

Hungary in Summer

Naturetrek Tour Report

5 - 12 August 2014



Allium flavum



Poplar Hawk-moth



Queen of Spain Fritillary



Glycyrrhiza echinata

Report and images compiled by Paul Harnes



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Day 1

Tuesday 5th August

Weather: Fine, hot and sunny, with a storm in the late evening.

Eleven group members met with Paul at London Heathrow, Terminal 3 for the British Airways flight BA866 to Budapest Ferenc Liszt International (formerly Ferihegy) Airport. On arrival we completed immigration formalities, collected our luggage, and made our way to the arrivals hall, where we were met by Gerard, our local guide, and Attila, our driver for the week. Before very long, Attila had loaded our luggage into the trailer, and we were on our way south towards the Kiskunsag National Park. After about an hour we passed through the village of Bugyi, making a stop on a wide verge to the south of the village. Here we had a snack, and got our first look at this sandy habitat. Western Marsh Harrier, European Turtle Dove and a family of Red-backed Shrike were seen, and Eastern Bath White, Small White, Chestnut Heath and Scarce Copper butterflies were also noted. Plants here were *Salvia nemorosa* (Woodland Sage), *Consolida regalis* (Forking Larkspur) and *Elaeagnus angustifolia* (Russian Olive).

From here, we moved on to an area of ancient relic sand dunes, near Kundeszer. Along the way we saw a number of European Rollers and a good sized flock of European Bee-eaters. We walked one of the dunes, to scan for wildlife, and we were not disappointed. A distant flock of some seven or eight Great Bustards were seen in the distance. Common Buzzard, Eastern Imperial Eagle and Common Kestrel were also recorded, along with *Lacerta agilis* (Sand Lizard) and the cute European Souslik. For the botanists, there was *Echium vulgare* (Viper's-bugloss), *Potentilla argentea* (Hoary Cinquefoil), and *Limonium gmelinii* subsp. *hungaricum* (a Sea Lavender), a relic of a former saline habitat.

It was now time to make our way to our hotel. The Kunsagi Major is situated in the plains, some ten minutes from Kunpuszta. Here we were met by Richard, our host for the next two nights. We soon settled into our rooms and freshened up, before meeting for dinner. After our meal, Paul set the moth trap.

Day 2

Wednesday 6th August

Weather: Cloudy with the occasional light shower, with heavy rain in the evening.

At 6am, several group members met with Paul, to check to moth trap, and identify the catch. Poplar Kitten, Buff Tip, Sharp-angled Peacock, Small Elephant Hawkmoth and Geomatrician were among the Macros, and European Corn-borer and Garden Grass Veneer, the Micros. At 7am, Gerard led a bird walk around the grounds of the Hotel. Common Stonechat, Eurasian Hoopoe, Great Spotted Woodpecker, Eurasian Golden Oriole, Black Redstart and European Bee-eater were all seen.

Following breakfast, we joined the vehicle at 9am, and left the hotel, heading in a south-westerly direction. Along the way European Roller, Red-backed Shrike, Yellow-legged Gull, Northern Lapwing and Common Kestrel were all seen. Our first stop was near the village of Jaraspuszta, in an area of sandy grassland, with small outlying tree groups. Immediately, we were aware of a good number of Red-footed Falcons, which utilise a combination of nest boxes erected for European Rollers, and old Corvid nests. Gerard pointed out the differences between the males, females and juveniles. Rook, Common Starling, Western Jackdaw, Eurasian Tree Sparrow and Eurasian Curlew were all seen. Insects were few and far between. However, interesting plants included *Althaea officinalis* (Marsh-mallow) and *Bolboschoenus maritimus* (Sea Clubrush), both growing some five hundred miles from the nearest coast as relics of a past, saline habitat.

Moving on, we headed towards the town of Akasztó. Just to the north east, we stopped at a 'small salt lake' (Baba Szek). Here we found Garganey, Eurasian Teal, Mallard and a solitary Spotted Redshank. Overhead there were several Western Marsh Harriers and a couple of Purple Herons. We also had close, scoped views of a juvenile Red-footed Falcon. Paul also found a Common Heath moth, as well as Meadow Brown, Silver-studded Blue and Chestnut Heath butterflies. We then went into the town of Akasztó for coffee. Here we added European Serin to the bird list.

On the opposite side of the road to the salt lake, we checked the canal banks at the Horgaszta fish ponds. The canal had *Hydrocharis morsus-ranae* (Frogbit) and the carnivorous *Utricularia australis* (Southern Bladderwort) and, in a puddle along the path, Gerard found *Bombina orientalis* (Fire-bellied Toad). We then retraced our steps back to Jaraspuszta, for lunch. While Attila, Gerard and Paul were setting up the picnic, we watched a pair of White Storks searching a field for food. As we ate, European Bee-eaters could be heard, but not seen, and we also found Silver-Y moth and the curious *Acrida ungarica* (Nose Grasshopper).

With lunch completed, we re-joined the bus for the drive to the Fulophasza Biosphere Reserve, an area of woodland and relic sand dunes. Upon our arrival, we immediately encountered Woodland Grayling and Dryad butterflies. Many of the plants here, such as *Salsola kali* (Prickly Saltwort) and *Euphorbia paralias* (Sea Spurge) were, again, left over from a time when this area was coastal. Other plants included *Berberis vulgaris* (Barberry), *Clinopodium vulgare* (Wild Basil) and *Ambrosia artemisiifolia* (Ragweed). For the birders there were tantalising, but indistinct, glimpses of Eurasian Golden Oriole and European Green Woodpecker.

On the return journey to the hotel, we spotted a small group of four Corn Buntings, sitting on an overhead line.

Day 3

Thursday 7th August

Weather: Heavy overnight rain, becoming cloudy and showery, before turning fine, hot and sunny.

At 6.30am, we met up to check the moth trap. New species included Spurge Hawkmoth, Ruby Tiger and Blood-vein. European Bee-eaters, Little Owl, Great Tit and Eurasian Golden Oriole were all heard, and Barn Swallow and Black Redstart were seen.

By 9am, the trailer was packed with our luggage, and we said our farewells to the Kunsagi Major Hotel, and set off for the town of Kerekegyhaza, where we bought bread and fresh salad, before heading towards the M5 motorway north towards Budapest. Along the way we saw Red-backed Shrike, a solitary Black Stork, Common Buzzard and Eurasian Sparrowhawk, as well as a number of sightings of European Roe Deer.

On the south-west outskirts of the city, we joined the M0, Budapest's orbital motorway, and then, to the north of the city, we transferred to the M3 eastwards, at which point it began to rain. After a short break on the motorway, where we added several Crested Larks and Brown Hare, we continued on towards Fuzesabony, where we turned south east towards Poroszlo, and took a side track along the western bank of Lake Tisza. Here, we set up lunch and began to explore. Early sightings included Squacco Heron, Whiskered Tern, Savi's Warbler and Mute Swan, as well as Common Blue and Chestnut Heath butterflies. After our picnic, we set off to walk along the embankment. Almost at once we found Eurasian Penduline Tit, Reed Bunting and Eurasian Reed Warbler. Silver-studded Blue, Holly Blue, Meadow Brown and the white form of Eastern Pale Clouded Yellow butterflies were also seen. We stopped at a point where we had a superb view of a reedbed, and almost immediately found Pigmy Cormorant, Little Crake, Grey Heron, Purple Heron, Ferruginous Duck and a good number of Great Egrets. Plants included *Glycyrrhiza echinata* (a Vetch), *Erigeron annuus* (Annual Fleabane) and the introduced, *Gleditsia triacanthos* (Honey Locust).

It was now time to re-join the bus for the rest of our journey. Driving via Egyek, it was not too long before we arrived at the Tiszacsege Hotel, on the bank of the River Tisza. After settling into our rooms and freshening up, we met up for dinner.

When it got dark, some of us went on an unsuccessful hunt for *Bufo viridis* (Green Toad). However, we did find some Glow-worms.

Day 4

Friday 8th August

Weather: Dull, overcast and somewhat humid, with intermittent rain during the afternoon.

The overnight moth trapping produced a number of new species, given the change of habitat from the Kiskunsage. The catch included Swallow Prominent, Black 'V' Moth, Small Blood-vein, Single-dotted Wave, Uncertain and Orange Moth. After the initial checking, the group joined Gerard for an early morning walk around the area of the hotel. Black Redstart, Barn Swallow, Common House Martin and a perched Kingfisher were seen.

After breakfast, Paul demonstrated the pick of the moth catch, before we set off to the part of the Hortobagy Nemzeti (National) Park, to the east of Tiszacsege, stopping first at the bridge on the Nyugati-főcsatorna

(Western Main Canal), to explore a track, for insects and plants, and to look for birds. White Stork, Northern Lapwing, Greylag Goose, White Stork and Lesser Whitethroat were all seen, whilst along the track, Silver-studded Blue, Chestnut Heath, Clouded Yellow and Small White butterflies were all recorded. *Rana dalmatina* (Agile Frog) and *Rana kl. esculenta* (Edible Frog) were also noted, as well as *Helix pomatia* (Roman Snail). In the canal there was a good display of *Hydrocharis morsus-ranae* (Frog-bit), *Salvinia natans* (Floating Fern), and *Potamogeton natans* (Broad-leaved Pondweed) while, along the track, Anne and Carolyn found *Verbasicum phoeniceum* (Purple Mullein).

We now moved further east and spent some time exploring two separate areas of pasture to the NW of Balmazujvaros. At the first, there was an observation tower in the corner of the field and from it, vast areas of pasture and grassland could be seen. Distant views of Common Cranes were had, as well as Great Egret, Common Stonechat, Corn Bunting and Eurasian Hobby. Further on we found European Sousek, as well as a female *Lacerta agilis* (Sand Lizard). Plants included *Trifolium arvense* (Hare's-foot Clover), *Ballota nigra* (Black Horehound) and *Hordeum marinum* (Sea Barley), another maritime relic. A pair of Eurasian Hoopoes, Barn Swallow and a fleeting Red-footed Falcon were also seen.

We now made our way into Balmazujvaros, where we stopped for a break and ice cream, before moving to a dry salt lake, which had some wet areas, southeast of the town. Here, we found a good number of Northern Lapwing and Eurasian Curlew, as well as a solitary Common Sandpiper. Large White and Scarce Swallowtail were added to the butterfly list.

Retracing our steps to the north side of Balmazujvaros, we found ourselves a picnic site, set back from the road behind some trees. Red Admiral, Meadow Brown and Swallowtail were seen whilst lunch was being prepared. Just as we were preparing to eat, we were caught in a rather heavy down-pour, so improvised cover was needed.

With our meal completed, we continued northwest, to a point where a steel tower electricity line crossed the road. Gerard noticed several pairs of Common Kestrels in this vicinity, and, as it had now stopped raining, decided to investigate further. Lesser Grey Shrike, Long-tailed Tit and European Roller were seen also. At this point, Gerard found a solitary Saker Falcon sitting on a distant electricity tower, preening. After everyone had had initial views, we gradually moved closer, in order to improve the views. The whole group was elated by the experience.

It was now coming on to rain again, so we made our way back to the hotel. Here we had late afternoon views of a pair of Black Storks and Common Redstart, before it was time for dinner.

Day 5

Saturday 9th August

Weather: Cloudy at first, becoming fine, hot and sunny.

Today we bid farewell to the Hortobagy National Park, but not before we had checked the moth trap. New finds included Poplar Hawkmoth, Vapourer, Buff Ermine, Shaded Fan-foot and Mother of Pearl. The birders, meanwhile, recorded Common Redstart and a juvenile Great Spotted Woodpecker, and they also heard the contact call of Common Nightingale.

After breakfast, we began the journey north to another of this country's vast National Parks, in the Bukk Hills. With luggage stowed in the trailer, we boarded the minibus and set off in the direction of Egyek, where we turned off the main road towards the Tiszadorogma Ferry. As we drove, Gerard spotted a Black Woodpecker, which we stopped to watch. All group members had good views of this enigmatic bird. Just before the ferry, we paused to explore an area of grassland and woodland beside an Ox-bow lake. In the morning sunshine, day-flying moths and butterflies were now on the move, with Silver-studded Blue, Large White, Meadow Brown, Eastern Bath White and Pale Clouded Yellow butterflies and Spotted Sulphur, Yellow Shell and Four-spotted moths all noted. Around the margins of the fields we also found *Dipsacus laciniatus* (Cut-leaved Teasel), *Verbascum nigrum* (Dark Mullein) and *Erigeron annuus* (Annual Fleabane) and, overhead, Common Buzzard, White-tailed Sea Eagle and Yellow-legged Gull were also seen. Entering some trees, Gerard heard the call of Lesser Spotted Woodpecker. Patient searching finally resulted in some good views, as a pair of birds passed overhead from tree to tree.

We now took the ferry across the River Tisza to Tiszadorogana. On the north side, we stopped for refreshments. As we were making our way the café, a very obliging Lesser Purple Emperor butterfly chose to sit on the hands of several group members.

Moving on, we made our way to a reserve to the north of Tiszababolna, comprising vast grasslands, dykes and ponds and areas of scrub. Common Crane, White Stork, European Roller, Western Marsh Harrier, Great Reed Warbler, Lesser Grey Shrike, Black Stork were all seen, as well as a solitary Olivaceous Warbler. Butterflies included Mallow Skipper, Eastern Pale Clouded Yellow, Meadow Brown, Lesser Purple Emperor, and for the moths, we added Silver-Y and Garden Grass Veneer. There was also *Mantis religiosa* (Praying Mantis) and a number of, 'speedy' Flash-colours Grasshoppers. After taking our picnic in the shade of some trees, we moved on towards the Bukk Hills, stopping en-route to see roosting Long-eared Owls.

Our final stop of the day was by the Hor Reservoir. Barn Swallows were feeding over the surface, and Black-headed Gull, Wood Sandpiper, Black-tailed Godwit, Little Ringed Plover, Common Sandpiper, Mallard, Northern Lapwing, Grey and Purple Herons and Yellow-legged Gull were seen by the birders, and Short-tailed Blue butterfly and a Four-spotted Moth and Seven-spot Ladybird, were recorded by the entomologists.

The final leg of the journey saw us arriving at the Hotel Nomad at Noszvaj, where we were met by the manageress, Barbara, who soon had us settling into our rooms, in time for a little local exploring before dinner.

Day 6

Sunday 10th August

Weather: Fine, hot and sunny.

The early morning moth trap yielded, Large Yellow Underwing, Fern, Least Carpet, Scorched Carpet and *Hedya salicella*, a yellow Tortrix. Meanwhile, the birders had great views of Middle Spotted Woodpecker, Kingfisher and Hawfinch.

At 9am, we left the Nomad Hotel, and drove down to Bogacs, where we made an early stop, just north of the village, at the site of an old drive-in movie theatre. Here we began to explore the scrubby margins and rough grassland, finding Great Banded Grayling, Chestnut Heath, Meadow Brown, Weaver's Fritillary, Scarce

Swallowtail and Silver-studded Blue butterflies. Entering some woodland, with 'Tufa' outcrops, containing wine stores, we added *Anax imperata* (Blue Emperor Dragonfly), *Cetonia aurata* (Rose Chafer), *Vesper crabro* (Hornet), *Podachis muralis* (Common Wall Lizard) and Red Squirrel.

Our next stop was an area of open woodland to the north east of Cserepfalu. Here we added Dryad, Common Glider, Painted Lady, Green-veined White, Queen of Spain Fritillary, Silver-washed Fritillary, Holly Blue, Map and Large Skipper to the butterfly list. Black Woodpecker was heard calling in the distance, but failed to respond to Gerard's whistles. Plants here included *Dipsacus pilosa* (Small Teasel), *Campanula persicifolia* (Peach-leaved Bellflower), *Dianthus armeria* (Deptford Pink) and *Tilia cordata* (Small-leaved Lime). We now returned to the bus for our lunch, which we enjoyed in the warm shade of a clearing.

Time was moving on, so we made our way down towards the village of Tard. Along the way we stopped to watch a family of Lesser Spotted Eagles, hunting in the middle distance. We also recorded Western Marsh Harrier and Red-backed Shrike. Just outside the village of Tard, we set out to explore a track, which led up to an old sandy quarry, where European Bee-eaters have nest in holes in the quarry sides. As we progressed, we also found Brown Argus, Eastern Short-tailed Blue, Small White, Chestnut Heath and Short-tailed Blue.

It was now time to return to the Nomad for dinner.

Day 7

Monday 11th August

Weather: Fine, hot and sunny, with a late afternoon shower.

This morning, the moth trap produced Willow Beauty, Iron Prominent, Blood-vein and Hoary Footman for the Macros, and Bramble-shoot Moth, the Tortrix *Agapeta zoegana* and the Crambid *Oncocera semirubella* for the Micros. Meanwhile, the early birders saw Kingfisher on the village pond, Black Redstart, Eurasian Blackcap and Hawfinch, and heard Stock Dove, and Middle Spotted Woodpecker.

After breakfast, we made our way back through the villages of Bogacs and Cserepfalu, stopping by the visitor centre at the south end of the Hor Valley. Leaving the minibus, we set off to spend the morning exploring the valley. The habitat comprised of a good track, wooded hillsides and tracksides, a quarry and some grassy meadows. The Hor stream runs right down the length of the valley. Our first stop in a small quarry, which acted as a sun trap and produced some splendid, fresh specimens of Chalkhill and Woodland Grayling, in addition to Silver-studded Blue, Silver-washed Fritillary, Small White and Chestnut Heath butterflies. As we progressed, following the stream through woodland, a ledge produced both *Allium flavum* (a Yellow Onion) and *Sempervirens marmoreum* (a Houseleek). Great Banded Grayling, Common Glider and Speckled Wood butterflies were also quiet numerous. Further on, woodland gave way to meadows, where the local farmer was cutting the hay, so it was not so good for butterfly species here! The marginal vegetation of the meadows comprised mainly of *Dipsacus pilosus* (Small Teasel), *Aethusa cynapium* (Fool's Parsley), *Sambucus ebulus* (Dwarf Elder) and *Tanacetum vulgare* (Fansy), the latter two proving irresistible to large numbers of Silver-washed Fritillaries and Duke of Burgundy Fritillary. Several good, but distant, views were had of apparently migrating Common Buzzard and European Honey Buzzard. A little further on, Gerard found the elusive White-backed Woodpecker, and all group members got reasonable views, but all clearly heard it drumming. Gerard explained the way this particular Woodpecker strips the bark from dead trees in search of beetle grubs, and pointed out several examples.

We now began to make our way back to the vehicle. When we got back to the bus, we had our picnic lunch before moving on to make a return visit to the Hor reservoir. Once again there were good numbers of birds to be seen. Numerous Grey Herons were interspersed with half a dozen Black Storks, Great Cormorant, Black-winged Stilt, Common Greenshank, Northern Shoveler and Eurasian Teal. As we were leaving to return to the hotel, a Eurasian Sparrowhawk glided over the bus.

Day 8

Tuesday 12th August

Weather: Cloudy and humid with a light shower, becoming fine, hot and sunny.

The early bird walk added views of Grey-headed Woodpecker which meant the group had now seen all the possible Woodpeckers. Paul had not set a moth trap the previous night, but did find Fern, Willow Beauty, Yellow Shell and Jersey Tiger roosting near the hotel lights.

Following another spoilt-for-choice breakfast, it was time to set off to Budapest. We thanked Barbara and her family, our wonderful hosts at the Nomad Hotel, and began our unrushed journey to the airport. During a break along the way, we had close views of Crested Lark and distant views of two Eastern Imperial Eagles.

At Budapest Ferenc Liszt International Airport, we said our farewells to Diana and Michael, who were staying on in the capital for a couple of days, as well as Gerard and Attila, before checking in for our British Airways flight BA867 to Heathrow.

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Black V Moth - *Arctomis l-nigrum*

Species Lists

Plants

Scientific name	Common name	Location
Leptosporangiate Ferns		
True Ferns		
Salviniaceae		
<i>Salvinia natans</i>	Water-fern Family Floating Fern	Hortobagy
Pre-Dicots		
Primitive Angiosperms		
Aristolochiaceae		
<i>Aristolochia clematitis</i>	Birthwort Family Birthwort	Hor Valley
<i>Asarum europaeum</i>	Asarabacca	Hor Valley
Nymphaeaceae		
<i>Nuphar lutea</i>	Water-lily Family Yellow Water-lily	Egyek 'Ox-bow Lake'
Eu-Dicots		
True Dicotyledons		
Adoxaceae		
<i>Sambucus ebulus</i>	Moschatel Family Dwarf Elder	N of Tiszababolna
<i>Sambucus nigra</i>	Elder	Near Tard
<i>Viburnum lantana</i>	Wayfaring-tree	Hor Valley
Amaranthaceae		
<i>Amaranthus bouchonii</i>	Pigweed Family -	Hor Valley
<i>Amaranthus hybridus</i>	Green Pigweed	Hor Reservoir
<i>Amaranthus patulus</i>	-	Hor Valley
<i>Chenopodium album</i>	Fat-hen	Hor Reservoir
<i>Chenopodium glaucum</i>	Oak-leaved Goosefoot	Horgaszto Fish Farm
<i>Salsola kali</i>	Prickly Saltwort	Fulophasza Bio. Reserve
Anacardiaceae		
<i>Rhus typhina</i>	Sumach Family Stag's-horn Sumach	Hor Valley
Apiaceae		
<i>Bupleurum falcatum</i>	Carrot Family Sickle-leaved Hare's-ear	Hor Valley
<i>Bupleurum tenuissimum</i>	Narrow-leaved Hare's-ear	Baba Szek Salt Lake
<i>Eryngium campestre</i>	Field Eryngo	S of Bugyi
<i>Daucus carota</i>	Wild Carrot	Tarley Major, near Jaraspuszta
<i>Pastinaca sativa</i>	Wild Parsnip	Hortobagy
<i>Torilis japonica</i>	Upright Hedge-parsley	N of Cserepfalu
Asclepiadaceae		
<i>Asclepias syriaca</i>	Milkweed Family -	Fulophasza Bio. Reserve
Asteraceae		
<i>Achillea millefolium</i>	Daisy Family Yarrow	Tarley Major, near Jaraspuszta
<i>Ambrosia artemisiifolia</i>	Ragweed	Fulophasza Bio. Reserve
<i>Arctium tomentosum</i>	-	Hortobagy
<i>Artemisia maritima</i>	Sea Wormwood	Salt Lake, Balmazuivaros
<i>Artemisia vulgaris</i>	Mugwort	Hortobagy
<i>Bidens frondosa</i>	Beggarticks	Lake Tisza, NE of Poroszlo

Scientific name	Common name	Location
<i>Carduus crispus</i>	Wetted Thistle	Hortobagy
<i>Cichorium intybus</i>	Chicory	Tarley Major, near Jaraspuszta
<i>Conyza canadensis</i>	Canadian Fleabane	Tarley Major, near Jaraspuszta
<i>Crepis foetida subsp. rhoeadifolia</i>	a Hawksbeard	Fulophasza Bio. Reserve
<i>Echinops ruthenicus</i>	a Globe Thistle	Fulophasza Bio. Reserve
<i>Erigeron annuus</i>	-	Lake Tisza, NE of Poroszlo
<i>Mycelis muralis</i>	Wall Lettuce	Hor Valley
<i>Onopordum acanthium</i>	Cotton Thistle	Tarley Major, near Jaraspuszta
<i>Solidago virgaurea</i>	Goldenrod	N of Cserepfalu
<i>Sonchus arvensis</i>	Sow-thistle	Hortobagy
<i>Tanacetum vulgare</i>	Tansy	Egyek Ox-bow Lake
<i>Telekia speciosa</i>	-	Hor Valley
<i>Xanthium spinosum</i>	Spiny Cocklebur	N of Cserepfalu
Berberidaceae	Barberry Family	
<i>Berberis vulgaris</i>	Barberry	Fulophasza Bio. Reserve
Betulaceae	Birch Family	
<i>Carpinus betulus</i>	Hornbeam	Hor Valley
<i>Corylus avellana</i>	Hazel	Hor Valley
Boraginaceae	Borage Family	
<i>Anchusa arvensis</i>	Bugloss	
<i>Echium vulgare</i>	Viper's Bugloss	S of Bugyi
<i>Lappula squarosa</i>	Bur Forget-me-not	S of Bugyi
<i>Myosotis scorpioides</i>	Water Forget-me-not	Hortobagy
Brassicaceae	Cabbage Family	
<i>Berteroa incana</i>	Hoary Alison	S of Bugyi
<i>Descurainia sophia</i>	Flixweed	S of Bugyi
<i>Thlaspi arvensis</i>	Field Pennywort	Hor Reservoir
Campanulaceae	Bellflower Family	
<i>Campanula persicaria</i>	Peach-leaved Bellflower	N of Cserepfalu
<i>Campanula rotundifolium</i>	Harebell	N of Cserepfalu
<i>Campanula trachelium</i>	Nettle-leaved Bellflower	Hor Valley
Caprifoliaceae	Honeysuckle family	
<i>Dipsacus laciniatus</i>	Cut-leaved Teasel	Hortobagy
<i>Dipsacus pilosus</i>	Small Teasel	Hor Valley
<i>Knautia arvensis</i>	Field Scabious	Hor Valley
<i>Scabiosa ochroleuca</i>	Yellow Scabious	Baba Szek Salt Lake
Caryophyllaceae	Pink Family	
<i>Cerastium arvense</i>	Field Mouse-ear	Tarley Major, near Jaraspuszta
<i>Dianthus arenarius</i>	-	Fulophasza Bio. Reserve
<i>Dianthus armeria</i>	Deptford Pink	Bogacs (old Cinema)
<i>Saponaria officinalis</i>	Soapwort	S of Cserepfalu
<i>Silene baccifera</i>	Berry Catchfly	S of Cserepfalu
<i>Silene latifolia</i>	White Campion	Tarley Major, near Jaraspuszta
<i>Silene otites</i>	Spanish Catchfly	Tarley Major, near Jaraspuszta
Cistaceae	Cistus Family	
<i>Fumana ericoides</i>	a Fumana	Fulophasza Bio. Reserve
Convolvulaceae	Bindweed Family	
<i>Convolvulus arvensis</i>	Field Bindweed	S of Bugyi

Scientific name	Common name	Location
Cornaceae <i>Cornus sanguineus</i>	Dogwood Family Dogwood	Hor Valley
Crassulaceae <i>Sempervivum marmoreum</i>	Stonecrop Family a Houseleek	Hor Valley
Elaeagnaceae <i>Elaeagnus angustifolius</i>	Sea-buckthorn Family Russian Olive	Tarley Major, near Jaraspuszta
Euphorbiaceae <i>Euphorbia cyparissias</i> <i>Euphorbia paralias</i>	Spurge Family Cypress Spurge Sea Spurge	Hortobagy Fulophasza Bio. Reserve
Fabaceae <i>Gleditsia triacanthos</i> <i>Glycyrrhiza echinata</i> <i>Lathyrus tuberosus</i> <i>Lotus corniculatus</i> <i>Lotus tenuis</i> <i>Medicago lupulina</i> <i>Medicago sativa subsp. sativa</i> <i>Melilotus albus</i> <i>Ononis arvensis</i> <i>Robinia pseudacacia</i> <i>Trifolium arvense</i> <i>Trifolium fragiferum</i> <i>Trifolium repens</i>	Pea family Honey Locust - Tuberous Pea Bird's-foot Trefoil Narrow-leaved Bird's-foot T. Black Medick Lucerne White Melilot a Restharrow False Acacia Hare's-foot Clover Strawberry Clover White Clover	Lake Tisza, NE of Poroszlo Lake Tisza, NE of Poroszlo Egyek Ox-bow Lake Hortobagy Hortobagy Tarley Major, near Jaraspuszta Salt Lake, Balmazuivaros Tarley Major, near Jaraspuszta Tarley Major, near Jaraspuszta Kiskunshag Hortobagy Tarley Major, near Jaraspuszta Hor Reservoir
Geraniaceae <i>Erodium cicutarium</i>	Geranium Family Common Stork's-bill	S of Bugyi
Grossulariaceae <i>Ribes uva-crispa</i>	Gooseberry Family Gooseberry	Fulophasza Bio. Reserve
Juglandaceae <i>Juglans regia</i>	Walnut Family Walnut	Planted
Lamiaceae <i>Ballota nigra</i> <i>Clinopodium vulgare</i> <i>Galeopsis tetrahit agg.</i> <i>Lycopus europaeus</i> <i>Mentha aquatica</i> <i>Mentha longifolia</i> <i>Mentha pulegium</i> <i>Origanum vulgare</i> <i>Salvia nemorosa</i> <i>Stachys palustris</i>	Mint family Black Horehound Wild Basil Common Hemp-nettle Gypsywort Water Mint Horse Mint Pennyroyal Marjoram Woodland Sage Marsh Woundwort	Hortobagy Fulophasza Bio. Reserve Hor Valley Lake Tisza, NE of Poroszlo Hortobagy Hor Valley Tarley Major, near Jaraspuszta Hor Valley S of Bugyi Hor Valley
Linaceae <i>Linum perenne agg.</i>	Flax Family Perennial Flax	Horgaszto Fish Farm
Lentibulariaceae <i>Utricularia australis</i>	Bladderwort Family a Bladderwort	Horgaszto Fish Farm

Scientific name	Common name	Location
Lythraceae	Purple-loosestrife Family	
<i>Lythrum salicaria</i>	Purple-loosestrife	Hortobagy
<i>Lythrum virgatum</i>	-	Lake Tisza, NE of Poroszlo
<i>Trapa natans</i>	Water Caltrop	Hortobagy
Malvaceae	Mallow Family	
<i>Althaea officinalis</i>	Marsh-mallow	Tarley Major, near Jaraspuszta
<i>Hibiscus trionum</i>	Bladder Ketmia	NE of Cserepfalu
<i>Tilia cordata</i>	Small-leaved Lime	NE of Cserepfalu
<i>Tilia platyphyllos</i>	Broad-leaved Lime	Hor Valley
Oleaceae	Olive Family	
<i>Fraxinus excelsior</i>	Ash	Hortobagy
Onagraceae	Willowherb Family	
<i>Circaea lutetiana</i>	Enchanter's-nightshade	Hor Valley
Orobanchaceae	Broomrape Family	
<i>Melampyrum nemorosum</i>	Wood Cow-wheat	Hor Valley
Papaveraceae	Poppy Family	
<i>Chelidonium majus</i>	Greater Celandine	Hor Valley
Plantaginaceae	Plantain Family	
<i>Linaria vulgaris</i>	Common Toadflax	Lake Tisza, NE of Poroszlo
<i>Plantago arenaria</i>	Branched Plantain	Fulophasza Bio. Reserve
<i>Plantago coronopus</i>	Buck's-horn Plantain	Tarley Major, near Jaraspuszta
<i>Plantago indica</i>	-	S of Bugyi
<i>Veronica anagallis-aquatica</i>	Blue Water Speedwell	Hortobagy
Plumbaginaceae	Thrift Family	
<i>Limonium gmelinii</i> subsp. <i>hungaricum</i>	a Sea-lavender	S of Bugyi
Polygonaceae	Knotweed Family	
<i>Persicaria hydropiper</i>	Water-pepper	Hortobagy
<i>Persicaria lapathifolia</i>	Pale Persicaria	Hor Reservoir
<i>Polygonum aviculare</i>	Knotgrass	Hortobagy
<i>Polygonum bellardii</i>	-	Fulophasza Bio. Reserve
<i>Rumex hydrolapathum</i>	Water Dock	Hortobagy
Ranunculaceae	Buttercup Family	
<i>Consolida regalis</i>	Forking Larkspur	S of Bugyi
Roseaceae	Rose Family	
<i>Agrimonia eupatoria</i>	Agrimony	Hortobagy
<i>Crataegus monogyna</i>	Hawthorn	Hortobagy
<i>Geum urbanum</i>	Wood Avens	Hor Valley
<i>Potentilla argentea</i>	Hoary Cinquefoil	S of Bugyi
<i>Prunus domestica</i> subsp. <i>syriaca</i>	a Wild Plum	Lake Tisza, NE of Poroszlo
<i>Prunus spinosus</i>	Blackthorn	Hortobagy
<i>Rubus caesius</i>	Dewberry	N of Cserepfalu
Rubiaceae	Bedstraw Family	
<i>Galium verum</i>	Lady's Bedstraw	Tarley Major, near Jaraspuszta
Salicaceae	Willow Family	
<i>Populus alba</i>	White Poplar	Fulophasza Bio. Reserve

Scientific name	Common name	Location
<i>Salix alba</i>	White Willow	Lake Tisza, NE of Poroszló
Sapindaceae	Maple Family	
<i>Acer campestre</i>	Field Maple	N of Cserepfalu
<i>Acer platanoides</i>	Norway Maple	Hor Valley
<i>Acer pseudoplatanus</i>	Sycamore	Hor Valley
Scrophulariaceae	Figwort Family	
<i>Verbascum blattaria</i>	Moth Mullein	Salt Lake, Balmazúvaros
<i>Verbascum nigrum</i>	Dark Mullein	Hortobágy
<i>Verbascum phlomoides</i>	Orange Mullein	Tarley Major, near Jaraspuszta
<i>Verbascum phoeniceum</i>	Purple Mullein	Hortobágy
Solanaceae	Nightshade Family	
<i>Datura stramonium</i>	Thorn-apple	Hor Reservoir
Ulmaceae	Elm Family	
<i>Ulmus glabra</i>	Wych Elm	Hor Valley
Urticaceae	Nettle Family	
<i>Parietaria officinalis</i>	Eastern Pellitory-of-the-Wall	Hor Valley
Verbenaceae	Vervain Family	
<i>Verbena officinalis</i>	Vervain	Tarley Major, near Jaraspuszta
Vitaceae	Grape-vine Family	
<i>Vitis vinifera</i>	Grape-vine	N of Cserepfalu
Monocots	Monocotyledons	
Amaryllidaceae	Daffodil Family	
<i>Allium flavum</i>	Yellow Onion	Hor Valley
Araceae	Lords-and-Ladies Family	
<i>Arum maculatum</i>	Lords-and-Ladies	Hor Valley
Cyperaceae	Sedge Family	
<i>Bolboschoenus maritimus</i>	Sea Clubrush	Tarley Major, near Jaraspuszta
<i>Scirpoides holoschoenus</i>	Round-headed Clubrush	Hortobágy
<i>Scirpus sylvaticus</i>	Wood Club-rush	Hor Valley
Hydrocharitaceae	Frogbit Family	
<i>Hydrocharis morsus-ranae</i>	Frogbit	Horgaszto Fish Farm
<i>Stratiotes aloides</i>	Water-soldier	Egyek Ox-bow Lake
Poaceae	Grass Family	
<i>Bothriochloa ischaemum</i>	-	Baba Szek Salt Lake
<i>Cenchrus incertus</i>	-	Fulophasza Bio. Reserve
<i>Cynodon dactylon</i>	Bermuda Grass	Tarley Major, near Jaraspuszta
<i>Echinochloa crus-galli</i>	Cockspur	Egyek Ox-bow Lake
<i>Hordeum marinum</i>	Sea barley	Hortobágy
<i>Phragmites australis</i>	Common Reed	Hortobágy
<i>Saccharum sp.</i>	Sugar Cane	NE of Cserepfalu
<i>Setaria pumila</i>	Yellow Bristle-grass	Egyek Ox-bow Lake
<i>Stipa lanata</i>	a Feather-grass	Fulophasza Bio. Reserve
<i>Stipa pennata</i>	a Feather-grass	S of Bugyi
<i>Tragus racemosus</i>	-	Fulophasza Bio. Reserve

Scientific name	Common name	Location
Potamogetaceae	Pondweed Family	
<i>Potamogeton natans</i>	Broad-leaved Pondweed	Hortobagy
Typhaceae	Bulrush Family	
<i>Sparganium erectum</i>	Branched Bur-reed	Hortobagy
<i>Typha angustifolia</i>	Lesser Bulrush	Salt Lake, Balmazuivaros
<i>Typha latifolia</i>	Bulrush	Salt Lake, Balmazuivaros

Birds (✓ = recorded but not counted; H = heard only)

	Common name	Scientific name	August									
			5	6	7	8	9	10	11	12		
1	Common Pheasant	<i>Phasianus colchicus</i>	✓	✓	✓	✓	✓				✓	
2	Greylag Goose	<i>Anser anser</i>		✓	✓	✓						
3	Mute Swan	<i>Cygnus olor</i>			✓							
4	Mallard	<i>Anas platyrhynchos</i>		✓	✓	✓	✓	✓	✓	✓		
5	Northern Shoveler	<i>Anas clypeata</i>								✓		
6	Garganey	<i>Anas querquedula</i>		✓								
7	Eurasian Teal	<i>Anas crecca</i>		✓						✓		
8	Ferruginous Duck	<i>Aythya nyroca</i>			✓			✓				
9	Little Grebe	<i>Tachybaptus ruficollis</i>						✓				
10	Great Crested Grebe	<i>Podiceps cristatus</i>			✓							
11	Black Stork	<i>Ciconia nigra</i>			✓	✓	✓			✓		
12	White Stork	<i>Ciconia ciconia</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
13	Eurasian Spoonbill	<i>Platalea leucorodia</i>						✓				
14	Black-crowned Night Heron	<i>Nycticorax nycticorax</i>		✓								
15	Squacco Heron	<i>Ardeola ralloides</i>			✓							
16	Grey Heron	<i>Ardea cinerea</i>	✓		✓	✓	✓			✓		
17	Purple Heron	<i>Ardea purpurea</i>	✓	✓	✓	✓	✓				✓	
18	Great Egret	<i>Ardea alba</i>			✓	✓	✓					
19	Pygmy Cormorant	<i>Microcarbo pygmeus</i>			✓							
20	Great Cormorant	<i>Phalacrocorax carbo</i>			✓	✓	✓			✓		
21	European Honey Buzzard	<i>Pernis apivorus</i>						✓		✓		
22	White-tailed Eagle	<i>Haliaeetus albicilla</i>						✓				
23	Short-toed Snake Eagle	<i>Circaetus gallicus</i>								✓		
24	Western Marsh Harrier	<i>Circus aeruginosus</i>	✓	✓	✓	✓	✓	✓	✓	✓		
25	Eurasian Sparrowhawk	<i>Accipiter nisus</i>		✓	✓			✓	✓	✓		
26	Common Buzzard	<i>Buteo buteo</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓	
27	Lesser Spotted Eagle	<i>Aquila pomarina</i>							✓			
28	Eastern Imperial Eagle	<i>Aquila heliaca</i>	✓							✓	✓	
29	Common Kestrel	<i>Falco tinnunculus</i>	✓	✓	✓	✓	✓					
30	Red-footed Falcon	<i>Falco vespertinus</i>		✓		✓						
31	Eurasian Hobby	<i>Falco subbuteo</i>				✓						
32	Saker Falcon	<i>Falco cherrug</i>				✓	✓					
33	Great Bustard	<i>Otis tarda</i>	✓									
34	Water Rail	<i>Rallus aquaticus</i>			H							
35	Little Crake	<i>Porzana parva</i>			✓							
36	Common Moorhen	<i>Gallinula chloropus</i>			✓		✓					

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	
37	Eurasian Coot	<i>Fulica atra</i>			✓						
38	Common Crane	<i>Grus grus</i>				✓	✓				
39	Black-winged Stilt	<i>Himantopus himantopus</i>								✓	
40	Northern Lapwing	<i>Vanellus vanellus</i>	✓	✓		✓	✓			✓	
41	Little Ringed Plover	<i>Charadrius dubius</i>					✓			✓	
42	Black-tailed Godwit	<i>Limosa limosa</i>					✓				
43	Eurasian Curlew	<i>Numenius arquata</i>		✓		✓					
44	Spotted Redshank	<i>Tringa erythropus</i>		✓							
45	Common Greenshank	<i>Tringa nebularia</i>					✓			✓	
46	Wood Sandpiper	<i>Tringa glareola</i>					✓				
47	Common Sandpiper	<i>Actitis hypoleucos</i>					✓	✓		✓	
48	Curlew Sandpiper	<i>Calidris ferruginea</i>					✓				
49	Ruff	<i>Philomachus pugnax</i>					✓				
50	Black-headed Gull	<i>Chroicocephalus ridibundus</i>	✓		✓		✓			✓	
51	Yellow-legged Gull	<i>Larus michahellis</i>	✓	✓	✓	✓	✓			✓	
52	Whiskered Tern	<i>Chlidonias hybrida</i>			✓		✓				
53	Common Pigeon	<i>Columba livia 'feral'</i>	✓	✓	✓	✓	✓	✓	✓	✓	
54	Stock Dove	<i>Columba oenas</i>								H	
55	Common Wood Pigeon	<i>Columba palumbus</i>	✓	✓	✓	✓	✓	✓	✓	✓	
56	European Turtle Dove	<i>Streptopelia turtur</i>	✓	✓	✓		✓	✓	✓	✓	
57	Eurasian Collared Dove	<i>Streptopelia decaocto</i>	✓	✓	✓	✓	✓	✓	✓	✓	
58	Tawny Owl	<i>Strix aluco</i>					H				
59	Long-eared Owl	<i>Asio otus</i>					✓				
60	Little Owl	<i>Athene noctua</i>	H	H	H						
61	Common Swift	<i>Apus apus</i>	✓								
62	European Roller	<i>Coracias garrulus</i>	✓	✓	✓	✓	✓				
63	Common Kingfisher	<i>Alcedo atthis</i>			✓	✓				✓	
64	European Bee-eater	<i>Merops apiaster</i>	✓	✓	✓	✓	✓	✓	✓		
65	Eurasian Hoopoe	<i>Upupa epops</i>	✓	✓	✓	✓	✓				
66	Lesser Spotted Woodpecker	<i>Dendrocopos minor</i>					✓				
67	Middle Spotted Woodpecker	<i>Dendrocopos medius</i>						✓	✓	H	
68	White-backed Woodpecker	<i>Dendrocopos leucotos</i>							✓		
69	Syrian Woodpecker	<i>Dendrocopos syriacus</i>				✓					
70	Great Spotted Woodpecker	<i>Dendrocopos major</i>		✓	✓	✓	✓	✓	✓	✓	
71	Black Woodpecker	<i>Dryocopus martius</i>					✓	✓	✓		
72	European Green Woodpecker	<i>Picus viridis</i>		✓			✓			H	
73	Grey-headed Woodpecker	<i>Picus canus</i>							H	H	
74	Red-backed Shrike	<i>Lanius collurio</i>	✓	✓	✓	✓	✓	✓	✓		
75	Lesser Grey Shrike	<i>Lanius minor</i>	✓			✓	✓				
76	Eurasian Golden Oriole	<i>Oriolus oriolus</i>	✓	✓	✓	✓	✓			✓	
77	Eurasian Jay	<i>Garrulus glandarius</i>						✓	✓	✓	
78	Eurasian Magpie	<i>Pica pica</i>	✓	✓	✓	✓	✓	✓	✓	✓	
79	Western Jackdaw	<i>Coloeus monedula</i>		✓		✓					
80	Rook	<i>Corvus frugilegus</i>		✓	✓	✓	✓				
81	Hooded Crow	<i>Corvus cornix</i>	✓	✓	✓	✓	✓			✓	
82	Northern Raven	<i>Corvus corax</i>		✓	✓		✓	✓	✓	✓	

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	
83	Marsh Tit	<i>Poecile palustris</i>							✓	✓	
84	Great Tit	<i>Parus major</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
85	Eurasian Blue Tit	<i>Cyanistes caeruleus</i>			✓	✓	✓	✓	✓		
86	Eurasian Penduline Tit	<i>Remiz pendulinus</i>			✓	H					
87	Crested Lark	<i>Galerida cristata</i>			✓	✓					✓
88	Eurasian Skylark	<i>Alauda arvensis</i>						✓			
89	Sand Martin	<i>Riparia riparia</i>	✓		✓	✓					
90	Barn Swallow	<i>Hirundo rustica</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
91	Common House Martin	<i>Delichon urbicum</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
92	Long-tailed Tit	<i>Aegithalos caudatus</i>				✓			✓	✓	
93	Willow Warbler	<i>Phylloscopus trochilus</i>							✓	✓	
94	Common Chiffchaff	<i>Phylloscopus collybita</i>		✓		✓			✓	✓	
95	Wood Warbler	<i>Phylloscopus sibilatrix</i>				✓					
96	Great Reed Warbler	<i>Acrocephalus arundinaceus</i>						✓			
97	Sedge Warbler	<i>Acrocephalus schoenobaenus</i>			✓						
98	Eurasian Reed Warbler	<i>Acrocephalus scirpaceus</i>			✓	✓					
99	Savi's Warbler	<i>Locustella luscinioides</i>			✓						
100	Eurasian Blackcap	<i>Sylvia atricapilla</i>						✓		✓	
101	Lesser Whitethroat	<i>Sylvia curruca</i>			✓	✓					
102	Eurasian Wren	<i>Troglodytes troglodytes</i>							H	H	
103	Eurasian Nuthatch	<i>Sitta europaea</i>		✓		✓	✓	✓	✓	✓	✓
104	Short-toed Treecreeper	<i>Certhia brachydactyla</i>				✓					
105	Common Starling	<i>Sturnus vulgaris</i>	✓	✓	✓	✓	✓	✓	✓	✓	
106	Common Blackbird	<i>Turdus merula</i>			✓		✓	✓	✓	✓	✓
107	Song Thrush	<i>Turdus philomelos</i>								✓	
108	European Robin	<i>Erithacus rubecula</i>						✓		✓	
109	Common Nightingale	<i>Luscinia megarhynchos</i>						H	H		
110	Black Redstart	<i>Phoenicurus ochruros</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
111	Common Redstart	<i>Phoenicurus phoenicurus</i>				✓	✓			✓	
112	European Stonechat	<i>Saxicola rubicola</i>		✓	✓	✓	✓				
113	Northern Wheatear	<i>Oenanthe oenanthe</i>		✓							
114	Spotted Flycatcher	<i>Muscicapa striata</i>		✓	✓	✓	✓	✓	✓		✓
115	House Sparrow	<i>Passer domesticus</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
116	Eurasian Tree Sparrow	<i>Passer montanus</i>		✓	✓	✓	✓	✓	✓	✓	✓
117	Blue-headed Yellow Wagtail	<i>Motacilla flava flava</i>		✓	✓	✓	✓			✓	
118	Grey Wagtail	<i>Motacilla cinerea</i>								✓	
119	White Wagtail	<i>Motacilla alba</i>	✓	✓	✓	✓	✓	✓	✓	✓	
120	Common Chaffinch	<i>Fringilla coelebs</i>		✓	✓	✓	✓	✓	✓	✓	
121	European Serin	<i>Serinus serinus</i>		✓	✓						
122	European Greenfinch	<i>Carduelis chloris</i>	✓		✓	✓	✓	✓	✓	✓	
123	European Goldfinch	<i>Carduelis carduelis</i>	✓	✓	✓	✓	✓	✓	✓	✓	✓
124	Common Linnet	<i>Carduelis cannabina</i>	✓	✓	✓		✓			✓	
125	Hawfinch	<i>Coccothraustes coccothraustes</i>							✓	✓	
126	Corn Bunting	<i>Emberiza calandra</i>		✓		✓	✓				
127	Yellowhammer	<i>Emberiza citrinella</i>								✓	
128	Common Reed Bunting	<i>Emberiza schoeniclus</i>			✓						

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	

Mammals (D = dead)

1	Red Fox	<i>Vulpes vulpes</i>				D				
2	European Roe Deer	<i>Capreolus capreolus</i>	✓		✓	✓				
3	European Hare	<i>Lepus europaeus</i>		✓	✓	✓	✓		✓	
4	Red Squirrel	<i>Sciurus vulgaris</i>					✓	✓		
5	European Sousek	<i>Spermophilus citellus</i>	✓	✓		✓				
6	Vole Sp.	<i>Arvicolinae Sp.</i>					✓			

Amphibians & Reptiles

1	Fire-bellied Toad	<i>Bombina bombina</i>		✓		✓				
2	Green Toad	<i>Bufo viridis</i>		✓						
3	Common Tree Frog	<i>Hyla arborea</i>					H			
4	Common Frog	<i>Rana temporaria</i>			✓	✓	✓			
5	Agile Frog	<i>Rana dalmatina</i>				✓				
6	Edible Frog	<i>Rana kl. esculenta</i>			✓	✓	✓			
7	Marsh Frog	<i>Rana ridibundus</i>				✓				
8	Sand Lizard	<i>Lacerta agilis</i>	✓		✓	✓				
9	Common Wall Lizard	<i>Podarcis muralis</i>							✓	

Butterflies

1	Swallowtail	<i>Papilio machaon</i>				✓	✓			
2	Scarce Swallowtail	<i>Iphiclides podalirius</i>				✓		✓	✓	
3	Large White	<i>Pieris brassicae</i>				✓	✓	✓	✓	
4	Small White	<i>Artogeia rapae</i>	✓	✓	✓	✓	✓	✓	✓	✓
5	Green-veined White	<i>Artogeia napi</i>						✓	✓	
6	Eastern Bath White	<i>Pontia edusa</i>	✓		✓	✓	✓			
7	Pale Clouded Yellow	<i>Colias hyale</i>					✓		✓	
8	Clouded Yellow	<i>Colias crocea</i>	✓			✓		✓	✓	
9	Eastern Pale Clouded Yellow	<i>Colias erate</i>			✓	✓	✓			
10	Wood White	<i>Leptidea sinapis</i>						✓	✓	
11	Scarce Copper	<i>Lycaena vigeureae</i>	✓							
12	Sooty Copper	<i>Lycaena tityrus</i>					✓			
13	Short-tailed Blue	<i>Everes argiades</i>						✓	✓	
14	Eastern Short-tailed Blue	<i>Everes decoloratus</i>					✓	✓		
15	Little Blue	<i>Cupido minimus</i>	✓	✓	✓		✓	✓	✓	
16	Holly Blue	<i>Celastrina argiolus</i>			✓			✓		
17	Silver-studded Blue	<i>Plebejus argus</i>		✓	✓	✓	✓	✓	✓	
18	Brown Argus	<i>Aricia agestis</i>						✓	✓	
19	Chalk-hill Blue	<i>Lysandra coridon</i>	✓						✓	
20	Common Blue	<i>Polyommatus icarus</i>			✓	✓	✓	✓	✓	
21	Duke of Burgundy Fritillary	<i>Hamearis lucin</i>						✓	✓	
22	Lesser Purple Emperor	<i>Apatura ilia</i>			✓		✓	✓	✓	
23	White Admiral	<i>Limenitis camilla</i>							✓	
24	Common Glider	<i>Neptis sappho</i>						✓	✓	
25	Red Admiral	<i>Vanessa atalanta</i>			✓	✓	✓	✓	✓	

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	
26	Painted Lady	<i>Vanessa cardui</i>	✓	✓					✓	✓	
27	Comma Butterfly	<i>Polygonum c-album</i>						✓	✓	✓	
28	Map Butterfly	<i>Araschnia levana</i>							✓	✓	
29	Silver-washed Fritillary	<i>Argynnis paphia</i>							✓	✓	
30	Dark Green Fritillary	<i>Argynnis aglaja</i>							✓	✓	
31	Queen of Spain Fritillary	<i>Issoria lathonia</i>							✓	✓	
32	Weaver's Fritillary	<i>Clossiana dia</i>							✓		
33	Woodland Grayling	<i>Hipparchia fagi</i>		✓						✓	
34	Dryad	<i>Minois dryas</i>		✓					✓	✓	
35	Great Banded Grayling	<i>Kanetisa circe</i>							✓	✓	
36	Meadow Brown	<i>Maniola jurtina</i>		✓	✓	✓	✓	✓	✓	✓	
37	Small Heath	<i>Coenonympha pamphilus</i>	✓		✓	✓			✓	✓	
38	Chestnut Heath	<i>Coenonympha glycerion</i>	✓	✓	✓	✓	✓	✓	✓	✓	
39	Speckled Wood	<i>Pararge aegeria</i>								✓	
40	Mallow Skipper	<i>Carcharodus alceae</i>						✓			
41	Essex Skipper	<i>Thymelicus lineola</i>				✓					
42	Small Skipper	<i>Thymelicus sylvestris</i>	✓	✓					✓	✓	
43	Silver-spotted Skipper	<i>Hesperia comma</i>								✓	
44	Large Skipper	<i>Ochlodes venatus</i>							✓		

Micro Moths (T = Trap; F = Field record)

1	Oecophorid	<i>Batia lambdella</i>				T				
2	Elachistid	<i>Ethmia bipunctata</i>		T						
3	Coleophorid	<i>Coleophora albitarsella</i>								T
4	Tortrix	<i>Agapeta zoegana</i>		T						T
5	Large Fruit Tree Tortrix	<i>Archips podana</i>				T				
6	Dark Fruit Tree Tortrix	<i>Pandemis heparana</i>			T					
7	Light-brown Apple Tortrix	<i>Epiphyas postvittana</i>		T						
8	Tortrix	<i>Hedya salicella</i>							T	
9	Tortrix	<i>Epiblema foenella</i>		T						
10	Codlin Moth	<i>Cydia pomonella</i>								T
11	Bramble-shoot Moth	<i>Notocelia uddmanniana</i>								T
12	Gold Triangle	<i>Hypsopygia costalis</i>			T	T				
13	Pyralid	<i>Oncocera semirubella</i>								T
14	Pyralid	<i>Dioryctria abietella</i>		T						
15	Pyralid	<i>Assara terebrella</i>				T				
16	Pyralid	<i>Endotricha flammealis</i>		T			T	T	T	F
17	Pyralid	<i>Sciota adelphella</i>				T				
18	Pyralid	<i>Endotricha flammealis</i>		T			T	T	T	F
19	Crambid	<i>Crambus perlella</i>		T				F	F	
20	Crambid	<i>Catoptria falsella</i>			T					
21	Crambid	<i>Agriphila staminella</i>			T					
22	Crambid	<i>Agriphila inquinatella</i>							T	
23	Crambid	<i>Calamotropha paludella</i>			T		T			
24	Garden Grass Veneer	<i>Chrysoteuchia culmella</i>		F			F	T		
25	Crambid	<i>Crambus pascuella</i>				T				

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			5	6	7	8	9	10	11	12	
26	Crambid	<i>Crambus perlella</i>							F		
27	European Crambid	<i>Ecpyrrhorrhoe rubiginalis</i>		T							
28	Brown China-mark	<i>Elophila nymphaeata</i>						T			
29	Small China-mark	<i>Cataclysta lemnaea</i>			F			T			
30	Ringed China-mark	<i>Parapoynx stratiotata</i>			T/F						
31	European Corn-borer	<i>Ostrinia nubilalis</i>		T	T/F	T	T	T	T	F/T	
32	Mother of Pearl	<i>Pleuroptya ruralis</i>						T			

Macro Moths

1	Oak Hook-tip	<i>Watsonalla binaria</i>		T							
2	Buff Arches	<i>Habrosyne pyritoides</i>						T			
3	Figure of Eighty	<i>Tethea ocellaris octogesimea</i>			T						
4	Clay Triple-lines	<i>Cyclophora linearia</i>				T					
5	Blood-vein	<i>Timandra comae</i>			T					T	
6	Small Blood-vein	<i>Scopula imitaria</i>				T					
7	Rose-banded Wave	<i>Rhodostrophia vibicaria</i>			T					T	T
8	Lesser Cream Wave	<i>Scopula immutata</i>				T					
9	Mullein Wave	<i>Scopula marginepunctata</i>		T							
10	European Geometrid	<i>Lythria purpuraria</i>			T						
11	Purple-bordered Gold	<i>Idaea muricata f. auroraria</i>				T	T				
12	Least Carpet	<i>Idaea rusticata atosignaria</i>		T	F				T/F		
13	Single-dotted Wave	<i>Idaea dimidiata</i>				F	T				
14	Riband Wave	<i>Idaea aversata</i>				T	T	T	T		
15	Portland Riband Wave	<i>Idaea degeneraria</i>			F	T	T				
16	Oblique Striped	<i>Phibalapteryx virgata</i>		T							
17	European Geometrid	<i>Coastaconvexa polygrammata</i>				T					
18	Fern	<i>Horisme tersata</i>			T				T		T
19	Yellow Shell	<i>Campptogramma bilineata</i>					T				T
20	Clouded Border	<i>Lomaspilis marginata</i>				T					
21	Scorched Carpet	<i>Ligdia adustata</i>							T		
22	European Geometrid	<i>Stegania dilectaria</i>							T		
23	Peacock	<i>Macaria notata</i>		T							
24	Sharp-angled Peacock	<i>Macaria alternata</i>		T	T						
25	Latticed Heath	<i>Chiasmia clathrata</i>		T	T				T		
26	European Geometrid	<i>Heliomata glarearia</i>		T							
27	European Geometrid	<i>Isturgia arenacearia</i>		T	T						
28	August Thorn	<i>Emmonos quercinaria</i>								F	
29	Orange Moth	<i>Angerona prunaria</i>				T					
30	European Geometrid	<i>Ascotis selenaria</i>					T				
31	Willow Beauty	<i>Peribatodes rhomboidana</i>		T	T	T	T			T	T
32	European Geometrid	<i>Peribatodes secundaria</i>					T				
33	Engrailed	<i>Ectropis bistortata</i>								T	T
34	Small Engrailed	<i>Ectropis crepuscularia</i>				T					
35	Common Heath	<i>Ematurga atomaria</i>		F		T	T	T			
36	Common White Wave	<i>Cabera pusaria</i>							T		
37	Light Emerald	<i>Campaea margaritata</i>				T					

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	
38	Straw Belle	<i>Aspitates gilvaria gilvaria</i>		T	T			F			
39	Poplar Hawk-moth	<i>Laothoe populi</i>						T			
40	Spurge Hawk-moth	<i>Hyles euphorbiae</i>			T						
41	Small Elephant Hawk-moth	<i>Deilephila porcellus</i>		T							
42	Poplar Kitten	<i>Furcula bifida</i>		T				T			
43	Iron Prominent	<i>Notodonta dromedarius</i>								T	
44	Swallow Prominent	<i>Pheosia tremula</i>					T	T			
45	Dusky Marbled brown	<i>Gluphisia crenata vertunea</i>						T			
46	Buff-tip	<i>Phalera bucephala</i>		T	T						
47	Vapourer	<i>Orgyia antiqua</i>						T			
48	Black V Moth	<i>Arctornis l-nigrum</i>					T				
49	Round-winged Muslin	<i>Thumatha senex</i>					T				
50	Dotted Footman	<i>Pelosia muscerda</i>					T	T			
51	Dingy Footman	<i>Eilema griseola</i>		T							
52	Hoary Footman	<i>Eilema caniola</i>			T					T	
53	Pigmy Footman	<i>Eilema pygmaeola pallifrons</i>								T	
54	Scarce Footman	<i>Eilema complana</i>			T/F						
55	Buff Ermine	<i>Spilosoma luteum</i>						T			
56	Ruby Tiger	<i>Phragmatobia fuliginosa</i>			T						
57	Jersey Tiger	<i>Euplagia quadripunctata</i>							F	F	F
58	Scarce Black Arches	<i>Nola aerugula</i>					T		T/F		
59	Jersey Black Arches	<i>Nola chlamitulalis</i>					T				
60	Heart and Dart	<i>Agrotis exclamationis</i>		T							
61	The Flame	<i>Axylia putris</i>					T				
62	Lesser Yellow Underwing	<i>Noctua comes</i>							T		
63	Broad-bordered Yellow Underwing	<i>Noctua fimbriata</i>		T							
64	Spiny Bollworm	<i>Earias biplaga</i>		T							
65	Double Line	<i>Mythimna turca</i>						T			
66	Poplar Grey	<i>Acronicta megacephala</i>		T	T						
67	Alder Moth	<i>Acronicta alni</i>		T	T						
68	Tree-lichen Beauty	<i>Cryphia algae</i>		T							
69	Dun-bar	<i>Cosmia trapezina</i>		T			T	T			
70	Uncertain	<i>Hoplodrina alsines</i>		T	T		T	T		T	
71	Mottled Rustic	<i>Caradrina morpheus</i>					T			T	
72	Beautiful Marbled	<i>Eublemma purpurina</i>			T						
73	Marbled White Spot	<i>Protodeltote pygarga</i>						T			
74	Spotted Sulphur	<i>Emmelia trabealis</i>		T/F			F	F			
75	Silver-Y	<i>Autographa gamma</i>		F				F	F	F	
76	Red Underwing	<i>Catocala nupta</i>		T	T						
77	Geomatrician	<i>Prodotis stolidia</i>		T							
78	Four-spotted	<i>Tyta luctuosa</i>						F		F	
79	Beautiful Hook-tip	<i>Laspeyria flexula</i>						T			
80	Buttoned Snout	<i>Hypena rostralis</i>		T							
81	Shaded Fan-foot	<i>Hermينيا tarsicrinalis</i>						T	T		

	Common name	Scientific name	August								
			5	6	7	8	9	10	11	12	

Other Invertebrates

1	Banded Demoiselle	<i>Calopteryx splendens</i>				✓				
2	Beautiful Demoiselle	<i>Calopteryx virgo</i>						✓		
3	Blue Featherleg	<i>Platycnemis pennipes</i>		✓	✓					
4	Blue Emperor	<i>Anax imperator</i>						✓		
5	Ruddy Darter	<i>Sympetrum sanguineum</i>		✓			✓	✓		
6	Nose Grasshopper	<i>Acrida ungarica</i>		✓						
7	Dark Bush-cricket	<i>Pholidoptera griseoptera</i>						✓		
8	Shield Bug	<i>Graphosoma lineatum (G. italicum)</i>				✓	✓	✓	✓	
9	Praying Mantis	<i>Mantis religiosa</i>	✓	✓			✓			
10	Leather Bug or Squash Bug	<i>Syromastes rhombeus</i>							✓	
11	Mirid Bug	<i>Orthotylus sp.</i>			✓	✓			✓	
12	Common Pond Skater	<i>Gerris lacustris</i>					✓			
13	Ant Lion	<i>Disoleon tetragrammicus</i>		✓					✓	
14	Horse-fly	<i>Tabanidae sp.</i>				✓				
15	Cleg Fly	<i>Haematopota pluvialis</i>					✓	✓	✓	
16	Hornet	<i>Vespa crabro</i>					✓	✓	✓	
17	Carpenter Bee	<i>Xylocopa sp.</i>			✓	✓		✓	✓	
18	Honey Bee	<i>Apis mellifera</i>		✓	✓	✓	✓	✓	✓	
19	Buff-tailed Bumblebee	<i>Bombus terrestris</i>				✓			✓	
20	Violet Ground Beetle	<i>Carabus violaceus</i>			✓	✓				
21	Common Ground Beetle	<i>Pterostichus sp.</i>				T				
22	Rose Chafer	<i>Cetonia aurata</i>		✓				✓	✓	
23	Chafer	<i>Cetonia cuprea</i>						✓	✓	
24	Glow-worm	<i>Lampyris noctiluca</i>			✓					
25	Harlequin Ladybird	<i>Harmonia axyridis</i>		✓	✓					
26	Seven-spot Ladybird	<i>Coccinella 7-punctata</i>					✓		✓	

Molluscs

1	Roman Snail	<i>Helix pomatia</i>		✓		✓	✓	✓	✓	
2	Brown-lipped Banded Snail	<i>Cepaea nemoralis</i>						✓		

Crustacea

1	Fairy Shrimp	<i>Branchiopoda Sp.</i>						✓		
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The group