

Report under The Conservation of Habitats and  
Species Regulations 2017 (as amended),  
Regulation 9A

**2019-2024**

Conservation status assessment for the species:

**S1016 - Desmoulin's whorl snail**

***(Vertigo moulinsiana)***

**England**



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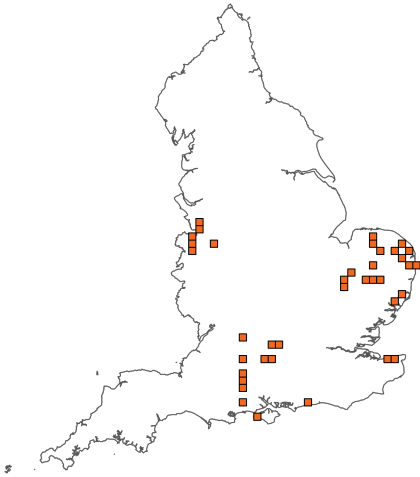
### **Important note - Please read**

- The information in this document represents the England Report under The Conservation of Habitats and Species Regulations 2017 (as amended), Regulation 9A, for the period 2019-2024.
- It is based on supporting information provided by Natural England, which is documented separately.
- The Habitats Regulations reporting 2019-2024 Approach Document provides details on how this supporting information contributed to the UK Report and the fields that were completed for each parameter.
- Maps showing the distribution and range of the species are included.
- Explanatory notes (where provided) are included at the end. These provide additional audit trail information to that included within the assessments. Further underpinning explanatory notes are available in the related country 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 National Site Network coverage for Annex II species).

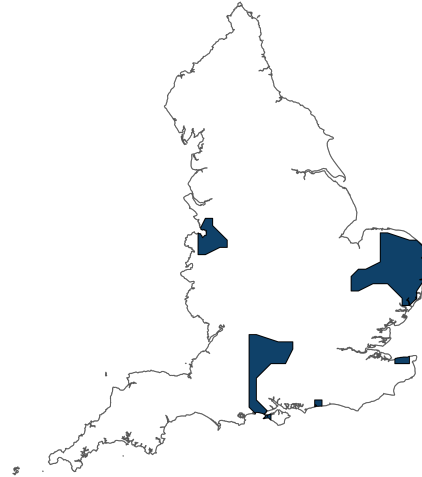
Further details on the approach to the Habitats Regulations Reporting 2019-2024 are available on the [JNCC website](#).

## Assessment Summary: Desmoulin's whorl snail

### Distribution Map



### Range Map



**Figure 1:** England distribution and range map for S1016 - Desmoulin's whorl snail (*Vertigo moulinsiana*). 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.

**Table 1:** Table summarising the conservation status for S1016 - Desmoulin's whorl snail (*Vertigo moulinsiana*). Overall conservation status for species is based on assessments of range, population, habitat for the species, and future prospects.

### Overall Conservation Status (see section 11)

**Unfavourable-bad (U2)**

### Breakdown of Overall Conservation Status

**Range** (see section 5)

**Favourable (FV)**

**Population** (see section 6)

**Unfavourable-bad (U2)**

**Habitat for the species** (see section 7)

**Unknown (XX)**

**Future prospects** (see section 10)

**Unknown (XX)**

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## National Level

### 1. General information

1.1 Country	England
1.2 Species code	S1016
1.3 Species scientific name	<i>Vertigo moulinsiana</i>
1.4 Alternative species scientific name	
1.5 Common name	Desmoulin's whorl snail
Annex(es)	II

### 2. Maps

2.1 Sensitive species	No
2.2 Year or period	1994-2024
2.3 Distribution map	Yes
2.4 Distribution map; Method used	Based mainly on expert opinion with very limited data

#### 2.5 Additional information

The mapped data are based on current knowledge of the presence of the species, though not all populations may have been surveyed within the reporting period 2019-24.

### 3. Information related to Annex V Species

#### 3.1 Is the species taken in the wild / exploited?

#### 3.2 What measures have been taken?

##### a) Regulations regarding access to property

##### b) Temporary or local prohibition on the taking of specimens in the wild and exploitation

##### c) Regulation of the periods and/or methods of taking specimens

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**d) Application of hunting and fishing rules which take account of the conservation of such populations**

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**e) Establishment of a system of licences for taking specimens or of quotas**

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**f) Regulation of the purchase, sale, offering for sale, keeping for sale, or transport for sale of specimens**

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**g) Breeding in captivity of animal species as well as artificial propagation of plant species**

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**Other measures**

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**Other measures description**

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

**a) Unit**

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**Table 2:** Quantity taken from the wild during the reporting period (see 3.3a for units). For species with defined hunting seasons, Season 1 refers to 2018/2019 (autumn 2018 to spring 2019), and Season 6 to 2023/2024. For species without hunting seasons, data are reported by calendar year: Year 1 is 2019, and Year 6 is 2024.

	Season/ year 1	Season/ year 2	Season/ year 3	Season/ year 4	Season/ year 5	Season/ year 6
<b>b) Minimum</b>	-	-	-	-	-	-
<b>c) Maximum</b>	-	-	-	-	-	-
<b>d) Unknown</b>	-	-	-	-	-	-

---

**3.4: Hunting bag or quantity taken in the wild; Method used**

**3.5: Additional information**

No additional information

## Biogeographical Level

### 4. Biogeographical and marine regions

4.1 Biogeographical or marine region where the species occurs ATL

#### 4.2 Sources of information

See section 14 References

### 5. Range

5.1 Surface area (km <sup>2</sup> )	10,213
5.2 Short-term trend; Period	2013-2024
5.3 Short-term trend; Direction	Stable
5.4 Short-term trend; Magnitude	
a) Estimated minimum	
b) Estimated maximum	
c) Pre-defined range	
d) Unknown	
e) Type of estimate	
f) Rate of decrease	
5.5 Short-term trend; Method used	Based mainly on expert opinion with very limited data
5.6 Long-term trend; Period	
5.7 Long-term trend; Direction	
5.8 Long-term trend; Magnitude	
a) Minimum	
b) Maximum	
c) Rate of decrease	

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**5.9 Long-term trend; Method used**

**5.10 Favourable Reference Range (FRR)**

**a) Area (km<sup>2</sup>)**

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<b>b) Pre-defined increment</b>	Current range is less than 2% smaller than the FRR
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<b>c) Unknown</b>	No
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<b>d) Method used</b>	Reference-based approach
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<b>e) Quality of information</b>	low
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**5.11 Change and reason for change in surface area of range**

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<b>a) Change</b>	No
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**b) Genuine change**

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**c) Improved knowledge or more accurate data**

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**d) Different method**

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**e) No information**

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**f) Other reason**

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**g) Main reason**

**5.12 Additional information**

In the absence of systematic surveys of known English sites (2019-24), The Conchological Society of Great Britain and Ireland, and assessments under the Threatened Species Recovery Actions project (Natural England), consider the Range to have remained largely stable.

**6. Population**

**6.1 Year or period** 2019-2024

**6.2 Population size (in reporting unit)**

<b>a) Unit</b>	number of map 1x1 km grid cells
<b>b) Minimum</b>	38
<b>c) Maximum</b>	61
<b>d) Best single value</b>	
<b>6.3 Type of estimate</b>	Best estimate
<b>6.4 Quality of extrapolation to reporting unit</b>	moderate
<b>6.5 Additional population size (using population unit other than reporting unit)</b>	
<b>a) Unit</b>	number of map 10x10 km grid cells
<b>b) Minimum</b>	
<b>c) Maximum</b>	
<b>d) Best single value</b>	38
<b>e) Type of estimate</b>	
<b>6.6 Population size; Method used</b>	Based mainly on expert opinion with very limited data
<b>6.7 Short-term trend; Period</b>	2013-2024
<b>6.8 Short-term trend; Direction</b>	Stable
<b>6.9 Short-term trend; Magnitude</b>	
<b>a) Estimated minimum</b>	
<b>b) Estimated maximum</b>	
<b>c) Pre-defined range</b>	
<b>d) Unknown</b>	
<b>e) Type of estimate</b>	
<b>f) Rate of decrease</b>	
<b>6.10 Short-term trend; Method used</b>	Based mainly on expert opinion with very limited data
<b>6.11 Long-term trend; Period</b>	

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**6.12 Long-term trend;  
Direction**

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**6.13 Long-term trend;  
Magnitude**

**a) Minimum**

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**b) Maximum**

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**c) Confidence interval**

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**d) Rate of decrease**

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**6.14 Long-term trend; Method  
used**

**6.15 Favourable Reference Population (FRP)**

**ai) Population size**

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**aii) Unit**

**b) Pre-defined increment**                      Current population is between 51% and 100%  
smaller than the FRP

---

**c) Unknown**    No

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**d) Method used**    Reference-based approach

---

**e) Quality of information**    low

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**6.16 Change and reason for change in population size**

**a) Change**    No

---

**b) Genuine change**

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**c) Improved knowledge or  
more accurate data**

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**d) Different method**

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**e) No information**

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**f) Other reason**

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**g) Main reason**

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**6.17 Additional information**

Population size of 38 1x1km cells (monads) estimated by extrapolating from the number of 10x10km cells, assuming a minimum of one monad in each hectad. This estimate will underestimate the size of populations in hectads with multiple occupied monads.

In 2013-18, the population of Demoulin’s Whorl Snail was estimated as 30 hectads and 50 monads (for data 2007-2018), indicating a mean occupancy of 1.7 monads per hectad (JNCC 2019). If this monad occupancy is extrapolated to 2013-24, this gives an upper estimate of 65 monads. The last period’s value of 50 monads falls within the range of 38 to 65 monads, implying a stable short term trend.

The number of 10x10km cells was based on mapped data for 2010-24 and assessed by expert opinion as the current, extant distribution of the species.

**6.18 Age structure, mortality and reproduction deviation**      Unknown

**7. Habitat for the species**

**7.1 Sufficiency of area and quality of occupied habitat (for long-term survival)**

**a) Is area of occupied habitat sufficient?**      Unknown

**b) Is quality of occupied habitat sufficient?**      Unknown

**c) If No or Unknown, is there a sufficiently large area of unoccupied habitat of suitable quality?**      Unknown

**7.2 Sufficiency of area and quality of occupied habitat; Method used**

**a) Sufficiency of area of occupied habitat; Method used**      Insufficient or no data available

**b) Sufficiency of quality of occupied habitat; Method used**      Insufficient or no data available

**7.3 Short-term trend; Period**      2013-2024

**7.4 Short-term trend; Direction**      Uncertain

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**7.5 Short-term trend; Method used**      Insufficient or no data available

**7.6 Long-term trend; Period**

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**7.7 Long-term trend; Direction**

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**7.8 Long-term trend; Method used**

**7.9 Additional information**

In the current period (2019-2024) there have been inadequate systematic surveys of *Vertigo moulinsiana* and its habitat to be able to inform habitat status.

## 8. Main pressures

### 8.1 Characterisation of pressures

**Table 3:** Pressures affecting the species, including timing and importance/impact ranking. Pressures are defined as factors acting currently and/or during the reporting period (2019–2024). Rankings are: High (direct/immediate influence and/or large spatial extent) and Medium (moderate direct/immediate influence, mainly indirect and/or regional extent).

Pressure	Timing	Ranking
PA06: Mowing or cutting of grasslands	Ongoing and likely to be in the future	Medium (M)
PA17: Agricultural activities generating pollution to surface or ground waters (including marine)	Ongoing and likely to be in the future	Medium (M)
PJ03: Changes in precipitation regimes due to climate change	Ongoing and likely to be in the future	High (H)
PF17: Active abstraction of water for built-up areas	Ongoing and likely to be in the future	High (H)

### 8.2 Sources of information

See section 14 References

### 8.3 Additional information

No additional information

## 9. Conservation measures

### 9.1: Status of measures

a) Are measures needed? Yes

b) Indicate the status of measures Measures identified, but none yet taken

### 9.2 Main purpose of the measures taken

### 9.3 Location of the measures taken

### 9.4 Response to measures

### 9.5 List of main conservation measures

**Table 4:** Key conservation measures addressing current pressures and/or anticipated threats during the next two reporting periods (2025–2036). Measures are ranked by importance/impact: High (direct/immediate influence and/or large spatial extent) and Medium (moderate direct/immediate influence, mainly indirect and/or regional extent).

Conservation measure	Ranking
MA06: Stop mowing, grazing and other equivalent agricultural activities e.g. burning (incl. restore or improve habitats)	Medium (M)
MF09: Adapt the management of water abstraction for public supply and for industrial and commercial use to reduce negative impacts on habitats and species (incl. restoration of habitats)	High (H)
MJ02: Implement climate change adaptation measures	Medium (M)
MK03: Restoration of habitats impacted by multi-purpose hydrological changes	High (H)

### 9.6 Additional information

It is uncertain whether conservation measures have been implemented for *Vertigo moulinsiana* in the current period, therefore their status 'Measures identified, but none yet taken' is repeated from the previous report (2013-18).

## 10. Future prospects

### 10.1a Future trends of parameters

<b>ai) Range</b>	Unknown
<b>bi) Population</b>	Unknown
<b>ci) Habitat for the species</b>	Unknown

### 10.1b Future prospects of parameters

<b>aii) Range</b>	Unknown
<b>bii) Population</b>	Unknown
<b>cii) Habitat for the species</b>	Unknown

### 10.2 Additional information

Future trends assessed as Unknown (Table D1) as balance between pressures and conservation measures is too uncertain. This results in all Future prospects being Unknown.

## 11. Conclusions

<b>11.1 Range</b>	Favourable (FV)
<b>11.2 Population</b>	Unfavourable-bad (U2)
<b>11.3 Habitat for the species</b>	Unknown (XX)
<b>11.4 Future prospects</b>	Unknown (XX)
<b>11.5 Overall assessment of Conservation Status</b>	Unfavourable-bad (U2)
<b>11.6 Overall trend in Conservation Status</b>	Unknown

### 11.7 Change and reason for change in conservation status

This field is not reported as the period 2019-2024 marks the first instance in which conservation status has been assessed at the national level, meaning no comparisons to previous reports can be drawn.

### 11.7 Change and reason for change in conservation status trend

This field is not reported as the period 2019-2024 marks the first instance in which conservation status has been assessed at the national level, meaning no comparisons to previous reports can be drawn.

### 11.8 Additional information

Vertigo moulinsiana conservation status was assessed as overall - Unfavourable - Bad (due to Population - Bad; Tab. 1A), with overall conservation trend - Unknown (as trend for Range and Population - Stable, but Habitat Unknown; Tab. 1B lacks option for this combination so as precautionary set to Unknown).

Range - Favourable (Tab. 1A, 2A) as current period (2019-24) not more than 2% less than favourable range and short-term trend Stable (Tab. 1A, 2B).

Population - Unfavourable -Bad (Tab. 1A, 2B) as >25% below Favourable Reference Population; short-term trend stable as monads for previous period (2013-18) fall within range of estimates for 2019-2024.

Habitat (Tab. 1A) - status Unknown as insufficient data on area or quality of habitat sufficient for population persistence (Tab. C1) and short-term trend unknown (Tab. C3).

Future Prospects conclusion (Tab. D2) - Unknown, as Future Prospects of Range, Population and Habitat all Unknown (Tab. D1) because balance of pressures and conservation measures are too uncertain.

## 12. UK National Site Network (pSCIs, SCIs, SACs) coverage for Annex II species

### 12.1 Population size inside the pSCIs, SCIs and SACs network

a) Unit number of map 1x1 km grid cells

b) Minimum

c) Maximum

d) Best single value

### 12.2 Type of estimate

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 Unknown

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

Insufficient or no data available

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**12.6 Short-term trend of habitat for the species inside the pSCIs, SCIs and SACs network; Direction**

Unknown

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**12.7 Short-term trend of habitat for the species inside the pSCIs, SCIs and SACs network; Method used**

Insufficient or no data available

### **12.8 Additional information**

No. of monads in UK National Site Network has not been calculated for 2019-2024.

## **13. Complementary information**

### **13.1 Justification of percentage thresholds for trends**

No justification information

### **13.2 Trans-boundary assessment**

No trans-boundary assessment information

### **13.2 Other relevant information**

No other relevant information

## 14. References

### Biogeographical and marine regions

#### 4.2 Sources of information

Seddon MB, Killeen IJ & Fowles AP (2014) A Review of the Non-Marine Mollusca of Great Britain: Species Status No. 17. NRW Evidence Report No: 14, 84pp, Natural Resources Wales, Bangor.

Source of records for mapping: <https://nbnatlas.org/>, filtered for 'Conchological Society of Great Britain & Ireland: non-marine mollusc records' with manual removal of sub-fossil records and expert validation.

### Main pressures

#### 8.2 Sources of information

No sources of information

## 15. Explanatory Notes

Field label

Note

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No explanatory notes