

**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:

S1441 - Shore dock (*Rumex rupestris*)

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	1441
1.3 Species scientific name	<i>Rumex rupestris</i>
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Shore dock

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2012-2017
2.3 Distribution map	Yes
2.4 Distribution map Method used	Complete survey or a statistically robust estimate
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?	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

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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

BENNALLICK, I., 2018. Rumex rupestris survey. Unpublished report for Natural England

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KING, M. P. (1989). An investigation into the current status and ecology of the shore dock Rumex rupestris in Devon and Cornwall. M. Sc. Thesis, University College, London.

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KING, M. P., MCDONNELL, E. J., LEACH, S. J. & WIGGINGTON, M. J. (1999). Rumex rupestris le Gall, in WIGGINGTON, M. J. Ed. British Red Data Books. 1. Vascular Plants, pp 320-321. JNCC, Peterborough

LEACH S.J., McDONNELL, E.J., PARKER S.J., and REAY P. J. 2009. Rumex rupestris Le Gall at Soar Mill Cove, S. Devon. BSBI News 110: 27-29

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- SMITH R., HODGSON B. & ISON J. (2017). A New Flora of Devon. pp390-391 The Devonshire Association for the Advancement of Science, Literature & the Arts, Exeter.
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- Wales
- Bonner, I.R. (2007) Anglesey Rare Plant Register (revised edition). Botanical Society of the British Isles.
- Botanical Society of Britain & Ireland distribution database, <https://database.bsbi.org/>
- Creer, J. (2005) Abermenai - Aberffraw SAC. *R. rupestris* monitoring. (Countryside Council for Wales. Bangor.)
- Creer, J. (2012) in prep. Abermenai - Aberffraw SAC. *R. rupestris* monitoring. (Countryside Council for Wales. Bangor.)
- Daniels R.E. & Moy I.L. (1998) Species Recovery Programme Shore Dock (*Rumex rupestris* Le Gall) English Nature Report Project T08059V1. ITE Furzebrook. Dorset
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- Evans, S.B. Surveillance reports for each year of the Marloes populations 2001 - 2016 (Unpublished reports to Countryside Council for Wales & NRW . B.S.B.I.)
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	d) Best single value	603
6.3 Type of estimate	Minimum	
6.4 Additional population size (using population unit other than reporting unit)	<ul style="list-style-type: none"> a) Unit b) Minimum c) Maximum d) Best single value 	
6.5 Type of estimate		
6.6 Population size Method used	Complete survey or a statistically robust estimate	
6.7 Short-term trend Period	2007-2018	
6.8 Short-term trend Direction	Stable (0)	
6.9 Short-term trend Magnitude	<ul style="list-style-type: none"> a) Minimum b) Maximum c) Confidence interval 	
6.10 Short-term trend Method used	Complete survey or a statistically robust estimate	
6.11 Long-term trend Period	1994-2017	
6.12 Long-term trend Direction	Uncertain (u)	
6.13 Long-term trend Magnitude	<ul style="list-style-type: none"> a) Minimum b) Maximum c) Confidence interval 	
6.14 Long-term trend Method used		
6.15 Favourable reference population (using the unit in 6.2 or 6.4)	<ul style="list-style-type: none"> a) Population size b) Operator c) Unknown d) Method 	<p>350 with unit number of individuals (i)</p> <p>The FRP is the same as in 2013. The 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>
6.16 Change and reason for change in population size	<p>No change</p> <p>The change is mainly due to:</p>	
6.17 Additional information	This species is known to experience natural fluctuations in population size.	

7. Habitat for the species

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

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7.2 Sufficiency of area and quality of occupied habitat Method used	Based mainly on expert opinion with very limited data
7.3 Short-term trend Period	2007-2017
7.4 Short-term trend Direction	Unknown (x)
7.5 Short-term trend Method used	Based mainly on expert opinion with very limited data
7.6 Long-term trend Period	
7.7 Long-term trend Direction	
7.8 Long-term trend Method used	
7.9 Additional information	The dynamic processes associated with the coastal habitat of this species (such as, coastal erosion and sand removal) make the assessment of the sufficiency of habitat for this species uncertain.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Other forestry activities, excluding those relating to agro-forestry (B29)	M
Other human intrusions and disturbance not mentioned above (H08)	M
Collapse of terrain, landslide (M05)	H
Droughts and decreases in precipitation due to climate change (N02)	M
Sea-level and wave exposure changes due to climate change (N04)	H
Threat	Ranking
Other forestry activities, excluding those relating to agro-forestry (B29)	M
Other human intrusions and disturbance not mentioned above (H08)	M
Collapse of terrain, landslide (M05)	H
Droughts and decreases in precipitation due to climate change (N02)	M
Sea-level and wave exposure changes due to climate change (N04)	H

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	

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9.3 Location of the measures taken	Only inside 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	

Adapt/change forest management and exploitation practices (CB05)
Management, control or eradication of other invasive alien species (CI03)
Management of problematic native species (CI05)
Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes (CL01)
Minimise/prevent impacts of geological and natural catastrophes (CL02)
Reinforce populations of species from the directives (CS01)
Improvement of habitat of species from the directives (CS03)

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters	a) Range	Poor
	b) Population	Unknown
	c) Habitat of the species	Unknown

10.2 Additional information	Future trend of Range is Overall stable; Future trend of Population is Unknown; and Future trend of Habitat for the species is Negative - decreasing $\leq 1\%$ (one percent or less) per year on average. For further information on how future trends inform the Future Prospects conclusion see the 2019 Article 17 UK Approach document.
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11. Conclusions

11.1. Range	Unfavourable - Inadequate (U1)
11.2. Population	Favourable (FV)
11.3. Habitat for the species	Unknown (XX)
11.4. Future prospects	Unknown (XX)
11.5 Overall assessment of Conservation Status	Unfavourable - Inadequate (U1)
11.6 Overall trend in Conservation Status	Unknown (x)
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 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 decreasing by 1% per year or less; and (ii) the current

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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 S1441 - Shore dock (*Rumex rupestris*). 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 S1441 - Shore dock (*Rumex rupestris*). 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 applying a bespoke range mapping tool for Article 17 reporting (produced by JNCC) 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.