2006a. Habitat selection as a mechanism of resource partitioning in two cryptic bat species <i>Pipistrellus pipistrellus</i> and <i>Pipistrellus pygmaeus</i>. <i>Ecography</i>, 29, 697-708.</p> <p>NICHOLLS, B. & RACEY, P. 2006b. Contrasting home-range size and spatial partitioning in cryptic and sympatric pipistrelle bats. <i>Behavioural Ecology and Sociobiology</i>, 61, 131-142.</p> <p>RICHARDSON, P. (2000) Distribution atlas of bats in Britain and Ireland 1980-1999. Bat Conservation Trust, London.</p> <p>RUSS, J.M. (1999) The Microchiroptera of Northern Ireland: community composition, habitat associations and ultrasound. Unpublished PhD thesis. Queen's University, Belfast.</p> <p>SPEAKMAN, J.R. 1991. The impact of predation by birds on bat populations in the British Isles. <i>Mammal Review</i>, 21, 123-142 http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2907.1991.tb00114.x/abstract."</p>
	<p>BARRATT, E.M., DEAVILLE, R., BURLAND, T.M., BRUFORD, M.W., JONES, G., RACEY, P.A., WAYNE, R.K. 1997. DNA answers the call of pipistrelle bat species. <i>Nature (Lond.)</i>, 387:138-139.</p> <p>BAT CONSERVATION TRUST, 2012. The National Bat Monitoring Programme. Annual Report 2011. Bat Conservation Trust, London. (www.bats.org.uk)</p> <p>BATTERSBY, J (Ed.). 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership http://jncc.defra.gov.uk/page-3311 .</p> <p>BOYE, P. & DIETZ, M. 2005. Research Report No 661: Development of good practice guidelines for woodland management for bats. English Nature, Peterborough http://publications.naturalengland.org.uk/publication/65012.</p> <p>DAVIDSON-WATTS, I. AND JONES, G. (2006), Differences in foraging behaviour between <i>Pipistrellus pipistrellus</i> (Schreber, 1774) and <i>Pipistrellus pygmaeus</i> (Leach, 1825). <i>Journal of Zoology</i>, 268: 55–62 http://onlinelibrary.wiley.com/doi/10.1111/j.1469-7998.2005.00016.x/abstract .</p> <p>HARRIS, S., MORRIS, P., WRAY, S. & YALDEN, D. 1995. A review of British Mammals: population estimates and conservation status of British mammals other than cetaceans. JNCC, Peterborough http://jncc.defra.gov.uk/page-2759.</p> <p>JONES, G. & BARRATT, E.M. 1999. <i>Vespertilio pipistrellus</i> Schreber, 1774 and <i>V. pygmaeus</i> Leach, 1825 (currently <i>Pipistrellus pipistrellus</i> and <i>P. pygmaeus</i>; Mammalia, Chiroptera): proposed designation of neotypes. <i>Bulletin of Zoological Nomenclature</i>, 56: 182-186.</p> <p>JONES, G & RACEY, P.A. 2008. Common pipistrelle <i>Pipistrellus pipistrellus</i>, Soprano pipistrelle <i>Pipistrellus pygmaeus</i>. Pages 343-351 In HARRIS, S & YALDEN, D.W. <i>Mammals of the British Isles: Handbook</i>, 4th edition. The Mammal Society, Southampton.799pp.</p> <p>MITCHELL-JONES, T.J. 2010. Bats in houses – the conservation challenge. Pp 365-378 in <i>Species Management: challenges and solutions for the 21st century</i>. BAXTER, J.M. & GALBRAITH, C.A. TSO Scotland, Edinburgh.</p> <p>NATURAL ENGLAND. 2012. Bats and Onshore wind Turbines: Interim Guidance. Natural England Technical Information Note TIN51, Natural England, Sheffield http://publications.naturalengland.org.uk/publication/35010.</p>

	<p>NICHOLLS, B. & RACEY, P. 2006a. Habitat selection as a mechanism of resource partitioning in two cryptic bat species <i>Pipistrellus pipistrellus</i> and <i>Pipistrellus pygmaeus</i>. <i>Ecography</i>, 29, 697-708.</p> <p>NICHOLLS, B. & RACEY, P. 2006b. Contrasting home-range size and spatial partitioning in cryptic and sympatric pipistrelle bats. <i>Behavioural Ecology and Sociobiology</i>, 61, 131-142.</p> <p>RICHARDSON, P. (2000) Distribution atlas of bats in Britain and Ireland 1980-1999. Bat Conservation Trust, London.</p> <p>RUSS, J.M. (1999) The Microchiroptera of Northern Ireland: community composition, habitat associations and ultrasound. Unpublished PhD thesis. Queen's University, Belfast.</p> <p>SPEAKMAN, J.R. 1991. The impact of predation by birds on bat populations in the British Isles. <i>Mammal Review</i>, 21, 123-142 http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2907.1991.tb00114.x/abstract.</p>
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2.3 Range	
2.3.1 Surface area Range	
2.3.2 Method used Surface area of Range	<p>Estimate based on partial data with some extrapolation and/or modelling</p> <p>A widely distributed species. The division of <i>P pipistrellus</i> (s.l.) into two separate species in 1999 means that older data cannot be ascribed to either species with confidence.</p>
2.3.3 Short-term trend Period	
2.3.4 Short term trend Trend direction	
2.3.5 Short-term trend Magnitude	a) Minimum
	b) Maximum
2.3.6 Long-term trend Period	
2.3.7 Long-term trend Trend direction	
2.3.8 Long-term trend Magnitude	a) Minimum
	b) Maximum
Optional	

2.3.9 Favourable reference range	a) Value in km²	
	b) Operator for FRR	
	c) FRR is unknown (indicated by "true")	True
	d) Method used to set FRR	
2.3.10 Reason for change Is the difference between the reported value in 2.3.1 and the previous reporting round mainly due to...	a) Genuine change?	False
	b) Improved knowledge/more accurate data?	False
	c) Use of different method (e.g. "Range tool")?	False

2.4 Population		
2.4.1 Population size estimation (using individuals or agreed exceptions where possible)	a) Unit	number of individuals
	For this report, the GB population estimate given in Battersby (2005) has then been split between the 3 countries in the same ratio as the estimate for 'pipistrelle' from Harris et al (1995) (E: 0.625, S: 0.275, W: 0.100). Eng: 800,000 Scot: 352,000 Wales: 128,000	
	b) Minimum	352000
	c) Maximum	352000
2.4.2 Population size	a) Unit	

estimation (using population unit other than individuals) Optional (<i>if 2.4.1 filled in</i>)	b) Minimum	
	c) Maximum	
2.4.3 Additional information on population estimates / conversion Optional	a) Definition of "locality"	
	b) Method to convert data	
	c) Problems encountered to provide population size estimation	
2.4.4 Year or period	2005-2005	A population estimate (for <i>P. pipistrellus</i> s.l.) was published by Harris et al (1995) and updated to account for the split into two species by Battersby (2005), though the latter estimate did not split the population between England, Scotland and Wales.
2.4.5 Method used Population size	Estimate based on partial data with some extrapolation and/or modelling	<p>BATTERSBY, J (Ed.). 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership http://jncc.defra.gov.uk/page-3311 .</p> <p>HARRIS, S., MORRIS, P., WRAY, S. & YALDEN, D. 1995. A review of British Mammals: population estimates and conservation status of British mammals other than cetaceans. JNCC, Peterborough http://jncc.defra.gov.uk/page-2759.</p> <p>NICHOLLS, B. & RACEY, P. 2006a. Habitat selection as a mechanism of resource partitioning in two cryptic bat species <i>Pipistrellus pipistrellus</i> and <i>Pipistrellus pygmaeus</i>. <i>Ecography</i>, 29, 697-708.</p> <p>NICHOLLS, B. & RACEY, P. 2006b. Contrasting home-range size and spatial partitioning in cryptic and sympatric pipistrelle bats. <i>Behavioural Ecology and Sociobiology</i>, 61, 131-142.</p> <p>SPEAKMAN, J.R. 1991. The impact of predation by birds on bat populations in the British Isles. <i>Mammal Review</i>, 21, 123-142 http://onlinelibrary.wiley.com/doi/10.1111/j.1365-2907.1991.tb00114.x/abstract.</p> <p>The estimates were based on expert judgement and extrapolation from limited field surveys. The 1995 population estimate for <i>P. pipistrellus</i> (s.l.) in GB was based on very limited information, extrapolating from known size and distribution of colonies in Scotland following the methods described by Speakman (1991) and Harris et al. (1995). The estimate of approximately 2,000,000 individuals included the undescribed <i>P. pygmaeus</i>. A GB estimate for <i>P. pipistrellus</i> was obtained in 2005, using ratio of <i>P. pipistrellus</i> to <i>P. pygmaeus</i> encountered in the UK National Bat Monitoring Programme (NBMP) Field Survey (BCT 2006), which was approximately two <i>P. pipistrellus</i> to</p>

	each <i>P. pygmaeus</i> . For this report, the GB population has then been split between the 3 countries in the same ratio as the estimate for 'pipistrelle' from Harris et al (1995) (E: 0.625, S: 0.275, W: 0.100).	
2.4.6 Short-term trend Period	The ratio of <i>P. pygmaeus</i> to <i>P. pipistrellus</i> should be taken with caution, because the two species display different foraging behaviour, with <i>P. pipistrellus</i> having smaller colonies and foraging at greater distances from roosts (Nicholls & Racey, 2006a, 2006b). This would suggest that <i>P. pipistrellus</i> might have a more even and widespread distribution across the landscape and might be encountered more frequently in randomly designed survey schemes. <i>P. pygmaeus</i> forages preferentially near water and have larger colonies with smaller foraging distances. It might, therefore, be expected to have a patchier distribution than <i>P. pipistrellus</i> with less frequent foraging in the wider landscape and encountered less in random surveys.	
2.4.7 Short-term trend Trend direction	increase	
2.4.8 Short-term trend Magnitude	a) Minimum	
	b) Maximum	
	c) Confidence interval	
2.4.9 Short-term trend Method used		
2.4.10 Long-term trend – Period		
2.4.11 Long-term trend Trend direction		
2.4.12 Long-term trend Magnitude Optional	a) Minimum	
	b) Maximum	
	c) Confidence	

	interval	
2.4.13 Long term trend Method used		
2.4.14 Favourable reference population	a) Number of individuals/agreed exceptions/other units	
	b) Operator	
	c) FRP is unknown indicated by "true"	True
	d) Method used to set FRP	
2.4.15 Reason for change Is the difference between the value reported at 2.4.1 or 2.4.2 and the previous reporting round mainly due to:	a) Genuine change?	True
	b) Improved knowledge/more accurate data?	False
	c) Use of different method (e.g. "Range tool")?	True

2.5 Habitat for the species	
2.5.1 Area estimation	<p>39958</p> <p>England: 123,900 Scotland: 39,958 Wales: 19,274</p> <p>There is thought to be a sufficient amount of habitat in the UK to support a viable population of the species. P. pipistrellus requires a complex mosaic of habitats to support foraging, roosting and commuting behaviour. Boye & Dietz (2005) and Jones & Racey (2008) provides a good overview of this species' habitat</p>

	<p>requirements. Although most maternity colonies are in buildings, forests of any type are used as roosting and foraging areas, particularly if open water is in the vicinity. Foraging areas are mainly along woodland edge and riparian woodland (Davidson-Watts & Jones 2006; Nicholls & Racey 2006a, 2006b), hedges, foot paths and forest roads, water banks, and at street lights. Linear features in a landscape are important elements for orientation either during foraging or in commuting flights. Foraging activity is in small areas within about 2 km from the roost. The size of an individual home range is dependent on the abundance of prey insects and may have a total size of more than 50 hectares. The species mainly roosts in settlements and is even present in city centres. In summer the roost sites are predominantly in crevices in buildings, especially between tiles and the underlying roofing or behind boards on the gable. Furthermore, individuals and maternity colonies use tree holes, wood crevices, and bird or bat boxes as roosts. The species disperses to temporary sites and mating roosts during the autumn post weaning period.</p> <p>There is thought to be a sufficient amount of habitat in the UK to support a viable population of the species.</p>	
2.5.2 Year or period		
2.5.3 Method used Habitat for the species	<p>Absent data</p> <p>BOYE, P. & DIETZ, M. 2005. Research Report No 661: Development of good practice guidelines for woodland management for bats. English Nature, Peterborough http://publications.naturalengland.org.uk/publication/65012.</p> <p>DAVIDSON-WATTS, I. AND JONES, G. (2006), Differences in foraging behaviour between <i>Pipistrellus pipistrellus</i> (Schreber, 1774) and <i>Pipistrellus pygmaeus</i> (Leach, 1825). <i>Journal of Zoology</i>, 268: 55–62 http://onlinelibrary.wiley.com/doi/10.1111/j.1469-7998.2005.00016.x/abstract .</p> <p>JONES, G & RACEY, P.A. 2008. Common pipistrelle <i>Pipistrellus pipistrellus</i>, Soprano pipistrelle <i>Pipistrellus pygmaeus</i>. Pages 343-351 In HARRIS, S & YALDEN, D.W. <i>Mammals of the British Isles: Handbook</i>, 4th edition. The Mammal Society, Southampton. 799pp.</p> <p>NICHOLLS, B. & RACEY, P. 2006a. Habitat selection as a mechanism of resource partitioning in two cryptic bat species <i>Pipistrellus pipistrellus</i> and <i>Pipistrellus pygmaeus</i>. <i>Ecography</i>, 29, 697-708.</p> <p>NICHOLLS, B. & RACEY, P. 2006b. Contrasting home-range size and spatial partitioning in cryptic and sympatric pipistrelle bats. <i>Behavioural Ecology and Sociobiology</i>, 61, 131-142.</p>	
2.5.4 Quality of the habitat	a) Habitat quality	Unknown
	b) Assessment method	No or insufficient reliable information available
	<p>No or insufficient reliable information available</p> <p><i>P. pipistrellus</i> requires a complex mosaic of habitats to support foraging, roosting and commuting behaviour. In order to obtain an estimate of habitat extent, it would be necessary to first identify all of the foraging and roosting habitat located within the current range boundary; determine whether or not each of these features were being used; and subsequently calculate the combined area of all currently used habitats. This process would require very detailed habitat information at a fine</p>	

	scale across the UK. We do not currently have this level of information. As this is a generalist species, using a mosaic of habitats, the area of distribution is used as an estimate of habitat area. This is calculated from the number of filled 10km squares in the distribution map.	
2.5.5 Short-term trend Period		
2.5.6 Short-term trend Trend direction		
2.5.7 Long-term trend Period		
2.5.8 Long-term trend Trend direction		
2.5.9 Area of suitable habitat for the species	a) Value in km²	
	England: 123,900 Scotland: 39,958 Wales: 19,274	
	b) Absence of data indicated as '0'	
2.5.10 Reason for change Is the difference between the value reported at 2.5.1 and the previous reporting round mainly due to	a) Genuine change?	False
	b) Improved knowledge/more accurate data?	False
	c) Use of different method (e.g. "Range tool")?	False

2.6 Main pressures		
a) Pressure	b) Ranking	c) Pollution qualifier
	H = high importance M = medium importance L = low importance	
A10: Restructuring agricultural land holding	H	
G05: Other human intrusions and disturbances	H	
A02: modification of cultivation practices	M	
A07: use of biocides, hormones	M	O

and chemicals		
B02: Forest and Plantation management & use	M	
D01: Roads, paths and railroads	M	
H01: Pollution to surface waters (limnic & terrestrial, marine & brackish)	L	
J02: human induced changes in hydraulic conditions	L	

Pressures can generally be divided into those that affect roosts and those that affect commuting and foraging (including prey availability). Although roosts are strictly protected, a variable number of licences permitting exclusion is issued every year. In addition, changes in building practices to improve energy efficiency mean that new buildings may offer fewer roosting opportunities (Mitchell-Jones, 2010). Pipistrelles forage along linear features, over wetlands and in woodland clearings. Agricultural and forestry practices that remove or simplify these habitats, or affect the biomass of insect prey could negatively affect populations.

2.6.1 Method used – Pressures

mainly based on expert judgement and other data

JONES, G & RACEY, P.A. 2008. Common pipistrelle *Pipistrellus pipistrellus*, Soprano pipistrelle *Pipistrellus pygmaeus*. Pages 343-351 In HARRIS, S & YALDEN, D.W. Mammals of the British Isles: Handbook, 4th edition. The Mammal Society, Southampton. 799pp.
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2.7 Threats		
a) Threat	b) Ranking	c) Pollution qualifier
	H = high importance M = medium importance L = low importance	
G05: Other human intrusions and disturbances	H	
A07: use of biocides, hormones and chemicals	M	O
B02: Forest and Plantation management & use	M	
C03: Renewable abiotic energy use	M	
D01: Roads, paths and railroads	M	
H01: Pollution to surface waters (limnic & terrestrial, marine & brackish)	L	
J02: human induced changes in	L	

hydraulic conditions		

Pressures can generally be divided into those that affect roosts and those that affect commuting and foraging (including prey availability). Although roosts are strictly protected, a variable number of licences permitting exclusion is issued every year. In addition, changes in building practices to improve energy efficiency mean that new buildings may offer fewer roosting opportunities (Mitchell-Jones, 2010). Pipistrelles forage along linear features, over wetlands and in woodland clearings. Agricultural and forestry practices that remove or simplify these habitats, or affect the biomass of insect prey could negatively affect populations. This species is considered to be at high risk from onshore wind turbines, though specific data are lacking.

2.7.1 Method used – Threats**expert opinion**

JONES, G & RACEY, P.A. 2008. Common pipistrelle *Pipistrellus pipistrellus*, Soprano pipistrelle *Pipistrellus pygmaeus*. Pages 343-351 In HARRIS, S & YALDEN, D.W. Mammals of the British Isles: Handbook, 4th edition. The Mammal Society, Southampton. 799pp.

MITCHELL-JONES, T.J. 2010. Bats in houses – the conservation challenge. Pp 365-378 in Species Management: challenges and solutions for the 21st century. BAXTER, J.M. & GALBRAITH, C.A. TSO Scotland, Edinburgh.

NATURAL ENGLAND. 2012. Bats and Onshore wind Turbines: Interim Guidance. Natural England Technical Information Note TIN51, Natural England, Sheffield
<http://publications.naturalengland.org.uk/publication/35010>.

2.8 Complementary information**2.8.1 Justification of % thresholds for trends****2.8.2 Other relevant information****2.8.3 Trans-boundary assessment****2.9 Conclusions (*assessment of conservation status at end of reporting period*)**

Please refer to the United Kingdom assessment for this species.

**3 Natura 2000 coverage & conservation measures - Annex II species
(only applies to species listed under Annex II of the Directive)****3.1 Population**

3.1.1 Population size Estimation of population size included in the SAC network	a) Unit	
	b) Minimum	
	c) Maximum	
3.1.2 Method used		
3.1.3 Trend of population size within the network (short-term trend)		

3.2 Conservation measures														
Conservation measures taken (i.e. already being implemented) within the reporting period and provided information about their importance, location and evaluation.														
3.2.1 Measure	3.2.2 Type					3.2.3 Ranking H = high importance M = medium importance L = low importance	3.2.4 Location where the measure is PRIMARILY applied			3.2.5 Broad evaluation of the measure				
	a) Legal/statutory	b) Administrative	c) Contractual	d) Recurrent	e) One-off		a) Inside	b) Outside	c) Both inside & outside	a) Maintain	b) Enhance	c) Long term	d) No effect	e) Unknown

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