

German Red Data Book on endangered habitats

(short version, July 2009)

Riecken, U., Finck, P., Raths, U., Schröder, E. & Ssymank, A.

Source of the threat assessment:

Riecken, U., Finck, P., Raths, U., Schröder, E. & Ssymank, A. (2006):
Rote Liste der gefährdeten Biotoptypen Deutschlands. Zweite fortgeschriebene Fassung 2006. –
Naturschutz und Biologische Vielfalt 34, 318 S.



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Trend - Decreasing, +/- Stable, + Increasing, ? Insufficient data

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Code	Habitat type	Sea and Coastline	NW Lowlands	NE Lowlands	W Uplands	E Uplands	SW Uplands	Alpine Foothills	Alps	Germany	Trend	RE
01.	OFFSHORE WATERS (NORTH SEA)	3								3	+/-	B
01.01	Pelagic zone in North Sea offshore waters	3								3	+/-	B
01.02	Benthic zone in North Sea offshore waters, largely free of macrophytes											
01.02.01	Shallow, natural hard substrate habitat in North Sea offshore waters	3								3	+/-	K
01.02.02	Hard substrate reef in North Sea offshore waters	3								3	+/-	K
01.02.03	Biogenic reef in North Sea offshore waters	?								?	?	S
01.02.04	Gravel habitat in North Sea offshore waters	3								3	-	B
01.02.05	Shell debris habitat in North Sea offshore waters	3								3	+/-	B
01.02.06	Shallow sand habitats in North Sea offshore waters	3								3	-	B
01.02.07	Sandbank in North Sea offshore waters (habitat complex)	3								3	+/-	B
01.02.08	Fine substrate habitats in North Sea offshore waters	2-3								2-3	+/-	B
01.02.09	Peat habitat in North Sea offshore waters	?								?	?	?
02.	OFFSHORE WATERS (BALTIC SEA)											
02.01	Pelagic zone in Baltic Sea offshore waters	2-3								2-3	+/-	B
02.02	Benthic zone in Baltic Sea offshore waters											
02.02.01	Shallow, natural hard substrate habitats in Baltic Sea offshore waters, with hard loamy and stony substrates (e.g. chalk and marl, generally with stones and boulders), in some cases moraine relicts	3								3	?	B
02.02.02	Hard substrate reefs in Baltic Sea offshore waters, with hard loamy and stony substrates (e.g. chalk and marl, generally with stones and boulders), in some cases moraine relicts	2								2	-	B
02.02.03	Biogenic reef in Baltic Sea offshore waters (blue mussel bed)	3								3	?	S
02.02.04	Gravel habitat in Baltic Sea offshore waters	2								2	-	K
02.02.05	Shell debris habitats in Baltic Sea offshore waters	*								*	?	?
02.02.06	Level sand habitats in Baltic Sea offshore waters	*								*	+/-	B
02.02.07	Sandbank in Baltic Sea offshore waters (including megaripple fields)	3								3	+/-	B
02.02.08	Fine substrate habitats in Baltic Sea offshore waters	3								3	+/-	B
02.02.09	Eelgrass bed in Baltic Sea offshore waters	2								2	-	K
02.02.10	Peat habitat in Baltic Sea offshore waters	R								R	?	K
03.	COASTAL WATERS OF THE NORTH SEA (sublittoral)											
03.01	Pelagic zone in North Sea coastal waters	3								3	+/-	B
03.02	Benthic zone in North Sea coastal waters											
03.02.01	Shallow, rocky/stony natural hard substrate habitat in North Sea coastal waters	3								3	+/-	S
03.02.02	Hard substrate reef in North Sea coastal waters	3								3	?	S

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03.02.03	Biogenic reefs in North Sea coastal waters											
03.02.03.01	Blue mussel bed in North Sea coastal waters	3								3	+/-	B
03.02.03.02	Sabellaria reef in North Sea coastal waters	1								1	?	K
03.02.03.03	Sertularia cupressina and Hydrallmania falcata bed of the sublittoral zone of North Sea coastal waters	2								2	?	B
03.02.03.04	Flat oyster bed in North Sea coastal waters	0								0	?	K
03.02.03.05	Pacific oyster bed in North Sea coastal waters	*								*	+	X
03.02.04	Gravel habitat in North Sea coastal waters	R								R	+/-	S
03.02.05	Shell debris habitat in North Sea coastal waters	3								3	+/-	S
03.02.06	Shallow sand habitats in North Sea coastal waters	2-3								2-3	+/-	S
03.02.07	Sandbank in North Sea coastal waters, with or without macrophytes	3								3	+/-	S
03.02.08	Fine substrate habitats in North Sea coastal waters	2-3								2-3	-	B
04.	COASTAL WATERS OF THE BALTIC SEA (boddens including the Schlei inlet, haffs and estuaries)											
04.01	Pelagic zone in Baltic Sea internal waters	2								2	+/-	S
04.02	Benthic zone in Baltic Sea internal waters (sublittoral)											
04.02.01	Shallow natural hard substrate habitats in Baltic Sea internal waters	2-3								2-3	?	S
04.02.02	Hard substrate reefs in Baltic Sea internal waters	?								?	?	S
04.02.03	Biogenic reefs in Baltic Sea internal waters	2								2	?	B
04.02.04	Gravel habitats in Baltic Sea internal waters	2								2	-	S
04.02.05	Shell debris habitat in Baltic Sea internal waters	R								R	?	?
04.02.06	Shallow sand habitats in Baltic Sea internal waters	2-3								2-3	+/-	B
04.02.07	Sandbank in Baltic Sea internal waters	?								?	?	B
04.02.08	Fine substrate habitats in Baltic Sea internal waters	2-3								2-3	+/-	S
04.02.09	Peat habitat in Baltic Sea internal waters	2								2	-	B
05.	INTERTIDAL FLATS OF THE NORTH SEA (eulittoral, excluding brackish and salt water reedbeds)											
05.01	North Sea rocky tidal flats	3								3	+/-	N
05.02	North Sea sandflats	2-3								2-3	+/-	B
05.03	North Sea mudflats	2-3								2-3	+/-	B
05.04	North Sea mixed sand and mud flats	2-3								2-3	+/-	B
05.05	Blue mussel beds of the eulittoral zone of the North Sea	2-3								2-3	+/-	B
05.06	Brackish flats in North Sea estuaries	2								2	+/-	B
05.07	Freshwater flats of the North Sea intertidal zone	2								2	-	S

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05.08	North Sea coast 'floating bog' (Sehestedter Moor)	1								1	-	N
05.09	Tidal gullies and tidal channels	3								3	+/-	B
06.	HYDROLITTORAL ZONE OF THE BALTIC SEA (episodically dry, excluding brackish water reedbeds)											
06.01	Hydrolittoral zone of the Baltic Sea with stony substrate (stones and boulders)	2-3								2-3	+/-	S
06.02	Hydrolittoral zone of the Baltic Sea with gravelly substrate	3								3	+/-	S
06.03	Hydrolittoral zone of the Baltic Sea with sand substrate	3								3	+/-	S
06.04	Hydrolittoral zone of the Baltic Sea with mud substrate	2-3								2-3	+/-	B
06.05	Hydrolittoral zone of the Baltic Sea with mixed substrate	2-3								2-3	+/-	B
06.06	Hydrolittoral zone of the Baltic Sea with peat substrate (generally free of or low in macrophytes)	2								2	+/-	S
07.	SALT MARSHES OF THE NORTH SEA (supralittoral)											
07.01	Low salt marshes of the North Sea coast (e.g. Puccinellion maritimae Christiansen 1927)	2								2	-	S
07.02	High salt marshes of the North Sea coast (e.g. red fescue and saltmarsh rush salt marsh)	2-3								2-3	+	S
07.03	Shoreline meadow complex of the North Sea coast	2								2	+/-	S
07.04	Brackish and salt water reedbeds of the North Sea coast and estuaries	2								2	+/-	B
07.05	Brackish water tall (perennial) herb vegetation of the North Sea coast and estuaries	2								2	+/-	B
07.06	Brackish water-influenced grassland of the North Sea coast and estuaries	2								2	+/-	B
08.	SALT MARSHES, BRACKISH REEDBEDS AND TALL (PERENNIAL) HERB VEGETATION OF THE BALTIC GEOLITTORAL COASTAL ZONE											
08.01	Salt marshes of the Baltic Sea geolittoral zone (excluding reedbeds)	2								2	+/-	B
08.02	Brackish water reedbeds of the Baltic Sea coast (hydrolittoral geolittoral transition)	3								3	+	B
08.03	Brackish water tall (perennial) herb vegetation of the Baltic Sea coast	2-3								2-3	+	B
08.04	Pool, scour and channel of the geolittoral zone of the Baltic Sea coast, with pioneer vegetation (cordgrass etc.)	2								2	+/-	B
08.05	Shoreline meadow [habitat complex]	2								2	+/-	B
09.	SANDS, SAND, SHINGLE AND BOULDER BEACHES											
09.01	Sandbank, outer sand and spit	3								3	+/-	B
09.02	Sand beaches and sandbars	2-3								2-3	+/-	B

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09.03	Gravel and shingle beaches	3								3	+/-	S
09.04	Boulder beaches	3								3	+/-	S
09.05	Barrier beaches	2								2	+/-	K
09.06	Lagoons and shoreline ponds	1								1	+/-	K
10.	COASTAL DUNES											
10.01	Foredune	2								2	-	B
10.02	Shifting ('white') dune along the shoreline	2-3								2-3	+/-	S
10.03	Fixed ('grey') dunes (dune grassland)	2-3								2-3	-	S
10.04	'Brown' dunes (coastal dune heathland)	2								2	-	S
10.05	Moist/wet dune valleys, including dune peatland [habitat complex]	1-2								1-2	-	S
10.06	Dune scrubs	3								3	+	S
10.07	Mobile dune	1								1	+/-	S
11.	COASTAL CLIFFS											
11.01	Sandstone cliff (Heligoland)	2								2	-	K
11.02	Chalk cliff (Baltic Sea)	3								3	-	N
11.03	Geest cliffs of the North Frisian islands	2								2	-	N
11.04	Moraine cliffs of the Baltic Sea	3								3	+/-	N
21.	GROUNDWATER AND CAVE WATERS											
21.01	Groundwater		2	2	3	3	3	2	3	2-3	+/-	N
21.02	Cave streams		-	-	3	3	3	*	*	3	+/-	N
21.03	Cave lakes		-	-	3	3	3	*	*	3	+/-	N
22.	SPRINGS, including the headstream (hypocrenal) zone											
22.01	Seepage and marshy springs (helocrenes)		1-2	1-2	2	2	2	2	3	2	-	K
22.02	Pooling springs (limnocrenes)		1	1-2	1	2	2	1	2	1-2	-	K
22.03	Flowing springs (rheocrenes)		1-2	1	2	2	2	2	3	2	-	B
22.04	Saline springs		1	1	1	1	1	-	-	1	+/-	N
22.05	Tapped springs		*	*	*	*	*	*	*	*	+/-	X
23.	SURFACE RUNNING WATERS											
23.01	Natural and near-natural running waters		1	1-2	1-2	1-2	1-2	1	2	1-2	-	K
23.01.01	Natural and near-natural rhithrals		1-2	1-2	2	2	2	1-2	2	2	-	K
23.01.02	Natural and near-natural potamals		1	1-2	1	1-2	1-2	1	-	1	-	K

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23.02	Watercourses subject to moderate anthropogenic modification		2	2-3	3	3	3	2	3	2-3	-	S
23.02.01	rhithrals subject to moderate anthropogenic modification		2	2-3	3	3	3	2	3	2-3	-	S
23.02.02	potamals subject to moderate anthropogenic modification		2	2	3	3	3	2	-	2-3	-	S
23.03	Watercourses subject to major anthropogenic moderation		*	*	*	*	*	*	*	*	+	X
23.03.01	Watercourse subject to major anthropogenic moderation, fast-flowing (of rhithral character)		*	*	*	*	*	*	*	*	+/-	X
23.03.02	Watercourse subject to major anthropogenic moderation, slow-flowing (of potamal character)		*	*	*	*	*	*	*	*	+	X
23.04	Watercourses subject to severe anthropogenic moderation		*	*	*	*	*	-	*	*	+	X
23.04.01	Watercourse subject to severe anthropogenic moderation, fast-flowing		*	*	*	*	*	-	*	*	+/-	X
23.04.02	Watercourse subject to major anthropogenic moderation, slow-flowing		*	*	*	*	*	-	*	*	+	X
23.05	Watercourses of a technical nature (including salt channels)		*	*	*	*	*	*	*	*	-	X
23.05.01	Dug channels with flowing water all year		3	3	3	3	3	3	3	3	+/-	X
23.05.02	Gutter or half-pipe		*	*	*	*	*	*	*	*	+/-	X
23.05.03	Culvert		*	*	*	*	*	*	*	*	-	X
23.06	Inland confluences		3	3	3	3	2	3	*	3	+/-	K
23.07	Special watercourse features											
23.07.01	Waterfall		-	-	2-3	2	2	2	*	2	+/-	B
23.07.02	Oxbow		1	1	1	1-2	1	1-2	3	1	+/-	S
23.07.03	Lake outlet stream		3	3	3	3	3	3	3	3	+/-	S
23.07.04	Dammed river		*	*	*	*	*	*	*	*	+/-	X
23.07.05	Salty stream		1	1-2	1	2	-	-	-	1-2	-	N
23.08	Intermittently exposed habitats below mean water level of watercourses		2	2	2	2	2	2	2-3	2	-	S
23.09	Natural and near-natural temporary watercourses		1-2	1-2	2	2	2	1-2	2-3	2	-	S
24.	SURFACE STANDING WATERS											
24.01	Dystrophic standing waters/peatland waters		2	2	1-2	1-2	1-2	2	2-3	2	-	K
24.01.01	Natural or near-natural dystrophic lake or pond		1	2	1-2	1	1-2	3	2-3	2	-	N
24.01.02	Abandoned dystrophic post-mining waterbody		3	3	2	2	2	3	3	3	-	X
24.01.03	Dystrophic intermittent pool		1	2	1-2	1	1-2	2	2-3	2	-	S

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24.02	Oligotrophic standing waters		1-2	2	2	2	2	2	2-3	2	-	S
24.02.01	Oligotrophic lakes		1	1-2	1	1	2	1-2	2	1-2	-	S
24.02.02	Oligotrophic natural ponds		1	1	1-2	1-2	1-2	2	2-3	1-2	-	S
24.02.03	Abandoned oligotrophic post-mining waterbodies		2	2	2	3	3	2-3	3	2-3	-	X
24.02.04	Oligotrophic intermittent pools		2	2	2-3	2-3	2	2	2-3	2-3	-	B
24.03	Mesotrophic standing waters		2	2	2	2	2	2	3	2	-	B
24.03.01	Mesotrophic lakes		2	2	2	2	2	2	3	2	-	S
24.03.02	Mesotrophic oxbow lakes		1	1	1	1	1-2	1-2	2	1	-	S
24.03.03	Mesotrophic natural or near-natural shallow lakes and ponds		1-2	1-2	2	2	2	2	2	2	-	S
24.03.04	Mesotrophic abandoned post-mining waterbodies		2-3	2-3	2-3	2-3	2-3	2-3	3	2-3	+/-	X
24.03.05	Mesotrophic intermittent pools		2	2	3	3	3	2	2-3	2-3	-	B
24.04	Eutrophic standing waters		2-3	2-3	2-3	2-3	2-3	2-3	3	2-3	+	B
24.04.01	Eutrophic lake		3	3	2-3	2-3	3	3	-	3	+	S
24.04.02	Eutrophic oxbow lake		2	2	2	2	2	2	3	2	-	S
24.04.03	Eutrophic natural or near-natural shallow lake or pond		2	2	2-3	2-3	2-3	2-3	3	2-3	+/-	S
24.04.04	Eutrophic abandoned post-mining waterbody (near-natural)		3	3	3	3	3	3	-	3	+	X
24.04.05	Eutrophic intermittent pool		2	2-3	3	3	2	2	3	2-3	-	B
24.05	Poly-hypertrophic standing waters		*	*	*	*	*	*	*	*	-	X
24.05.01	Poly-hypertrophic lake or natural pond		*	*	*	*	*	*	*	*	-	X
24.05.02	Poly-hypertrophic intermittent pool		*	*	*	*	*	*	*	*	+/-	X
24.06	Saline inland waters		1	2	-	2	-	-	-	1-2	-	N
24.06.01	Saline perennial standing water (inland salt habitat)		1	2	-	2	-	-	-	1-2	-	N
24.06.02	Gypsum perennial standing water		-	-	-	2	-	-	-	2	-	N
24.06.03	Saline inland intermittent pool		-	-	-	2	-	-	-	1-2	-	N
24.07	Anthropogenic standing waters		*	*	*	*	*	*	*	*	+	X
24.07.01	Non-natural water-filled peat pit (in current use)		*	*	*	*	*	*	*	*	-	X
24.07.02	Fish farm (intensive use)		*	*	*	*	*	*	*	*	+/-	X
24.07.03	Canals		*	*	*	*	*	*	-	*	+/-	X
24.07.04	Dug channels with very slowly flowing or standing water		3	3	3	3	3	3	3	3	-	X
24.07.05	Ornamental pond or fire-water pond		*	*	*	*	*	*	*	*	+/-	X
24.07.06	Settling or polishing pond		*	*	*	*	*	*	*	*	+/-	X
24.07.07	Industrial settling pond or contaminated dredging/liquid waste disposal facility		*	*	*	*	*	*	*	*	+/-	X

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24.07.08	Open retention and detention basins		*	*	*	*	*	*	*	*	+	X
24.07.09	Harbour basin		*	*	*	*	*	*	*	*	+/-	X
24.07.10	Storage lakes with large variations in water level		*	*	*	*	*	*	*	*	+/-	X
24.07.11	Water treatment facility (open seepage pond)		*	*	*	*	*	*	*	*	+/-	X
24.07.12	Mining waterbody (in service), including chemically severely contaminated abandoned mining waterbody		*	*	*	*	*	*	*	*	+/-	X
24.08	Intermittently exposed habitats below mean water level of standing waters		2-3	2-3	3	3	3	2-3	3	3	+/-	S
31.	CAVES (including mines, wells etc.)											
31.01	Natural caves and rock shelters		R	-	3	3	3	3	3	3	-	N
31.01.01	Rock shelters and cave entrances		R	-	3	3	3	3	3	3	-	N
31.01.02	Natural caves (without daylight influence)		2-3	-	3	3	3	3	3	3	+/-	N
31.02	Mine workings and shafts											X
32.	ROCKS, INLAND CLIFFS, SCREE SLOPES, BOULDER FIELDS AND OPEN AREAS WITH SANDY OR COHESIVE SUBSTRATES											
32.01	Natural and naturalised rocks		2-3	2-3	2-3	2-3	2-3	3	*	3	+/-	N
32.02	Solitary rock or boulder		2	2	3	3	3	3	*	3	+/-	N
32.03	Natural and naturalised boulder fields		-	2	2-3	3	3	3	*	2-3	+/-	K
32.04	Natural and naturalised scree		2	2	2-3	3	3	3	*	2-3	+/-	K
32.05	Clearance cairns and stone walls											
32.05.01	Clearance cairns		2	2	2-3	2-3	2-3	2	3	2-3	-	B
32.05.02	Drystone walls		2	2	2	2	2	2	3	2	-	B
32.05.03	Mortared stone walls (including walls of ruins)		*	*	*	*	*	*	*	*	+/-	B
32.06	Sand bank		2-3	2-3	2	2-3	2	2	-	2-3	-	B
32.07	Loam and loess banks		2	2	2	2-3	2	2	3	2-3	-	S
32.08	Sparsely vegetated area of gravel or rough gravel		2	2	2-3	2-3	1-2	1-2	3	2	-	B
32.09	Sparsely vegetated area of sand		2	3	2	2	2	2	-	2	-	B
32.10	Sparsely vegetated area with cohesive substrate		2-3	2-3	3	3	3	2-3	3	2-3	-	B
32.11	Mineral workings and spoil heaps		*	*	*	*	*	*	*	*	-	X
32.11.01	Recent spoil heaps, abandoned or still accumulating		*	*	*	*	*	*	*	*	-	X
32.11.02	Recent spoil heap, abandoned or still accumulating, with sandy/gravelly substrate		*	*	*	*	*	*	*	*	+/-	X
32.11.03	Recent spoil heap, abandoned or still accumulating, with cohesive substrate		*	*	*	*	*	*	*	*	+/-	X

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Code	Habitat type	Sea and Coastline	NW Lowlands	NE Lowlands	W Uplands	E Uplands	SW Uplands	Alpine Foothills	Alps	Germany	Trend	RE
32.11.04	Rock walls in active mineral workings (quarries) and recent abandoned quarries		*	*	*	*	*	*	*	*	+/-	X
32.11.05	Coarse spoil heap in mineral workings		*	*	*	*	*	*	*	*	+/-	X
32.11.06	Sand or gravel workings		*	*	*	*	*	*	*	*	+/-	X
32.11.07	Cohesive substrate workings		*	*	*	*	*	*	*	*	-	X
33.	ARABLE AND FALLOW LAND											
33.01	Farmed and fallow land on shallow skeletal calcareous soil											B
33.01.01	Extensively farmed land on shallow skeletal calcareous soil, with full segetal vegetation		1-2	1	1-2	1-2	1-2	1	1	1-2	-	B
33.01.02	Farmed land on shallow skeletal calcareous soil, with species-rich segetal vegetation		2	1	2	2	2	2	1	2	-	B
33.01.03	Intensively farmed land on shallow skeletal calcareous soil, with severely impoverished or no segetal vegetation		*	*	*	*	*	*	*	*	+	X
33.01.04	Fallow land on shallow skeletal calcareous soil		3	3	3	3	3	3	2	3	-	X
33.02	Farmed and fallow land on shallow skeletal siliceous residual soil											B
33.02.01	Extensively farmed land on shallow skeletal siliceous residual soil, with full segetal vegetation		1	1	1	1	1	-	-	1	-	B
33.02.02	Farmed land on shallow skeletal siliceous residual soil, with species-rich segetal vegetation		2	2	2	2	2	-	-	2	+/-	B
33.02.03	Intensively farmed land on shallow skeletal siliceous residual soil, with severely impoverished or no segetal vegetation		*	*	*	*	*	-	-	*	+/-	X
33.02.04	Fallow land on shallow skeletal siliceous residual soil		3	3	3	3	3	-	-	3	+/-	X
33.03	Farmed and fallow land on sandy soil											B
33.03.01	Extensively farmed land on sandy soil, with full segetal vegetation		1	1	1	1	1	1	-	1	-	B
33.03.02	Farmed land on sandy soil, with species-rich segetal vegetation		2	2	2	2	2	2	-	2	+/-	B
33.03.03	Intensively farmed land on sandy soil, with severely impoverished or no segetal vegetation		*	*	*	*	*	*	-	*	+	X
33.03.04	Fallow land on sandy soil		*	*	*	*	3	3	-	3	+/-	X
33.04	Farmed and fallow land on loess, loam or clay soil											B
33.04.01	Farmed land on loess, loam or clay soil, with full segetal vegetation		1-2	2	2	1-2	1-2	1	2	1-2	-	B
33.04.02	Farmed land on loess, loam or clay soil, with species-rich segetal vegetation		2-3	3	3	2-3	2-3	2-3	3	2-3	+	B
33.04.03	Intensively farmed land on loess, loam or clay soil, with severely impoverished or no segetal vegetation		*	*	*	*	*	*	*	*	+/-	X
33.04.04	Fallow land on loess, loam or clay soil		*	*	*	*	*	*	*	*	+/-	X

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Code	Habitat type	Sea and Coastline	NW Lowlands	NE Lowlands	W Uplands	E Uplands	SW Uplands	Alpine Foothills	Alps	Germany	Trend	RE
33.05	Farmed and fallow land on peaty or half-bog soil											
33.05.01	Extensively farmed land on peaty or half-bog soil, with full segetal vegetation		#	#	#	#	#	#	#	#	-	X
33.05.02	Farmed land on peaty or half-bog soil, with species-rich segetal vegetation		#	#	#	#	#	#	#	#	-	X
33.05.03	Intensively farmed land on peaty or half-bog soil, with severely impoverished or no segetal vegetation		*	*	*	*	*	*	*	*	+/-	X
33.05.04	Fallow land on peaty or half-bog soil		#	#	#	#	#	#	#	#	+/-	X
34.	NATURAL DRY GRASSLANDS AND GRASSLANDS OF DRY TO HUMID SITES											
34.01	Xeric grassland		-	1-2	2	2	1-2	1-2	2	1-2	-	N
34.01.01	Xeric grassland on carbonate substrate		-	1-2	2	2	2	1-2	2	1-2	-	N
34.01.02	Xeric grassland on silicate substrate		-	1-2	2	2	1	-	-	1-2	-	N
34.02	Semi-dry grassland		1-2	2	2	2	2	1-2	2	2	-	S
34.02.01	Semi-dry grassland on carbonate substrate		1-2	2	2	2	2	1-2	2	2	-	S
34.02.02	Semi-dry grassland on silicate substrate		1-2	2	1-2	2	2	2	-	2	-	S
34.03	Steppic grassland (subcontinental, on deep soil)		1	2	-	1-2	-	-	-	1-2	-	N
34.04	Dry sandy grassland		2	2	2	2	1	1-2	-	2	-	S
34.05	Heavy-metal grassland		2	2	2	2	2	-	-	2	-	N
34.06	Mat-grass swards		1	1	1-2	1-2	1-2	1	1-2	1-2	-	S
34.06.01	Mat-grass swards on dry to moist sites		1	1	1-2	1-2	1-2	1	2	1-2	-	S
34.06.02	Mat-grass swards on damp sites		1	1	1-2	1-2	1-2	1-2	1-2	1-2	-	S
34.07	Species-rich grassland on moist sites		1-2	1-2	2	2	2-3	1-2	2-3	2	-	S
34.07.01	Species-rich moist grassland of the planar to submontane zone		1-2	1-2	2	2	2-3	1-2	2-3	2	-	S
34.07.02	Species-rich moist grassland of the montane to high montane zone		-	-	2	2	2	1-2	2-3	2	-	S
34.08	Species-poor intensive grassland on moist sites		*	*	*	*	*	*	*	*	+	X
34.09	Trampled grass and park lawns		*	*	*	*	*	*	*	*	+	X
35.	FENS AND SWAMPS FREE OF WOODLAND, AND GRASSLANDS OF MOIST TO WET SITES (excluding reedbeds and large sedge swamps)											
35.01	Oligotrophic to mesotrophic fens and swamps free of woodland		1	1-2	1	1	1-2	1-2	2	1	-	K
35.01.01	Oligotrophic to mesotrophic lime-deficient fens		1	2	1-2	1-2	1-2	1-2	2	1-2	-	K
35.01.02	Oligotrophic to mesotrophic lime-rich fens		1	1	1	1	1-2	2	2	1-2	-	K

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35.02	Grassland on wet to (intermittently) damp sites											
35.02.01	Purple moorgrass meadows (on mineral and organic soils)		1	1	1	1	1	2	2	1	-	S
35.02.02	Cnidium dubium floodplain meadows		1	1-2	-	1	1	1	-	1	-	S
35.02.03	Extensively farmed damp and wet grassland of the planar to submontane zone, n.e.c.		2	2	2	2	2	2-3	2-3	2	-	S
35.02.04	Extensively farmed damp and wet grassland of the montane to high montane zone, n.e.c.		-	-	2-3	2-3	2-3	2-3	2-3	2-3	-	S
35.02.05	Flooded meadows		2-3	3	3	3	3	3	3	3	+/-	B
35.02.06	Species-poor intensively farmed damp grassland of the planar to submontane zone		*	*	*	*	*	*	-	*	+/-	X
35.02.07	Species-poor intensively farmed damp grassland of the montane to high montane zone		-	-	*	*	*	*	*	*	+/-	X
35.03	Inland salt grassland		1	1	1	1	1	-	-	1	?	K
36.	RAISED BOGS AND TRANSITION MIRES											
36.01	Raised bogs (largely intact)		1	1	1	1	1	2	2	1	-	N
36.02	Transition mires		1	2	1-2	1	1	2	2	1-2	-	N
36.03	Degeneration stages of raised bogs		3	3	3	3	3	3	3	3	+/-	X
36.03.01	Degeneration stages of raised bogs, dominated by grasses		3	3	3	3	3	3	3	3	-	X
36.03.02	Degeneration stage of raised bog, dominated by dwarf shrubs		2-3	2-3	3	3	3	3	3	3	-	X
36.03.03	Degeneration stage of raised bog with vigorous woody vegetation		*	*	*	*	*	*	*	*	+	X
36.03.04	Degeneration stage of raised bog, dominated by tall (perennial) herb vegetation and rushes		*	*	*	*	*	*	*	*	+/-	X
36.04	Peat workings		*	*	*	*	*	*	*	*	?	X
36.04.01	Manually harvested peat cutting		#	#	#	#	#	#	#	#	-	X
36.04.02	Mechanically harvested peat cuttings (milling method)		*	*	*	*	*	*	*	*	?	X
36.04.03	Spoil heap of discarded top peat		*	*	*	*	*	*	*	*	?	X
36.04.04	Peat stockpiles		*	*	*	*	*	*	*	*	?	X
36.05	Regenerating peat areas		*	*	*	*	*	*	*	*	+	X
37.	LARGE SEDGE SWAMPS											
37.01	Nutrient-poor large sedge swamps		2	2	2	2	2	2	3	2	-	S
37.02	Nutrient-rich large sedge swamps		2	3	2	2-3	2-3	3	3	3	?	S

Source: Riecken, U., Finck, P., Raths, U., Schröder, E. Ssymank, A. (2006): Rote Liste der gefährdeten Biotoptypen Deutschlands. Zweite fortgeschriebene Fassung 2006. - Natursch. Biol. Vielf. 34, 318 S.

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38.	REEDBEDS (excluding brackish water reedbeds)											
38.01	Club rush bed		2	3	2	2	2	2-3	3	2-3	-	S
38.02	Common reed beds		3	3	3	3	3	3	3	3	?	S
38.02.01	Common reed bed in water habitat		2	3	2	2	2	2	3	2-3	-	S
38.02.02	Common reed bed in land habitat		*	*	*	*	*	*	*	*	+	S
38.03	Bullrush bed		*	*	*	*	*	*	*	*	+/-	B
38.04	Great fen sedge bed		1	2	0	1	1	2-3	3	1-2	-	S
38.05	Reed sweet grass bed		*	*	*	*	*	*	-	*	+	B
38.06	Reed canary grass bed		*	*	*	*	*	*	*	*	+/-	B
38.07	Other reedbed		2	3	3	3	3	3	3	3	?	B
39.	RIPARIAN AND FOREST FRINGE COMMUNITIES, AND TALL (PERENNIAL) HERB VEGETATION											
39.01	Forest and woodland fringe vegetation (excluding riparian vegetation)		1-2	2-3	2-3	2-3	2-3	2	3	2-3	-	B
39.02	Clear-cutting and forest clearing vegetation (with predominantly herbaceous vegetation, planar to montane)		*	*	*	*	*	*	*	*	-	X
39.03	Herbaceous and grassy fringes and vegetation of the open landscape (excluding riparian fringes and fallow grassland)										-	B
39.03.01	Herbaceous and grassy fringes and vegetation of the open landscape on oligotrophic to eutrophic sites		1-2	2	2-3	2-3	2-3	2	3	2-3	-	B
39.03.02	Herbaceous and grassy fringes and vegetation of the open landscape on hypertrophic sites		*	*	*	*	*	*	*	*	+/-	B
39.04	Riparian herbaceous fringes or vegetation		3	3	3	3	3	2	3	3	-	B
39.05	Riparian neophytic herb vegetation		*	*	*	*	*	*	*	*	+	X
39.06	Ruderal sites		3	3	3	3	3	3	*	3	+/-	X
39.07	Species-poor facies of polycorms, free of woody plants		*	*	*	*	*	*	*	*	+	X
40.	DWARF-SHRUB HEATHS											
40.01	Rock ledge heath		-	-	3	3	2	2	3	3	-	S
40.02	Bog heaths and wet heaths		2	1-2	2	1-2	1-2	2	2	2	-	K
40.03	Heaths on sandy soil (Calluna heath)		2-3	2-3	2	2	1-2	1-2	-	2	-	S
40.04	Heath on loamy soil		1	1	1	1	1	1	-	1	-	S
40.05	Upland heaths		-	-	2	2-3	2-3	2	3	2-3	-	S

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41.	COPSES, THICKETS, SCRUB, HEDGES AND CULTIVATED WOODY PLANTS											
41.01	Scrub of predominantly autochthonous species											
41.01.01	Scrub on wet to damp mineral sites outside of floodplains		3	3	3	3	3	3	3	3	+/-	S
41.01.02	(Willow) scrub on floodplains		2	2	3	3	3	2	3	2-3	+	S
41.01.03	Scrub on wet to damp organic sites		2	2	2	2	2	2	3	2	+	S
41.01.04	Scrub on moist sites		3	3	3	3	3	3	*	3	+	S
41.01.05	Scrub on warm dry sites		2-3	2-3	3	3	3	2-3	3	3	+	S
41.01.06	Scrub on nitrogen-rich ruderal sites		*	*	*	*	*	*	*	*	+	X
41.02	Copses of predominantly autochthonous species		2-3	3	2-3	2-3	2-3	2-3	3	2-3	+/-	S
41.02.01	Copses on wet to damp sites		2	3	2-3	2-3	2-3	2-3	3	2-3	+/-	S
41.02.02	Copses on moist sites		3	3	3	3	3	2-3	*	3	+/-	S
41.02.03	Copses on warm dry sites		2-3	3	2-3	2-3	2-3	2-3	-	2-3	+/-	S
41.03	Hedges of predominantly autochthonous species		2	2-3	2-3	3	2-3	2-3	1	2-3	+/-	S
41.03.01	Raised hedgerows		2	2	-	-	-	-	-	2	+/-	S
41.03.02	Hedge on raised border of field clearance stones		-	2-3	-	2-3	2-3	-	-	2-3	-	S
41.03.03	Hedges on level field boundaries or embankments		2	2-3	2-3	3	2-3	2-3	1	2-3	+	S
41.04	Planted woody vegetation and hedges predominantly of non-autochthonous species		*	*	*	*	*	*	*	*	+/-	X
41.05	Single or several trees, avenues		2-3	3	3	3	2-3	2-3	3	2-3	-	S
41.06	Sparse orchard [habitat complex]		2	2-3	2	2	2-3	1-2	2	2	-	S
41.06.01	Sparse orchard on grassland		2	2-3	2	2	2-3	1-2	2	2	-	S
41.06.02	Sparse orchard on arable land		2	2-3	2	2	2	1-2	-	2	-	S
41.07	Tree and hop plantations		*	*	*	*	*	*	*	*	+	X
41.08	Vineyards and fallow vineyards											
41.08.01	Steep vineyards		-	2-3	2-3	2	3	-	-	2-3	-	S
41.08.02	Level to gently inclined vineyards		-	*	*	*	*	-	-	*	+	S
41.08.03	Steep fallow vineyard		-	3	3	3	3	-	-	3	-	S
41.08.04	Level to gently inclined fallow vineyards		-	*	*	*	*	-	-	*	+/-	X

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42.	WOODLAND MANTLES AND PIONEER STAGES OF WOODLANDS; SPECIAL FORMS OF WOODLAND USE											
42.01	Woodland mantle		2-3	2-3	3	3	3	3	3	3	-	S
42.02	Rubus thickets and pre-mantle communities		*	*	*	*	*	*	*	*	-	B
42.03	Pioneer woodland		*	*	*	*	*	*	*	*	+/-	B
42.03.01	Pioneer woodland on wet to damp site		*	*	*	*	*	*	*	*	+/-	B
42.03.02	Pioneer woodland on moist site		*	*	*	*	*	*	*	*	+/-	B
42.03.03	Pioneer woodland on warm dry site		*	*	*	*	*	*	*	*	+/-	B
42.04	Woodland pasture [habitat complex]		1-2	1	1-2	1	1-2	1-2	2	1-2	-	B
42.05	Coppice [habitat complex]		1	1	2	2	2	1	2	1-2	-	B
43.	DECIDUOUS AND MIXED WOODLANDS AND FOREST PLANTATIONS (deciduous share > 50 %)											
43.01	Birch bog woodland		1-2	2	2	2	2	2	1	2	-	K
43.02	Carr woodland		2	2	2	2	1-2	2	2	2	-	K
43.02.01	Birch and birch-alder carr woodland on nutrient-poor sites		2	2-3	2	2	2	2	2-3	2	-	K
43.02.02	Alder carr woodland on nutrient rich sites		2-3	3	2-3	2-3	2-3	2-3	3	2-3	-	K
43.03	Swamp forest (on minerogenic soil)		3	3	3	3	3	2	3	3	-	S
43.04	Alluvial forest		2	2	1-2	3	2	2	2-3	2	?	K
43.04.01	Riparian alluvial forests of alder and ash		2	2	3	3	3	2	3	2-3	?	K
43.04.02	Softwood alluvial forest		1-2	2	1-2	1-2	1-2	1-2	2-3	1-2	?	K
43.04.03	Hardwood alluvial forest		1	2	1	1	1-2	1-2	-	1-2	?	K
43.05	Tidal alluvial forest		1	-	-	-	-	-	-	1	+	K
43.06	Ravine, boulder-field and scree forests		2	3	3	2-3	3	3	3	3	+/-	K
43.07	Deciduous and mixed forest on damp to moist site		2	3	2	3	3	2	3	3	-	K
43.07.01	Ash or ash-sycamore (Acer pseudoplatanus) forest on damp site		-	-	2	2	2-3	2-3	3	2-3	-	K
43.07.02	Oak-hornbeam forest on waterlogged to moist site		2	2-3	2-3	2-3	2	1-2	-	2	-	K
43.07.03	Birch-oak forest on damp to moist site		2	3	1-2	2	1-2	-	-	2	-	K
43.07.04	Beech (mixed) forest on moist, base-deficient sites		2-3	2-3	2-3	2-3	2-3	2	3	2-3	+	K
43.07.05	Beech (mixed) forest on moist, base-rich sites		2-3	3	3	3	3	2	3	3	+/-	K
43.07.06	Montane beech-fir/spruce forest (> 50% beech)		-	-	1	2	2	2	2-3	2	+/-	K

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43.08	Deciduous (mixed) forest on dry or warm dry sites											
43.08.01	Dry oak-hornbeam forest		2	2-3	2-3	3	3	2	-	2-3	-	K
43.08.02	Sedge-beech forest (orchid beech forest)		2	2	2-3	3	3	2-3	2-3	2-3	+/-	K
43.08.03	Blue grass-beech forest		-	-	1	2	2	3	*	2	+/-	K
43.08.04	Beech scrub (on Baltic Sea dunes)		R	1	-	-	-	-	-	1	+/-	K
43.08.05	Dry oak forest		1	2	2	2	2	1-2	-	2	+	K
43.09	Deciduous (mixed) plantations with native tree species		*	*	*	*	*	*	*	*	+	X
43.10	Deciduous (mixed) plantations with introduced tree species (including subsynchronous colonisations)		*	*	*	*	*	*	*	*	+/-	X
44.	CONIFEROUS (MIXED) WOODLANDS AND FOREST PLANTATIONS											
44.01	Bog woodland (coniferous)											
44.01.01	Spruce bog woodland		-	-	2	2	2	3	3	2	-	N
44.01.02	Scots pine bog woodland		1	2	1	1-2	2	2-3	-	1-2	-	N
44.01.03	Bog pine bog forest		-	-	-	1	2	2-3	2	2	+/-	N
44.01.04	Dwarf mountain pine bog forest		-	-	-	1-2	2	2-3	2	2	+/-	N
44.02	Natural and near-natural dry to intermittently damp pine forest											
44.02.01	Dry rocky pine forests		-	2-3	3	2-3	2-3	3	3	2-3	+/-	K
44.02.02	Limestone pine forest on gravel bank or alluvial cone		-	-	-	-	-	2	3	2-3	+/-	K
44.02.03	Dry sandy pine forest		1-2	2	-	2	1-2	1	-	1-2	+/-	K
44.02.04	(Intermittently) damp pine or birch-pine forest, n.e.c. (e.g. on marl)		-	3	-	3	1	1	-	2	+/-	K
44.03	Spruce/fir (mixed) forest and spruce (mixed) forest											
44.03.01	Montane spruce boulder-field forest		-	2	2	2	3	2-3	2	2	+/-	K
44.03.02	Montane spruce boulder-field forest		-	-	2	2	2	-	3	2	+/-	K
44.03.02	Montane to high montane spruce forest		-	-	2	2	2	2	2	2	+/-	K
44.03.03	Montane fir-spruce forest		-	-	-	2	2	2	2-3	2	+/-	K
44.03.04	Montane fir-(spruce)-beech forest (> 50% coniferous)		-	-	1	2	2	2	2-3	2	+/-	K
44.03.05	Montane fir forest		-	-	-	1	2	2	2-3	2	+/-	K
44.03.06	Autochthonous spruce-fir forest of the planar to colline zone		-	1	-	-	-	-	-	1	+/-	K
44.04	Coniferous (mixed) plantations with native tree species		*	*	*	*	*	*	*	*	+/-	X
44.04.01	Spruce plantations		*	*	*	*	*	*	*	*	+/-	X
44.04.02	Fir-spruce plantations		*	*	*	*	*	*	*	*	+/-	X
44.04.03	Pine plantation		*	*	*	*	*	*	*	*	+/-	X
44.04.04	Larch plantation		*	*	*	*	*	*	*	*	+/-	X

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44.05	Coniferous (mixed) plantations with introduced tree species (including subspontaneous colonisations)		*	*	*	*	*	*	*	*	+/-	X
51.	SMALL UNPAVED AREAS IN HUMAN SETTLEMENTS											
51.01	Small unpaved area free of vegetation		*	*	*	*	*	*	*	*	+/-	X
51.02	Small unpaved area with spontaneous vegetation		*	*	*	*	*	*	*	*		X
51.03	Plantings and beds		*	*	*	*	*	*	*	*	+	X
52.	TRANSPORT INFRASTRUCTURE AND TOWN SQUARES											
52.01	Roads		*	*	*	*	*	*	*	*	+	X
52.02	Cycle paths and footpaths		*	*	*	*	*	*	*	*	+	X
52.02.06	Unpaved path		3	3	3	3	3	3	3	3	-	B
52.02.07	Sunken path [habitat complex]		1	2	2	2	2	2	2	2	-	B
52.03	Surfaced areas other than roads and paths		*	*	*	*	*	*	*	*	+	X
52.04	Sundry transport infrastructure		*	*	*	*	*	*	*	*	+	X
52.04.01	Rail track		*	*	*	*	*	*	*	*	+	X
52.04.02	Harbour facility or quay		*	*	*	*	*	*	*	*	+	X
52.04.03	Transport infrastructure, n.e.c.		*	*	*	*	*	*	*	*	+/-	X
53.	BUILDINGS AND SIMILAR STRUCTURES											
53.01	Buildings		*	*	*	*	*	*	*	*	+	X
53.02	Walls		*	*	*	*	*	*	*	*	?	X
54.	LANDFILL SITES AND WASTEWATER WETLANDS											
54.01	Landfill sites for solid waste		*	*	*	*	*	*	*	*	+/-	X
54.02	Liquid-waste disposal facilities		*	*	*	*	*	*	*	*	+/-	X
54.03	Sewage farm		*	*	*	*	*	*	*	*	+/-	X
54.04	Sewer		*	*	*	*	*	*	*	*	+/-	X
60.	WATERS OF THE SUBALPINE TO ALPINE ZONES											
60.01	Springs of the subalpine to alpine zone						*		*	*	+/-	K
60.01.01	Seepage or marshy spring of the subalpine to alpine zone (helocrene)						*		*	*	+/-	K
60.01.02	Pooling spring of the subalpine to alpine zone (limnocrene)								*	*	+/-	K
60.01.03	Flowing spring of the subalpine to alpine zone (rheocrene)						*		*	*	+/-	K

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60.02	Running waters of the subalpine to alpine zone								3	3	+/-	K
60.02.01	Glacier stream								R	R	+/-	K
60.02.02	Headwater (rhithral) of the subalpine to alpine zone								3	3	+/-	K
60.03	Standing waters of the subalpine to alpine zone						3		3	3	-	K
60.03.01	Lake of the subalpine to alpine zone				-	-	-	-	3	3	+/-	K
60.03.02	Natural pond of the subalpine to alpine zone				-	-	-	-	3	3	+/-	K
60.03.03	Intermittent pool of the subalpine to alpine zone				-	-	3	-	3	3	-	K
61.	FIRN, PERMANENT SNOW FIELDS AND GLACIERS											
61.01	Firn or permanent snow field								3	3	-	N
61.02	Glacier								2	2	-	N
62.	OPEN ROCK OF THE SUBALPINE TO NIVAL ZONES											
62.01	Rock faces of the subalpine to nival zone								*	*	+/-	S
62.02	Solitary rocks of the subalpine to nival zone								*	*	+/-	S
63.	SCREE SLOPES AND GRAVEL BANKS OF THE SUBALPINE TO ALPINE ZONES											
63.01	Gravel area associated with waterbody of the subalpine to alpine zone								3	3	+/-	B
63.02	Limestone scree of the subalpine to alpine zone								*	*	+/-	S
63.03	Marl scree of the subalpine to alpine zone								R	R	+/-	S
63.04	Silicate scree of the subalpine to alpine zone						R		R	R	+/-	S
64.	SNOW ACCUMULATION AREAS AND SNOWFIELD COMMUNITIES											
64.01	Limestone snow accumulation area								3	3	+/-	K
64.02	Alluvial soil of the subalpine to alpine zone								3	3	+/-	K
64.03	Silicate snow accumulation area								3	3	+/-	K
65.	PEATLANDS OF THE SUBALPINE TO ALPINE ZONES											
65.01	Raised bog or transition mire of the subalpine to alpine zone						2		3	3	+/-	N
65.02	Flat bog of the subalpine to alpine zone						2		3	3	+/-	N
66.	MONTANE SWARDS OF THE SUBALPINE TO ALPINE ZONES											
66.01	Bellardi bog sedge sward								3	3	+/-	K
66.02	Glaucous sedge sward								3	3	+/-	S
66.03	Mat-grass sward of the subalpine to alpine zone								2	2	-	S
66.04	Blue grass bank or sward								*	*	+/-	S

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66.05	Rusty sedge sward								*	*	+/-	S
66.06	Rich Alpine pasture								*	*	+/-	X
66.07	Yellow oat-grass meadow of the calcareous Alps								2	2	-	S
66.08	Subalpine treaded grass						*		*	*	+/-	X
66.09	Curved sedge sward								R	R	+/-	S
67.	TALL HERBACEOUS COMMUNITIES OF THE HIGH MONTANE TO ALPINE ZONES INCLUDING THE VEGETATION OF LIVESTOCK RESTING PLACES											
67.01	Tall herbaceous and tall grass communities of the high montane to alpine zone				3	3	3	3	*	3	+/-	B
67.02	Lägerflur communities (communities of livestock resting places) of the subalpine to alpine zone						R		*	*	+/-	X
68.	DWARF-SHRUB HEATHS OF THE SUBALPINE TO ALPINE ZONES											
68.01	Wind-exposed alpine heath (e.g. with alpine azalea)								3	3	-	K
68.02	Black crowberry and Northern bilberry heath and dwarf juniper shrubs								1	1	-	S
69.	SCRUB COMMUNITIES OF THE SUBALPINE TO ALPINE ZONES											
69.01	Willow scrub on flood plains of the high montane to subalpine zone								2	2	+/-	S
69.02	Green alder scrub						R		*	*	+/-	S
69.03	Balkan willow scrub					R	R		*	*	+/-	S
69.04	Dwarf mountain pine scrub					3			3	3	+/-	S
69.05	Rhododendron scrub								3	3	+/-	S
69.06	Spruce-mountain ash scrub					*	*		R	*	+/-	S
69.07	Waldstein willow scrub								*	*	+/-	S
70.	SUBALPINE WOODLANDS											
70.01	Subalpine (high montane) sycamore (<i>Acer pseudoplatanus</i>)-beech woodland					2	2		3	3	+/-	K
70.02	Subalpine spruce woodland								3	3	+/-	K
70.03	Subalpine larch-Swiss stone pine woodland								3	3	+/-	K
70.04	Subalpine larch woodland								3	3	+/-	K