

ENGLAND Summary of changes table 2022. Summary of species abundance changes in England from 2021 to 2022 and long-term (over the entire time series; no. yrs max = 47) 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 2022, and blue text for those species that had their best year of the series in 2022.

Species	Start Year	No. years with Index in 2022	No. sites monitored in 2022	2022 rank	% change 2021-2022	Series trend (%)	10-year trend (%)
Swallowtail	1976	46	18	31	-15	25	9
Dingy Skipper	1976	47	687	7	13	5	21
Grizzled Skipper	1976	47	420	39	-16	-45***	23
Chequered Skipper	N/A	N/A	2	N/A	N/A	N/A	N/A
Essex Skipper	1977	46	1175	28	3	-22	-20
Small Skipper	1976	47	2114	37	9	-73***	-37*
Lulworth Skipper	1992	31	25	10	99	-71**	-13
Silver-spotted Skipper	1979	44	78	16	4	542***	-10
Large Skipper	1976	47	2117	41	5	-25	-29
Wood White	1979	44	80	20	6	-81***	82
Orange-tip	1976	47	1896	8	7	27*	34
Large White	1976	47	2487	36	5	-32	-19
Small White	1976	47	2487	28	-11	-12	1
Green-veined White	1976	47	2358	40	12	-23	-37
Clouded Yellow	1979	44	972	10	265	708*	-59
Brimstone	1976	47	2064	12	-2	30*	0
Wall	1976	47	745	34	38	-87***	4
Speckled Wood	1976	47	2409	16	18	95***	-13
Large Heath	N/A	N/A	8	N/A	N/A	N/A	N/A
Small Heath	1976	47	1750	35	-24	-50***	42
Mountain Ringlet	N/A	N/A	1	N/A	N/A	N/A	N/A
Scotch Argus	1995	28	12	21	-15	-74***	-12
Ringlet	1976	47	2373	9	41	322***	-28
Meadow Brown	1976	47	2500	34	-8	-2	4
Gatekeeper	1976	47	2350	30	14	-45***	14
Marbled White	1976	47	1513	12	-7	75**	9
Grayling	1976	47	274	37	0	-57***	8
Pearl-bordered Fritillary	1978	45	141	42	-6	-73***	21
Small Pearl-bordered Fritillary	1978	45	144	45	-30	-64***	-42**
Silver-washed Fritillary	1976	47	1090	9	7	293***	-9
Dark Green Fritillary	1976	47	717	2	-2	567***	74
High Brown Fritillary	1978	45	51	33	-17	-64**	15
White Admiral	1976	47	421	30	46	-61***	-10
Purple Emperor	1979	44	144	2	55	136**	9
Red Admiral	1976	47	2435	23	-49	264***	109
Painted Lady	1976	47	2195	17	5	98	152
Peacock	1976	47	2413	39	-34	1	-38
Small Tortoiseshell	1976	47	2337	43	-34	-80***	-61
Comma	1976	47	2297	14	42	177***	-10
Marsh Fritillary	1982	41	142	11	82	-58*	-6
Glanville Fritillary	1989	34	11	6	-68	167	2338*
Heath Fritillary	1981	42	36	34	-10	-90***	95
Duke of Burgundy	1979	44	112	20	26	-35*	20
Small Copper	1976	47	2000	45	-31	-37*	13
Brown Hairstreak	1983	40	171	23	-48	-6	32
Purple Hairstreak	1976	47	731	28	2	-26	47
Green Hairstreak	1976	47	729	22	73	-35*	46
White-letter Hairstreak	1976	47	333	30	-4	-76***	78
Black Hairstreak	1995	28	15	5	-31	475**	634
Small Blue	1979	44	335	8	23	-2	107**
Holly Blue	1976	47	2023	14	82	137*	119
Large Blue	1983	40	19	2	70	2215***	225*
Silver-studded Blue	1984	39	123	8	-9	16	117**
Brown Argus	1976	47	1282	25	2	24	-2
Northern Brown Argus	1979	44	49	41	-48	-60***	-16
Common Blue	1976	47	2223	31	20	-17	-27
Adonis Blue	1979	44	211	26	-23	100*	-29
Chalk Hill Blue	1976	47	333	7	-15	3	5

SCOTLAND Summary of changes table 2022. Summary of species abundance changes in Scotland from 2021 to 2022 and long-term (over the entire time series; no. yrs max = 44) 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 2022, and blue text for those species that had their best year of the series in 2022.

Species	Start Year	No. years with Index in 2022	No. sites monitored in 2022	2022 rank	% change 2021-2022	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	3	N/A	N/A	N/A	N/A
Chequered Skipper	2003	20	10	2	-13	92	460**
Small Skipper	N/A	N/A	34	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	24	145	6	17	375***	57
Large White	1979	44	168	19	-11	106*	21
Small White	1979	44	177	14	41	72	18
Green-veined White	1979	44	200	38	-15	-5	-47
Clouded Yellow	N/A	N/A	0	N/A	N/A	N/A	N/A
Wall	1999	24	38	5	-65	786***	375*
Speckled Wood	2001	22	87	1	87	168***	191**
Large Heath	2003	20	20	6	62	-26	-35
Small Heath	1979	44	133	21	-40	145***	46
Mountain Ringlet	N/A	N/A	3	N/A	N/A	N/A	N/A
Scotch Argus	1990	33	24	33	-53	-11	-48*
Ringlet	1996	27	189	6	-2	280***	16
Meadow Brown	1979	44	189	12	0	1	36
Grayling	1990	33	25	26	6	-90***	-38
Pearl-bordered Fritillary	2002	21	16	9	-48	225***	98
Small Pearl-bordered Fritillary	1979	44	58	27	-57	98**	73
Dark Green Fritillary	1979	44	82	22	-26	17	-1
Red Admiral	1980	42	182	9	118	833***	272
Painted Lady	1980	39	145	15	124	141	344
Peacock	1995	28	189	4	52	224***	56
Small Tortoiseshell	1979	44	197	40	-31	-61**	-40
Comma	2006	17	66	12	13	99	-45
Marsh Fritillary	2006	17	41	10	-3	-67	-64*
Small Copper	1979	44	146	42	-38	-46*	-30
Purple Hairstreak	N/A	N/A	4	N/A	N/A	N/A	N/A
Green Hairstreak	1990	33	30	15	3	29	20
Small Blue	N/A	N/A	7	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	6	N/A	N/A	N/A	N/A
Northern Brown Argus	1981	42	20	18	-46	41	125*
Common Blue	1979	44	123	33	-50	39	-25

WALES Summary of changes table 2022. Summary of species abundance changes in Wales from 2021 to 2022 and long-term (over the entire time series; no. yrs max = 47) 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 2022, and blue text for those species that had their best year of the series in 2022.

Species	Start Year	No. years with Index in 2022	No. sites monitored in 2022	2022 rank	% change 2021-2022	Series trend (%)	10-year trend (%)
Dingy Skipper	2004	19	26	17	30	-8	-61
Grizzled Skipper	N/A	N/A	3	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	39	65	36	26	-7	-81***
Large Skipper	1977	46	54	43	-28	-63***	-44
Orange-tip	1978	45	51	8	0	352***	1
Large White	1976	47	79	32	-9	-15	-18
Small White	1976	47	83	16	34	-41*	2
Green-veined White	1976	47	74	25	20	129**	-66*
Clouded Yellow	N/A	N/A	9	N/A	N/A	N/A	N/A
Brimstone	1998	25	40	7	45	48	12
Wall	1976	47	48	35	1	-58***	-47
Speckled Wood	1978	45	78	16	2	237***	-20
Large Heath	N/A	N/A	3	N/A	N/A	N/A	N/A
Small Heath	1976	47	53	42	-41	-5	-30
Ringlet	1983	40	69	14	11	230***	-55***
Meadow Brown	1976	47	84	39	-5	2	-26
Gatekeeper	1978	45	77	26	23	23	-37
Marbled White	N/A	N/A	3	N/A	N/A	N/A	N/A
Grayling	1976	47	32	26	39	-93***	-54
Pearl-bordered Fritillary	1997	26	13	9	7	263**	-44
Small Pearl-bordered Fritillary	1992	31	17	15	-11	-70*	-2
Silver-washed Fritillary	1995	26	22	20	-36	-75	-39*
Dark Green Fritillary	1979	44	37	20	0	-80***	20
High Brown Fritillary	1995	19	9	13	-17	6	-53
Red Admiral	1976	47	80	18	-2	144*	85
Painted Lady	1977	45	71	22	61	35	228
Peacock	1976	47	74	46	-26	-44*	-62*
Small Tortoiseshell	1976	47	81	39	-26	-42	-48
Comma	1992	31	62	18	-19	173**	-15
Marsh Fritillary	1990	33	20	21	-24	-61	-46
Small Copper	1976	47	63	27	2	-46*	-2
Brown Hairstreak	2004	19	15	12	70	-41*	-29
Purple Hairstreak	2002	21	15	18	-39	-57	-48
Green Hairstreak	1993	30	17	2	146	231**	-17
White-letter Hairstreak	N/A	N/A	0	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	9	N/A	N/A	N/A	N/A
Holly Blue	1999	24	43	10	24	14	150
Brown Argus	1997	26	19	15	-49	53	-14
Common Blue	1976	47	70	32	0	-30	-30

NORTHERN IRELAND Summary of changes table 2022. Summary of species abundance changes in Northern Ireland from 2021 to 2022 and long-term (over the entire time series; no. yrs max = 19) 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 2022, and blue text for those species that had their best year of the series in 2022.

Species	Start Year	No. years with Index in 2022	No. sites monitored in 2022	2022 rank	% change 2021-2022	Series trend (%)	10-year trend (%)
Dingy Skipper	N/A	N/A	2	N/A	N/A	N/A	N/A
Cryptic Wood White	2009	14	16	4	86	25	-18
Orange-tip	2007	16	33	8	67	-7	46
Large White	2006	17	44	16	-56	-58**	-51
Small White	2006	17	42	12	-19	-64**	-12
Green-veined White	2005	18	48	14	-19	-3	-62
Clouded Yellow	N/A	N/A	0	N/A	N/A	N/A	N/A
Wall	N/A	N/A	0	N/A	N/A	N/A	N/A
Speckled Wood	2007	16	47	5	-7	49	22
Large Heath	N/A	N/A	2	N/A	N/A	N/A	N/A
Small Heath	2004	19	21	12	-20	-38	34
Ringlet	2006	17	48	7	31	52	-47*
Meadow Brown	2009	14	48	10	0	-36*	-21
Grayling	N/A	N/A	1	N/A	N/A	N/A	N/A
Silver-washed Fritillary	N/A	N/A	5	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	6	N/A	N/A	N/A	N/A
Peacock	2006	17	45	8	-17	35	215
Small Tortoiseshell	2010	13	47	2	8	74	203
Marsh Fritillary	2004	19	14	12	-33	59	44
Small Copper	2005	18	33	15	-70	-48	57
Purple Hairstreak	N/A	N/A	0	N/A	N/A	N/A	N/A
Green Hairstreak	N/A	N/A	1	N/A	N/A	N/A	N/A
Holly Blue	N/A	N/A	6	N/A	N/A	N/A	N/A
Common Blue	2005	18	26	17	-42	-36	-64*