

CORRIGENDA:

Settele J et al. (2008) Climatic Risk Atlas of European Butterflies

Josef Settele¹, Otakar Kudrna², Alexander Harpke¹, Ingolf Kühn¹, Chris van Swaay³, Rudi Verovnik⁴, Martin Warren⁵, Martin Wiemers⁶, Jan Hanspach¹, Thomas Hickler⁷, Elisabeth Kühn¹, Inge van Halder³, Kars Veling³, Albert Vliegenthart³, Irma Wynhoff³, Oliver Schweiger¹

1 UFZ, Helmholtz Centre for Environmental Research, Department of Community Ecology, Theodor-Lieser-Str. 4, D-06120 Halle, Germany **2** Naturmuseum Südtirol, Bindergasse 1, I-39100 Bozen (Südtirol), Italy **3** De Vlinderstichting – Dutch Butterfly Conservation, P.O. Box 506, 6700 AM Wageningen, The Netherlands **4** Društvo za proučevanje in ohranjanje metuljev Slovenije (DPOMS), Stara Dekova cesta 14, 3000 Celje, Slovenia **5** Butterfly Conservation, Manor Yard, East Lulworth, Wareham, Dorset BH20 5QP, United Kingdom **6** Department of Population Ecology, Faculty of Life Sciences, University of Vienna, Rennweg 14, A-1030 Wien, Austria **7** Department of Physical Geography & Ecosystems Analysis, University of Lund, Sölvegatan 13, 223 62 Lund, Sweden

Corresponding author: Josef Settele (josef.settele@ufz.de)

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In the „Climatic Risk Atlas of European Butterflies” by Settele et al. (2008) some errors occurred for which we apologize and herewith present the corrections:

1. Legends of all niche space diagrams

Throughout the entire publication there was a systematic formatting error in the legends of the niche space diagram of each species: ‘green - hostile’ should read ‘green - habitable’.

2. Nomenclature

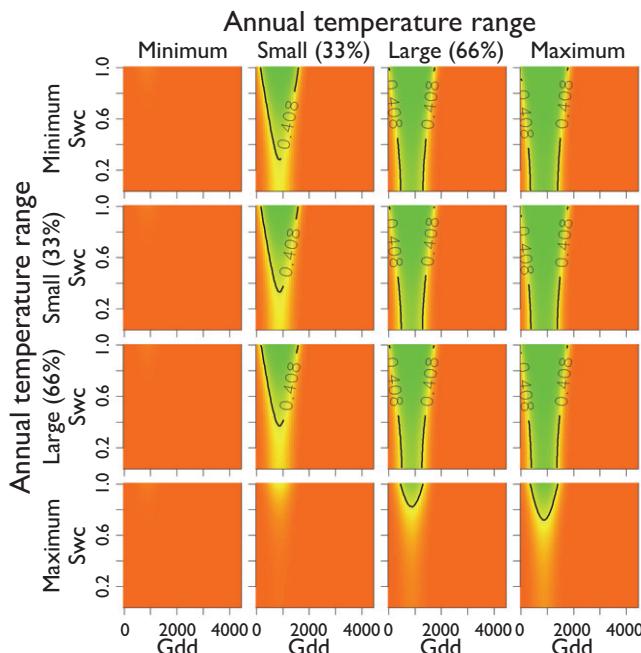
Some mistakes in the nomenclature of the butterfly species occurred. These are summarized in the following table:

Erroneous version in original publication	correction
<i>Carcharodus alceae</i> (ESPER, 1870)	<i>Carcharodus alceae</i> (ESPER, 1780)
<i>Thymelicus acteon</i> (ROTTEMBURGER, 1775)	<i>Thymelicus acteon</i> (ROTTEMBURG, 1775)
<i>Colias palaeno</i> (LINNAEUS, 1758)	<i>Colias palaeno</i> (LINNAEUS, 1761)
<i>Melitaea parthenoides</i> (KEFERSTEIN, 1851)	<i>Melitaea parthenoides</i> KEFERSTEIN, 1851
<i>Melitaea aurelia</i> (NICKERL, 1850)	<i>Melitaea aurelia</i> NICKERL, 1850
<i>Melitaea britomartis</i> (ASSMANN, 1847)	<i>Melitaea britomartis</i> ASSMANN, 1847
<i>Limenitis reducta</i> (STAUDINGER, 1901)	<i>Limenitis reducta</i> STAUDINGER, 1901
<i>Lopinga achine</i> (LINNAEUS, 1763)	<i>Lopinga achine</i> (SCOPOLI, 1763)
Greyling	Grayling
PRINS (author name)	DE PRINS *
PRUNNER (author name)	DE PRUNNER *

* When authors like De Prins or De Prunner consider these prefixes as parts of their family names it seems most correct to cite them as such. As this is the case e.g. with De Prins (Wiemers, pers. comm.), and as our nomenclature does not follow a certain checklist, we decided to go for this version, while also the one without the prefix is sometimes used.

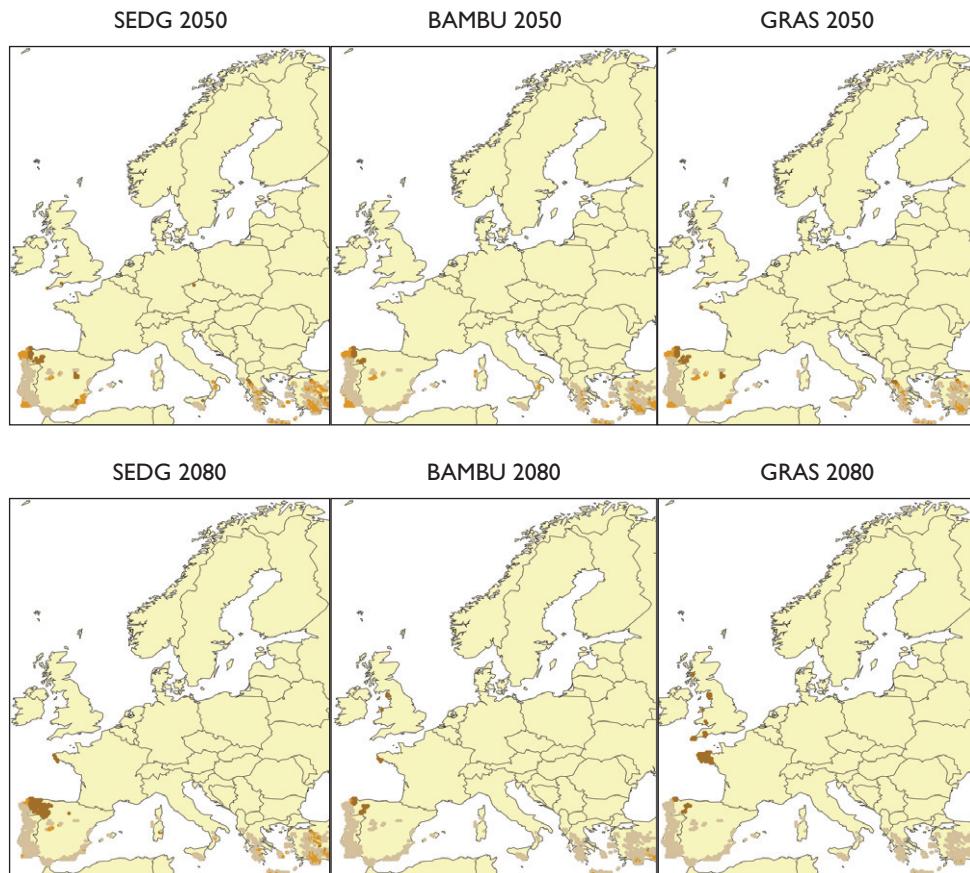
3. Wrong niche space diagram

On page 164, for *Colias palaeno* the wrong multidimensional climate niche is shown (it is the same one as of *C. phicomone* from page 162). The right diagram is presented here:



4. Wrong scenario maps

Unfortunately on page 237 the wrong scenario maps have been presented for *Zizeeria knysna*. Please use the following 6 maps for replacement:



5. Further errors or amendments

a) On page 20 the analysis of the soil water content is listed as one of the factors. The background publication for the final model was not yet cited as it was not yet available. In the meantime the paper is published. We herewith supplement the respective reference:

Hickler T, Fronzek S, Araújo MB, Schweiger O, Thuiller W, Sykes MT (2009) An ecosystem-model-based estimate of changes in water availability differs from water proxies that are commonly used in species distribution models. *Global Ecology & Biogeography* 18: 304–313.

b) On page 590 the wrong species is shown; we herewith provide a new picture of *Hipparchia syriaca* (STAUDINGER, 1871) – Eastern Rock Grayling (© Rudi Verovnik)



c) On pages 670 and 688 the reference to the page number of *Euphydryas cynthia* should be 412, not 212.

d) Appendix 1:

On pages 664 to 673, from *Euchloe ausonia* (HÜBNER, 1806) (complex) onwards, there have been systematic errors in the values of the columns “f.pres.”, “r.pres.”, and “f.abs.”, while the results presented in the other columns are correct. Therefore, we now provide a completely corrected table (which also includes the taxonomic corrections in the scientific names mentioned above).

e) Appendix 2:

On pages 678 to 695, from *Euchloe ausonia* (HÜBNER, 1806) (complex) onwards, there have been systematic errors in most of the scenario results of the 2050 period, while the results presented in the species accounts on pages 32 to 618 have been correct. Therefore we now provide a completely corrected table (which also includes the taxonomic corrections in the scientific names mentioned above).

Reference

Settele J, Kudrna O, Harpke A, Kühn I, van Swaay C, Verovnik R, Warren M, Wiemers M, Hanspach J, Hickler T, Kühn E, van Halder I, Veling K, Vliegenthart A, Wynhoff I, Schweiger O (2008) Climatic Risk Atlas of European Butterflies. *BioRisk* 1 (special issue), 1-710. [ISBN 978-954-642-454-9 (PB), 978-954-642-455-6 (HB). Pensoft, Sofia-Moscow.]

Appendix 1 – Model performance

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
32	<i>Erynnis tages</i> (LINNAEUS, 1758)	0.72	0.35	0.66	0.50	0.50	0.88	0.12	17709
34	<i>Erynnis marloyi</i> (BOISDUVAL, 1834)	0.98	0.40	0.98	0.02	0.52	0.48		904
36	<i>Carcharodus aloeae</i> (ESPER, 1780)	0.71	0.39	0.68	0.60	0.40	0.87	0.13	12571
38	<i>Carcharodus lanatherae</i> (ESPER, 1783)	0.73	0.15	0.83	0.86	0.14	0.36	0.64	3262
40	<i>Carcharodus flocciferus</i> (ZELLER, 1847)	0.79	0.30	0.81	0.87	0.13	0.47	0.53	4213
42	<i>Carcharodus orientalis</i> (REVERDIN, 1913)	0.92	0.41	0.96	0.97	0.03	0.54	0.46	1232
44	<i>Carcharodus baeticus</i> (RAMBUR, 1840)	0.8	0.20	0.96	0.99	0.01	0.18	0.82	414
46	<i>Spiailia phlomidis</i> (HERRICH-SCHÄFFER, 1845)	0.93	0.30	0.99	1.00	0.00	0.20	0.80	383
48	<i>Spiailia sertorius</i> (HOFFMANSSEGG, 1804)	0.77	0.35	0.74	0.76	0.24	0.67	0.33	6768
50	<i>Spiailia orbifer</i> (HÜBNER, 1823)	0.89	0.40	0.91	0.93	0.07	0.57	0.43	2728
52	<i>Syrichtus proto</i> (OCHSENHEIMER, 1808)	0.89	0.30	0.85	0.85	0.15	0.88	0.13	3666
54	<i>Syrichtus tessellum</i> (HÜBNER, 1803)	0.89	0.37	0.97	0.98	0.02	0.73	0.27	1059
56	<i>Pyrgus carthami</i> (HÜBNER, 1813)	0.76	0.26	0.75	0.77	0.23	0.61	0.39	6563
58	<i>Pyrgus sidae</i> (ESPER, 1782)	0.85	0.24	0.94	0.96	0.04	0.30	0.70	1343
60	<i>Pyrgus andromedae</i> (WALLENGREN, 1853)	0.87	0.43	0.94	0.96	0.04	0.57	0.43	1931
62	<i>Pyrgus cacaliae</i> (RAMBUR, 1840)	0.92	0.50	0.97	0.98	0.02	0.60	0.40	1153
64	<i>Pyrgus centaurae</i> (RAMBUR, 1840)	0.96	0.71	0.94	0.94	0.06	0.95	0.05	5760
66	<i>Pyrgus malvae</i> (LINNAEUS, 1758) / <i>malvoides</i> (EWES & EDWARDS, 1897) (complex)	0.71	0.35	0.68	0.48	0.52	0.87	0.13	20440
68	<i>Pyrgus serrulae</i> (RAMBUR, 1840)	0.82	0.34	0.77	0.81	0.19	0.61	0.39	6215
70	<i>Pyrgus onopordi</i> (RAMBUR, 1840)	0.78	0.22	0.87	0.89	0.11	0.46	0.54	2169
72	<i>Pyrgus carlineae</i> (RAMBUR, 1840)	0.9	0.35	0.97	0.97	0.03	0.63	0.37	818
74	<i>Pyrgus cirsii</i> (RAMBUR, 1840)	0.9	0.24	0.83	0.83	0.17	0.76	0.24	4352
76	<i>Pyrgus armoricanus</i> (OBERTHÜR, 1910)	0.78	0.27	0.74	0.76	0.24	0.60	0.40	6658
78	<i>Pyrgus alveus</i> (HÜBNER, 1803) (complex)	0.73	0.27	0.70	0.74	0.26	0.56	0.44	10912
80	<i>Pyrgus bellieri</i> (OBERTHÜR, 1910)	0.94	0.49	0.98	0.99	0.01	0.59	0.41	406

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
82	<i>Pyrgus warrenensis</i> (VERITY, 1928)	0.99	0.43	0.96	0.04	0.97	0.03		1405
84	<i>Hebetopterus morphenus</i> (PALLAS, 1771)	0.78	0.27	0.74	0.24	0.64	0.36		7559
86	<i>Carterocephalus palaeon</i> (PALLAS, 1771)	0.79	0.41	0.76	0.84	0.16	0.57	0.43	11232
88	<i>Carterocephalus silvicolus</i> (MEIGEN, 1829)	0.93	0.59	0.92	0.95	0.05	0.63	0.37	5493
90	<i>Thymelicus lineola</i> (OCHSENHEIMER, 1806)	0.75	0.42	0.70	0.55	0.45	0.87	0.13	19431
92	<i>Thymelicus sylvestris</i> (PODA, 1761)	0.72	0.39	0.69	0.64	0.36	0.76	0.24	12329
94	<i>Thymelicus acteon</i> (ROTTEMBURG, 1775)	0.76	0.36	0.69	0.66	0.34	0.79	0.21	9801
96	<i>Hesperia comma</i> (LINNAEUS, 1758)	0.77	0.41	0.71	0.71	0.29	0.70	0.30	11806
98	<i>Ochlodes sylvanus</i> (ESPER, 1777)	0.75	0.42	0.72	0.53	0.47	0.88	0.12	20554
100	<i>Genes pumilio</i> (HOEFFMANSEGG, 1804)	0.96	0.42	0.96	0.98	0.02	0.38	0.62	525
102	<i>Genes nosrodamus</i> (FABRICIUS, 1793)	0.94	0.30	0.92	0.94	0.06	0.57	0.43	1225
104	<i>Zerynthia rumina</i> (LINNAEUS, 1767)	0.91	0.39	0.86	0.86	0.14	0.85	0.15	3500
106	<i>Zerynthia polyxena</i> ([SCHIFFERMÜLLER], 1775)	0.85	0.42	0.85	0.86	0.14	0.69	0.31	4899
108	<i>Zerynthia cerisy</i> (GODART, 1822)	0.91	0.37	0.97	0.99	0.01	0.31	0.69	579
110	<i>Parnassius mnemosyne</i> (LINNAEUS, 1758)	0.77	0.33	0.74	0.77	0.23	0.63	0.37	9109
112	<i>Parnassius phoebus</i> (FABRICIUS, 1793)	0.99	0.63	0.98	0.98	0.02	0.88	0.13	1113
114	<i>Parnassius apollo</i> (LINNAEUS, 1758)	0.8	0.37	0.78	0.81	0.19	0.62	0.38	6273
116	<i>Iphiclides podalirius</i> (LINNAEUS, 1758)	0.76	0.43	0.72	0.71	0.29	0.74	0.26	10378
118	<i>Papilio machaon</i> LINNAEUS, 1758	0.67	0.37	0.73	0.46	0.54	0.88	0.12	21332
120	<i>Papilio alexander</i> ESPER, 1799	0.94	0.38	0.97	0.98	0.02	0.43	0.57	687
122	<i>Leptidea sinapis</i> (LINNAEUS, 1758) / <i>reali</i> REISSINGER, 1990 (complex)	0.63	0.26	0.64	0.53	0.47	0.73	0.27	18126
124	<i>Leptidea duponcheli</i> (STAUDINGER, 1871)	0.69	0.29	0.95	0.98	0.02	0.31	0.69	1117
126	<i>Leptidea morsii</i> (FENTON, 1881)	0.92	0.31	0.94	0.96	0.04	0.55	0.45	1567
128	<i>Anthocharis cardamines</i> (LINNAEUS, 1758)	0.7	0.36	0.69	0.66	0.34	0.71	0.29	18795
130	<i>Anthocharis euphenoides</i> STAUDINGER, 1869	0.91	0.35	0.86	0.88	0.12	0.69	0.31	2970
132	<i>Anthocharis gruneri</i> HERRICH-SCHÄFFER, 1851	0.92	0.34	0.97	0.97	0.03	0.50	0.50	997
134	<i>Zegris eupheme</i> (ESPER, 1805)	0.97	0.40	0.96	0.97	0.03	0.67	0.33	858

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
136	<i>Euchloe belemnia</i> (ESPER, 1798)	0.96	0.38	0.96	0.97	0.03	0.44	0.56	695
138	<i>Euchloe ausonia</i> (HÜBNER, 1806) (complex)	0.85	0.53	0.85	0.88	0.12	0.70	0.30	4483
140	<i>Euchloe tagis</i> (HÜBNER, 1804)	0.86	0.19	0.84	0.84	0.16	0.79	0.21	3152
142	<i>Aporia crataegi</i> (LINNAEUS, 1758)	0.69	0.30	0.64	0.48	0.52	0.83	0.17	18785
144	<i>Pieris brassicae</i> (LINNAEUS, 1758)	0.66	0.31	0.75	0.34	0.66	0.93	0.07	23482
146	<i>Pieris krueperi</i> (STAUDINGER, 1860)	0.91	0.40	0.96	0.97	0.03	0.59	0.41	1314
148	<i>Pieris mannii</i> (MAYER, 1851)	0.76	0.31	0.88	0.94	0.06	0.34	0.66	1710
150	<i>Pieris rapae</i> (LINNAEUS, 1758)	0.69	0.37	0.78	0.34	0.66	0.97	0.03	24143
152	<i>Pieris ergane</i> (GEYER, 1828)	0.84	0.34	0.90	0.93	0.07	0.48	0.52	2146
154	<i>Pieris napi</i> (LINNAEUS, 1758)	0.73	0.32	0.77	0.35	0.65	0.93	0.07	26459
156	<i>Pieris bryoniae</i> (HÜBNER, 1791)	0.92	0.50	0.95	0.98	0.02	0.48	0.52	1183
158	<i>Pontia callidice</i> (HÜBNER, 1800)	0.98	0.61	0.98	0.98	0.02	0.67	0.33	891
160	<i>Pontia daplidice</i> (LINNAEUS, 1758) / <i>edusa</i> (FABRICIUS, 1777) (complex)	0.72	0.42	0.71	0.61	0.39	0.81	0.19	15310
162	<i>Colias phicomone</i> (ESPER, 1780)	0.96	0.55	0.96	0.97	0.03	0.66	0.34	1423
164	<i>Colias philodice</i> (LINNAEUS, 1761)	0.9	0.66	0.88	0.91	0.09	0.77	0.23	9886
166	<i>Colias erate</i> (ESPER, 1805)	0.92	0.45	0.93	0.96	0.04	0.51	0.49	2394
168	<i>Colias croceus</i> (GEOFFROY, 1785)	0.76	0.45	0.73	0.55	0.45	0.89	0.11	16185
170	<i>Colias hecla</i> LEFEBVRE, 1836	0.99	0.77	0.99	0.99	0.01	1.00	0.00	980
172	<i>Colias myrmidone</i> (ESPER, 1780)	0.92	0.36	0.89	0.90	0.10	0.77	0.23	4252
174	<i>Colias chrysototheme</i> (ESPER, 1780)	0.89	0.28	0.98	0.99	0.01	0.25	0.75	752
176	<i>Colias hyale</i> (LINNAEUS, 1758)	0.84	0.51	0.77	0.80	0.20	0.72	0.28	12535
178	<i>Colias alfacariensis</i> RIBBE, 1905	0.84	0.44	0.74	0.73	0.27	0.79	0.21	9648
180	<i>Gonepteryx rhamni</i> (LINNAEUS, 1758)	0.73	0.44	0.74	0.56	0.44	0.86	0.14	20599
182	<i>Gonepteryx farinosa</i> ZELLER, 1847	0.94	0.49	0.98	0.99	0.01	0.44	0.56	645
184	<i>Gonepteryx cleopatra</i> (LINNAEUS, 1767)	0.92	0.60	0.88	0.89	0.11	0.82	0.18	4249
186	<i>Lycaena phlaeas</i> (LINNAEUS, 1761)	0.65	0.25	0.74	0.27	0.73	0.94	0.06	23910

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
188	<i>Lycaena helle</i> ([SCHIFFERMÜLLER], 1775)	0.78	0.26	0.90	0.95	0.05	0.28	0.72	2439
190	<i>Lycaena dispar</i> (HAWORTH, 1803)	0.88	0.46	0.83	0.89	0.11	0.57	0.43	8048
192	<i>Lycaena virgaureae</i> (LINNAEUS, 1758)	0.86	0.60	0.80	0.78	0.22	0.84	0.16	14822
194	<i>Lycaena ottomanana</i> (LEFFEBVRE, 1830)	0.98	0.46	0.98	1.00	0.00	0.38	0.62	473
196	<i>Lycaena tityrus</i> (PODA, 1761)	0.82	0.48	0.75	0.74	0.26	0.77	0.23	11172
198	<i>Lycaena alciphron</i> (ROTTEMBURG, 1775)	0.8	0.40	0.74	0.77	0.23	0.66	0.34	9113
200	<i>Lycaena hippothoe</i> (LINNAEUS, 1761)	0.85	0.53	0.77	0.75	0.25	0.80	0.20	14109
202	<i>Lycaena candens</i> (HERRICH-SCHÄFFER, 1844)	0.86	0.30	0.98	1.00	0.00	0.22	0.78	657
204	<i>Lycaena thersamon</i> (ESPER, 1784)	0.93	0.41	0.87	0.91	0.09	0.58	0.42	4545
206	<i>Thecla betulae</i> (LINNAEUS, 1758)	0.79	0.42	0.72	0.68	0.32	0.79	0.21	12908
208	<i>Favonius quercus</i> (LINNAEUS, 1758)	0.72	0.37	0.68	0.59	0.41	0.81	0.19	13886
210	<i>Lacopsinis roboris</i> (ESPER, 1793)	0.81	0.20	0.81	0.81	0.19	0.79	0.21	4024
212	<i>Tornare ballus</i> (FABRICIUS, 1787)	0.91	0.25	0.96	0.98	0.02	0.29	0.71	397
214	<i>Callophrys rubi</i> (LINNAEUS, 1758)	0.63	0.23	0.65	0.46	0.54	0.76	0.24	21380
216	<i>Calliphrys avis</i> CHAPMAN, 1909	0.9	0.25	0.96	0.97	0.03	0.38	0.62	433
218	<i>Satyrium w-album</i> (KNOCH, 1782)	0.78	0.37	0.69	0.66	0.34	0.78	0.22	11103
220	<i>Satyrium pruni</i> (LINNAEUS, 1758)	0.83	0.43	0.75	0.74	0.26	0.80	0.20	12270
222	<i>Satyrium spinii</i> (FABRICIUS, 1787)	0.71	0.31	0.70	0.73	0.27	0.63	0.37	8540
224	<i>Satyrium ilicis</i> (ESPER, 1779)	0.71	0.33	0.67	0.63	0.37	0.75	0.25	10856
226	<i>Satyrium esculi</i> (HÜBNER, 1804)	0.82	0.32	0.87	0.87	0.13	0.74	0.26	3010
228	<i>Satyrium acaciae</i> (FABRICIUS, 1787)	0.76	0.32	0.73	0.74	0.26	0.68	0.32	7748
230	<i>Lamprodes boeticus</i> (LINNAEUS, 1767)	0.83	0.48	0.80	0.80	0.20	0.80	0.20	6381
232	<i>Cacyreus marshalli</i> BUTLER, 1898	0.85	0.24	0.95	0.96	0.04	0.48	0.52	800
234	<i>Leptotes pirithous</i> (LINNAEUS, 1767)	0.83	0.45	0.82	0.83	0.17	0.76	0.24	5475
236	<i>Zizeeria knysna</i> (TRIMEN, 1862)	0.94	0.34	0.96	0.97	0.03	0.56	0.44	822
238	<i>Cupido minimus</i> (FUESSIX, 1775)	0.71	0.30	0.64	0.58	0.42	0.74	0.26	13437
240	<i>Cupido osiris</i> (MEIGEN, 1829)	0.76	0.22	0.91	0.96	0.04	0.25	0.75	1116

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
242	<i>Cupido argiades</i> (PALLAS, 1771)	0.81	0.38	0.63	0.37	0.88	0.12		15026
244	<i>Cupido decoloratus</i> (STAUDINGER, 1886)	0.93	0.27	0.92	0.06	0.49	0.51		2040
246	<i>Cupido alcetas</i> (HOFFMANSSEGG, 1804)	0.77	0.30	0.88	0.92	0.08	0.42	0.58	2208
248	<i>Celastrina argiolus</i> (LINNAEUS, 1758)	0.65	0.28	0.68	0.46	0.54	0.81	0.19	20422
250	<i>Scolitantides orion</i> (BERGSTÄSSER, 1779)	0.83	0.41	0.87	0.92	0.08	0.53	0.47	2643
252	<i>Scolitantides vicrama</i> (MOORE, 1865)	0.85	0.31	0.83	0.86	0.14	0.54	0.46	5393
254	<i>Scolitantides abencerragus</i> (PIERRET, 1837)	0.94	0.17	0.89	0.89	0.11	0.93	0.07	2679
256	<i>Scolitantides bavius</i> (EVERSMANN, 1832)	0.86	0.14	0.99	1.00	0.00	0.10	0.90	428
258	<i>Scolitantides orion</i> (PALLAS, 1771)	0.78	0.25	0.79	0.83	0.17	0.48	0.52	6270
260	<i>Scolitantides panopaea</i> (HÜBNER, 1813)	0.87	0.27	0.94	0.94	0.06	0.61	0.39	1493
262	<i>Glaucopsyche alexis</i> (PODA, 1761)	0.7	0.25	0.61	0.55	0.45	0.75	0.25	15676
264	<i>Glaucopsyche melanops</i> (BOISDUVAL, 1828)	0.8	0.29	0.85	0.85	0.15	0.79	0.21	3577
266	<i>Iolana iolus</i> (OCHSENHEIMER, 1816)	0.82	0.24	0.88	0.90	0.10	0.50	0.50	3307
268	<i>Phengaris arion</i> (LINNAEUS, 1758)	0.77	0.31	0.67	0.64	0.36	0.75	0.25	13242
270	<i>Phengaris telemus</i> (BERGSTÄSSER, 1779)	0.84	0.37	0.80	0.81	0.19	0.70	0.30	6483
272	<i>Phengaris nausithous</i> (BERGSTÄSSER, 1779)	0.91	0.44	0.88	0.90	0.10	0.65	0.35	3619
274	<i>Phengaris alcon</i> ([SCHIFFERMÜLLER], 1775)	0.83	0.38	0.77	0.79	0.21	0.68	0.32	6643
276	<i>Plebejus argus</i> (LINNAEUS, 1758)	0.69	0.37	0.69	0.54	0.46	0.83	0.17	19107
278	<i>Plebejus idas</i> (LINNAEUS, 1761)	0.74	0.41	0.70	0.64	0.36	0.78	0.22	18438
280	<i>Plebejus argyrogynon</i> (BERGSTÄSSER, 1779)	0.8	0.37	0.81	0.84	0.16	0.59	0.41	5588
282	<i>Plebejus argyrotite</i> (KNOCH, 1781)	0.9	0.63	0.86	0.90	0.10	0.74	0.26	10092
284	<i>Plebejus glandon</i> (DE PRUNNER, 1798)	0.99	0.63	0.98	0.99	0.01	0.60	0.40	425
286	<i>Plebejus aquile</i> (BOISDUVAL, 1832)	1	0.78	0.99	0.99	0.01	0.95	0.05	695
288	<i>Plebejus orbitulus</i> (DE PRUNNER, 1798)	0.98	0.64	0.97	0.98	0.02	0.73	0.27	1242
290	<i>Plebejus sephirus</i> (FRIVALDSZKY, 1835)	0.93	0.22	0.96	0.97	0.03	0.33	0.67	1189
292	<i>Aricia eumedon</i> (ESPER, 1780)	0.8	0.39	0.75	0.76	0.24	0.69	0.31	13389
294	<i>Aricia cramera</i> (ESCHSCHOLTZ, 1821)	0.91	0.49	0.90	0.91	0.09	0.79	0.21	2471

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
296	<i>Aricia agestis</i> ([SCHIFFERMÜLLER], 1775)	0.7	0.34	0.65	0.52	0.48	0.87	0.13	15253
298	<i>Aricia artaxerxes</i> (FABRICIUS, 1793)	0.72	0.33	0.74	0.79	0.21	0.56	0.44	9668
300	<i>Aricia montensis</i> (VERITY, 1928)	0.7	0.29	0.96	0.97	0.03	0.50	0.50	859
302	<i>Aricia anteros</i> (FREYER, 1838)	0.96	0.30	0.98	1.00	0.00	0.19	0.81	503
304	<i>Aricia nicias</i> (MEIGEN, 1829)	0.82	0.28	0.91	0.93	0.07	0.51	0.49	4301
306	<i>Cyaniris semiargus</i> (ROTTEMBURG, 1775)	0.76	0.39	0.69	0.62	0.38	0.77	0.23	17359
308	<i>Polyommatus escheri</i> (HÜBNER, 1823)	0.8	0.33	0.88	0.92	0.08	0.47	0.53	2310
310	<i>Polyommatus dorylas</i> ([SCHIFFERMÜLLER], 1775)	0.81	0.36	0.81	0.87	0.13	0.51	0.49	4520
312	<i>Polyommatus nivescens</i> (KEFERSTEIN, 1851)	0.98	0.40	0.98	0.98	0.02	0.54	0.46	467
314	<i>Polyommatus amandus</i> (SCHNEIDER 1792)	0.83	0.44	0.76	0.81	0.19	0.65	0.35	10087
316	<i>Polyommatus iberites</i> (CANTENER, 1834)	0.75	0.31	0.74	0.76	0.24	0.64	0.36	6959
318	<i>Polyommatus icarus</i> (ROTTENBURG, 1775)	0.65	0.25	0.79	0.24	0.76	0.96	0.04	25320
320	<i>Polyommatus eros</i> (OCHSENHEIMER, 1808)	0.71	0.26	0.90	0.91	0.09	0.50	0.50	2651
322	<i>Polyommatus daphnis</i> ([SCHIFFERMÜLLER], 1775)	0.84	0.35	0.76	0.76	0.24	0.73	0.27	8483
324	<i>Polyommatus bellargus</i> (ROTTENBURG, 1775)	0.72	0.32	0.65	0.59	0.41	0.79	0.21	12245
326	<i>Polyommatus coridon</i> (PODA, 1761)	0.82	0.41	0.74	0.77	0.23	0.67	0.33	8806
328	<i>Polyommatus hispanus</i> (HERRICH-SCHÄFFER, 1851)	0.95	0.34	0.95	0.96	0.04	0.54	0.46	792
330	<i>Polyommatus albicans</i> (HERRICH-SCHÄFFER, 1851)	0.88	0.52	0.97	0.98	0.02	0.70	0.30	950
332	<i>Polyommatus admetus</i> (ESPER, 1785)	0.88	0.26	0.95	0.97	0.03	0.33	0.67	1537
334	<i>Polyommatus ripartii</i> (FREYER, 1830)	0.75	0.25	0.97	0.99	0.01	0.20	0.80	460
336	<i>Polyommatus dolus</i> (HÜBNER, 1823)	0.97	0.37	0.98	0.99	0.01	0.38	0.63	214
338	<i>Polyommatus damon</i> ([SCHIFFERMÜLLER], 1775)	0.85	0.29	0.88	0.92	0.08	0.40	0.60	2338
340	<i>Hamearis lucina</i> (LINNAEUS, 1758)	0.77	0.35	0.75	0.83	0.17	0.53	0.47	6207
342	<i>Libythea celtis</i> (LAICHARTING, 1782)	0.8	0.37	0.86	0.89	0.11	0.59	0.41	3684
344	<i>Argynnis paphia</i> (LINNAEUS, 1758)	0.78	0.47	0.74	0.62	0.38	0.85	0.15	18276
346	<i>Argynnis pandora</i> ([SCHIFFERMÜLLER], 1775)	0.83	0.40	0.81	0.85	0.15	0.62	0.38	5433
348	<i>Argynnis aglaja</i> (LINNAEUS, 1758)	0.78	0.46	0.74	0.60	0.40	0.84	0.16	20551

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
350	<i>Argynnis adippe</i> ([SCHIFFERMÜLLER], 1775)	0.78	0.43	0.71	0.72	0.28	0.71	0.29	14199
352	<i>Argynnis niobe</i> (LINNAEUS, 1758)	0.74	0.35	0.66	0.57	0.43	0.84	0.16	16539
354	<i>Argynnis laodice</i> (PALLAS, 1771)	0.89	0.48	0.94	0.95	0.05	0.65	0.35	4961
356	<i>Issoria lathonia</i> (LINNAEUS, 1758)	0.78	0.48	0.74	0.70	0.30	0.78	0.22	14060
358	<i>Brenthis ino</i> (ROTTEMBURG, 1775)	0.87	0.59	0.80	0.79	0.21	0.82	0.18	13788
360	<i>Brenthis daphne</i> (BERGSTÄSSER, 1780)	0.77	0.32	0.77	0.81	0.19	0.57	0.43	5509
362	<i>Brenthis hecate</i> ([SCHIFFERMÜLLER], 1775)	0.79	0.28	0.84	0.88	0.12	0.47	0.53	3814
364	<i>Boloria eunomia</i> (ESPER, 1799)	0.89	0.64	0.90	0.94	0.06	0.70	0.30	7954
366	<i>Boloria euphrosyne</i> (LINNAEUS, 1758)	0.73	0.39	0.69	0.54	0.46	0.85	0.15	21529
368	<i>Boloria tiania</i> (ESPER, 1793)	0.9	0.36	0.91	0.95	0.05	0.43	0.57	1910
370	<i>Boloria selene</i> ([SCHIFFERMÜLLER], 1775)	0.73	0.46	0.73	0.63	0.37	0.83	0.17	20468
372	<i>Boloria chariclea</i> (SCHNEIDER, 1794)	1	0.73	0.99	1.00	0.00	0.64	0.36	528
374	<i>Boloria freija</i> (BECKLIN, 1791)	0.95	0.62	0.93	0.94	0.06	0.85	0.15	5507
376	<i>Boloria dia</i> (LINNAEUS, 1767)	0.86	0.47	0.78	0.83	0.17	0.65	0.35	8338
378	<i>Boloria thore</i> (HÜBNER, 1806)	0.95	0.49	0.96	0.97	0.03	0.56	0.44	1624
380	<i>Boloria frigga</i> (BECKLIN, 1791)	0.96	0.64	0.94	0.94	0.06	0.87	0.13	5945
382	<i>Boloria pales</i> ([SCHIFFERMÜLLER], 1775)	0.89	0.47	0.94	0.96	0.04	0.54	0.46	1516
384	<i>Boloria aquilonaris</i> (STICHEL, 1908)	0.89	0.60	0.86	0.94	0.06	0.62	0.38	8177
386	<i>Boloria graca</i> (STAUDINGER, 1870)	0.75	0.19	0.98	0.99	0.01	0.16	0.84	481
388	<i>Vanessa atalanta</i> (LINNAEUS, 1758)	0.65	0.28	0.73	0.38	0.62	0.88	0.12	22574
390	<i>Vanessa cardui</i> (LINNAEUS, 1758)	0.63	0.24	0.68	0.49	0.51	0.75	0.25	20136
392	<i>Aglais io</i> (LINNAEUS, 1758)	0.8	0.50	0.77	0.60	0.40	0.89	0.11	20483
394	<i>Aglais urticae</i> (LINNAEUS, 1758)	0.8	0.45	0.76	0.61	0.39	0.83	0.17	21818
396	<i>Nymphalis c-album</i> (LINNAEUS, 1758)	0.77	0.43	0.73	0.51	0.49	0.90	0.10	21399
398	<i>Nymphalis eaea</i> (CRAMER, 1775)	0.94	0.44	0.91	0.95	0.05	0.50	0.50	1780
400	<i>Nymphalis antiopa</i> (LINNAEUS, 1758)	0.76	0.47	0.73	0.73	0.27	0.74	0.26	16102
402	<i>Nymphalis polychloros</i> (LINNAEUS, 1758)	0.7	0.34	0.66	0.53	0.47	0.83	0.17	15861

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
404	<i>Nymphalis xanthomelas</i> (ESPER, 1781)	0.87	0.25	0.88	0.91	0.09	0.45	0.55	4111
406	<i>Nymphalis l-album</i> (ESPER, 1780)	0.89	0.25	0.91	0.93	0.07	0.46	0.54	5237
408	<i>Arachnia levana</i> (LINNAEUS, 1758)	0.87	0.58	0.80	0.80	0.20	0.81	0.19	12725
410	<i>Euphydryas iduna</i> (DALMAN, 1816)	1	0.64	0.99	0.99	0.01	0.96	0.04	1320
412	<i>Euphydryas cynthia</i> ([SCHIFFERMÜLLER], 1775)	0.98	0.48	0.98	1.00	0.00	0.38	0.62	395
414	<i>Euphydryas intermedia</i> (MENETRIES, 1859)	0.98	0.52	0.99	0.99	0.01	0.50	0.50	269
416	<i>Euphydryas maturna</i> (LINNAEUS, 1758)	0.79	0.26	0.84	0.90	0.10	0.40	0.60	7164
418	<i>Euphydryas desfontainii</i> (GODART, 1819)	0.88	0.20	0.92	0.92	0.08	0.59	0.41	1641
420	<i>Euphydryas aurinia</i> (ROTTEMBURG, 1775)	0.72	0.36	0.74	0.82	0.18	0.54	0.46	6513
422	<i>Militaea cinxia</i> (LINNAEUS, 1758)	0.75	0.36	0.67	0.59	0.41	0.82	0.18	13195
424	<i>Militaea phoebe</i> (GOEZE, 1779)	0.77	0.41	0.75	0.78	0.22	0.67	0.33	7693
426	<i>Militaea aetherea</i> (HÜBNER, 1826)	0.95	0.37	0.97	0.98	0.02	0.58	0.42	392
428	<i>Militaea trivia</i> ([SCHIFFERMÜLLER], 1775)	0.86	0.40	0.84	0.88	0.12	0.59	0.41	5195
430	<i>Militaea didyma</i> (ESPER, 1779)	0.77	0.40	0.70	0.65	0.35	0.81	0.19	12400
432	<i>Militaea diamina</i> (LANG, 1789)	0.84	0.37	0.73	0.75	0.25	0.68	0.32	8633
434	<i>Militaea deione</i> (GEYER, 1832)	0.76	0.19	0.85	0.87	0.13	0.47	0.53	2426
436	<i>Militaea varia</i> (MEYER-DÜR, 1851)	0.96	0.42	0.98	0.99	0.01	0.44	0.56	506
438	<i>Militaea parthenoides</i> KEFERSTEIN, 1851	0.84	0.33	0.86	0.89	0.11	0.54	0.46	3183
440	<i>Militaea aurelia</i> NICKERL, 1850	0.82	0.37	0.83	0.87	0.13	0.55	0.45	4423
442	<i>Militaea britomaris</i> ASSMANN, 1847	0.83	0.18	0.85	0.86	0.14	0.49	0.51	4280
444	<i>Militaea athalia</i> (ROTTEMBURG, 1775)	0.79	0.43	0.71	0.73	0.27	0.69	0.31	15482
446	<i>Limenitis populi</i> (LINNAEUS, 1758)	0.84	0.49	0.78	0.78	0.22	0.76	0.24	11332
448	<i>Limenitis camilla</i> (LINNAEUS, 1764)	0.81	0.45	0.76	0.78	0.22	0.72	0.28	8833
450	<i>Limenitis reducta</i> STAUDINGER, 1901	0.82	0.43	0.79	0.83	0.17	0.64	0.36	5716
452	<i>Nepis sappho</i> (PALLAS, 1771)	0.92	0.44	0.93	0.94	0.06	0.63	0.37	2607
454	<i>Nepis rivularis</i> (SCOPOLI, 1763)	0.87	0.42	0.92	0.96	0.04	0.45	0.55	2135
456	<i>Charaxes jasius</i> (LINNAEUS, 1767)	0.94	0.48	0.91	0.92	0.08	0.76	0.24	1979

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
458	<i>Apatura metis</i> (FREYER, 1829)	0.98	0.34	0.94	0.95	0.05	0.66	0.34	2091
460	<i>Apatura ilia</i> ((SCHIFFERMÜLLER, 1775))	0.86	0.53	0.80	0.83	0.17	0.73	0.27	9958
462	<i>Apatura iris</i> (LINNAEUS, 1758)	0.85	0.50	0.79	0.83	0.17	0.69	0.31	8784
464	<i>Kirinia roxelana</i> (CRAMER, 1777)	0.91	0.51	0.96	0.98	0.02	0.53	0.47	1198
466	<i>Panargia uegeria</i> (LINNAEUS, 1758)	0.65	0.36	0.73	0.36	0.64	0.96	0.04	22882
468	<i>Lasiommata megera</i> (LINNAEUS, 1767)	0.75	0.47	0.74	0.57	0.43	0.89	0.11	16529
470	<i>Lasiommata petropolitana</i> (FABRICIUS, 1787)	0.84	0.46	0.83	0.87	0.13	0.62	0.38	9156
472	<i>Lasiommata maura</i> (LINNAEUS, 1758)	0.75	0.35	0.67	0.68	0.32	0.67	0.33	14684
474	<i>Lopinga achine</i> (SCOPOLI, 1763)	0.81	0.35	0.82	0.86	0.14	0.55	0.45	6680
476	<i>Coenonympha tullia</i> (MÜLLER, 1764)	0.83	0.50	0.77	0.78	0.22	0.77	0.23	13062
478	<i>Coenonympha oedipus</i> (FABRICIUS, 1787)	0.95	0.26	0.95	0.97	0.03	0.37	0.63	1055
480	<i>Coenonympha rhodopensis</i> ELWES, 1900	0.95	0.15	0.96	0.97	0.03	0.21	0.79	759
482	<i>Coenonympha arcania</i> (LINNAEUS, 1761)	0.83	0.47	0.74	0.70	0.30	0.80	0.20	13544
484	<i>Coenonympha glycerion</i> (BORKHAUSEN, 1788)	0.86	0.57	0.81	0.81	0.19	0.81	0.19	12835
486	<i>Coenonympha gardetta</i> (DE PRUNNER, 1798)	0.97	0.57	0.97	0.98	0.02	0.64	0.36	941
488	<i>Coenonympha doris</i> (ESPÉR, 1782)	0.83	0.28	0.86	0.87	0.13	0.64	0.36	2781
490	<i>Coenonympha hero</i> (LINNAEUS, 1761)	0.88	0.38	0.88	0.91	0.09	0.55	0.45	3543
492	<i>Coenonympha leander</i> (ESPÉR, 1784)	0.89	0.35	0.98	0.99	0.01	0.37	0.63	827
494	<i>Coenonympha pamphilus</i> (LINNAEUS, 1758)	0.66	0.29	0.73	0.42	0.58	0.85	0.15	22310
496	<i>Pyronia titonus</i> (LINNAEUS, 1771)	0.82	0.47	0.79	0.85	0.15	0.64	0.36	6411
498	<i>Pyronia cecilia</i> (VALLANTIN, 1894)	0.91	0.55	0.90	0.93	0.07	0.68	0.32	2350
500	<i>Pyronia bathseba</i> (FABRICIUS, 1793)	0.83	0.30	0.85	0.85	0.15	0.80	0.20	3461
502	<i>Aphantopus hyperantus</i> (LINNAEUS, 1758)	0.84	0.58	0.79	0.78	0.22	0.80	0.20	16672
504	<i>Maniola jurtina</i> (LINNAEUS, 1758)	0.7	0.48	0.80	0.46	0.54	0.96	0.04	21820
506	<i>Hyponephele lycaon</i> (KÜHN, 1774)	0.78	0.32	0.76	0.81	0.19	0.55	0.45	6884
508	<i>Hyponephele lupina</i> (COSTA, 1836)	0.88	0.38	0.89	0.92	0.08	0.55	0.45	2829
510	<i>Erebia ligea</i> (LINNAEUS, 1758)	0.86	0.55	0.80	0.83	0.17	0.75	0.25	12462

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
512	<i>Erebia euryale</i> (ESPER, 1805)	0.89	0.47	0.90	0.95	0.05	0.51	0.49	2092
514	<i>Erebia eriphyle</i> (FREYER, 1836)	0.99	0.64	0.99	0.99	0.01	0.65	0.35	385
516	<i>Erebia manto</i> ([SCHIFFERMÜLLER], 1775)	0.9	0.48	0.95	0.97	0.03	0.56	0.44	1353
518	<i>Erebia epiphron</i> (KNOCH, 1783)	0.84	0.38	0.88	0.90	0.10	0.64	0.36	3243
520	<i>Erebia pharte</i> (HÜBNER, 1804)	0.89	0.51	0.96	0.97	0.03	0.75	0.25	1356
522	<i>Erebia melampus</i> (FEUSSLI, 1775)	0.98	0.53	0.96	0.97	0.03	0.79	0.21	1421
524	<i>Erebia aethiops</i> (ESPER, 1777)	0.82	0.40	0.82	0.88	0.12	0.54	0.46	4523
526	<i>Erebia triaria</i> (DE PRUNNER, 1798)	0.81	0.36	0.94	0.96	0.04	0.50	0.50	1169
528	<i>Erebia embla</i> (BECKLIN, 1791)	0.97	0.70	0.96	0.98	0.02	0.76	0.24	3804
530	<i>Erebia disa</i> (BECKLIN, 1791)	0.99	0.72	0.99	0.99	0.01	0.72	0.28	1475
532	<i>Erebia medusa</i> (FABRICIUS, 1787)	0.9	0.49	0.85	0.91	0.09	0.56	0.44	4124
534	<i>Erebia alberganus</i> (DE PRUNNER, 1798)	0.87	0.42	0.96	0.97	0.03	0.49	0.51	1025
536	<i>Erebia pluto</i> (DE PRUNNER, 1798)	0.98	0.52	0.97	0.98	0.02	0.63	0.37	883
538	<i>Erebia gorge</i> (ESPER, 1805)	0.88	0.42	0.94	0.96	0.04	0.54	0.46	1706
540	<i>Erebia mnestra</i> (ESPER, 1805)	0.96	0.46	0.99	0.99	0.01	0.45	0.55	280
542	<i>Erebia epistygne</i> (HÜBNER, 1819)	0.91	0.22	0.99	1.00	0.00	0.17	0.83	172
544	<i>Erebia ottomana</i> (HERRICH-SCHÄFFER, 1847)	0.81	0.28	0.98	0.99	0.01	0.21	0.79	631
546	<i>Erebia tyndaris</i> (ESPER, 1781)	0.99	0.53	0.99	0.99	0.01	0.64	0.36	435
548	<i>Erebia cassioides</i> (REINER & HOHENWARTH, 1792) (complex)	0.8	0.35	0.95	0.97	0.03	0.40	0.60	1176
550	<i>Erebia pronoë</i> (ESPER, 1780)	0.89	0.42	0.94	0.96	0.04	0.57	0.43	1680
552	<i>Erebia spix</i> (FREYER, 1834)	0.95	0.36	0.98	0.99	0.01	0.40	0.60	429
554	<i>Erebia montana</i> (DE PRUNNER, 1798)	0.98	0.58	0.98	0.99	0.01	0.68	0.32	635
556	<i>Erebia neoridas</i> (BOISDUVAL, 1828)	0.93	0.52	0.97	0.98	0.02	0.63	0.38	677
558	<i>Erebia melas</i> (HERBST, 1796)	0.84	0.32	0.98	0.99	0.01	0.29	0.71	650
560	<i>Erebia oeeme</i> (ESPER, 1805)	0.89	0.38	0.95	0.97	0.03	0.39	0.61	1095
562	<i>Erebia meolans</i> (DE PRUNNER, 1798)	0.92	0.45	0.90	0.91	0.09	0.71	0.29	2758
564	<i>Erebia pandrose</i> (BORKHAUSEN, 1788)	0.86	0.62	0.93	0.95	0.05	0.73	0.27	4493

Page		AUC	Kappa	Diag	r.abs	f.pre	r.pre	f.abs	occupied cells
566	<i>Melanargia russiae</i> (ESPER, 1784)	0.85	0.33	0.92	0.94	0.06	0.44	0.56	1515
568	<i>Melanargia galathea</i> (LINNAEUS, 1758)	0.81	0.50	0.75	0.71	0.29	0.81	0.19	13958
570	<i>Melanargia lachesis</i> (HÜBNER 1790)	0.89	0.44	0.94	0.96	0.04	0.50	0.50	1394
572	<i>Melanargia larissa</i> (ESPER, 1784)	0.89	0.39	0.96	0.98	0.02	0.41	0.59	1121
574	<i>Melanargia arge</i> (SULZER, 1776)	0.98	0.44	0.97	0.98	0.02	0.64	0.36	617
576	<i>Melanargia ocitanica</i> (ESPER, 1793)	0.86	0.30	0.91	0.93	0.07	0.51	0.49	1405
578	<i>Melanargia ines</i> (HOFFMANSEGG, 1804)	0.95	0.37	0.94	0.96	0.04	0.48	0.52	1108
580	<i>Satyrus fernula</i> (FABRICIUS, 1793)	0.76	0.35	0.89	0.92	0.08	0.51	0.49	2203
582	<i>Satyrus actaea</i> (ESPER, 1780)	0.92	0.39	0.93	0.94	0.06	0.68	0.32	1618
584	<i>Minois dryas</i> (SCOPOLI, 1763)	0.83	0.43	0.84	0.91	0.09	0.52	0.48	4240
586	<i>Hipparchia fagi</i> (SCOPOLI, 1763)	0.83	0.39	0.78	0.79	0.21	0.72	0.28	6537
588	<i>Hipparchia hermione</i> (LINNAEUS, 1764)	0.72	0.31	0.83	0.89	0.11	0.45	0.55	3309
590	<i>Hipparchia syriaca</i> (STAUDINGER, 1871)	0.95	0.34	0.94	0.94	0.06	0.67	0.33	1919
592	<i>Hipparchia semele</i> (LINNAEUS, 1758)	0.79	0.43	0.71	0.63	0.37	0.82	0.18	13833
594	<i>Hipparchia volgensis</i> (MAZOCHIN-PORSHNYAKOV, 1952)	0.94	0.33	0.97	0.99	0.01	0.31	0.69	981
596	<i>Hipparchia statilinus</i> (HUFNAGEL, 1766)	0.76	0.33	0.76	0.79	0.21	0.61	0.39	6117
598	<i>Hipparchia fatina</i> (FREYER, 1845)	0.98	0.45	0.96	0.97	0.03	0.63	0.38	1024
600	<i>Hipparchia fláia</i> (LINNÆUS, 1767)	0.88	0.32	0.89	0.90	0.10	0.70	0.30	2192
602	<i>Hipparchia senilis</i> (FRUHSTORFER, 1908)	0.94	0.36	0.96	0.98	0.02	0.39	0.61	840
604	<i>Arthrosana arthusa</i> ([SCHIFFERMÜLLER], 1775)	0.77	0.32	0.80	0.82	0.18	0.63	0.37	5621
606	<i>Brintesia circe</i> (FABRICIUS, 1775)	0.81	0.42	0.77	0.78	0.22	0.73	0.27	7539
608	<i>Chazara briseis</i> (LINNAEUS, 1764)	0.8	0.34	0.74	0.75	0.25	0.70	0.30	7292
610	<i>Pseudochazarata anthelea</i> (LEEBBVRE, 1831)	0.9	0.52	0.98	0.99	0.01	0.58	0.42	818
612	<i>Oeneis noria</i> (BECKLIN, 1791)	0.98	0.58	0.97	0.98	0.02	0.70	0.30	2077
614	<i>Oeneis glacialis</i> (MOLL, 1785)	0.99	0.59	0.98	0.98	0.02	0.78	0.22	930
616	<i>Oeneis jutta</i> (HÜBNER, 1806)	0.96	0.68	0.94	0.95	0.05	0.86	0.14	5991
618	<i>Danaus chrysippus</i> (LINNAEUS, 1758)	0.89	0.36	0.97	0.98	0.02	0.50	0.50	412

Appendix 2 – Scenario results

Page	2050		2050		2050		2050		2080		2080		2080	
	full dispersal	full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	no dispersal	full dispersal	full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	SEDG
	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	SEDG
32	<i>Erynnis tages</i> (LINNAEUS, 1758)	-2873 (-16.22%)	-1786 (-13.47%)	-4268 (-10.09%)	-3834 (-24.1%)	-3203 (-21.65%)	-7225 (-18.09%)	-5429 (-40.8%)	-4695 (-26.51%)	-10729 (-30.66%)	-8408 (-60.59%)	-10729 (-47.48%)	-8408 (-37.35%)	-6615
34	<i>Erynnis maripoi</i> (BOISDUVAL, 1834)	-222 (-24.56%)	-240 (-26.55%)	-123 (-13.61%)	-631 (-69.8%)	-583 (-64.49%)	-521 (-57.63%)	-658 (-72.79%)	-572 (-63.27%)	-72 (-7.96%)	-862 (-95.35%)	-807 (-89.27%)	-807 (-89.27%)	-578 (-63.94%)
36	<i>Carcharodus alceae</i> (ESPER, 1780)	2940 (23.39%)	2554 (20.32%)	3884 (30.9%)	-1476 (-11.74%)	-1255 (-9.98%)	-568 (-4.52%)	-1188 (-9.45%)	-222 (-1.77%)	1889 (15.03%)	-6139 (48.83%)	-4815 (-38.3%)	-4815 (-38.3%)	-2106 (-16.75%)
38	<i>Carcharodus lanatherae</i> (ESPER, 1783)	-379 (-11.62%)	-132 (-4.05%)	-21 (-0.64%)	-1893 (-58.03%)	-1578 (-48.38%)	-1482 (-45.43%)	-454 (-13.92%)	-284 (8.71%)	1101 (33.75%)	-2792 (-85.59%)	-2409 (-73.85%)	-2409 (-73.85%)	-1978 (-60.64%)
40	<i>Carcharodus flocciferus</i> (ZELLER, 1847)	104 (2.47%)	1228 (29.15%)	460 (10.92%)	-1661 (-39.43%)	-1188 (-28.2%)	-1148 (-27.25%)	2972 (70.54%)	2427 (57.61%)	2641 (62.69%)	-2925 (-69.43%)	-2346 (-55.68%)	-2346 (-55.68%)	-1670 (-39.64%)
42	<i>Carcharodus orientalis</i> (REVERDIN, 1913)	-94 (-7.63%)	-119 (-9.66%)	-26 (-2.11%)	-695 (-56.41%)	-594 (-48.21%)	-611 (-49.59%)	-266 (-21.59%)	-435 (-35.31%)	255 (20.7%)	-1116 (-90.58%)	-972 (-78.9%)	-972 (-78.9%)	-729 (-59.17%)
44	<i>Carcharodus baeticus</i> (RAMBUR, 1840)	168 (40.58%)	75 (18.12%)	88 (21.26%)	-229 (-55.31%)	-233 (-56.28%)	-239 (-57.73%)	248 (59.9%)	138 (33.33%)	106 (25.6%)	-293 (-70.77%)	-288 (-69.57%)	-288 (-69.57%)	-275 (-66.43%)
46	<i>Spialia phlomidis</i> (HERICHH-SCHÄFFER, 1845)	-110 (-28.72%)	-88 (-22.98%)	-59 (-15.4%)	-260 (-67.89%)	-228 (-59.53%)	-195 (-50.91%)	-319 (-83.29%)	-262 (-68.41%)	27 (7.05%)	-381 (-99.48%)	-352 (-91.91%)	-352 (-91.91%)	-229 (-59.79%)
48	<i>Spialia sertorius</i> (HOFFMANSEGG, 1804)	-1114 (-16.46%)	-331 (-4.89%)	-426 (-6.29%)	-2425 (-35.83%)	-1755 (-25.93%)	-1771 (-26.17%)	-2218 (-32.77%)	-1006 (-14.86%)	-553 (-8.17%)	-4639 (-68.54%)	-3188 (-47.1%)	-3188 (-47.1%)	-2424 (-35.82%)
50	<i>Spialia orbiffr</i> (HÜBNER, 1823)	1211 (44.39%)	528 (19.35%)	2229 (81.71%)	-976 (-35.78%)	-987 (-36.18%)	-341 (-12.5%)	1443 (52.9%)	-59 (-2.16%)	1025 (37.5%)	-2000 (-73.31%)	-1848 (-67.74%)	-1848 (-67.74%)	-1188 (-43.55%)
52	<i>Syrichthus proto</i> (OCHSENHEIMER, 1808)	-1928 (-50.79%)	-1862 (-52.59%)	-1328 (-36.22%)	-2248 (-61.32%)	-2012 (-54.88%)	-1802 (-49.15%)	-2945 (-80.33%)	-3014 (-82.21%)	-1929 (-52.62%)	-3553 (-96.92%)	-3242 (-88.43%)	-3242 (-88.43%)	-2530 (-69.01%)

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	full dispersal	no dispersal	no dispersal	dispersal	dispersal	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU
54	<i>Syrichtus tessellum</i> (HÜBNER, 1803)	53 (5%)	-303 (-28.61%)	305 (28.8%)	-960 (-90.65%)	-938 (-88.57%)	-806 (-76.11%)	-736 (-69.5%)	-755 (-71.29%)	-270 (-25.5%)	-1059 (-100%)	-1058 (-99.91%)	-1058 (-99.91%)	-907 (-85.65%)	-907 (-85.65%)
56	<i>Drymus carthami</i> (HÜBNER, 1813)	-761 (-11.73%)	-770 (11.73%)	222 (3.38%)	-2712 (-41.3%)	-2415 (-36.8%)	-1952 (-29.74%)	-3285 (-50.05%)	-1787 (-27.23%)	-1051 (-16.01%)	-5563 (-84.76%)	-4285 (-65.29%)	-4285 (-65.29%)	-3471 (-52.89%)	-3471 (-52.89%)
58	<i>Drymus sidae</i> (ESPER, 1782)	-352 (-26.21%)	-427 (31.79%)	33 (2.46%)	-981 (-73.05%)	-917 (-68.28%)	-831 (-61.88%)	-384 (-28.59%)	-808 (-60.16%)	-178 (-13.25%)	-1328 (-98.88%)	-1286 (-95.76%)	-1286 (-95.76%)	-1051 (-78.26%)	-1051 (-78.26%)
60	<i>Drymus andromedae</i> (WALLENGREN, 1853)	-511 (-26.46%)	-280 (14.5%)	-512 (-22.37%)	-546 (-28.28%)	-546 (-18.44%)	-517 (-26.77%)	-584 (-30.4%)	-306 (-15.85%)	-425 (-22.01%)	-777 (-40.24%)	-542 (-28.07%)	-542 (-28.07%)	-586 (-30.35%)	-586 (-30.35%)
62	<i>Pygus cacatiae</i> (RAMBUR, 1840)	-312 (-27.06%)	-207 (17.95%)	-272 (-23.59%)	-400 (-34.69%)	-320 (-27.75%)	-368 (-31.92%)	-523 (-45.36%)	-336 (-29.14%)	-514 (-44.58%)	-719 (-62.36%)	-538 (-60.66%)	-538 (-60.66%)	-630 (-54.64%)	-630 (-54.64%)
64	<i>Pygus centaurae</i> (RAMBUR, 1840)	-1565 (-27.17%)	-1446 (25.1%)	-1313 (22.8%)	-1588 (-27.57%)	-1372 (-25.43%)	-1372 (-23.82%)	-3722 (-64.62%)	-2932 (-50.9%)	-1836 (-31.87%)	-3811 (-66.16%)	-3022 (-52.47%)	-3022 (-52.47%)	-2073 (-35.99%)	-2073 (-35.99%)
66	<i>Pygus malvae</i> (LINNAEUS, 1758) (species complex)	-2638 (-12.91%)	-2324 (11.37%)	-1529 (7.48%)	-4159 (20.35%)	-3586 (17.54%)	-3197 (15.64%)	-5554 (27.17%)	-4212 (20.61%)	-2288 (11.19%)	-10058 (49.21%)	-7735 (37.84%)	-7735 (37.84%)	-5349 (26.17%)	-5349 (26.17%)
68	<i>Pygus serrulatae</i> (RAMBUR, 1840)	-638 (-10.27%)	-450 (7.24%)	52 (0.84%)	-2411 (-38.79%)	-2061 (-33.16%)	-1871 (-30.1%)	-3008 (-48.4%)	-1483 (-23.86%)	-759 (-12.21%)	-4947 (-79.6%)	-3798 (-61.11%)	-3798 (-61.11%)	-2952 (-47.5%)	-2952 (-47.5%)
70	<i>Pygus onopordi</i> (RAMBUR, 1840)	-449 (-20.7%)	-306 (-14.11%)	-279 (-12.86%)	-1312 (-60.49%)	-1069 (-49.29%)	-1032 (-47.58%)	-373 (-17.2%)	-98 (-4.52%)	-197 (-24.08%)	-88 (4.06%)	-2079 (-95.85%)	-2079 (-95.85%)	-1395 (-73.86%)	-1395 (-73.86%)
72	<i>Pygus carthagine</i> (RAMBUR, 1840)	-133 (-16.26%)	-22 (2.69%)	-100 (-12.22%)	-506 (-61.86%)	-419 (-51.22%)	-481 (-58.8%)	-362 (-44.25%)	-197 (-24.08%)	-231 (-28.24%)	-703 (-85.94%)	-1602 (-75.06%)	-1602 (-75.06%)	-714 (-87.29%)	-714 (-87.29%)
74	<i>Pygus crassii</i> (RAMBUR, 1840)	-107 (-25.44%)	-524 (-12.04%)	-100 (-10.85%)	-472 (-44.42%)	-1933 (-30.47%)	-1326 (-30.01%)	-3080 (-70.77%)	-1773 (-40.74%)	-947 (-21.75%)	-3713 (-85.32%)	-2764 (-63.51%)	-2764 (-63.51%)	-1936 (-44.49%)	-1936 (-44.49%)
76	<i>Pygus armoricanus</i> (OBERTHÜR, 1910)	386 (5.8%)	362 (5.44%)	22 (16.16%)	-1076 (-40.42%)	-2691 (-36.11%)	-2404 (-30.79%)	-402 (-6.04%)	67 (1.01%)	987 (14.82%)	-5276 (-79.24%)	-4177 (-62.74%)	-4177 (-62.74%)	-3082 (-46.29%)	-3082 (-46.29%)
78	<i>Pygus alveus</i> (HÜBNER, 1803) (species complex)	-1796 (-16.46%)	-580 (5.32%)	-102 (-0.93%)	-3665 (-33.59%)	-2013 (-18.45%)	-2549 (-23.36%)	-246 (2.25%)	-1087 (9.96%)	-2539 (23.27%)	-6117 (56.06%)	-4815 (44.13%)	-4815 (44.13%)	-3680 (-33.72%)	-3680 (-33.72%)
80	<i>Pygus bellieri</i> (OBERTHÜR, 1910)	-109 (-26.85%)	-172 (-42.36%)	-180 (-44.33%)	-369 (-80.89%)	-338 (-83.25%)	-356 (-87.68%)	-113 (-27.83%)	-60 (-14.78%)	-242 (59.61%)	-406 (-100%)	-406 (-99.51%)	-406 (-99.51%)	-395 (-97.29%)	-395 (-97.29%)

Page		2050	2050	2050	2050	2050	2050	2080	2080	2080	2080	2080		
		full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	no dispersal	full dispersal	full dispersal	no dispersal	no dispersal	no dispersal		
	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG		
82	<i>Pyrgus warrenensis</i> (VERITY, 1928)	-537 (-31.1%)	-437 (-31.81%)	-447 (-45.84%)	-541 (-38.51%)	-568 (-40.43%)	-796 (-56.65%)	-655 (-46.62%)	-725 (-51.6%)	-997 (-70.96%)	-834 (-59.36%)	-954 (-67.9%)		
84	<i>Heteropterus</i> <i>morphenus</i> (PALLAS, 1771)	2282 (30.19%)	4028 (53.29%)	1974 (26.11%)	-2646 (-35%)	-1937 (-25.63%)	-2272 (-30.06%)	819 (10.83%)	2305 (30.49%)	1760 (23.28%)	-5718 (-75.64%)	-4136 (-54.72%)	-3238 (-44.03%)	
86	<i>Carrierocephalus</i> <i>pallidum</i> (PALLAS, 1771)	-1877 (-16.71%)	113 (1.01%)	-1722 (-15.33%)	-3570 (-31.78%)	-2117 (-18.85%)	-3397 (-30.24%)	-748 (-6.66%)	41 (0.37%)	696 (6.2%)	-4725 (42.07%)	-3528 (-31.41%)	-2961 (-26.36%)	
88	<i>Carrierocephalus</i> <i>silvicola</i> (MEIGEN, 1829)	-599 (-10.9%)	-919 (-16.73%)	-1008 (-18.35%)	-2200 (-40.05%)	-2273 (-41.38%)	-2364 (-43.04%)	-2565 (-46.7%)	-1746 (-31.79%)	-1928 (-35.1%)	-4642 (-44.51%)	-3780 (-68.81%)	-3609 (-65.7%)	
90	<i>Thymelicus lineola</i> (OCHSENHEIMER, 1806)	-2839 (-14.61%)	-2572 (-13.24%)	-1906 (-9.81%)	-4045 (-20.82%)	-3506 (-18.04%)	-3176 (-16.35%)	-7605 (-39.14%)	-5580 (-28.72%)	-3425 (-17.63%)	-10551 (-54.3%)	-7891 (-40.61%)	-5330 (-27.43%)	
92	<i>Thymelicus sylvestris</i> (POD, 1761)	-2283 (-18.52%)	-1880 (-15.25%)	-979 (-7.94%)	-4097 (-33.23%)	-3492 (-28.52%)	-2907 (-23.58%)	-5406 (-43.85%)	-4395 (-35.65%)	-3060 (-24.82%)	-8045 (-65.25%)	-6533 (-52.99%)	-4995 (-40.51%)	
94	<i>Thymelicus acteon</i> (ROTEMBURG, 1775)	-445 (-4.65%)	-456 (-4.54%)	222 (2.27%)	-2359 (-24.07%)	-2089 (-21.31%)	-1744 (-17.79%)	-2860 (-29.18%)	-2148 (-21.92%)	-827 (-8.44%)	-5473 (-55.84%)	-4352 (-44.4%)	-2875 (-44.4%)	-2933% (-29.33%)
96	<i>Hesperia comma</i> (LINNAEUS, 1758)	-2913 (-24.67%)	-2321 (-19.66%)	-1980 (-16.77%)	-4003 (-33.91%)	-3408 (-28.87%)	-3034 (-25.79%)	-7069 (-59.88%)	-5466 (-46.3%)	-4598 (-38.95%)	-9066 (-76.79%)	-7294 (-61.78%)	-6026 (-51.04%)	
98	<i>Ochlodes sylvanus</i> (ESPER, 1777)	-1398 (-6.8%)	-953 (-4.64%)	-726 (-3.53%)	-4058 (-19.74%)	-3309 (-16.1%)	-3276 (-15.94%)	-3892 (-18.94%)	-2082 (-10.13%)	-750 (-3.65%)	-9349 (-45.49%)	-6893 (-33.54%)	-4881 (-23.75%)	
100	<i>Geges pumilio</i> (HOFFMANSSEGG, 1804)	-39 (-7.43%)	-15 (-2.86%)	-11 (-2.1%)	-239 (-45.52%)	-201 (-38.29%)	-195 (-37.14%)	-223 (-42.48%)	-123 (-23.43%)	90 (17.14%)	-420 (-8.0%)	-342 (-65.14%)	-220 (-41.9%)	
102	<i>Geges</i> <i>nostrodamus</i> (FABRICIUS, 1793)	-718 (-58.61%)	-626 (-51.1%)	-927 (-75.67%)	-828 (-67.59%)	-805 (-65.71%)	-1035 (-84.49%)	-912 (-74.45%)	-731 (-59.67%)	-1216 (-74.45%)	-1142 (-99.27%)	-1005 (-93.22%)	-820.4% (-82.04%)	
104	<i>Zerynthia rumina</i> (LINNAEUS, 1767)	-1187 (-33.91%)	-1378 (-39.37%)	-802 (-22.91%)	-2196 (-62.74%)	-1932 (-55.2%)	-1847 (-52.77%)	-1967 (-60.54%)	-2119 (-60.2%)	-1574 (-44.97%)	-3405 (-79.29%)	-3078 (-87.94%)	-2617 (-74.77%)	

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS								
106	<i>Zerynthia polyxena</i> ([SCHIFFFER-MÜLLER, 1775])	3098 (63.24%)	3218 (65.69%)	3753 (76.61%)	-1499 (-30.6%)	-1107 (-22.6%)	-722 (-14.74%)	4141 (84.53%)	3432 (70.06%)	4158 (84.87%)	-3917 (-79.96%)	-3156 (-64.42%)	-1066 (-12.26%)	-1009 (-12.61%)	-782 (-6.04%)
108	<i>Zerynthia cerisyi</i> (GODART, 1822)	2080 (359.24%)	2079 (359.07%)	1685 (291.02%)	-23 (-3.97%)	-10 (-1.73%)	-11 (-1.9%)	4073 (703.45%)	3022 (521.93%)	2970 (512.95%)	-71 (-12.26%)	-73 (-12.61%)	-6269 (-68.82%)	-6269 (-68.82%)	-35 (-32.9%)
110	<i>Parnassius mnemosyne</i> (LINNAEUS, 1758)	-1983 (-21.77%)	-1793 (-19.68%)	-465 (5.1%)	-3222 (-35.37%)	-2980 (-32.71%)	-2308 (-23.75%)	-2163 (-27.84%)	-2536 (-27.84%)	-175 (-1.92%)	-7025 (-77.12%)	-71 (-77.12%)	-645 (-72.24%)	-645 (-72.24%)	-4413 (-48.45%)
112	<i>Parnassius phoebus</i> (FABRICIUS, 1793)	-314 (-28.21%)	-198 (-17.79%)	-275 (-24.71%)	-488 (-43.85%)	-388 (-34.86%)	-455 (-40.88%)	-574 (-51.57%)	-364 (-32.7%)	-526 (-47.26%)	-804 (-47.26%)	-804 (-72.24%)	-645 (-77.95%)	-645 (-77.95%)	-755 (-67.83%)
114	<i>Parnassius apollo</i> (LINNAEUS, 1758)	-2915 (-46.47%)	-2669 (-41.59%)	-1887 (-30.08%)	-3479 (-55.46%)	-3126 (-49.83%)	-2568 (-40.94%)	-3972 (-63.32%)	-319 (-52.91%)	-2234 (-35.61%)	-4758 (-35.61%)	-4758 (-75.85%)	-4758 (-75.85%)	-4758 (-66.59%)	-3431 (-54.69%)
116	<i>Iphiclides podalirius</i> (LINNAEUS, 1758)	3058 (29.47%)	3818 (36.79%)	4099 (39.5%)	-1226 (-11.81%)	-852 (-8.21%)	-483 (-6.65%)	-483 (-33.08%)	-3433 (-29.92%)	3105 (-42.2%)	4380 (-42.2%)	-4169 (-40.17%)	-3182 (-30.66%)	-3182 (-30.66%)	-1186 (-11.43%)
118	<i>Papilio machaon</i> (LINNAEUS, 1758)	1346 (6.31%)	1206 (5.65%)	1744 (8.18%)	-742 (-3.48%)	-428 (-2.01%)	-449 (-2.18%)	-227 (-1.06%)	-1066 (5%)	-2319 (12.36%)	-4167 (19.53%)	-4167 (-19.53%)	-4167 (-11.94%)	-4167 (-11.94%)	-809 (-3.79%)
120	<i>Papilio alexandor</i> Esper, 1799	-278 (-40.47%)	-277 (-40.32%)	-224 (-32.61%)	-454 (-66.08%)	-436 (-63.46%)	-404 (-58.81%)	-462 (-67.25%)	-380 (-55.31%)	-257 (-37.41%)	-592 (-37.41%)	-534 (-86.17%)	-534 (-77.73%)	-534 (-66.23%)	-455 (-66.23%)
122	<i>Leptidea sinapis</i> (LINNAEUS, 1758) <i>/ realis</i> REISSINGER, 1990 (complex)	97 (0.54%)	236 (1.3%)	1829 (10.09%)	-3575 (-19.72%)	-2733 (-15.08%)	-2394 (-13.21%)	-795 (4.39%)	1117 (6.16%)	2744 (15.14%)	-7192 (-39.68%)	-5664 (-31.25%)	-5664 (-20.46%)	-5664 (-20.46%)	-3709 (-20.46%)
124	<i>Leptidea daponcheli</i> (STAUDINGER, 1871)	22 (1.97%)	-186 (-16.65%)	221 (19.79%)	-856 (-76.63%)	-812 (-72.69%)	-712 (-63.74%)	-594 (-53.18%)	-628 (-56.22%)	32 (2.86%)	-1066 (-95.43%)	-1009 (-90.33%)	-1009 (-90.33%)	-1009 (-70.01%)	-782 (-70.01%)
126	<i>Leptidea mormei</i> (FESTON, 1881)	188 (12%)	761 (48.56%)	370 (23.61%)	-1154 (-73.64%)	-988 (-63.05%)	-893 (-56.99%)	293 (-18.7%)	196 (-12.51%)	-133 (-8.49%)	-1416 (-90.36%)	-1328 (-84.75%)	-1328 (-84.75%)	-1328 (-76.45%)	-1198 (-76.45%)
128	<i>Anthocharis cardamines</i> (LINNAEUS, 1758)	-2928 (-15.58%)	-2021 (-10.75%)	-1416 (-7.53%)	-4787 (-25.47%)	-3707 (-19.72%)	-3168 (-16.86%)	-6918 (-36.81%)	-4765 (-25.35%)	-2159 (-11.49%)	-10040 (-53.42%)	-7476 (-39.78%)	-7476 (-39.78%)	-4447 (-23.66%)	-4447 (-23.66%)

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS								
130	<i>Anthocharis euphenoides</i> STAUDINGER, 1869	-1374 (-46.26%)	-1299 (-43.74%)	-989 (-33.3%)	-2012 (-67.74%)	-1763 (-59.36%)	-1744 (-58.72%)	-1956 (-65.86%)	-1948 (-65.59%)	-1313 (-44.21%)	-2887 (-97.21%)	-2614 (-88.01%)	-2309 (-77.74%)	-2614 (-88.01%)	-2309 (-77.74%)
132	<i>Anthocharis granata</i> HERRICH-SCHÄFFER, 1851	-356 (-35.71%)	-330 (-33.1%)	-266 (-26.68%)	-696 (-69.81%)	-648 (-64.99%)	-613 (-61.48%)	-773 (-77.53%)	-666 (-66.8%)	-224 (-22.47%)	-971 (-97.39%)	-888 (-89.07%)	-695 (-69.71%)	-888 (-89.07%)	-695 (-69.71%)
134	<i>Zegris eupheme</i> (ESPER, 1805)	-456 (-53.15%)	-336 (-62.47%)	-411 (-47.9%)	-580 (-67.6%)	-562 (-65.5%)	-520 (-60.61%)	-849 (-98.95%)	-837 (-97.55%)	-765 (-89.16%)	-849 (-98.95%)	-837 (-97.55%)	-766 (-89.28%)	-837 (-97.55%)	-766 (-89.28%)
136	<i>Euchloe belemia</i> (ESPER, 1798)	-400 (-57.55%)	-424 (-61.01%)	-289 (-41.58%)	-446 (-64.17%)	-432 (-62.16%)	-377 (-54.24%)	-649 (-93.38%)	-607 (-87.34%)	-338 (-48.63%)	-670 (-96.4%)	-626 (-90.07%)	-495 (-71.22%)	-626 (-90.07%)	-495 (-71.22%)
138	<i>Euchloe ausonia</i> (HÜBNER, 1806) (complex)	586 (13.07%)	-91 (-2.03%)	742 (16.55%)	-1029 (-22.95%)	-1080 (-24.09%)	-802 (-17.89%)	-265 (-5.91%)	-327 (-7.29%)	338 (7.54%)	-2472 (-55.14%)	-2058 (-45.91%)	-1439 (-32.1%)	-2058 (-45.91%)	-1439 (-32.1%)
140	<i>Euchloe tagis</i> (HÜBNER, 1804)	-794 (-25.19%)	-999 (-31.69%)	-590 (-18.72%)	-1692 (-53.68%)	-1507 (-47.81%)	-1537 (-48.76%)	-1749 (-55.49%)	-1535 (-48.7%)	-920 (-29.19%)	-2743 (-87.02%)	-2350 (-74.56%)	-1943 (-61.64%)	-2743 (-87.02%)	-1943 (-61.64%)
142	<i>Aporia crataegi</i> (LINNAEUS, 1758)	-1530 (-8.14%)	-703 (-3.74%)	-661 (-3.52%)	-3266 (-17.39%)	-2451 (-13.05%)	-2426 (-12.91%)	-3323 (-17.69%)	-2410 (-12.83%)	-1604 (-8.54%)	-8101 (-43.12%)	-6143 (-32.7%)	-4323 (-23.01%)	-8101 (-43.12%)	-4323 (-23.01%)
144	<i>Pieris brasiliaca</i> (LINNAEUS, 1758)	-3241 (-13.8%)	-3133 (-13.34%)	-1904 (-8.11%)	-4419 (-18.82%)	-4027 (-17.15%)	-3228 (-13.75%)	-8906 (-37.93%)	-6368 (-27.12%)	-3429 (-14.6%)	-11751 (-50.04%)	-8473 (-36.08%)	-5640 (-24.02%)	-11751 (-50.04%)	-5640 (-24.02%)
146	<i>Pieris krueperi</i> (STAUDINGER, 1860)	-25 (-1.9%)	-25 (0.84%)	11 (16.44%)	-216 (-53.12%)	-698 (-45.97%)	-604 (-47.11%)	-619 (-2.74%)	36 (-10.73%)	-141 (33.94%)	446 (-78.61%)	-1033 (-68.49%)	-900 (-56.93%)	-748 (-68.49%)	-900 (-56.93%)
148	<i>Pieris manni</i> (MAYER, 1851)	222 (12.98%)	221 (12.51%)	214 (46.96%)	-803 (-41.87%)	-716 (-33.45%)	-572 (-41.87%)	711 (41.58%)	639 (37.37%)	616 (36.02%)	-1497 (-87.54%)	-1318 (-77.08%)	-968 (-56.61%)	-1497 (-87.54%)	-968 (-56.61%)
150	<i>Pieris rapae</i> (LINNAEUS, 1758)	-891 (-3.69%)	-690 (-2.86%)	82 (0.34%)	-2258 (-9.35%)	-1742 (-7.22%)	-1502 (-6.22%)	-4088 (-16.93%)	-3119 (-12.92%)	-670 (-2.78%)	-8043 (-33.31%)	-6008 (-24.89%)	-3296 (-13.65%)	-8043 (-33.31%)	-3296 (-13.65%)
152	<i>Pieris ergane</i> (GEYER, 1828)	-90 (-4.19%)	-101 (-4.71%)	94 (4.38%)	-1043 (-43.43%)	-932 (-36.63%)	-786 (-24.56%)	519 (24.18%)	223 (10.39%)	527 (-2.78%)	-1894 (-88.26%)	-1684 (-78.47%)	-1157 (-53.91%)	-1894 (-88.26%)	-1157 (-53.91%)
154	<i>Pieris napi</i> (LINNAEUS, 1758)	-3275 (-9.44%)	-2497 (-9.61%)	-2543 (-14.43%)	-3819 (-11.42%)	-3022 (-11.51%)	-3045 (-28.66%)	-7583 (-20.36%)	-5386 (-14.43%)	-3817 (-31.19%)	-8253 (-22.91%)	-6063 (-22.91%)	-4424 (-16.72%)	-8253 (-22.91%)	-4424 (-16.72%)

Page			2050		2050		2050		2050		2080		2080		2080		
			full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	no dispersal	full dispersal	full dispersal	full dispersal	full dispersal	GRAS	BAMBU	GRAS	BAMBU	SEDG
	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU
156	<i>Pteris bryonioidae</i> (HÜBNER, 1791)	-521 (-44.04%)	-320 (-27.05%)	-421 (-35.59%)	-594 (-50.21%)	-418 (-35.35%)	-520 (-35.96%)	-303 (-25.61%)	-197 (-16.65%)	-312 (-26.37%)	-844 (-71.34%)	-655 (-55.37%)	-637 (-53.85%)	-637	-637	-637	
158	<i>Pontia callidice</i> (HÜBNER, 1800)	-211 (-23.58%)	-97 (-10.89%)	-182 (-20.43%)	-370 (-41.53%)	-296 (-33.22%)	-347 (-38.95%)	-481 (-53.98%)	-280 (-31.43%)	-452 (-50.73%)	-682 (-76.54%)	-509 (-57.13%)	-639 (-71.72%)	-639	-639	-639	
160	<i>Pontia daplidice</i> (LINNAEUS, 1758) <i>/ celusa</i> (FABRICIUS, 1777) (complex)	3493 (22.82%)	1973 (12.89%)	4490 (29.33%)	-842 (-5.5%)	-918 (-6%)	-364 (-2.38%)	-1327 (-8.67%)	-157 (-1.03%)	3091 (20.19%)	-7478 (-48.84%)	-5708 (-37.28%)	-2391 (-15.62%)	-2391	-2391	-2391	
162	<i>Colias philodice</i> (ESPER, 1780)	-432 (-30.36%)	-209 (-14.69%)	-306 (-21.5%)	-611 (-42.94%)	-450 (-31.62%)	-513 (-36.05%)	-665 (-46.73%)	-426 (-29.94%)	-562 (-39.49%)	-1017 (-71.47%)	-781 (-54.88%)	-890 (-62.54%)	-890	-890	-890	
164	<i>Colias paludicola</i> (LINNAEUS, 1761)	-3095 (-31.31%)	-2799 (-28.31%)	-2875 (-29.08%)	-3361 (-34%)	-3063 (-30.98%)	-3210 (-32.47%)	-5087 (-51.46%)	-4202 (-42.5%)	-3370 (-34.09%)	-5433 (-54.96%)	-4562 (-46.15%)	-3889 (-39.34%)	-3889	-3889	-3889	
166	<i>Colias erate</i> (ESPER, 1805)	1982 (82.279%)	815 (34.04%)	2797 (116.83%)	-989 (-41.31%)	-1199 (-50.08%)	-331 (-13.83%)	44 (1.84%)	-317 (-13.24%)	1379 (57.6%)	-2260 (-94.4%)	-2059 (-86.01%)	-1160 (-48.45%)	-1160	-1160	-1160	
168	<i>Colias croceus</i> (GEOFFROY, 1785)	-420 (-2.59%)	-123 (-0.76%)	-1037 (-6.41%)	-2931 (-18.11%)	-2525 (-15.6%)	-1750 (-10.81%)	-4329 (-26.75%)	-3091 (-19.1%)	-962 (-5.94%)	-7460 (-46.09%)	-5896 (-36.43%)	-3518 (-21.74%)	-3518	-3518	-3518	
170	<i>Colias hecla</i> LEFEVRE, 1836	-784 (-80%)	-767 (-78.27%)	-736 (-75.1%)	-805 (-82.14%)	-791 (-80.71%)	-785 (-80.1%)	-963 (-98.27%)	-931 (-95%)	-828 (-84.49%)	-964 (-98.37%)	-949 (-96.84%)	-879 (-89.69%)	-879	-879	-879	
172	<i>Colias myrmidone</i> (ESPER, 1780)	-1528 (-35.94%)	-2181 (-51.29%)	-329 (-7.74%)	-2196 (-51.65%)	-2616 (-61.52%)	-1351 (-31.77%)	-2667 (-62.72%)	-2971 (-69.87%)	-1896 (-44.59%)	-4048 (-95.2%)	-3887 (-91.42%)	-3193 (-75.09%)	-3193	-3193	-3193	
174	<i>Colias chrysosthemis</i> (ESPER, 1780)	463 (61.57%)	-246 (-32.71%)	416 (-55.32%)	-559 (-74.34%)	-565 (-75.13%)	-489 (-65.03%)	-550 (-73.14%)	-490 (-65.16%)	-519 (-69.02%)	-733 (-97.47%)	-707 (-94.02%)	-665 (-88.43%)	-665	-665	-665	
176	<i>Colias hyale</i> (LINNAEUS, 1758)	-786 (-6.27%)	-305 (-2.43%)	-437 (-3.49%)	-3393 (-27.07%)	-2961 (-23.62%)	-2793 (-22.28%)	-3035 (-24.21%)	-1777 (-14.18%)	-905 (-7.22%)	-9284 (-74.06%)	-7208 (-57.5%)	-5229 (-41.72%)	-5229	-5229	-5229	
178	<i>Colias alfacarensis</i> RIBBE, 1905	-144 (-1.49%)	32 (0.33%)	-246 (-3.49%)	-3278 (-33.98%)	-2997 (-31.06%)	-2101 (-21.78%)	-2461 (-25.51%)	-1547 (-16.03%)	-812 (-8.42%)	-6649 (-68.92%)	-5409 (-56.06%)	-4054 (-42.02%)	-4054	-4054	-4054	
180	<i>Gonepteryx rhamni</i> (LINNAEUS, 1758)	-1973 (-9.58%)	-1593 (-7.73%)	-1084 (-5.26%)	-4092 (-19.87%)	-3440 (-15.67%)	-3228 (-20.13%)	-4146 (-12.4%)	-2555 (-5.66%)	-1165 (-46.05%)	-9486 (-34.09%)	-7022 (-34.09%)	-4835 (-23.47%)	-4835	-4835	-4835	
182	<i>Gonepteryx farinosa</i> ZELLER, 1847	84 (13.02%)	75 (11.63%)	89 (13.8%)	-231 (-35.81%)	-188 (-29.15%)	-189 (-29.3%)	-144 (-22.33%)	-27 (-4.19%)	334 (51.78%)	-519 (-80.47%)	-369 (-57.21%)	-210 (-32.56%)	-210	-210	-210	

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		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
184	<i>Gonepteryx cleopatra</i> (LINNAEUS, 1767)	-31 (-0.73%)	-595 (-14%)	-17 (-0.4%)	-1653 (-38.9%)	-1527 (-35.94%)	-1417 (-33.35%)	-1293 (-30.43%)	-1013 (-23.84%)	-143 (-3.37%)	-3250 (-76.49%)	-143 (-61.11%)	-3250 (-61.69%)	-2621 (-45.14%)	-1918 (-45.14%)
186	<i>Lycaena phlaeas</i> (LINNAEUS, 1761)	-3923 (-16.93%)	-4048 (-16.41%)	-2168 (-9.07%)	-4776 (-19.97%)	-4602 (-19.25%)	-3372 (-14.1%)	-11453 (-47.9%)	-8526 (-35.66%)	-5057 (-21.15%)	-13177 (-55.11%)	-13177 (-42.18%)	-10086 (-42.18%)	-6765 (-28.29%)	-6765 (-45.99%)
188	<i>Lycaena helle</i> ([SCHIFFER-MÜLLER], 1775)	-41 (-1.68%)	229 (9.39%)	159 (6.52%)	-686 (28.13%)	-487 (19.97%)	-563 (23.08%)	-466 (-19.11%)	-36 (-1.48%)	-197 (-8.08%)	-1201 (-49.24%)	-1201 (-39.69%)	-968 (-39.69%)	-1073 (-43.99%)	-1073 (-43.99%)
190	<i>Lycaena dispar</i> (HAWORTH, 1803)	2980 (37.03%)	3583 (44.52%)	2192 (27.24%)	-1764 (-21.92%)	-1262 (-15.68%)	-1539 (-19.12%)	4375 (54.36%)	4992 (62.03%)	3656 (45.43%)	-4188 (-52.04%)	-3071 (-38.16%)	-3071 (-38.16%)	-2587 (-32.14%)	-2587 (-32.14%)
192	<i>Lycaena virgaureae</i> (LINNAEUS, 1758)	-3078 (-20.77%)	-2665 (-17.98%)	-780 (-5.26%)	-4622 (-31.18%)	-3876 (-26.15%)	-2762 (-18.63%)	-7216 (-48.68%)	-5416 (-36.54%)	-2694 (-18.18%)	-10671 (-71.99%)	-10671 (-71.99%)	-8571 (-57.83%)	-6097 (-41.13%)	-6097 (-41.13%)
194	<i>Lycaena ottomanus</i> (LEFEBVRE, 1830)	102 (21.56%)	102 (15.22%)	72 (21.78%)	-247 (-52.22%)	-204 (-43.13%)	-182 (-38.48%)	-89 (-18.82%)	-54 (-11.42%)	-264 (55.81%)	-405 (-85.62%)	-346 (-73.15%)	-346 (-73.15%)	-346 (-46.51%)	-220 (-46.51%)
196	<i>Lycaena tityrus</i> (Pods, 1761)	-1329 (-11.9%)	-636 (-5.69%)	119 (1.07%)	-4083 (-36.55%)	-3400 (-30.43%)	-2721 (-24.36%)	-4194 (-37.54%)	-3278 (-29.34%)	-2294 (-20.53%)	-8250 (-73.85%)	-8250 (-73.85%)	-6816 (-61.01%)	-5357 (-47.95%)	-5357 (-47.95%)
198	<i>Lycaena alciphron</i> (ROTTERMBURG, 1775)	-2959 (-32.47%)	-2988 (-32.79%)	-503 (-5.52%)	-4292 (-47.1%)	-3855 (-42.3%)	-2545 (-27.93%)	-4303 (-47.22%)	-4297 (-47.15%)	-1861 (-20.42%)	-7612 (-83.53%)	-6740 (-73.96%)	-6740 (-73.96%)	-5247 (-57.58%)	-5247 (-57.58%)
200	<i>Lycaena hippothoe</i> (LINNAEUS, 1761)	-4808 (-34.08%)	-3282 (-23.26%)	-4111 (-29.14%)	-6020 (-42.67%)	-4839 (-34.3%)	-5600 (-39.69%)	-8606 (-61%)	-6505 (-46.11%)	-5935 (-42.07%)	-9862 (-69.9%)	-9862 (-69.9%)	-8317 (-58.95%)	-7427 (-52.64%)	-7427 (-52.64%)
202	<i>Lycaena candens</i> (HERICH-SCHÄFFER, 1844)	-75 (-11.42%)	-161 (-24.51%)	192 (29.22%)	-414 (-63.01%)	-376 (-57.23%)	-289 (-43.99%)	-394 (-59.97%)	-391 (-59.51%)	-70 (10.65%)	-624 (-94.98%)	-624 (-80.33%)	-564 (-69.15%)	-564 (-85.84%)	-343 (-52.21%)
204	<i>Lycaena thersamon</i> (ESPER, 1784)	1838 (40.44%)	1632 (35.91%)	2941 (64.71%)	-1584 (-34.85%)	-1421 (-31.27%)	-757 (-16.66%)	2058 (45.28%)	574 (12.63%)	2327 (51.2%)	-3651 (-80.33%)	-3143 (-69.15%)	-3143 (-69.15%)	-1739 (-38.26%)	-1739 (-38.26%)
206	<i>Thelida betulae</i> (LINNAEUS, 1758)	-2925 (-22.66%)	-1298 (-10.06%)	-2243 (-17.38%)	-4462 (-34.57%)	-3214 (-24.9%)	-3619 (-28.04%)	-5029 (-38.96%)	-3110 (-24.09%)	-3697 (-28.64%)	-9532 (-73.85%)	-9532 (-73.85%)	-6912 (-53.55%)	-5889 (-45.62%)	-5889 (-45.62%)
208	<i>Favonius quercus</i> (LINNAEUS, 1758)	-3105 (-22.36%)	-2778 (-20.01%)	-2079 (-14.97%)	-4170 (-30.03%)	-3767 (-27.13%)	-3083 (-22.29%)	-7703 (-55.47%)	-6242 (-44.95%)	-4962 (-35.73%)	-9184 (-66.14%)	-7466 (-53.77%)	-7466 (-53.77%)	-5822 (-41.93%)	-5822 (-41.93%)

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
210	<i>Laeosopsis roboris</i> (ESPER, 1793)	-1551 (-46.32%)	-1864 (-38.54%)	-912 (-22.66%)	-2621 (-65.13%)	-2456 (-61.03%)	-2173 (-54%)	-2757 (-68.51%)	-2535 (-63%)	-1773 (-44.06%)	-3709 (-92.17%)	-3335 (-82.88%)	-2963 (-73.63%)	-358	
212	<i>Tomares ballus</i> (FABRICIUS, 1787)	-316 (-74.56%)	-296 (-71.79%)	-285 (-85.89%)	-341 (-79.35%)	-315 (-77.83%)	-309 (-97.23%)	-386 (-85.64%)	-340 (-77.83%)	-309 (-92.14%)	-394 (-92.7%)	-368 (-92.7%)	-358 (-90.18%)		
214	<i>Calliphrys rubi</i> (LINNAEUS, 1758)	-4049 (-18.94%)	-3921 (-12.16%)	-2600 (-22.65%)	-4842 (-20.99%)	-4487 (-15.91%)	-3401 (-47.76%)	-10212 (-35.41%)	-7570 (-19.7%)	-4212 (-35.77%)	-11497 (-53.77%)	-8595 (-40.2%)	-5250 (-24.56%)		
216	<i>Calliphrys avis</i> CHAPMAN, 1909	-275 (-63.51%)	-320 (-73.9%)	-283 (-65.36%)	-390 (-90.07%)	-378 (-87.3%)	-386 (-89.15%)	-243 (-56.12%)	-303 (-69.98%)	-294 (-67.9%)	-425 (-98.15%)	-415 (-95.84%)	-408 (-94.23%)		
218	<i>Satyrium w-album</i> (KNOCH, 1782)	-2827 (-25.46%)	-2141 (-19.28%)	-1917 (-17.27%)	-3629 (-32.68%)	-2955 (-26.61%)	-2641 (-23.79%)	-7380 (-66.47%)	-5644 (-50.83%)	-4836 (-43.56%)	-8657 (-77.97%)	-6698 (-60.33%)	-5477 (-49.33%)		
220	<i>Satyrium pruni</i> (LINNAEUS, 1758)	-404 (-3.29%)	1089 (8.88%)	-289 (-2.36%)	-3596 (-29.31%)	-2245 (-18.3%)	-3101 (-25.27%)	-2244 (-18.29%)	-702 (-5.72%)	-295 (-2.08%)	-7988 (-65.1%)	-6066 (-49.44%)	-4671 (-38.07%)		
222	<i>Satyrium spini</i> (FABRICIUS, 1787)	-1547 (-18.11%)	-2078 (-24.33%)	5 (0.06%)	-3552 (-41.59%)	-3494 (-40.91%)	-2382 (-27.89%)	-1885 (-22.07%)	-2494 (-29.29%)	-695 (-8.14%)	-6706 (-78.52%)	-5899 (-69.0%)	-4290 (-50.23%)		
224	<i>Satyrium ilicis</i> (ESPER, 1779)	-966 (-8.9%)	-613 (-5.65%)	-164 (-1.51%)	-3370 (-31.04%)	-2924 (-26.3%)	-2441 (-22.49%)	-433 (-39.91%)	-3154 (-29.05%)	-2100 (-19.34%)	-7136 (-65.73%)	-5618 (-51.75%)	-4264 (-39.28%)		
226	<i>Satyrium esculi</i> (HÜBNER, 1804)	-1549 (-51.46%)	-1649 (-54.78%)	-1000 (-33.22%)	-2151 (-71.46%)	-1938 (-64.39%)	-1760 (-58.47%)	-2014 (-66.91%)	-2208 (-73.36%)	-1726 (-57.34%)	-2998 (-99.6%)	-2811 (-78.52%)	-2448 (-81.33%)		
228	<i>Satyrium acaciae</i> (FABRICIUS, 1787)	-399 (-5.13%)	-492 (-6.32%)	1205 (15.48%)	-3340 (-42.91%)	-2953 (-37.94%)	-2303 (-29.59%)	-2206 (-28.34%)	-1287 (-16.53%)	57 (0.73%)	-6127 (-78.71%)	-5311 (-68.23%)	-3942 (-50.64%)		
230	<i>Lamprodes boeticus</i> (LINNAEUS, 1767)	950 (14.89%)	815 (12.77%)	1279 (20.04%)	-1240 (-19.43%)	-1156 (-18.12%)	-1030 (-16.14%)	-722 (-11.31%)	10 (0.16%)	885 (13.87%)	-3666 (-57.45%)	-2770 (-93.39%)	-1663 (-43.41%)	-2448 (-26.06%)	
232	<i>Cacyreus marshalli</i> (BUTLER, 1898)	-310 (-38.75%)	-277 (-34.62%)	-207 (-25.87%)	-557 (-69.62%)	-464 (-58%)	-437 (-54.62%)	-629 (-78.62%)	-592 (-74%)	-661 (-82.62%)	-800 (-100%)	-780 (-97.2%)	-746 (-93.25%)		
234	<i>Lepidochrysops pirithous</i> (LINNAEUS, 1767)	654 (11.95%)	259 (4.73%)	998 (18.23%)	-1120 (-20.46%)	-868 (-15.85%)	-759 (-13.86%)	838 (15.31%)	-30 (-0.55%)	800 (14.61%)	-3855 (-70.41%)	-2922 (-53.37%)	-1775 (-32.42%)		
236	<i>Zizera marissana</i> (TRIMEN, 1862)	-619 (-75.3%)	-619 (-64.23%)	-528 (-81.02%)	-666 (-78.22%)	-643 (-70.8%)	-437 (-86.5%)	-711 (-92.34%)	-575 (-69.95%)	-815 (-91.15%)	-797 (-90.96%)	-708 (-86.13%)			
238	<i>Capido minimus</i> (FUSSIX, 1775)	-3245 (-24.15%)	-2256 (-16.79%)	-2124 (-15.81%)	-4134 (-30.77%)	-3275 (-24.57%)	-3032 (-22.56%)	-6299 (-46.88%)	-4491 (-33.42%)	-4157 (-30.94%)	-8702 (-64.76%)	-6672 (-49.65%)	-5451 (-40.57%)		

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS
240	<i>Cupido osiris</i> (MEIGEN, 1829)	-566 (-50.72%)	-506 (-45.34%)	-470 (-42.11%)	-961 (-86.11%)	-847 (-75.9%)	-810 (-72.58%)	-373 (-33.42%)	-427 (-38.26%)	-154 (-13.8%)	-1101 (-98.66%)	-1039 (-93.1%)	-1003 (-89.87%)	-5685 (-37.83%)	-5685 (-37.83%)
242	<i>Cupido argiades</i> (PALLAS, 1771)	746 (4.96%)	1387 (9.23%)	1445 (9.62%)	-2692 (-17.92%)	-2139 (-14.24%)	-1822 (-12.13%)	626 (4.17%)	1482 (9.86%)	1257 (8.37%)	-7883 (-52.46%)	-7883 (-52.46%)	-3979 (-26.48%)	-5685 (-37.83%)	-5685 (-37.83%)
244	<i>Cupido decoloratus</i> (STAUDINGER, 1886)	147 (7.21%)	-308 (-15.1%)	775 (37.99%)	-1582 (-77.55%)	-1568 (-76.86%)	-940 (-46.08%)	-879 (-43.09%)	-933 (-45.74%)	-651 (-31.91%)	-2031 (-99.56%)	-2007 (-98.38%)	-1757 (-86.13%)	-5685 (-37.83%)	-5685 (-37.83%)
246	<i>Cupido alcetas</i> (HOFFMANNSEGG, 1804)	473 (21.42%)	796 (36.05%)	321 (14.54%)	-933 (-42.26%)	-717 (-32.47%)	-714 (-32.34%)	1325 (60.01%)	1782 (80.71%)	1589 (71.97%)	-1785 (-80.84%)	-1328 (-60.14%)	-1036 (-46.92%)	-5685 (-37.83%)	-5685 (-37.83%)
248	<i>Celatrina argiolus</i> (LINNAEUS, 1758)	-2795 (-13.69%)	-2646 (-12.96%)	-1703 (-8.34%)	-4341 (-21.26%)	-3670 (-17.97%)	-3387 (-16.59%)	-6682 (-32.72%)	-5101 (-24.98%)	-2427 (-11.88%)	-10036 (-49.14%)	-7524 (-36.84%)	-4943 (-24.2%)	-5685 (-36.84%)	-5685 (-36.84%)
250	<i>Scolitantides orion</i> (BERGSTRÄSSER, 1779)	-401 (-15.17%)	15 (0.57%)	-226 (-8.55%)	-1295 (-49%)	-964 (-36.47%)	-1037 (-39.24%)	-847 (-32.05%)	-88 (-3.33%)	-81 (-3.06%)	-2209 (-83.58%)	-1433 (-54.22%)	-1179 (-44.61%)	-5685 (-36.84%)	-5685 (-36.84%)
252	<i>Scolitantides vittatum</i> (MOORE, 1865)	1968 (36.49%)	383 (7.1%)	2985 (55.35%)	-962 (-17.84%)	-1599 (-29.65%)	-353 (-6.55%)	2622 (48.62%)	309 (5.73%)	2198 (40.76%)	-3135 (-58.13%)	-2974 (-55.15%)	-1457 (-27.02%)	-5685 (-36.84%)	-5685 (-36.84%)
254	<i>Scolitantides abencerragus</i> (PIERRET, 1837)	-1074 (-40.09%)	-1287 (-21.16%)	567 (-54.27%)	-1454 (-49.07%)	-1366 (-42.52%)	-1068 (-39.72%)	-2531 (-16.36%)	-2301 (-28.97%)	-1568 (-71.73%)	-2614 (-58.53%)	-2392 (-97.57%)	-1822 (-89.29%)	-5685 (-68.01%)	-5685 (-68.01%)
256	<i>Scolitantides bauvinus</i> (EVERSMANN, 1832)	74 (17.29%)	36 (8.41%)	142 (33.18%)	-210 (-49.07%)	-182 (-42.52%)	-170 (-39.72%)	-70 (-16.36%)	-124 (-28.97%)	307 (71.73%)	-406 (-94.86%)	-406 (-77.34%)	-331 (-53.74%)	-5685 (-68.01%)	-5685 (-68.01%)
258	<i>Scolitantides orion</i> (PALLAS, 1771)	-1532 (-24.43%)	-1291 (-20.59%)	-24 (-0.38%)	-2699 (-43.05%)	-2663 (-42.47%)	-1835 (-29.27%)	-2649 (-42.25%)	-2659 (-42.41%)	-1446 (-23.06%)	-5527 (-88.15%)	-4917 (-78.42%)	-3844 (-61.31%)	-5685 (-68.01%)	-5685 (-68.01%)
260	<i>Scolitantides panoptes</i> (HÜBNER, 1813)	-1146 (-76.76%)	-1124 (-75.28%)	-867 (-58.07%)	-1207 (-80.84%)	-1130 (-75.69%)	-971 (-65.04%)	-1493 (-100%)	-1493 (-100%)	-1324 (-88.68%)	-1324 (-100%)	-1493 (-100%)	-1493 (-100%)	-1344 (-90.02%)	-1344 (-90.02%)
262	<i>Glaucopsyche alexis</i> (Poda, 1761)	1267 (12.98%)	2034 (8.08%)	2477 (15.8%)	-2065 (-13.17%)	-1448 (-9.24%)	-1128 (-7.29%)	1591 (10.15%)	1588 (10.13%)	3155 (20.13%)	-6785 (-43.28%)	-5095 (-32.5%)	-2810 (-17.93%)	-5685 (-32.5%)	-5685 (-17.93%)

Page	Page	2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
		GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU								
264	<i>Glaucopsyche melanops</i> (BOISDUVAL, 1828)	-1333 (-37.27%)	-1708 (-47.75%)	-720 (-20.13%)	-2464 (-68.88%)	-2238 (-62.57%)	-2069 (-57.84%)	-2032 (-56.81%)	-2319 (-64.83%)	-1767 (-49.4%)	-3524 (-98.52%)	-3287 (-91.89%)	-3287 (-91.89%)	-2884 (-80.63%)	
266	<i>Iolana iolus</i> (OCHSENHEIMER, 1816)	-974 (-29.45%)	-1610 (-48.68%)	-102 (-3.08%)	-1849 (-55.91%)	-1909 (-57.73%)	-1371 (-41.46%)	-2596 (-78.5%)	-2625 (-79.38%)	-1564 (-47.29%)	-3186 (-96.34%)	-2938 (-88.84%)	-2938 (-88.84%)	-2149 (-64.98%)	
268	<i>Phengaris arion</i> (LINNAEUS, 1758)	-2206 (-16.66%)	-330 (-2.49%)	-992 (-7.49%)	-4172 (-31.51%)	-2858 (-21.58%)	-3076 (-23.23%)	-3006 (-22.7%)	-1732 (-13.08%)	-1865 (-14.08%)	-8692 (-65.64%)	-6599 (-49.83%)	-6599 (-49.83%)	-5421 (-40.94%)	
270	<i>Phengaris telemis</i> (BERGSTRÄSSER, 1779)	-1537 (-23.71%)	-551 (-8.5%)	-35 (-0.54%)	-3224 (-49.73%)	-2612 (-40.29%)	-2184 (-33.69%)	-2476 (-38.19%)	-1587 (-24.48%)	-1008 (-15.55%)	-5731 (-88.4%)	-4723 (-72.85%)	-4723 (-72.85%)	-3984 (-61.45%)	
272	<i>Phengaris nausithous</i> (BERGSTRÄSSER, 1779)	-1451 (-40.09%)	-699 (-19.31%)	-830 (-22.93%)	-2501 (-69.11%)	-1960 (-54.16%)	-1999 (-55.24%)	-2334 (-64.49%)	-1716 (-47.42%)	-789 (-21.8%)	-3460 (-95.61%)	-3061 (-84.58%)	-3061 (-84.58%)	-2643 (-73.03%)	
274	<i>Phengaris alcon</i> ([SCHIFFER-MÜLLER, 1775])	-1388 (-20.89%)	375 (5.65%)	-800 (-12.04%)	-2689 (-40.48%)	-1448 (-21.8%)	-2001 (-30.12%)	-2097 (-31.57%)	-1062 (-15.99%)	-741 (-11.15%)	-4883 (-73.51%)	-3525 (-53.05%)	-3525 (-53.05%)	-2794 (-42.06%)	
276	<i>Plebejus argus</i> (LINNAEUS, 1758)	-2138 (-11.19%)	-1803 (-9.44%)	-889 (-4.65%)	-4148 (-21.71%)	-3361 (-17.59%)	-3151 (-16.49%)	-4123 (-21.58%)	-3038 (-15.9%)	-865 (-4.53%)	-9598 (-50.23%)	-7385 (-38.65%)	-7385 (-38.65%)	-5024 (-26.29%)	
278	<i>Plebejus idas</i> (LINNAEUS, 1761)	-5296 (-28.72%)	-4401 (-23.87%)	-5309 (-21.5%)	-4419 (-28.79%)	-3996 (-23.97%)	-4419 (-21.67%)	-9992 (-54.19%)	-7986 (-43.31%)	-6083 (-32.99%)	-10023 (-54.36%)	-8006 (-43.42%)	-8006 (-43.42%)	-6192 (-33.58%)	
280	<i>Plebejus argyronomus</i> (BERGSTRÄSSER, 1779)	267 (4.78%)	1176 (21.05%)	995 (17.81%)	-2681 (-47.98%)	-2065 (-36.95%)	-1883 (-33.7%)	-655 (-11.72%)	297 (5.31%)	760 (13.6%)	-4776 (-85.47%)	-4064 (-72.73%)	-4064 (-72.73%)	-3178 (-56.87%)	
282	<i>Plebejus opilere</i> (KNOCH, 1781)	-3065 (-30.37%)	-2803 (-27.77%)	-2975 (-29.48%)	-3153 (-31.24%)	-2907 (-28.8%)	-3104 (-30.76%)	-6135 (-60.79%)	-4949 (-49.04%)	-4367 (-43.27%)	-6209 (-61.52%)	-5057 (-50.11%)	-5057 (-50.11%)	-4580 (-45.38%)	
284	<i>Plebejus glandon</i> (DE PRUNNER, 1798)	-2 (-0.47%)	94 (22.12%)	14 (3.29%)	-237 (-55.76%)	-189 (-44.47%)	-229 (-53.88%)	-235 (-55.29%)	-93 (-21.88%)	-221 (-52%)	-363 (-85.41%)	-283 (-66.59%)	-283 (-66.59%)	-348 (-81.88%)	

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	
		BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	
286	<i>Plebejus aquilo</i> (Boisduval, 1832)	-497 (-68.92%)	-462 (-66.47%)	-553 (-79.57%)	-537 (-77.27%)	-529 (-76.12%)	-682 (-98.13%)	-646 (-92.95%)	-562 (-80.86%)	-695 (-100%)	-685 (-98.56%)	
288	<i>Plebejus orbitulus</i> (DE RUNNER, 1798)	-299 (-24.07%)	-226 (-18.2%)	-234 (-18.84%)	-397 (-31.96%)	-333 (-26.81%)	-356 (-28.66%)	-493 (-39.69%)	-365 (-29.39%)	-552 (-28.34%)	-615 (-49.52%)	
290	<i>Plebejus sephirus</i> (Frivaldszky, 1835)	3 (0.25%)	-143 (-12.03%)	743 (62.49%)	-833 (70.06%)	-760 (63.92%)	-676 (56.85%)	-100 (8.41%)	-441 (-37.09%)	330 (27.75%)	-1115 (93.78%)	
292	<i>Aricia eumedon</i> (ESPER, 1780)	-5616 (-41.94%)	-4609 (-34.42%)	-3820 (-28.53%)	-6091 (-45.49%)	-5017 (-37.47%)	-4459 (-53.41%)	-7151 (-53.41%)	-6493 (-48.5%)	-3967 (-29.63%)	-7854 (-58.66%)	
294	<i>Aricia cramera</i> (Eschscholtz, 1821)	-1591 (-64.39%)	-1563 (-63.25%)	-1273 (-51.52%)	-1843 (-74.59%)	-1648 (-66.69%)	-1505 (-60.91%)	-1950 (-78.92%)	-2054 (-83.12%)	-1692 (-68.47%)	-2448 (-99.07%)	
296	<i>Aricia agestis</i> ([SCHIFFER- MÜLLER], 1775)	-837 (-5.49%)	-354 (-2.32%)	299 (1.96%)	-3631 (-23.81%)	-3124 (-20.48%)	-2499 (-16.38%)	-4787 (-31.38%)	-3463 (-22.7%)	-2279 (-14.94%)	-8715 (-57.14%)	
298	<i>Aricia artaxerxes</i> (FABRICIUS, 1793)	-4476 (-46.3%)	-4891 (-50.59%)	-3340 (-47.55%)	-4601 (-51.59%)	-4985 (-51.56%)	-3708 (-38.35%)	-7886 (-81.57%)	-7110 (-73.54%)	-4943 (-51.13%)	-8037 (-83.13%)	
300	<i>Aricia montensis</i> (VERITY, 1928)	-593 (-69.03%)	-606 (-70.55%)	-458 (-53.32%)	-755 (-87.89%)	-683 (-79.51%)	-618 (-71.94%)	-464 (-54.02%)	-605 (-70.43%)	-591 (-68.8%)	-8037 (-97.79%)	
302	<i>Aricia anteros</i> (FREYER, 1838)	-70 (-13.92%)	-64 (-12.72%)	63 (12.52%)	-335 (-66.6%)	-300 (-59.64%)	-252 (-50.1%)	-355 (-70.58%)	-300 (-59.64%)	-300 (22.47%)	-840 (-11.3%)	
304	<i>Aricia nicias</i> (MERGEN, 1829)	-1255 (-29.18%)	-1380 (-32.09%)	-434 (-10.09%)	-1467 (-34.11%)	-1528 (-35.53%)	-814 (-18.93%)	-1952 (-45.38%)	-1611 (-37.46%)	-1611 (-48.81%)	-840 (-97.79%)	
306	<i>Cyaniris semiargus</i> (ROTTEMBURG, 1775)	-1510 (-8.7%)	-349 (-2.01%)	-131 (-0.75%)	-3763 (-21.68%)	-2498 (-14.39%)	-2574 (-14.83%)	-4868 (-28.04%)	-2792 (-16.08%)	-792 (-4.56%)	-8323 (-47.95%)	
308	<i>Polyommatus escheri</i> (HÜBNER, 1823)	-1243 (-53.81%)	-1061 (-45.93%)	-889 (-38.48%)	-1873 (-81.08%)	-1633 (-70.69%)	-1562 (-67.62%)	-1178 (-51%)	-1188 (-51.43%)	-788 (-34.11%)	-2268 (-98.18%)	
310	<i>Polyommatus</i> <i>dorylas</i> ([SCHIFFER- MÜLLER], 1775)	-1804 (-39.91%)	-1526 (-33.76%)	-949 (-21%)	-2684 (-59.38%)	-2328 (-51.5%)	-2030 (-44.91%)	-1903 (-42.1%)	-1383 (-30.6%)	-372 (-8.23%)	-3262 (-82.41%)	-3725 (-72.17%)

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	full dispersal	full dispersal	full dispersal	full dispersal	no dispersal	no dispersal	no dispersal	no dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	SEDG
312	<i>Polyommatus nivescens</i> (KEPPESTEIN, 1851)	-446 (-95.5%)	-434 (-92.93%)	-378 (-80.94%)	-448 (-95.93%)	-434 (-92.93%)	-392 (-83.94%)	-467 (-100%)	-467 (-99.79%)	-466 (-100%)	-467 (-99.79%)	-466 (-100%)	-467 (-99.79%)	-466 (-99.79%)	-466 (-99.79%)
314	<i>Polyommatus amandus</i> (SCHNEIDER 1792)	-4505 (-44.66%)	-5353 (-53.07%)	-2889 (-28.64%)	-5013 (-49.7%)	-5575 (-55.27%)	-3583 (-35.529%)	-8935 (-88.58%)	-8257 (-81.86%)	-6907 (-68.47%)	-9088 (-90.1%)	-8426 (-83.53%)	-8426 (-83.53%)	-7321 (-72.58%)	-7321 (-72.58%)
316	<i>Polyommatus thersites</i> (CANTENER, 1834)	-140 (-2.01%)	-278 (-3.99%)	787 (11.31%)	-2824 (-40.58%)	-2569 (-36.92%)	-2140 (-30.75%)	-1437 (-20.05%)	-746 (-10.72%)	279 (4.01%)	-5673 (-81.52%)	-4622 (-66.42%)	-4622 (-66.42%)	-3388 (-48.69%)	-3388 (-48.69%)
318	<i>Polyommatus icarus</i> (ROTTEMBURG, 1775)	-3054 (-12.06%)	-2902 (-11.46%)	-1508 (-5.96%)	-4374 (-17.27%)	-3836 (-15.15%)	-3252 (-12.84%)	-7231 (-28.36%)	-5208 (-20.57%)	-2279 (-9%)	-10608 (-41.9%)	-7950 (-31.4%)	-7950 (-31.4%)	-5242 (-20.7%)	-5242 (-20.7%)
320	<i>Polyommatus eros</i> (OCHSENHEIMER, 1808)	-1162 (-43.83%)	-968 (-36.51%)	-880 (-33.2%)	-1322 (-49.87%)	-1130 (-42.63%)	-1087 (-41%)	-1399 (-52.77%)	-1167 (-44.02%)	-1071 (-40.4%)	-1855 (-69.97%)	-1570 (-59.22%)	-1570 (-59.22%)	-1530 (-57.71%)	-1530 (-57.71%)
322	<i>Polyommatus daphnis</i> ([SCHIFFER-MÜLLER], 1775)	-2615 (-30.83%)	-3054 (-36%)	-599 (-7.06%)	-3487 (-41.11%)	-3575 (-42.14%)	-2243 (-26.44%)	-3937 (-46.41%)	-4525 (-53.34%)	-2162 (-25.49%)	-7016 (-82.71%)	-6338 (-74.71%)	-6338 (-74.71%)	-4723 (-55.68%)	-4723 (-55.68%)
324	<i>Polyommatus bellargus</i> (ROTTEMBURG, 1775)	285 (2.33%)	1018 (8.31%)	1560 (12.74%)	-3061 (-25%)	-2600 (-21.23%)	-2047 (-16.72%)	-1117 (-9.12%)	-405 (-3.31%)	411 (3.36%)	-6854 (-55.97%)	-5496 (-44.88%)	-5496 (-44.88%)	-3601 (-29.41%)	-3601 (-29.41%)
326	<i>Polyommatus coridon</i> (PODA, 1761)	-917 (-10.41%)	384 (4.36%)	304 (3.45%)	-3587 (-40.73%)	-2645 (-30.04%)	-2524 (-28.66%)	-1527 (-17.34%)	-838 (-9.52%)	-501 (-5.69%)	-6483 (-73.62%)	-5197 (-59.02%)	-5197 (-59.02%)	-4088 (-46.42%)	-4088 (-46.42%)
328	<i>Polyommatus hispanus</i> (HERLICH-SCHÄFFER, 1851)	145 (18.31%)	68 (8.59%)	170 (21.46%)	-608 (-76.77%)	-559 (-70.58%)	-557 (-70.33%)	151 (19.07%)	214 (27.02%)	500 (63.13%)	-787 (-99.37%)	-739 (-93.31%)	-739 (-93.31%)	-656 (-82.83%)	-656 (-82.83%)

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	
		BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	BAMBU	SEDG	
330	<i>Polyommatus albicaudus</i> (HERRICH-SCHAFFER, 1851)	-498 (-52.42%)	-691 (-72.74%)	-457 (-48.11%)	-707 (-74.42%)	-598 (-62.95%)	-922 (-97.05%)	-946 (-99.58%)	-924 (-97.26%)	-950 (-100%)	-950 (-100%)	
332	<i>Polyommatus adamantis</i> (ESPER, 1785)	-39 (-2.54%)	-452 (-29.41%)	568 (36.96%)	-1076 (-70.01%)	-1020 (-66.36%)	-842 (-54.78%)	-915 (-59.53%)	-1004 (-65.32%)	-150 (-97.6%)	-1464 (-95.25%)	-1357 (-88.29%)
334	<i>Polyommatus ripartii</i> (FREYER, 1830)	-349 (-75.87%)	-342 (-74.35%)	-290 (-63.04%)	-384 (-83.48%)	-372 (-80.87%)	-336 (-73.04%)	-447 (-97.17%)	-406 (-88.26%)	-359 (-78.04%)	-456 (-99.13%)	-433 (-94.13%)
336	<i>Polyommatus dolus</i> (HÜBNER, 1823)	-34 (-15.89%)	-90 (-42.06%)	-58 (-27.1%)	-202 (-94.39%)	-192 (-89.72%)	-190 (-88.79%)	-79 (-36.92%)	-97 (-45.33%)	105 (-49.07%)	-214 (-100%)	-214 (-100%)
338	<i>Polyommatus damon</i> (SCHIFFER-MÜLLER, 1775)	-1112 (-36.36%)	-850 (-47.56%)	-660 (-28.23%)	-1526 (-65.27%)	-1277 (-54.62%)	-1169 (-50%)	-1409 (-60.27%)	-1091 (-46.66%)	-857 (-36.66%)	-209 (-56.93%)	-209 (-75.66%)
340	<i>Hameritis lucina</i> (LINNAEUS, 1758)	-686 (-11.05%)	529 (8.52%)	55 (0.89%)	-2928 (-47.17%)	-2161 (-34.82%)	-2192 (-35.31%)	-1480 (-23.84%)	-452 (-27.28%)	-249 (-4.01%)	-5148 (-82.94%)	-5148 (-82.94%)
342	<i>Libythea celtis</i> (LAUCHARTING, 1782)	-1165 (-31.62%)	-1280 (-34.74%)	-582 (-15.8%)	-2165 (-58.77%)	-1946 (-52.82%)	-1642 (-44.57%)	-1312 (-35.61%)	-1635 (-44.38%)	-813 (-22.07%)	-3409 (-92.54%)	-3068 (-83.28%)
344	<i>Argynnis paphia</i> (LINNAEUS, 1758)	-2577 (-14.19%)	-2110 (-11.55%)	-1366 (-7.47%)	-4369 (-23.91%)	-3766 (-20.61%)	-3351 (-18.34%)	-6457 (-33.33%)	-4872 (-26.66%)	-2912 (-15.93%)	-11083 (-60.64%)	-8253 (-45.16%)
346	<i>Argynnis pandora</i> (SCHIFFER-MÜLLER, 1775)	-587 (-10.8%)	-1933 (-35.58%)	1193 (21.96%)	-2566 (-47.23%)	-2556 (-47.05%)	-1626 (-29.93%)	-2148 (-39.34%)	-3121 (-57.45%)	-1599 (-29.43%)	-4744 (-87.32%)	-4172 (-76.79%)
348	<i>Argynnis aglaja</i> (LINNAEUS, 1758)	-2885 (-14.04%)	-2865 (-13.94%)	-1213 (-5.9%)	-4947 (-24.07%)	-4599 (-22.38%)	-3328 (-16.19%)	-9906 (-48.2%)	-7493 (-36.46%)	-4162 (-20.25%)	-13024 (-63.37%)	-10512 (-51.15%)
350	<i>Argynnis adippe</i> (SCHIFFER-MÜLLER, 1775)	-3720 (-26.29%)	-2493 (-17.56%)	-1589 (-11.19%)	-4865 (-34.26%)	-3556 (-25.04%)	-2919 (-20.56%)	-8102 (-57.06%)	-5935 (-41.8%)	-3763 (-26.5%)	-10604 (-74.68%)	-8143 (-57.35%)

Page	2050										2080									
	full dispersal		full dispersal		no dispersal		no dispersal		full dispersal		full dispersal		full dispersal		full dispersal		full dispersal		full dispersal	
GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG
352 <i>Argynnis niobe</i> (LINNAEUS, 1758)	-2562 (-15,49%)	-2109 (-12,75%)	-1295 (-7,83%)	-3948 (-23,87%)	-3441 (-20,81%)	-2967 (-17,94%)	-7117 (-43,03%)	-5110 (-30,9%)	-3322 (-20,09%)	-10289 (-62,21%)	-7946 (-48,04%)	-5123 (-36,55%)	-100%	-528 (-6045)	-100%	-528 (-36,55%)	-100%	-528 (-6045)	-100%	-528 (-36,55%)
354 <i>Argynnis laodice</i> (PALLAS, 1771)	-443 (-8,93%)	201 (4,05%)	-679 (-13,69%)	-2242 (-45,19%)	-1794 (-36,16%)	-2209 (-44,53%)	-167 (-3,37%)	960 (19,35%)	-358 (-7,22%)	-3849 (-77,59%)	-3083 (-62,14%)	-358 (-62,14%)	-100%	-358 (-58,92%)	-100%	-358 (-58,92%)	-100%	-358 (-58,92%)	-100%	-358 (-58,92%)
356 <i>Isoria lathonia</i> (LINNAEUS, 1758)	-2031 (-14,45%)	-2545 (-18,1%)	-770 (-5,48%)	-3944 (-28,05%)	-4038 (-29,08%)	-2836 (-20,17%)	-7632 (-54,28%)	-6471 (-46,02%)	-4326 (-30,77%)	-10003 (-71,15%)	-8591 (-61,1%)	-4326 (-71,15%)	-10003 (-45,97%)	-8591 (-6463)	-4326 (-45,97%)	-10003 (-45,97%)	-8591 (-6463)	-4326 (-45,97%)	-10003 (-45,97%)	-8591 (-6463)
358 <i>Brethis ino</i> (ROTENBURG, 1775)	-2704 (-19,61%)	-2329 (-16,89%)	-2157 (-15,64%)	-5157 (-37,4%)	-4748 (-34,44%)	-4631 (-33,59%)	-6908 (-50,1%)	-4906 (-35,58%)	-4126 (-29,92%)	-10472 (-75,95%)	-8460 (-61,36%)	-4126 (-75,95%)	-10472 (-52,34%)	-8460 (-52,34%)	-4126 (-52,34%)	-10472 (-52,34%)	-8460 (-52,34%)	-4126 (-52,34%)	-10472 (-52,34%)	
360 <i>Brethis daphne</i> (BERGERSTRÄSSER, 1780)	763 (13,85%)	1916 (34,78%)	1518 (27,55%)	-1779 (-32,29%)	-1365 (-24,78%)	-1190 (-21,6%)	-1929 (35,02%)	-2007 (36,43%)	-2653 (48,16%)	-3676 (-66,73%)	-2868 (-52,06%)	-2653 (-66,73%)	-3676 (-52,06%)	-2868 (-34,98%)	-2653 (-34,98%)	-3676 (-34,98%)	-2868 (-34,98%)	-2653 (-34,98%)	-3676 (-34,98%)	
362 <i>Brethis hecate</i> ([SCHIFFER- MÜLLER], 1775)	-270 (-7,08%)	-589 (-15,44%)	554 (14,53%)	-2292 (-60,09%)	-2135 (-55,98%)	-1741 (-45,65%)	-2135 (-13,32%)	-508 (-14,53%)	-554 (-5,69%)	-217 (-5,69%)	-3442 (-90,25%)	-217 (-5,69%)	-3442 (-85,03%)	-217 (-85,03%)	-3442 (-85,03%)	-217 (-85,03%)	-3442 (-85,03%)	-217 (-85,03%)	-3442 (-85,03%)	
364 <i>Boloria eunomia</i> (ESPER, 1799)	-1564 (-19,66%)	-1220 (-15,34%)	-1589 (-19,98%)	-1760 (-22,13%)	-1399 (-17,59%)	-1783 (-22,42%)	-3171 (-39,87%)	-2410 (-30,3%)	-1843 (-23,17%)	-3443 (-43,29%)	-2747 (-34,54%)	-1843 (-22,91%)	-3443 (-22,91%)	-2747 (-28,8%)	-1843 (-22,91%)	-3443 (-22,91%)	-2747 (-28,8%)	-1843 (-22,91%)		
366 <i>Boloria euphydryas</i> (LINNAEUS, 1758)	-5707 (-26,51%)	-3553 (-16,59%)	-4042 (-18,77%)	-5782 (-26,86%)	-3587 (-16,66%)	-4132 (-19,19%)	-8912 (-41,4%)	-7044 (-32,72%)	-4372 (-20,31%)	-9059 (-42,08%)	-7118 (-33,06%)	-4372 (-21,59%)	-9059 (-21,59%)	-7118 (-4649)	-4372 (-21,59%)	-9059 (-4649)	-7118 (-21,59%)	-4372 (-21,59%)	-9059 (-4649)	
368 <i>Boloria titania</i> (ESPER, 1793)	-580 (-30,37%)	-151 (-7,91%)	-377 (-19,74%)	-874 (-45,76%)	-525 (-27,49%)	-766 (-40,1%)	-492 (25,76%)	-570 (29,84%)	-1116 (6,07%)	-1181 (-61,83%)	-926 (-48,48%)	-1116 (-45,18%)	-1181 (-45,18%)	-926 (-863)	-1116 (-45,18%)	-1181 (-45,18%)	-926 (-863)	-1116 (-45,18%)		
370 <i>Boloria selene</i> ([SCHIFFER- MÜLLER], 1775)	-6093 (-29,77%)	-5114 (-24,99%)	-4708 (-22%)	-6442 (-31,47%)	-5424 (-26,5%)	-5037 (-24,61%)	-10443 (-51,02%)	-8549 (-41,77%)	-6291 (-30,74%)	-10927 (-53,39%)	-8996 (-43,95%)	-6291 (-43,95%)	-10927 (-33,08%)	-8996 (-33,08%)	-6291 (-33,08%)	-10927 (-33,08%)	-8996 (-33,08%)	-6291 (-33,08%)		
372 <i>Boloria chariclea</i> (SCHNEIDER, 1794)	-518 (-98,11%)	-518 (-98,11%)	-519 (-98,2%)	-524 (-98,67%)	-521 (-99,05%)	-523 (-100%)	-528 (-99,62%)	-512 (-96,97%)	-512 (-100%)	-512 (-96,97%)	-528 (-100%)	-512 (-100%)	-528 (-100%)	-512 (-100%)	-512 (-100%)	-512 (-100%)	-512 (-100%)	-512 (-100%)		
374 <i>Boloria freija</i> (BECKLIN, 1791)	-1581 (-28,71%)	-1434 (-26,04%)	-1904 (-34,57%)	-1593 (-28,93%)	-1446 (-26,26%)	-1930 (-35,05%)	-4189 (-76,07%)	-3324 (-60,36%)	-3654 (-66,35%)	-4197 (-76,21%)	-3340 (-60,65%)	-3654 (-66,64%)	-4197 (-66,64%)	-3340 (-66,64%)	-3654 (-66,64%)	-4197 (-66,64%)	-3340 (-66,64%)	-3654 (-66,64%)		
376 <i>Boloria dia</i> (LINNAEUS, 1767)	-2 (-0,02%)	1436 (17,22%)	1212 (14,54%)	-3190 (-38,26%)	-2450 (-29,38%)	-2342 (-28,09%)	605 (7,26%)	892 (10,7%)	1325 (15,89%)	-6394 (-76,69%)	-5229 (-62,71%)	-6394 (-62,71%)	-5229 (-48,33%)	-6394 (-48,33%)	-5229 (-48,33%)	-6394 (-48,33%)	-5229 (-48,33%)	-6394 (-48,33%)		

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	full dispersal	no dispersal	no dispersal	dispersal	dispersal	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU
378	<i>Boloria thore</i> (HÜBNER, 1806)	-365 (-22.48%)	-237 (-14.59%)	-200 (-12.32%)	-471 (-29%)	-370 (-22.78%)	-396 (-24.38%)	388 (-23.89%)	229 (14.1%)	579 (35.65%)	-549 (-33.81%)	-437 (-26.91%)	-437 (-24.94%)	-405 (-26.91%)	-405 (-24.94%)
380	<i>Boloria frigga</i> (BECKLIN, 1791)	-1842 (-30.98%)	-1331 (-22.39%)	-1825 (-30.7%)	-1949 (-24.51%)	-1457 (-32.28%)	-1919 (-53.64%)	-3189 (-42.89%)	-2550 (-55.79%)	-3317 (-55.9%)	-3323 (-55.9%)	-2690 (-45.25%)	-2690 (-57.29%)	-3406 (-57.29%)	-3406 (-57.29%)
382	<i>Boloria pales</i> ([SCHIFFERER- MÜLLER], 1775)	-520 (-18.3%)	-286 (-18.87%)	-359 (-23.68%)	-631 (-41.62%)	-463 (-30.54%)	-493 (-32.52%)	-631 (-41.62%)	-417 (-27.51%)	-533 (-35.16%)	-1002 (-66.09%)	-782 (-51.58%)	-782 (-51.58%)	-808 (-53.3%)	-808 (-53.3%)
384	<i>Boloria aquilonaris</i> (STRICHEL, 1908)	-2362 (-28.89%)	-1964 (-24.02%)	-2371 (-29%)	-2625 (-32.1%)	-2230 (-27.27%)	-2668 (-32.63%)	-4789 (-58.57%)	-3717 (-45.46%)	-3359 (-41.08%)	-5019 (-61.38%)	-4025 (-49.22%)	-4025 (-46.08%)	-3768 (-46.08%)	-3768 (-46.08%)
386	<i>Boloria grisea</i> (STAUDINGER, 1870)	-271 (-56.34%)	-281 (-58.42%)	-239 (-49.69%)	-378 (-78.59%)	-370 (-76.92%)	-353 (-73.39%)	-259 (-53.85%)	-330 (-68.61%)	-197 (-40.96%)	-433 (-40.96%)	-418 (-50.02%)	-418 (-50.02%)	-370 (-69.92%)	-370 (-69.92%)
388	<i>Vanessa atalanta</i> (LINNAEUS, 1758)	-4073 (-18.04%)	-4288 (-19%)	-4283 (-22.43%)	-5063 (-21.52%)	-4857 (-17.16%)	-3874 (-52.6%)	-11874 (-52.6%)	-8963 (-39.7%)	-5008 (-22.18%)	-13684 (-60.62%)	-10381 (-45.99%)	-10381 (-45.99%)	-6755 (-29.92%)	-6755 (-29.92%)
390	<i>Vanessa cardui</i> (LINNAEUS, 1758)	-3350 (-16.64%)	-3350 (-20.98%)	-4224 (-8.9%)	-1792 (-25.73%)	-5180 (-25.19%)	-5073 (-19.28%)	-3883 (-46.05%)	-9272 (-35.03%)	-7054 (-13.9%)	-2799 (-13.9%)	-11805 (-58.63%)	-9170 (-45.54%)	-5567 (-27.65%)	-5567 (-27.65%)
392	<i>Aglais io</i> (LINNAEUS, 1758)	-2035 (-9.94%)	-1744 (-8.51%)	-1220 (-5.96%)	-4094 (-19.99%)	-3602 (-17.59%)	-3269 (-15.96%)	-5130 (-25.05%)	-3006 (-14.68%)	-1718 (-8.39%)	-10412 (-50.83%)	-7383 (-36.04%)	-7383 (-36.04%)	-5136 (-25.07%)	-5136 (-25.07%)
394	<i>Aglais urticae</i> (LINNAEUS, 1758)	-3835 (-17.58%)	-3394 (-15.56%)	-3222 (-11.56%)	-4718 (-21.62%)	-4153 (-19.03%)	-3317 (-15.29%)	-3073 (-15.29%)	-10097 (-16.28%)	-7863 (-36.04%)	-4391 (-20.13%)	-12111 (-55.51%)	-9692 (-44.42%)	-5898 (-27.03%)	-5898 (-27.03%)
396	<i>Nymphalis c-album</i> (LINNAEUS, 1758)	-1943 (-9.08%)	-1830 (-8.55%)	-811 (-3.79%)	-3916 (-18.3%)	-3404 (-15.91%)	-2936 (-13.72%)	-5154 (-24.09%)	-3567 (-16.67%)	-1279 (-5.98%)	-9934 (-66.42%)	-7489 (-35%)	-7489 (-35%)	-5032 (-23.52%)	-5032 (-23.52%)
398	<i>Nymphalis eaea</i> (CRAMER, 1775)	348 (19.55%)	348 (17.36%)	309 (15.9%)	283 (-23.26%)	-414 (-18.54%)	-330 (-20.67%)	-368 (-77.53%)	1380 (39.83%)	709 (52.64%)	-1161 (-65.22%)	-784 (-44.04%)	-784 (-44.04%)	-471 (-26.46%)	-471 (-26.46%)
400	<i>Nymphalis antiopa</i> (LINNAEUS, 1758)	-2083 (-12.94%)	-1047 (-6.5%)	-886 (-24.71%)	-3979 (-17.64%)	-2840 (-17.43%)	-2806 (-32.61%)	-5251 (-22.57%)	-3635 (-5%)	-805 (-49.79%)	-8017 (-49.79%)	-6079 (-37.75%)	-6079 (-37.75%)	-3615 (-22.45%)	-3615 (-22.45%)
402	<i>Nymphalis polychloros</i> (LINNAEUS, 1758)	-2864 (-18.06%)	-2991 (-18.86%)	-1494 (-9.42%)	-4403 (-27.76%)	-4236 (-26.7%)	-3210 (-20.24%)	-8220 (-51.83%)	-6995 (-44.1%)	-4926 (-31.06%)	-10595 (-66.89%)	-8952 (-56.44%)	-8952 (-56.44%)	-6669 (-42.05%)	-6669 (-42.05%)
404	<i>Nymphalis xanthomelas</i> (ESPER, 1781)	-272 (-6.62%)	-155 (-7.1%)	-292 (-53.1%)	-2183 (-48.19%)	-1981 (-43.52%)	-1789 (-55.87%)	-2297 (-42.28%)	-1738 (-53.76%)	-2210 (-9.805%)	-4031 (-89.59%)	-3683 (-89.59%)	-3683 (-89.59%)	-3846 (-93.55%)	-3846 (-93.55%)

Page	Page	2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
406	<i>Nymphalis l-album</i> (ESPER, 1780)	90	1514 (28.91%)	101 (1.93%)	-1836 (-35.06%)	-850 (-16.23%)	-1761 (-33.63%)	3035 (57.95%)	3350 (63.97%)	3311 (63.22%)	-2884 (-55.07%)	-2324 (-44.38%)	-1611 (-44.38%)	-2324 (-44.38%)	-1611 (-30.76%)
408	<i>Anasemia levana</i> (LINNAEUS, 1758)	-1214 (-9.54%)	-231 (-1.82%)	-750 (-5.89%)	-3737 (-29.37%)	-2980 (-23.42%)	-3045 (-23.93%)	-2943 (-23.13%)	-1661 (-13.05%)	-2108 (-16.57%)	-9390 (-73.79%)	-7261 (-57.06%)	-5787 (-45.48%)	-5787 (-45.48%)	
410	<i>Euphydryas iduna</i> (DALMAN, 1816)	-1086 (-8.227%)	-1047 (-79.32%)	-1095 (-82.95%)	-1057 (-80.08%)	-1062 (-80.45%)	-1315 (-99.62%)	-1276 (-96.67%)	-1211 (-91.74%)	-1315 (-99.62%)	-1280 (-96.97%)	-1223 (-92.65%)	-1223 (-92.65%)	-1223 (-92.65%)	
412	<i>Euphydryas cynthia</i> [[SCHIFFER- MÜLLER], 1775]	-132 (-33.42%)	-80 (-20.25%)	-77 (-19.49%)	-180 (-45.57%)	-149 (-37.72%)	-147 (-37.22%)	-210 (-53.16%)	-165 (-41.77%)	-233 (-58.99%)	-327 (-82.78%)	-249 (-63.04%)	-285 (-72.15%)	-285 (-72.15%)	
414	<i>Euphydryas intermedia</i> (MENETRIES, 1859)	-69 (-25.65%)	-11 (-4.09%)	-24 (-8.92%)	-155 (-57.62%)	-123 (-45.72%)	-127 (-47.21%)	-105 (-39.03%)	-45 (-16.73%)	-157 (-58.36%)	-233 (-86.62%)	-193 (-71.75%)	-231 (-85.87%)	-231 (-85.87%)	
416	<i>Euphydryas materna</i> (LINNAEUS, 1758)	2526 (35.26%)	3998 (55.81%)	296 (4.13%)	-1754 (-24.48%)	-981 (-13.69%)	-2439 (-34.05%)	2476 (34.56%)	3987 (55.65%)	3354 (46.82%)	-3429 (-47.86%)	-2446 (-34.14%)	-1971 (-27.51%)	-1971 (-27.51%)	
418	<i>Euphydryas desfontainii</i> (GODART, 1819)	-1202 (-73.25%)	-1226 (-74.71%)	-1003 (-61.12%)	-1314 (-80.07%)	-1256 (-76.54%)	-1132 (-68.98%)	-1624 (-98.96%)	-1593 (-97.07%)	-1406 (-85.68%)	-1640 (-99.94%)	-1622 (-98.84%)	-1481 (-90.25%)	-1481 (-90.25%)	
420	<i>Euphydryas aurinia</i> (ROTTENBURG, 1775)	-543 (-8.34%)	335 (5.14%)	-276 (-4.24%)	-1292 (-19.84%)	-786 (-12.07%)	-976 (-14.99%)	-2488 (-38.2%)	-1115 (-17.12%)	-1055 (-16.2%)	-3659 (-56.18%)	-3429 (-54.18%)	-2365 (-36.31%)	-1908 (-29.39%)	
422	<i>Melitaea cinxia</i> (LINNAEUS, 1758)	-2647 (-20.06%)	-2602 (-19.72%)	-1505 (-11.41%)	-3961 (-30.02%)	-2787 (-27.98%)	-6896 (-21.12%)	-5706 (-32.26%)	-4653 (-43.24%)	-8941 (-35.26%)	-7293 (-67.76%)	-5935 (-55.27%)	-5935 (-44.98%)		
424	<i>Melitaea phoebe</i> (GOEZE, 1779)	1267 (16.47%)	1413 (18.37%)	2383 (30.98%)	-2473 (-32.15%)	-2181 (-28.35%)	-1579 (-20.53%)	1843 (23.96%)	1417 (18.42%)	2605 (33.86%)	-5324 (-69.21%)	-4209 (-54.71%)	-2630 (-34.19%)	-2630 (-34.19%)	
426	<i>Melitaea aethra</i> (HÜBNER, 1826)	214 (54.59%)	261 (66.58%)	51 (13.01%)	-248 (-63.27%)	-184 (-46.94%)	-215 (-54.85%)	4348 (1109.18%)	2480 (632.65%)	642 (163.78%)	-386 (-98.47%)	-351 (-89.54%)	-318 (-81.12%)	-318 (-81.12%)	
428	<i>Melitaea trivia</i> [[SCHIFFER- MÜLLER], 1775]	299 (5.76%)	-715 (-13.76%)	1635 (31.47%)	-2154 (-41.46%)	-2237 (-43.06%)	-1421 (-27.35%)	-1070 (-20.6%)	-1820 (-35.03%)	-75 (-1.44%)	-4285 (-82.48%)	-3718 (-71.57%)	-2656 (-51.13%)	-2656 (-51.13%)	

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS
		SEDG	SEDG	SEDG	SEDG	SEDG	SEDG	SEDG	SEDG	SEDG	SEDG
430	<i>Melitaea didyma</i> (ESPER, 1779)	1374 (11.08%)	1759 (14.19%)	2540 (20.48%)	-2686 (-21.66%)	-2270 (-18.31%)	-1554 (-12.53%)	-347 (-2.8%)	-73 (-0.59%)	1522 (12.27%)	-7258 (-58.53%)
432	<i>Melitaea diamina</i> (LANG, 1789)	-1511 (-17.5%)	171 (1.98%)	-1169 (-13.54%)	-2780 (-32.2%)	-1648 (-19.09%)	-2382 (-27.59%)	-337 (-39.12%)	-1780 (-20.62%)	-2257 (-26.14%)	-6073 (-70.35%)
434	<i>Melitaea deione</i> (GEYER, 1832)	-1220 (-50.29%)	-1517 (-62.55%)	-832 (-34.3%)	-1824 (-75.19%)	-1792 (-73.87%)	-1587 (-65.42%)	-1062 (-43.78%)	-1236 (-50.95%)	-1099 (-45.3%)	-2213 (-91.22%)
436	<i>Melitaea varia</i> (MEYER-DÜR, 1851)	-66 (-13.04%)	85 (16.8%)	-19 (-3.75%)	-298 (-58.89%)	-232 (-45.85%)	-281 (-55.53%)	-249 (-49.21%)	-123 (-24.31%)	-232 (-45.85%)	-434 (-85.77%)
438	<i>Melitaea parthenoides</i> KEFERNSTEIN, 1851	-805 (-25.29%)	-467 (-14.67%)	-263 (-8.26%)	-1756 (-55.17%)	-1326 (-41.66%)	-1251 (-39.3%)	-1842 (-57.87%)	-1391 (-43.7%)	-1137 (-35.72%)	-2969 (-93.72%)
440	<i>Melitaea aurelia</i> NICKERL, 1850	801 (18.11%)	2241 (50.67%)	335 (7.57%)	-1641 (-37.1%)	-1117 (-25.25%)	-1527 (-34.52%)	490 (11.08%)	1372 (31.02%)	625 (14.3%)	-3288 (-47.43%)
442	<i>Melitaea britonensis</i> ASSMANN, 1847	793 (18.53%)	31 (0.72%)	1268 (29.63%)	-1987 (-46.43%)	-1324 (-48.95%)	-2095 (-30.93%)	-2251 (-52.59%)	-1961 (-45.82%)	-1646 (-38.46%)	-2457 (-94.28%)
444	<i>Melitaea athalia</i> (ROTTEMBERG, 1775)	-1391 (-8.98%)	-610 (-3.94%)	109 (0.7%)	-3658 (-23.63%)	-2730 (-17.63%)	-2510 (-16.21%)	-2980 (-19.25%)	-1542 (-9.96%)	560 (3.62%)	-3288 (-47.34%)
446	<i>Limenitis populi</i> (LINNAEUS, 1758)	-2695 (-23.78%)	-937 (-8.27%)	-2247 (-19.83%)	-4819 (-42.53%)	-3448 (-30.43%)	-3439 (-38.38%)	-3162 (-27.9%)	-1580 (-13.94%)	-1234 (-10.89%)	-2361 (-73.38%)
448	<i>Limenitis camilla</i> (LINNAEUS, 1764)	-1369 (-15.5%)	890 (10.08%)	-1009 (-11.42%)	-3179 (-35.99%)	-1716 (-19.43%)	-2600 (-29.44%)	-1447 (-16.38%)	-161 (-1.82%)	-7785 (-11.08%)	-5975 (-70.79%)
450	<i>Limenitis reducta</i> STAUDINGER, 1901	161 (2.82%)	735 (12.86%)	347 (6.07%)	-1546 (-27.05%)	-1332 (-23.3%)	-1259 (-22.03%)	254 (4.44%)	897 (15.69%)	-1234 (20.64%)	-3262 (-57.07%)
452	<i>Nepis sappho</i> (PALLAS, 1771)	1157 (44.38%)	2187 (83.89%)	1384 (53.09%)	-1389 (-53.28%)	-1038 (-39.82%)	-1028 (-39.43%)	1649 (63.25%)	1506 (57.77%)	876 (33.6%)	-2435 (-93.4%)
454	<i>Nepis rivularis</i> (SCOPOLI, 1763)	-1082 (-50.68%)	-739 (-34.61%)	-655 (-30.68%)	-1391 (-65.15%)	-1113 (-52.13%)	-1086 (-50.87%)	-121 (-21.45%)	-458 (-5.67%)	74 (-21.45%)	-1763 (-82.58%)

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	SEDG
482	<i>Coenonympha aranaria</i> (LINNAEUS, 1761)	-1501 (-8.15%)	-1104 (-8.15%)	-389 (-2.87%)	-3774 (-27.86%)	-3319 (-24.51%)	-2771 (-20.46%)	-4819 (-35.58%)	-3556 (-26.26%)	-2377 (-17.55%)	-9350 (-69.03%)
484	<i>Coenonympha glycerion</i> (BORKHAUSEN, 1788)	90 (0.7%)	-174 (-1.36%)	735 (5.73%)	-2849 (-22.2%)	-2688 (-20.94%)	-2415 (-18.82%)	-1143 (-8.91%)	609 (4.74%)	2334 (18.18%)	-7723 (-60.17%)
486	<i>Coenonympha gardetta</i> (DE PRUNNER, 1798)	-207 (-22%)	-97 (-10.31%)	-167 (-17.75%)	-354 (-37.62%)	-279 (-29.65%)	-312 (-33.16%)	-466 (-49.52%)	-213 (-22.64%)	-405 (-43.04%)	-662 (-70.35%)
488	<i>Coenonympha dorus</i> (ESPER, 1782)	-856 (-30.78%)	-1152 (-41.42%)	-508 (-18.27%)	-2128 (-76.52%)	-1907 (-68.57%)	-1864 (-67.03%)	-877 (-31.54%)	-1232 (-44.3%)	-927 (-33.33%)	-2689 (-66.69%)
490	<i>Coenonympha hero</i> (LINNAEUS, 1761)	-517 (-14.59%)	941 (26.56%)	-1416 (-39.97%)	-1545 (-43.61%)	-845 (-23.85%)	-1929 (-54.45%)	-2024 (-57.13%)	-882 (-24.89%)	-1761 (-49.7%)	-3301 (-93.17%)
492	<i>Coenonympha laander</i> (ESPER, 1784)	-46 (-5.56%)	-399 (-48.25%)	225 (27.21%)	-571 (-69.04%)	597 (-72.19%)	-425 (-51.39%)	-571 (-69.04%)	-574 (-69.41%)	-168 (-20.31%)	-798 (-96.49%)
494	<i>Coenonympha pamphilus</i> (LINNAEUS, 1758)	-2920 (-13.09%)	-2727 (-12.22%)	-1709 (-7.66%)	-4439 (-19.9%)	-3878 (-17.38%)	-3476 (-15.58%)	-6105 (-27.36%)	-4197 (-18.81%)	-1994 (-8.94%)	-10438 (-46.79%)
496	<i>Pyronia tithonus</i> (LINNAEUS, 1771)	-511 (-7.97%)	-48 (-6.01%)	-385 (-26.38%)	-1691 (-22.41%)	-1437 (-22.63%)	-1451 (-40.9%)	-2622 (-40.9%)	-1165 (-18.17%)	-898 (-14.01%)	-3899 (-60.82%)
498	<i>Pyronia cecilia</i> (VALLANTIN, 1894)	-939 (-39.96%)	-925 (-33.79%)	-794 (-68.64%)	-1613 (-59.83%)	-1406 (-58.81%)	-1382 (-44.13%)	-1037 (-51.32%)	-1206 (-37.91%)	-891 (-9.702%)	-2280 (-86.89%)
500	<i>Pyronia bathseba</i> (FABRICIUS, 1793)	-1151 (-33.26%)	-1440 (-41.61%)	-696 (-20.11%)	-2282 (-65.93%)	-2070 (-59.81%)	-1954 (-56.46%)	-2079 (-60.07%)	-2178 (-62.93%)	-1610 (-46.52%)	-3404 (-98.35%)
502	<i>Aphantopus hyperantus</i> (LINNAEUS, 1758)	-2340 (-14.04%)	-1875 (-11.25%)	-1583 (-9.49%)	-4840 (-29.03%)	-4274 (-25.64%)	-3790 (-22.73%)	-7118 (-42.69%)	-5021 (-30.12%)	-3828 (-22.96%)	-12005 (-72.01%)
504	<i>Maniola jurtina</i> (LINNAEUS, 1758)	-2986 (-13.68%)	-2884 (-13.22%)	-1330 (-6.1%)	-4489 (-20.57%)	-4188 (-19.19%)	-3022 (-13.85%)	-9317 (-42.7%)	-6627 (-30.37%)	-4349 (-19.93%)	-11852 (-54.32%)

Page		2050		2050		2050		2050		2080		2080		2080		
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal	
		BAMBU	GRAS													
506	<i>Hyponephele lycaon</i> (KÜHN, 1774)	-2698 (-39.19%)	-3974 (-57.73%)	-805 (-11.69%)	-3454 (-50.17%)	-4245 (-61.66%)	-2069 (-30.06%)	-5461 (-79.33%)	-5739 (-83.37%)	-6406 (-52.03%)	-3582 (-93.06%)	-6138 (-89.16%)	-4792 (-69.61%)	-6138 (-89.16%)	-4792 (-69.61%)	
508	<i>Hyponephele lapina</i> (COSTA, 1836)	-981 (-34.68%)	-1228 (-43.41%)	-389 (-13.75%)	-1690 (-59.74%)	-1547 (-54.68%)	-1308 (-46.24%)	-2354 (-83.21%)	-2198 (-77.7%)	-1383 (-48.89%)	-2720 (-48.89%)	-2482 (-96.15%)	-2482 (-96.15%)	-1845 (-87.73%)	-1845 (-87.73%)	
510	<i>Erebia ligea</i> (LINNAEUS, 1758)	-4075 (-32.7%)	-2415 (-19.38%)	-2958 (-23.74%)	-4737 (-38.01%)	-3187 (-25.57%)	-3875 (-31.09%)	-5485 (-44.01%)	-4435 (-35.59%)	-2798 (-22.45%)	-6418 (-51.5%)	-5388 (-43.24%)	-5388 (-43.24%)	-3895 (-31.26%)	-3895 (-31.26%)	
512	<i>Erebia euryale</i> (ESPER, 1805)	-791 (-37.81%)	-435 (-20.79%)	-524 (-25.05%)	-1100 (-52.58%)	-769 (-36.76%)	-825 (-39.44%)	-500 (-23.9%)	-275 (-13.15%)	-326 (-15.58%)	-1541 (-73.66%)	-1218 (-73.66%)	-1218 (-73.66%)	-1147 (-58.22%)	-1147 (-58.22%)	
514	<i>Erebia eriphyte</i> (FREYER, 1836)	-99 (-25.71%)	-33 (-8.57%)	-57 (-14.81%)	-172 (-44.68%)	-141 (-36.62%)	-144 (-37.4%)	-121 (-31.43%)	-76 (-19.74%)	-168 (-43.64%)	-304 (-78.96%)	-251 (-65.19%)	-251 (-65.19%)	-250 (-64.94%)	-250 (-64.94%)	
516	<i>Erebia manto</i> ([SCHIFFER-MÜLLER], 1775)	-357 (-26.39%)	-165 (-12.2%)	-258 (-19.07%)	-548 (-40.5%)	-594 (-29.12%)	-394 (-34.44%)	-466 (-29.71%)	-402 (-16.85%)	-228 (-27.2%)	-368 (-27.2%)	-850 (-62.82%)	-661 (-48.85%)	-661 (-48.85%)	-668 (-49.37%)	-668 (-49.37%)
518	<i>Erebia epiphron</i> (KNOCH, 1783)	-980 (-30.22%)	-761 (-23.47%)	-747 (-23.03%)	-1321 (-40.73%)	-1057 (-32.59%)	-1068 (-32.93%)	-679 (-20.94%)	-717 (-22.11%)	-524 (-16.16%)	-1837 (-56.65%)	-1526 (-47.06%)	-1526 (-47.06%)	-1317 (-40.61%)	-1317 (-40.61%)	
520	<i>Erebia pharte</i> (HÜBNER, 1804)	-337 (-24.85%)	-212 (-15.63%)	-284 (-20.94%)	-542 (-39.97%)	-429 (-31.64%)	-487 (-35.91%)	-426 (-31.42%)	-426 (-19.84%)	-428 (-31.56%)	-832 (-61.36%)	-666 (-49.12%)	-666 (-49.12%)	-679 (-50.07%)	-679 (-50.07%)	
522	<i>Erebia melampus</i> (FUSSLI, 1775)	-413 (-29.06%)	-244 (-17.17%)	-333 (-23.43%)	-520 (-36.59%)	-389 (-27.38%)	-444 (-31.25%)	-588 (-41.38%)	-588 (-26.67%)	-379 (-35.12%)	-917 (-64.53%)	-686 (-48.82%)	-686 (-48.82%)	-740 (-52.08%)	-740 (-52.08%)	
524	<i>Erebia aethiops</i> (ESPER, 1777)	-1395 (-30.84%)	-519 (-11.47%)	-968 (-21.4%)	-2226 (-49.22%)	-1542 (-34.09%)	-1883 (-41.63%)	-590 (12.12%)	-548 (6.99%)	-316 (10.86%)	-917 (-63.59%)	-2876 (-51.25%)	-2876 (-51.25%)	-1899 (-41.99%)	-1899 (-41.99%)	
526	<i>Erebia triaria</i> (DE PRUNNER, 1798)	-66 (-5.65%)	-66 (0.6%)	-7 (5.99%)	-968 (-59.02%)	-608 (-52.01%)	-590 (-50.47%)	-285 (-24.38%)	-285 (-20.19%)	-236 (-21.81%)	-943 (-80.67%)	-847 (-72.46%)	-847 (-72.46%)	-877 (-75.02%)	-877 (-75.02%)	
528	<i>Erebia embla</i> (BECKLIN, 1791)	-806 (-21.19%)	-782 (-20.56%)	-835 (-21.95%)	-1207 (-31.73%)	-1145 (-30.1%)	-1141 (-29.99%)	-2238 (-58.83%)	-1605 (-42.19%)	-1583 (-41.61%)	-2592 (-68.14%)	-2010 (-52.84%)	-2010 (-52.84%)	-1864 (-49%)	-1864 (-49%)	
530	<i>Erebia disa</i> (BECKLIN, 1791)	-1025 (-64.81%)	-956 (-72.41%)	-1068 (-84.68%)	-1249 (-79.05%)	-1166 (-84.29%)	-1242 (-95.25%)	-1405 (-91.32%)	-1347 (-87.12%)	-1285 (-99.89%)	-1472 (-99.89%)	-1472 (-99.89%)	-1446 (-98.03%)	-1446 (-98.03%)	-1446 (-98.03%)	
532	<i>Erebia medusa</i> (FABRICIUS, 1787)	-1416 (-3.66%)	-151 (-34.34%)	-943 (-22.87%)	-2279 (-55.26%)	-1635 (-39.65%)	-1907 (-46.24%)	-111 (-2.69%)	-106 (-2.57%)	-304 (-7.37%)	-3288 (-79.73%)	-2660 (-64.29%)	-2660 (-64.29%)	-2199 (-53.32%)	-2199 (-53.32%)	

Page		2050		2050		2050		2050		2080		2080		2080	
		full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	full dispersal	dispersal	full dispersal	dispersal	no dispersal	dispersal	no dispersal	dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS								
534	<i>Erebia alberganus</i> (DE RUNNER, 1798)	-244 (-23.8%)	-95 (-9.27%)	-208 (-20.29%)	-352 (-34.34%)	-258 (-25.17%)	-328 (-32%)	-513 (-50.05%)	-276 (-26.93%)	-427 (-41.66%)	-685 (-66.83%)	-483 (-47.12%)	-467 (-47.39%)	-585 (-52.89%)	-597 (-52.39%)
536	<i>Erebia phlae</i> (DE PRUNNER, 1798)	-239 (-27.07%)	-145 (-16.42%)	-189 (-21.4%)	-353 (-39.98%)	-274 (-31.03%)	-538 (-34.65%)	-306 (-53%)	-468 (-32.28%)	-437 (-49.49%)	-648 (-73.39%)	-467 (-52.39%)	-467 (-52.39%)	-585 (-52.39%)	-597 (-52.39%)
538	<i>Erebia gorge</i> (ESPER, 1805)	-602 (-35.29%)	-375 (-21.98%)	-452 (-26.49%)	-717 (-42.03%)	-538 (-31.54%)	-578 (-33.88%)	-721 (-42.26%)	-534 (-31.3%)	-587 (-34.41%)	-1128 (-66.12%)	-900 (-52.75%)	-900 (-52.75%)	-884 (-51.82%)	-884 (-51.82%)
540	<i>Erebia mnestra</i> (ESPER, 1805)	75 (26.79%)	160 (57.14%)	72 (25.71%)	-108 (-38.57%)	-68 (-24.29%)	-119 (-42.5%)	-185 (-66.07%)	-69 (-24.64%)	-169 (-60.36%)	-241 (-86.07%)	-173 (-61.79%)	-173 (-61.79%)	-216 (-77.14%)	-216 (-77.14%)
542	<i>Erebia epiphane</i> (HÜBNER, 1819)	-165 (-95.93%)	-165 (-79.65%)	-137 (-97.09%)	-170 (-98.84%)	-167 (-97.09%)	-162 (-94.19%)	-172 (-100%)	-172 (-100%)	-166 (-96.51%)	-172 (-100%)	-172 (-100%)	-172 (-100%)	-172 (-100%)	-172 (-100%)
544	<i>Erebia ottomana</i> (HERRICH-SCHAFFER, 1847)	-95 (-15.06%)	-144 (-22.82%)	-69 (-10.94%)	-304 (-48.18%)	-297 (-47.07%)	-240 (-38.03%)	-118 (-18.7%)	-158 (-25.04%)	-193 (-30.59%)	-476 (-75.44%)	-431 (-68.3%)	-431 (-68.3%)	-212 (-33.6%)	-212 (-33.6%)
546	<i>Erebia hydادرus</i> (ESPER, 1781)	-11 (-2.53%)	51 (11.72%)	-24 (-5.52%)	-204 (-46.9%)	-160 (-36.78%)	-205 (-47.13%)	-205 (-45.98%)	-200 (-45.98%)	-80 (-18.39%)	-251 (-57.7%)	-339 (-77.93%)	-272 (-62.53%)	-357 (-82.07%)	-357 (-82.07%)
548	<i>Erebia cassioides</i> (REINER & HOHNWARTH, 1792) (complex)	-398 (-33.84%)	-320 (-27.21%)	-337 (-28.66%)	-457 (-38.86%)	-378 (-32.14%)	-404 (-34.35%)	-647 (-55.02%)	-525 (-44.64%)	-656 (-55.78%)	-747 (-63.52%)	-630 (-53.57%)	-630 (-53.57%)	-746 (-63.44%)	-746 (-63.44%)
550	<i>Erebia pronoe</i> (ESPER, 1780)	-586 (-34.88%)	-326 (-19.4%)	-407 (-24.23%)	-692 (-41.19%)	-472 (-28.1%)	-570 (-33.93%)	-466 (-27.74%)	-319 (-18.99%)	-315 (-18.75%)	-1011 (-60.18%)	-774 (-46.07%)	-774 (-42.92%)	-721 (-42.92%)	-721 (-42.92%)
552	<i>Erebia styx</i> (FREYER, 1834)	-255 (-59.44%)	-186 (-43.36%)	-200 (-46.62%)	-264 (-61.54%)	-206 (-48.02%)	-227 (-52.91%)	-287 (-66.9%)	-242 (-56.41%)	-247 (-57.58%)	-361 (-84.15%)	-280 (-65.27%)	-280 (-65.27%)	-282 (-65.73%)	-282 (-65.73%)
554	<i>Erebia montana</i> (DE RUNNER, 1798)	-112 (-17.64%)	25 (3.94%)	-303 (-12.13%)	-224 (-47.72%)	-282 (-35.28%)	-332 (-44.41%)	-186 (-52.28%)	-349 (-29.29%)	-512 (-54.96%)	-512 (-80.63%)	-409 (-64.41%)	-409 (-64.41%)	-530 (-83.46%)	-530 (-83.46%)
556	<i>Erebia neoridas</i> (BOISDUVAL, 1828)	18 (2.66%)	-1 (-0.15%)	-10 (-1.48%)	-521 (-76.96%)	-488 (-72.08%)	-473 (-69.87%)	-265 (-39.14%)	-162 (-23.93%)	-219 (-32.35%)	-605 (-89.36%)	-591 (-87.3%)	-591 (-87.3%)	-560 (-82.72%)	-560 (-82.72%)
558	<i>Erebia medus</i> (HERBST, 1796)	121 (18.62%)	40 (6.15%)	179 (27.54%)	-231 (35.54%)	-239 (36.77%)	-158 (24.31%)	-40 (6.15%)	-35 (5.38%)	-416 (6.4%)	-496 (76.31%)	-434 (66.77%)	-434 (66.77%)	-167 (25.69%)	-167 (25.69%)

Page		2050		2050		2050		2050		2080		2080		2080	
		full	dispersal	full	dispersal	no	dispersal	no	dispersal	full	dispersal	no	dispersal	no	dispersal
		BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	GRAS	BAMBU	SEDG
560	<i>Erebia oeme</i> (ESPER, 1805)	-298 (-27.21%)	-32 (-2.92%)	-195 (-17.81%)	-427 (-39%)	-276 (-25.21%)	-357 (-32.6%)	-413 (-37.72%)	-155 (-14.16%)	-260 (-23.74%)	-732 (-66.85%)	-523 (-47.76%)	-523 (-66.85%)	-538 (-49.13%)	
562	<i>Erebia meolans</i> (DE PRUNNER, 1798)	-342 (-12.4%)	-153 (-5.55%)	-89 (-3.23%)	-1389 (-50.36%)	-1103 (-39.99%)	-1130 (-40.97%)	-1145 (-41.52%)	-644 (-23.35%)	-360 (-13.05%)	-2198 (-79.7%)	-1813 (-65.74%)	-1813 (-61.17%)	-1687 (-49.07%)	
564	<i>Erebia pandrose</i> (BORREHAUSEN, 1788)	-1212 (-26.98%)	-779 (-17.34%)	-950 (-21.14%)	-1215 (-27.04%)	-830 (-18.47%)	-1006 (-22.39%)	-1444 (-32.14%)	-1128 (-25.11%)	-883 (-19.65%)	-1546 (-34.41%)	-1265 (-28.15%)	-1265 (-24.62%)	-1106 (-24.62%)	
566	<i>Melanargia russiae</i> (ESPER, 1784)	-982 (-64.82%)	-988 (-65.21%)	-781 (-51.55%)	-1275 (-84.16%)	-1169 (-77.16%)	-1158 (-76.44%)	-752 (-49.64%)	-1026 (-67.72%)	-752 (-49.64%)	-1504 (-9.27%)	-1441 (-95.12%)	-1441 (-89.24%)	-1352 (-48.11%)	
568	<i>Melanargia galathea</i> (LINNAEUS, 1758)	-12 (-0.09%)	912 (6.53%)	884 (6.33%)	-3686 (-26.41%)	-3015 (-21.6%)	-2681 (-19.21%)	-609 (-4.36%)	-22 (-0.16%)	-483 (-3.46%)	-8654 (-6.29%)	-6633 (-47.52%)	-6633 (-34.47%)	-4811 (-34.47%)	
570	<i>Melanargia lachesis</i> (HÜBNER 1790)	-1045 (-74.96%)	-1054 (-75.61%)	-863 (-61.91%)	-1232 (-88.38%)	-1131 (-81.13%)	-1047 (-75.11%)	-910 (-65.28%)	-1129 (-80.99%)	-1055 (-75.68%)	-1394 (-10.00%)	-1374 (-98.57%)	-1374 (-94.98%)	-1324 (-58%)	
572	<i>Melanargia lantissa</i> (ESPER, 1784)	24 (2.14%)	-25 (-2.23%)	127 (11.33%)	-598 (-53.35%)	-534 (-47.64%)	-497 (-44.34%)	-249 (-22.21%)	-410 (-36.57%)	-246 (-21.94%)	-1008 (-89.92%)	-873 (-89.92%)	-873 (-52.27%)	-586 (-33.1%)	
574	<i>Melanargia arge</i> (SULZER, 1776)	719 (116.53%)	497 (80.55%)	488 (79.09%)	-305 (-49.43%)	-291 (-47.16%)	-281 (-45.54%)	655 (106.16%)	767 (124.31%)	776 (125.77%)	-447 (-24.45%)	-409 (-66.29%)	-409 (-53.65%)	-331 (-53.65%)	
576	<i>Melanargia ines</i> <i>occitanica</i> (ESPER, 1793)	-1141 (-81.21%)	-1081 (-76.94%)	-958 (-68.19%)	-1246 (-88.68%)	-1137 (-80.93%)	-1076 (-76.58%)	-1014 (-72.17%)	-1196 (-85.12%)	-1081 (-76.94%)	-1405 (-100%)	-1402 (-100%)	-1402 (-99.79%)	-1345 (-95.73%)	
578	<i>Melanargia ines</i> (HOFFMANNSEGG, 1804)	-657 (-59.3%)	-648 (-58.48%)	-460 (-41.52%)	-690 (-62.27%)	-659 (-59.48%)	-547 (-49.37%)	-1073 (-96.84%)	-1019 (-91.97%)	-794 (-71.66%)	-1073 (-96.84%)	-1019 (-91.97%)	-1019 (-91.97%)	-833 (-75.18%)	
580	<i>Satyrus fernula</i> (FABRICIUS, 1793)	-941 (-42.71%)	-741 (-33.64%)	-703 (-31.91%)	-1572 (-71.36%)	-1333 (-60.51%)	-1206 (-54.74%)	-631 (-28.64%)	-601 (-27.28%)	-378 (-17.16%)	-2036 (-92.42%)	-1846 (-83.79%)	-1846 (-77.44%)	-1706 (-57.44%)	
582	<i>Satyrus actaea</i> (ESPER, 1780)	-669 (-65.51%)	-1060 (-12.36%)	-200 (-84.86%)	-1373 (-81.4%)	-1317 (-72.37%)	-1171 (-62.73%)	-1015 (-62.79%)	-1016 (-62.79%)	-749 (-46.29%)	-1611 (-9.57%)	-1579 (-97.59%)	-1579 (-94.07%)	-1522 (-77.44%)	
584	<i>Minois dryas</i> (SCOPOLI, 1763)	2375 (56.01%)	3822 (90.14%)	2262 (53.35%)	-2311 (-54.5%)	-1934 (-45.61%)	-1957 (-46.16%)	4305 (101.53%)	3810 (89.86%)	3230 (76.18%)	-3463 (-81.67%)	-3066 (-72.31%)	-2611 (-61.58%)	-2611 (-61.58%)	

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal	2080 no dispersal
		BAMBU GRAS	SEDG GRAS	BAMBU SEDG	GRAS	BAMBU GRAS	SEDG	BAMBU GRAS	SEDG	BAMBU GRAS	SEDG
586	<i>Hipparchia fagi</i> (Scopoli, 1763)	830 (12.7%)	2258 (34.54%)	1516 (23.19%)	-2226 (-34.05%)	-1710 (-26.16%)	-1565 (-23.94%)	1334 (20.41%)	1747 (26.72%)	2059 (31.5%)	-4425 (-67.69%)
588	<i>Hipparchia hermine</i> (Linnaeus, 1764)	-1329 (-40.16%)	-1810 (-54.7%)	14 (0.42%)	-2414 (-72.95%)	-2266 (-68.48%)	-1651 (-49.89%)	-2086 (-63.04%)	-2091 (-63.19%)	-906 (-27.38%)	-3191 (-96.43%)
590	<i>Hipparchia syriaca</i> (Staudinger, 1871)	534 (27.83%)	481 (25.07%)	774 (40.33%)	-773 (-40.28%)	-646 (-33.66%)	-595 (-31.01%)	445 (23.19%)	-201 (-10.47%)	652 (33.98%)	-1432 (-74.62%)
592	<i>Hipparchia semele</i> (Linnaeus, 1758)	-3564 (-25.76%)	-3269 (-23.63%)	-2284 (-16.51%)	-4405 (-31.84%)	-4031 (-29.14%)	-3095 (-22.37%)	-8424 (-60.9%)	-6634 (-47.96%)	-5233 (-37.83%)	-9748 (-70.47%)
594	<i>Hipparchia valgensis</i> (Mazochin- Porshnyakov, 1952)	155 (15.8%)	-96 (-9.79%)	426 (43.43%)	-575 (-58.61%)	-549 (-55.96%)	-382 (-38.94%)	-467 (-47.6%)	-432 (-44.04%)	152 (15.49%)	-856 (-87.26%)
596	<i>Hipparchia statilinus</i> (Hufnagel, 1766)	506 (8.27%)	-56 (-0.92%)	1004 (16.41%)	-2640 (-43.16%)	-2416 (-39.5%)	-1947 (-31.83%)	-1068 (-17.46%)	-506 (-8.27%)	-99 (-1.62%)	-856 (-84.81%)
598	<i>Hipparchia fatua</i> (Freyer, 1845)	-92 (-8.98%)	-46 (-4.49%)	-89 (-8.69%)	-513 (-50.1%)	-439 (-42.87%)	-482 (-47.07%)	-426 (-41.6%)	-245 (-23.93%)	235 (22.95%)	-827 (-80.76%)
600	<i>Hipparchia fidia</i> (Linnaeus, 1767)	-1040 (-47.45%)	-1294 (-59.03%)	-731 (-33.35%)	-1875 (-85.54%)	-1644 (-75%)	-1623 (-74.04%)	-1463 (-66.74%)	-1518 (-69.25%)	-1112 (-50.73%)	-693 (-67.68%)
602	<i>Hipparchia semele</i> (Frühstorfer, 1908)	-85 (-10.12%)	-2 (-0.24%)	-62 (-7.38%)	-386 (-45.95%)	-293 (-34.88%)	-350 (-41.67%)	-444 (-52.86%)	-280 (-33.33%)	207 (24.64%)	-767 (-91.31%)
604	<i>Arthrosama arethusa</i> ([Schiffer- müller], 1775)	487 (8.66%)	-64 (-1.14%)	1068 (19%)	-2938 (-52.27%)	-2666 (-47.43%)	-2313 (-41.15%)	-2335 (-41.54%)	-1332 (-23.7%)	-616 (-10.96%)	-5381 (-95.73%)
606	<i>Brintesia circe</i> (Fabricius, 1775)	-42 (-5.63%)	-443 (-5.88%)	1057 (14.02%)	-3143 (-41.69%)	-2864 (-37.99%)	-2308 (-30.61%)	-1518 (-20.14%)	-961 (-12.75%)	185 (2.45%)	-6183 (-82.01%)
608	<i>Chazara briseis</i> (Linnaeus, 1764)	-349 (-4.79%)	-27 (-0.37%)	645 (8.85%)	-2727 (-37.4%)	-2256 (-30.94%)	-1902 (-26.08%)	-2263 (-31.03%)	-1170 (-16.04%)	-402 (-5.51%)	-5429 (-74.45%)

Page		2050 full dispersal	2050 full dispersal	2050 no dispersal	2050 no dispersal	2080 full dispersal	2080 full dispersal	2080 no dispersal	2080 no dispersal	2080	2080
		GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS	BAMBU	SEDG	GRAS
610	<i>Pseudochazara anthedea</i> (LEFEBVRE, 1831)	-181 (-22.13%)	-134 (-16.38%)	-175 (-21.39%)	-385 (-47.07%)	-332 (-40.59%)	-360 (-44.01%)	-322 (-39.36%)	-231 (-28.24%)	193 (-23.59%)	-623 (-76.16%)
612	<i>Oeneis noria</i> (BECKLIN, 1791)	-1729 (-83.25%)	-1680 (-80.89%)	-1683 (-81.03%)	-1737 (-83.63%)	-1687 (-81.22%)	-1691 (-81.42%)	-2065 (-97.54%)	-2026 (-97.42%)	-1899 (-91.43%)	-481 (-58.89%)
614	<i>Oeneis glacialis</i> (MOLL, 1785)	-247 (-26.56%)	-114 (-12.26%)	-192 (-20.65%)	-400 (-43.01%)	-400 (-43.73%)	-323 (-39.57%)	-368 (-51.61%)	-480 (-29.25%)	-272 (-46.24%)	-430 (-76.34%)
616	<i>Oeneis jutta</i> (HÜBNER, 1806)	-1446 (-24.14%)	-1434 (-23.94%)	-1165 (-34.9%)	-2091 (-34.9%)	-2057 (-34.33%)	-1791 (-29.89%)	-2839 (-47.39%)	-2096 (-34.99%)	-1820 (-30.38%)	-3887 (-64.88%)
618	<i>Danaus chrysippus</i> (LINNAEUS, 1758)	-209 (-50.73%)	-171 (-41.5%)	-204 (-49.51%)	-304 (-73.79%)	-262 (-63.59%)	-270 (-65.53%)	-203 (-49.27%)	-195 (-47.33%)	-74 (-17.96%)	-369 (-89.56%)