

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

0.1 Member State	GR
0.2.1 Species code	6198
0.2.2 Species name	Centaurea princeps
0.2.3 Alternative species scientific name	Centaurea alba subsp. princeps (Boiss. & Heldr.) Gugler
0.2.4 Common name	N/A

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	No
1.1.2 Method used - map	Complete survey/Complete survey or a statistically robust estimate (3)
1.1.3 Year or period	2012
1.1.4 Additional map	Yes
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

### 2.1 Biogeographical Region

### 2.2 Published sources

#### Mediterranean (MED)

Dimitrellos G. & Phitos D. 1995: *Centaurea princeps* Boiss. & Heldr. – Pp. 166-167. In: Phitos D. & al. (eds), *The Red Data Book of Rare and Threatened Plants of Greece*. – Athens: WWF.

Dimitrellos G. & Christodoulakis D. 1995: *The flora of Mount Timfristos (N.W. Sterea Ellas, Greece)*. – *Fl. Medit.* 5: 9-51.

Morgan V. & Leon C. 1992: *Datasheets of flora species for revision of Appendix I of the Bern Convention, Volume IV*. – Council of Europe Press, Strasbourg.

Στρατάκη Φ. 1998: Τα φυτά της Οδηγίας 92/43 ΕΕ για την Ελλάδα. 'Status'-Απειλής-Νομοθεσία Προστασίας τους. – Μεταπτυχιακό Δίπλωμα Ειδίκευσης, Πανεπιστήμιο Πατρών, Πάτρα.

Georgiadis Th. & Dimitrellos G. 2009: *Centaurea princeps* Boiss & Heldr. In: Phitos D., Constantinidis T. & Kamari G. (eds), *The Red Data Book of Rare and Threatened Plants of Greece, vol 1(A-D)*: 241-243. – Patras: Hellenic Botanical Society (in Greek). ISBN 9789609407120.

### 2.3 Range

2.3.1 Surface area - Range (km <sup>2</sup> )	2	
2.3.2 Method - Range surface area	Complete survey/Complete survey or a statistically robust estimate (3)	
2.3.3 Short-term trend period	1998-2012	
2.3.4 Short-term trend direction	stable (0)	
2.3.5 Short-term trend magnitude	min	max
2.3.6 Long-term trend period		
2.3.7 Long-term trend direction	N/A	
2.3.8 Long-term trend magnitude	min	max
2.3.9 Favourable reference range	area (km <sup>2</sup> )	2
	operator	N/A
	unkown	No
	method	The Favourable reference range was based on the sum of the current and the historical distribution of the species. Two localities near Kalambaka where the species was recorded in 1896 and not confirmed since were excluded from the favourable reference range.

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2.3.10 Reason for change	Improved knowledge/more accurate data Use of different method		
<b>2.4 Population</b>			
2.4.1 Population size (individuals or agreed exception)	Unit	number of individuals (i)	
	min	800	max 1000
2.4.2 Population size (other than individuals)	Unit	N/A	
	min	max	
2.4.3 Additional information	Definition of locality Conversion method Problems		
2.4.4 Year or period	2009		
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)		
2.4.6 Short-term trend period	1998-2009		
2.4.7 Short term trend direction	unknown (x)		
2.4.8 Short-term trend magnitude	min	max	confidence interval
2.4.9 Short-term trend method	Absent data (0)		
2.4.10 Long-term trend period			
2.4.11 Long term trend direction	N/A		
2.4.12 Long-term trend magnitude	min	max	confidence interval
2.4.13 Long-term trend method	N/A		
2.4.14 Favourable reference population	number		
	operator	approximately equal to (≈)	
	unknown	No	
	method	The favourable reference population is defined as greater than the minimum estimated population size	
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method		
<b>2.5 Habitat for the Species</b>			
2.5.1 Surface area - Habitat (km <sup>2</sup> )	0,007		
2.5.2 Year or period	2012		
2.5.3 Method used - habitat	Complete survey/Complete survey or a statistically robust estimate (3)		
2.5.4 a) Quality of habitat	Good		
2.5.4 b) Quality of habitat - method	The signs of human activity are obvious in the area. Very close to the plants at Petra locality, a road has been constructed for the demands of a neighbouring quarry. Despite these human interventions, the habitat at all the localities of the species is of good quality, regarding species composition (participation and abundance of typical species).		
2.5.5 Short term trend period	1998-2012		
2.5.6 Short term trend direction	stable (0)		
2.5.7 Long-term trend period			
2.5.8 Long term trend direction	N/A		
2.5.9 Area of suitable habitat (km <sup>2</sup> )	0,04		
2.5.10 Reason for change	Improved knowledge/more accurate data Use of different method		
<b>2.6 Main Pressures</b>			

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Pressure	ranking	pollution qualifier(s)
grazing (A04)	medium importance (M)	N/A
hand collection (F04.02.02)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A

2.6.1 Method used – pressures based exclusively or to a larger extent on real data from sites/occurrences or other

## 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
collapse of terrain, landslide (L05)	medium importance (M)	N/A

2.7.1 Method used – threats expert opinion (1)

## 2.8 Complementary Information

2.8.1 Justification of % thresholds for trends

2.8.2 Other relevant Information

Note on 2.4.7. The population of the species consists of 3 subpopulations, at the localities Petra and Koumpi and on Tymfristos (SE slopes). The total population size had not been estimated in 1998 so the trend cannot be estimated. The pre-2007 information for the population size is that the subpopulation at Petra locality was 150-200 individuals in 1998.

2.8.3 Trans-boundary assessment

## 2.9 Conclusions (assessment of conservation status at end of reporting period)

2.9.1 Range	assessment Favourable (FV) qualifiers N/A
2.9.2. Population	assessment Favourable (FV) qualifiers N/A
2.9.3. Habitat	assessment Favourable (FV) qualifiers N/A
2.9.4. Future prospects	assessment Inadequate (U1) qualifiers unknown (x)
2.9.5 Overall assessment of Conservation Status	Inadequate (U1)
2.9.5 Overall trend in Conservation Status	unknown (x)

## 3. Natura 2000 coverage and conservation measures - Annex II species

### 3.1 Population

3.1.1 Population Size	Unit number of individuals (i) min 800 max 1000
3.1.2 Method used	Estimate based on expert opinion with no or minimal sampling (1)
3.1.3 Trend of population size within	N/A

### 3.2 Conversation Measures

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3.2.1 Measure	3.2.2 Type	3.2.3 Ranking	3.2.4 Location	3.2.5 Broad Evaluation
Legal protection of habitats and species (6.3)	Legal	high importance (H)	Both	Enhance Long term
Regulation/ Management of hunting and taking (7.1)	Legal	high importance (H)	Inside	Long term