Rana esculenta			R	egion:	10					
Taxonomic Authority:	Linnaeus, 1758		IX.	egion.	10					
Synonyms:			С	ommon N	lames:	:				
Rana maritima	Risso, 1827			dible Frog			English			
			ra	ana escule	nta		Italian			
			S	iedobnaya	Lyagu	ushka	Russian			
Order: Anura			F	amily:	Rani	dae				
Notes on taxonomy: Previously, Rana esculenta was considered to be a full species or a subspecies. It has since been found to be a hybrid form between the parental species, R. lessonae and R. ridibunda. According to the generally accepted view, this is a kleptospecies, i.e. a new category of taxa at the species level, the character of which does not coincide with the biological species concept. A large majority of past records of "R. esculenta" (except for the designation of R. ridibunda under the same name) refer to R. lessonae or the latter and the hybrid form together. Further studies on the ecology and distribution of the hybrid R. esculenta are needed.										
General Informatio										
Biome	✓ Terre	strial	✓ Fres	shwater		Marir	ne			
Geographic Range of species: This species ranges throughout most of western, central and eastern Europe; populations are largely sympatric with populations of the parental species. It is absent from much of Scandinavia (although present in Denmark and southern most Sweden [it is unclear as to whether the Swedish populations are relicts or introductions]) and much of the Balkans. In Italy it is present only with certainty in the River Po plain. The species has been introduced to the United Kingdom [not mapped here] and to Spain at Villasbuenas de Gata, Cáceres and unspecified localities in Galicia, Cataluña and Comunidad Valenciana. It is generally a lowland taxon which may occur up to approximately 1,550m asl. Conservation Measures: It is listed on Annex V of the EU Natural Habitats Directive and is protected by national legislation in many countries. It is present in many protected areas. In parts of this species' range, mitigation measures to reduce road kill have been established. Habitat and Ecology Information: It is a largely aquatic species associated with wetlands such as ponds, channels, ditches and slow moving rivers and streams. It is generally absent from forests, very large pools and strongly flowing waterbodies. The species spawns and larval development takes place within wetlands such as ponds, channels, ditches and slow moving rivers and streams. It is generally absent from forests, very large pools and strongly flowing waterbodies. The species spawns and larval development takes place within wetlands underbodies. The species apawns and sow moving rivers and streams. It is generally absent from forests, very large pools and strongly flowing waterbodies. The species apawns and larval development takes place within wetlands underbodies. The species apawns and larval development takes place within wetlands underbodies. The species apawns and larval development takes place within wetlands underbodies. The species apawns and larval development takes place within wetlands underbodies. The species								d streams. It is generally ongly flowing waterbodies. takes place within wetland and has spread in parts of suitable habitat (eg. in (often by agrochemicals) g trade and high levels of populations of the former I. 2003). Declines in the		
Species population info	rmation:		K	R. esculenta	a.					
It is generally stable with	large populations in Easter clines reported in parts of V									
Country Distribution	Native - Presence Confirme		Extinct	Reintrod	luced	Introduced	Vagrant			
Austria	<u>~</u>				1					
Belarus	✓				_					
Belgium	✓									
Bosnia and Herzegovina	✓									
Bulgaria	✓									
Croatia	✓									
Czech Republic	✓									
Denmark	✓									
Estonia	✓				_					

Country Distribution	Presence Confirmed	Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Austria	✓					
Belarus	✓					
Belgium	✓					
Bosnia and Herzegovina	✓					
Bulgaria	✓					
Croatia	✓					
Czech Republic	✓					
Denmark	✓					
Estonia	✓					
France	✓					
Germany	✓					
Hungary	✓					
Italy	✓					
Latvia	✓					
Liechtenstein	✓					
Lithuania	✓					
Luxembourg	✓					
Moldova	✓					
Netherlands	✓					
Poland	✓					
Romania	✓					
Russian Federation	✓					

Slovakia	\checkmark			
Slovenia	✓			
Spain			✓	
Sweden	✓		✓	
Switzerland	✓			
Ukraine	✓			
United Kingdom			✓	
Serbia and Montenegro	✓			

Possible

Native - Native - Presence

Confirmed

Extinct Reintroduced Introduced

FAO Marine Habitats

Major Lakes

Major Rivers

Upper Level Habitat Preferences	Score	Lower Level Habitat Preferences	Score
3.4 Shrubland - Temperate	1	Broadleaf Forest	1
4.4 Grassland - Temperate	1	Conifer Boreal Forest	9
5.1 Wetlands (inland) - Permanent Rivers/Streams/Creeks	1	Conifer Forest	1
(includes waterfalls)		Cool Broadleaf Forest	1
5.2 Wetlands (inland) - Seasonal/Intermittent/Irregular Rivers/Streams/Creeks	1	Cool Conifer Forest	9
5.4 Wetlands (inland) - Bogs, Marshes, Swamps, Fens, Pea	ıtlands 1	Cool Crops and Towns	2
5.5 Wetlands (inland) - Permanent Freshwater Lakes (over		Cool Fields and Woods	9
5.6 Wetlands (inland) - Seasonal/Intermittent Freshwater La	,	Cool Forest and Field	1
(over 8ha)		Cool Mixed Forest	9
5.7 Wetlands (inland) - Permanent Freshwater Marshes/Pod	ols 1	Crops and Towns	2
(under 8ha)		Crops, Grass, Shrubs	2
5.8 Wetlands (inland) - Seasonal/Intermittent Freshwater Marshes/Pools (under 8ha)	1	Deciduous and Mixed Boreal Forest	1
11.1 Artificial/Terrestrial - Arable Land	2	Deciduous Broadleaf Wood	1
11.2 Artificial/Terrestrial - Pastureland	2	Evergreen Forest and Fields	1
11.4 Artificial/Terrestrial - Rural Gardens	1	Fields and Woody Savanna	9
11.5 Artificial/Terrestrial - Urban Areas	2	Forest and Field	1
12.2 Artificial/Aguatic - Ponds (below 8ha)	1	Grass Crops	2
12.3 Artificial/Aquatic - Aquaculture Ponds	1	Marsh Wetland	9
4		Mire, Bog, Fen	9
		Mixed Forest	1
		Shrub Deciduous	9
		Small Leaf Mixed Woods	2
		Urban	2
		Woody Savanna	2

Major threats					Conservation Measures						
Code	Description of threat		Past Present Future		Code	Conservation measures	In place Needed				
1	Habitat Loss/Degradation (human induced)	✓	✓	/	1	Policy-based actions	[-	/			
1.1	Agriculture	✓	✓	✓	1.2	Legislation	[-	/			
1.1.1	Crops	✓	✓	~	1.2.1	Development	[-	/			
1.1.1.3	Agro-industry farming	✓	✓	~	1.2.1.1	International level	[-	/			
1.1.4	Livestock	✓	✓	~	1.2.1.2	2 National level	[-	/			
1.1.4.3	Agro-industry	✓	✓	/	1.2.2	Implementation	[-	/			
1.4	Infrastructure development	✓	✓	/	1.2.2.1	International level	[-	/			
1.4.1	Industry	✓	✓	~	1.2.2.2	2 National level	[-	/			
1.4.2	Human settlement	✓	✓	/	3	Research actions			✓		
3	Harvesting (hunting/gathering)	✓	✓	~	3.1	Taxonomy			✓		
3.1	Food	✓	✓	/	3.2	Population numbers and range			✓		
3.1.3	Regional/international trade	✓	✓	/	3.3	Biology and Ecology			✓		
6	Pollution (affecting habitat and/or species)	✓	✓	/	3.4	Habitat status			✓		
6.3	Water pollution	✓	✓	~	3.5	Threats			✓		

6.3.1 Agriculture6.3.2 Domestic6.3.3 Commercial/Industrial				3.6 3.8 3.9 4 4.1 4.4 4.4.2 4.4.3 5 5.3 5.3.1 5.3.2	Uses and Conserva Trends/M Habitat a Maintena Protected Establish Managen Species-I Sustainal Harvest r Trade ma	ation mea lonitoring nd site-b nce/Con d areas ment nent based ac ble use managem	asures assed actions servation tions		
<u>Utilisa</u>	tion of Species								
Purpose/Type of Use 1. Food - human		Subs	sistence	Nationa ✓			Other purpose:		
Primary forms removed from the wild		100%	100% >75%		2 6-50% <25%		Other forms removed to	from the will	٠.
Whole animal/plant		√	13 /0	51-75%	20-30 /0		Outer forms removed i	Tom the wife	4.
Source of specimens in commercial trade		100%	>75%	51-75%	26-50%	<25%	Other source of specin	nens:	
Wild		✓							
Trend	in wild offtake/harvest in relation to to	tal wild po	pulation	numbers ov	er last five	e years:	Increasing		
Trend CITES	in offtake/harvest produced through d : Not listed	lomesticati	ion/cultiv	ation over la	ast five ye	ars:			
Red Li	Listing st Assessment: Least Concern (LC) st Criteria:			F	ossibly Ex	tinct			
Ration	pr		ge popula	ation, and be			, tolerance of a broad rang o be declining fast enough		
Asses	nt Population Trend: Decreasing sor(s): Sergius Kuzmin, Trevor Beebe on Red listing:	ee, Franco A	Andreone		of Assessi othony, Bei		4/5/2004 hmidt, Agnieszka Ogrodov	vczyk, Vladim	nir Ishc
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