

UK Summary of changes Table 2017. Summary of species abundance changes in the UK from 2016 to 2017 and long-term (over the entire time series; no. yrs max = 42) 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 2017, and blue text for those species that had their best year of the series in 2017.

Species	Start Year	No. years with Index in 2017	No. sites monitored in 2017	2017 rank	% change 2016-2017	Series trend (%)	10-year trend (%)	Mean flight date 2017	Series mean flight date
Swallowtail	1976	41	20	7	202	57	-52	27-Jun	01-Jul
Dingy Skipper	1976	42	562	35	-22	-23	22	24-May	31-May
Grizzled Skipper	1976	42	352	42	-9	-54***	-43	19-May	28-May
Chequered Skipper	2003	15	32	4	141	-38	-33	29-May	04-Jun
Essex Skipper	1977	41	943	33	16	-90***	57	10-Jul	24-Jul
Small Skipper	1976	42	1718	34	22	-75***	68	09-Jul	20-Jul
Lulworth Skipper	1992	26	21	23	-43	-77**	216	20-Jul	28-Jul
Silver-spotted Skipper	1979	39	63	17	5	566***	38	15-Aug	15-Aug
Large Skipper	1976	42	1737	34	9	-26	14	28-Jun	05-Jul
Wood White	1979	39	76	27	50	-88***	26	22-Jun	17-Jun
Cryptic Wood White	N/A	N/A	8	N/A	N/A	N/A	N/A	15-Jun	04-Jun
Orange-tip	1976	42	1649	5	23	15	43	02-May	16-May
Large White	1976	42	2259	35	-19	-38*	-42	19-Jul	21-Jul
Small White	1976	42	2275	37	-16	-31	-21	17-Jul	21-Jul
Green-veined White	1976	42	2231	28	-2	-17	-25	04-Jul	08-Jul
Clouded Yellow	1979	39	909	20	-40	284	419	03-Aug	09-Aug
Brimstone	1976	42	1635	8	10	11	88	31-May	08-Jun
Wall	1976	42	695	40	48	-89***	-42	11-Jul	27-Jul
Speckled Wood	1976	42	2155	9	15	62**	-23	14-Jul	26-Jul
Large Heath	1990	28	34	17	-18	408***	-80*	30-Jun	07-Jul
Small Heath	1976	42	1472	29	65	-58***	-5	09-Jul	09-Jul
Mountain Ringlet	N/A	N/A	2	N/A	N/A	N/A	N/A	09-Jul	15-Jul
Scotch Argus	1979	39	39	35	-3	90	-38	11-Aug	08-Aug
Ringlet	1976	42	2095	2	32	299***	29	04-Jul	14-Jul
Meadow Brown	1976	42	2305	8	58	-3	26	12-Jul	20-Jul
Gatekeeper	1976	42	1987	30	59	-44**	-2	24-Jul	01-Aug
Marbled White	1976	42	1091	9	7	50*	147**	03-Jul	14-Jul
Grayling	1976	42	306	42	-6	-72***	-63*	29-Jul	04-Aug
Pearl-bordered Fritillary	1976	42	186	35	57	-77***	-6	24-May	01-Jun
Small Pearl-bordered Fritillary	1976	42	223	32	22	-68***	-22	17-Jun	24-Jun
Silver-washed Fritillary	1976	42	835	3	141	115***	37	17-Jul	26-Jul
Dark Green Fritillary	1976	42	642	16	20	160***	-12	12-Jul	21-Jul
High Brown Fritillary	1978	40	67	23	17	-67**	225*	09-Jul	15-Jul
White Admiral	1976	42	354	29	157	-71***	-46	04-Jul	16-Jul
Purple Emperor	1979	39	102	23	2	42	-61*	13-Jul	21-Jul
Red Admiral	1976	42	2271	3	78	242***	106	22-Jul	05-Aug
Painted Lady	1976	42	1800	23	-26	56	-33	10-Jul	29-Jul
Peacock	1976	42	2182	36	8	4	-7	10-Jun	29-Jun
Small Tortoiseshell	1976	42	2179	36	18	-75***	84	20-Jun	08-Jul
Comma	1976	42	1962	4	91	129***	-14	12-Jul	20-Jul
Marsh Fritillary	1981	37	166	24	-12	-11	47	28-May	05-Jun
Glanville Fritillary	1989	29	12	13	-31	-28	157	11-Jun	08-Jun
Heath Fritillary	1981	37	40	35	28	-91***	-78***	30-Jun	02-Jul
Duke of Burgundy	1979	39	116	34	-45	-40**	11	20-May	29-May
Small Copper	1976	42	1736	32	28	-46**	-44	20-Jul	01-Aug
Brown Hairstreak	1983	35	163	31	-35	-32	-15	18-Aug	25-Aug
Purple Hairstreak	1976	42	538	27	31	-63*	-21	17-Jul	30-Jul
Green Hairstreak	1976	42	636	38	15	-48**	-34	20-May	27-May
White-letter Hairstreak	1976	42	254	38	55	-93***	-59	09-Jul	24-Jul
Black Hairstreak	1995	23	12	7	2	23	5	09-Jun	27-Jun
Small Blue	1978	40	266	23	-15	-18	-18	23-Jun	30-Jun
Holly Blue	1976	42	1603	18	23	29	30	03-Jun	29-Jun
Large Blue	1983	35	26	3	-5	>1000***	162*	17-Jun	24-Jun
Silver-studded Blue	1979	39	101	10	0	50	44	02-Jul	14-Jul
Brown Argus	1976	42	927	26	35	-27	10	27-Jul	31-Jul
Northern Brown Argus	1979	39	63	36	-31	-60**	-3	01-Jul	10-Jul
Common Blue	1976	42	1947	25	90	-24	-17	16-Jul	23-Jul
Adonis Blue	1979	39	138	17	51	134*	-47	27-Jul	26-Jul
Chalk Hill Blue	1976	42	266	35	17	-7	-9	01-Aug	08-Aug