

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	GR
1.2 Species code	1341
1.3 Species scientific name	Muscardinus avellanarius
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Vounomioxos

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2015
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	Yes

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

Mediterranean (MED)

4.2 Sources of information

Mitchell-Jones, A.J., Amori, G., Bogdanowicz, W., Krystufek, B., Reijnders, P.J.H., Spitzenberger, F., Stubbe, M., Thissen, J.B.M., Vohralik, V., Zima, J., 1999. The Atlas of European Mammals. Academic Press, London, UK. Niethammer J., 1974. Zur verbeitung und taxonomie greichischer saugertiere. Bonn Zoologische Beitrung 25: 28-55.

Ondrias, J.C., 1966. The taxonomy and geographical distribution of the rodents of Greece. Saugertierkundliche Mitteilungen 14: 1-136.

Botzorlos, 2009, The trophic ecology of barn owl in the agricultural ecosystems.

Amori, G., Hutterer, R., Kryštufek, B., Yigit, N., Mitsain, G., Meinig, H. & Juškaitis, R. 2008. Muscardinus avellanarius. The IUCN Red List of Threatened Species. Version 2014.3. <www.iucnredlist.org>. Downloaded on 23 November 2014.

5. Range

5.1 Surface area

95462

5.2 Short-term trend Period

2007-2018

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

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5.7 Long-term trend Direction		
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)	
	b) Operator	Approximately equal to (≈)
	c) Unknown	
	d) Method	Expert judgment
5.11 Change and reason for change in surface area of range	No change	
	The change is mainly due to:	

5.12 Additional information

6. Population

6.1 Year or period	2015
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 59404
6.3 Type of estimate	Best estimate
6.4 Additional population size (using population unit other than reporting unit)	a) Unit number of map 5x5 km grid cells (grids5x5)
	b) Minimum 1922
	c) Maximum 2262
	d) Best single value
6.5 Type of estimate	
6.6 Population size Method used	Based mainly on extrapolation from a limited amount of data
6.7 Short-term trend Period	2007-2018
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 expert opinion with very limited 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	

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6.15 Favourable reference population (using the unit in 6.2 or 6.4)

- a) Population size
- b) Operator Approximately equal to (\approx)
- c) Unknown
- d) Method Expert judgement.

6.16 Change and reason for change in population size

No change
The change is mainly due to:

6.17 Additional information

Method used for population estimates in 5X5 grid cells from ecological niche modelling: all 5X5 grid cells inside current species distribution were selected with probability of occurrence greater than 0,3 ($p > 0,3$) for minimum population estimate and greater than 0,2 ($p > 0,2$) for maximum population estimate. The population size in 6.2.d has been calculated in GIS using spatial information from the distribution data (10x10 km or smaller grids if additional data were available). Following the conversion of the available data in 1x1 km grid unit, marine or terrestrial grid cells have been deleted and thus excluded from the calculation, depending on the biogeographical region where the species occurs (MED or MMED, respectively).

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)? Yes
- b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?

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

2007-2018

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

The surface area of the habitat is estimated at 56550 km², the area of suitable habitat is 93975 km² and its quality is good. All 5X5 grid cells inside current species distribution with probability of occurrence greater than 0,2 ($p > 0,2$) were selected as a habitat estimate.

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05)	M

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Conversion into agricultural land (excluding drainage and burning) (A01) M

Threat Ranking

Fire (natural) (M09) H

Removal of small landscape features for agricultural land parcel consolidation (hedges, stone walls, rushes, open ditches, springs, solitary trees, etc.) (A05) H

Conversion from one type of agricultural land use to another (excluding drainage and burning) (A02) M

8.2 Sources of information PRESSURES: Mainly based on expert judgement and other data.

THREATS: Based on expert opinion.

8.3 Additional information

9. Conservation measures

9.1 Status of measures a) Are measures needed? No

b) Indicate the status of measures

9.2 Main purpose of the measures taken

9.3 Location of the measures taken

9.4 Response to the measures

9.5 List of main conservation measures

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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

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)

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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

No change

The change is mainly due to:

11.8 Additional information

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

12.3 Population size inside the network Method used

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

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

12.6 Additional information

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information