

# 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	1060
0.2.2 Species name	Lycaena dispar
0.2.3 Alternative species scientific name	N/A
0.2.4 Common name	N/A

## 1. National Level

### 1.1 Maps

1.1.1 Distribution Map	Yes
1.1.1a Sensitive species	Yes
1.1.2 Method used - map	Estimate based on expert opinion with no or minimal sampling (1)
1.1.3 Year or period	2007-2012
1.1.4 Additional map	No
1.1.5 Range map	Yes

## 2. Biogeographical Or Marine Level

2.1 Biogeographical Region	<b>Mediterranean (MED)</b>
2.2 Published sources	Combination of sampling data (2014) with data reported in Pamperis (2009). Pamperis LN. 2009. The Butterflies of Greece. Athens: Pamperis Editions.766 p.

### 2.3 Range

2.3.1 Surface area - Range (km <sup>2</sup> )	17401
2.3.2 Method - Range surface area	Estimate based on partial data with some extrapolation and/or modelling (2)
2.3.3 Short-term trend period	2001-2012
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> ) operator approximately equal to (≈) unkown No method No extinction is officially reported for the species at 10km grid scale. Therefore the FVR is considered to be similar with the current range
2.3.10 Reason for change	Improved knowledge/more accurate dataUse of different method

### 2.4 Population

2.4.1 Population size (individuals or agreed exception)	Unit N/A min max
2.4.2 Population size (other than individuals)	Unit number of adults (adults) min 50 max 100
2.4.3 Additional information	Definition of locality Conversion method Problems Sampling localities were visited only once in 2014. In absence of time series data, we considered (a) expert

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opinion of known population localities since 2007, (b) population localities from the Greek butterfly atlas, (c) the proportion % of species presence in the localities visited in 2014, in order to provide an estimation of minimum and maximum population size in terms of population classes

2.4.4 Year or period	2007-2012
2.4.5 Method – population size	Estimate based on expert opinion with no or minimal sampling (1)
2.4.6 Short-term trend period	2001-2012
2.4.7 Short term trend direction	decrease (-)
2.4.8 Short-term trend magnitude	min max confidence interval
2.4.9 Short-term trend method	Estimate based on expert opinion with no or minimal sampling (1)
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 more than (>) unknown No method We compared the minimum population size estimated with the assessed population from historic localities, on the basis of the Greek butterfly atlas, to conclude that the reference population is greater than actual size.
2.4.15 Reason for change	Improved knowledge/more accurate data Use of different method

## 2.5 Habitat for the Species

2.5.1 Surface area - Habitat (km <sup>2</sup> )	
2.5.2 Year or period	
2.5.3 Method used - habitat	Absent data (0)
2.5.4 a) Quality of habitat	Unknown
2.5.4 b) Quality of habitat - method	Absent data
2.5.5 Short term trend period	2001-2012
2.5.6 Short term trend direction	unknown (x)
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
2.5.10 Reason for change	

## 2.6 Main Pressures

Pressure	ranking	pollution qualifier(s)
use of biocides, hormones and chemicals (A07)	high importance (H)	N/A
intensive cattle grazing (A04.01.01)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
modification of cultivation practices (A02)	low importance (L)	N/A
mowing / cutting of grassland (A03)	low importance (L)	N/A

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Fertilisation (A08)	low importance (L)	N/A
Agriculture activities not referred to above (A11)	low importance (L)	N/A
paths, tracks, cycling tracks (D01.01)	low importance (L)	N/A
Taking and removal of animals (terrestrial) (F03.02)	low importance (L)	N/A

2.6.1 Method used – pressures mainly based on expert judgement and other data (2)

## 2.7 Main Threats

Threat	ranking	pollution qualifier(s)
use of biocides, hormones and chemicals (A07)	high importance (H)	N/A
intensive cattle grazing (A04.01.01)	medium importance (M)	N/A
Sand and gravel extraction (C01.01)	medium importance (M)	N/A
Water abstractions from surface waters (J02.06)	medium importance (M)	N/A
Canalisation & water deviation (J02.03)	medium importance (M)	N/A
Taking and removal of animals (terrestrial) (F03.02)	low importance (L)	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

Local population decreased to extinction after dam construction in Nestos river, while climate change could be of significant importance to species decline.

The sites GR1240004 and GR1240006) were not included in the species' distribution and range for the following reasons:

- 1) The species was not recorded during the 2014 field surveys in the framework of the current monitoring project in the site GR1240004.
- 2) The GR1240006 site is designated as SPA and thus it has been not included in the study sites of the current monitoring project.
- 3) However, there has been no recent bibliographic reference testifying the species' presence in either site.

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 Bad (U2) qualifiers declining (-)
2.9.3. Habitat	assessment Unknown (XX) qualifiers N/A
2.9.4. Future prospects	assessment Bad (U2) qualifiers declining (-)
2.9.5 Overall assessment of Conservation Status	Bad (U2)
2.9.5 Overall trend in Conservation Status	declining (-)

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

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## 3.1 Population

### 3.1.1 Population Size

Unit number of adults (adults)  
min 50 max 100

### 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 Conservation Measures

### 3.2.1 Measure

### 3.2.2 Type

### 3.2.3 Ranking

### 3.2.4 Location

### 3.2.5 Broad Evaluation

Establish protected areas/sites (6.1)

Legal  
One-off

medium  
importance (M)

Inside

No effect