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

| | |
|---|---|
| 0.1 Member State | **IT** |
| 0.2.1 Species code | **1209** |
| 0.2.2 Species name | **Rana dalmatina** |
| 0.2.3 Alternative species scientific name | N/A |
| 0.2.4 Common name | Rana dalmatina |

## 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 | 2000-2012 |
| 1.1.4 Additional map | No |
| 1.1.5 Range map | Yes |

## 2. Biogeographical Or Marine Level

2.1 Biogeographical Region

**Mediterranean (MED)**

2.2 Published sources

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Bernini F., Guarino F.M., Picariello O., 2007. Rana dalmatina Fitzinger, in Bonaparte, 1838. In: Fauna d'Italia, vol. XLII, Amphibia. A cura di Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., p. 404-408. Calderini, Bologna.

Picariello O., Guarino F.M., Barbieri F., 2006. Rana dalmatina Bonaparte, 1838. In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italians Amphibians and Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds), p. 352-357. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

### 2.3 Range

| | | |
|---|---|---|
| 2.3.1 Surface area - Range (km²) | 69900 | |
| 2.3.2 Method - Range surface area | Complete survey/Complete survey or a statistically robust estimate (3) | |
| 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 (km²) | |
| | operator | approximately equal to (≈) |
| | unkown | No |
| | method | Expert judgement |
| 2.3.10 Reason for change | Use of different method | |

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

## 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 map 10x10 km grid cells (grids10x10) | | |
| | min | 354 | max | 354 |
| 2.4.3 Additional information | Definition of locality | | | |
| | Conversion method | | | |
| | Problems | | | |
| 2.4.4 Year or period | 2000-2012 | | | |
| 2.4.5 Method – population size | Complete survey/Complete survey or a statistically robust estimate (3) | | | |
| 2.4.6 Short-term trend period | 2001-2012 | | | |
| 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 | N/A | | |
| | unknown | Yes | | |
| | method | Expert judgement | | |
| 2.4.15 Reason for change | Improved knowledge/more accurate data | | | |

## 2.5 Habitat for the Species

| | |
|---|---|
| 2.5.1 Surface area - Habitat (km²) | |
| 2.5.2 Year or period | 2000-2012 |
| 2.5.3 Method used - habitat | Absent data (0) |
| 2.5.4 a) Quality of habitat | Moderate |
| 2.5.4 b) Quality of habitat - method | Fragmentation and loss of suitable habitat because of migration barriers (e.g. roads) infilling of ponds, changes in hydraulic conditions, deforestation and other human activities on suitable terrestrial and aquatic habitats. |
| 2.5.5 Short term trend period | 2001-2012 |
| 2.5.6 Short term trend direction | decrease (-) |
| 2.5.7 Long-term trend period | |
| 2.5.8 Long term trend direction | N/A |
| 2.5.9 Area of suitable habitat (km²) | |
| 2.5.10 Reason for change | Improved knowledge/more accurate data |

## 2.6 Main Pressures

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

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| agricultural intensification (A02.01) | high importance (H) | N/A |
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| thinning of tree layer (B02.06) | medium importance (M) | N/A |
| forestry clearance (B02.02) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| fire and fire suppression (J01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | N/A |
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |
| forest exploitation without replanting or natural regrowth (B03) | medium importance (M) | N/A |
| Urbanised areas, human habitation (E01) | medium importance (M) | N/A |
| Changes in abiotic conditions (M01) | medium importance (M) | N/A |
| Cultivation (A01) | medium importance (M) | N/A |
| anthropogenic reduction of habitat connectivity (J03.02) | high importance (H) | 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) |
|---|---|---|
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| agricultural intensification (A02.01) | high importance (H) | N/A |
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| thinning of tree layer (B02.06) | medium importance (M) | N/A |
| forestry clearance (B02.02) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| fire and fire suppression (J01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | N/A |
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |
| forest exploitation without replanting or natural regrowth (B03) | medium importance (M) | N/A |
| Urbanised areas, human habitation (E01) | medium importance (M) | N/A |
| Changes in abiotic conditions (M01) | medium importance (M) | N/A |
| Cultivation (A01) | medium importance (M) | N/A |
| anthropogenic reduction of habitat connectivity (J03.02) | high importance (H) | N/A |

2.7.1 Method used – threats: expert opinion (1)

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

### 2.8 Complementary Information

| | |
|---|---|
| 2.8.1 Justification of % thresholds for trends | |
| 2.8.2 Other relevant Information | |
| 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 | Unknown (XX) |
| | qualifiers | N/A |
| 2.9.3. Habitat | assessment | Inadequate (U1) |
| | qualifiers | declining (-) |
| 2.9.4. Future prospects | assessment | Inadequate (U1) |
| | qualifiers | declining (-) |
| 2.9.5 Overall assessment of Conservation Status | | Inadequate (U1) |
| 2.9.5 Overall trend in Conservation Status | | declining (-) |

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

### 3.1 Population

| | | | |
|---|---|---|---|
| 3.1.1 Population Size | Unit | N/A | |
| | min | | max |
| 3.1.2 Method used | N/A | | |
| 3.1.3 Trend of population size within | N/A | | |

### 3.2 Conversation Measures

## 2. Biogeographical Or Marine Level

2.1 Biogeographical Region

**Continental (CON)**

2.2 Published sources

The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

Bernini F., Guarino F.M., Picariello O., 2007. Rana dalmatina Fitzinger, in Bonaparte, 1838. In: Fauna d'Italia, vol. XLII, Amphibia. A cura di Lanza B., Andreone F., Bologna M.A., Corti C., Razzetti E., p. 404-408. Calderini, Bologna.

Picariello O., Guarino F.M., Barbieri F., 2006. Rana dalmatina Bonaparte, 1838. In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italians Amphibians and Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds), p. 352-357. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero

dell'Ambiente, del Territorio e del Mare, Roma.

## 2.3 Range

| | |
|---|---|
| 2.3.1 Surface area - Range (km²) | 86500 |
| 2.3.2 Method - Range surface area | Complete survey/Complete survey or a statistically robust estimate (3) |
| 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 (km²)<br>operator approximately equal to (≈)<br>unkown No<br>method Expert judgement |
| 2.3.10 Reason for change | Use of different method |

## 2.4 Population

| | |
|---|---|
| 2.4.1 Population size (individuals or agreed exception) | Unit N/A<br>min max |
| 2.4.2 Population size (other than individuals) | Unit number of map 10x10 km grid cells (grids10x10)<br>min 562 max 562 |
| 2.4.3 Additional information | Definition of locality<br>Conversion method<br>Problems |
| 2.4.4 Year or period | 2000-2012 |
| 2.4.5 Method – population size | Complete survey/Complete survey or a statistically robust estimate (3) |
| 2.4.6 Short-term trend period | 2001-2012 |
| 2.4.7 Short term trend direction | stable (0) |
| 2.4.8 Short-term trend magnitude | min max confidence interval |
| 2.4.9 Short-term trend method | Estimate based on partial data with some extrapolation and/or modelling (2) |
| 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<br>operator approximately equal to (≈)<br>unknown No<br>method Expert judgement |
| 2.4.15 Reason for change | Improved knowledge/more accurate data |

## 2.5 Habitat for the Species

| | |
|---|---|
| 2.5.1 Surface area - Habitat (km²) | |
| 2.5.2 Year or period | 2000-2012 |
| 2.5.3 Method used - habitat | Absent data (0) |
| 2.5.4 a) Quality of habitat | Moderate |
| 2.5.4 b) Quality of habitat - method | Fragmentation and loss of suitable habitat because of migration barriers (e.g. roads) infilling of ponds, changes in hydraulic conditions, deforestation and other |

| | |
|---|---|
| | human activities on suitable terrestrial and aquatic habitats. |
| 2.5.5 Short term trend period | 2001-2012 |
| 2.5.6 Short term trend direction | decrease (-) |
| 2.5.7 Long-term trend period | |
| 2.5.8 Long term trend direction | N/A |
| 2.5.9 Area of suitable habitat (km²) | |
| 2.5.10 Reason for change | Improved knowledge/more accurate data |

## 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| agricultural intensification (A02.01) | high importance (H) | N/A |
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| thinning of tree layer (B02.06) | medium importance (M) | N/A |
| forestry clearance (B02.02) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| fire and fire suppression (J01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | N/A |
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |
| forest exploitation without replanting or natural regrowth (B03) | medium importance (M) | N/A |
| Urbanised areas, human habitation (E01) | medium importance (M) | N/A |
| Changes in abiotic conditions (M01) | medium importance (M) | N/A |
| Cultivation (A01) | medium importance (M) | N/A |
| anthropogenic reduction of habitat connectivity (J03.02) | high importance (H) | 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) |
|---|---|---|
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | high importance (H) | N/A |
| agricultural intensification (A02.01) | medium importance (M) | N/A |
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| thinning of tree layer (B02.06) | medium importance (M) | N/A |
| forestry clearance (B02.02) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| fire and fire suppression (J01) | low importance (L) | N/A |
| human induced changes in hydraulic conditions (J02) | high importance (H) | N/A |
| use of biocides, hormones and chemicals (A07) | medium importance (M) | N/A |

| | | |
|---|---|---|
| forest exploitation without replanting or natural regrowth (B03) | medium importance (M) | N/A |
| Urbanised areas, human habitation (E01) | medium importance (M) | N/A |
| Changes in abiotic conditions (M01) | medium importance (M) | N/A |
| Cultivation (A01) | medium importance (M) | N/A |
| anthropogenic reduction of habitat connectivity (J03.02) | high importance (H) | 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

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: Inadequate (U1)
- qualifiers: declining (-)

2.9.4. Future prospects
- assessment: Inadequate (U1)
- qualifiers: declining (-)

2.9.5 Overall assessment of Conservation Status: Inadequate (U1)

2.9.5 Overall trend in Conservation Status: declining (-)

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

### 3.1 Population

3.1.1 Population Size
- Unit: N/A
- min
- max

3.1.2 Method used: N/A

3.1.3 Trend of population size within: N/A

### 3.2 Conversation Measures

## 2. Biogeographical Or Marine Level

2.1 Biogeographical Region: **Alpine (ALP)**

2.2 Published sources: The present species assessment (fields 0.1-2.9) has been compiled by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco (Societas Herpetologica Italica). Information, unpublished data and experts' judgments have been provided by Anna Rita Di Cerbo, Francesco Ficetola, Roberto Sindaco.

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Andreone F., Bologna M.A., Corti C., Razzetti E., p. 404-408. Calderini, Bologna.

Picariello O., Guarino F.M., Barbieri F., 2006. Rana dalmatina Bonaparte, 1838. In: Atlante degli Anfibi e dei Rettili d'Italia / Atlas of Italians Amphibians and Reptiles, Sindaco R., Doria G., Razzetti E. & Bernini F. (Eds), p. 352-357. Societas Herpetologica Italica. Edizioni Polistampa, Firenze.

Rondinini, C., Battistoni, A., Peronace, V., Teofili, C. (compilatori). 2013. Lista Rossa IUCN dei Vertebrati Italiani. Comitato Italiano IUCN e Ministero dell'Ambiente, del Territorio e del Mare, Roma.

## 2.3 Range

| | |
|---|---|
| 2.3.1 Surface area - Range (km²) | 23500 |
| 2.3.2 Method - Range surface area | Complete survey/Complete survey or a statistically robust estimate (3) |
| 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 (km²)<br>operator approximately equal to (≈)<br>unkown No<br>method Expert judgement |
| 2.3.10 Reason for change | Use of different method |

## 2.4 Population

| | |
|---|---|
| 2.4.1 Population size (individuals or agreed exception) | Unit N/A<br>min max |
| 2.4.2 Population size (other than individuals) | Unit number of map 10x10 km grid cells (grids10x10)<br>min 149 max 149 |
| 2.4.3 Additional information | Definition of locality<br>Conversion method<br>Problems |
| 2.4.4 Year or period | 2000-2012 |
| 2.4.5 Method – population size | Complete survey/Complete survey or a statistically robust estimate (3) |
| 2.4.6 Short-term trend period | 2001-2012 |
| 2.4.7 Short term trend direction | stable (0) |
| 2.4.8 Short-term trend magnitude | min max confidence interval |
| 2.4.9 Short-term trend method | Estimate based on partial data with some extrapolation and/or modelling (2) |
| 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<br>operator approximately equal to (≈)<br>unknown No<br>method Expert judgement |

| | |
|---|---|
| 2.4.15 Reason for change | Improved knowledge/more accurate data |

## 2.5 Habitat for the Species

| | |
|---|---|
| 2.5.1 Surface area - Habitat (km²) | |
| 2.5.2 Year or period | 2000-2012 |
| 2.5.3 Method used - habitat | Absent data (0) |
| 2.5.4 a) Quality of habitat | Good |
| 2.5.4 b) Quality of habitat - method | Decrease of woodland, agricultural intensification, introduction of predators, pollution and infilling of water bodies affect breeding and terrestrial habitats. Vehicle traffic affects breeding migration. |
| 2.5.5 Short term trend period | 2000-2012 |
| 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 (km²) | |
| 2.5.10 Reason for change | Improved knowledge/more accurate data |

## 2.6 Main Pressures

| Pressure | ranking | pollution qualifier(s) |
|---|---|---|
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| invasive non-native species (I01) | medium importance (M) | N/A |
| Forest and Plantation management & use (B02) | medium importance (M) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| Landfill, land reclamation and drying out, general (J02.01) | medium importance (M) | N/A |
| agricultural intensification (A02.01) | medium importance (M) | N/A |
| removal of hedges and copses or scrub (A10.01) | low importance (L) | N/A |
| use of biocides, hormones and chemicals (A07) | 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) |
|---|---|---|
| Roads, paths and railroads (D01) | high importance (H) | N/A |
| infilling of ditches, dykes, ponds, pools, marshes or pits (J02.01.03) | medium importance (M) | N/A |
| Pollution to surface waters (limnic & terrestrial, marine & brackish) (H01) | medium importance (M) | N/A |
| invasive non-native species (I01) | medium importance (M) | N/A |
| Forest and Plantation management & use (B02) | medium importance (M) | N/A |
| Water abstractions from surface waters (J02.06) | medium importance (M) | N/A |
| Landfill, land reclamation and drying out, general (J02.01) | medium importance (M) | N/A |
| agricultural intensification (A02.01) | medium importance (M) | N/A |

| | | |
|---|---|---|
| removal of hedges and copses or scrub (A10.01) | low importance (L) | N/A |
| use of biocides, hormones and chemicals (A07) | 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 | |
| 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 | Favourable (FV) |
| | qualifiers | N/A |
| 2.9.5 Overall assessment of Conservation Status | Favourable (FV) | |
| 2.9.5 Overall trend in Conservation Status | N/A | |

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

### 3.1 Population

| | | | |
|---|---|---|---|
| 3.1.1 Population Size | Unit | N/A | |
| | min | | max |
| 3.1.2 Method used | N/A | | |
| 3.1.3 Trend of population size within | N/A | | |

### 3.2 Conversation Measures