

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	5352
1.3 Species scientific name	Salmo louroensis
1.4 Alternative species scientific name	
1.5 Common name (in national language)	Pestrofa Lourou

2. Maps

2.1 Sensitive species	Yes
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

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

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

Λεονάρδος Ι.Δ., Λιάσκο Ρ., Αναστασιάδου Χ., Γκένας Χ., Λιούσια Β. & Ντάκης Α., 2010. Δημιουργία συστήματος παρακολούθησης και εκτίμηση της περιβαλλοντικής κατάστασης των ποτάμιων συστημάτων Λούρου και Άραχθου και της ευρύτερης περιοχής του Αμβρακικού, Δημιουργία εδαφολογικών χαρτών και έλεγχος της ποιότητας των εδαφών των πεδινών εκτάσεων του βόρειου Αμβρακικού και Διερεύνηση αβιοτικών και βιοτικών παραμέτρων στον πυθμένα του Αμβρακικού Κόλπου και συσχέτισή τους με την ιχθυοπαραγωγή. Νομαρχιακή Αυτοδιοίκηση Άρτας, Τελική Περιβαλλοντική Έκθεση.

Delling B., 2003. Species diversity and phylogeny of Salmo with emphasis on southern trouts (Teleostei, Salmonidae). Stockholm University: PhD Thesis, Jannes Snabbtryck AB, Sweden.

Delling B., 2010. Diversity of western and southern Balkan trouts, with the description of a new species from the Louros River, Greece (Teleostei: Salmonidae). Ichthyological Exploration of Freshwaters, 21: 4, 331 – 344.

Kottelat M. & Freyhof J., 2007. Handbook of European freshwater fishes. Berlin: Kottelat, Cornol & Freyhof: 646pp.

Liasko R., Anastasiadou Ch., Ntakis A., Gkenas Ch. and Leonardos I.D., 2012. Morphological differentiation among native trout populations in North-Western Greece. Journal of Biological Research 17: 33–43.

Ntakis A., Liasko R., Oikonomou A. and Leonardos I., 2014. Growth pattern of an

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

	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	Decreasing (-)	
6.9 Short-term trend Magnitude	a) Minimum b) Maximum c) Confidence interval	
6.10 Short-term trend Method used	Complete survey or a statistically robust estimate	
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 b) Operator c) Unknown d) Method	Much more than (>>) Expert judgment.
6.16 Change and reason for change in population size	No change The change is mainly due to:	
6.17 Additional information		

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)?	No
	b) Is there a sufficiently large area of unoccupied habitat of suitable quality (for long-term survival)?	Unknown
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 42 km ² and its quality is moderate	

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

8. Main pressures and threats

8.1 Characterisation of pressures/threats

Pressure	Ranking
Freshwater fish and shellfish harvesting (recreational) (G06)	H
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Deposition and treatment of waste/garbage from household/recreational facilities (F09)	M
Deposition and treatment of waste/garbage from commercial and industrial facilities (F10)	M
Freshwater fish and shellfish harvesting (professional) (G05)	H
Other invasive alien species (other than species of Union concern) (I02)	H
Modification of hydrological flow (K04)	H
Physical alteration of water bodies (K05)	H
Other human intrusions and disturbance not mentioned above (H08)	M

Threat	Ranking
Hydropower (dams, weirs, run-off-the-river), including infrastructure (D02)	M
Freshwater fish and shellfish harvesting (professional) (G05)	H
Freshwater fish and shellfish harvesting (recreational) (G06)	H
Other invasive alien species (other than species of Union concern) (I02)	H
Other human intrusions and disturbance not mentioned above (H08)	H
Physical alteration of water bodies (K05)	H

8.2 Sources of information

PRESSURES: Based exclusively or to a larger extent on real data from sites/occurrences or other data sources.
THREATS: Based on expert opinion.

8.3 Additional information

IAS: *Oncorhynchus mykiss*

9. Conservation measures

9.1 Status of measures

- a) Are measures needed? Yes
- b) Indicate the status of measures Measures identified, but none yet taken

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

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

Management of hunting, recreational fishing and recreational or commercial harvesting or collection of plants (CG02)

Reduce impact of hydropower operation and infrastructure (CC04)

Management of professional/commercial fishing (including shellfish and seaweed harvesting) (CG01)

Management, control or eradication of other invasive alien species (CI03)

Restore habitats impacted by multi-purpose hydrological changes (CJ03)

Reduce impact of multi-purpose hydrological changes (CJ02)

Reduce impact of other specific human actions (CH03)

9.6 Additional information

10. Future prospects

10.1 Future prospects of parameters	a) Range	Good
	b) Population	Bad
	c) Habitat of the species	Poor

10.2 Additional information

11. Conclusions

11.1. Range	Favourable (FV)
11.2. Population	Unfavourable - Bad (U2)
11.3. Habitat for the species	Unfavourable - Inadequate (U1)
11.4. Future prospects	Unfavourable - Bad (U2)
11.5 Overall assessment of Conservation Status	Unfavourable - Bad (U2)
11.6 Overall trend in Conservation Status	Deteriorating (-)
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	
	c) Maximum	
	d) Best single value	0

12.2 Type of estimate	Best estimate
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Report on the main results of the surveillance under Article 11 for Annex II, IV and V species (Annex B)

12.3 Population size inside the network Method used

Based mainly on extrapolation from a limited amount of data

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

13. Complementary information

13.1 Justification of % thresholds for trends

The % threshold could not be used for the assessment since: a) a different method for assessing range was employed, compared to the 2nd Reporting Period or b) no data were reported in the 2nd Reporting Period.

13.2 Trans-boundary assessment

13.3 Other relevant Information

1. A recently described and poorly studied species, restricted to the upper Louros River. Its status should be considered "critically endangered" due to its numerical rarity and extremely restricted distribution. Disease, pollution, genetic introgression with translocated native trout and competition with escaped *Oncorhynchus mykiss* may represent serious threats to this species.

2. Basic Assumptions:

i) "Surface Area Range" (field 5.1) = value extracted from "Range Map" (field 2.5).

ii) "Favourable Reference Range" (field 5.10a) = a) "Surface Area Range" (field 5.1) OR b) value extracted from "Additional Reference Range Map" (provided). Depends on whether the Favourable range is equal or larger than actual species range.

iii) "Population Size" (field 6.2 or 6.4) = value extracted from "Distribution Map" (field 2.3) or "Additional Distribution Map" (field 2.5) (when provided).

iv) "Favourable Reference Population" (field 6.15a) = a) "Population Size" (field 6.2 or 6.4) OR b) value extracted from "Additional Reference Range Map" (provided). Depends on whether the Favourable population is equal or larger than actual species population.

v) Habitat "Area Estimation" (field 7.9) = "Distribution Map" (field 2.3) or "Additional Distribution Map" (field 2.5) (when provided).

3. Population assessment and short term trend took into account, population structure and reproduction trends (Leonardos et al. 2010).