

**Supplementary material**

Appendix 1

Table A1. Studies used to estimate female body mass (g) at arrival on breeding grounds for blue-winged teal (BWTE), wood duck (WODU), ring-necked duck (RNDU), lesser scaup (LESC), and mallard (MALL).

Species	Mass	Sample size	Source
BWTE			
	384	26	Rohwer 1986b
	391	25	Rohwer 1986b
	339	255	Lokemoen et al. 1990
WODU			
	645	84	Drobney 1982
RNDU			
	703	69	Hohman 1986
	803	8	Hohman 1986
	730	25	Roy et al. 2012
	789	24	Roy et al. 2012
LESC			
	730	15	Afton and Ankney 1991
	787	6	Afton and Ankney 1991
MALL			
	1200	19	Krapu 1981
	1104	350	Lokemoen et al. 1990

Table A2. Studies used to estimate egg mass (g) for blue-winged teal (BWTE), wood duck (WODU), ring-necked duck (RNDU), lesser scaup (LESC), and mallard (MALL).

Species	Egg mass (g)	Sample size	Source
BWTE	28.1	172	Rohwer 1986
	27.2	22	Lokemoen et al. 1990
WODU	42.6	13	Drobney 1980
	44.2	105	Hepp et al. 1987
	43.9	9	Kennamer and Hepp 1987
	41.7	9	Kennamer and Hepp 1987
RNDU	48.5	14	Alisauskus et al. 1990
LESC	48.2		Rohwer 1988
MALL	49.3	27	Lokemoen et al. 1990
	45.5	302	Lokemoen et al. 1990

Table A3. Studies used to estimate clutch size for blue-winged teal (BWTE), wood duck (WODU), ring-necked duck (RNDU), lesser scaup (LESC), and mallard (MALL).

Species	Clutch size	Sample size	Source
BWTE			
	10.6	68	Armstrong and Robertson 1988
	10.4	114	Keith 1961
	10.5	12	Dane 1966
	11.1	32	Dane 1966
	11	56	Dane 1966
WODU			
	13.9	40	Leopold 1951
	11.4	239	Clawson et al. 1979
	10.5	158	Haramis and Thompson 1985
RNDU			
	9	423	Mendall 1958
	8.15	32	Mcauley and Longcore 1989
	8.75	32	Roy et al. 2012
	8.4	49	Roy et al. 2012
	8.6	39	Roy et al. 2012
	8.6	25	Roy et al. 2012
	8.62	8	Roy et al. 2012
	9.53	119	Roy et al. 2012
	8.5	61	Roy et al. 2012
LESC			
	10.5	59	Vermeer 1968
	9	26	Afton 1984
	10	21	Afton 1984
	10.9	16	Afton 1984
	12.1	14	Afton 1984
MALL			
	11.1	35	Krapu 1981
	10.4	67	Krapu 1981
	9.1	66	Krapu 1981
	9.4	35	Krapu 1981
	8.6	25	Krapu 1981
	7.8	13	Krapu 1981
	8.96	78	Lokemoen et al. 1990b
	8.49	57	Lokemoen et al. 1990b
	8.8	97	Keith 1961
	8.55	111	Dzubin and Gollop 1972

Table A4. Studies used to estimate annual survival for female blue-winged teal (BWTE), wood duck (WODU), ring-necked duck (RNDU), lesser scaup (LESC), and mallard (MALL).

Species	Survival	Source
BWTE	0.52	Krementz et al. 1997
	0.50	Krementz et al. 1997
	0.57	Krementz et al. 1997
	0.53	Krementz et al. 1997
	0.52	Johnson et al. 1992
	0.49	Arnold and Clark 1996
WODU	0.47	Johnson et al. 1986
	0.48	Johnson et al. 1986
	0.52	Johnson et al. 1986
	0.59	Kennamer and Hepp 2000
	0.63	Dugger et al. 1999
RNDU	0.47	Conroy and Eberhardt 1983
	0.48	Conroy and Eberhardt 1983
LESC	0.57	Rotella et al. 2003
	0.62	Rotella et al. 2003
	0.60	Arnold et al. 2016
MALL	0.57	Trost 1987
	0.58	Trost 1987
	0.56	Trost 1987
	0.55	Trost 1987
	0.59	Trost 1987
	0.60	Trost 1987
	0.74	Trost 1987
	0.51	Trost 1987
	0.54	Trost 1987
	0.58	Trost 1987
	0.55	Anderson 1975
	0.58	Anderson 1975
	0.56	Arnold and Clark 1996

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