

Breeding success of raptors in Scotland in 2019

N.B. Data in the following tables present the data submitted to the SRMS in 2019. It is important to recognise that, for the majority of species, not all breeding pairs were monitored. Thus, the numbers in these tables do not represent entire populations or provide a complete picture of breeding productivity, at either regional or national scales. To explore trends through time we would recommend that you consult the national, regional or local trends available on the SRMS website.

In order to aid understanding of the data in the following tables descriptions of some of the main headings reported against are provided below:

Home ranges checked = this is the total number of home ranges that received a visit to check for occupancy. This figure excludes records where no young were produced but no indication was given as to whether the home range was occupied or not. The number of home ranges checked is therefore likely to be a minimum figure.

Home ranges occupied by pairs = this is the total number of home ranges that were found to be occupied by a pair.

Home ranges occupied by single birds = this is the total number of home ranges that were found to be occupied by a single bird.

Further home ranges in use = this is typically the total number of additional home ranges to those occupied by pairs. This figure always includes single birds and for some species also fresh signs.

Pairs monitored = this is the total number of home ranges occupied by pairs monitored. This figure includes all nests that were reported to have reached the large chick stage.

Pairs failing early or non-breeding = this is the total number of territories occupied by pairs which produced no fledglings and where no eggs are known to have been laid. This figure excludes records where it was not reported whether eggs were laid (i.e. eggs laid was reported as outcome unknown). The number of pairs failing early or non-breeding is therefore likely to be a minimum.

Pairs known to lay eggs = this is the total number of monitored pairs laying eggs.

Pairs known to hatch eggs = this is the total number of monitored pairs hatching eggs. This figure is only from monitored home ranges and therefore excludes data for sites that were not reported to have reached the large chick stage.

Pairs known to fledge young = this is the total number of pairs producing at least one fledgling. This figure includes pairs with young last seen at large chick stage.

Minimum number of young fledged = this is the total number of young fledged regionally or nationally. This figure includes pairs with young last seen at large chick stage.

Productivity = this is based exclusively on observed numbers of fledged young. Breeding attempts that were assumed to be successful (because they reached large chick stage and were not recorded to fail) but where number of fledged young was not recorded, do not contribute to estimates of productivity. In a few instances (mostly in regions where there were few monitored broods), this means that no data were available to derive estimates of productivity, despite there being one or more (assumed) successful breeding attempts. Productivity values for these situations are expressed as "0" (rather than as "-") or, for young fledged per successful pair, "0 (n=0)".

Raptor, owl and Raven nest site and home range data submitted under the Scottish Raptor Monitoring Scheme in 2019

Species	Argyll	Central Scotland	Dumfries & Galloway	Highland	Lewis & Harris	Lothian & Borders	North-east Scotland	Orkney	Shetland	South Strathclyde	Tayside	Uist	TOTAL
Osprey	26	40	18	66	-	13	26	-	-	4	59	-	252
Honey-buzzard	-	1	0	7	-	-	-	-	-	-	4	-	12
Golden Eagle	83	12	2	131	30	3	1	-	-	0	34	24	320
Sparrowhawk	25	18	1	6	0	12	2	30	7	15	16	6	138
Goshawk	0	9	40	17	-	40	2	-	-	7	19	-	134
Marsh Harrier	0	1	-	0	-	1	0	0	-	-	15	-	17
Hen Harrier	39	4	20	68	8	18	9	249	-	49	51	49	564
Red Kite	-	53	139	57	-	1	29	-	-	0	78	-	357
White-tailed Eagle	39	-	-	54	21	-	1	1	-	-	3	11	130
Buzzard	167	21	77	114	4	117	5	22	-	10	233	28	798
Barn Owl	111	172	250	40	-	90	0	-	-	14	13	-	690
Tawny Owl	70	111	60	46	-	59	0	-	-	0	15	-	361
Little Owl	-	-	-	-	-	5	-	-	-	-	-	-	5
Long-eared Owl	7	17	0	6	-	11	0	4	-	1	5	18	69
Short-eared Owl	11	10	0	1	-	13	0	133	0	5	37	24	234
Kestrel	31	35	14	19	1	55	0	44	-	19	60	21	299
Merlin	6	7	10	86	8	38	98	86	65	14	38	13	469
Hobby	-	-	1	0	-	0	-	-	-	-	7	-	8
Peregrine	34	30	100	106	1	143	43	35	7	66	93	6	664
Raven	90	64	74	32	13	52	0	4	25	41	96	48	539
TOTAL:	739	605	806	856	86	671	216	608	104	245	876	248	6060

Raptor, Owl and Raven breeding attempts monitored under the Scottish Raptor Monitoring Scheme in 2019

Species	Argyll	Central Scotland	Dumfries & Galloway	Highland	Lewis & Harris	Lothian & Borders	North-east Scotland	Orkney	Shetland	South Strathclyde	Tayside	Uist	TOTAL
Osprey	15	28	12	45	-	11	18	-	-	3	33	-	165
Honey-buzzard	-	0	0	1	-	-	-	-	-	-	1	-	2
Golden Eagle	67	9	2	96	26	0	1	-	-	0	23	17	241
Sparrowhawk	8	15	1	4	0	10	1	13	7	8	4	1	72
Goshawk	0	6	26	13	-	27	2	-	-	6	11	-	91
Marsh Harrier	0	1	-	0	-	0	0	0	-	-	8	-	9
Hen Harrier	12	3	9	29	7	6	9	98	-	8	20	17	218
Red Kite	-	25	78	41	-	1	14	-	-	0	44	-	203
White-tailed Eagle	33	-	-	50	19	-	1	1	-	-	2	7	113
Buzzard	39	13	49	81	3	101	3	15	-	5	120	11	440
Barn Owl	37	68	78	20	-	45	0	-	-	3	6	-	257
Tawny Owl	17	33	17	22	-	25	0	-	-	0	3	-	117
Little Owl	-	-	-	-	-	0	-	-	-	-	-	-	0
Long-eared Owl	1	1	0	2	-	4	0	0	-	0	1	2	11
Short-eared Owl	0	0	0	0	-	0	0	11	0	1	1	9	22
Kestrel	5	29	3	12	0	22	0	7	-	7	10	7	102
Merlin	0	0	7	25	4	13	37	10	35	4	9	5	149
Hobby	-	-	1	0	-	0	-	-	-	-	3	-	4
Peregrine	11	13	47	17	0	53	12	16	1	29	42	2	243
Raven	59	43	33	24	10	35	0	2	17	26	51	18	318
TOTAL:	304	287	363	482	69	353	98	173	60	100	392	96	2777

Breeding success of Osprey in Scotland in 2019

Region	Breeding sites checked	Breeding sites occupied by pairs	Breeding sites occupied by single birds	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	26	18	3	15	2	12	11	11	17	1.5 (n=11)	1.4	1.1
- Argyll Mainland	24	16	3	13	2	10	9	9	15	1.7 (n=9)	1.5	1.2
- Bute	2	2	0	2	0	2	2	2	2	1.0 (n=2)	1.0	1.0
Central Scotland	40	29	0	28	2	25	18	16	31	1.9 (n=16)	1.2	1.1
- Arrochar & Helensburgh	3	2	0	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- Dunbartonshire	4	4	0	4	0	4	4	3	5	1.7 (n=3)	1.2	1.2
- North Lanarkshire	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Stirling	32	22	0	22	2	19	12	11	21	1.9 (n=11)	1.1	1.0
Dumfries & Galloway	18	12	4	12	4	8	7	6	14	2.3 (n=6)	1.8	1.2
Highland	66	47	7	45	3	41	33	31	62	2.0 (n=31)	1.5	1.4
- Badenoch & Strathspey	1	1	0	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- Inverness-shire	11	10	1	10	1	8	5	5	9	1.8 (n=5)	1.1	0.9
- Lochaber	3	3	0	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
- Nairn	1	1	0	1	1	0	0	0	0	-	-	-
- Ross-shire	32	19	6	19	1	18	13	11	25	2.3 (n=11)	1.4	1.3
- Sutherland	18	13	0	12	0	12	12	12	22	1.8 (n=12)	1.8	1.8
Lothian & Borders	13	11	1	11	2	9	8	7	15	2.1 (n=7)	1.7	1.4
- Lothian	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Scottish Borders	12	10	1	10	2	8	7	6	13	2.2 (n=6)	1.6	1.3
North-east Scotland	26	18	1	18	0	18	14	14	24	1.7 (n=14)	1.3	1.3
- Aberdeenshire	25	18	1	18	0	18	14	14	24	1.7 (n=14)	1.3	1.3
- East Moray	1	0	0	0	0	0	0	0	0	-	-	-
South Strathclyde	4	3	0	3	0	3	3	3	4	1.3 (n=3)	1.3	1.3
- Ayrshire	3	3	0	3	0	3	3	3	4	1.3 (n=3)	1.3	1.3
- South Lanarkshire	1	0	0	0	0	0	0	0	0	-	-	-
Tayside	59	35	4	33	2	29	24	22	35	1.5 (n=21)	1.2	1.0
- Angus	10	7	1	6	0	6	6	4	6	1.5 (n=4)	1.0	1.0
- Fife	1	1	0	1	0	0	0	0	0	-	-	-
- Perth & Kinross	48	27	3	26	2	23	18	18	29	1.6 (n=17)	1.2	1.1
TOTAL:	252	173	20	165	15	145	118	110	202	1.8 (n=109)	1.4	1.2

Breeding success of Honey-buzzard in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Additional home ranges with single birds	Pair occupied home ranges monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Central Scotland	1	0	1	0	0	0	0	0	0	-	-	-
- Stirling	1	0	1	0	0	0	0	0	0	-	-	-
Highland	7	2	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Inverness-shire	5	1	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Ross-shire	2	1	0	0	0	0	0	0	0	-	-	-
Tayside	4	1	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Angus	2	0	0	0	0	0	0	0	0	-	-	-
- Perth & Kinross	2	1	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
TOTAL:	12	3	3	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5

Breeding success of Golden Eagle in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Of which immature pairs ¹	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	83	69	1	2	67	20	40	24	19	19	1.0 (n=19)	0.5	0.3
- Argyll Islands	45	34	0	2	32	9	22	13	12	12	1.0 (n=12)	0.5	0.4
- Argyll Mainland	37	35	1	0	35	11	18	11	7	7	1.0 (n=7)	0.4	0.2
- Bute	1	0	0	0	0	0	0	0	0	0	-	-	-
Central Scotland	12	10	1	1	9	1	6	3	2	2	1.0 (n=2)	0.3	0.2
- Arrochar & Helensburgh	2	0	0	1	0	0	0	0	0	0	-	-	-
- Stirling	10	10	1	0	9	1	6	3	2	2	1.0 (n=2)	0.3	0.2
Highland	131	118	7	2	96	17	69	53	47	55	1.2 (n=47)	0.8	0.6
- Badenoch & Strathspey	21	19	1	0	19	3	13	10	10	14	1.4 (n=10)	1.1	0.7
- Inverness-shire	17	12	0	2	10	3	7	5	5	6	1.2 (n=5)	0.9	0.6
- Isle of Skye	4	4	1	0	4	1	3	3	2	2	1.0 (n=2)	0.7	0.5
- Lochaber	24	23	2	0	18	4	10	7	5	6	1.2 (n=5)	0.6	0.3
- Nairn	1	1	1	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Ross-shire	31	27	0	0	24	3	21	16	14	15	1.1 (n=14)	0.7	0.6
- Small Isles	6	6	0	0	6	1	5	3	3	3	1.0 (n=3)	0.6	0.5
- Sutherland	27	26	2	0	14	2	9	8	7	8	1.1 (n=7)	0.9	0.6
Lewis & Harris	30	28	0	1	26	4	21	16	15	15	1.0 (n=15)	0.7	0.6
- Harris	8	8	0	0	8	0	8	7	7	7	1.0 (n=7)	0.9	0.9
- Lewis	22	20	0	1	18	4	13	9	8	8	1.0 (n=8)	0.6	0.4
Lothian & Borders	3	1	0	0	0	0	0	0	0	0	-	-	-
- Scottish Borders	3	1	0	0	0	0	0	0	0	0	-	-	-
North-east Scotland	1	1	0	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- East Moray	1	1	0	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
South-west Scotland	2	2	0	0	2	0	2	2	2	2	1.0 (n=2)	1.0	1.0

Breeding success of Golden Eagle in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Of which immature pairs ¹	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Tayside	34	26	3	1	23	5	12	12	12	17	1.4 (n=12)	1.4	0.7
- Angus	4	4	0	0	4	0	2	2	2	4	2.0 (n=2)	2.0	1.0
- Perth & Kinross	30	22	3	1	19	5	10	10	10	13	1.3 (n=10)	1.3	0.7
Uist	24	21	0	1	17	4	11	8	6	6	1.0 (n=6)	0.5	0.4
- Barra	3	3	0	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Benbecula	2	2	0	0	2	1	0	0	0	0	-	-	-
- North Uist	9	6	0	1	5	1	4	2	2	2	1.0 (n=2)	0.5	0.4
- South Uist	10	10	0	0	9	2	6	5	3	3	1.0 (n=3)	0.5	0.3
TOTAL:	320	276	12	8	241	51	162	119	104	117	1.1 (n=104)	0.7	0.5

¹These immature pairs are included in the column 'Home ranges occupied by pairs'. Pairs consisting of either one or two birds with immature plumage are treated as immature pairs.

Breeding success of Sparrowhawk in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	25	12	8	0	8	7	7	16	2.3 (n=7)	2.0	2.0
- Argyll Islands	7	3	0	0	0	0	0	0	-	-	-
- Argyll Mainland	14	6	6	0	6	5	5	11	2.2 (n=5)	1.8	1.8
- Bute	4	3	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
Central Scotland	18	17	15	0	15	15	15	64	4.3 (n=15)	4.3	4.3
- Clackmannanshire	1	0	0	0	0	0	0	0	-	-	-
- North Lanarkshire	7	7	7	0	7	7	7	27	3.9 (n=7)	3.9	3.9
- Stirling	10	10	8	0	8	8	8	37	4.6 (n=8)	4.6	4.6
Dumfries & Galloway	1	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
Highland	6	4	4	0	4	4	4	8	2.0 (n=4)	2.0	2.0
- Inverness-shire	3	2	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
- Ross-shire	2	2	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
- West Moray	1	0	0	0	0	0	0	0	-	-	-
Lothian & Borders	12	10	10	0	10	10	10	32	3.1 (n=9)	3.1	3.1
- Lothian	10	8	8	0	8	8	8	26	3.2 (n=8)	3.2	3.2
- Scottish Borders	2	2	2	0	2	2	2	6	2.5 (n=1)	2.5	2.5
North-east Scotland	2	2	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Aberdeenshire	2	2	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
Orkney	30	13	13	4	9	8	5	8	1.6 (n=5)	0.9	0.6
- Hoy	11	2	2	1	1	1	1	2	2.0 (n=1)	2.0	1.0
- Mainland	16	9	9	3	6	5	3	4	1.3 (n=3)	0.7	0.4
- Rousay	1	1	1	0	1	1	0	0	-	-	-
- South Ronaldsay	2	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
Shetland	7	7	7	0	6	6	6	12	2.0 (n=6)	2.0	1.7
- Mainland	7	7	7	0	6	6	6	12	2.0 (n=6)	2.0	1.7
South Strathclyde	15	8	8	0	8	8	8	19	2.4 (n=8)	2.4	2.4
- Arran & Cumbrae	14	7	7	0	7	7	7	16	2.3 (n=7)	2.3	2.3
- Ayrshire	1	1	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0

Breeding success of Sparrowhawk in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Tayside	16	7	4	0	4	4	4	13	3.2 (n=4)	3.2	3.2
- Angus	10	4	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- Fife	6	3	3	0	3	3	3	10	3.3 (n=3)	3.3	3.3
Uist	6	2	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- North Uist	4	1	0	0	0	0	0	0	-	-	-
- South Uist	2	1	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
TOTAL:	138	83	72	4	67	65	62	178	2.9 (n=61)	2.7	2.5

Breeding success of Goshawk in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Central Scotland	9	7	0	6	1	5	3	3	4	1.3 (n=3)	0.8	0.7
- Clackmannanshire	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Stirling	8	6	0	5	1	4	2	2	2	1.0 (n=2)	0.5	0.4
Dumfries & Galloway	40	26	5	26	1	25	19	16	31	1.9 (n=16)	1.2	1.2
Highland	17	14	0	13	0	13	12	12	30	2.5 (n=12)	2.3	2.3
- Badenoch & Strathspey	9	7	0	7	0	7	7	7	20	2.9 (n=7)	2.9	2.9
- Inverness-shire	4	4	0	3	0	3	2	2	5	2.5 (n=2)	1.7	1.7
- Nairn	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- West Moray	3	2	0	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
Lothian & Borders	40	36	3	27	0	27	24	21	34	1.6 (n=21)	1.3	1.3
- Scottish Borders	40	36	3	27	0	27	24	21	34	1.6 (n=21)	1.3	1.3
North-east Scotland	2	2	0	2	0	2	2	2	4	2.0 (n=2)	2.0	2.0
- East Moray	2	2	0	2	0	2	2	2	4	2.0 (n=2)	2.0	2.0
South Strathclyde	7	6	1	6	1	4	3	2	2	1.0 (n=2)	0.5	0.3
- Arran & Cumbrae	1	1	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Ayrshire	5	5	0	5	1	3	2	1	1	1.0 (n=1)	0.3	0.2
- South Lanarkshire	1	0	1	0	0	0	0	0	0	-	-	-
Tayside	19	14	2	11	0	11	10	10	19	1.9 (n=10)	1.7	1.7
- Angus	5	4	1	4	0	4	4	4	10	2.5 (n=4)	2.5	2.5
- Fife	3	0	1	0	0	0	0	0	0	-	-	-
- Perth & Kinross	11	10	0	7	0	7	6	6	9	1.5 (n=6)	1.3	1.3
TOTAL:	134	105	11	91	3	87	73	66	124	1.9 (n=66)	1.4	1.4

Breeding success of Marsh Harrier in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Additional home ranges with single birds	Pair occupied home ranges monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Central Scotland	1	1	0	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- Clackmannanshire	1	1	0	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
Lothian & Borders	1	0	1	0	0	0	0	0	0	-	-	-
- Scottish Borders	1	0	1	0	0	0	0	0	0	-	-	-
Tayside	15	9	1	8	0	8	8	7	19	2.7 (n=7)	2.4	2.4
- Angus	3	2	0	2	0	2	2	2	6	3.0 (n=2)	3.0	3.0
- Fife	2	0	0	0	0	0	0	0	0	-	-	-
- Perth & Kinross	10	7	1	6	0	6	6	5	13	2.6 (n=5)	2.2	2.2
TOTAL:	17	10	2	9	0	9	9	8	22	2.8 (n=8)	2.4	2.4

Breeding success of Hen Harrier in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied by single birds	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	39	18	2	12	1	11	10	9	17	1.9 (n=9)	1.5	1.4
- Argyll Islands	18	9	1	3	0	3	3	3	8	2.7 (n=3)	2.7	2.7
- Argyll Mainland	21	9	1	9	1	8	7	6	9	1.5 (n=6)	1.1	1.0
Central Scotland	4	3	1	3	0	2	1	1	1	1.0 (n=1)	0.5	0.3
- Arrochar & Helensburgh	4	3	1	3	0	2	1	1	1	1.0 (n=1)	0.5	0.3
Dumfries & Galloway	20	9	1	9	2	6	4	4	18	4.5 (n=4)	3.0	2.0
Highland	68	32	4	29	2	27	19	14	34	2.4 (n=14)	1.3	1.2
- Badenoch & Strathspey	8	3	0	3	0	3	2	2	5	2.5 (n=2)	1.7	1.7
- Caithness	2	2	0	2	0	2	2	2	4	2.0 (n=2)	2.0	2
- Inverness-shire	13	4	2	3	2	1	1	1	4	4.0 (n=1)	4.0	1.3
- Isle of Skye	13	8	0	8	0	8	8	3	7	2.3 (n=3)	0.9	0.9
- Lochaber	2	0	0	0	0	0	0	0	0	-	-	-
- Nairn	3	0	1	0	0	0	0	0	0	-	-	-
- Ross-shire	5	2	0	2	0	2	2	2	6	3.0 (n=2)	3.0	3
- Small Isles	4	4	0	3	0	3	3	3	6	2.0 (n=3)	2.0	3
- Sutherland	9	8	0	7	0	7	1	1	2	2.0 (n=1)	0.3	0.3
- West Moray	9	1	1	1	0	1	0	0	0	-	-	-
Lewis & Harris	8	8	0	7	0	7	3	1	4	4.0 (n=1)	0.6	0.6
- Lewis	8	8	0	7	0	7	3	1	4	4.0 (n=1)	0.6	0.6
Lothian & Borders	18	7	2	6	0	6	6	4	12	3.0 (n=4)	2.0	2
- Scottish Borders	18	7	2	6	0	6	6	4	12	3.0 (n=4)	2.0	2
North-east Scotland	9	9	0	9	0	9	8	8	18	2.2 (n=8)	2.0	2
- Aberdeenshire	2	2	0	2	0	2	2	2	6	3.0 (n=2)	3.0	3
- East Moray	7	7	0	7	0	7	6	6	12	2.0 (n=6)	1.7	1.7
Orkney	249	98	22	98	56	42	32	19	40	2.1 (n=19)	1.0	0.4
- Eday	5	4	0	4	0	4	3	2	5	2.5 (n=2)	1.2	
- Hoy	44	23	1	23	11	12	8	7	17	2.4 (n=7)	1.4	
- Mainland	177	65	16	65	42	23	18	8	13	1.6 (n=8)	0.6	
- Rousay	23	6	5	6	3	3	3	2	5	2.5 (n=2)	1.7	

Breeding success of Hen Harrier in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied by single birds	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
South Strathclyde	49	8	1	8	2	6	3	2	7	3.5 (n=2)	1.2	0.9
- Ayrshire	17	0	0	0	0	0	0	0	0	-	-	-
- Inverclyde	13	0	0	0	0	0	0	0	0	-	-	-
- Renfrewshire	8	0	1	0	0	0	0	0	0	-	-	-
- South Lanarkshire	11	8	0	8	2	6	3	2	7	3.5 (n=2)	1.2	0.9
Tayside	51	21	6	20	4	13	6	4	12	3.0 (n=4)	0.9	0.6
- Angus	9	2	0	2	0	2	0	0	0	-	-	-
- Perth & Kinross	42	19	6	18	4	11	6	4	12	3.0 (n=4)	1.1	0.7
Uist	49	28	12	17	0	17	16	15	39	2.7 (n=14)	2.4	2.4
- Benbecula	3	2	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- North Uist	20	10	9	4	0	4	4	4	12	3.0 (n=4)	3.0	3.0
- South Uist	26	16	2	12	0	12	11	10	26	2.5 (n=9)	2.1	2.1
TOTAL:	564	241	51	218	67	146	108	81	202	2.5 (n=80)	1.4	0.9

Breeding success of Red Kite in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Central Scotland	53	30	25	2	23	19	15	23	1.5 (n=14)	1.0	0.9
- Stirling	53	30	25	2	23	19	15	23	1.5 (n=14)	1.0	0.9
Dumfries & Galloway	139	119	78	2	76	64	59	79	1.3 (n=59)	1.0	1.0
Highland	57	42	41	0	41	40	38	72	1.9 (n=38)	1.8	1.8
- Badenoch & Strathspey	1	1	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
- Inverness-shire	12	9	9	0	9	9	9	18	2.0 (n=9)	2.0	2.0
- Ross-shire	41	30	29	0	29	28	26	46	1.8 (n=26)	1.6	1.6
- Sutherland	3	2	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
Lothian & Borders	1	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Unknown	1	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
North-east Scotland	29	21	14	1	13	12	12	21	1.8 (n=12)	1.6	1.5
- Aberdeenshire	29	21	14	1	13	12	12	21	1.8 (n=12)	1.6	1.5
Tayside	78	49	44	0	43	36	33	59	1.8 (n=32)	1.3	1.3
- Angus	18	11	10	0	9	8	8	12	1.5 (n=8)	1.3	1.2
- Perth & Kinross	60	38	34	0	34	28	25	47	1.8 (n=24)	1.4	1.4
TOTAL:	357	262	203	5	197	172	158	255	1.6 (n=156)	1.3	1.3

Breeding success of White-tailed Eagle in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	39	36	33	30	23	21	26	1.2 (n=21)	0.9	0.8
- Argyll Islands	30	29	28	26	21	20	25	1.2 (n=20)	1.0	0.9
- Argyll Mainland	9	7	5	4	2	1	1	1.0 (n=1)	0.2	0.2
Highland	54	53	50	44	36	32	47	1.4 (n=31)	1.0	0.9
- Badenoch & Strathspey	1	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
- Inverness-shire	1	1	1	1	1	1	1	1.0 (n=1)	1.0	1.0
- Isle of Skye	23	22	20	18	15	13	19	1.5 (n=13)	1.1	0.9
- Lochaber	11	11	10	9	7	6	7	1.0 (n=5)	0.7	0.6
- Ross-shire	9	9	9	7	6	5	9	1.8 (n=5)	1.3	1.0
- Small Isles	4	4	4	4	3	3	5	1.7 (n=3)	1.2	1.2
- Sutherland	5	5	5	4	3	3	4	1.3 (n=3)	1.0	0.8
Lewis & Harris	21	21	19	14	11	10	14	1.4 (n=10)	1.0	0.7
- Harris	3	3	2	1	1	1	1	1.0 (n=1)	1.0	0.5
- Lewis	18	18	17	13	10	9	13	1.4 (n=9)	1.0	0.8
North-east Scotland	1	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
- Aberdeenshire	1	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
Orkney	1	1	1	1	1	1	1	1.0 (n=1)	1.0	1.0
- Hoy	1	1	1	1	1	1	1	1.0 (n=1)	1.0	1.0
Tayside	3	2	2	0	0	0	0	-	-	-
- Angus	1	1	1	0	0	0	0	-	-	-
- Fife	1	0	0	0	0	0	0	-	-	-
- Perth & Kinross	1	1	1	0	0	0	0	-	-	-
Uist	11	9	7	7	7	7	12	1.7 (n=7)	1.7	1.7
- Barra	1	1	0	0	0	0	0	-	-	-
- Benbecula	1	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
- North Uist	6	6	5	5	5	5	8	1.6 (n=5)	1.6	1.6
- South Uist	3	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
TOTAL:	130	123	113	97	79	72	102	1.4 (n=71)	1.1	0.9

Breeding success of Buzzard in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied by single birds	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	167	65	6	39	1	36	34	33	46	1.4 (n=33)	1.3	1.2
- Argyll Islands	90	33	1	14	0	12	10	9	16	1.8 (n=9)	1.3	1.1
- Argyll Mainland	23	13	0	11	1	10	10	10	11	1.1 (n=10)	1.1	1.0
- Bute	54	19	5	14	0	14	14	14	19	1.4 (n=14)	1.4	1.4
Central Scotland	21	15	3	13	0	10	10	9	16	1.8 (n=9)	1.6	1.2
- Clackmannanshire	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Dunbartonshire	1	0	1	0	0	0	0	0	0	-	-	-
- Glasgow	2	1	1	0	0	0	0	0	0	-	-	-
- Stirling	17	13	1	12	0	9	9	8	14	1.8 (n=8)	1.6	1.2
Dumfries & Galloway	77	60	3	49	3	44	43	40	57	1.1 (n=29)	1.0	0.9
Highland	114	85	6	81	10	68	50	46	69	1.5 (n=45)	1.0	0.8
- Badenoch & Strathspey	8	8	0	8	1	7	6	6	9	1.5 (n=6)	1.3	1.1
- Inverness-shire	10	9	1	8	0	6	6	5	5	0.8 (n=4)	0.7	0.5
- Nairn	1	0	0	0	0	0	0	0	0	-	-	-
- Ross-shire	78	55	1	54	9	45	29	26	37	1.4 (n=26)	0.8	0.7
- Small Isles	5	5	0	5	0	5	5	5	9	1.8 (n=5)	1.8	1.8
- Sutherland	12	8	4	6	0	5	4	4	9	2.2 (n=4)	1.8	1.5
Lewis & Harris	4	3	1	3	0	3	2	2	3	1.5 (n=2)	1.0	1.0
- Lewis	4	3	1	3	0	3	2	2	3	1.5 (n=2)	1.0	1.0
Lothian & Borders	117	106	1	101	7	85	82	79	143	1.6 (n=63)	1.5	1.3
- Lothian	37	34	0	34	0	34	34	32	73	2.2 (n=30)	2.1	2.1
- Scottish Borders	80	72	1	67	7	51	48	47	70	1.2 (n=33)	1.1	0.8
North-east Scotland	5	4	0	3	0	3	3	3	3	1.0 (n=3)	1.0	1.0
- Aberdeenshire	5	4	0	3	0	3	3	3	3	1.0 (n=3)	1.0	1.0

Breeding success of Buzzard in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied by single birds	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Orkney	22	15	3	15	5	10	9	8	17	2.1 (n=8)	1.7	1.1
- Eday	4	4	0	4	1	3	3	2	7	3.5 (n=2)	2.3	1.8
- Hoy	6	1	2	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Mainland	9	7	1	7	3	4	3	3	7	2.3 (n=3)	1.8	1.0
- Rousay	3	3	0	3	1	2	2	2	2	1.0 (n=2)	1.0	0.7
South Strathclyde	10	6	0	5	0	5	5	5	6	1.2 (n=5)	1.2	1.2
- Arran & Cumbrae	7	3	0	3	0	3	3	3	4	1.3 (n=3)	1.3	1.3
- Ayrshire	3	3	0	2	0	2	2	2	2	1.0 (n=2)	1.0	1.0
Tayside	233	157	6	120	1	110	108	106	121	1.1 (n=106)	1.1	1.0
- Angus	93	87	3	67	0	61	61	59	60	1.0 (n=59)	1.0	0.9
- Fife	37	23	3	20	1	19	18	18	23	1.3 (n=18)	1.2	1.1
- Perth & Kinross	103	47	0	33	0	30	29	29	38	1.3 (n=29)	1.3	1.2
Uist	28	22	5	11	0	11	10	8	14	1.6 (n=7)	1.2	1.2
- Benbecula	2	2	0	1	0	1	1	1	1	0.0 (n=0)	0.0	0.0
- North Uist	17	11	5	3	0	3	3	2	3	1.5 (n=2)	1.0	1.0
- South Uist	9	9	0	7	0	7	6	5	10	2.0 (n=5)	1.4	1.4
TOTAL:	798	538	34	440	27	385	356	339	495	1.5 (n=310)	1.3	1.2

Breeding success of Barn Owl in Scotland in 2019

Region	Nest sites checked	Nest sites occupied by pairs	Nest sites occupied by single birds	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	111	39	6	37	7	28	25	24	66	2.8 (n=24)	2.4	1.8
- Argyll Islands	8	4	0	3	0	3	3	3	7	2.3 (n=3)	2.3	2.3
- Argyll Mainland	101	35	6	34	7	25	22	21	59	2.8 (n=21)	2.4	1.7
- Bute	2	0	0	0	0	0	0	0	0	-	-	-
Central Scotland	172	72	8	68	6	62	58	58	156	2.7 (n=58)	2.5	2.3
- Clackmannanshire	8	8	0	8	0	8	8	8	30	3.8 (n=8)	3.8	3.8
- Dunbartonshire	13	4	1	4	0	4	4	4	9	2.2 (n=4)	2.2	2.2
- North Lanarkshire	15	12	2	11	0	11	10	10	10	1.0 (n=10)	0.9	0.9
- Stirling	19	13	1	13	1	12	11	11	33	3.0 (n=11)	2.8	2.5
Dumfries & Galloway	117	35	4	32	5	27	25	25	74	3.0 (n=25)	2.7	2.3
Highland	40	23	5	20	0	20	16	16	43	2.7 (n=16)	2.1	2.1
- Badenoch & Strathspey	5	4	0	4	0	4	2	2	6	3.0 (n=2)	1.5	1.5
- Caithness	5	4	0	4	0	4	4	4	13	3.2 (n=4)	3.2	3.2
- Inverness-shire	7	1	2	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Ross-shire	15	8	2	7	0	7	5	5	12	2.4 (n=5)	1.7	1.7
- Sutherland	8	6	1	4	0	4	4	4	10	2.5 (n=4)	2.5	2.5
Lothian & Borders	90	48	4	45	3	42	39	38	105	2.8 (n=38)	2.5	2.3
- Lothian	7	2	0	2	0	2	2	1	1	1.0 (n=1)	0.5	0.5
- Scottish Borders	83	46	4	43	3	40	37	37	104	2.8 (n=37)	2.6	2.4
South Strathclyde	14	3	1	3	0	2	2	2	7	3.5 (n=2)	3.5	2.3
- Ayrshire	12	3	1	3	0	2	2	2	7	3.5 (n=2)	3.5	2.3
- South Lanarkshire	2	0	0	0	0	0	0	0	0	-	-	-
Tayside	13	9	0	6	0	6	6	6	13	2.2 (n=6)	2.2	2.2
- Fife	2	2	0	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
- Perth & Kinross	11	7	0	4	0	4	4	4	10	2.5 (n=4)	2.5	2.5
TOTAL:	690	278	49	257	19	233	212	208	584	2.8 (n=208)	2.5	2.3

Breeding success of Tawny Owl in Scotland in 2019

Region	Nest sites checked	Nest sites occupied by pairs	Pairs monitored	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	70	20	17	17	14	14	20	1.4 (n=14)	1.2	1.2
- Argyll Islands	1	0	0	0	0	0	0	-	-	-
- Argyll Mainland	67	20	17	17	14	14	20	1.4 (n=14)	1.2	1.2
- Bute	2	0	0	0	0	0	0	-	-	-
Central Scotland	111	34	33	33	27	24	46	1.9 (n=24)	1.4	1.4
- Dunbartonshire	1	1	1	1	1	1	2	2.0 (n=1)	2.0	2.0
- North Lanarkshire	11	8	7	7	4	4	10	2.5 (n=4)	1.4	1.4
- Stirling	99	25	25	25	22	19	34	1.8 (n=19)	1.4	1.4
Dumfries & Galloway	60	19	17	17	16	15	22	1.5 (n=15)	1.3	1.3
Highland	46	22	22	22	18	17	28	1.6 (n=17)	1.3	1.3
- Badenoch & Strathspey	1	1	1	1	1	1	1	1.0 (n=1)	1.0	1.0
- Inverness-shire	5	3	3	3	2	2	5	2.5 (n=2)	1.7	1.7
- Ross-shire	40	18	18	18	15	14	22	1.6 (n=14)	1.2	1.2
Lothian & Borders	59	26	25	24	22	21	35	1.7 (n=21)	1.5	1.4
- Lothian	11	5	5	5	5	5	9	1.8 (n=5)	1.8	1.8
- Scottish Borders	48	21	20	19	17	16	26	1.6 (n=16)	1.4	1.3
Tayside	15	5	3	3	3	3	5	1.7 (n=3)	1.7	1.7
- Fife	1	1	0	0	0	0	0	-	-	-
- Perth & Kinross	14	4	3	3	3	3	5	1.7 (n=3)	1.7	1.7
TOTAL:	361	126	117	116	100	94	156	1.7 (n=94)	1.3	1.3

Breeding success of Little Owl in Scotland in 2019

Region	Nest sites checked	Nest sites occupied by pairs	Nest sites occupied by single birds	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Lothian & Borders	5	0	4	0	0	0	0	0	0	-	-	-
- Scottish Borders	5	0	4	0	0	0	0	0	0	-	-	-
TOTAL:	5	0	4	0	0	0	0	0	0	-	-	-

Breeding success of Long-Eared Owl in Scotland in 2019

Region	Known territories checked for occupation	Pairs found	Pairs monitored	Pairs known to lay eggs	Pairs known to fledge young	Minimum number of fledged young	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	7	1	1	1	1	4	4.0 (n=1)	4.0	4.0
- Argyll Islands	7	1	1	1	1	4	4.0 (n=1)	4.0	4.0
Central Scotland	17	2	1	1	1	3	3.0 (n=1)	3.0	3.0
- Arrochar & Helensburgh	6	1	0	0	0	0	-	-	-
- Stirling	11	1	1	1	1	3	3.0 (n=1)	3.0	3.0
Highland	6	3	2	2	2	7	3.5 (n=2)	3.5	3.5
- Badenoch & Strathspey	1	0	0	0	0	0	-	-	-
- Ross-shire	1	0	0	0	0	0	-	-	-
- Small Isles	2	2	2	2	2	7	3.5 (n=2)	3.5	3.5
- West Moray	2	1	0	0	0	0	-	-	-
Lothian & Borders	11	4	4	4	3	8	2.7 (n=3)	2.0	2.0
- Lothian	6	2	2	2	2	6	3.0 (n=2)	3.0	3.0
- Scottish Borders	5	2	2	2	1	2	2.0 (n=1)	1.0	1.0
Orkney	4	0	0	0	0	0	-	-	-
- Hoy	1	0	0	0	0	0	-	-	-
- Mainland	3	0	0	0	0	0	-	-	-
South Strathclyde	1	0	0	0	0	0	-	-	-
- Ayrshire	1	0	0	0	0	0	-	-	-
Tayside	5	1	1	1	1	1	1.0 (n=1)	1.0	1.0
- Angus	2	0	0	0	0	0	-	-	-
- Perth & Kinross	3	1	1	1	1	1	1.0 (n=1)	1.0	1.0
Uist	18	4	2	2	2	3	1.5 (n=2)	1.5	1.5
- North Uist	17	3	1	1	1	2	2.0 (n=1)	2.0	2.0
- South Uist	1	1	1	1	1	1	1.0 (n=1)	1.0	1.0
TOTAL:	69	15	11	11	10	26	2.6 (n=10)	2.4	2.4

Breeding success of Short-eared Owl in Scotland in 2019

Region	Sites checked	Pairs found	Additional single birds recorded	Pairs monitored	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	11	1	1	0	0	0	0	0	-	-	-
- Argyll Islands	6	1	0	0	0	0	0	0	-	-	-
- Argyll Mainland	5	0	1	0	0	0	0	0	-	-	-
Central Scotland	10	0	1	0	0	0	0	0	-	-	-
- Arrochar & Helensburgh	3	0	1	0	0	0	0	0	-	-	-
- Stirling	7	0	0	0	0	0	0	0	-	-	-
Highland	1	1	0	0	0	0	0	0	-	-	-
- Caithness	1	1	0	0	0	0	0	0	-	-	-
Lothian & Borders	13	1	2	0	0	0	0	0	-	-	-
- Lothian	1	0	0	0	0	0	0	0	-	-	-
- Scottish Borders	12	1	2	0	0	0	0	0	-	-	-
Orkney	133	11	30	11	4	4	3	4	1.3 (n=3)	1.0	0.4
- Eday	11	3	8	3	2	2	1	1	1.0 (n=1)	0.5	0.3
- Hoy	13	4	4	4	1	1	1	2	2.0 (n=1)	2.0	0.5
- Mainland	99	2	13	2	0	0	0	0	-	-	-
- Rousay	10	2	5	2	1	1	1	1	1.0 (n=1)	1.0	0.5
South Strathclyde	5	1	0	1	0	0	0	0	-	-	-
- Ayrshire	4	0	0	0	0	0	0	0	-	-	-
- South Lanarkshire	1	1	0	1	0	0	0	0	-	-	-
Tayside	37	2	2	1	0	0	0	0	-	-	-
- Angus	10	0	0	0	0	0	0	0	-	-	-
- Perth & Kinross	27	2	2	1	0	0	0	0	-	-	-
Uist	24	11	13	9	9	9	9	15	1.7 (n=9)	1.7	1.7
- Benbecula	2	1	1	0	0	0	0	0	-	-	-
- North Uist	17	5	12	4	4	4	4	6	1.5 (n=4)	1.5	1.5
- South Uist	5	5	0	5	5	5	5	9	1.8 (n=5)	1.8	1.8
TOTAL:	234	28	49	22	13	13	12	19	1.6 (n=12)	1.5	0.9

Breeding success of Kestrel in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	31	5	5	0	3	3	3	6	2.0 (n=3)	2.0	1.2
- Argyll Islands	7	0	0	0	0	0	0	0	-	-	-
- Argyll Mainland	20	4	4	0	3	3	3	6	2.0 (n=3)	2.0	1.5
- Bute	4	1	1	0	0	0	0	0	-	-	-
Central Scotland	35	32	29	0	29	29	29	119	4.1 (n=29)	4.1	4.1
- Dunbartonshire	4	4	4	0	4	4	4	19	4.8 (n=4)	4.8	4.8
- Falkirk	1	1	1	0	1	1	1	4	4.0 (n=1)	4.0	4.0
- Glasgow	1	1	1	0	1	1	1	5	5.0 (n=1)	5.0	5.0
- North Lanarkshire	23	21	18	0	18	18	18	68	3.8 (n=18)	3.8	3.8
- Stirling	6	5	5	0	5	5	5	23	4.6 (n=5)	4.6	4.6
Dumfries & Galloway	14	5	3	0	3	3	3	14	4.7 (n=3)	4.7	4.7
Highland	19	16	12	1	11	9	8	19	2.4 (n=8)	1.7	1.6
- Inverness-shire	8	6	5	1	4	4	4	13	3.2 (n=4)	3.2	2.6
- Lochaber	1	1	0	0	0	0	0	0	-	-	-
- Ross-shire	7	6	4	0	4	2	1	1	1.0 (n=1)	0.2	0.2
- Small Isles	2	2	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
- West Moray	1	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
Lewis & Harris	1	1	0	0	0	0	0	0	-	-	-
- Lewis	1	1	0	0	0	0	0	0	-	-	-
Lothian & Borders	55	22	22	1	20	17	17	79	4.6 (n=17)	4.0	3.6
- Lothian	26	10	10	0	10	8	8	38	4.8 (n=8)	3.8	3.8
- Scottish Borders	29	12	12	1	10	9	9	41	4.6 (n=9)	4.1	3.4
Orkney	44	7	7	3	4	4	1	1	1.0 (n=1)	0.2	0.1
- Eday	1	0	0	0	0	0	0	0	-	-	-
- Hoy	5	1	1	1	0	0	0	0	-	-	-
- Mainland	35	4	4	1	3	3	1	1	1.0 (n=1)	0.3	0.2
- Rousay	3	2	2	1	1	1	0	0	-	-	-
South Strathclyde	19	10	7	0	7	7	7	23	3.3 (n=7)	3.3	3.3
- Ayrshire	17	9	6	0	6	6	6	21	3.5 (n=6)	3.5	3.5
- Renfrewshire	2	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0

Breeding success of Kestrel in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Tayside	60	25	10	1	9	9	9	21	1.9 (n=5)	1.9	1.7
- Angus	31	8	4	0	4	4	4	7	1.2 (n=2)	1.2	1.2
- Fife	9	5	3	1	2	2	2	9	4.5 (n=2)	4.5	3.0
- Perth & Kinross	20	12	3	0	3	3	3	5	1.0 (n=1)	1.0	1.0
Uist	21	12	7	0	7	7	7	21	3.0 (n=7)	3.0	3.0
- Benbecula	2	0	0	0	0	0	0	0	-	-	-
- North Uist	11	5	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
- South Uist	8	7	5	0	5	5	5	16	3.2 (n=5)	3.2	3.2
TOTAL:	299	135	102	6	93	88	84	303	3.7 (n=80)	3.4	3.1

Breeding success of Merlin in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied (pairs, singles or fresh signs)	Pairs monitored	Failed early on non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	6	1	2	0	0	0	0	0	0	-	-	-
- Argyll Islands	3	0	1	0	0	0	0	0	0	-	-	-
- Argyll Mainland	3	1	1	0	0	0	0	0	0	-	-	-
Central Scotland	7	0	1	0	0	0	0	0	0	-	-	-
- Arrochar & Helensburgh	1	0	1	0	0	0	0	0	0	-	-	-
- Dunbartonshire	1	0	0	0	0	0	0	0	0	-	-	-
- Stirling	5	0	0	0	0	0	0	0	0	-	-	-
Dumfries & Galloway	10	8	0	7	0	7	3	2	7	3.5 (n=2)	1	1
Highland	76	32	13	22	1	21	20	16	39	2.4 (n=15)	1.8	1.7
- Badenoch & Strathspey	19	4	3	4	0	4	4	4	10	2.5 (n=4)	2.5	2.5
- Caithness	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2	2
- Inverness-shire	2	1	0	1	0	1	1	1	2	2.0 (n=1)	2	2
- Lochaber	4	1	3	1	0	1	1	1	4	4.0 (n=1)	4	4
- Nairn	7	3	0	3	1	2	2	1	3	3.0 (n=1)	1.5	1
- Ross-shire	2	1	0	1	0	1	1	1	4	4.0 (n=1)	4	4
- Small Isles	3	1	1	1	0	1	1	1	1	0.0 (n=0)	0	0
- Sutherland	26	18	6	8	0	8	7	5	12	2.4 (n=5)	1.5	1.5
- West Moray	12	2	0	2	0	2	2	1	1	1.0 (n=1)	0.5	0.5
Lewis & Harris	8	8	0	4	0	4	4	3	9	3.0 (n=3)	2.2	2.2
- Harris	3	3	0	0	0	0	0	0	0	-	-	-
- Lewis	5	5	0	4	0	4	4	3	9	3.0 (n=3)	2.2	2.2
Lothian & Borders	37	12	4	12	1	10	6	6	20	3.3 (n=6)	2	1.7
- Lothian	9	3	0	3	1	2	2	2	6	3.0 (n=2)	3	2
- Scottish Borders	28	9	4	9	0	8	4	4	14	3.5 (n=4)	1.8	1.6
North-east Scotland	98	37	3	37	0	32	30	28	79	2.8 (n=28)	2.5	2.1
- Aberdeenshire	73	32	2	32	0	27	25	23	64	2.8 (n=23)	2.4	2
- East Moray	25	5	1	5	0	5	5	5	15	3.0 (n=5)	3	3

Breeding success of Merlin in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Home ranges occupied (pairs, singles or fresh signs)	Pairs monitored	Failed early on non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Orkney	86	10	3	10	6	4	4	2	2	1.0 (n=2)	0.5	0.2
- Eday	2	0	0	0	0	0	0	0	0	-	-	-
- Hoy	34	5	0	5	4	1	1	1	1	1.0 (n=1)	1.0	0.2
- Mainland	46	4	3	4	2	2	2	1	1	1.0 (n=1)	0.5	0.2
- Rousay	4	1	0	1	0	1	1	0	0	-	-	-
Shetland	65	36	0	35	1	33	28	27	92	3.4 (n=27)	2.8	2.6
- Bressay	1	0	0	0	0	0	0	0	0	-	-	-
- Fetlar	1	1	0	1	0	1	1	1	4	4.0 (n=1)	4.0	4.0
- Mainland	48	29	0	28	1	26	21	20	65	3.2 (n=20)	2.5	2.3
- Muckle Roe	3	2	0	2	0	2	2	2	8	4.0 (n=2)	4.0	4.0
- Unst	5	2	0	2	0	2	2	2	8	4.0 (n=2)	4.0	4.0
- Yell	7	2	0	2	0	2	2	2	7	3.5 (n=2)	3.5	3.5
South Strathclyde	14	5	0	4	2	2	2	2	7	3.5 (n=2)	3.5	1.8
- Ayrshire	2	1	0	0	0	0	0	0	0	-	-	-
- South Lanarkshire	12	4	0	4	2	2	2	2	7	3.5 (n=2)	3.5	1.8
Tayside	38	14	9	9	0	8	8	7	16	2.1 (n=6)	1.9	1.7
- Angus	7	4	1	3	0	3	3	3	7	2.3 (n=3)	2.3	2.3
- Perth & Kinross	31	10	8	6	0	5	5	4	9	2.0 (n=3)	1.6	1.3
Uist	13	9	4	5	0	4	4	4	11	2.8 (n=4)	2.8	2.2
- North Uist	5	2	3	0	0	0	0	0	0	-	-	-
- South Uist	8	7	1	5	0	4	4	4	11	2.8 (n=4)	2.8	2.2
TOTAL:	469	177	38	149	13	127	111	99	288	2.9 (n=97)	2.3	2.0

Breeding success of Hobby in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Additional home ranges with single birds	Pair occupied home ranges monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Dumfries & Galloway	1	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
Tayside	7	4	1	3	0	3	3	3	5	1.7 (n=3)	1.7	1.7
- Angus	6	3	1	2	0	2	2	2	4	2.0 (n=2)	2.0	2.0
- Perth & Kinross	1	1	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
TOTAL:	8	5	1	4	0	4	4	4	7	1.8 (n=4)	1.8	1.8

Breeding success of Peregrine in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	34	11	2	11	1	10	7	7	13	1.7 (n=6)	1.2	1.1
- Argyll Islands	7	3	0	3	0	3	2	2	4	1.5 (n=1)	1.0	1.0
- Argyll Mainland	18	6	1	6	1	5	4	4	8	2.0 (n=4)	1.6	1.3
- Bute	9	2	1	2	0	2	1	1	1	1.0 (n=1)	0.5	0.5
Central Scotland	30	16	5	13	1	12	12	11	28	2.5 (n=11)	2.3	2.2
- Arrochar & Helensburgh	2	0	1	0	0	0	0	0	0	-	-	-
- Clackmannanshire	2	2	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Dunbartonshire	1	1	0	0	0	0	0	0	0	-	-	-
- Falkirk	3	3	0	3	0	3	3	3	9	3.0 (n=3)	3.0	3.0
- North Lanarkshire	8	4	3	4	0	4	4	3	9	3.0 (n=3)	2.2	2.2
- Stirling	14	6	1	5	1	4	4	4	8	2.0 (n=4)	2.0	1.6
Dumfries & Galloway	100	54	10	47	1	42	39	37	68	1.8 (n=36)	1.6	1.4
Highland	106	23	15	17	1	16	16	16	33	2.1 (n=16)	2.1	1.9
- Badenoch & Strathspey	17	4	2	1	1	0	0	0	0	-	-	-
- Caithness	9	2	2	2	0	2	2	2	4	2.0 (n=2)	2.0	2.0
- Inverness-shire	23	6	5	5	0	5	5	5	11	2.2 (n=5)	2.2	2.2
- Lochaber	1	0	0	0	0	0	0	0	0	-	-	-
- Nairn	2	0	0	0	0	0	0	0	0	-	-	-
- Ross-shire	38	6	1	5	0	5	5	5	11	2.2 (n=5)	2.2	2.2
- Small Isles	1	1	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Sutherland	13	3	5	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
- West Moray	2	1	0	1	0	1	1	1	3	3.0 (n=1)	3.0	3.0
Lewis & Harris	1	1	0	0	0	0	0	0	0	-	-	-
- Lewis	1	1	0	0	0	0	0	0	0	-	-	-

Breeding success of Peregrine in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Lothian & Borders	143	53	11	53	13	39	32	32	85	2.7 (n=32)	2.2	1.6
- Lothian	36	13	5	13	3	10	9	9	23	2.6 (n=9)	2.3	1.8
- Scottish Borders	107	40	6	40	10	29	23	23	62	2.7 (n=23)	2.1	1.6
North-east Scotland	43	14	2	12	2	10	10	10	22	2.2 (n=10)	2.2	1.8
- Aberdeenshire	32	12	1	10	2	8	8	8	19	2.4 (n=8)	2.4	1.9
- East Moray	11	2	1	2	0	2	2	2	3	1.5 (n=2)	1.5	1.5
Orkney	35	16	3	16	4	12	12	12	21	1.8 (n=12)	1.8	1.3
- Copinsay	1	0	0	0	0	0	0	0	0	-	-	-
- Eday	2	1	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Hoy	17	12	0	12	4	8	8	8	15	1.9 (n=8)	1.9	1.2
- Mainland	8	1	2	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Rousay	2	1	0	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- South Ronaldsay	3	1	0	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Stronsay	2	0	0	0	0	0	0	0	0	-	-	-
Shetland	7	1	0	1	0	0	0	0	0	-	-	-
- Bressay	1	0	0	0	0	0	0	0	0	-	-	-
- Fair Isle	3	1	0	1	0	0	0	0	0	-	-	-
- Mainland	2	0	0	0	0	0	0	0	0	-	-	-
- Unst	1	0	0	0	0	0	0	0	0	-	-	-
South Strathclyde	66	29	3	29	4	22	21	20	40	2.0 (n=19)	1.8	1.3
- Arran & Cumbrae	7	4	0	4	0	4	4	4	9	2.2 (n=4)	2.2	2.2
- Ayrshire	38	15	3	15	2	11	11	10	17	1.6 (n=9)	1.5	1.1
- Inverclyde	1	0	0	0	0	0	0	0	0	-	-	-
- Renfrewshire	6	5	0	5	2	3	3	3	7	2.3 (n=3)	2.3	1.4
- South Lanarkshire	14	5	0	5	0	4	3	3	7	2.3 (n=3)	1.8	1.4

Breeding success of Peregrine in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Further home ranges in use (single birds or fresh signs)	Pairs monitored	Pairs failing early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Tayside	93	48	9	42	2	32	32	31	63	2.0 (n=31)	2.0	1.5
- Angus	31	14	3	11	0	6	6	5	9	1.8 (n=5)	1.5	0.8
- Fife	25	15	1	15	0	14	14	14	29	2.1 (n=14)	2.1	1.9
- Perth & Kinross	37	19	5	16	2	12	12	12	25	2.1 (n=12)	2.1	1.6
Uist	6	4	2	2	0	2	2	2	8	4.0 (n=2)	4.0	4.0
- Benbecula	1	1	0	1	0	1	1	1	4	4.0 (n=1)	4.0	4.0
- North Uist	3	1	2	0	0	0	0	0	0	-	-	-
- South Uist	2	2	0	1	0	1	1	1	4	4.0 (n=1)	4.0	4.0
TOTAL:	664	270	62	243	29	197	183	178	381	2.2 (n=175)	2.0	1.6

Breeding success of Raven in Scotland in 2019

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Argyll	90	60	59	6	47	45	44	116	2.6 (n=44)	2.5	2.0
- Argyll Islands	25	11	11	0	10	10	10	29	2.9 (n=10)	2.9	2.6
- Argyll Mainland	39	31	30	5	24	23	22	55	2.5 (n=22)	2.3	1.8
- Bute	26	18	18	1	13	12	12	32	2.7 (n=12)	2.5	1.8
Central Scotland	64	54	43	6	37	31	31	86	2.7 (n=29)	2.3	2.0
- Arrochar & Helensburgh	7	7	6	1	5	4	4	8	2.0 (n=4)	1.6	1.3
- Clackmannanshire	2	2	2	0	2	2	2	5	2.0 (n=1)	2.0	2.0
- Dunbartonshire	1	0	0	0	0	0	0	0	-	-	-
- Falkirk	2	2	2	0	2	2	2	7	3.5 (n=2)	3.5	3.5
- North Lanarkshire	14	13	13	1	12	12	12	34	2.8 (n=12)	2.8	2.6
- Stirling	38	30	20	4	16	11	11	32	2.8 (n=10)	1.9	1.6
Dumfries & Galloway	74	54	33	0	32	28	28	68	2.4 (n=26)	2.1	2.0
Highland	32	29	24	1	23	23	23	59	2.5 (n=22)	2.5	2.4
- Badenoch & Strathspey	4	4	4	0	4	4	4	9	2.2 (n=4)	2.2	2.2
- Inverness-shire	6	6	3	0	3	3	3	8	2.3 (n=2)	2.3	2.3
- Lochaber	2	1	1	0	1	1	1	1	1.0 (n=1)	1.0	1.0
- Nairn	1	1	1	0	1	1	1	2	2.0 (n=1)	2.0	2.0
- Ross-shire	11	9	8	1	7	7	7	15	2.1 (n=7)	2.1	1.9
- Small Isles	4	4	4	0	4	4	4	16	4.0 (n=4)	4.0	4.0
- Sutherland	4	4	3	0	3	3	3	8	2.7 (n=3)	2.7	2.7
Lewis & Harris	13	11	10	1	9	9	8	18	2.1 (n=7)	1.9	1.7
- Harris	1	1	1	0	1	1	0	0	-	-	-
- Lewis	12	10	9	1	8	8	8	18	2.1 (n=7)	2.1	1.9
Lothian & Borders	52	41	35	1	33	33	31	89	2.8 (n=28)	2.6	2.5
- Lothian	16	12	12	0	12	12	12	39	3.2 (n=12)	3.2	3.2
- Scottish Borders	36	29	23	1	21	21	19	50	2.5 (n=16)	2.2	2.0

Breeding success of Raven in Scotland in 2019 (continued)

Region	Home ranges checked	Home ranges occupied by pairs	Pairs monitored	Failed early or non-breeding	Pairs known to lay eggs	Pairs known to hatch eggs	Pairs known to fledge young	Minimum number of young fledged	Productivity (Young fledged per successful pair)	Productivity (Young fledged per pair laying eggs)	Productivity (Young fledged per pair occupied home range monitored)
Orkney	4	3	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
- Stronsay	4	3	2	0	2	2	2	5	2.5 (n=2)	2.5	2.5
Shetland	25	18	17	1	16	14	13	45	3.4 (n=12)	2.8	2.6
- Mainland	19	13	13	1	12	10	9	29	3.1 (n=8)	2.3	2.2
- Yell	6	5	4	0	4	4	4	16	4.0 (n=4)	4.0	4.0
South Strathclyde	41	29	26	2	19	19	19	58	3.1 (n=19)	3.1	2.2
- Ayrshire	41	29	26	2	19	19	19	58	3.1 (n=19)	3.1	2.2
Tayside	96	61	51	3	45	40	39	97	2.5 (n=39)	2.2	1.9
- Angus	28	8	6	0	5	4	4	8	2.0 (n=4)	1.6	1.3
- Fife	12	9	9	0	8	7	7	21	3.0 (n=7)	2.6	2.3
- Perth & Kinross	56	44	36	3	32	29	28	68	2.4 (n=28)	2.1	1.9
Uist	48	30	18	0	16	14	14	49	3.5 (n=14)	3.1	2.7
- Benbecula	7	5	2	0	2	2	2	4	2.0 (n=2)	2.0	2.0
- North Uist	26	13	6	0	6	5	5	18	3.6 (n=5)	3.0	3.0
- South Uist	15	12	10	0	8	7	7	27	3.9 (n=7)	3.4	2.7
TOTAL:	539	390	318	21	279	258	252	690	2.8 (n=242)	2.5	2.2