

# Appendix 1 to PRIORITISED ACTION FRAMEWORK (PAF) FOR NATURA 2000 in SLOVENIA

## 1. List of species dependent on grassland habitats (E.2.4) for which Agri-environmental measures Sub-measure 10.1 - Payment of agri-environment-climate commitments in the period 2014-2020 were identified depending on the type of measure

### Special grassland habitats (HAB):

Plants: Marsh gladiolus (*Gladiolus palustris*), Adriatic lizard orchid (*Himantoglossum adriaticum*), *Liparis loeselii*, *Pulsatilla grandis*, *Scilla litardierei*, *Serratula lycopifolia*,

Butterflies: Marsh Fritillary (*Euphydryas aurinia*), Large Copper (*Lycaena dispar*), False Ringlet (*Coenonympha oedippus*), Scarce Fritillary (*Euphydryas maturna*)

Birds: Sedge Warbler (*Acrocephalus schoenobaenus*), Lesser Grey Shrike (*Lanius minor*), Spotted Crake (*Porzana porzana*), Wood Lark (*Lullula arborea*), Common Grasshopper-warbler (*Locustella naevia*), Common Snipe (*Gallinago gallinago*), Little Crake (*Zapornia parva*), European Nightjar (*Caprimulgus europaeus*), Eurasian Skylark (*Alauda arvensis*), Common Quail (*Coturnix coturnix*), Northern Lapwing (*Vanellus vanellus*), Common Redshank (*Tringa tetanus*), Red-backed Shrike (*Lanius collurio*), Rufous-tailed Rock-thrush (*Monticola saxatilis*), Common Hoopoe (*Upupa epops*), European Honey-buzzard (*Pernis apivorus*), Eurasian Eagle-owl (*Bubo bubo*), Eurasian Scops-owl (*Otus scops*), Corn Bunting (*Miliaria calandra*), Eurasian Curlew (*Numenius arquata*), Eurasian Wryneck (*Jynx torquilla*), Common Kingfisher (*Alcedo atthis*), Ortolan Bunting (*Emberiza hortulana*)

Molluscs: *Congeria kusceri*, Thick Shelled River Mussel (*Unio crassus*), Narrow-mouthed Whorl Snail (*Vertigo angustior*)

Reptiles: Four-lined snake (*Elaphe quatuorlineata*)

Amphibians: Proteus (*Proteus anguinus*), Fire-bellied toad (*Bombina bombina*), Yellow-bellied toad (*Bombina variegata*), Italian agile frog (*Rana latastei*), Italian crested newt (*Triturus carnifex*), Danube newt (*Triturus dobrogicus*)

Dragonflies: *Coenagrion ornatum*, *Cordulegaster heros*, Large white-faced darter (*Leucorrhinia pectoralis*), *Ophiogomphus Cecilia*

Crustaceans: Stone Crayfish (*Austropotamobius torrentium*), White-clawed Crayfish (*Austropotamobius pallipes*)

Fishes: Italian Bleak (*Alburnus albidus*), Danube Barbel (*Barbus balcanicus*), European bullhead (*Cottus gobio*)

### Grassland habitats of butterflies (MET):

Butterflies: Dusky Large Blue (*Maculinea nausithous*), Scarce Large Blue (*Maculinea teleius*)

### Habitats of birds of humid extensive meadows (VTR):

Birds: Corncrake (*Crex crex*), Spotted Crake (*Porzana porzana*), Little Crake (*Zapornia parva*), Whinchat (*Saxicola rubetra*)

### Litter meadows (STE)

Butterflies: False Ringlet (*Coenonympha oedippus*)

Dragonflies: Ornate Bluethroat (*Coenagrion ornatum*)

## **2. List of species dependent on woodlands and forest habitats (E.2.6.) for which forestry measures were identified depending on the type of measure**

### **Conservation of biotopes - natural development, felling, tending:**

Birds: Three-toed Woodpecker (*Picoides tridactylus*), White-backed Woodpecker (*Dendrocopos leucotos*), Middle Spotted Woodpecker (*Leiopicus medius*), Red-breasted Flycatcher (*Ficedula parva*), Western capercaillie (*Tetrao urogallus*), Hazel Grouse (*Bonasia bonasia*)

Beetles: *Cucujus cinnaberinus*, *Rhysodes sulcatus*, *Carabus (variolosus) nodulosus*

Plants: *Liparis loeselii*, *Asplenium adulterinum*, *Eleocharis carniolica*, *Cypripedium calceolus*, Yellow Azalea (*Rhododendron luteum*)

### **Planned release of biomass in the forest**

Birds: White-backed Woodpecker (*Dendrocopos leucotos*), Three-toed Woodpecker (*Picoides tridactylus*), Middle Spotted Woodpecker (*Leiopicus medius*), Collared Flycatcher (*Ficedula albicollis*), Black Woodpecker (*Dryocopus martius*), Grey-faced Woodpecker (*Picus canus*), Boreal Owl (*Aegolius funereus*), Eurasian Pygmy-owl (*Glaucidium passerinum*), Ural Owl (*Strix uralensis*), Black Stork (*Ciconia nigra*), Short-toed Snake-eagle (*Circaetus gallicus*), Lesser Spotted Eagle (*Clanga pomarina*), Western capercaillie (*Tetrao urogallus*), White-tailed Sea-eagle (*Haliaeetus albicilla*)

Bats: Barbastelle Bat (*Barbastella barbastellus*), Bechstein's bat (*Myotis bechsteinii*)

Beetles: *Cucujus cinnaberinus*, *Rhysodes sulcatus*, Great Capricorn Beetle (*Cerambyx cerdo*), *Osmoderma eremita*, Alpine Longhorn Beetle (*Rosalia alpina*), *Morimus funereus*

### **Planting of seedlings of fruit-bearing tree species**

Birds: Western capercaillie (*Tetrao urogallus*), Hazel Grouse (*Bonasia bonasia*)

### **Road barriers (private forests)/ Gates on forest roads (state forests)**

Birds: Western capercaillie (*Tetrao urogallus*), White-tailed Sea-eagle (*Haliaeetus albicilla*), Black Stork (*Ciconia nigra*), Short-toed Snake-eagle (*Circaetus gallicus*), Lesser Spotted Eagle (*Clanga pomarina*), European Honey-buzzard (*Pernis apivorus*), Golden Eagle (*Aquila chrysaetos*)

### **Land purchase of forest land**

Birds: White-backed Woodpecker (*Dendrocopos leucotos*), Three-toed Woodpecker (*Picoides tridactylus*), Middle Spotted Woodpecker (*Leiopicus medius*), Red-breasted Flycatcher (*Ficedula parva*), Western capercaillie (*Tetrao urogallus*)

Beetles: *Cucujus cinnaberinus*, *Rhysodes sulcatus*, *Carabus (variolosus) nodulosus*

### **Mulching the slopes of forest roads (all forests)**

Birds: Western capercaillie (*Tetrao urogallus*), Hazel Grouse (*Bonasia bonasia*)

### **Tree girdling (all forests)**

Birds: White-backed Woodpecker (*Dendrocopos leucotos*)

Beetles: *Cucujus cinnaberinus*, *Rhysodes sulcatus*, *Carabus (variolosus) nodulosus*, Great Capricorn Beetle (*Cerambyx cerdo*), *Osmoderma eremita*, Alpine Longhorn Beetle (*Rosalia alpina*), *Morimus funereus*

### **Maintenance of shrubs (all forests)**

Birds: Hazel Grouse (*Bonasia bonasia*)

Butterflies: Scarce fritillary (*Euphydryas maturna*), Fenton's wood white (*Leptidea morsei*),

**Construction and maintenance of larger water bodies in the forest (all forests)**

Bats: Barbastelle Bat (*Barbastella barbastellus*), the greater mouse-eared bat (*Myotis myotis*)

Birds: Black Stork (*Ciconia nigra*),

Amphibians: Yellow-bellied toad (*Bombina variegata*), Italian agile frog (*Rana latastei*), Italian crested newt (*Triturus carnifex*), Fire-bellied toad (*Bombina bombina*), Danube newt (*Triturus dobrogicus*)

**Preparation of stand for natural restoration (all forests)**

Forest habitat types

### **3. List of species dependent on Freshwater habitats (E.2.8.) for which measures were identified depending on the type of measure**

#### **Creation of fish passes in freshwater habitats (eg. Bača, Krka, Ljubljana, Sora Škofja Loka - jez Goričane, Ljubljana - Gradaščica - Mali Graben, Poljanska Sora Log - Škofja Loka)**

Fish: Sculpin (*Cottus gobio*), Marble Trout (*Salmo marmoratus*), Danube Barbel (*Barbus balcanicus*), Asp (*Aspius aspius*), Kessler's Gudgeon (*Gobio kessleri*), Spined Loach (*Cobitis taenia*), European Bitterling (*Rhodeus sericeus amarus*), Danube Roach (*Rutilus pigus*), Huchen (*Hucho hucho*), Streber (*Zingel streber*), Balkan Loach (*Cobitis elongata*), Goldside Loach (*Sabanejewia aurata*), Brook Lamprey (*Eudontomyzon* spp.), Soufie (*Leuciscus souffia*), Weatherfish (*Misgurnus fossilis*), Danubian Gudgeon (*Gobio uranoscopus*)

Crustaceans: Stone Crayfish (*Austropotamobius torrentium*)

Reptiles: European Pond Terrapin (*Emys orbicularis*)

Mammals: European beaver (*Castor fiber*), Otter (*Lutra lutra*)

Molluscs: Thick Shelled River Mussel (*Unio crassus*)

Dragonflies: *Ophiogomphus Cecilia*

#### **Renaturation of streams (eg. Mirna, Drava, Mura, Sotla, Voglajna) – opening, renaturation of oxbows and riverbanks, creation of suitable habitats**

Fish: Danube Barbel (*Barbus balcanicus*), Cactus Roach (*Rutilus virgo*), Danubian Gudgeon (*Gobio uranoscopus*), Asp (*Aspius aspius*), European Bitterling (*Rhodeus sericeus amarus*), Spined Loach (*Cobitis taenia*), Streber (*Zingel streber*), Sculpin (*Cottus gobio*), Balkan Loach (*Cobitis elongata*), White-finned Gudgeon (*Gobio albipinnatus*), Kessler's Gudgeon (*Gobio kessleri*), Goldside Loach (*Sabanejewia aurata*), Huchen (*Hucho hucho*)

Molluscs: Thick Shelled River Mussel (*Unio crassus*)

Dragonflies: *Coenagrion ornatum*, Large white-faced darter (*Leucorrhinia pectoralis*), *Ophiogomphus Cecilia*

Birds: Little Grebe (*Tachybaptus ruficollis*), Mallard (*Anas platyrhynchos*), Black-headed Gull (*Larus ridibundus*), Grey Heron (*Ardea cinerea*), Great Cormorant (*Phalacrocorax carbo*), Eurasian Coot (*Fulica atra*), Tufted Duck (*Aythya fuligula*), Common Pochard (*Aythya ferina*), Mute Swan (*Cygnus olor*), Common Goldeneye (*Bucephala clangula*), Savi's Warbler (*Locustella luscinioides*), Little Crake (*Porzana parva*), Western Water Rail (*Rallus aquaticus*), Common Little Bittern (*Ixobrychus minutus*), Great Reed-warbler (*Acrocephalus arundinaceus*), Sedge Warbler (*Acrocephalus schoenobaenu*), Black Stork (*Ciconia nigra*), Eurasian Penduline-tit (*Remiz pendulinu*), Great White Egret (*Casmerodius albus*), Willow Warbler (*Phylloscopus trochilus*), European Honey-buzzard (*Pernis apivorus*), Middle Spotted Woodpecker (*Dendrocopos medius*), Collared Flycatcher (*Ficedula albicollis*), Black Woodpecker (*Dryocopus martius*), Grey-faced Woodpecker (*Picus canus*), White-tailed Sea-eagle (*Haliaeetus albicilla*), Common Kingfisher (*Alcedo atthis*)

Amphibians: Fire-bellied toad (*Bombina bombina*), Yellow-bellied toad (*Bombina variegata*), Italian crested newt (*Triturus carnifex*), Danube crested newt (*Triturus dobrogicus*)

Mammals: European beaver (*Castor fiber*), Otter (*Lutra lutra*)

Reptiles: European Pond Terrapin (*Emys orbicularis*)

Molluscs: Little Whirlpool Ramshorn Snail (*Anisus vorticulus*), Thick Shelled River Mussel (*Unio crassus*)

Butterflies: Jersey Tiger (*Callimorpha quadripunctaria*)

Beetles: Water Beetle (*Graphoderus bilineatus*), Stag Beetle (*Lucanus cervus*), *Cucujus cinnaberius*, *Carabus variolosus*, Great Capricorn Beetle (*Cerambyx cerdo*)

**Reinforcement Increase of native fish populations by supportive breeding**

Fish: Huchen (*Hucho hucho*), Marble Trout (*Salmo marmoratus*), South European Nase (*Protochondrostoma genei*), Grayling (*Thymallus thymallus*)

**Effect of water abstractions on habitat of Italian barbel (*Barbus plebejus*) in Natura 2000 area Slovenska Istra & asp (*Leuciscus asp*) in Krka s pritoki and guidelines for the management of the area**

Fish: Italian barbell (*Barbus plebejus*), asp (*Leuciscus asp*)

**Creation of habitat connectivity with fish passes in freshwater habitats for European eel (*Aguilla Anguilla*)**

Fish: European eel (*Aguilla Anguilla*)

**Restoration of habitats and preparation of management plans in selected Natura 2000 sites (e.g. HT 3130 and 3150: Rački ribniki – Požeg & Črete (management and restoration); Podvinci (management), Velovlek (management & restoration))**

Plants: *Eleocharis carniolica*, *Marsilea quadrifolia*

Beetles: *Graphoderus bilineatus*,

Dragonflies *Leucorrhinia pectoralis*,

Birds: *Acrocephalus arundinaceus*, *Anas querquedula*, *Aythya ferina*, *Aythya fuligula*, *Aythya nyroca*, *Egretta alba*, *Haliaeetus albicilla*, *Ixobrychus minutus*, *Larus ridibundus*, *Pandion haliaetus*, *Porzana parva*, *Porzana porzana*.

HT: Natural eutrophic lakes with Magnopotamion or Hydrocharition type vegetation (3150); Oligotrophic to mesotrophic standing waters with vegetation of the Littorelletea uniflorae and/or of the Isoeto-Nanojuncetea (3130)