

Supplementary material to the paper

No long-term decrease in caterpillar availability for invertivorous birds in deciduous forests in Hungary

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Table S1. The list of species included in our analysis, their seasonal presence, larval size and host plant.

Family/Species	Presence (months) of		Overwintering stage	Lag (year)	Estimated larval			Host plant (genus)
	Caterpillar	Adults			Length (mm)	Diameter (mm)	Body mass (mg)	
<u>Drepanidae</u>								
<i>Achlya flavicornis</i> (Linnaeus, 1758)	04-06	03-04	Pupa	1	31	4	390	<i>Betula</i>
<i>Cymatophorina diluta</i> ([Dennis & Schiffermüller] 1775)	05-06	08-10	Egg	0	26	4	327	<i>Quercus</i>
<i>Polyploca ridens</i> (Fabricius, 1787)	05-06	03-04	Pupa	1	33	5	648	<i>Quercus</i>
<u>Geometridae</u>								
<i>Agriopis aurantiaria</i> (Hübner, 1799)*	05-06	10-12	Egg	0	29	3	205	<i>Quercus, Carpinus, Acer</i>
<i>Agriopis bajaria</i> ([Dennis & Schiffermüller] 1775)*	04-06	10-11	Egg	0	33	3	233	<i>Prunus, Malus, Crataegus</i>
<i>Agriopis leucophaearia</i> ([Dennis & Schiffermüller] 1775)*	04-06	02-04	Pupa	1	25	3	177	<i>Quercus, Populus</i>
<i>Agriopis marginaria</i> (Borkhausen, 1777)*	05-06	02-04	Egg	1	29	3	205	<i>Quercus, Fagus, Populus</i>
<i>Alcis repandata</i> (Linnaeus, 1758)	07-W-05	05-08	Larva	0	37	3	262	<i>Quercus, Carpinus, Prunus</i>
<i>Alsophila aceraria</i> ([Dennis & Schiffermüller] 1775)*	05-07	10-12	Egg	0	26	3	184	<i>Quercus, Fagus, Acer</i>
<i>Alsophila aescularia</i> ([Dennis & Schiffermüller] 1775)*	04-06	02-04	Pupa	1	26	3	184	<i>Quercus, Corylus, Crataegus</i>
<i>Apocheima hispidaria</i> ([Dennis & Schiffermüller] 1775)	04-06	02-04	Pupa	1	39	4	490	<i>Quercus, Carpinus, Alnus</i>
<i>Biston strataria</i> (Hufnagel, 1766)	05-07	02-04	Pupa	1	54	5	1060	<i>Quercus, Acer, Tilia</i>
<i>Colotois pennaria</i> (Linnaeus, 1761)*	05-07	09-11	Egg	0	55	5	1080	<i>Quercus, Carpinus, Tilia</i>
<i>Comibaena bajularia</i> ([Dennis & Schiffermüller] 1775)	07-W-05	05-07	Larva	0	19	4	239	<i>Quercus</i>
<i>Ennomos autumnaria</i> (Werneburg, 1859)*	05-06	08-10	Egg	0	50	3	353	<i>Quercus, Tilia, Alnus</i>
<i>Epirrita christyi</i> (Allen, 1906)*	05-06	09-11	Egg	0	21	4	264	<i>Quercus, Acer, Fraxinus</i>

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	Caterpillar	Adults			Length (mm)	Diameter (mm)	Body mass (mg)	
<i>Epirrita dilutata</i> ([Dennis & Schiffermüller] 1775)*	05-06	09-11	Egg	0	21	4	264	<i>Quercus, Carpinus, Crataegus</i>
<i>Erannis defoliaria</i> (Clerck, 1759)*	05-06	10-12	Egg	0	30	4	377	<i>Quercus, Carpinus, Tilia</i>
<i>Lycia hirtaria</i> (Clerck, 1759)	05-07	03-05	Pupa	1	54	5	1060	<i>Quercus, Tilia, Prunus</i>
<i>Operophtera brumata</i> (Linnaeus, 1758)*	04-06	10-12	Egg	0	19	3	134	<i>Quercus, Carpinus, Malus</i>
<i>Phigalia pilosaria</i> ([Dennis & Schiffermüller] 1775)	04-06	02-04	Pupa	1	40	4	503	<i>Quercus, Carpinus, Acer</i>
<u>Lasiocampidae</u>								
<i>Malacosoma neustria</i> (Linnaeus, 1758)*	05-06	06-08	Egg	0	53	5	1041	<i>Quercus, Prunus, Malus</i>
<i>Pocilocampa populi</i> (Linnaeus, 1758)	05-07	10-12	Egg	0	45	5	884	<i>Quercus, Prunus, Populus</i>
<u>Noctuidae</u>								
<i>Agrochola helvola</i> (Linnaeus, 1758)	04-06	08-10	Egg	0	43	5	844	<i>Quercus, Prunus, Salix</i>
<i>Amphipyra berbera</i> (Rungs, 1949)	04-06	07-10	Egg	0	40	8	2011	<i>Quercus, Carpinus, Tilia</i>
<i>Amphipyra pyramidea</i> (Linnaeus, 1758)	04-06	07-10	Egg	0	40	8	2011	<i>Quercus, Carpinus, Tilia</i>
<i>Anorthoa munda</i> ([Dennis & Schiffermüller] 1775)*	05-06	03-05	Pupa	1	38	5	746	<i>Quercus, Carpinus, Tilia</i>
<i>Asteroscopus sphinx</i> (Hufnagel, 1766)	05-06	09-10	Egg	0	46	9	2926	<i>Quercus, Carpinus, Fagus</i>
<i>Catocala nymphagoga</i> (Linnaeus, 1787)	05-06	06-08	Egg	0	43	4	540	<i>Quercus</i>
<i>Catocala promissa</i> ([Dennis & Schiffermüller] 1775)	05-06	06-08	Egg	0	50	7	1924	<i>Quercus</i>
<i>Catocala sponsa</i> (Linnaeus, 1767)	05-06	07-08	Egg	0	55	8	2765	<i>Quercus</i>
<i>Cosmia trapezina</i> (Linnaeus, 1758)*	05-06	06-09	Egg	0	30	4	377	<i>Quercus, Prunus, Corylus</i>
<i>Dichonia convergens</i> ([Dennis & Schiffermüller] 1775)	05-06	09-10	Egg	0	48	8	2413	<i>Quercus</i>
<i>Dicycla oo</i> (Linnaeus, 1758)	05-06	06-07	Egg	0	36	5	707	<i>Quercus</i>
<i>Dryobotodes eremita</i> (Fabricius, 1775)*	04-06	09-10	Egg	0	38	7	1462	<i>Quercus</i>
<i>Griposia aprilina</i> (Linnaeus, 1758)	05-06	09-10	Egg	0	48	8	2413	<i>Quercus</i>
<i>Orthosia cerasi</i> (Fabricius, 1775)*	05-06	03-05	Pupa	1	38	7	1462	<i>Quercus, Salix, Ulmus</i>
<i>Orthosia cruda</i> ([Dennis & Schiffermüller] 1775)*	05-06	03-05	Pupa	1	30	5	589	<i>Quercus, Betula, Acer</i>
<i>Orthosia gothica</i> (Linnaeus, 1758)*	05-06	03-05	Pupa	1	45	7	1732	<i>Quercus, Tilia, Prunus</i>

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	Caterpillar	Adults			Length (mm)	Diameter (mm)	Body mass (mg)	
<i>Orthosia incerta</i> (Hufnagel, 1766)*	05-06	03-05	Pupa	1	40	6	1131	<i>Quercus, Prunus, Populus</i>
<i>Orthosia miniosa</i> ([Dennis & Schiffermüller] 1775)*	05-06	03-05	Pupa	1	36	5	707	<i>Quercus, Betula, Acer</i>
<u>Notodontidae</u>								
<i>Peridea anceps</i> (Goeze 1781)	05-07	04-06	Pupa	1	43	7	1655	<i>Quercus</i>
<i>Ptilophora plumigera</i> ([Dennis & Schiffermüller] 1775)*	05-07	10-12	Egg	0	35	5	687	<i>Acer</i>

* Can be considered as pest