

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
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.850						Brittany	France	4	MR	VR	1981-1985	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.812	0.131				Foula	Shetland	UK	10	MR	VR	1987-1997	Oro and Furness 2002	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.911	0.035				Isle of May	SE Scotland	UK	16	MR	VR	1986-2002	Frederiksen et al 2004a	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.882					Isle of May	SE Scotland	UK	10	MR	VR	1986-1996	Harris et al 2000a	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.750	0.072				Isle of May	SE Scotland	UK	15	MR	CR	1995-2010	Newell et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.775	0.106				North Shields	NE England	UK	14	MR	CR	1990-1998	Coulson and Strouger 1999	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.794	0.081				North Shields	NE England	UK	31	MR	CR	1954-1985	Aebischer and Coulson 1990	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.835	0.035				North Shields	NE England	UK	19		CR	1955-1974	Coulson and Wooller 1976	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.837	0.082				Skomer	Wales	UK	29	MR	VR	1978-2007	Taylor et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult		0.870	0.057				National average		UK	55				Oro and Furness 2002; Frederiksen et al 2004a; Coulson and Strouger 1999; Taylor et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	survival	adult	0-1	0.790					North Shields	NE England	UK	4	RR	CR	1955-1958	Coulson and White 1959	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	>1 attempt		0.485	0.099				Brittany	France	10	MR			1985-1994	Cam and Monnat 2000	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	1st attempt		0.290	0.079				Brittany	France	10	MR			1985-1994	Cam and Monnat 2000	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.030	0.147				Increasing colony	Brittany	France	4	MR		1979-1983	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.490	0.192				Decreasing colony	Brittany	France	4	MR		1979-1983	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	>1 attempt		1.353	0.185				North Shields	NE England	UK	28			1954-1982	Porter 1990	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	>1 attempt		1.325					North Shields	NE England	UK	5			1949-1954	Wooller and Coulson 1977	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	≥3rd attempt		1.630					North Shields	NE England	UK	3	MR		1954-1956	Coulson and White 1958	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	1st attempt		0.660					North Shields	NE England	UK	3	MR		1954-1956	Coulson and White 1958	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	1st attempt		1.023	0.161				North Shields	NE England	UK	28			1954-1982	Porter 1990	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	1st attempt		1.010					North Shields	NE England	UK	5			1949-1954	Wooller and Coulson 1977	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity (experience-dependent)	2nd attempt		1.210					North Shields	NE England	UK	3	MR		1954-1956	Coulson and White 1958	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.500	0.305				Alisa Craig	SW Scotland	UK	19			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.730	0.424				Bardsey	Wales	UK	18			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.600	0.360				Bullers of Buchan	NE Scotland	UK	16			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.850	0.212				Burnage	Shetland	UK	2			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.650	0.268				Canna	NW Scotland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.630	0.269				Cliffs of Moher	SW Ireland	UK	2			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.100	0.252				Coquet Island	NE England	UK	13			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.960	0.397				Costa Head	Orkney	UK	13			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.930	0.160				Downpatrick Head	NW Ireland	UK	4			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.670	0.179				Dunmore	SE Ireland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.290	0.232				Eileug Stacks	Wales	UK	15			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.328	0.429			0.050	Fair Isle	Shetland	UK	12			1998-2010	Shaw et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.660	0.492				Fair Isle	Shetland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.860	0.339				Farne Islands	NE England	UK	18			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.560	0.436				Foula	Shetland	UK	19			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.720	0.080				Fowlsheugh	NE Scotland	UK	1			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.070	0.200				Gateshead	NE England	UK	16			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.530	0.206				Great Ormes Head	Wales	UK	17			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.820	0.313				Gultak	Orkney	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.220	0.349				Handa	NW Scotland	UK	19			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.210	0.166				Hermaness	Shetland	UK	11			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.560	0.358				Isle of May	SE Scotland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.830	0.340				Isle of Muck	NW Ireland	UK	4			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.050	0.268				Lowestoft	E England	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.690	0.000				Marsden Cliffs	NE England	UK	1			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.010	0.313				Marwick Head	Orkney	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.010	0.313				Mull Head	Orkney	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.370	0.443				Noness	Shetland	UK	10			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.250	0.242				North Hallsands	SW England	UK	3			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.600	0.360				North Sutor	N Scotland	UK	16			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.260	0.224				Noss	Shetland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.700	0.454				Papa Westray	Orkney	UK	17			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.330	0.316				Peel Hill	Isle of Man	UK	10			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.460	0.252				Ram Head	SE Ireland	UK	13			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.490	0.361				Ramma Geo	Shetland	UK	13			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.600	0.396				Ramsey Head	Wales	UK	8			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			1.060	0.360				Rockabill	SE Ireland	UK	9			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.750	0.412				Roussay	Orkney	UK	17			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.970	0.313				Row Head	Orkney	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.810	0.313				Saltburn	NE England	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.440	0.320				Sands of Forvie	NE Scotland	UK	16			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.680	0.224				Skomer	Wales	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.690	0.305				St Abi's Head	SE Scotland	UK	19			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.430	0.218				St Kilda	NW Scotland	UK	19			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.170	0.240				St Margaret's Island	Wales	UK	2			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.490	0.492				Sumborough Head	Shetland	UK	20			1986-2005	Mavor et al 2008	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.408	0.477				Shetland	UK	107				1986-2005	Mavor et al 2008; Frederiksen et al 2005	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.819	0.332				East	UK	291				1986-2005	Mavor et al 2008; Frederiksen et al 2005	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.643	0.313				West	UK	180				1986-2005	Mavor et al 2008; Frederiksen et al 2005	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.547	0.395			0.052	Isle of May	SE Scotland	UK	16	MR		1986-2002	Frederiksen et al 2004a	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.620					Isle of May	SE Scotland	UK	11			1986-1996	Harris and Wanless 1997	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.398	0.412				Isle of May	SE Scotland	UK	4	MR		1997-2000	Lewis et al 2001	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.220				0.060	Isle of May	SE Scotland	UK	1	MR		2010	Newell et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.465	0.279				Isle of May	SE Scotland	UK	14	MR		1997-2010	Newell et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.490	0.693				Sumborough head	Shetland	UK	2	MR		1990-1991	Hamer et al 1993	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.258	0.172				Foula	Shetland	UK	10	MR		1987-1997	Oro and Furness 2002	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	productivity			0.690	0.296				National average		UK	626				Mavor et al 2008; Newell et al 2010; Shaw et al 2010	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding			0.090					Brittany	France	16	MR			1979-1995	Cam et al 1998	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding	</															

Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding			0.208	0.207			Decreasing colony	Brittany	France	9	MR		1979-1988	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding			0.640				North Shields	NE England	UK	1			1989	Coulson and Mevergnines 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding			0.200				North Shields	NE England	UK					Coulson and White 1956	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	incidences of non-breeding			0.167					Shetland	UK	2			1980-1981	Richardson 1985	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	dispersal	adult		0.012	0.018			increasing colony	Brittany	France	9	MR		1979-1988	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	dispersal	adult		0.062	0.045			Decreasing colony	Brittany	France	9	MR		1979-1988	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	dispersal	juvenile (natal)		0.890				North Shields	NE England	UK	10			1957-1967	Porter and Coulson 1987	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	age of recruitment			4.000					Brittany	France	12	MR		1987-1999	Cam et al 2002	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	age of recruitment			3.900	0.830				Brittany	France	4	MR		1979-1983	Danchin and Monnat 1992	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	age of recruitment			4.535	1.464			North Shields	NE England	UK	10			1957-1967	Porter and Coulson 1987	
Gulls	Black-legged kittiwake	<i>Rissa tridactyla</i>	age of recruitment			4.000				North Shields	NE England	UK	5			1949-1954	Wooler and Coulson 1977	

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
Black-legged kittiwake	A	D	2	2	2	6	2	2	2	6	2	2	2	6	2	0	2	4	2	0	2	6
	J	D	0	1	0	1	2	2	2	6	-	-	-	-	-	-	-	-	2	1	0	3

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
Black-legged kittiwake	A	D	2	1	2	5	2	1	2	5	2	0	2	4	0	0	2	2	0	0	2	2
	J	D	2	0	1	3	2	0	2	4	-	-	-	-	-	-	-	-	2	0	1	3