

Family	Common name	Scientific name	Demographic parameter	Age class	Age (years)	Mean	Standard deviation	0.025 confidence interval	0.975 confidence interval	Standard error	Study area	Region	Country	Number of years in study	Data collection method (MR - mark-recapture; RR - ring-recovery; Joint - ring-recovery and mark-recapture)	Estimation method (VR - variable recapture; CR - constant recapture)	Study Period	Reference (all references are listed in the main report)	Cited by
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.560					Farne Islands	NE England	UK	4	RR	CR	1951-1955	Coulson and White 1957	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.860					Farne Islands	NE England	UK	4	MR	CR	1951-1955	Coulson and White 1957	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.882					Isle of May	SE Scotland	UK	10	MR	VR	1986-1996	Harris et al 2000a	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult	≥4	0.856	0.058				Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	King and Brooks 2002	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.866				0.012	Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	Catchpole et al 1998	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.888		0.859	0.897		Isle of May	SE Scotland	UK	24	Joint	VR	1967-1992	Harris et al 1994c	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult	≥3	0.858	0.194			0.030	Isle of May	SE Scotland	UK	42	Joint	VR	1963-2005	Frederiksen et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	adult		0.822	0.161				Isle of May	SE Scotland	UK	14	MR	CR	1997-2010	Newell et al 2010	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	juvenile	0-1	0.460					Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	Catchpole et al 1998	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	juvenile	0-1	0.513	0.246			0.038	Isle of May	SE Scotland	UK	42	Joint	VR	1963-2005	Frederiksen et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	juvenile	0-1	0.307				0.200	Isle of May	SE Scotland	UK	24	MR	VR	1963-1987	Harris et al 1994b	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	juvenile	0-1	0.698	0.199				Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	King and Brooks 2002	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	immature	1-2	0.737	0.181			0.028	Isle of May	SE Scotland	UK	42	Joint	VR	1963-2005	Frederiksen et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	immature	1-2	0.511	0.000				Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	King and Brooks 2002	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	immature	2-3	0.637	0.000				Isle of May	SE Scotland	UK	8	Joint	VR	1983-1991	King and Brooks 2002	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	survival	immature	3-4	0.491	0.206				Isle of May	SE Scotland	UK	24	RR	CR	1962-1987	Aebischer and Wanless 1992	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity (age-dependent)		2	0.532				0.049	Isle of May	SE Scotland	UK	1			1998	Daunt et al 1999	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity (age-dependent)		≥3	0.786				0.042	Isle of May	SE Scotland	UK	1			1998	Daunt et al 1999	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.010	0.663				An Glas Eilean	NW Scotland	UK	11			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.210	0.416				Bardsey	Wales	UK	12			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.110	0.537				Canna	NW Scotland	UK	20			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.080	1.527				Carraig an Daimh	SW Scotland	UK	2			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.290	0.297				Coll	SW Scotland	UK	2			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.580	0.000				Dubh Fheith	SW Scotland	UK	1			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.500	0.000				Eilean Balnagowan	SW Scotland	UK	1			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.060	0.538				Eilean Buidhe	SW Scotland	UK	10			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.660	0.485				Eilean na Cille	SW Scotland	UK	12			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.380	0.358				Fair Isle	Shetland	UK	20			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			0.950	0.392				Farne Islands	NE England	UK	19			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			0.680	0.600				Foula	Shetland	UK	9			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.256	0.621				Isle of May	SE Scotland	UK	14			1997-2010	Newell et al 2010	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			0.910	0.492				Isle of May	SE Scotland	UK	20			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.110	0.340				Middleholm	Wales	UK	4			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.360	0.486				North Sutor	N Scotland	UK	14			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.600	0.000				Papa Westray	Orkney	UK	1			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.040	0.520				Ruadh Sgeir	SW Scotland	UK	12			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.110	0.500				Rum	NW Scotland	UK	4			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.240	0.520				St. Abb's Head	SE Scotland	UK	16			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.170	0.297				Sumburgh Head	Shetland	UK	18			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.020	0.212				Ynysodd Gwylan	Wales	UK	7			1986-2005	Mavor et al 2008	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			2.135	0.322				West	UK		23				Mavor et al 2008; Cook and Robinson 2010	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.277	0.456				North	UK		137				Mavor et al 2008; Cook and Robinson 2010	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.132	0.511				East	UK		49				Mavor et al 2008; Cook and Robinson 2010;	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	productivity			1.303	0.483				National average	UK		209				Newell et al 2010	
											Isle of May; Bass Rock; Craigleith; The Lamb; Farne Islands	SE Scotland	UK	2			1982-1983	Aebischer 1995	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	dispersal	adult		0.012						UK		9	MR		1997-2006	Barlow et al 2013	
											Isle of May; Bass Rock; Craigleith; The Lamb; Farne Islands	SE Scotland	UK	2			1982-1983	Aebischer 1995	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	dispersal	juvenile (natal)		0.049						SE Scotland	UK	2			1974-1976	Aebischer 1986	
Cormorants	European shag	<i>Phalacrocorax aristotelis</i>	age of recruitment			2.000					Isle of May	SE Scotland	UK	2					

To assess **quality**, the estimate is scored on the number of years considered by the study, the number of individuals included per year and whether an estimation of the range or error is available with the estimation. To assess **representation**, the estimate is scored on whether the data reflects a UK-based study, includes recent data (<10 years old), and whether the trajectory of the study colony reflects the current UK population trend. Consequently, this scoring system assesses representation at the national scale. Each criterion receives a 0 for “no”, 1 for “partially or unknown and therefore requiring further evaluation”, and 2 for “yes”, scoring quality and representation individually out of 6. Where an estimate combines several studies that conflict on specific criteria, a 1 was awarded to signify partial characterisation. Notation: A - adult, J - juvenile, S - stable, Mixed - mixed, I - increasing, D - decreasing, U - unknown.

Data Quality

Species	Age	Current UK pop. trend	Survival				Productivity				Age of recruitment				Missed breeding				Dispersal			
			≥5 years	>30 Individual yr ⁻¹	Range of values available	Total	≥5 years	>30 Individual yr ⁻¹	Range of values available	Total	≥5 years	>30 Individual yr ⁻¹	Range of values available	Total	≥5 years	>30 Individual yr ⁻¹	Range of values available	Total	≥5 years	>30 Individual yr ⁻¹	Range of values available	Total
European shag	A	D	2	2	2	6	2	2	2	6	0	2	2	4	-	-	-	-	2	2	0	4
	J	D	2	2	2	6	0	1	2	3	-	-	-	-	-	-	-	-	0	2	0	2

Data Representation

Species	Age	Current UK pop. trend	Survival				Productivity				Age of recruitment				Missed breeding				Dispersal			
			UK data	Current data	Current trend	Total	UK data	Current data	Current trend	Total	UK data	Current data	Current trend	Total	UK data	Current data	Current trend	Total	UK data	Current data	Current trend	Total
European shag	A	D	2	1	1	4	2	1	2	5	2	0	0	2	-	-	-	-	2	1	2	5
	J	D	2	1	1	4	2	0	2	4	-	-	-	-	-	-	-	-	2	0	0	2