

**ENGLAND** Summary of changes table 2017. Summary of species abundance changes in England 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 (%)
Swallowtail	1976	41	13	5	202	58	-22
Dingy Skipper	1976	42	530	33	-17	-17	18
Grizzled Skipper	1976	42	344	42	-9	-54***	-43
Essex Skipper	1977	41	926	33	13	-90***	57
Small Skipper	1976	42	1651	34	24	-75***	66
Lulworth Skipper	1992	26	21	23	-43	-77**	216
Silver-spotted Skipper	1979	39	63	17	5	566***	38
Large Skipper	1976	42	1656	33	12	-24	12
Wood White	1979	39	76	27	50	-88***	26
Orange-tip	1976	42	1459	6	20	5	47
Large White	1976	42	2001	35	-20	-38*	-43
Small White	1976	42	2019	36	-18	-29	-21
Green-veined White	1976	42	1923	33	-11	-21	-29
Clouded Yellow	1979	39	851	19	-40	309	432
Brimstone	1976	42	1593	8	10	8	85
Wall	1976	42	600	41	35	-90***	-46
Speckled Wood	1976	42	1949	9	15	60**	-23
Large Heath	N/A	N/A	2	N/A	N/A	N/A	N/A
Small Heath	1976	42	1276	29	77	-63***	0
Mountain Ringlet	N/A	N/A	1	N/A	N/A	N/A	N/A
Scotch Argus	1995	23	11	21	-12	-77***	-59
Ringlet	1976	42	1850	2	32	319***	29
Meadow Brown	1976	42	2018	7	62	-5	28
Gatekeeper	1976	42	1885	29	65	-49***	-1
Marbled White	1976	42	1080	9	7	48*	147**
Grayling	1976	42	234	42	-8	-60***	-62*
Pearl-bordered Fritillary	1978	40	121	39	6	-72***	-48
Small Pearl-bordered Fritillary	1978	40	143	26	44	-56***	-17
Silver-washed Fritillary	1976	42	814	2	146	128***	38
Dark Green Fritillary	1976	42	524	16	21	340***	0
High Brown Fritillary	1978	40	58	23	14	-68**	225*
White Admiral	1976	42	351	29	157	-71***	-46
Purple Emperor	1979	39	102	23	2	42	-61*
Red Admiral	1976	42	1993	2	74	249***	122
Painted Lady	1976	42	1594	22	-22	49	-36
Peacock	1976	42	1918	36	2	5	-6
Small Tortoiseshell	1976	42	1900	35	20	-75***	100
Comma	1976	42	1836	4	91	130***	-14
Marsh Fritillary	1982	36	114	26	-24	-65*	48
Glanville Fritillary	1989	29	7	20	-74	-36	64
Heath Fritillary	1981	37	40	35	28	-91***	-78***
Duke of Burgundy	1979	39	116	34	-45	-40**	11
Small Copper	1976	42	1535	28	46	-42*	-42
Brown Hairstreak	1983	35	142	32	-14	-48*	-28
Purple Hairstreak	1976	42	517	28	27	-65*	-22
Green Hairstreak	1976	42	571	38	16	-51***	-35
White-letter Hairstreak	1976	42	243	37	60	-93***	-56
Black Hairstreak	1995	23	12	7	2	23	5
Small Blue	1979	39	248	22	-15	-33	-4
Holly Blue	1976	42	1515	16	23	29	35
Large Blue	1983	35	26	3	-5	1649***	162*
Silver-studded Blue	1984	34	93	19	2	-23	9
Brown Argus	1976	42	898	26	35	-25	10
Northern Brown Argus	1979	39	49	36	-31	-60**	-4
Common Blue	1976	42	1743	23	94	-23	-11
Adonis Blue	1979	39	138	17	51	134*	-47
Chalk Hill Blue	1976	42	266	35	17	-7	-9

**SCOTLAND** Summary of changes table 2017. Summary of species abundance changes in Scotland from 2016 to 2017 and long-term (over the entire time series; no. yrs max = 39) 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 (%)
Dingy Skipper	N/A	N/A	1	N/A	N/A	N/A	N/A
Chequered Skipper	2003	15	32	4	141	-39	-34
Small Skipper	N/A	N/A	5	N/A	N/A	N/A	N/A
Large Skipper	N/A	N/A	3	N/A	N/A	N/A	N/A
Orange-tip	1999	19	113	4	38	218***	5
Large White	1979	39	98	33	44	17	-76
Small White	1979	39	101	33	2	21	-68
Green-veined White	1979	39	159	8	59	4	11
Clouded Yellow	N/A	N/A	2	N/A	N/A	N/A	N/A
Wall	1999	19	13	13	3	-70	231
Speckled Wood	2001	17	53	2	29	1	-7
Large Heath	N/A	N/A	5	N/A	N/A	N/A	N/A
Small Heath	1979	39	97	26	5	89*	-35
Mountain Ringlet	N/A	N/A	1	N/A	N/A	N/A	N/A
Scotch Argus	1990	28	28	19	29	24	-14
Ringlet	1996	22	123	16	-8	90*	-30
Meadow Brown	1979	39	128	38	-42	-8	-49
<b>Grayling</b>	<b>1990</b>	<b>28</b>	<b>16</b>	<b>28</b>	<b>-36</b>	<b>-87***</b>	<b>-89***</b>
Pearl-bordered Fritillary	2002	16	49	2	139	68	41
Small Pearl-bordered Fritillary	1979	39	61	14	-17	73*	-7
Dark Green Fritillary	1979	39	64	35	-26	-20	-67**
<b>Red Admiral</b>	<b>1980</b>	<b>37</b>	<b>124</b>	<b>1</b>	<b>664</b>	<b>615**</b>	<b>2</b>
Painted Lady	1980	34	90	15	-47	42	-26
Peacock	1995	23	124	10	83	108	-33
<b>Small Tortoiseshell</b>	<b>1979</b>	<b>39</b>	<b>131</b>	<b>39</b>	<b>-15</b>	<b>-54*</b>	<b>-37</b>
Comma	2006	12	38	11	-35	-22	-37
Marsh Fritillary	N/A	N/A	15	N/A	N/A	N/A	N/A
Small Copper	1979	39	87	37	-52	-52*	-64*
Green Hairstreak	1990	28	31	22	131	-53	-47
Small Blue	2005	13	5	7	44	30	-44
Holly Blue	N/A	N/A	1	N/A	N/A	N/A	N/A
Northern Brown Argus	1981	37	14	24	-37	-52	10
Common Blue	1979	39	85	24	0	35	-18

**WALES** Summary of changes table 2017. Summary of species abundance changes in Wales 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 (%)
Dingy Skipper	2004	14	26	11	-54	55	78
Grizzled Skipper	N/A	N/A	4	N/A	N/A	N/A	N/A
Essex Skipper	N/A	N/A	1	N/A	N/A	N/A	N/A
Small Skipper	1984	34	63	32	-41	14	94
<b>Large Skipper</b>	<b>1977</b>	<b>41</b>	<b>56</b>	<b>41</b>	<b>-59</b>	<b>-68***</b>	<b>46</b>
Orange-tip	1978	40	49	3	35	375***	28
Large White	1976	42	90	24	7	-15	-60
Small White	1976	42	87	30	31	-58***	-33
Green-veined White	1976	42	83	7	59	173**	-51
Clouded Yellow	N/A	N/A	3	N/A	N/A	N/A	N/A
Brimstone	1998	20	33	11	-15	0	89*
Wall	1976	42	52	40	72	-55**	-40
Speckled Wood	1978	40	82	4	23	240***	-5
Large Heath	N/A	N/A	1	N/A	N/A	N/A	N/A
Small Heath	1976	42	59	41	3	-1	-23
Ringlet	1983	35	75	4	12	246***	90*
Meadow Brown	1976	42	87	37	13	20	-17
Gatekeeper	1978	40	74	32	-29	64*	-38
Marbled White	N/A	N/A	7	N/A	N/A	N/A	N/A
Grayling	1976	42	33	32	7	-95***	-8
Pearl-bordered Fritillary	1997	21	16	10	9	293**	103
Small Pearl-bordered Fritillary	1993	25	19	21	4	-72*	-37
Silver-washed Fritillary	1995	21	17	13	31	-87*	-17
Dark Green Fritillary	1979	39	39	32	-12	-88***	5
High Brown Fritillary	1995	14	9	10	-38	9	7
Red Admiral	1976	42	89	4	145	137*	51
Painted Lady	1977	40	68	19	-34	88	-26
Peacock	1976	42	77	27	29	-30	23
Small Tortoiseshell	1976	42	82	37	-18	-36	-5
Comma	1992	26	65	5	119	133*	-16
Marsh Fritillary	1990	28	26	18	31	-71*	607*
Small Copper	1976	42	66	34	54	-56*	-30
<b>Brown Hairstreak</b>	<b>2004</b>	<b>14</b>	<b>21</b>	<b>14</b>	<b>-41</b>	<b>-33</b>	<b>-15</b>
Purple Hairstreak	2002	16	12	10	279	-59	-63
Green Hairstreak	1993	25	16	7	8	143	46
White-letter Hairstreak	N/A	N/A	4	N/A	N/A	N/A	N/A
Small Blue	N/A	N/A	6	N/A	N/A	N/A	N/A
Silver-studded Blue	N/A	N/A	7	N/A	N/A	N/A	N/A
Holly Blue	1999	19	49	7	129	-42	-9
Brown Argus	1997	21	15	10	47	27	14
Common Blue	1976	42	74	31	87	-14	-55

**NORTHERN IRELAND** Summary of changes table 2017. Summary of species abundance changes in Northern Ireland from 2016 to 2017 and long-term (over the entire time series; no. yrs max = 14) 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 (%)
Dingy Skipper	N/A	N/A	2	N/A	N/A	N/A	N/A
Cryptic Wood White	N/A	N/A	8	N/A	N/A	N/A	N/A
Orange-tip	2007	11	24	9	-8	-46	-37
Large White	2006	12	40	10	57	-52	-62*
Small White	2006	12	38	10	2	-75**	-71*
Green-veined White	2005	13	43	3	82	106	22
Speckled Wood	2007	11	42	2	59	20	19
Small Heath	2009	9	18	8	-1	-68	-68
Ringlet	2006	12	44	5	24	101	96
Meadow Brown	2009	9	43	9	-35	-52**	-52**
Grayling	N/A	N/A	1	N/A	N/A	N/A	N/A
Silver-washed Fritillary	N/A	N/A	2	N/A	N/A	N/A	N/A
Dark Green Fritillary	N/A	N/A	9	N/A	N/A	N/A	N/A
Red Admiral	N/A	N/A	30	N/A	N/A	N/A	N/A
Painted Lady	N/A	N/A	8	N/A	N/A	N/A	N/A
Peacock	2006	12	34	6	100	-74	-18
<b>Small Tortoiseshell</b>	<b>2010</b>	<b>8</b>	<b>41</b>	<b>8</b>	<b>-15</b>	<b>-79**</b>	<b>-79**</b>
Marsh Fritillary	2004	14	9	10	62	-30	-39
<b>Small Copper</b>	<b>2005</b>	<b>13</b>	<b>20</b>	<b>1</b>	<b>1700</b>	<b>-46</b>	<b>-56</b>
Green Hairstreak	N/A	N/A	1	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	3	N/A	N/A	N/A	N/A
Common Blue	2005	13	15	11	-29	-20	14