Cobitis bilineata	_		Reg	ion: 1					
Taxonomic Authority: Canestrini, 1866 Synonyms:			Con	Common Names:					
Synonyms:			Con	imon names	S.				
Order: Cypriniformes			Fam	nily: Cob	oitidae				
Notes on taxonomy:									
General Information									
Biome	Terrestri	al	✓ Freshw	/ater	□ N	Marine			
Geographic Range of species:			Hab	itat and Eco	logy Infor	mation:			
The natural range includes northern Italy a basin. It is also present in the Zrmanja rive					•	running waters in the lo		II	
native to southern Switzerland (Po/Ticino	draininage). I	t has been		es with same	or muu sur	bstrates rich in vegetatio	л.		
accidentally introduced to peninsular and north of the Alps.	insular Italy a	nd to an area	<b>a</b>						
Conservation Measures:			Thre	eats:					
None except in Slovenia where it is strictly	y forbidden to	catch this	Hab	itat destruction	on. Water p	pollution. Predation by a	lien species.		
species.  Species population information:									
Decreasing in Slovenia (totallly protected)	but increasir	ng in other pa	ırts						
of its range.									
	Native - Presence	Native - Presence	Evtinat [	Dointroduced	Introduce	ad Vagrant			
<b>Country Distribution</b>	Confirmed	Possible	EXUNCU	Reintroduced	Introduce	ed Vagrant			
Italy	<b>✓</b>				<b>✓</b>				
Slovenia	<u>~</u>								
Switzerland	<b>✓</b>								
Upper Level Habitat Preferenc	<u>es</u>	S	core <u>Lo</u>	wer Leve	I Habitat	t Preferences		Score	
5.2 Wetlands (inland) - Seasonal/Intern	nittent/Irregul	ar	1						
Rivers/Streams/Creeks 5.7 Wetlands (inland) - Permanent Free	shwater Mars	hes/Pools	1						
(under 8ha)			•						
Major threats			Co	nservatio	n Meas	ures			
Code Description of threat	P	ast Present F					In place	Needed	
1 Habitat Loss/Degradation (huma		<b>v</b>	<b>v</b> 1		ased action			<b>✓</b>	
1.4 Infrastructure development		<b>✓</b>	<b>✓</b> 1.2	Legislati	on			<b>✓</b>	
1.4.6 Dams			_	.1 Develop				<b>✓</b>	
<ul><li>6 Pollution (affecting habitat and/o</li><li>6.3 Water pollution</li></ul>			_	.1.1 Internati				<b>✓</b>	
9 Intrinsic factors				.2 Impleme				<b>✓</b>	
9.1 Limited dispersal				.2.1 Internati				<b>✓</b>	
9.9 Restricted range		<b>✓</b>		.2.2 National	level			<b>✓</b>	
			3		h actions	d		<b>V</b>	
			3.2 3.3		on number and Ecolog	rs and range		<b>✓</b>	
			3.4		_	9 <i>)</i>		<b>✓</b>	
			3.5	Threats				<b>V</b>	
			3.8		ation meas	sures		<b>✓</b>	
			3.9	Trends/N	Monitoring			<b>✓</b>	
<u>Utilisation of Species</u>									
Purpose/Type of Use		Subsistence	e Natio	nal Intern	national	Other purpose:			
						Fishing bait and used trout in lakes of souther			
						pers observ).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Primary forms removed from the wild	100	% >75%	51-75%	<b>26-50</b> %	<25%	Other forms removed	d from the wi	ild:	
Source of specimens in commercial tr	ade 100°	% >75%	51-75%	<b>6 26-50%</b>	<25%	Other source of spec	imens:		
Trend in wild offtake/harvest in relatio	n to total wil	d populatio	n numbers	over last fiv	ve years:				
Trend in offtake/harvest produced three	ough domes	tication/culti	ivation ove	er last five ye	ears:				
CITES:									
Red Listing									
Red List Assessment: Least Concert	n (LC)			Possibly E	xtinct				
Pad Liet Criteria									

Rationale for the Red List Assessment:

Although this species has disappeared from many localities due to habitat destruction it has a wide and expanding range (estimated to be > 20,000 km2). It is assessed as Least Concern.

31/10/2004

Date of Assessment:

Current Population Trend: Stable

Assessor(s): A.J. Crivelli

Evaluator: Bianco, G. & Freyhof, J.

Notes on Red listing:

## **Bibliography**

Bianco, P.G., 1995, Mediterranean endemic freshwater fishes of Italy, Biological Conservation, , , 72, 159-170, ,

Bohlen, J. & Rab, P., 2001, Species and hybrid richness in spined loaches of the genus Cobitis (Teleostei: Cobitidae), with a checklist of European forms and suggestions for conservation., Journal of Fish Biology, , , 59 (Supplment A), 75-89, ,

Perdices, A. & Doadrio, I., 2001, The molecular systematics and biogeography of the European Cobitids based on mitochondrial DNA sequences., Molecular Phylogenetics and Evolution, , , 19, 468-478, ,

Schneider, D., Mrakovcic, M., Mustafic, P. & Kerovec, M., 2000, Morphological differences in some Cobitis populations from Croatia., Folia Zoologica, , , 49 (Suppl. I), 227-234, ,

Sumer, S. & Povz, M., 2000, Morphometric and merisitc characters of the genera Cobitis and Sabanejewia (Cobitidae) in Slovenia., Folia Zoologica, , , 49 (Suppl. I), 235-240, ,

Bianco, P.G., 1994, L'Ittiofauna continentale dell'Appennino umbro-marchigiano, barriera semipermeabile allo scambio di componenti primarie tra gli oppositi versanti dell'Italia centrale., Biogeographia, , , 17, 427-483, ,

Bianco, P.G., 2002, Pesci, , Rete Ecologica Nazionale. Un approccio alla conservazione dei vertebrati italiani., Boitani L., Corsi F., Falcucci A., Maiorano L., Marzetti I., Masi M., Montemaggiori A., Ottaviani D., Reggiani G., Rondinini C., , , Università di Roma "La Sapienza", Dipartimento di Biologia Animale e dell'Uomo; Ministero dell'Ambiente, Direzione per la Conservazione della Natura; Istituto di Ecologia Applicata. http://www.gisbau.uniroma1.it/REN,

Bianco P.G. & Ketmaier, V., 2001, Anthropogenic changes in the freshwater fish fauna in Italy with reference to the central region and Barbus graellsii, a newly established alien species of Iberian origin., J. Fish Biol., , , 59, 190-208, ,