



Year	Indicated Breeding Birds (IBB)	SE Breeding Birds	Indicated Total Birds (ITB)	SE Indicated Total	All Year Index (1986-2017)	Indicated Breeding Birds (IBB)	Indicated Total Birds (ITB)
1986	501	235	360	181	number of years = 32 average index = 539 SE average index = 90 95% CI index = (306-582) ave. annual growth = 1.011 95% CI annual growth = (0.966-1.058)	32	32
1987	473	259	663	428			
1988	94	103	68	78			
1989	164	135	265	206			
1990	588	324	1,200	960			
1991	557	280	400	216			
1992	208	110	743	405			
1993	126	143	104	111			
1994	409	343	834	456			
1995	653	262	534	224			
1996	492	148	1,035	436			
1997	832	363	834	368			
1998	1,360	532	1,316	495			
1999	52	43	207	156			
2000	1,219	546	1,368	509			
2001	79	70	788	921			
2002	181	118	158	101			
2003	395	340	339	269			
2004	90	81	196	138			
2005	57	33	205	145			
* 2006	224	104	512	394			
2007	24	22	24	22	10-Yr Index (2008-2017) number of years = 10 average index = 845 SE average index = 206 95% CI index = (441-1,250) ave. annual growth = 1.054 95% CI annual growth = (0.782-1.421)	10	10
2008	759	297	900	317			
2009	521	217	620	231			
2010	131	85	131	85			
2011	806	411	806	411			
2012	1,837	411	1,837	411			
2013	500	206	500	206			
2014	25	25	125	105			
2015	1,042	338	1,042	338			
2016	2,025	706	2,025	706			
2017	805	350	1,358	646			

Note:
 Indicated Breeding Birds (IBB) = 2 x (singles + pairs)
 Indicated Total Birds (ITB) = 2 x (singles + pairs) + flocks

Figure 13. Summary of annual population indices for American Wigeon (*Anas americana*) on the Arctic Coastal Plain, Alaska, 1986–2017. Average annual growth rates were estimated using log-linear regression, with standard errors (SE) calculated from residual errors around the regression line. Long-term growth rates are depicted in red (solid line = indicated total birds [ITB], dotted line = indicated breeding birds [IBB]), while 10-year growth rates are depicted in black (bold = ITB, non-bold = IBB). *Estimates from 1986 to 2006 are adjusted to account for survey timing and geographic extent of current (2007–2017) survey design (study area = 57,336 km²).