

Council of Europe

Conseil de l'Europe



504
55

Strasbourg, 13 January 1994

PE-S-ZP (94) 48
(addendum)

STEERING COMMITTEE FOR THE CONSERVATION AND MANAGEMENT
OF THE ENVIRONMENT AND NATURAL HABITATS

Group of Specialists - "Protected areas"
(PE-S-ZP)

23 - 25 March 1994

Szénás Hills
(Buda Protected Landscape Area)

Application for the European Diploma

Additional Information

presented by:

the Hungarian Government

OTVH Budapesti
Természetvédelmi Igazgatósága
National Authority for
Nature Conservation
Directory of District
BUDAPEST

Additional information to the application for
the European Diploma of Szénás Hills

1. The list of species drawn up on the basis of the research work carried out in the eighties can be found in Appendix 1. and 2. /We marked species which are protected or strictly protected in Hungary/.
2. The detailed datas of the protected buffer zone

Community	Area /ha/	Branch of cultivation	Owner
Nagykovácsi	54	fruit field /pear/	Rozmaring Agricultural Cooperative
Pilisszent-	6	arable land	"
iván	58	forest	"
	24	arable land	"
	12	"	private
	9	water-worn /forest, grassland, stream, road/	local community
Total:	163 ha		

The privatization of agricultural cooperatives means, that one part of the areas will be owned and cultivated by the members of the cooperative, the second part of the areas will be assigned for compensation /one can buy it through bidding procedure/. The third part /the rest/ of the areas will be cultivated by the cooperative until it exists.

Uptill now only 12 ha from the planned buffer zone are owned by the members. All of the owners have to observe the rules of the law decree on the nature protection Nr. 4/1982.

3. Information and educational activities

- a./ There are 4 educational films for the general public
- b./ Universities are regularly organizing field-study-tours for students of the biology and teacher faculties.

- c./ On request of schools and local organisations experts deliver lectures with slides, or guide tours on the spots explaining their high values.
- d./ Educational articles are published in the local newspapers.
- e./ The local scout team /100 members/ regularly organizes educational trips, once a year they camp for better knowing the nature.
- f./ They do many kinds of voluntary work for nature protection.

4. The budget

- a./ 1980-1991 experimental cutting and thinning of the black pine plantations in the dolomit rock and grassherb communities in many spots /the total area is 7 ha/
cost: 450.000,- Ft
- b./ The most valuable biotops was fenced in 1990-1991 /150 ha/
cost: 6.000.000,- Ft
- c./ In 1992 the reparation cost of the fence was 200.000,- Ft
The total cost: 6.650.000,- Ft

5. The staff

An independent guard in the area does not exist.
The Pilis State Park Forest has 1,5 person for managing the forest and game.

Budapest Nature Conservation Directorate has 1 person guard for 10.000 ha in the Landscape Protection Area of Buda-hills.

Appendix 1.

ANIMALS

INVERTEBRATES

Lepidoptera

Rhopalocera
Iphiclides podalirius +
Papilio machaon +
Parnassius mnemosyne +
Gonepteryx rhamni
Pieris brassicae
P. rapae
P. napi
Colias hyale
C. australis
C. crocea
Anthocharis cardamines
Pontia daplidice
Quercusia quercus
Strymon spini
S. ilicis
S. acaciaea
Thersamonia thersamon
Loweia tityrus
L. alciphron
Scolitantides orion
Philotes vicrama
Polyommatus icarus
Plebeius argus
Everes argiades
Glaucoopsyche alexis
Cyaniris semiargus
Maculinea alcon
Lysandra coridon
Meleageria daphnis
Issoria lathonia
Clossiana dia
Mesoacidalia aglaja
Fabriciana niobe
F. adippe
Argynnис paphia
Brenthis hecate
Melitaea didyma
M. trivia
M. cinxia
M. phoebe
Mellicta athalia
M. aurelia
M. diamina
Araschnia levana

Aglais urticae
Inachis io +
Vanessa atalanta +
Nymphalis polychloros
Comma c-album
Hamearis lucina
Coenonympha pamphilus
C. iphis
C. arcania
Maniola jurtina
Aphantopus hyperanthus
Hyponephele lycaon
Brintesia circe
Chazara briseis
Lasiommata megera
L. maera
Pararge aegeria
Melanargia galathea
Carterocephalus palaemon
Carcharodus alceae
Erynnis tages
Thymelicus lineola
T. silvestris
Pyrgus malvae
P. alveus
P. fritillarius
Spialia orbifer
Ochlodes venatum

Drepanidae
Drepana binaria
D. falcataria
D. cultraria
Cilix glaucatus
Sabra harpagula

Thyatiridae
Polyploca ridens
P. ruficollis
P. difuda
Tethea or
Habrosyne pyritoides
Thyatira batis

Geometridae
Chlorissa cloraria
C. pulmentaria
*C. viridata**Pseudoterpnna pruinata*
Cyclophora porata
C. punctaria
C. annulata
Sterrhia sericeata
S. trigeminata
S. muricata
S. aureolaria

S. rufaria
S. humiliata
S. pallidata
Scopula incanata
S. marginepunctata
S. ornata
S. decorata
S. virgulata
S. nigropunctata
Timandra griseata
Rhodostrophia vibicaria
Aplocera plagiata
A. efformata
Lobophora halterata
Scotopteryx coarctaria
S. bipunctaria
S. moeniata
S. chenopodiata
Anticlea badiata
Philerema transversata
P. vetulata
Catarhoe cuculata
Mesotype virgata
Euphyia frustata
Epirrhoe alternata
E. tristata
Hydrelia flammeolaria
Asthena albulata
Eupithecia innotata
E. euphrasiata
E. graphata
E. icterata
E. pimpinellata
E. castigata
E. millefoliata
E. linariata
Gymnoscelis pumilata
Pseudopanthera macularia
Ligdia adustata
Tephrina murinaria
T. arenacea
Chiasmia clathrata
C. glarearia
Cleora cinctaria
Ascotis selenaria
Boarmia punctinalis
B. viertlii
B. danieli
Ectropis bistortata
Fagivorina arenaria
Biston stratarius
Apocheima hispidaria
Erannis defoliaria
Agriopsis leucophaearia
A. marginaria

A. bajaria
Siona lineata
Aspitates gilvaria
Dyscia conspersaria
Hemistola chrysoprasaria
Thalera fimbrialis
Jodis lactearia
Cyclophora linearia
C. quercimontaria
Idaea /Sterrha/ subserioeata
I. deversaria
I. aversata
I. degeneraria
I. politata
I. bisolata
I. cohrita
I. dilutaria
I. rusticata
I. Nitidata
I. emarginata
I. moniliata
I. obsoletaria
I. filioata
Soopula immorata
Epirrita dilutata
Cidaria fulvata
Thera obeliscata Eulithis pyraliata
Melanthia prooellata
Mesoleuoa albicillata
Ecliuptoptera silaceaata
E. capitata
Lampropteryz suffumata
Cosmorhoe ocellata
Cataohlysme riguata
Camptogramma bilineata
Xanthorrhoe fluctuata
X. ferrugata
X. spadicearia
X. biriviata
Pareulype berberata
Eprrhoe galiata
E. rivata
Perizoma alchemillata
P. bifasciata
P. flavofasciata
Hydriomena impluviata
Eupithecia assimilata
E. centaureata
E. gueneata
E. distinctaria
E. absinthiata
E. veratraria
E. silenioolata
E. venosata
E. oatharinae

E. virgaureata
E. subnotata
E. sobrinata
E. innotata
E. tripunctaria
E. plumbeolata
Horisme cortioata
H. tersata
H. vitalbata
Bapta bimaculata
Semothisa alternaria
S. liturata
Campaea margaritata
Apeira syringaria
Selenia dentaria
S. lunularia
S. tetralunaria
Ennomos queroaria
E. erosaria
E. fuscantaria
E. autumnaria
Angerona prunaria
Synopsia sociaria
Alcis repandata
Peribatodes gemmaria
Calospilos sylvata
Ematurga atomaria
Bupalus piniarius
Gnophos furvatus
G. pullatus +
G. obscuratus
Selidosema brunnearia

Lymantriidae

Elkneria pudibunda
Dicallomera fascelina
Orgya antiqua
Lymantria dispar
Ocneria rubea

Notodontidae

Stauropus fagi
Phalera bucephaloides
Tritophia tritophus
Notodonta dromedarius
Ptilodon capucina
Ptilodon oucella
Euchila palpina

Dilobidae

Diloba caeruleocephala

Lybitheidae

Lybithea celtis

Lasiocampidae

Malacosoma neustrium
M. castrensis
Macrothylacia rubi
Dendrolimus pini
Gastropacha quercifolia
Phyllodesma tremulifolia
Odonestis pruni
Lasiocampa trifolii

Lemoniidae

Lemonia dumii

Notodontidae

Phalera bucephala
Spatialia argentina
Pheosia tremula
Drymonia querna
D. trimacula dodonea
D. ruficornis
Notodonta ziczac
N. phoebe
Closteria curtula
C. pigra

Sphingidae

Sphinx ligustri
Hyloicus pinastri
Agrias convulvuli
Laothoe populi
Smerinthus ocellatus
Mimas tiliae
Hemaris tityus
Macroglossum stellatarum
Hyles euphorbiae
Hyles livornica
Deilephila elpenor
D. porcellus

Arctiidae

Pragmatobia fuliginosa
P. caesarea
Ocnogyna parasita
Rhyparia purpurata
Hyphoraia aulica
Arctia caja
A. villica
Miltochrista miniata
Euplagis quadripunctaria

Nolidae

Meganola strigula
M. kolbi
Nola aerugula
N. cicatricalis

Lithosiidae

Eilema complana
E. pseudocomplana
E. lurideola
E. lutarella
E. pallifrons

Ctenuchidae

Dysauxes ancilla

Noctuidae

Euxoa tritici eruta
E. aquilina
E. temera
E. nigrioans
Agrotis segetum
A. epsilon
A. clavis
A. exclamationis
A. vestigialis
Ochropleura plecta
O. candelisequa
D. signifera
Chersotis multangula
R. simulans
Spaelotis raviga
Opigena polygona
Eugnorisma depunota
Axylia putris
Noctua janthina
N. pronuba
N. orbona
N. fimbriata
Xestia triangulum
X. c-nigrum
X. rhomboidea
X. baja
X. xanthographa
Cerastis leucographa
C. rubricosa
Actinotia polyodon
Mamestra persicariae
M. aliena
M. w-latinum
M. splendens
M. dysodea
Sideridis anaphelles
Discestra trifolii
 olia bombycina
Heliophobus reticulata
Hadena irregularis
H. perplexa
Egira conspicillaris
Panolis flammea

Mythimna ferrago
M. pudorina
M. turoa
M. straminea
Cuoullia fraudatrix
C. xeranthemi
C. campanulae
Polymixis xanthomista
Dryobotodes eremita
D. monochroma
Dichenia Convergens
Allophyes oxyacanthalae
Agrochola helvola
A. lychnidis
Parastiohtis suspecta
Acronicta tridens
A. megacephala
Cryphia ereptricula
C. algae
C. raptricula
Amphipyra tetra
Apamea pabulatricula
A. epomidion
Oligia latrunoula
O. strigilis
Mesoligia literosa
M. furunoula
Mesapamea secalis
Dypterygia scabriusoula
Euplexia lucipara
Rusina tenebrosa
Thalpoophila matura
Phlogophora meticulosa
Trachea atriplicis
Luperina testacea
Enargia abluta
E. ypsilon
Hydraecia micaoea
Gortyna flavago
Archana sparganii
Photodes fluxa
P. morrisii
Atypha pulmonaris
Ipimorpha retusa
I. subtusa
Cosmia pyralina
Caradrina aspersa
Hoplodrina alsines
Metachrostis dardouini
Eublemma noctualis
Prothymia viridaria
Colocasia coryli
Bena prasinana
Hylophila fagana
Earias chlorana
E. vernana
Calyptro thalictri
Catocala puerpera

C. sponsa
C. fulminea
Colobochyla salicalis
Macdunnoughia confusa
Euxoa vitta
E. obelisca
E. decora
Chersotis fimbriola
C. margaritacea
Epilecta linogrisea
Noctua comes
N. interposita
Auchmis comma
Actinotia radiosa
Mamestra brassicae
M. oleracea
M. contigua
M. suasa
Hadena bicruris
H. cucubali
H. luteago
H. compta
Perigrapha i-cinctum
Orthosia miniosa
O. cruda
O. gothica
O. munda
O. incerta
O. stabilis
O. gracilis
Mythimna vitellina
M. l-album
M. conigera
M. albipuncta
M. pallens
Cucullia chamomillae
C. umbratica
Polymixis polymita
Antitype chi
Ammoconia caecimacula
Lithophane ornitopus
Agrochola litura
A. humilis
A. macilenta

A. nitida
A. laevis
A. circellaris A. lota
A. lota
Conistra vaccinii
C. erythrocephala
C. ligula
C. vau-punctatum
Cirrhia aurago
C. icteritia
C. ocellaris
C. citrago
Atethmia centrago
Oxicesta geographica
Simyra nervosa
Acronicta rumicis
A. auricoma
A. euphorbiae
Craniophora ligustri
Amphipyra tragopoginis
A. berbera
A. pyramidea
Apemea monoglypha
A. sublustris
A. lithoxylaea
A. sordens
A. remissa
A. scolopacina
Caradrina morpheus
C. clavipalpis
C. kadenii
Hoplodrina ambigua
H. superstes
H. respersa
H. blanda
Dicycla oo
Calamia tridens
Cosmia trapezina
C. affinis
Heliothis viriplaca
Melicleptria cardui
Protoschinia scutosa
Lithacodia deceptoria

L. pygarga
Emmelia trabealis
Eublemma arcuinna
E. purpurina
Nycteola revayana
Catocala nymphagoga
C. nupta
C. elocata
Lygephila craccae
L. lusoria
Tyta luctuosa
Callistege mi
Abrostola triplasia
Autographa gamma
Diachrysia chrisitis
Herminia tarsicrinalis
H. lunalis
Polypogon tentacularia
Paracolax glaucinalis
Hypena rostralis
H. proboscidalis
Abrostola asolepiadis
A. trigemina
Rivula sorioealis
Pechipogo strigilata

Carabidae

<i>Carabus convexus</i>	+
<i>C. coriaceus</i>	+
<i>C. hotensis</i>	+
<i>C. nemoralis</i>	+
<i>C. scabriusculus</i>	+
<i>C. scheidleri</i>	+
<i>C. ullrichi</i>	+
<i>Calosoma inquisitor</i>	
<i>Leistus rufomarginatus</i>	
<i>Notiophilus hypocrita</i>	
<i>N. rufipes</i>	
<i>Bembidion dalmatinum</i>	
<i>Pterostichus melanarius</i>	
<i>Pt. melas</i>	

Pt. oblongopunctatus
Abax ovalis
A. parallelepipedus
Molops piceus
Platyderus rufus
Calathus ambiguus
C. fuscipes
C. mollis erythroderus
Laemostenus terricola
Olisthopus sturmi
Platynus dorsalis
Zabrus spinipes
Amara familiaris
A. lucida
A. saphyrea
Harpalus anxius
H. azureus
H. cordatus
H. dimidiatus
H. griseus
H. rufipes
H. tardus
Panagaeus bipustulatus
Lebia cruc-minor
Cymindis axillaris
Dromius quadrimaculatus
Dr. quadrinotatus
Syntomus truncatellus
Microlestes maurus
Aptinus bombarda

Isopoda:

Porcellium collicola Verh.
Orthometopon planum B.L.
Protracheoniscus amoenus C.L.Koch
Trachelipus nodulosus C.L.Koch
Porcellio spinicornis Say

Diplopoda

Chromatoiulus projectus Verh.
Chromatoiulus unilineatus C.L.Koch

Cylindroiulus boleti C.L.Koch
Heteroporatia bosniense Verh.
Heteroporatia bosniense Verh.
Julus scandinavius Latz.
Leptoiulus saltuvagus Verh.
Ophiiulus fallax Mein.
Glomeris hexasticha Brandt.
Polydesmus complanatus L.
Strogylosoma pallipes Oliv.

Chilopoda

Lithobius forficatus L.
" *muticus* C.L.Koch
" *mutabilis* C.L.Koch
" *erythrocephalus* C.L.Koch
Monotarsobius austriacus Verh.
Geophilus proximus Verh.
Cryptops hortensis Bröl.(Leach)
" *anomalans* Newp.

Araneae

Atypidae: *Atypus affinis* Eichw.
Pholcidae: *Pholcus opilionoides* Schrank
Dysderidae: *Harpactes rubicundus* C.L.Koch
" *hombergi* Scop.
Dysdera sp. juv.
Agelenidae: *Agelena gracilens* C.L.Koch
Tegenaria agrestis Walck.
" *torpida* C.L.Koch
Coelotes longispina Kulcz.
Cybaeus angustiarum C.L.Koch
Cicurina cicur Fabr.
Pisauridae: *Pisauramirabilis* Cl.
Lycosidae: *Pardosa lufubris* Walck.
Trochosa terricola Thor.
Alopecosa sulzeri Pav.
" *trabalis* Cl.
" *cuneata* Cl.
" *aculeata* Cl.
Aulonia albimana Walck.

Linyphiidae

Centromerus sylvaticus Blackw.
" *similis* Kulcz.
" *serratus* Kulcz.
" *jacksoni* Denis
Bolyphantes crucifer Menge
Macrargus rufus Wid.
Microneta viaris Blackw.
Tapinopa longidens Wid.
Stemonyphantes lineatus L.
Sydera gracilis Menge
Leptyphantes collinus Westr.
" *minutus* Blackw.
" *cristatus* Menge
" *flavipes* Blackw.
" *tenebricola* Wid.
" *mengae* Kulcz.
" *mansuetus* Thor.
" *nanus* Kulcz.
" *pallidus* O.P.Cambr.
" *angulipalpis* Westr.

Stylophora concolor Wid.

Drapetisca socialis Sund.

Linyphia hortensis Sund.

" *clathrata* Sund.

Porrhomma convexa Westr.

Microlyniphia pusilla Sund.

Micryphantidae: *Wideria simplex* Kulcz.

" *cucullata* C.L.Koch
" *antica* C.L.Koch
" *capito* Westr.
" *melanocephala* O.P.Cambr.

Nematogmus sanguinilentus Walck.

Tigellinus furcillatus Menge

Gonatium corallipes O.P.Cambr.

Ceratinella scabrosa O.P.Cambr.

Tapinocyba insecta C.L.Koch

Trichoncus scrofa Sim.

Araeoncus humilis Menge

Minirioloides sp.

Theridiidae: *Theridium ovatum* Cl.

Robertus arundineti C.L.Koch

	<i>Pholcomma gibbum</i> Westr.
	<i>Episinus lugubris</i> Sim.
	<i>Dipoena melanogaster</i> C. L. Koch
Mimetidae:	<i>Ero furucata</i> Vilers
Drassidae:	<i>Drassodes pubescens</i> Thor. " <i>lapidosus</i> Walck.
	<i>Haplodrassus silvestris</i> Blackw.
	<i>Zelotes electus</i> C. L. Koch " <i>willicus</i> Thor. " <i>erebeus</i> Thor. " <i>serotinus</i> C. L. Koch
	<i>Phaeocedus braccatus</i> C. L. Koch
	<i>Gnaphosa bicolor</i> C. L. Koch
	<i>Gnaphosa</i> sp. juv.
Clubionidae:	<i>Clubiona terrestris</i> Westr. " <i>compta</i> C. L. Koch
	<i>Agroeca pullata</i> Thor.
	<i>Scotina celans</i> Blackw.
Thomisidae:	<i>Xysticus cambridgei</i> Blackw. <i>Oxyptila atomaria</i> Panz. <i>Xysticus</i> sp. juv. <i>Thanatus vulgaris</i> Sim.
	<i>Philodromus aureolus</i> Cl.
Salticidae:	<i>Evarcha laetabunda</i> C. L. Koch
	<i>Euophrys obsoleta</i> Sim.
Dermoptera	<i>Forficula auricularia</i> L.
Blattoptera	<i>Chelidurella acanthopygia</i> Géné <i>Ectobius lapponicus</i> L.
Mantodea	<i>Phyllodromica maculata</i> Schreb. <i>Mantis religiosa</i> L. +
 <u>Orthoptera</u>	
Tettigonioidea	<i>Phaneroptera falcata</i> Poda <i>Leptophyes aloovittata</i> Koll. " <i>punctatissima</i> Bosc
	<i>Meconema thalassinum</i> DeGeer
	<i>Isophya pyrenaea</i> Serv.
	<i>Barbitistes serricauda</i> Fabr.
	<i>Saga pedo</i> Pall. +
	<i>Tettigonia viridissima</i> L.
	<i>Platycleis grisea</i> F.

- Tesselana vittata Charp.
Bicolorana bicolor Philippi
Decticus verrucivorus L.
Conocephalus discolor Thunb.
Pholidoptera griseoaptera de Geer
 " fallax Fischer
 " aptera Fabr.
Rhacocleis germanica H.-S.
Pachytracis gracilis Brunner
Ephippigera ephippiger Fieb.
Caelifera
Tetratetrix nutans Hgb.
 " bipunctata L.
Calliptamus italicus L.
Oedipoda caerulescens L.
Pezotettix giornae Rossi
 Sphingonotus coerulans L.
Acrotylus insubricus Scop.
Dociostaurus brevicollis Ev.
Chrysochraon dispar Germ.
Euthystira brachyptera Ocskay
Dirshius haemorrhoidalis Char.
Omocestus peraeus Bris.
Stenobothrus crassipes Charp.
 " lineatus Panzer
 " nigromaculatus H.
Stenobothrodes eurasius Zub. +
Stenobothrus stigmaticus Ramb.
Glyptobothrus apricarius L.
 " brunneus Thbg.
 " biguttulus L.
 " mollis Charp.
 " vagans Eversm.
Chortippus parallelus Charp.
 " albomarginatus DeG.
Euchortippus declivus Bris.B.
 " pulvinatus F.W.
Gomphocerippus rufus L.
Myrmeleotettix maculatus Thbg.
Grylloidea
Psophus stridulus L.
Gryllus campestris L.
Oecanthus pellucens Scop.
Melanogryllus desertus Pall.
Myrmecophyla acervorum Panz.

Vertebrates

Amphibia

Bufo bufo +

Rana dalmatina +

Hyla arborea +

Bufo viridis +

Reptilia

Lacerta agilis +

Anguis fragilis +

Lacerta viridis +

Elaphe longissima +

Coronella austriaca +

Aves

Ciconia nigra +*

Circus pygargus ++

Circus aeruginosus +

Parus palustris +

Sylvia atricapilla +

Motacilla alba +

Galerida cristata +

Upupa epops +

Saxicola torquata +

Emberiza citrinella +

Serinus serinus +

Phylloscopus collybita +

Carduelis spinus +

Bombycilla garrulus +

Sitta europaea +

Buteo buteo +

Asio otus +

Lullula arborea +

Fringilla coelebs +

Anthus trivialis +

Prunella modularis +

Turdus philomelos +

Circus macrourus +

Dryocopus martius +

Turdus merula +

Parus ater +

Fringilla montifringilla +

Turdus pilaris +

Phylloscopus trochilus +

Luscinia megarhynchos +

Otus scops +

<i>Eremophila alpestris</i>	+
<i>Coturnix coturnix</i>	+
<i>Hirundo rustica</i>	+
<i>Buteo lagopus</i>	+
<i>Oenanthe oenanthoides</i>	+
<i>Prunella collaris</i>	+
<i>Phoenicurus obsoletus</i>	+
<i>Certhia familiaris</i>	+
<i>Accipiter gentilis</i>	+
<i>Corvus corax</i>	+
<i>Falco subbuteo</i>	+
<i>Cuculus canorus</i>	+
<i>Accipiter nisus</i>	+
<i>Sylvia nisoria</i>	+
<i>Carduelis cannabina</i>	+
<i>Loxia curvirostra</i>	+
<i>Parus caeruleus</i>	+
<i>Circus cyaneus</i>	+
<i>Columba oenas</i>	+
<i>Sylvia curruca</i>	+
<i>Falco columbarius</i>	+
<i>Dendrocopos medius</i>	+
<i>Caprimulgus europaeus</i>	+
<i>Turdus viscivorus</i>	+
<i>Strix aluco</i>	+
<i>Coccothraustes coccothraustes</i>	+
<i>Alauda arvensis</i>	+
<i>Sylvia communis</i>	+
<i>Dendrocopos major</i>	+
<i>Lanius excubitor</i>	+
<i>Jynx torquilla</i>	+
<i>Troglodytes troglodytes</i>	+
<i>Ficedula albicollis</i>	+
<i>Aegithalos caudatus</i>	+
<i>Anthus campestris</i>	+
<i>Riparia riparia</i>	+
<i>Certhia brachyptera</i>	+
<i>Apus apus</i>	+
<i>Regulus regulus</i>	+
<i>Oriolus oriolus</i>	+
<i>Pyrrhula pyrrhula</i>	+
<i>Parus major</i>	+

	<i>Turdus iliacus</i>	+
	<i>Picus canus</i>	+
	<i>Muscicapa striata</i>	+
	<i>Carduelis carduelis</i>	+
	<i>Lanus collurio</i>	+
	<i>Regulus ignicapillus</i>	+
	<i>Streptopelia turtur</i>	+
	<i>Falco tinnunculus</i>	+
	<i>Erythacus rubecula</i>	+
	<i>Picus viridis</i>	+
	<i>carduelis chloris</i>	+
<u>Mammalia</u>	<i>Erinaceus concolor</i>	+
	<i>Talpa europaea</i>	+
	<u><i>Chiroptera sp.</i></u>	+
	<u><i>Rodentia</i></u>	
	<i>Muscardinus avellanarius</i>	+
	<i>Glis glis</i>	+
	<i>Sciurus vulgaris</i>	+
	<i>Citellus citellus</i>	+
<u><i>Carnivara</i></u>	<i>Meles meles</i>	+
	<i>Mustela erminea</i>	+
	<i>Mustela nivalis</i>	+
	<i>Felis sylvestris</i>	+

Appendix 2.

Plants

Lichenes

1. *Aspicilia calcarea* (L.) Mudd.
2. *A. cinerea* (L.) Koerb.
3. *Arthonia reniformis* (Pers.) Röhl.
4. *Arthopyrenia alba* (Schrad.) Zahlbr.
5. *A. punctiformis* (Pers.) Massal.
6. *Caloplaca pyracea* (Ach.) Th. Fr.
7. *C. cerina* (Ehrht.) Th. Fr.
8. *Candelaria concolor* (Dicks.) Stein.
9. *Candelariella vitellina* (Ehrht.) Müll. Arg.
10. *Cladonia chlorophaea* (Floerke.) Spreng.
11. *Cl. fimbriata* (L.) Fr.
12. *Cl. macilenta* Hoffm.
13. *Cl. pyxidata* (L.) Fr.
14. *Cl. silvatica* (L.) Hoffm.
15. *Collema tenuum* (Sw.) em Degel.
16. *Dermatocarpon miniatum* (L.) Mann.
17. *Endocarpon pallidum* Ach.
18. *Evernia prunastri* (L.) Ach. f. *retusa* (Ach.) Nyl.
19. *Gasparrinia aurantia* (Pers.) Hellb.
20. *G. murorum* (Hoffm.) Th. Fr.
21. *Hypohymnia physodes* (L.) Ach. var. *laborosa* Ach.
22. *Lecanora albescens* (Hoffm.) Floerke
23. *L. allophana* (Ach.) Röhl.
24. *L. campsstris* (Schaer.) Hue.
25. *L. carpinea* (L.) Vain.
26. *L. muralis* (Schaer.) Rabenh. var. *versicolor* (p-Pers.) Tuck.
27. *L. varia* (Ehrht.) Ach.
28. *Leptogium lichenoides* (Hoffm.) Cromb.
29. *Laprarria candelaris* (L.) Fr.
30. *Parmelia fuliginosa* (Fr.) Nyl. var. *laetevirens* (Flot.) Nyl.
31. *P. quercina* (Willd.) Vain.
32. *P. sulcata* Tayl.
33. *Peltigera canina* (L.) Willd.
34. *P. rufescens* (Weis.) Humb. f. *incusa* (Fw.) Koerb.
35. *Pertusaria amara* (Ach.) Nyl.

36. *P. pulvinata* Erichs.
37. *Physcia tenella* Bitt.
38. *Physconia pulverulenta* (Hoffm.) Nyl. var.
angussata (Hoffm.) Nyl.
39. *Protoblastenia rupestris* (Scop.) Steiner
40. *Ramalina fraxinea* (L.) Ach. var. *ampliata* (Ach.)
41. *Rinodina bischoffii* (Hepp.) Massal.
42. *Sarcogyne pruinosa* (Sm.) Koerb.
43. *Toninia coeruleonigricans* (Lightf.) Th. Fr.
44. *Verrucaria calciseda* DC.
45. *V. dolomitica* (Massal.) Krempel.
46. *V. lecideoides* (Massal.) Trev.
47. *V. nigricans* (Nyl.) Zsch.
48. *Xanthoria parietina* (L.) Th. Fr.
49. *X. parietina* f. *chlorina* (Chev.) Oliv

Pedunculate

- | | | |
|-----|------------------------|---|
| 1. | Acer campestre | |
| 2. | platanooides | |
| 3. | pseudoplatanus | |
| 4. | tataricum | |
| 5. | Achillea collina | |
| 6. | distans | |
| 7. | nobilis | |
| 8. | pannonica | |
| 9. | Acinos arvensis | |
| 10. | Aconitum anthora | + |
| 11. | vulparia | + |
| 12. | Actaea spicata | + |
| 13. | Adonis vernalis | + |
| 14. | Aegopodium podagraria | |
| 15. | Aesculus hippocastanum | |
| 16. | Agrimonia eupatori | |
| 17. | Agropyron caninum | |
| 18. | intermedium | |
| 19. | repens | |
| 20. | Agrostis alba | |
| 21. | Ajuga genevensis | |
| 22. | reptans | |
| 23. | Alliaria petiolata | |
| 24. | Allium flavum | |
| 25. | moschatum | |
| 26. | montanum | |
| 27. | oleraceum | |
| 28. | rotundum | |
| 29. | scorodoprasum | |
| 30. | sphaerocephalum | + |
| 31. | Alopecurus pratensis | |
| 32. | Alyssum alyssoides | |
| 33. | montanum | |
| 34. | montanum gmelini | |
| 35. | tortuosum | |
| 36. | Amaranthus retroflexus | |
| 37. | Ambrosia elatior | |
| 38. | Anacampsis pyramidalis | + |
| 39. | Anagallis arvensis | |
| 40. | Anchusa officinalis | |
| 41. | Andropogon ischaemum | |
| 42. | Anemone ranunculoides | |
| 43. | sylvestris | + |
| 44. | Anthemis tinctoria | |
| 45. | Anthericum ramosum | |

46. *Anthoxanthum odoratum*
47. *Anthriscus sylvestris*
48. *Anthyllis calcicola*
49. *macrocephala*
50. *Aquilegia vulgaris* +
51. *Arabidopsis thaliana*
52. *Arabis hirsuta*
53. *recta*
54. *turrita*
55. *Arctium lappa*
56. *Arenaria leptoclados*
57. *serpyllifolia*
58. *Arhenatherum elatius*
59. *Artemisia austriaca*
60. *campestris*
61. *vulgaris*
62. *Arum maculatum*
63. *Asarum europaeum*
64. *Asparagus officinalis*
65. *Asperula cynanchica*
66. *tinctoria*
67. *Asplenium ruta-murari*
68. *trichmanes*
69. *Aster amellus* +
70. *linosyris*
71. *Astragalus austriacus*
72. *cicer*
73. *glyciphylus*
74. *onobrychis*
75. *Athyrium filix-femina*
76. *Atriplex patula*
77. *Atropa belladonna*
78. *Ballota nigra*
79. *Barbarea vulgaris*
80. *Berberis vulgaris*
81. *Berteroa incana*
82. *Betonica officinalis*
83. *Betula pendula*
84. *Bilderdykia dumetorum*
85. *Biscutella laevigata*
86. *Botrychium lunaria* +
87. *Brachypodium pinnatum*
88. *sylvaticum*
89. *Briza media*
90. *Bromus erectus*
91. *inermis*
92. *japonicus*
93. *ramosus*
94. *pannonicus*
95. *squarrosum*
96. *sterilis*
97. *tectorum*

98. *Bupleurum affine*
99. *longifolium*
100. *falcatum*
101. *praealtum*
102. *Calamagrostis epigeios*
103. *varia*
104. *Calamintha clinopodium*
105. *Camelina microcarpa*
106. *Camoanula glomerata*
107. *patula*
108. *persicifolia*
109. *rapunculoides*
110. *rotundifolia*
111. *sibirica*
112. *trachelium*
113. *Cannabis sativa*
114. *Capsella bursa-pastoris*
115. *Cardamine impatiens*
116. *Cardaminopsis arenosa*
117. *hispida*
118. *Carduus acanthoides*
119. *collinus*
120. *glaucinus* +
121. *nutans*
122. *Carex alba*
123. *caryophyllea*
124. *digitata*
125. *divulsa*
126. *ericetorum*
127. *hirta*
128. *humilis*
129. *liparicarpos*
130. *michelii*
131. *pairae*
132. *montana*
133. *pairaei*
134. *pallescens*
135. *pilosa*
136. *praecox*
137. *stenophylla*
138. *supina*
139. *sylvatica*
140. *Carlina intermedia*
141. *Carpinus betulus*
142. *Castanea sativa*
143. *Caucalis platycarpos*
144. *Centaurea arenaria*
145. *axillaris*
146. *micranthos*
147. *pannonica*
148. *rhenana*
149. *sadleriana* +

150. *Centaurium minus*
151. *Cephalanthera damasonium* +
152. *longifolia* +
153. *rubra* +
154. *Cerastium brachypetalum*
155. *glomeratum*
156. *fontanum*
157. *vulgatum*
158. *Cerasus avium*
159. *fruticosa*
160. *mahaleb*
161. *Cerinthe minor*
162. *Chaerophyllum aromaticum*
163. *temulum*
164. *Chamaecytisus austriacus*
165. *hirsutus (leucotrichus)*
166. *ratisbonensis*
167. *Chelidonium majus*
168. *Chenopodium album*
169. *hybridum*
170. *Chondrilla juncea*
171. *Chrysanthemum corymbosum*
172. *leucanthemum*
173. *Chrysopogon gryllus*
174. *Cichorium intybus*
175. *Circaeа lutetiana*
176. *Cirsium arvense*
177. *vulgare*
178. *Cleistogenes serotina*
179. *Clematis recta*
180. *vitalba*
181. *Colchicum autumnale*
182. *Colutea arborescens*
183. *Convallaria majalis*
184. *Convolvulus arvensis*
185. *cantabricus*
186. *Cornus mas*
187. *sanguinea*
188. *Coronilla coronata* +
189. *vaginalis* +
190. *varia*
191. *Corydalis cava*
192. *solida*
193. *Corylus avellana*
194. *Corylus colurna*
195. *Cotoneaster* sp.
196. *Crataegus monogyna*
197. *oxyacantha*
198. *Crepis rhoeadifolia*
199. *Cruciata ciliata*
200. *glabra*
201. *laevipes*

202. *pedemontana*
203. *Crupina vulgaris*
204. *Cuscuta epithymum*
205. *europaea*
206. *Cynanchum vincetoxicum*
207. *Cynodon dactylon*
208. *Cynoglossum hungaricum*
209. *officinale*
210. *Cystopteris filix-fragilis*
211. *Dactylis glomerata*
212. *polygama*
213. *Daphne cneorum* +
214. *Daucus carota*
215. *Datura stramonium*
216. *Dentaria bulbifera*
217. *enneaphylla*
218. *Dianthus armeria*
219. *collinus* +
220. *pontederae*
221. *regis stephani* +
222. *Dictamnus albus* +
223. *Digitalis grandiflora*
224. *Doronicum hungaricum* +
225. *Dorycnium germanicum*
226. *Draba lasiocarpa* +
227. *nemorosa*
228. *Dryopteris carthusiana* +
229. *dilatata* +
230. *filix-mas*
231. *Echinochloa crus-galli*
232. *Echium vulgare*
233. *Elaeagnus angustifolia*
234. *Epilobium montanum*
235. *Epipactis atrorubens borbásii* +
236. *helleborine* +
237. *microphylla* +
238. *Equisetum ramosissimum*
239. *Erigeron acris*
240. *Erigeron canadensis*
241. *Erodium cicutarium*
242. *Erophila microcarpa*
243. *verna*
244. *Eryngium campestre*
245. *Erysimum diffusum*
246. *odoratum* +
247. *Euonymus europaeus*
248. *verrucosus*
249. *Eupatorium cannabinum*
250. *Euphorbia amygdaloides*
251. *cyparissias*
252. *epithymoides*
253. *seguieriana*

254. *seguieriana* ssp. *minor*
255. *Fagus sylvatica*
256. *Falcaria vulgaris*
257. *Festuca amethystina* +
258. *gigantea*
259. *heterophylla*
260. *pallens* +
261. *pseudovina*
262. *rupicola*
263. *vaginata*
264. *valesiaca*
265. *wagneri*
266. *Ficaria verna*
267. *Filipendula vulgari*
268. *Fragaria elatior*
269. *viridi*
270. *vesca*
271. *Fraxinus excelsior*
272. *ornus*
273. *Fumana vulgaris*
274. *Fumaria schleicheri*
275. *Gagea lutea*
276. *pratensis*
277. *pusilla*
278. *Galanthus nivalis*
279. *Galeobdolon luteum*
280. *Galeopsis pubescens*
281. *tetrahit*
282. *Galinsoga parviflora*
283. *Galium aparine*
284. *austriacum*
285. *glaucum*
286. *mollugo erectum*
287. *odoratum*
288. *Asperula=G, glaucum x verum*
289. *schultesii*
290. *verum*
291. *Genista elata*
292. *pilosa*
293. *Gentiana ciliata* +
294. *Gentiana cruciata* +
295. *Geranium lucidum*
296. *phaeum*
297. *robertianum*
298. *sanguineum*
299. *Geum urbanum*
300. *Glechoma hederacea*
301. *hirsuta*
302. *Globularia punctata*
303. *Gnaphalium sylvaticum*
304. *Gypsophila arenaria* +
305. *paniculata*

306. *Hedera helix*
307. *Helianthemum canum*
308. *ovatum*
309. *Helichrysum arenarium* +
310. *Helictotrichon pubescens*
311. *Helleborus dumetorum*
312. *Heracleum sphondylium*
313. *Herniaria hirsuta*
314. *hirsutus*
315. *Hesperis tristis*
316. *Hieracium bauhini*
317. *caespitosum*
318. *cymosum*
319. *echioides*
320. *lachenali*
321. *pilosella*
322. *racemosum*
323. *sabaudum*
324. *sylvaticum*
325. *umbellatum*
326. *Holosteum umbellatum*
327. *Hordelymus europaeus*
328. *Hornungia petraea*
329. *Humulus lupulus*
330. *Hypericum hirsutum*
331. *montanum*
332. *Hypericum perforatum*
333. *Hypochoeris maculata*
334. *Impatiens parviflora*
335. *noli-tangere*
336. *Inula britannica*
337. *conyzoides*
338. *ensifolia*
339. *hirta*
340. *oculus-christi* +
341. *salicina*
342. *Iris arenaria* +
343. *graminea* +
344. *pumila* +
345. *variegata* +
346. *Isopyrum thalictroides*
347. *Sempervivum hirtum* +
348. *Juncus effusus*
349. *Juniperus communis*
350. *Jurinea mollis* +
351. *Knautia arvensis*
352. *drymeia*
353. *kitaibelii* ++
354. *Kochia laniflora*
355. *Koeleria cristata*
356. *Koeleria glauca*
357. *majoriflora*

358. *Lactuca perennis*
359. *quercina*
360. *serriola*
361. *Lamium amplexicaule*
362. *maculatum*
363. *purpureum*
364. *Lappula squarrosa*
365. *Lapsana communis*
366. *Larix decidua*
367. *Laser trilobum*
368. *Laserpitium latifolium*
369. *Lathraea squamaria*
370. *Lathyrus latifolius*
371. *niger*
372. *pannonicus* +
373. *sphaericus*
374. *vernus*
375. *Lembotropis nigricans*
376. *Leontodon hispidus*
377. *autumnalis*
378. *Lepidium campestre*
379. *draba*
380. *Libanotis pyrenaica*
381. *Ligustrum vulgare*
382. *Lilium martagon* +
383. *Limodorum abortivum* +
384. *Linaria genistifolia*
385. *vulgaris*
386. *Linum austriacum*
387. *catharticum*
388. *dolomiticum* ++
389. *flavum* +
390. *hirsutum* +
391. *tenuifolium* +
392. *Lithospermum arvense*
393. *officinale*
394. *purpureo-coeruleum*
395. *Lolium perenne*
396. *Lonicera xylosteum*
397. *Loranthus europaeus*
398. *Lotus borbásii*
399. *corniculatus*
400. *Luzula albida*
401. *campestris*
402. *Lychnis flos-cuculi*
403. *Lycopodium clavatum* +
404. *Lysimachia nummularia*
405. *Malva neglecta*
406. *Matricaria inodora (perforata)*
407. *Medicago falcata*
408. *lupulina*
409. *minima*

410. *Melampyrum barbatum*
411. *cristatum*
412. *nemorosum*
413. *arvense*
414. *Melandrium album*
415. *Melica nutans*
416. *Melica uniflora*
417. *Melica ciliata*
418. *Melilotus officinalis*
419. *Melittis grandiflora*
420. *Mercurialis annua*
421. *longistipes*
422. *perennis*
423. *Milium effusum*
424. *Minuartia glomerata*
425. *setacea*
426. *verna*
427. *Moehringia trinervia*
428. *Muscari comosum*
429. *racemosum*
430. *Mycelis muralis*
431. *Myosotis arvensis*
432. *ramosissima*
433. *Myosoton aquaticum*
434. *Neottia nidus-avis* +
435. *Nonea pulla*
436. *Odontites lutea*
437. *serotina*
438. *Onosma arenarium* +
439. *visiani* +
440. *Ophioglossum vulgatum* +
441. *Orchis militaris* +
442. *morio* +
443. *purpurea* +
444. *tridentata* +
445. *ustulata* +
446. *Origanum vulgare*
447. *Orlaya grandiflora*
448. *Ornithogalum boucheanum*
449. *umbellatum*
450. *Orobanche alba*
451. *caryophyllacea*
452. *teucrii*
453. *Oxalis fontana*
454. *Papaver dubium*
455. *rhoeas*
456. *Paronychia cephalotes* +
457. *Petrohagia prolifera*
458. *Peucedanum arenarium*
459. *cervaria*
460. *oreoselinum*
461. *Phleum phleoides*

462. *Physalis alkekengi*
463. *Phyteuma orbiculare* +
464. *Picris hieracioides*
465. *Pimpinella saxifraga*
466. *Pinus nigra*
467. *sylvestris*
468. *Piptatherum virescens*
469. *Plantago indica*
470. *lanceolata*
471. *major*
472. *media*
473. *Platanthera bifolia* +
474. *Poa angustifolia*
475. *badensis*
476. *bulbosa*
477. *compressa*
478. *nemoralis*
479. *pratensis*
480. *Polygala amara*
481. *comosa*
482. *major* +
483. *Polygonatum latifolium*
484. *multiflorum*
485. *odoratum*
486. *Polygonum aviculare*
487. *lapathifolium*
488. *minus*
489. *patulum*
490. *Polypodium vulgare*
491. *persicaria*
492. *Populus canescens*
493. *tremula*
494. *Potentilla arenaria*
495. *argentea*
496. *collina*
497. *heptaphylla*
498. *impolitata*
499. *recta*
500. *reptans*
501. *Primula veris*
502. *Prunella grandiflora* +
503. *laciniata*
504. *vulgaris*
505. *Prunus spinosa*
506. *Pteridium aquilinum*
507. *Pulmonaria mollissima*
508. *officinalis*
509. *Pulsatilla grandis* +
510. *nigricans* +
511. *Pyrus pyraster*
512. *Quercus cerris*
513. *petraea*

514. *pubescens*
515. *robur*
516. *Ranunculus auricomus*
517. *illyricus* +
518. *polyanthemos*
519. *repens*
520. *Raphanus raphanistrum*
521. *Reseda lutea*
522. *Rhamnus catharticus*
523. *Rhinanthus minor*
524. *Robinia pseudoacacia*
525. *Rosa canina*
526. *gallica*
527. *spinosissima*
528. *Rubus candicans*
529. *idaeus*
530. *Rumex acetosa*
531. *acetosella*
532. *sanguineus*
533. *Salix caprea*
534. *Salvia austriaca*
535. *glutinosa*
536. *nemorosa*
537. *pratensis*
538. *verticillata*
539. *Sambucus ebulus*
540. *nigra*
541. *Sanguisorba minor*
542. *Sanicula europaea*
543. *Saponaria officinalis*
544. *Saxifraga bulbifera*
545. *tridactylites*
546. *Scabiosa canescens*
547. *ochroleuca*
548. *Scorzonera austriaca*
549. *hispanica*
550. *purpurea*
551. *Scrophularia nodosa*
552. *Sedum acre*
553. *album*
554. *maximum*
555. *sexangulare*
556. *Senecio integrifolius*
557. *jacobea*
558. *Serratula tinctoria*
559. *Seseli annuum*
560. *hippomarathrum*
561. *leucospermum* +
562. *osseum*
563. *Setaria pumila*
564. *viridis*
565. *Sideritis montana*

566. *Silene conica*
567. *nutans*
568. *otites pseudotites*
569. *viridiflora*
570. *vulgaris*
571. *Sinapis arvensis*
572. *Sisymbrium officinale*
573. *strictissimum*
574. *Solanum dulcamara*
575. *nigrum*
576. *Solidago canadensis*
577. *virga-aurea*
578. *Sonchus asper*
579. *oleraceus*
580. *Sorbus aria*
581. *semiincisa*
582. *torminalis*
583. *Stachys recta*
584. *sylvatica*
585. *Staphylea pinnata*
586. *Stellaria graminea*
587. *holostea*
588. *media*
589. *Stenactis strigosa*
590. *Stipa capillata*
591. *eriocaulis* +
592. *pulcherrima* +
593. *Symphtym tuberosum*
594. *Taraxacum laevigatum*
595. *officinale*
596. *Teucrium chamaedrys*
597. *montanum*
598. *Thalictrum minus*
599. *pseudominus* +
600. *Thesium linophyllum*
601. *ramosum*
602. *Thlaspi perfoliatum*
603. *Thymus glabrescens*
604. *marschallianus*
605. *praecox*
606. *Tilia cordata*
607. *platyphyllos*
608. *Torilis japonica*
609. *Tragopogon dubius*
610. *orientalis*
611. *Trifolium alpestre*
612. *arvense*
613. *aureum*
614. *campestre*
615. *medium*
616. *montanum*
617. *pratense*

618. repens
619. *Trinia glauca*
620. *Turritis glabra*
621. *Tussilago farfara*
622. *Ulmus campestris*
623. laevis
624. scabra
625. *Urtica dioica*
626. urens
627. *Valeriana collina*
628. *Valerianella locusta*
629. *Veratrum nigrum*
630. *Verbascum austriacum*
631. lychnitis
632. phlomoides
633. *Verbena officinalis*
634. *Veronica arvensis*
635. austriaca dentata
636. chamaedrys
637. hederifolia
638. officinalis
639. persica
640. praecox
641. prostrata
642. serpyllifolia
643. spicata
644. teucrium
645. verna
646. *Viburnum lantana*
647. *Vicia cracca*
648. hirsuta
649. lathyroides
650. sepium
651. sparsiflora
652. tetrasperma
653. tenuifolia
654. *Vinca herbacea* +
655. minor
656. *Vincetoxicum hirundinaria*
657. *Viola alba*
658. arvensis
659. cyanea
660. hirta
661. kitaibeliana
662. mirabilis
663. odorata
664. riviniana
665. rupestris
666. sylvestris
667. tricolor
668. *Viscaria vulgaris*
669. *Viscum album*

670. *Xeranthemum annum*

671. *Waldsteinia geoides*

Signs:

+ species protected in Hungary

++ species strictly protected in Hungary