

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

**Fourth Report by the United Kingdom
under Article 17**

on the implementation of the Directive
from January 2013 to December 2018

Conservation status assessment for the species:

S1355 - Otter (*Lutra lutra*)

UNITED KINGDOM

IMPORTANT NOTE - PLEASE READ

- The information in this document represents the UK Report on the conservation status of this species, submitted to the European Commission as part of the 2019 UK Reporting under Article 17 of the EU Habitats Directive.
- It is based on supporting information provided by the geographically-relevant Statutory Nature Conservation Bodies, which is documented separately.
- The 2019 Article 17 UK Approach document provides details on how this supporting information contributed to the UK Report and the fields that were completed for each parameter.
- The reporting fields and options used are aligned to those set out in the European Commission guidance.
- Maps showing the distribution and range of the species are included (where available).
- Explanatory notes (where provided) are included at the end. These provide additional audit trail information to that included within the UK assessments. Further underpinning explanatory notes are available in the related country-level reports.
- Some of the reporting fields have been left blank because either: (i) there was insufficient information to complete the field; (ii) completion of the field was not obligatory; and/or (iii) the field was not relevant to this species (section 12 Natura 2000 coverage for Annex II species).
- The UK-level reporting information for all habitats and species is also available in spreadsheet format.

Visit the JNCC website, <https://jncc.gov.uk/article17>, for further information on UK Article 17 reporting.

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

NATIONAL LEVEL

1. General information

1.1 Member State	UK
1.2 Species code	1355
1.3 Species scientific name	<i>Lutra lutra</i>
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Otter

2. Maps

2.1 Sensitive species	No
2.2 Year or period	1994-2018
2.3 Distribution map	Yes
2.4 Distribution map Method used	Based mainly on extrapolation from a limited amount of data
2.5 Additional maps	No

3. Information related to Annex V Species (Art. 14)

3.1 Is the species taken in the wild/exploited?	No																
3.2 Which of the measures in Art. 14 have been taken?	<table> <tr> <td>a) regulations regarding access to property</td><td>No</td></tr> <tr> <td>b) temporary or local prohibition of the taking of specimens in the wild and exploitation</td><td>No</td></tr> <tr> <td>c) regulation of the periods and/or methods of taking specimens</td><td>No</td></tr> <tr> <td>d) application of hunting and fishing rules which take account of the conservation of such populations</td><td>No</td></tr> <tr> <td>e) establishment of a system of licences for taking specimens or of quotas</td><td>No</td></tr> <tr> <td>f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens</td><td>No</td></tr> <tr> <td>g) breeding in captivity of animal species as well as artificial propagation of plant species</td><td>No</td></tr> <tr> <td>h) other measures</td><td>No</td></tr> </table>	a) regulations regarding access to property	No	b) temporary or local prohibition of the taking of specimens in the wild and exploitation	No	c) regulation of the periods and/or methods of taking specimens	No	d) application of hunting and fishing rules which take account of the conservation of such populations	No	e) establishment of a system of licences for taking specimens or of quotas	No	f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens	No	g) breeding in captivity of animal species as well as artificial propagation of plant species	No	h) other measures	No
a) regulations regarding access to property	No																
b) temporary or local prohibition of the taking of specimens in the wild and exploitation	No																
c) regulation of the periods and/or methods of taking specimens	No																
d) application of hunting and fishing rules which take account of the conservation of such populations	No																
e) establishment of a system of licences for taking specimens or of quotas	No																
f) regulation of the purchase, sale, offering for sale, keeping for sale or transport for sale of specimens	No																
g) breeding in captivity of animal species as well as artificial propagation of plant species	No																
h) other measures	No																

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

3.3 Hunting bag or quantity taken in the wild for Mammals and Acipenseridae (Fish)

a) Unit

b) Statistics/ quantity taken	Provide statistics/quantity per hunting season or per year (where season is not used) over the reporting period					
	Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
Min. (raw, ie. not rounded)						
Max. (raw, ie. not rounded)						
Unknown	No	No	No	No	No	No

3.4. Hunting bag or quantity taken in the wild Method used

3.5. Additional information

BIOGEOGRAPHICAL LEVEL

4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs

Atlantic (ATL)

4.2 Sources of information

England

Mathews, F., Kubasiewicz, L.M., Gurnell, J., Harrower, C., McDonald, R.A., Shore, R.F (2018). A review of the population and conservation status of British Mammals. A report by the Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.

Chanin, P. 2003. Ecology of the European otter. Conserving Natura 2000 rivers ecology series No. 10. Peterborough: English Nature.

Harris, S. & Yalden, D. 2008. Mammals of the British Isles: handbook, Mammal Society.

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.

Crawford, A. 2010. Fifth Otter Survey of England 2009-2010. Bristol: Environment Agency.

Kean, E., Lyons, G. & Chadwick, E. A. 2013. Persistent organic pollutants and indicators of otter health. CHEMTrust.

Jefferies, D. J., Strachan, C. & Strachan, R. 2003. Estimating numbers of the three interacting riparian mammals in Britain using survey data. In: Jefferies, D. J. (ed.) The water vole and mink survey of 1996- 1998 with a history of the long-term changes in the status of both species and their causes. Ledbury: Vincent Wildlife Trust.

Liles, G. (2003). Conserving Natura 2000 Rivers Conservation Techniques Series No. 5: Otter Breeding Sites - Conservation and Management. English Nature, Peterborough.

Scotland

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

- Chanin, P. 2003. Ecology of the European otter. Conserving Natura 2000 rivers ecology series No. 10. Peterborough: English Nature.
- Findlay, M., Alexander, L. & Macleod, C. 2015. Site condition monitoring for otters (*Lutra lutra*) in 2011-12. Scottish Natural Heritage Commissioned Report No. 521.
- Green, J. & Green, R. 1987. Otter Survey of Scotland 1984-1985. London: Vincent Wildlife Trust.
- Harris, S. & Yalden, D. 2008. Mammals of the British Isles: handbook, Mammal Society.
- Kean, E., Lyons, G. & Chadwick, E. A. 2013. Persistent organic pollutants and indicators of otter health. CHEMTrust.
- Kruuk, H. 1995. Wild otters: Predation and populations. Oxford University Press, Oxford.
- Jefferies, D. J., Strachan, C. & Strachan, R. 2003. Estimating numbers of the three interacting riparian mammals in Britain using survey data. In: Jefferies, D. J. (ed.) The water vole and mink survey of 1996- 1998 with a history of the long-term changes in the status of both species and their causes. Ledbury: Vincent Wildlife Trust.
- Liles, G. (2003). Conserving Natura 2000 Rivers Conservation Techniques Series No. 5: Otter Breeding Sites - Conservation and Management. English Nature, Peterborough.
- Mathews, F., Kubasiewicz, L.M., Gurnell, J., Harrower, C., McDonald, R.A., Shore, R.F (2018). A review of the population and conservation status of British Mammals. A report by the Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.
- Strachan, R. 2007 National survey of otter *Lutra lutra* distribution in Scotland 2003-04. Scottish Natural Heritage Commissioned Report No. 211 www.snh.gov.uk/publications-data-and-research/publications/search-the-catalogue/publication-detail/?id=837.
- Wales
- Andrews E, Crawford AK. 1986. Otter Survey of Wales 1984-85. Vincent Wildlife Trust, London.
- Andrews E, Howell P, Johnson K. 1993. Otter Survey of Wales 1991: Vincent Wildlife Trust, London.
- Bassett S, Wyan J. 2010. Otters in Scotland: How Vulnerable Are They to Disturbance? CIEEM In Practice
- Battersby J. 2005. UK Mammals: Species Status and Population Trends. JNCC/Tracking Mammals Partnership.
- Bradshaw AV, Slater FM. 2002. A Post Mortem Study of Otters in England and Wales: Environment Agency.
- Carey PD, S Wallis, Chamberlain PM, Cooper A, Emmett BA, Maskell L C, McCann T, Murphy J, Norton LR, Reynolds B, Scott WA, Simpson IC, Smart SM, Uilyett JM. 2008. Countryside Survey: UK Results from 2007. CEH Project Number: C03259. N. C. f. E. Hydrology.
- Chadwick EA. 2007. Post Mortem Study of Otters in England and Wales 2002 - 2003. Environment Agency Science Report SC010065/S
- Chadwick EA. 2018. Preliminary report on National Otter Survey Wales 2017. Cardiff University Otter Project. Available from: <http://www.otterproject.cf.ac.uk>
- Chanin P. 2003. Ecology of the European otter. Conserving natura 2000 rivers. Peterborough, English Nature. Ecology series.
- Crawford A, Evans D, Jones A, McNulty J. 1979. Otter Survey of Wales 1977-78. Society for the Promotion of Nature Conservation, Lincoln.
- Crawford A. 2003. Fourth Otter Survey of England 2000-2002. Environment

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

- Agency-Report W1cD61/TR. Environment Agency, Bristol.
- Crawford A. 2010. Fifth Otter Survey of England 2009-2010. Bristol, Environment Agency.
- Dwyrdd Otter Partnership. 2006. Compilation of Studies Carried out by the Dwyrdd Otter Partnership 2000 to 2006. Funded by Countryside Council for Wales, Snowdonia National Park Authority, Environment Agency Wales, Species Challenge Fund.
- Findlay M, Alexander L, Macleod C. 2015. Site condition monitoring for otters (*Lutra lutra*) in 2011-12. Scottish Natural Heritage Commissioned Report No. 521.
- 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.
- Harris S, Yalden D. 2008. Mammals of the British Isles: Handbook. Hobbs GI, Chadwick EA, Bruford MW, Slater FM. 2011 Bayesian clustering techniques and progressive partitioning to identify population structuring within a recovering otter population in the UK. *Journal of Applied Ecology* Volume 48, Issue 5, pages 1206-1217.
- Jefferies DJ. 1989. The changing otter population of Britain 1700-1989. *Biological Journal of the Linnean Society* 38, 61-69.
- Jefferies DJ, Strachan C, Strachan R. 2003. Estimating numbers of the three interacting riparian mammals in Britain using survey data. In: Jefferies DJ. (Ed) *The water vole and mink survey of 1996-1998 with a history of the long-term changes in the status of both species and their causes.* pp188-197. Vincent Wildlife Trust, Ledbury.
- Jones T, Jones D. 2004. Otter Survey of Wales 2002. Environment Agency, Bristol. Available from : www.environment-agency.gov.uk/subjects/conservation/483249/?version=1&lang=_e
- Kean E, Lyons G, Chadwick EA. 2013. Persistent organic pollutants and indicators of otter health, CHEMTrust.
- Kruuk H. 1995. *Wild otters: Predation and populations.* Oxford University Press, Oxford.
- Liles G. 2003. *Conserving Natura 2000 Rivers Conservation Techniques Series No. 5: Otter Breeding Sites - Conservation and Management.* English Nature, Peterborough.
- Liles G. 2006. Current and potential distribution, condition and breeding success of the otter *Lutra lutra* in the River Wye SAC and catchment (within Wales), CCW Environmental Monitoring Report No. 30. Unpublished report & Confidential Annex to CCW Bangor
- Maltby E, Ormerod S, Acreman M, Blackwell M, Durance I, Everard M, Morris J, Spray C. 2011. *Freshwaters - Openwaters, Wetlands and Floodplains in: The UK National Ecosystem Assessment Technical Report.* UK National Ecosystem Assessment, UNEP-WCMC, Cambridge.
- Mathews F, Kubasiewicz LM, Gurnell J, Harrower C, McDonald R, Shore R. 2018. A review of the population and conservation status of British Mammals. A report by The Mammal Society under contract to Natural England, Natural Resources Wales and Scottish Natural Heritage.
- Pountney A, Stevens JR, Sykes T, Tyler CR. 2009. Population Genetics and PBDE Analysis of English and Welsh Otters. Science Report SC040024/SR1. Environment Agency.
- Scottish Natural Heritage (SNH). 2015. Trend Note. Trends of Otters in Scotland: Prepared Using Evidence from the Otter Survey of Scotland by Leonie Alexander & Melanie Findlay.
- Strachan R. 2007. National survey of otter *Lutra lutra* distribution in Scotland

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

2003-04. Scottish Natural Heritage Commissioned Report No. 211, Scottish Natural heritage.

Strachan R. 2009. Otter Survey of Wales. Environment Agency Wales, Cardiff.

Strachan R. 2015. Otter survey of Wales 2009-10.

National Assembly Wales. 2015. Water quality in Wales. A quick guide. November 2015.

NRW. 2015. Water Watch Wales maps gallery. Cycle 2 waterbodies and rivers.

NRW. 2016c. NRW Board paper. Priorities for Delivering Water Framework Directive (WFD) requirements: Agricultural Pollution Issues - and the implications for natural resource management Paper Reference: NRW B B 46.16.

APEM. (2015). River Dee Otter Survey. APEM Scientific Report 413492 to Natural England.

Morgan, P.L. (2004). Current and potential distribution, condition and breeding success of the otter (*Lutra lutra*) in the River Dee catchment. Report FC 72-02-56 prepared for the Countryside Council for Wales, 46pp.

N.Ireland

CHAPMAN, P.J. & CHAPMAN, L.L. 1982. Otter Survey of Ireland 1980-1981. The Vincent Wildlife Trust.

PRESTON, J., PRODHOL, P., PORTIG, A. & MONTGOMERY, I. 2004. Reassessing otter *Lutra lutra* distribution in Northern Ireland. Environment and Heritage Service Research and Development Series. No. 06/24. Available to download from the Environment and Heritage Service website ([Hwww.ehsni.gov.uk/pubs/publications/otterreportNov2004.pdf](http://www.ehsni.gov.uk/pubs/publications/otterreportNov2004.pdf)).

PRESTON, S.J & REID, N.2010. Northern Ireland Otter Survey. Report prepared by the Natural Heritage Research Partnership, Quercus, Queen's University Belfast for the Northern Ireland Environment Agency. Northern Ireland Report on the main results of the surveillance under article 11 for annex II, IV and V species (Annex B) Environment Agency Research and Development Series No. 11/06.

Cooper, A., McCann, T. and Rogers, D. (2009) Northern Ireland Countryside Survey 2007: Broad Habitat Change 1998-2007. Northern Ireland Environment Agency Research and Development Series No. 09/06

Unpublished data. (2010-2015) CSM Survey Presence/Absence (% Coverage).

NIEA. Natural Heritage. DoE.

Northern Ireland Species Action Plan-Otter (*Lutra lutra*)-2008. DOE NIEA Publication.

Department of the Environment (2002) Northern Ireland Biodiversity Strategy.

REID, N., HAYDEN, B., LUNDY, M.G., PIETRAVALLE, S., MCDONALD, R.A. & Montgomery, w.i. (2012) National Otter Survey of Ireland 2010/12. Prepared by Quercus, Queen's University Belfast for the National Parks and Wildlife Service, Department of Arts, Heritage and Gaeltacht, Dublin, Ireland.

MARK HORTON & DAVID BELL (2017) Ballinderry River Otter (*Lutra lutra*) Survey 2016. Prepared by the Ballinderry Rivers Trust for CEDaR and NIEA.

5. Range

5.1 Surface area (km ²)	239701
5.2 Short-term trend Period	2013-2018
5.3 Short-term trend Direction	Stable (0)
5.4 Short-term trend Magnitude	a) Minimum b) Maximum
5.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
5.6 Long-term trend Period	
5.7 Long-term trend Direction	

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

5.8 Long-term trend Magnitude	a) Minimum	b) Maximum
5.9 Long-term trend Method used		
5.10 Favourable reference range	a) Area (km ²)	239701
	b) Operator	
	c) Unknown	
	d) Method	<p>The FRR has changed since 2013. The new value is considered to be large enough to support a viable population and no lower than the range estimate when the Habitats Directive came into force in the UK. For further information see the 2019 Article 17 UK Approach document.</p> <p>The 2013 FRR value has been revised and is equal to the current range. The current range surface area has been calculated using the method outlined in Mathews et al. (2018) and is based on presence data collected between 1995-2016. Areas that contain very isolated records may not have been included in the area of distribution.</p> <p>The new, more robust method of calculating range has reduced estimated range size for this species since 2013. This does not represent a real reduction in range.</p>
5.11 Change and reason for change in surface area of range	<p>Genuine change</p> <p>Use of different method</p> <p>The change is mainly due to: Use of different method</p>	
5.12 Additional information	<p>Trend in range has been assessed by using the 2019 distribution data and the 2013 method for calculating range and comparing the result with range surface area in 2013. For further information see the 2019 Article 17 UK Approach document and country assessments.</p>	

6. Population

6.1 Year or period	1994-2018	
6.2 Population size (in reporting unit)	a) Unit	number of map 1x1 km grid cells (grids1x1)
	b) Minimum	
	c) Maximum	
	d) Best single value	21441
6.3 Type of estimate	Minimum	
6.4 Additional population size (using population unit other than reporting unit)	a) Unit	number of individuals (i)
	b) Minimum	
	c) Maximum	
	d) Best single value	12600
6.5 Type of estimate	Best estimate	
6.6 Population size Method used	Based mainly on extrapolation from a limited amount of data	

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

6.7 Short-term trend Period	2001-2018
6.8 Short-term trend Direction	Stable (0)
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.10 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
6.11 Long-term trend Period	
6.12 Long-term trend Direction	
6.13 Long-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval
6.14 Long-term trend Method used	Based mainly on extrapolation from a limited amount of data
6.15 Favourable reference population (using the unit in 6.2 or 6.4)	<div> <div>a) Population size</div> <div>b) Operator</div> <div>c) Unknown</div> <div>d) Method</div> </div> <div> 11995 with unit number of individuals (i) The FRP is the same as in 2013 i.e. 11,995 individuals. The value is considered to be large enough to support a viable population and no less than when the Habitats Directive came into force in the UK. For further information see the 2019 Article 17 UK Approach document. </div>
6.16 Change and reason for change in population size	Genuine change Improved knowledge/more accurate data Use of different method No information on nature of change The change is mainly due to: Use of different method
6.17 Additional information	<p>The new population estimate for this species in the UK is lower than the previous estimate in 2013. This is not a real decrease, but due to a change in method for estimating populations.</p> <p>Estimates of population size for GB have been taken from Mathews et al. (2018) and are considered to be more robust than previous estimates. Northern Ireland data have been added to the GB estimate to obtain a UK population estimate.</p> <p>The current population is considered to be above the FRP, is stable and is sufficient to maintain a viable population.</p>

7. Habitat for the species

7.1 Sufficiency of area and quality of occupied habitat	<div> <div>a) Are area and quality of occupied habitat sufficient (for long-term survival)?</div> <div>b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?</div> </div> <div> Yes </div>
---	--

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

7.2 Sufficiency of area and quality of occupied habitat Method used	Based mainly on extrapolation from a limited amount of data
7.3 Short-term trend Period	1995-2018
7.4 Short-term trend Direction	Stable (0)
7.5 Short-term trend Method used	Based mainly on extrapolation from a limited amount of data
7.6 Long-term trend Period	
7.7 Long-term trend Direction	
7.8 Long-term trend Method used	
7.9 Additional information	There is no reliable measure of the quality of the occupied habitat, but the population and range trends for the species are considered relatively stable. Therefore, the area and quality of occupied habitat are likely to be sufficient to maintain the species at FCS.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Modification of hydrological flow or physical alteration of water bodies for agriculture (excluding development and operation of dams) (A33)	M
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	H
Illegal shooting/killing (G10)	M
Bycatch and incidental killing (due to fishing and hunting activities) (G12)	H
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Mixed source marine water pollution (marine and coastal) (J02)	M
Threat	Ranking
Use of plant protection chemicals in agriculture (A21)	M
Modification of hydrological flow or physical alteration of water bodies for agriculture (excluding development and operation of dams) (A33)	H
Roads, paths, railroads and related infrastructure (e.g. bridges, viaducts, tunnels) (E01)	H
Illegal shooting/killing (G10)	M
Bycatch and incidental killing (due to fishing and hunting activities) (G12)	H
Mixed source pollution to surface and ground waters (limnic and terrestrial) (J01)	M
Mixed source marine water pollution (marine and coastal) (J02)	H
Abstraction from groundwater, surface water or mixed water (K01)	M

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

8.2 Sources of information

8.3 Additional information

9. Conservation measures

9.1 Status of measures

- a) Are measures needed? Yes
- b) Indicate the status of measures Measures identified and taken

9.2 Main purpose of the measures taken

Maintain the current range, population and/or habitat for the species

9.3 Location of the measures taken

Both inside and outside Natura 2000

9.4 Response to the measures

Medium-term results (within the next two reporting periods, 2019-2030)

9.5 List of main conservation measures

Other measures related to agricultural practices (CA16)

Reduce impact of transport operation and infrastructure (CE01)

Manage water abstraction for public supply and for industrial and commercial use (CF11)

Management of professional/commercial fishing (including shellfish and seaweed harvesting) (CG01)

Control/eradication of illegal killing, fishing and harvesting (CG04)

Reduce bycatch and incidental killing of non-target species (CG05)

Reduce impact of mixed source pollution (CJ01)

Reduce impact of multi-purpose hydrological changes (CJ02)

Improvement of habitat of species from the directives (CS03)

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters

- a) Range Good
- b) Population Good
- c) Habitat of the species Good

10.2 Additional information

Future trend in Range is Overall stable; Future trend in Population is Overall stable; and Future trend in Habitat for the species is Overall stable. For further information on how future trends inform the Future Prospects conclusion see the 2019 Article 17 UK Approach document.

11. Conclusions

11.1. Range

Favourable (FV)

11.2. Population

Favourable (FV)

11.3. Habitat for the species

Favourable (FV)

11.4. Future prospects

Favourable (FV)

11.5 Overall assessment of Conservation Status

Favourable (FV)

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

11.6 Overall trend in Conservation Status

Stable (=)

11.7 Change and reasons for change in conservation status and conservation status trend

a) Overall assessment of conservation status

No change

The change is mainly due to:

b) Overall trend in conservation status

Genuine change

Improved knowledge/more accurate data

Use of different method

The change is mainly due to: Genuine change

11.8 Additional information

Conclusion on Range reached because: (i) the short-term trend direction in Range surface area is stable; and (ii) the current Range surface area is approximately equal to the Favourable Reference Range.

Conclusion on Population reached because: (i) the short-term trend direction in Population size is stable; and (ii) the current Population size is greater than the Favourable Reference Population.

Conclusion on Habitat for the species reached because: (i) the area of occupied habitat is sufficiently large and (ii) the habitat quality is suitable for the long-term survival of the species; and (iii) the short-term trend in area and quality of habitat is stable.

Conclusion on Future prospects reached because: (i) the Future prospects for Range are good; (ii) the Future prospects for Population are good; and (iii) the Future prospects for Habitat for the species are good.

Overall assessment of Conservation Status is Favourable because all of the conclusions are Favourable.

Overall trend in Conservation Status is based on the combination of the short-term trends for Range – stable, Population – stable, and Habitat for the species – stable.

Overall assessment of conservation status is the same as in 2013.

Overall trend in conservation status has changed since 2013 because trend in range has changed from increasing to stable, trend in population has changed from increasing to stable and trend in habitat for the species has changed from increasing to stable.

12. Natura 2000 (pSCIs, SCIs and SACs) coverage for Annex II species

12.1 Population size inside the pSCIs, SCIs and SACs network (on the biogeographical/marine level including all sites where the species is present)

- a) Unit
- b) Minimum
- c) Maximum
- d) Best single value

12.2 Type of estimate

Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

12.3 Population size inside the network Method used

Insufficient or no data available

12.4 Short-term trend of population size within the network Direction

Uncertain (u)

12.5 Short-term trend of population size within the network Method used

Based mainly on extrapolation from a limited amount of data

12.6 Additional information

It has not been possible to monitor numbers on all SACs in the UK and there is currently no available robust data on other populations in UK SACs.

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

Distribution Map

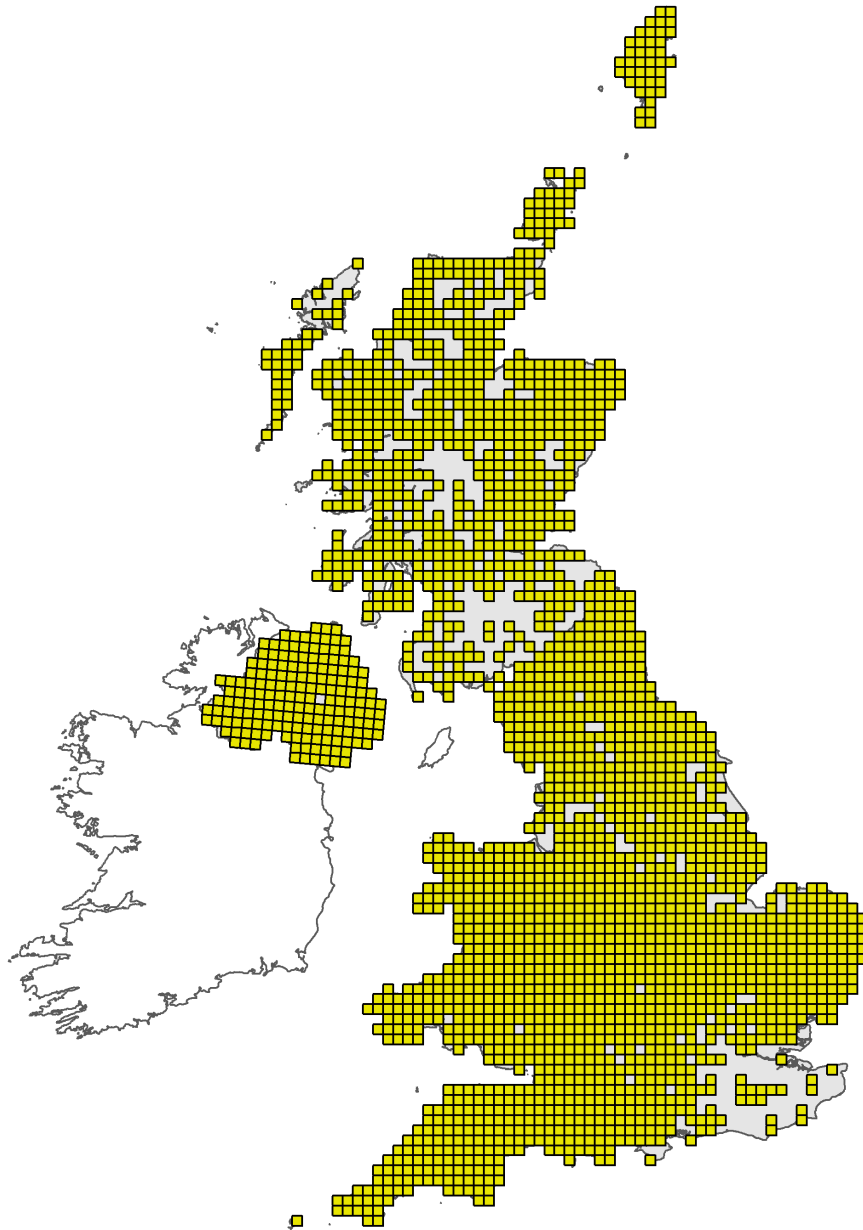


Figure 1: UK distribution map for S1355 - Otter (*Lutra lutra*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The 10km grid square distribution map is based on available species records within the current reporting period. For further details see the 2019 Article 17 UK Approach document.

Range Map

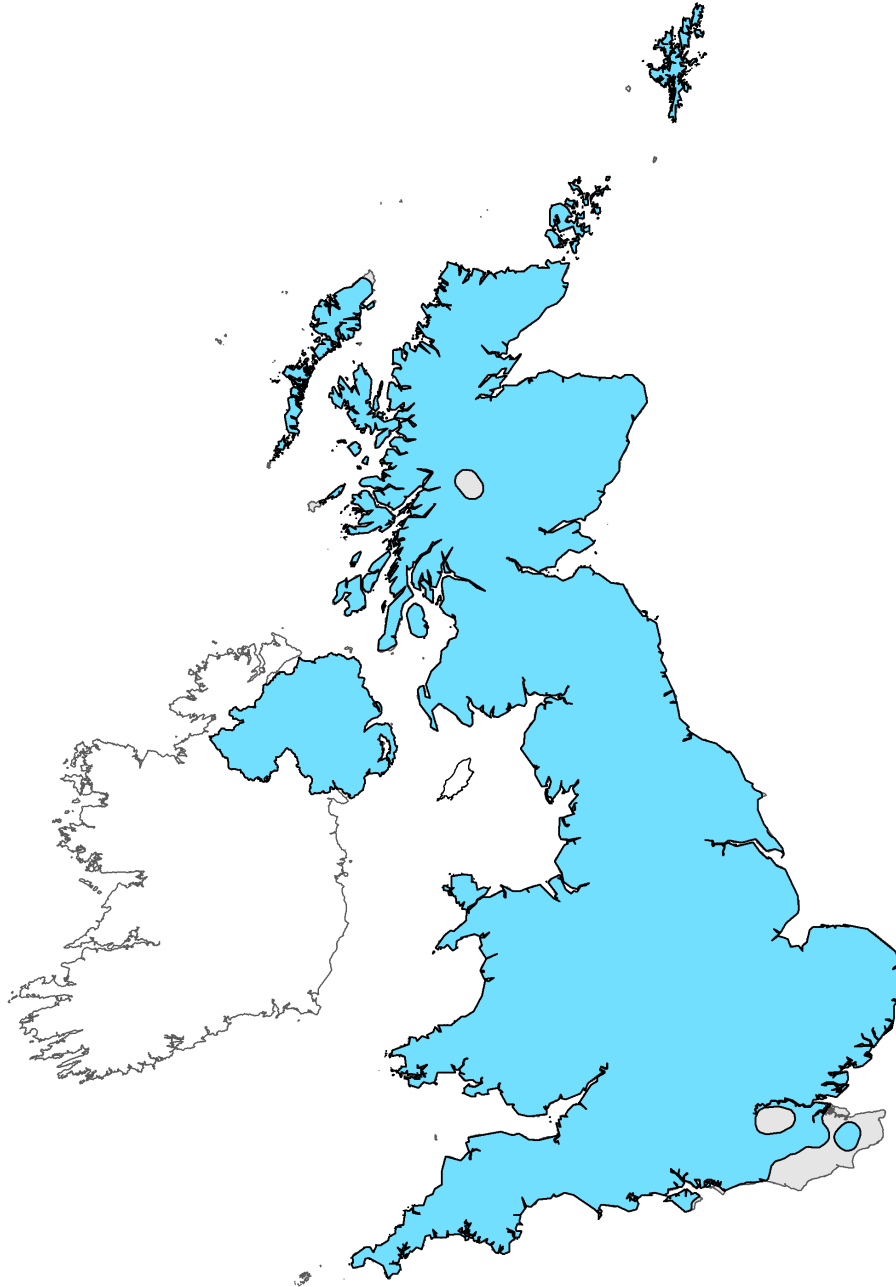


Figure 2: UK range map for S1355 - Otter (*Lutra lutra*). Coastline boundary derived from the Oil and Gas Authority's OGA and Lloyd's Register SNS Regional Geological Maps (Open Source). Open Government Licence v3 (OGL). Contains data © 2017 Oil and Gas Authority.

The range map has been produced by The Mammal Society applying a range mapping tool as outlined in Matthews et al. (2018), to the 10km grid square distribution map presented in Figure 1. The alpha value for this species was 20km. For further details see the 2019 Article 17 UK Approach document.

Explanatory Notes

Species name: Lutra lutra (1355) Region code: ATL

Field label	Note
6.2d Population size - Best single value	Calculated from the UK count of 1km squares where the species has been recorded. See 2019 Article 17 UK Approach document for further detail.
6.3 Type of estimate	This is a minimum count because it only includes number of recorded occupied 1km squares.