

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
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult	6-8	0.838				0.015		New Brunswick	Canada	24	MR	VR	1980-2003	Breton et al 2006	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.935	0.025				Hornøya	Finmark	Norway	12	MR	VR	1990-2002	Harris et al 2005	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.935	0.040				Rost		Norway	12	MR	VR	1990-2002	Harris et al 2005	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.915	0.110				Fair Isle	Shetland	UK	12	MR	VR	1990-2002	Harris et al 2005	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.960					Isle of May	SE Scotland	UK	6	MR		1972-1979	Harris 1983	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.935	0.044				Isle of May	SE Scotland	UK	21	MR	VR	1973-1993	Harris et al 1997	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.916					Isle of May	SE Scotland	UK	10	MR	VR	1986-1996	Harris et al 2000a	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.935	0.035				Isle of May	SE Scotland	UK	12	MR	VR	1990-2002	Harris et al 2005	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.901	0.091				Isle of May	SE Scotland	UK	24	MR	VR	1984-2008	Lahoz-Monfort et al 2011	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.942	0.016			0.008	Skomer	Wales	UK	4	MR	CR	1973-1976	Ashcroft 1979	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.906	0.047			0.008	Skomer	Wales	UK	36	MR		1972-2008	Taylor et al 2010	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.913					Skomer	Wales	UK	20	MR		1972-1992	Poole et al 1998	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.925	0.050				Skomer	Wales	UK	12	MR	VR	1990-2002	Harris et al 2005	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	adult		0.906	0.083				National average		UK	72				Harris et al 2005; Taylor et al 2010; Lahoz-Monfort et al 2011	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	immature	0-3	0.709				0.022		New Brunswick	Canada	24	MR	VR	1980-2003	Breton et al 2006	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	immature	4	0.760				0.019		New Brunswick	Canada	24	MR	VR	1980-2003	Breton et al 2006	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	immature	5	0.805				0.017		New Brunswick	Canada	24	MR	VR	1980-2003	Breton et al 2006	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	immature	1-4	0.075					Isle of May	SE Scotland	UK	6	MR	CR	1972-1979	Harris 1983	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	survival	immature		0.010					St Kilda	NW Scotland	UK	8	MR	CR	1973-1980	Harris and Rothery 1985	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.549	0.118			0.045		New Foundland	Canada	2			1992-1993	Rodway and Chardine 1998	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.642	0.041			0.015	Skomer	Wales	UK	3	MR		1973-1975	Ashcroft 1979	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.632	0.094			0.047	St Kilda	NW Scotland	UK	5			1973-1979	Harris 1980	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.800				0.030	Isle of May	SE Scotland	UK	5	MR		1972-1979	Harris 1983	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.800					Skomer	Wales	UK	1			2010	Taylor et al 2010	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.570	0.141			0.200	Fair Isle	Shetland	UK	2			2005-2006	Mavor et al 2008	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.415	0.219			0.310	St Kilda	NW Scotland	UK	2			2005-2006	Mavor et al 2008	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.740	0.057			0.080	Isle of May	SE Scotland	UK	2			2005-2006	Mavor et al 2008	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.870	0.028			0.040	Farne Islands	NE England	UK	2			2005-2006	Mavor et al 2008	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.785	0.078			0.110	Skomer	Wales	UK	2			2005-2006	Mavor et al 2008	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.642	0.135			0.036	Isle of May	SE Scotland	UK	14			1997-2010	Newell et al 2010	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.523	0.173				Fair Isle	Shetland	UK	12			1998-2010	Shaw et al 2010	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	productivity			0.617	0.151				National average		UK	41				Ashcroft 1979; Harris 1980; Taylor et al 2010; Mavor et al 2008; Newell et al 2010; Shaw et al 2010	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	incidences of non-breeding			0.078					Skomer	Wales	UK	3	MR		1973-1975	Ashcroft 1979	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	dispersal	adult		0.080						New Brunswick	Canada	24	MR		1980-2003	Breton et al 2006	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	dispersal	adult		0.000						New Brunswick	Canada					Kress and Nettleship 1988	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	dispersal	adult		0.046					Skomer	Wales	UK	3	MR		1973-1975	Ashcroft 1979	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	dispersal	juvenile (natal)		0.230					Isle of May	SE Scotland	UK	6	MR		1972-1979	Harris 1983	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	age of recruitment			5.000					Isle of May	SE Scotland	UK	6	MR		1972-1979	Harris 1983	
Auks	Atlantic Puffin	<i>Fratercula arctica</i>	age of recruitment			5.000					Skomer	Wales	UK		MR		1973-1975	Ashcroft 1979	

This scoring system assesses representation at the national scale. 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. 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, 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
Atlantic puffin	A	M	2	2	2	6	2	2	2	6	6	6	6	6	0	2	2	4	2	2	2	6
	J	M	2	2	2	6	-	-	-	-	-	-	-	-	-	-	-	-	2	2	0	4

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
Atlantic puffin	A	M	2	1	2	5	2	1	2	5	2	0	1	3	2	0	1	3	1	0	1	2
	J	M	0	0	1	1	-	-	-	-	-	-	-	-	-	-	-	-	2	0	1	3