Common Names:   Content		tis levantina	00		R	Region:	1					
Seneral Information   Terrestrial   Family: Cobilidae   Seneral Information   Terrestrial   Family: Cobilidae   Seneral Information   Terrestrial   Family: Cobilidae   Seneral Information   Terrestrial   Family: Seneral Information   Terrestrial   Family: Seneral Information   Terrestrial   Family: Seneral Information   Family: Seneral Information   Terrestrial   Family: Seneral Information   Terrestrial   Family: Seneral Information   Terrestrial   Family: Seneral Information   Terrestrial   Terrestrial Information   Terrestrial	Taxonomic Authority: Krupp & Moubayed, 1992 Synonyms:				_	Common Names:						
Secretarian   Terrestrial   Terrestrial   Very   Freshwaler   Marine	Synonyms:					Jonnino	ii ivailles.					
General Information	Order:	Cypriniformes			F	amily:	Cobi	tidae				
Goographic Army of species: It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Systia and Turkey. Not known to occur in mountainous areas.  None known to be in place.  None known to be in place in place known to will be the place to the	Notes o	on taxonomy:										
Goographic Army of species: It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Lebanon and to the Cronties It is restricted to the Litan in feer basin in Systia and Turkey. Not known to occur in mountainous areas.  None known to be in place.  None known to be in place in place known to will be the place to the	Gonor	ral Information										
Habital restricted to the Litan irvet basin in Lebanon and to the Crontes (As in Turkey) river basin in Syria and Turkey. Not known to occur in mountainous areas.    Country Distribution   Presence   Presenc	Biome		restrial		✓ Fres	shwater		Пм	larine			
It is restricted to the Litani n'er basin in Lebanon and to the Cronter incontainous areas.  Conservation Measures:  None known to be in place.  Species population information:  Threats:  Water pollution (much pollution from Syria) and extraction. Drought conservation measures in 1900, the water level at a sampling location recorded by State Hydraulic works in Fabruary as 110 cm, whereas there was no flow in June (Erkstein and Exmeks) 110 cm,		_		'	_			_				
Water pollution (much pollution from Syria) and extraction. Drought. Changes in water level. For instance in 1990, the water level at a sampling location recorded by State Hydraulic works in February as 119 cm, whereast here was no flow in June (Erkekan and Ekmekci 2000).    Species population information:	It is rest (Asi in T	ricted to the Litani river basin in Lebanon Turkey) river basin in Syria and Turkey. No			It	t lives in	lowland r	iver and		th silty bottom	and	
Country Distribution								براام مراام م	tion from Comic one of codes	aatian Duawal	L.	
The population density in Syria and Lebanon is low (Krupp and Mouyabed 1992). The population across the range is declining.    Priesence   Presence   Pres	NOHE KI	lowit to be in place.			s 1	Changes ampling 19 cm,	s in water g location	level. For recorded	instance in 1990, the wa by State Hydraulic works	ater level at a s in February	as	
Mouvabed 1992). The population across the range is declining.   Native	Species	s population information:										
Native												
Presence	Iviouyau											
Libernon   V	Coun	Preser	ice Pre	esence	Extinct	t Reint	troduced	Introduce	ed Vagrant			
Syrian Arab Republic   Score   Lower Level Habitat Preferences   Score   Standard (includes waterfalls)												
Upper Level Habitat Preferences	Syrian A						=					
S.1   Wetlands (inland) - Permanent Rivers/Streams/Creeks (includes waterfalls)   1   Rivers/Streams/Creeks (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks (inland) - Seasonal/Intermittent/Irregular   1   Rivers/Streams/Creeks   1   Rivers/Streams/Creaks   1   R	Turkey											
(includes waterfalls) 5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular 1. Rivers/Streams/Creeks 12.7 Artificial/Aquatic - Irrigated Land (includes irrigation channels) 1    Major threats   Past PresentFuture   Code   Conservation measures   In place   Needed	Uppe	r Level Habitat Preferences		Sc	ore	Lowe	r Level	Habitat	Preferences		Score	
Second   Seasonal/Intermittent/Irregular   Rivers/Streams/Creeks   12.7 Artificial/Aquatic - Irrigated Land (includes irrigation channels)   1		` ,	ams/Cree	eks	1							
Rivers/Streams/Creeks   12.7 Artificial/Aquatic - Irrigated Land (includes irrigation channels)   12.7 Artificial/Aquatic - Irrigation channels	•	•	regular		1							
Major threats	R	tivers/Streams/Creeks	_									
Description of threat	12.7 A	rtificial/Aquatic - Irrigated Land (includes i	rrigation	channels)	1							
Habitat Loss/Degradation (human induced)	Majo	<u>r threats</u>				Cons	ervatior	n Meası	<u>ures</u>			
1.3 a Extraction       ✓       ✓       ✓       1.2 Legislation       ✓       ✓       ✓       1.2 Legislation       ✓ <td< th=""><th>Code</th><th>Description of threat</th><th>Past</th><th>Present F</th><th>uture</th><th>Code</th><th>Conserva</th><th>ition mea</th><th>sures</th><th>In place I</th><th>Needed</th></td<>	Code	Description of threat	Past	Present F	uture	Code	Conserva	ition mea	sures	In place I	Needed	
1.3.6 Groundwater extraction       ✓ <t< th=""><th>1</th><th>Habitat Loss/Degradation (human induce</th><th></th><th></th><th></th><th></th><th>-</th><th></th><th>ns</th><th></th><th><b>✓</b></th></t<>	1	Habitat Loss/Degradation (human induce					-		ns		<b>✓</b>	
1.4. Infrastructure development 1.4.6 Dams 2 Invasive alien species (directly affecting the species) 2 Invasive alien species (directly affecting the species) 3 Invasive alien species (directly affecting the species) 4 Invasive alien species (directly affecting the species) 5 Pollution (affecting habitat and/or species) 6 Pollution (affecting habitat and/or species) 7 Pollution on unmbers and range 9 Population numbers and							-					
1.4.6 Dams    V   V   1.2.1.2 National level   V   V   1.2.1.2 National level   V   V   V   1.2.2 Implementation   V   V   V   1.2.2 Implementation   V   V   V   1.2.2.1 International level   V   V   V   1.2.2.2 National level   V   V   V   1.2.2.2 National level   V   V   V   1.2.2.2 National level   V   V   V   V   1.2.2.2 National level   V   V   V   V   V   V   V   V   V												
2												
species) 6 Pollution (affecting habitat and/or species) 7 V V 1.2.2.2 National level 7 Natural disasters 7 Natural disasters 9 Intrinsic factors 9 Intrinsic factors 9 Restricted range 7 Restricted range 7 V V V 3.8 Conservation measures 9.9 Restricted range 8 Subsistence 8 Subsistence 8 National International level 9 International level 9 International level 9 Intrinsic factors 9 Restricted range 9 Restricted range 9 Restricted range 8 Subsistence 8 National International level 9 Intrinsic factors 9 Restricted range 9 Re												
Pollution (affecting habitat and/or species)  Water pollution  Water pollu	2		trie	V								
6.3 Water pollution  G.3.1 Agriculture  G.3.2 Commercial/Industrial  G.3.3 Commercial/Industrial  G.3.4 Agriculture  G.3.5 Commercial/Industrial  G.3.6 Commercial/Industrial  G.3.7 Natural disasters  G.3.8 Research actions  G.3.1 Taxonomy  G.3.2 Population numbers and range  G.3.3 Research actions  G.3.4 Agriculture  G.3.5 Taxonomy  G.3.6 Population numbers and range  G.7 Natural disasters  G.7 Other purpose: Not used at all.  Conservation measures  G.7 Natural disasters  G.7 N	6	Pollution (affecting habitat and/or specie	s) 🗸	<b>✓</b>								
6.3.1 Agriculture 6.3.3 Commercial/Industrial 7 Natural disasters 9 Intrinsic factors 9.1 Limited dispersal 9.9 Restricted range  V V V 3.8 Biology and Ecology 1.1 Limited dispersal 9.9 Restricted range  V V V 3.8 Conservation measures 9.9 Restricted range  V V V 3.9 Trends/Monitoring  V V V 3.9 Trends/Monitoring  V V V 3.9 Trends/Monitoring  V V V S Subsistence  V V V S Subsistence V V V V S S Subsiste	6.3	Water pollution	<b>✓</b>	<b>✓</b>						_		
6.3.3 Commercial/Industrial  7 Natural disasters  7 Natural disasters  9 Intrinsic factors  9.1 Limited dispersal  9.9 Restricted range  1 V V 3.8 Conservation measures  9.9 Restricted range  1 V V 3.9 Trends/Monitoring  1 V V 1 3.8 Conservation measures  9.9 Restricted range  1 V V 1 3.8 Conservation measures  9.9 Restricted range  1 V V 1 3.8 Conservation measures  9.9 Restricted range  1 V V 1 3.8 Conservation measures  2 V V 1 3.8 Conservation measures  3 Not used at all.  Primary forms removed from the wild  1 00% >75% 51-75% 26-50% <25% Other forms removed from the wild:  Source of specimens in commercial trade  1 00% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  Red Listing	6.3.1	Agriculture			<b>✓</b>							
7. Natural disasters 7.1 Drought 9 Intrinsic factors 9.1 Limited dispersal 9.9 Restricted range  V V V 3.8 Conservation measures 9.9 Restricted range  V V V 3.9 Trends/Monitoring  Utilisation of Species Purpose/Type of Use  Subsistence  Subsistence  National International Other purpose: Not used at all.  Primary forms removed from the wild  100% >75% 51-75% 26-50% <25% Other forms removed from the wild:  Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  Red Listing	6.3.3	Commercial/Industrial	<b>✓</b>		<b>✓</b>				s and range			
7.1 Drought 9 Intrinsic factors 9.1 Limited dispersal 9.9 Restricted range  V V V 3.8 Conservation measures 9.9 Restricted range  Utilisation of Species Purpose/Type of Use  Subsistence  National International Other purpose: Not used at all.  Primary forms removed from the wild 100% >75% 51-75% 26-50% <25% Other forms removed from the wild:  Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  Red Listing	7				<b>✓</b>				=			
9 Intrinsic factors 9.1 Limited dispersal 9.9 Restricted range  Utilisation of Species  Purpose/Type of Use  Subsistence  Subsistence  National International Other purpose: Not used at all.  Primary forms removed from the wild  100% >75% 51-75% 26-50% <25% Other forms removed from the wild:  Source of specimens in commercial trade  100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  Red Listing		Drought						_				
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Utilisation of Species Purpose/Type of Use  Subsistence National International Other purpose: Not used at all.  Primary forms removed from the wild 100% >75% 51-75% 26-50% <25% Other forms removed from the wild: Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens: Trend in wild offtake/harvest in relation to total wild population numbers over last five years: Trend in offtake/harvest produced through domestication/cultivation over last five years: CITES:  Red Listing						3.8	Conserva	tion meas	sures			
Purpose/Type of Use  Subsistence National International Other purpose: Not used at all.  Primary forms removed from the wild 100% >75% 51-75% 26-50% <25% Other forms removed from the wild: Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years: Trend in offtake/harvest produced through domestication/cultivation over last five years: CITES:  Red Listing	9.9	Restricted range	✓	<b>✓</b>	<b>~</b>	3.9	Trends/M	onitoring			<b>~</b>	
Primary forms removed from the wild 100% >75% 51-75% 26-50% <25% Other forms removed from the wild:  Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  CITES:  Red Listing	Utilica	tion of Species										
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Source of specimens in commercial trade 100% >75% 51-75% 26-50% <25% Other source of specimens:  Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  CITES:  Red Listing		se/Type of Use							· · ·			
Trend in wild offtake/harvest in relation to total wild population numbers over last five years:  Trend in offtake/harvest produced through domestication/cultivation over last five years:  CITES:  Red Listing	Purpo		100%	>75%	51-7	75%	26-50%	<25%	Other forms removed	from the wile	d:	
Trend in offtake/harvest produced through domestication/cultivation over last five years:  CITES:  Red Listing	Purpos	ry forms removed from the wild									d:	
CITES:  Red Listing	Purpos Primai Source	ry forms removed from the wild e of specimens in commercial trade	100%	>75%	51-	75%	26-50%	<25%			d:	
Red Listing	Purpos Primai Source Trend	ry forms removed from the wild e of specimens in commercial trade in wild offtake/harvest in relation to tot	100% al wild p	>75% opulation	51- numb	75% ers ove	26-50% er last five	<25% years:			d:	
	Purpos Primai Source Trend Trend	ry forms removed from the wild e of specimens in commercial trade in wild offtake/harvest in relation to tot in offtake/harvest produced through do	100% al wild p	>75% opulation	51- numb	75% ers ove	26-50% er last five	<25% years:			d:	
Red List Assessment: Vulnerable (VU) Possibly Extinct	Purpose Primai Source Trend Trend CITES	ry forms removed from the wild e of specimens in commercial trade in wild offtake/harvest in relation to tot in offtake/harvest produced through do	100% al wild p	>75% opulation	51- numb	75% ers ove	26-50% er last five	<25% years:			d:	

Red List Criteria: B2ab(iii)

Rationale for the Red List Assessment:

The species occurs in the Orontes River basin area. Main threats are pollution, water extraction and drought. Population density is described as low. Fewer than 10 locations and continuing decline in

15/12/2004

Date of Assessment:

habitat quality. Assessed as Vulnerable (VU B2ab(iii)).

Current Population Trend: Decreasing

Assessor(s): A.J. Crivelli

Evaluator: A. Karatash, F. Erk'akan, N. Bogutskaya

Notes on Red listing:

## **Bibliography**

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