

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	1732
1.3 Species scientific name	Veronica oetaea
1.4 Alternative species scientific name	
1.5 Common name (in national language)	

2. Maps

2.1 Sensitive species	No
2.2 Year or period	2015
2.3 Distribution map	Yes
2.4 Distribution map Method used	Complete survey or a statistically robust estimate
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

Karetsos G. 2009. Veronica oetaea, In: The Red Data Book of rare and threatened plants of Greece, vol. 2 (E-Z), D. Phitos, T. Constantinidis & G. Kamari (eds), pp. 377-308, Hellenic Botanical Society, Patras. (In Greek).

5. Range

5.1 Surface area

0.09

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

Complete survey or a statistically robust estimate

5.6 Long-term trend Period

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 (km²)
b) Operator
c) Unknown
d) Method

Approximately equal to (≈)

The favourable reference range is based on the sum of the historic and the current distribution of the species (3 temporary ponds).

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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 individuals (i)
b) Minimum 225000
c) Maximum 468000
d) Best single value

6.3 Type of estimate

Best estimate

6.4 Additional population size (using population unit other than reporting unit)

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

Unknown (x)

6.9 Short-term trend Magnitude

a) Minimum
b) Maximum
c) Confidence interval

6.10 Short-term trend Method used

Insufficient or no data available

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

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

a) Population size 150000 with unit number of individuals (i)
b) Operator
c) Unknown
d) Method

Favourable reference population was set as 50,000 individuals per pond. Population size estimation were made in only 2 years and this is a dwarf annual species subject to large fluctuations. By expert opinion, a minimum value of 50000 individuals per pond (150000) individuals is adequate for the survival of the species provided that it maintains its distribution range.

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6.16 Change and reason for change in population size

No change
The change is mainly due to:

6.17 Additional information

The species is very small and, especially when forming thick stands, it is impossible to count individuals. Population size estimations were made in 50x50 cm plots systematically placed in 2x2 m plots covering the total area of the ponds. Individuals, when in thick stands, were photographed and counted by processing of the photos.

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

Complete survey or a statistically robust estimate

7.3 Short-term trend Period

2007-2018

7.4 Short-term trend Direction

Stable (0)

7.5 Short-term trend Method used

Complete survey or a statistically robust estimate

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 0.09 km² and its quality is good. The species is specialised to high altitude temporary ponds (habitat type 3170). The quality of the habitat was assessed on the basis of habitat composition (typical species) and structure (hydrological conditions).

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
No pressures (Xxp)	
Threat	Ranking
No threats (Xxt)	

8.2 Sources of information

8.3 Additional information

In fact, only LOW ranking pressures and threats act on the specific species and this is the reason why they are not included in 8.1, above.

9. Conservation measures

9.1 Status of measures

a) Are measures needed? **No**
b) Indicate the status of measures

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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)

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	number of individuals (i)
	b) Minimum	161800
	c) Maximum	313800
	d) Best single value	

12.2 Type of estimate Minimum

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12.3 Population size inside the network Method used

Complete survey or a statistically robust estimate

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

Unknown (x)

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

Insufficient or no data available

12.6 Additional information

Species for which either new Natura sites have been designated or former ones have been expanded to cover a bigger part of their populations. The population size in 12.1 is reported as minimum due to the recent update of the Greek Natura 2000 Database (extended areas of current Natura 2000 sites and newly proposed SCIs). No relevant data exist for the extensions or the new Natura 2000 sites.

13. Complementary information

13.1 Justification of % thresholds for trends

13.2 Trans-boundary assessment

13.3 Other relevant Information

Note on distribution map: *Veronica oetaea* is a stenoendemic species restricted to three high altitude temporary ponds on Mt Oiti. According to all available data these three ponds represent the only suitable habitat for the species on Mt Oiti, thus the distribution and range of the species would be highly overestimated of represented by grid cells. Note on 6.15. Population size estimation were made in only 2 years and this is a dwarf annual species subject to large fluctuations. By expert opinion, a minimum value of 50000 individuals per pond (150000) individuals is adequate for the survival of the species provided that it maintains its distribution range.

Note on pressures and threats: Low ranking pressures (not included here) "Reduction or loss of specific habitat features" refers to shrub encroachment at the temporary ponds which in the case of the temporary ponds where *Veronica oetaea* grows is a non-significant threat, mainly due to the geomorphology of the ponds.