

UK Summary of changes Table 2016. Summary of species abundance changes in the UK from 2015 to 2016 and long-term (over the entire time series; no. yrs max = 41) and short-term (last 10-years) changes. Significance of trends: * P < 0.05 (significant), ** P < 0.01 (highly significant), ***P < 0.001 (very highly significant). Red text has been used to highlight those species that had their worst year of the series in 2016, and blue text for those species that had their best year of the series in 2016.

Species	Start Year	No. years with Index in 2016	No. sites monitored in 2016	2016 rank	% change 2015-2016	Series trend (%)	10-year trend (%)	Mean flight date 2016	Series mean flight date
Swallowtail	1976	37	4	34	-22	45	-28	01-Jul	01-Jul
Dingy Skipper	1976	41	338	22	-23	-13	51	26-May	01-Jun
Grizzled Skipper	1976	41	227	41	-24	-43**	-38	25-May	28-May
Chequered Skipper	2003	10	21	8	28	-86***	-76*	01-Jun	04-Jun
Essex Skipper	1977	40	850	37	-52	-88***	45	22-Jul	24-Jul
Small Skipper	1976	41	1623	36	-46	-75***	94	19-Jul	20-Jul
Lulworth Skipper	1992	25	15	19	-61	-75**	252	24-Jul	27-Jul
Silver-spotted Skipper	1979	38	44	17	-44	839***	66	15-Aug	15-Aug
Large Skipper	1976	41	1632	36	-38	-19	28	07-Jul	05-Jul
Wood White	1979	38	49	30	7	-90***	5	19-Jun	17-Jun
Cryptic Wood White	N/A	N/A	5	N/A	N/A	N/A	N/A	03-Jun	03-Jun
Orange-tip	1976	41	1524	18	-7	10	43	16-May	16-May
Large White	1976	41	2117	28	-7	-31	-21	21-Jul	21-Jul
Small White	1976	41	2109	28	11	-29	6	23-Jul	21-Jul
Green-veined White	1976	41	2112	27	12	-12	4	11-Jul	08-Jul
Clouded Yellow	1979	38	406	16	35	777*	225	23-Aug	09-Aug
Brimstone	1976	41	1480	15	-28	9	59	01-Jun	08-Jun
Wall	1976	41	657	41	-31	-89***	-26	21-Jul	27-Jul
Speckled Wood	1976	41	1985	18	12	76***	-9	03-Aug	26-Jul
Large Heath	1990	27	3	25	-50	177**	-71	13-Jul	07-Jul
Small Heath	1976	41	1387	39	-26	-58***	13	11-Jul	09-Jul
Mountain Ringlet	N/A	N/A	3	N/A	N/A	N/A	N/A	19-Jul	12-Jul
Scotch Argus	1979	38	46	31	-22	132**	3	10-Aug	08-Aug
Ringlet	1976	41	1976	7	-13	374***	44	13-Jul	14-Jul
Meadow Brown	1976	41	1935	39	-31	-4	11	21-Jul	21-Jul
Gatekeeper	1976	41	1822	40	-48	-44**	-7	31-Jul	01-Aug
Marbled White	1976	41	1015	13	-22	60**	120**	13-Jul	15-Jul
Grayling	1976	41	164	41	-27	-66***	-29	03-Aug	05-Aug
Pearl-bordered Fritillary	1976	41	138	40	-45	-72***	20	29-May	01-Jun
Small Pearl-bordered Fritillary	1976	41	99	40	-6	-63***	-14	17-Jun	25-Jun
Silver-washed Fritillary	1976	41	487	18	-45	146***	17	28-Jul	26-Jul
Dark Green Fritillary	1976	41	333	20	-32	183***	-2	19-Jul	21-Jul
High Brown Fritillary	1978	39	61	25	0	-66*	120	15-Jul	15-Jul
White Admiral	1976	41	223	41	-59	-65***	-52	19-Jul	16-Jul
Purple Emperor	1979	38	73	28	-16	44	-24	23-Jul	20-Jul
Red Admiral	1976	41	908	8	86	251***	-2	08-Aug	05-Aug
Painted Lady	1976	41	749	17	-7	134	-57	24-Jul	30-Jul
Peacock	1976	41	2065	36	-46	11	-4	12-Jun	30-Jun
Small Tortoiseshell	1976	41	2053	38	-47	-75***	123	27-Jun	08-Jul
Comma	1976	41	1771	27	-28	138***	-23	19-Jul	20-Jul
Marsh Fritillary	1981	36	89	30	-32	-25	-50	29-May	05-Jun
Glanville Fritillary	1989	25	7	11	7	-31	-51	05-Jun	09-Jun
Heath Fritillary	1981	36	34	36	-27	-91***	-82***	30-Jun	02-Jul
Duke of Burgundy	1979	37	104	11	19	-40*	90*	28-May	29-May
Small Copper	1976	41	1559	39	6	-47**	-43	09-Aug	01-Aug
Brown Hairstreak	1983	34	96	18	12	10	-9	01-Sep	24-Aug
Purple Hairstreak	1976	41	474	32	13	-56*	-15	31-Jul	30-Jul
Green Hairstreak	1976	41	355	39	-38	-39**	-11	24-May	28-May
White-letter Hairstreak	1976	41	204	41	-42	-97***	-72*	27-Jul	25-Jul
Black Hairstreak	1995	21	11	10	-47	-30	-59	24-Jun	28-Jun
Small Blue	1978	39	166	15	45	4	2	25-Jun	30-Jun
Holly Blue	1976	41	1464	22	-34	44	-25	28-Jun	29-Jun
Large Blue	1983	34	27	2	38	1472***	111	24-Jun	25-Jun
Silver-studded Blue	1979	38	71	19	16	12	48	12-Jul	15-Jul
Brown Argus	1976	41	827	32	-27	-25	28	02-Aug	31-Jul
Northern Brown Argus	1979	38	32	26	18	-53*	47	03-Jul	10-Jul
Common Blue	1976	41	1800	38	-52	-24	27	22-Jul	24-Jul
Adonis Blue	1979	38	92	27	-18	140*	-32	28-Jul	26-Jul
Chalk Hill Blue	1976	41	188	39	-40	8	56	07-Aug	08-Aug