

ENGLAND Summary of changes table 2018. Summary of species abundance changes in England from 2017 to 2018 and long-term (over the entire time series; no. yrs max = 43) 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 2018, and blue text for those species that had their best year of the series in 2018.

Species	Start Year	No. years with Index in 2018	No. sites monitored in 2018	2018 rank	% change 2017-2018	Series trend (%)	10-year trend (%)
Swallowtail	1976	42	16	33	-54	39	-43
Dingy Skipper	1976	43	572	27	12	-18	-21
Grizzled Skipper	1976	43	365	36	33	-55***	-52*
Essex Skipper	1977	42	990	40	-34	-90***	36
Small Skipper	1976	43	1771	39	-24	-76***	23
Lulworth Skipper	1992	27	23	22	15	-79***	125
Silver-spotted Skipper	1979	40	72	8	87	555***	21
Large Skipper	1976	43	1770	32	7	-26	-20
Wood White	1979	40	69	12	62	-86***	29
Orange-tip	1976	43	1556	10	-7	6	1
Large White	1976	43	2144	7	124	-33	-20
Small White	1976	43	2151	7	152	-21	-4
Green-veined White	1976	43	2065	9	74	-16	-28
Clouded Yellow	1979	40	897	18	18	305	120
Brimstone	1976	43	1695	7	5	12	72
Wall	1976	43	659	34	90	-90***	-32
Speckled Wood	1976	43	2081	3	26	66**	-6
Large Heath	N/A	N/A	7	N/A	N/A	N/A	N/A
Small Heath	1976	43	1419	14	48	-59***	-3
Mountain Ringlet	N/A	N/A	2	N/A	N/A	N/A	N/A
Scotch Argus	1995	24	10	7	236	-71***	-40
Ringlet	1976	43	1986	4	-17	325***	19
Meadow Brown	1976	43	2134	20	-17	-5	38
Gatekeeper	1976	43	1998	38	-20	-50***	-4
Marbled White	1976	43	1176	17	-7	50*	113**
Grayling	1976	43	246	39	38	-62***	-69***
Pearl-bordered Fritillary	1978	41	131	41	-21	-75***	-71*
Small Pearl-bordered Fritillary	1978	41	152	36	-2	-58***	-47*
Silver-washed Fritillary	1976	43	909	5	-11	136***	22
Dark Green Fritillary	1976	43	554	15	9	334***	-25
High Brown Fritillary	1978	41	62	20	21	-67**	277*
White Admiral	1976	43	373	28	10	-70***	-40
Purple Emperor	1979	40	107	7	70	68	-31
Red Admiral	1976	43	2063	30	-75	218***	46
Painted Lady	1976	43	1675	27	-22	38	-73
Peacock	1976	43	2027	42	-26	-6	-38
Small Tortoiseshell	1976	43	1994	41	-39	-78***	-17
Comma	1976	43	1963	20	-34	128***	-17
Marsh Fritillary	1982	37	126	21	25	-66*	-6
Glanville Fritillary	1989	30	6	13	128	-18	3
Heath Fritillary	1981	38	46	27	161	-91***	-39
Duke of Burgundy	1979	40	121	19	65	-40**	4
Small Copper	1976	43	1697	13	74	-38*	-35
Brown Hairstreak	1983	36	160	29	8	-49*	-15
Purple Hairstreak	1976	43	618	5	184	-59*	47
Green Hairstreak	1976	43	630	28	40	-49***	-36
White-letter Hairstreak	1976	43	281	27	55	-92***	-38
Black Hairstreak	1995	24	13	1	926	188	402
Small Blue	1979	40	273	27	-22	-34	-33
Holly Blue	1976	43	1715	9	55	43	137
Large Blue	1983	36	28	1	58	1928***	294**
Silver-studded Blue	1984	35	108	5	63	-17	12
Brown Argus	1976	43	1059	3	157	-13	27
Northern Brown Argus	1979	40	46	34	18	-62**	-17
Common Blue	1976	43	1914	3	110	-14	1
Adonis Blue	1979	40	161	11	58	136*	-51
Chalk Hill Blue	1976	43	290	35	1	-12	-45

SCOTLAND Summary of changes table 2018. Summary of species abundance changes in Scotland from 2017 to 2018 and long-term (over the entire time series; no. yrs max = 40) 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 2018, and blue text for those species that had their best year of the series in 2018.

Species	Start Year	No. years with Index in 2018	No. sites monitored in 2018	2018 rank	% change 2017-2018	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	5	N/A	N/A	N/A	N/A
Chequered Skipper	2003	16	40	7	-28	-32	-34
Small Skipper	N/A	N/A	8	N/A	N/A	N/A	N/A
Large Skipper	N/A	N/A	6	N/A	N/A	N/A	N/A
Orange-tip	1999	20	135	4	12	248***	-12
Large White	1979	40	126	5	278	53	-54
Small White	1979	40	127	3	325	36	-50
Green-veined White	1979	40	185	4	22	8	-10
Clouded Yellow	N/A	N/A	9	N/A	N/A	N/A	N/A
Wall	1999	20	17	2	182	10	216
Speckled Wood	2001	18	54	2	26	13	7
Large Heath	N/A	N/A	25	N/A	N/A	N/A	N/A
Small Heath	1979	40	118	16	35	94*	-32
Mountain Ringlet	N/A	N/A	4	N/A	N/A	N/A	N/A
Scotch Argus	1990	29	31	21	-2	18	-37
Ringlet	1996	23	154	10	44	85*	-23
Meadow Brown	1979	40	153	36	50	-13	-45
Grayling	1990	29	20	27	100	-89***	-91***
Pearl-bordered Fritillary	2002	17	55	3	-11	81*	31
Small Pearl-bordered Fritillary	1979	40	67	16	-3	59*	30
Dark Green Fritillary	1979	40	71	23	47	-20	-68**
Red Admiral	1980	38	142	15	-72	617***	22
Painted Lady	1980	35	109	17	-21	68	-56
Peacock	1995	24	148	8	5	105*	-21
Small Tortoiseshell	1979	40	153	39	0	-63**	-68*
Comma	2006	13	46	5	96	-15	-6
Marsh Fritillary	N/A	N/A	18	N/A	N/A	N/A	N/A
Small Copper	1979	40	112	14	193	-44	-56
Purple Hairstreak	N/A	N/A	7	N/A	N/A	N/A	N/A
Green Hairstreak	1990	29	40	17	12	-26	-41
Small Blue	2005	14	7	6	10	37	-53
Holly Blue	N/A	N/A	4	N/A	N/A	N/A	N/A
Northern Brown Argus	1981	38	16	17	53	-46	40
Common Blue	1979	40	106	21	29	36	-32

WALES Summary of changes table 2018. Summary of species abundance changes in Wales from 2017 to 2018 and long-term (over the entire time series; no. yrs max = 43) 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 2018, and blue text for those species that had their best year of the series in 2018.

Species	Start Year	No. years with Index in 2018	No. sites monitored in 2018	2018 rank	% change 2017-2018	Series trend (%)	10-year trend (%)
Dingy Skipper	2004	15	26	14	-26	18	16
Grizzled Skipper	N/A	N/A	9	N/A	N/A	N/A	N/A
Essex Skipper	N/A	N/A	5	N/A	N/A	N/A	N/A
Small Skipper	1984	35	65	33	-10	5	-17
Large Skipper	1977	42	63	34	63	-63***	3
Orange-tip	1978	41	55	6	-19	371***	1
Large White	1976	43	90	7	74	-7	-35
Small White	1976	43	89	7	187	-52**	-9
Green-veined White	1976	43	87	8	-4	183**	-60
Clouded Yellow	N/A	N/A	29	N/A	N/A	N/A	N/A
Brimstone	1998	21	41	1	26	30	82*
Wall	1976	43	57	31	59	-55**	-54
Speckled Wood	1978	41	83	2	18	254***	7
Large Heath	N/A	N/A	5	N/A	N/A	N/A	N/A
Small Heath	1976	43	68	12	105	-1	-26
Ringlet	1983	36	80	11	-35	238***	23
Meadow Brown	1976	43	90	30	19	15	-19
Gatekeeper	1978	41	76	34	0	48	-49*
Marbled White	N/A	N/A	12	N/A	N/A	N/A	N/A
Grayling	1976	43	36	24	113	-94***	-9
Pearl-bordered Fritillary	1997	22	16	6	15	293**	15
Small Pearl-bordered Fritillary	1992	27	18	17	33	-79**	-48*
Silver-washed Fritillary	1995	22	19	15	-13	-87*	-36
Dark Green Fritillary	1979	40	38	32	11	-87***	-28
High Brown Fritillary	1995	15	9	13	-37	-4	-38
Red Admiral	1976	43	86	21	-65	133*	38
Painted Lady	1977	41	70	14	59	71	-54
Peacock	1976	43	82	38	-27	-37	2
Small Tortoiseshell	1976	43	88	36	27	-39	-50
Comma	1992	27	63	8	-7	151*	-13
Marsh Fritillary	1990	29	27	14	45	-65	200
Small Copper	1976	43	77	9	156	-52*	-20
Brown Hairstreak	2000	19	17	17	-18	4	-54*
Purple Hairstreak	2002	17	15	13	-28	-54	-53
Green Hairstreak	1993	26	18	7	-2	233*	86
White-letter Hairstreak	N/A	N/A	6	N/A	N/A	N/A	N/A
Small Blue	N/A	N/A	9	N/A	N/A	N/A	N/A
Silver-studded Blue	N/A	N/A	9	N/A	N/A	N/A	N/A
Holly Blue	1999	20	48	6	0	-28	115
Brown Argus	1997	22	16	2	216	25	94
Common Blue	1976	43	77	9	94	-13	-42

NORTHERN IRELAND Summary of changes table 2018. Summary of species abundance changes in Northern Ireland from 2017 to 2018 and long-term (over the entire time series; no. yrs max = 15) 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 2018, and blue text for those species that had their best year of the series in 2018.

Species	Start Year	No. years with Index in 2018	No. sites monitored in 2018	2018 rank	% change 2017-2018	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	3	N/A	N/A	N/A	N/A
Cryptic Wood White	N/A	N/A	15	N/A	N/A	N/A	N/A
Orange-tip	2007	12	29	9	3	-44	-44
Large White	2006	13	38	7	32	-44	-49
Small White	2006	13	37	4	103	-65*	-53
Green-veined White	2005	14	41	3	0	103*	23
Clouded Yellow	N/A	N/A	2	N/A	N/A	N/A	N/A
Wall	N/A	N/A	1	N/A	N/A	N/A	N/A
Speckled Wood	2007	12	41	3	-2	32	21
Large Heath	N/A	N/A	2	N/A	N/A	N/A	N/A
Small Heath	2004	15	21	7	62	-49	-54
Ringlet	2006	13	41	6	-11	92	10
Meadow Brown	2009	10	41	9	27	-51*	-51*
Grayling	N/A	N/A	6	N/A	N/A	N/A	N/A
Silver-washed Fritillary	N/A	N/A	8	N/A	N/A	N/A	N/A
Dark Green Fritillary	N/A	N/A	14	N/A	N/A	N/A	N/A
Red Admiral	N/A	N/A	38	N/A	N/A	N/A	N/A
Painted Lady	N/A	N/A	27	N/A	N/A	N/A	N/A
Peacock	2006	13	35	3	114	-59	104
Small Tortoiseshell	2010	9	40	7	66	-71**	-71**
Marsh Fritillary	2004	15	9	1	288	16	18
Small Copper	2005	14	21	4	457	-76	-82
Purple Hairstreak	N/A	N/A	1	N/A	N/A	N/A	N/A
Green Hairstreak	N/A	N/A	3	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	12	N/A	N/A	N/A	N/A
Common Blue	2005	14	19	7	75	-27	-7