

ENGLAND Summary of changes table 2020. Summary of species abundance changes in England from 2019 to 2020 and long-term (over the entire time series; no. yrs max = 45) 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 2020, and blue text for those species that had their best year of the series in 2020.

Species	Start Year	No. years with Index in 2020	No. sites monitored in 2020	2020 rank	% change 2019-2020	Series trend (%)	10-year trend (%)
Swallowtail	1976	44	15	9	71	40	-10
Dingy Skipper	1976	45	548	8	23	-6	-10
Grizzled Skipper	1976	45	352	18	21	-47***	-37
Essex Skipper	1977	44	952	30	-17	-22	52
Small Skipper	1976	45	1651	35	-9	-73***	18
Lulworth Skipper	1992	29	23	17	-9	-76**	17
Silver-spotted Skipper	1979	42	64	3	20	640***	44
Large Skipper	1976	45	1646	25	-2	-21	8
Wood White	1979	42	67	17	-2	-83***	117
Orange-tip	1976	45	1397	6	-31	22	25
Large White	1976	45	1943	13	29	-30	66
Small White	1976	45	1947	11	26	-13	94
Green-veined White	1976	45	1863	25	25	-17	-1
Clouded Yellow	1979	42	803	13	74	741*	225
Brimstone	1976	45	1581	6	-20	26	91*
Wall	1976	45	588	38	-4	-88***	13
Speckled Wood	1976	45	1865	28	-19	104***	7
Large Heath	N/A	N/A	9	N/A	N/A	N/A	N/A
Small Heath	1976	45	1360	15	-7	-52***	40
Mountain Ringlet	N/A	N/A	1	N/A	N/A	N/A	N/A
Scotch Argus	1995	26	9	23	-8	-75***	-47
Ringlet	1976	45	1819	21	-43	354***	20
Meadow Brown	1976	45	1941	10	-15	1	38
Gatekeeper	1976	45	1844	30	-17	-46**	42
Marbled White	1976	45	1175	5	-28	74**	93*
Grayling	1976	45	231	33	8	-59***	-34
Pearl-bordered Fritillary	1978	43	115	33	7	-72***	-41
Small Pearl-bordered Fritillary	1978	43	124	43	-26	-60***	-55**
Silver-washed Fritillary	1976	45	875	9	-17	285***	47
Dark Green Fritillary	1976	45	566	2	12	482***	11
High Brown Fritillary	1978	43	45	21	17	-66**	264*
White Admiral	1976	45	349	32	0	-61***	12
Purple Emperor	1979	42	112	17	-21	137**	33
Red Admiral	1976	45	1904	10	-22	257***	47
Painted Lady	1976	45	1752	37	-98	95	535
Peacock	1976	45	1883	8	38	3	30
Small Tortoiseshell	1976	45	1799	30	105	-79***	-16
Comma	1976	45	1806	21	-2	197***	26
Marsh Fritillary	1982	39	130	34	-34	-61*	51
Glanville Fritillary	1989	32	6	2	59	20	949
Heath Fritillary	1981	40	36	33	0	-91***	21
Duke of Burgundy	1979	42	96	6	2	-34*	25
Small Copper	1976	45	1578	22	-3	-32	40
Brown Hairstreak	1983	38	153	15	-22	0	84**
Purple Hairstreak	1976	45	581	9	38	-29	137
Green Hairstreak	1976	45	601	16	-11	-34*	68
White-letter Hairstreak	1976	45	268	22	5	-77***	110
Black Hairstreak	1995	26	12	4	-74	435*	2919*
Small Blue	1979	42	275	12	-13	-17	53
Holly Blue	1976	45	1602	10	4	146*	174
Large Blue	1983	38	12	2	0	2191***	330**
Silver-studded Blue	1984	37	113	4	29	-4	111*
Brown Argus	1976	45	1010	27	-40	26	95
Northern Brown Argus	1979	42	33	28	-6	-59**	-1
Common Blue	1976	45	1738	34	-12	-15	46
Adonis Blue	1979	42	169	30	-25	116*	-53
Chalk Hill Blue	1976	45	275	15	32	-5	-49

SCOTLAND Summary of changes table 2020. Summary of species abundance changes in Scotland from 2019 to 2020 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 2020, and blue text for those species that had their best year of the series in 2020.

Species	Start Year	No. years with Index in 2020	No. sites monitored in 2020	2020 rank	% change 2019-2020	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	4	N/A	N/A	N/A	N/A
Chequered Skipper	2003	18	9	7	-62	8	94
Small Skipper	N/A	N/A	15	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	22	82	5	-51	444***	70
Large White	1979	42	95	26	-50	102	66
Small White	1979	42	103	20	-28	70	33
Green-veined White	1979	42	128	34	-43	4	-4
Clouded Yellow	N/A	N/A	7	N/A	N/A	N/A	N/A
Wall	1999	22	11	3	-15	607***	419*
Speckled Wood	2001	20	41	5	-44	106**	120*
Large Heath	N/A	N/A	21	N/A	N/A	N/A	N/A
Small Heath	1979	42	84	1	23	150***	58
Mountain Ringlet	N/A	N/A	3	N/A	N/A	N/A	N/A
Scotch Argus	1990	31	26	19	10	11	-52*
Ringlet	1996	25	113	4	-5	293***	21
Meadow Brown	1979	42	109	19	0	-6	29
Grayling	1990	31	19	29	-15	-90***	-79**
Pearl-bordered Fritillary	2002	19	17	2	-34	204***	122
Small Pearl-bordered Fritillary	1979	42	41	10	-8	78*	162***
Dark Green Fritillary	1979	42	59	16	-13	5	-26
Red Admiral	1980	40	112	4	0	902***	345
Painted Lady	1980	37	99	26	-99	147	1685
Peacock	1995	26	114	2	-17	256***	164
Small Tortoiseshell	1979	42	123	15	55	-59**	-38
Comma	2006	15	42	10	-19	209	83
Marsh Fritillary	2006	15	21	13	-35	-73	258
Small Copper	1979	42	91	37	-58	-42	-46
Purple Hairstreak	N/A	N/A	4	N/A	N/A	N/A	N/A
Green Hairstreak	1990	31	26	15	-31	17	37
Small Blue	N/A	N/A	3	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	3	N/A	N/A	N/A	N/A
Northern Brown Argus	1981	40	14	3	70	26	152*
Common Blue	1979	42	79	14	0	48	5

WALES Summary of changes table 2020. Summary of species abundance changes in Wales from 2019 to 2020 and long-term (over the entire time series; no. yrs max = 45) 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 2020, and blue text for those species that had their best year of the series in 2020.

Species	Start Year	No. years with Index in 2020	No. sites monitored in 2020	2020 rank	% change 2019-2020	Series trend (%)	10-year trend (%)
Dingy Skipper	2004	17	16	7	-11	53	-16
Grizzled Skipper	N/A	N/A	5	N/A	N/A	N/A	N/A
Essex Skipper	N/A	N/A	3	N/A	N/A	N/A	N/A
Small Skipper	1984	37	42	33	-34	12	-57
Large Skipper	1977	44	37	33	3	-62***	1
Orange-tip	1978	43	32	12	-46	383***	9
Large White	1976	45	50	18	65	-7	15
Small White	1976	45	50	11	86	-47*	55
Green-veined White	1976	45	47	14	14	173**	-49
Clouded Yellow	N/A	N/A	16	N/A	N/A	N/A	N/A
Brimstone	1998	23	23	2	-27	111**	249***
Wall	1976	45	32	44	-61	-58**	-47
Speckled Wood	1978	43	46	18	-28	255***	38
Large Heath	N/A	N/A	2	N/A	N/A	N/A	N/A
Small Heath	1976	45	37	41	-41	-2	-34
Ringlet	1983	38	46	12	-21	299***	-9
Meadow Brown	1976	45	50	22	-15	16	-13
Gatekeeper	1978	43	46	29	-9	40	-33
Marbled White	N/A	N/A	7	N/A	N/A	N/A	N/A
Grayling	1976	45	20	44	-55	-95***	-60
Pearl-bordered Fritillary	N/A	N/A	2	N/A	N/A	N/A	N/A
Small Pearl-bordered Fritillary	1992	29	13	26	-45	-77**	-47*
Silver-washed Fritillary	1995	24	14	15	-7	-59	10
Dark Green Fritillary	1979	42	25	25	-28	-84***	5
High Brown Fritillary	1995	17	9	4	79	9	24
Red Admiral	1976	45	48	7	7	167*	242*
Painted Lady	1977	43	45	29	-99	45	1344
Peacock	1976	45	50	7	3	-20	91
Small Tortoiseshell	1976	45	48	7	105	-27	-28
Comma	1992	29	40	11	-6	276***	72
Marsh Fritillary	1990	31	24	24	-63	-65	58
Small Copper	1976	45	41	36	-45	-48*	5
Brown Hairstreak	2004	17	16	7	11	-38	-43
Purple Hairstreak	2002	19	11	3	232	-22	287
Green Hairstreak	1993	28	14	3	-17	432***	514**
White-letter Hairstreak	N/A	N/A	5	N/A	N/A	N/A	N/A
Small Blue	N/A	N/A	5	N/A	N/A	N/A	N/A
Silver-studded Blue	N/A	N/A	6	N/A	N/A	N/A	N/A
Holly Blue	1999	22	27	3	35	44	308**
Brown Argus	1997	24	11	6	-11	88	202
Common Blue	1976	45	44	42	-35	-26	-36

NORTHERN IRELAND Summary of changes table 2020. Summary of species abundance changes in Northern Ireland from 2019 to 2020 and long-term (over the entire time series; no. yrs max = 17) 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 2020, and blue text for those species that had their best year of the series in 2020.

Species	Start Year	No. years with Index in 2020	No. sites monitored in 2020	2020 rank	% change 2019-2020	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	0	N/A	N/A	N/A	N/A
Cryptic Wood White	2009	12	10	2	26	66	76
Orange-tip	2007	14	22	5	-29	3	58
Large White	2006	15	29	15	-32	-61*	-58
Small White	2006	15	26	14	-38	-69**	-31
Green-veined White	2005	16	31	14	11	17	-48
Clouded Yellow	N/A	N/A	4	N/A	N/A	N/A	N/A
Wall	N/A	N/A	2	N/A	N/A	N/A	N/A
Speckled Wood	2007	14	29	5	-19	56	62
Large Heath	N/A	N/A	1	N/A	N/A	N/A	N/A
Small Heath	2004	17	16	12	-30	-44	-29
Ringlet	2006	15	30	13	-42	67	-48
Meadow Brown	2009	12	30	9	-31	-41	-22
Grayling	N/A	N/A	6	N/A	N/A	N/A	N/A
Silver-washed Fritillary	N/A	N/A	3	N/A	N/A	N/A	N/A
Dark Green Fritillary	N/A	N/A	12	N/A	N/A	N/A	N/A
Red Admiral	N/A	N/A	31	N/A	N/A	N/A	N/A
Painted Lady	N/A	N/A	28	N/A	N/A	N/A	N/A
Peacock	2006	15	30	4	-57	18	824*
Small Tortoiseshell	2010	11	30	1	297	13	68
Marsh Fritillary	2004	17	9	5	-63	92	255
Small Copper	2005	16	19	4	3	-37	2
Purple Hairstreak	N/A	N/A	1	N/A	N/A	N/A	N/A
Green Hairstreak	N/A	N/A	2	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	11	N/A	N/A	N/A	N/A
Common Blue	2005	16	15	9	-34	-21	9