

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

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

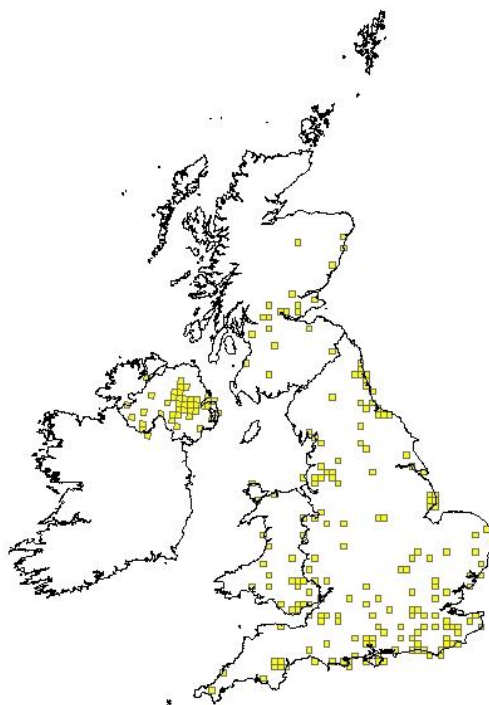
Species:

S1317 - Nathusius' pipistrelle (*Pipistrellus nathusii*)

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	S1317
	0.2.2 Species scientific name	<i>Pipistrellus nathusii</i>
	0.2.3 Alternative species scientific name Optional	
	0.2.4 Common name Optional	

1.1 Maps			
1.1.1 Distribution map	True	Sensitive	False
	The distribution map is based on species records which are considered to be representative of the range within the current reporting period. For further details see the 2013 Article 17 UK Approach document.		



1.1.2 Method used - map	Estimate based on partial data with some extrapolation and/or modelling		
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information		
1.1.3 Year or period	1998-2012		
	The distribution map is based on species records which are considered to be representative of the range within the current reporting period. For further details see the 2013 Article 17 UK Approach document.		

1.1.4 Additional distribution map Optional	False
1.1.5 Range map	True The range map was produced by applying the UK range mapping tool to the distribution map presented in 1.1.4. The alpha value for this species was 45km. For further details see the 2013 Article 17 UK Approach document.



2.1 Biogeographical region & marine regions	ATL
2.2 Published sources	<p>Allen, P., Forsyth, I., Hale, P. & Rogers, S. (2000). Bats in Northern Ireland. Irish Naturalists' Journal. Special Zoological Supplement.</p> <p>Anon (2007) The National Monitoring Programme, Annual Report 2006. Bat Conservation Trust, UK.</p> <p>Anon (2009) The National Monitoring Programme, Annual Report 2008. Bat Conservation Trust, UK.</p> <p>Aughney, T., Carden, R. & Roche, N. (2009) Irish Bat Monitoring and Recording Schemes: Annual Report 2008. Bat Conservation Ireland, www.batconservationireland.org.</p> <p>Aughney, T., Roche, N. and Langton, S. (2010) Irish Bat Monitoring and Recording Schemes: Annual Report 2009. Bat Conservation Ireland, www.batconservationireland.org.</p> <p>Carden R, Aughney T., Kelleher C. and Roche N. (2010). BATLAS Republic of Ireland, Report for 2008-2009. Irish Bat Monitoring Schemes. Bat Conservation Ireland. Unpublished Report.</p> <p>Fairley, J. (2001). A Basket of Weasels. Published by the author.</p> <p>Harris S. & Yalden D. (eds.) (2008). Mammals of the British</p>

	<p>Isles Handbook, 4th Edition. The Mammal Society, Southampton, England.</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. Joint Nature. Conservation Committee, Peterborough.</p> <p>Hopkirk, A., Aughney T., and Roche, N. (2010). BATLAS Northern Ireland Report for 2009. Irish Bat Monitoring Schemes. Bat Conservation Ireland. Unpublished Report.</p> <p>HUTTERER, R., IVANOVA, T., MEYER-CORDS, C. & RODRIGUES, L. 2005. Bat Migrations in Europe: A review of banding data and literature. Federal Agency for Nature Conservation, Bonn.</p> <p>Lundy, M., Montgomery, I. and Russ, J. (2010). Climate change-linked range expansion of <i>Nathusius' pipistrelles</i> bat, <i>Pipistrellus nathusii</i> (Keyserling & Blasius, 1839). <i>Journal of Biogeography</i>. 37: 2232-2242.</p> <p>Lundy, M.G., Aughney, T., Montgomery, W.I., and Roche, N. (2011). Landscape conservation for Irish bats & species specific roosting characteristics. Bat Conservation Ireland. Unpublished.</p> <p>Marnell, F., Kingston, N. & Looney, D. (2009). Ireland Red List No. 3: Terrestrial Mammals. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government. Dublin, Ireland.</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>MITCHELL-JONES, T.M.J & CARLIN, C (2009). TIN051 Bats and onshore wind turbines Interim Guidance. 2nd edition, February 2012. http://publications.naturalengland.org.uk/file/490077</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>O'Sullivan, P. (1994). Bats in Ireland. <i>Irish Naturalists' Journal</i>, 24: Special Zoological Supplement.</p> <p>Richardson, P. (2000). <i>Distribution atlas of bats in Britain and Ireland, 1980-1999</i>. The Bat Conservation Trust, London.</p> <p>Roche, N., Langton, S. & Aughney, T. (2009) <i>The Car Based Bat Monitoring Scheme for Ireland: Synthesis Report 2003-2008</i>. Irish Wildlife Manuals, No. 39. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin.</p> <p>Roche, N., Langton, S. and Aughney T. (2012) <i>Car-based bat monitoring in Ireland 2003-2011</i>. Irish Wildlife Manuals, No. 60. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Ireland.</p> <p>Roche, N., Langton, S., Aughney, T., Russ, J.M., Marnell, F., Lynn, D. & Catto, C. (2011) <i>A car-based bat monitoring method reveals new information on bat populations and distributions in Ireland</i>. <i>Animal Conservation</i>, 14: 642-651.</p> <p>Russ, J. (2008) <i>Review of ASSI designations for bats in Northern Ireland</i>. Northern Ireland Environment Agency, Research and Development Series 08/09."</p> <p>Russ, J.M. & Montgomery, W.I. (2002). <i>Habitat association of</i></p>
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bats in Northern Ireland: implications for conservation. *Biological Conservation*. 108: 49-58.

Russ, J.M., Briffa M. & Montgomery, W.I. (2003). Seasonal patterns in activity and habitat use by *Pipistrellus* spp. And *Nyctalus leisleri* in Northern Ireland, determined using a driving transect. *Journal of Zoology*. 259: 289-299.

RUSS, J.M., HUTSON, A.M., MONTGOMERY, W.I., RACEY, P.A. & SPEAKMAN, J.R. (2001) The status of *Nathusius' pipistrelle* (*Pipistrellus nathusii* Keyserling & Blasius, 1839) in the British Isles. *Journal of Zoology*, 254, 91-100
<http://onlinelibrary.wiley.com/doi/10.1017/S0952836901000589/abstract>.

RUSS, J.M., JONES, G., RACEY, P.A. & HUTSON, A.M. 2008. *Nathusius' pipistrelle* *Pipistrellus nathusii*. Pp 351-355 in HARRIS, S & YALDEN, D.W. *Mammals of the British Isles: Handbook*, 4th edition. The Mammal Society, Southampton. 799pp."

Russ, J.M., O'Neill, J.K. and Montgomery, W.I. (1998). *Nathusius' pipistrelles* *Pipistrellus nathusii* (Keyserling & Blasius, 1839) breeding in Ireland. *Journal of Zoology*, London, 245: 345-349.

UK distribution map data sources

Bat Conservation Emailed to JNCC (LH) by Kyle Hunter 19/11/2012

Bat Conservation Ireland Emailed to JNCC (LH) by Kyle Hunter 17/10/2012

CCW HQ & Licence reports. Sent to CCW HQ & Jon Russ email. Sent to JNCC 21/08/2012

CeDAR Emailed to JNCC (LH) by Kyle Hunter 17/10/2012

Distribution Atlas of Bats in Britain and Ireland (1980-1999): data spreadsheet

Dr Jon Russ Emailed to JNCC (LH) by Kyle Hunter 17/10/2012

Jon Russ data set
http://www.bats.org.uk/pages/nath_pip_survey_results.html. Sent to JNCC 21/08/2012

Jon Russ data set Russ et al. 2007. Sent to JNCC 21/08/2012

Jon Russ data set unpubl. Sent to JNCC 21/08/2012

Jon Russ Ridgeway Ecology: Russ, J.M. (2012) *Nathusius' pipistrelle* in Great Britain & Ireland. Available at:
<http://www.nathusius.org.uk> (accessed 15th July 2012) sent to JNCC 23/07/2012

Jon Russ Ridgeway Ecology: The Bat Conservation Trust (2012). NBMP *Nathusius' pipistrelle* survey 2009-2011.
http://www.bats.org.uk/pages/nath_pip_survey_results.html (accessed 15th July 2012) sent to JNCC 23/07/2012

NBN Gateway Biological Records In Essex GA001035 Extracted 21/08/2012 Bat records for Essex from 1971 - present.

NBN Gateway Bristol Regional Environmental Records Centre GA001100 Extracted 21/08/2012 BRERC JNCC May 2012

NBN Gateway Dorset Environmental Records Centre GA001010 Extracted 21/08/2012 Dorset Important Species 2012 for Natural England use only

NBN Gateway EcoRecord GA000722 Extracted 21/08/2012

Mammal Records held by EcoRecord

NBN Gateway Environmental Records Information Centre

	<p>North East GA000604 Extracted 21/08/2012 ERIC North East sensitive species records</p> <p>NBN Gateway Herefordshire Biological Records Centre GA001084 Extracted 21/08/2012 Herefordshire Biological Records Centre Species Records</p> <p>NBN Gateway Lincolnshire Biodiversity Partnership GA000921 Extracted 21/08/2012 Lincolnshire Bats (sightings)</p> <p>NBN Gateway National Trust GA001105 Extracted 21/08/2012 Extract of National Trust species database covering Article 17 species</p> <p>NBN Gateway Scottish Natural Heritage GA001147 Extracted 21/08/2012 Compilation of records of 12 Article 17 terrestrial mammal species in Scotland</p> <p>NBN Gateway Suffolk Biological Records Centre GA000623 Extracted 21/08/2012 Suffolk Biological Records Centre (SBRC) dataset</p> <p>NBN Gateway Sussex Biodiversity Record Centre GA001076 Extracted 21/08/2012 SxBRC Full dataset for Environment Agency and Natural England use only.</p> <p>NBN Gateway The Bat Conservation Trust GA000437 Extracted 21/08/2012 The BCT/MTUK Bats & Roadside Mammals Survey</p> <p>NBN Gateway The Bat Conservation Trust GA001134 Extracted 21/08/2012 Nathusius' pipistrelle survey</p> <p>NBN Gateway Wiltshire and Swindon Biological Records Centre GA000630 Extracted 21/08/2012 Wiltshire & Swindon Incidental Species Records</p> <p>NBN Gateway Wiltshire and Swindon Biological Records Centre GA001098 Extracted 21/08/2012 Wiltshire and Swindon Habitats Directive (Article 17) Species - Reporting Group Use Only</p> <p>Northern Ireland Bat Group CeDAR_JE File Emailed to JNCC (LH) by Kyle Hunter 17/10/2012</p> <p>Wales LRC Priority & Protected Species layer. Bat data, National Trust, Ceredigion & Carmarthenshire WWBIC</p> <p>Wales LRC Priority & Protected Species layer. Bats & Roadside Mammals Survey SEWBReC</p> <p>Wales LRC Priority & Protected Species layer. BIS casual records -verified BIS</p> <p>Wales LRC Priority & Protected Species layer. Brecknockshire Mammals VC42 2008 BIS</p> <p>Wales LRC Priority & Protected Species layer. Breconshire Mammals VC42 2010 BIS</p> <p>Wales LRC Priority & Protected Species layer. Monmouthshire Mammal Records SEWBReC</p> <p>UK Distribution Map data sources</p> <p>Bat Conservation Emailed to JNCC (LH) by Kyle Hunter 19/11/2012</p> <p>Bat Conservation Ireland Emailed to JNCC (LH) by Kyle Hunter 17/10/2012</p> <p>CCW HQ & Licence reports. Sent to CCW HQ & Jon Russ email. Sent to JNCC 21/08/2012</p> <p>CeDAR Emailed to JNCC (LH) by Kyle Hunter 17/10/2012</p> <p>Distribution Atlas of Bats in Britain and Ireland (1980-1999): data</p>
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	<p>spreadsheet</p> <p>Dr Jon Russ Emailed to JNCC (LH) by Kyle Hunter 17/10/2012</p> <p>Jon Russ data set</p> <p>http://www.bats.org.uk/pages/nath_pip_survey_results.html. Sent to JNCC 21/08/2012</p> <p>Jon Russ data set Russ et al. 2007. Sent to JNCC 21/08/2012</p> <p>Jon Russ data set unpubl. Sent to JNCC 21/08/2012</p> <p>Jon Russ Ridgeway Ecology: Russ, J.M. (2012) <i>Nathusius' pipistrelle</i> in Great Britain & Ireland. Available at: http://www.nathusius.org.uk (accessed 15th July 2012) sent to JNCC 23/07/2012</p> <p>Jon Russ Ridgeway Ecology: The Bat Conservation Trust (2012). NBMP <i>Nathusius' pipistrelle</i> survey 2009-2011.</p> <p>http://www.bats.org.uk/pages/nath_pip_survey_results.html (accessed 15th July 2012) sent to JNCC 23/07/2012</p> <p>NBN Gateway Biological Records In Essex GA001035 Extracted 21/08/2012 Bat records for Essex from 1971 - present.</p> <p>NBN Gateway Bristol Regional Environmental Records Centre GA001100 Extracted 21/08/2012 BRERC JNCC May 2012</p> <p>NBN Gateway Dorset Environmental Records Centre GA001010 Extracted 21/08/2012 Dorset Important Species 2012 for Natural England use only</p> <p>NBN Gateway EcoRecord GA000722 Extracted 21/08/2012 Mammal Records held by EcoRecord</p> <p>NBN Gateway Environmental Records Information Centre North East GA000604 Extracted 21/08/2012 ERIC North East sensitive species records</p> <p>NBN Gateway Herefordshire Biological Records Centre GA001084 Extracted 21/08/2012 Herefordshire Biological Records Centre Species Records</p> <p>NBN Gateway Lincolnshire Biodiversity Partnership GA000921 Extracted 21/08/2012 Lincolnshire Bats (sightings)</p> <p>NBN Gateway National Trust GA001105 Extracted 21/08/2012 Extract of National Trust species database covering Article 17 species</p> <p>NBN Gateway Scottish Natural Heritage GA001147 Extracted 21/08/2012 Compilation of records of 12 Article 17 terrestrial mammal species in Scotland</p> <p>NBN Gateway Suffolk Biological Records Centre GA000623 Extracted 21/08/2012 Suffolk Biological Records Centre (SBRC) dataset</p> <p>NBN Gateway Sussex Biodiversity Record Centre GA001076 Extracted 21/08/2012 SxBRC Full dataset for Environment Agency and Natural England use only.</p> <p>NBN Gateway The Bat Conservation Trust GA000437 Extracted 21/08/2012 The BCT/MTUK Bats & Roadside Mammals Survey</p> <p>NBN Gateway The Bat Conservation Trust GA001134 Extracted 21/08/2012 <i>Nathusius' pipistrelle</i> survey</p> <p>NBN Gateway Wiltshire and Swindon Biological Records Centre GA000630 Extracted 21/08/2012 Wiltshire & Swindon Incidental Species Records</p> <p>NBN Gateway Wiltshire and Swindon Biological Records Centre GA001098 Extracted 21/08/2012 Wiltshire and Swindon Habitats Directive (Article 17) Species - Reporting Group Use Only</p> <p>Northern Ireland Bat Group CeDAR_JE File Emailed to JNCC (LH) by Kyle Hunter 17/10/2012</p> <p>Wales LRC Priority & Protected Species layer. Bat data, National Trust, Ceredigion & Carmarthenshire WWBIC</p> <p>Wales LRC Priority & Protected Species layer. Bats & Roadside Mammals</p>
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	<p>Survey SEWBReC</p> <p>Wales LRC Priority & Protected Species layer. BIS casual records - verified BIS</p> <p>Wales LRC Priority & Protected Species layer. Brecknockshire Mammals VC42 2008 BIS</p> <p>Wales LRC Priority & Protected Species layer. Breconshire Mammals VC42 2010 BIS</p> <p>Wales LRC Priority & Protected Species layer. Monmouthshire Mammal Records SEWBReC</p>

2.3 Range					
2.3.1 Surface area Range	<p>152928</p> <p>The surface area of the range was calculated from the map presented in 1.1.5. For further details see the 2013 Article 17 UK Approach document.</p>				
2.3.2 Method used Surface area of Range	<p>Estimate based on partial data with some extrapolation and/or modelling</p> <p>For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information</p>				
2.3.3 Short-term trend Period	<p>2001-2012</p> <p>For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information</p>				
2.3.4 Short term trend Trend direction	<p>unknown</p> <p>The short term trend direction was derived by comparing the range map in 1.1.5 with the range map produced in the 2007 report, by considering the range trend in the 2007 report, and by considering any further information provided by the UK country conservation agencies. For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.</p>				
2.3.5 Short-term trend Magnitude	<table border="1"> <tr> <td>a) Minimum</td> <td></td> </tr> <tr> <td>b) Maximum</td> <td></td> </tr> </table> <p>Optional</p>	a) Minimum		b) Maximum	
a) Minimum					
b) Maximum					
2.3.6 Long-term trend Period	<p>1989-2012</p> <p>For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information</p>				
2.3.7 Long-term trend Trend direction	<p>unknown</p> <p>The long term trend direction was derived by comparing the range map in 1.1.5 with the range map produced in the 2007 report, by considering the range trend in the 2007 report, and by considering any further information provided by the UK country conservation agencies. For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.</p>				

2.3.8 Long-term trend Magnitude Optional	a) Minimum	
	b) Maximum	
2.3.9 Favourable reference range	a) Value in km²	152928
	The FRR has been set as equal to current. The value is considered to be large enough to support a viable population and no lower than the range estimate from when the Habitats Directive came into force in the UK. For further details please see the 2013 Article 17 UK Approach document.	
	b) Operator for FRR	
	c) FRR is unknown (indicated by "true")	False
	d) Method used to set FRR	The FRR has been set as equal to current. The value is considered to be large enough to support a viable population and no lower than the range estimate from when the Habitats Directive came into force in the UK. For further details please see the 2013 Article 17 UK Approach document.
	The FRR has been set as equal to current. The value is considered to be large enough to support a viable population and no lower than the range estimate from when the Habitats Directive came into force in the UK. For further details please see the 2013 Article 17 UK Approach document.	
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
	No surface area of range value was reported in 2007 due to lack of data. The increased number of distribution records available for this assessment probably represent improved data rather than an expansion of range.	
	b) Improved knowledge/more accurate data?	False
	No surface area of range value was reported in 2007 due to lack of data. The increased number of distribution records available for this assessment probably represent improved data rather than an expansion of range.	
	c) Use of different method (e.g. "Range tool")?	False

	No surface area of range value was reported in 2007 due to lack of data. The increased number of distribution records available for this assessment probably represent improved data rather than an expansion of range.
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2.4 Population		
2.4.1 Population size estimation (using individuals or agreed exceptions where possible)	a) Unit	
	b) Minimum	The population estimate for this species is unknown. For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.
	c) Maximum	The population estimate for this species is unknown. For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.
2.4.2 Population size estimation (using population unit other than individuals) Optional (<i>if 2.4.1 filled in</i>)	a) Unit	
	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	Insufficient data are available to make a population estimate.
		For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.
2.4.4 Year or period		
2.4.5 Method used Population size	Absent data	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.
2.4.6 Short-term trend Period	2001-2012	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.
2.4.7 Short-term trend Trend direction	unknown	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.

2.4.8 Short-term trend Magnitude Optional	a) Minimum	
	b) Maximum	
	c) Confidence interval	
2.4.9 Short-term trend Method used	Absent data For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.4.10 Long-term trend – Period Optional	1989-2012	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.4.11 Long-term trend Trend direction Optional	unknown	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.4.12 Long-term trend Magnitude Optional	a) Minimum	
	b) Maximum	
	c) Confidence interval	
2.4.13 Long term trend Method used Optional	Absent data	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.4.14 Favourable reference population	a) Number of individuals/agreed exceptions/other units	
	It has not been possible to decide on a FRV for population due to lack of information for this species.	
	b) Operator	

	c) FRP is unknown (indicated by "true")	True
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
	d) Method used to set FRP	It has not been possible to decide on a FRV for population due to lack of information for this species.
	It has not been possible to decide on a FRV for population due to lack of information for this species.	
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?	False
	We are not able to give a population estimate so no comparison is possible.	
	b) Improved knowledge/more accurate data?	False
	We are not able to give a population estimate so no comparison is possible.	
	c) Use of different method (e.g. "Range tool")?	False
	We are not able to give a population estimate so no comparison is possible.	

2.5 Habitat for the species		
2.5.1 Area estimation	23409	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
	It is unknown whether the amount of habitat in the UK is sufficient to support a viable population of the species.	
2.5.2 Year or period	2000-2012	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.3 Method used Habitat for the species	Estimate based on expert opinion with no or minimal sampling	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.4 Quality of the habitat	a) Habitat quality	Unknown
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
	b) Assessment method	There is insufficient information available to assess habitat quality.
	For further details see the 2013 Article 17 UK Approach document and	

	relevant country-level reporting information.	
2.5.5 Short-term trend Period	2001-2012	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.6 Short-term trend Trend direction	unknown	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.7 Long-term trend Period Optional	1989-2012	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.8 Long-term trend Trend direction Optional	unknown	
	For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.	
2.5.9 Area of suitable habitat for the species	a) Value in km²	
	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
	Surface area of habitat was reported as unknown in 2007 so no comparison is possible.	
	b) Improved knowledge/more accurate data?	False
	Surface area of habitat was reported as unknown in 2007 so no comparison is possible.	
	c) Use of different method (e.g. "Range tool")?	False
	Surface area of habitat was reported as unknown in 2007 so no comparison is possible.	

2.6 Main pressures		
a) Pressure	b) Ranking	c) Pollution qualifier
	H = high importance (max 5 entries) M = medium importance L = low importance	
A07: use of biocides, hormones and chemicals	H	ANOPTX
A10: Restructuring agricultural land holding	H	
G05: Other human intrusions and	H	T

disturbances		
A02: modification of cultivation practices	M	
B02: Forest and Plantation management & use	M	
D01: Roads, paths and railroads	M	
H01: Pollution to surface waters (limnic & terrestrial, marine & brackish)	M	P
B03: forest exploitation without replanting or natural regrowth	L	
E01: Urbanised areas, human habitation	L	N
J02: human induced changes in hydraulic conditions	L	
M01: Changes in abiotic conditions	L	

For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.

2.6.1 Method used – Pressures

based only on expert judgements

For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.

2.7 Threats		
a) Threat	b) Ranking	c) Pollution qualifier
	H = high importance (max 5 entries) M = medium importance L = low importance	
A07: use of biocides, hormones and chemicals	H	ANOPTX
A10: Restructuring agricultural land holding	H	
G05: Other human intrusions and disturbances	H	P
A02: modification of cultivation practices	M	
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)	M	X
B03: forest exploitation without replanting or natural regrowth	L	
E01: Urbanised areas, human habitation	L	O
J02: human induced changes in hydraulic conditions	L	
M01: Changes in abiotic conditions	L	

For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.

2.7.1 Method used – Threats

expert opinion

For further details see the 2013 Article 17 UK Approach document and relevant country-level reporting information.

2.8 Complementary information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant information

P. nathusii is a highly migratory species, moving south-westwards from northern continental Europe in autumn (Hutterer et al, 2005). A proportion of records from eastern England represent migratory individuals, as there is a clear peak in records during the autumn.

This species has been clearly under recorded in the past, making it hard to assess trends.

2.8.3 Trans-boundary assessment

2.9 Conclusions (*assessment of conservation status at end of reporting period*)

2.9.1 Range

a) Conclusion

Favourable

Range has been assessed as Favourable because the surface area of range is equal to the FRV. The range trend is unknown but there is no evidence to suggest it has declined in the short term.

b) Qualifier

2.9.2 Population	a) Conclusion	Unknown
	Population is unknown because the population size, the FRV for population and the population trend are all unknown.	
	b) Qualifier	
2.9.3 Habitat for the species	a) Conclusion	Unknown
	Habitat for species is unknown because it is unknown whether there is sufficient habitat to support a viable population, and the habitat quality and trend is unknown.	
	b) Qualifier	
2.9.4 Future prospects	a) Conclusion	Unknown
	Future prospects is assessed as Unknown on the basis of assessments of the future prospects of the three parameters, range, population and habitat for species: Range future prospects: Good Population future prospects: Unknown Habitat future prospects: Unknown Overall future prospects: Unknown Distribution, size and status of population currently unclear. Population may be partly migratory.	
	b) Qualifier	
2.9.5 Overall assessment of Conservation Status	Unknown	
	The overall assessment is unknown because population, habitat for species and future prospects are assessed as unknown.	
2.9.6 Overall trend in Conservation Status		

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) Optional		

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	f) Not evaluated