Region: 10						
-						
Common Names:	Common Names:					
Common Spadefoot	English					
Grzebiuszka Ziemna	Polish					
Obyknovennaya Chesnochnitsa	Russian					
pelobate fosco	Italian					
Family: Pelobatidae						
way on this taxon. It seems possible that	t it might be a complex of more than					
	Common Names: Common Spadefoot Grzebiuszka Ziemna Obyknovennaya Chesnochnitsa pelobate fosco Family: Pelobatidae					

## **General Information**

Biome			<ul> <li>Terrestrial</li> </ul>
-	 _	-	

Geographic Range of species:

This is a lowland species found throughout much of the plains and hilly regions of Europe, from eastern Netherlands, eastern Belgium and eastern France, east through Germeny, Denmark and central Europe to western Siberia (Russia) and northwestern Kazakhstan. Records from the Bosphorus area of Turkey reported by Eiselt (1988) need to be confirmed and are not mapped here. It ranges from sea level up to 675m asl. There is a very isolated population in Argenton-sur-Creuse in central France, and another isolated population (an endemic subspecies, Pelobates fuscus insubricus) in the Po Valley of northern Italy.

#### **Conservation Measures:**

It is protected by national legislation in most European range states. Listed on Appendix II of the Berne Convention. It is listed on Annex IV and Pelobates fuscus insubricus is listed on Annex II of the EU Natural Habitats Directive. The species is recorded in a number of national and sub-national Red Data Books and Lists. It is present in many protected areas. In parts of this species' range, mitigation measures to reduce road kill have been established. A conservation programme is in place for the isolated population in central France.

### Species population information:

Populations are reported to be declining or rare in some European countries (eg. Italy, Sweden, Denmark, Slovenia, Hungary). It is generally common in Poland. The species is common and widespread in the European part of the former Soviet Union. It is extinct in Switzerland.

#### 

## Habitat and Ecology Information:

It is mostly present in open areas, generally avoiding moist soils. It inhabits clear spaces in coniferous, deciduous and mixed forests (and their edges), groves, steppes, fields, meadows, sand dunes, heath land, gravel pits, parks and gardens. Spawning sites are mostly permanent, small still waterbodies including ditches, ponds and lakes. It may occur in modified habitats such as rice fields (in Italy).

## Threats:

The species seems to be very sensitive to water quality and soil structure. Pollution of wetlands by industry, domestic sewage and agriculture (including eutrophication), drainage of breeding pools and introduction of predatory fishes and crayfish are major threats to the species. The species is also threatened by loss of terrestrial habitats (such as meadows) by factors such as intensive agriculture (e.g., overstocking of cattle) and mortality on roads (and off-road driving). The species is collected in small numbers for the pet trade.

Country Distribution	Native - Presence Confirmed	Native - Presence Possible	Extinct	Reintroduced	Introduced	Vagrant
Austria	$\checkmark$					
Belarus	$\checkmark$					
Belgium	$\checkmark$					
Bosnia and Herzegovina	$\checkmark$					
Bulgaria	$\checkmark$					
Croatia	$\checkmark$					
Czech Republic	$\checkmark$					
Denmark	$\checkmark$					
Estonia	$\checkmark$					
France	$\checkmark$					
Germany	$\checkmark$					
Hungary	$\checkmark$					
Italy	$\checkmark$					
Kazakhstan	$\checkmark$					
Latvia	$\checkmark$					
Lithuania	$\checkmark$					
Moldova	$\checkmark$					
Netherlands	$\checkmark$					
Poland	$\checkmark$					
Romania	$\checkmark$					
Russian Federation	$\checkmark$					

Slovakia	$\checkmark$			
Slovenia	$\checkmark$			
Sweden	$\checkmark$			
Switzerland		$\checkmark$		
Ukraine	$\checkmark$			
Serbia and Montenegro	$\checkmark$			

**FAO Marine Habitats** 

Native -Native -

Presence Presence Confirmed Possible

Extinct Reintroduced Introduced

Major Lakes

# **Major Rivers**

Upper Level Habitat Preferences	Score	Lower Level Habitat Preferences	Score
1.4 Forest - Temperate	1	Broadleaf Forest	1
3.3 Shrubland - Boreal	1	Conifer Boreal Forest	2
3.4 Shrubland - Temperate	1	Conifer Forest	1
4.4 Grassland - Temperate	1	Cool Broadleaf Forest	1
5.5 Wetlands (inland) - Permanent Freshwater Lakes (over 8h	a) 2	Cool Conifer Forest	2
5.7 Wetlands (inland) - Permanent Freshwater Marshes/Pools	1	Cool Crops and Towns	2
(under 8ha)		Cool Fields and Woods	1
5.8 Wetlands (inland) - Seasonal/Intermittent Freshwater	1	Cool Mixed Forest	2
Marshes/Pools (under 8ha) 5.13 Wetlands (inland) - Permanent Inland Deltas	2	Deciduous Broadleaf Wood	1
10.2 Coastline - Sand, Shingle or Pebble Shores (incl. sand bar	-	Dry Woody Scrub	1
spits, sandy islets, dune systems)	5, 2	Fields and Woody Savanna	1
11.1 Artificial/Terrestrial - Arable Land	1	Grass Crops	1
11.2 Artificial/Terrestrial - Pastureland	1	Low Sparse Grassland	1
11.4 Artificial/Terrestrial - Rural Gardens	1	Mediterranean Scrub	1
11.5 Artificial/Terrestrial - Urban Areas	2	Mixed Forest	1
12.2 Artificial/Aquatic - Ponds (below 8ha)	1	Shrub Deciduous	1
12.5 Artificial/Aquatic - Excavations (open)	1	Urban	1
12.7 Artificial/Aquatic - Irrigated Land (includes irrigation channel	els) 1		
12.8 Artificial/Aquatic - Seasonally Flooded Agricultural Land	1		

1

## **Major threats**

12.9 Artificial/Aquatic - Canals and Drainage Channels, Ditches

#### **Conservation Measures** Code Conservation measures Code **Description of threat** Past Present Future In place Needed 1 Habitat Loss/Degradation (human induced) ✓ ✓ ✓ 1 Policy-based actions ✓ **~** ✓ 1.2 Agriculture ✓ Legislation 1.1 $\checkmark$ Crops ✓ ✓ ✓ 1.2.1 Development 1.1.1 ✓ ✓ ✓ ✓ 1.1.1.3 Agro-industry farming 1.2.1.1 International level ✓ 1.1.4 Livestock ✓ ✓ ✓ 1.2.1.2 National level ✓ **~** ✓ ✓ 1.2.2 Implementation ✓ 1.1.4.3 Agro-industry **~** ✓ **~** 1.4 Infrastructure development 1.2.2.1 International level ✓ **~** ~ ~ 1.2.2.2 National level 1.4.1 Industry ✓ ✓ ✓ 1.4.2 Human settlement ✓ 1.2.2.3 Sub-national level ✓ **~** ✓ 2 Invasive alien species (directly affecting the ✓ 2 Communication and Education ✓ ✓ species) 2.2 Awareness ✓ ✓ **~** ✓ 2.2 ✓ Predators 3 Research actions ~ ✓ 6 Pollution (affecting habitat and/or species) ✓ ✓ 3.2 Population numbers and range ~ ✓ **~** 6.3 Water pollution ✓ **Biology and Ecology** 3.3 ✓ ✓ Agriculture ✓ ✓ 6.3.1 ✓ 3.4 Habitat status **~** ✓ 6.3.2 ✓ Domestic 3.5 Threats **~** ✓ ~ **~** 6.3.3 Commercial/Industrial 3.6 Uses and harvest levels **~** 3.8 Conservation measures ✓

3.9

4

Trends/Monitoring

Habitat and site-based actions

✓

✓

✓

		<ul> <li>4.1 Maintenance/Conservation</li> <li>4.4 Protected areas</li> <li>4.4.2 Establishment</li> <li>4.4.3 Management</li> <li>5 Species-based actions</li> <li>5.1 Re-introductions</li> </ul>					V V V V V	<b>&gt;</b> <b>&gt;</b>
Utilisation of Species								
Purpose/Type of Use 13. Pets/display animals, horticulture	Sub	sistence	Nationa		ational 🖊	Other purpose:		
Primary forms removed from the wild 1. Whole animal/plant	100% ✓	>75%	51-75%	26-50%	<25%	Other forms remove	d from the wild	d:
Source of specimens in commercial trade Wild	100% ✓	>75%	51-75%	26-50%	<25%	Other source of spe	cimens:	
Trend in wild offtake/harvest in relation to to	tal wild po	pulation r	numbers ov	er last fiv	e years:	Unknown		
Trend in offtake/harvest produced through d           CITES:         Not listed	omesticat	ion/cultiva	ation over la	ast five ye	ars:	Unknown		
Red Listing Red List Assessment: Least Concern (LC) Red List Criteria:			F	Possibly Ex	tinct			
Rationale for the Red List Assessment: Lis			fast enough	to qualify	for listing	presumed large popula in a more threatened ca		use it is
Current Population Trend: Decreasing		1		of Assess		12/17/2004	ika a dawa Dawaw	<i>(</i> 0
	bates fusc	us insubric of populati	cus is report ions of this f	ed to be de orm is pos	eclining si sibly due	ignificantly in most of its to the habitat alteration	s northern Italia	
Eggert, C., 2002, Use of fluorescent pigments a , 1995, , , Amphibian Populations in the Commo Pikulik, M.M., , , Pensoft, Moscow Puky, M. et al., 2003, , , Preliminary herpetologi Arnold, E.N., 2003, , , Reptiles and amphibians Vogrin, M., 2002, Amphibians, , Nature in munio Tarkhnishvili, D.N. and Gokhelashvili, R.K., 199 Union, , , 4, 1-229, , Andreone, F., Fortina R. and Chiminello, A., 199 insubricus, Scientific Reports, Soc. Zool. La Too Puky, M., 2000, A kétéltűek védelme Magyarors vertebrate species), Faragó, S., , 143-158, Nyu Kuzmin, S.L., 1995, , , Die Amphibien Russland Pestov, M. and Anufriev, V., 2001, The Frog Pri Dely, G., 1967, , , Kétéltűek-Amphibia: Magyaror Nuyarski, M., 1966, Plazy I Gady Polski, Panst Smit, G., 1998, DAPTF-Netherlands Report, Fro Garanin, V.I., 2000, The distribution of amphibia 79-132, , Kuzmin, S.L., 1999, , , The Amphibians of the F Grossenbacher, K., 1994, Rote Liste der gefähr 33-34. BUWAL (Bundesamt für Umwelt, Wald u	onwealth of cal atlas of of Europe, cipality Kidr 9, The amp 23, Natural biera, , , 2, szágon (Co gat-Magyar s und Angr ncess and ország Állat d kill surve t, wowe Zakla ogLog, , , 2 ans in the V ormer Sovi deten Amp	Independer Hungary, , , 288, Pri- ricevo, Vog phibians of history, ec 1-96, , nservation rországi Eg renzender Other Proj világa, Fau y in Balato ady Wydav 8, , , Yolga-Kama fet Union, , hibien der	ent States: ( , , pp. 86, V inceton Univ grin, M., , 99 f the Caucas cology and c of amphibia gyetem Erdő Gebiete, , , jects, FrogL unae Hunga on - Uplands wnictw Szko a region, , A , , , Pensoft, Schweiz, , 1	Current Sta arangy Aka versity Pre -106, Mun sus, Advan onservatic ans in Hun omérnöki K , Westarp og, , , 46, , riae, , , , Á National F Inych, Wai dvances ir Sofia-Mos	atus and I ciócsopor ss, icipality K ces in An on of the It gary), , G ar, Sopro – Spektru , kadémiai Park and r rszawa, , n Amphibi scow	Declines, Kuzmin, S.L. I t Egyesület, Budapest iidricevo, nphibian Research in th talian spadefoot toad, P ierinces állatfajok védel m, Magdeburg - Heidel Kiadó, Budapest recommendations to mi , 75, , ,	Dodd Jr, C.K. a e Former Sovie Pelobates fuscus me (Conservati berg tigation measur	et s on of 'es, , , , , 'n, , 5,
33-34, BUWAL (Bundesamt für Umwelt, Wald u Kalezic, M. and Dzukic, G., 2001, Amphibian st Kuzmin, S.L., 1996, Threatened amphibians in	atus in Serl	bia and Mo Soviet Unio	ontenegro (F on: the curre	ent situatio	n and the	e main threats, Oryx, , , ;		
, 1997, , , Atlas of Amphibians and Reptiles in E Naturelle, Paris Schád, P., Puky, M. and Kiss, I., 1999, A Naplá	urope, Gas	sc, JP., , ·	494, Societa	as Europea	a Herpeto	logica & Museum Natio	nal d'Histoire	
Közlemények, , , 8, 161-172, , Mazanaeva, L.F., 2000, The distribution of amp 156, ,	hibians in [	Daghestan	, Advances	in Amphibi	an Resea	arch in the Former Sovie	et Union, , , 5, 1	41-

Gorovaya, V.I. and Dzhandarov, I.I., 1987, Distribution and ecology of Pelobates fuscus in Northern Caucasus, , Problemy Regionalnoi Fauny i Ekologii Zhivotnykh, , , 4-10, , Stavropol

Borkin, L.J., Litvinchuk, S.N., Rosanov, J.M. and Milto, K.D., 2001, Cryptic speciation in Pelobates fuscus (Anura, Pelobatidae): evidence from DNA flow cytometry, Amphibia-Reptilia, , , 22(4), 387-396, ,

Vogrin, N., 1997, The Status of Amphibians in Slovenia, FrogLog, , , 20, , ,

Jehle, R., Hödl, W. and Thonke, A., 1995, Structure and dynamics of central European amphibian populations: A comparison between Triturus dobrogicus (Amphibia, Urodela) and Pelobates fuscus (Amphibia, Anura), Australian Journal of Ecology, , , 20(3), 362-366, ,

Lacoste, V. and Durrer, H., 1999, Past distribution and current status of the Common Spadefoot (Pelobates fuscus) in the plain of the Upper Rhine and strategies of reintroduction, , Current Studies in Herpetology: Proceedings of the 9th Ordinary General Meeting of the Societas Europaea Herpetologica 25-29 August 1998, Le Bourget du Lac, France., Miaud, C. and Guyetant, R., , 239-247, Societas Europaea Herpetologica, Le Bourget du Lac, France

Eggert, C. and Guyétant, R., 1999, Age structure of a Spadefoot toad Pelobates fuscus (Pelobatidae) population, Copeia, , , 1999, 1127-1130, ,

Nyström, P., Birkedal, L., Dahlberg, C. and Brönmark, C., 2002, The declining spadefoot toad Pelobates fuscus: calling site choice and conservation, Ecography, , , 25, 488-498, ,

Noellert, A., 1984, Die Knoblauchkrote, , Wittenberg Lutherstadt, Zimsen Verlag, Die Neue Brehm Bucherei, 265, , , , ,

Parent, G.H., 1985, Précisions sur la répartition du Pélobate brun, Pelobates fuscus(Laurenti, 1768), en France, Alytes, , , 4(2), 52-60, ,

Puky, M., 2003, Amphibian mitigation measures in Central-Europe, , Proceedings of the International Conference on Ecology and Transportation, 26-31 August, 2003, Lake Placid, New York, USA, Irwin, L.C., Garrett, P. and McDermott, K.P., , 413-429, Center for Transportation and the Environment, North Carolina State University, USA,

Kovács, T. and Papp, M., 2002, Breeding pond survey in Hungary: and example of sucessful cooperation, FrogLog, , , 50, , ,

Baran, I. and Atatür, M.K., 1998, , , Turkish herpetofauna (amphibians and reptiles), , , 214 pp, Republic of Turkey Ministry of Environment, Ankara

Fog, K., 1995, Amphibian conservation in Denmark, FrogLog, , , 13, , ,

Demirsoy, A., 1996, , , Tükiye Omurgalilari, Sürüngenler, , , 205 pp, Meteksen, Ankara

Vogrin, N., 1997, A new record of the common spadefoot Pelobates fuscus fuscus (Laurenti, 1768), in Slovenia (Anura: Pelobatidae), Herpetozoa, , , 10(1/2), 89-90, ,

Savage, R.M., 1942, The burrowing and emergence of the spade-foot toad, Pelobates fuscus fuscus, Proceedings of the Zoological Society of London, , , 112, 21-35, ,

Lada, G.A., 1994, On the biology of Pelobates fuscus in the Central Chernozyom region, , Flora i Fauna Chernozemya, , , 74-83, , Tambov

Andreone, F., 2000, Pelobates fuscus insubricus: distribuzione, biologia e conservazione di un taxon minacciato. Piano d'Azione - Action Plan, , , , , , , Progetto LIFE-NATURA 1998 "Azioni urgenti per la conservazione di Pelobates fuscus insubricus" n. B4-3200/98/486. Relazione al WWF Italia e alla Comunità Europea.,

Andreone, F. and Pavignano, I., 1988, Observations on the breeding migration of Pelobates fuscus insubricus Conalia, 1873 at a ditch in north western Italy (Amphibia, Anura, Pelobatidae), Bollettino del Museo Regionale di Scienze Naturali - Torino, , , 6(1), 241-250, , Ferri, V., 2002, Crisis less severe for the Po Valley Spadefoot, Pelobates fuscus insubricus, FrogLog, , , 49, 1-2, ,

Bannikov, A.G., Darevsky, I.S., Ishchenko, V.G., Rustamov, A.K. and Szczerbak, N.N., 1977, , , Opredelitel Zemnovodnykh i Presmykayushchikhsya Fauny SSSR [Guide to Amphibians and Reptiles of the USSR Fauna], , , , Prosvechshenie, Moscow Eggert, C. and Guyétant, R., 2003, Reproductive behaviour of spadefood toads (Pelobates fuscus): daily sex ratio and males' tactics, age, and

Eggert, C. and Guyetant, R., 2003, Reproductive behaviour of spadefood toads (Pelobates fuscus): dailing sex ratio and males' factics, age, and physical condition, Canadian Journal of Zoology, , , 81, 46-51, ,

Kovács, T., 2002, Monitoring of amphibians and reptiles along the Drava River, FrogLog, , , 52, , ,

Puky, M., 2001, Herpetological methods: I. On the use of the road transect method in surveying amphibians with examples from different zoogeographical regions of Hungary, Opuscula Zoologica, Budapest, , , 33, 75-81, ,

Eiselt, J., 1988, Krötenfrösche (Pelobates gen., Amphibia salientia) in Türkisch-Thrakien und Griechenland, Ann. Naturhist. Mus. Wien; (B), , , 90, 51-59, ,