

## Raw data used in:

Koenig, W. D. 1982. Ecological and social factors affecting hatchability of eggs. *Auk* 99: 526-536.

(Studies with samples of less than 25 eggs were not used in the final runs.)

1	2	3	4	5	6	7	8	9	10	11	12	1	1	1	16	17
82.	<i>Megadyptes</i>	2	2	1	46	2	2	3	0	1156	2.0	3	2	1	1163	1420
95.	<i>Puffinus</i>	2	2	1	77	2	3	3	0	1000	1.8	3	2	1	1360	1451
23.	<i>Diomedea</i>	2	2	1	26	1	3	3	0	2716	1.0	3	2	1	702	729
35.	<i>Puffinus</i>	2	2	1	0		3	3	0	360	1.0	3	2	1	149	151
71.	<i>Fratercula</i>	2	2	1	47	1	3	3	0	563	1.0	3	2	1	347	386
70.	<i>Sula</i>	2	2	1	56	1	2	3	0	1031	1.0	3	2	1	407	443
93.	<i>Phalacrocorax</i>	2	2	1	51	1	2	3	0	476	3.1	3	2	1	633	833
49.	<i>Branta</i>	2	2	1	50	1	2	1	1	869	5.1	2	1	1	215	225
46.	<i>Branta</i>	2	2	1	58	1	3	1	0	869	4.8	1	1	1	84	86
22.	<i>Bucephala</i>	2	2	3	58	1	3	2	0	581	8.8	2	1	1	312	330
29.	<i>Bucephala</i>	2	2	3	63	1	2	2	0	581	10.3	2	1	1	787	829
20.	<i>Anas</i>	2	2	1	48	1	2	1	2	430	9.6	3	1	1	1468	1582
57.	<i>Aix</i>	2	2	3	42	1	1	2	1	436	11.8	2	1	5	695	828
41.	<i>Gyps</i>	2	1	1	2	1	3	3	6	2074	1.0	3	2	1	73	75
3.	<i>Circus</i>	2	1	1	59	1	2	3	0	312	4.6	1	1	3	23	29
107.	<i>Buteo</i>	2	1	2	0		3	2	3	567	1.9	1	2	4	29	64
40.	<i>Falco</i>	2	1	2	47	1	2	3	0	158	3.5	4	2	1	71	88
111.	<i>Falco</i>	2	1	1	37	1	3	3	0	239	2.1	4	2	1	382	441
9.	<i>Falco</i>	2	1	1	29	1	3	3	0	239	2.0	4	2	1	114	131
64.	<i>Ortalis</i>	2	1	1	27	1	1	3	0	971	2.9	2	1	1	249	271
120.	<i>Dendragapus</i>	2	1	1	49	1	3	1	1	321	6.9	1	1	3	360	379
99.	<i>Nycticorax</i>	2	2	2	31	1	2	3	0	380	3.0	3	2	1	22	24
99.	<i>Hydranassa</i>	2	2	2	31	1	2	3	0	257	3.1	3	2	1	34	38
99.	<i>Esretta</i>	2	2	2	31	1	2	2	0	231	3.2	3	2	1	62	64
99.	<i>Casmerodius</i>	2	2	2	31	1	2	3	0	493	3.1	3	2	1	52	55
99.	<i>Eudocimus</i>	2	2	2	31	1	2	3	0	462	2.6	3	2	1	14	18
11.	<i>Porphyrrio</i>	2	3	1	44	2	3	1	0	302	6.0	1	2	4	231	242
83.	<i>Gallinula</i>	2	1	1	42	2	3	1	0	417	6.2	1	2	4	498	560
52.	<i>Rallus</i>	2	2	1	40	1	2	2	0	198	10.1	1	2	1	447	490
45.	<i>Pluvialis</i>	2	2	1	67	1	3	2	0	353	4.0	1	2	1	39	40
46.	<i>Charadrius</i>	2	2	1	58	1	3	2	0	69	3.7	1	2	1	46	49
38.	<i>Bartramia</i>	2	1	1	47	1	3	2	2	257	4.0	1	2	1	377	400
7.	<i>Bartramia</i>	2	1	1	45	1	1	2	1	257	4.0	1	2	1	101	104
46.	<i>Numenius</i>	2	2	1	58	1	3	2	0	535	3.3	1	2	1	40	46
46.	<i>Calidris</i>	2	2	1	58	1	3	2	0	66	3.9	1	2	1	176	190
46.	<i>Calidris</i>	2	2	1	58	1	3	2	0	148	3.9	1	2	1	50	51
46.	<i>Micropalama</i>	2	2	1	58	1	3	2	0	118	3.9	1	2	1	138	144
46.	<i>Limosa</i>	2	2	1	58	1	3	2	0	416	3.8	1	2	1	39	42
66.	<i>Phalaropus</i>	2	2	1	75	1	3	2	0	76	3.9	1	1	3	42	46
118.	<i>Catharacta</i>	2	2	1	77	2	2	3	0	929	2.0	4	2	1	78	84
105.	<i>Larus</i>	2	2	1	52	1	3	2	0	1176	2.7	3	2	1	73	101
88.	<i>Larus</i>	2	2	1	26	1	3	2	0	408	2.8	3	2	1	433	482
46.	<i>Larus</i>	2	2	2	58	1	3	2	0	297	2.9	4	2	1	16	17
44.	<i>Larus</i>	2	2	1	33	1	3	2	0	942	2.8	3	2	1	118	177
87.	<i>Larus</i>	2	2	1	33	1	3	2	0	942	2.7	3	2	1	247	318
34.	<i>Larus</i>	2	2	1	52	1	2	2	0	787	2.7	3	2	1	141	144

6.	<i>Larus fuscus</i>	2	2	1	54	1	2	2	0	787	2.8	3	2	1	561	619
14.	<i>Larus fuscus</i>	2	2	1	52	1	3	2	0	787	2.7	3	2	1	458	533
77.	<i>Larus argentatus</i>	2	2	1	44	1	2	2	0	844	2.5	3	2	1	176	196
47.	<i>Larus argentatus</i>	2	2	1	42	1	3	2	0	844	2.8	3	2	1	1726	2182
34.	<i>Larus argentatus</i>	2	2	1	52	1	2	2	0	844	2.8	3	2	1	392	437
18.	<i>Larus argentatus</i>	2	2	1	53	1	3	1	0	844		3	2	1	236	284
6.	<i>Larus argentatus</i>	2	2	1	54	1	2	2	0	844	2.6	3	2	1	230	282
65.	<i>Rissa tridactyla</i>	2	2	1	47	1	3	2	0	493	1.9	3	2	1	146	157
94.	<i>Sterna caspia</i>	2	2	1	60	1	3	2	0	679	2.2	3	2	1	678	720
37.	<i>Sterna paradisaea</i>	2	2	1	46	1	2	2	0	176	1.4	3	2	1	197	251
2.	<i>Anous tenuirostris</i>	2	2	1	8	2	2	2	0	233	1.0	3	2	1	178	212
60.	<i>Alca torda</i>	2	2	1	52	1	3	3	0	844	1.0	3	2	1	160	189
48.	<i>Zenaidura macroura</i>	2	1	2	39	1	1	1	1	71		2	2	1	46	50
68.	<i>Columba palumbus</i>	2	1	2	52	1	2	1	0	193	1.8	2	2	1	990	1000
102.	<i>Crotophaga sulcirostris</i>	2	1	2	10	1	3	2	0	93		1	2	4	435	500
75.	<i>Dacelo sisas</i>	2	1	3	37	2	3	2	0	280	2.7	1	2	4	33	46
59.	<i>Phoeniculus porphyreus</i>	2	1	3	0	3	2	6		54	3.2	1	1	4	22	32
58.	<i>Picoides borealis</i>	2	1	3	30	1	3	2	0	41	3.3	1	2	4	19	20
85.	<i>Tyrannus tyrannus</i>	1	1	2	42	1	3	2	1	41		1	1	1	20	27
113.	<i>Sayornis phoebe</i>	1	1	2	38	1	3	2	1	22	4.7	1	1	1	621	653
85.	<i>Sayornis phoebe</i>	1	1	2	42	1	3	2	0	22		1	1	1	217	223
48.	<i>Sayornis phoebe</i>	1	1	3	39	1	1	2	1	22		1	1	1	129	157
15.	<i>Alauda arvensis</i>	1	1	1	54	1	2	1	0	36	3.7	1	1	1	216	220
103.	<i>Eremophila alpestris</i>	1	1	1	45	1	3	1	10	31	3.1	1	1	1	41	43
98.	<i>Eremophila alpestris</i>	1	1	1	70	1	2	1	0	31	4.0	1	1	1	23	24
114.	<i>Iridoprocne bicolor</i>	1	1	3	45	1	1	2	5	17	6.1	4	2	1	358	362
78.	<i>Iridoprocne bicolor</i>	1	1	3	47	1	2	2	0	17	5.6	2	2	1	113	130
63.	<i>Iridoprocne bicolor</i>	1	1	3	42	1	1	2	0	17	4.6	2	2	1	564	620
27.	<i>Petrochelidon pyrrhonota</i>	1	1	3	37	1	3	2	2	21	3.3	3	2	1	189	225
48.	<i>Progne subis</i>	1	1	3	39	1	1	2	1	36		3	2	1	30	41
21.	<i>Corvus brachyrhynchos</i>	1	1	2	38	1	1	1	0	181	4.4	4	1	1	68	77
117.	<i>Aphelocoma coerulescens</i>	1	1	2	28	1	3	2	0	59	3.2	1	1	4	195	211
53.	<i>Parus major</i>	1	1	3	51	1	2	2	0	17	9.0	1	1	1	5833	6312
26.	<i>Parus major</i>	1	1	3	52	1	2	2	0	17	11.5	1	1	1	1180	1271
26.	<i>Parus caeruleus</i>	1	1	3	52	1	2	2	0	11	11.7	1	1	1	952	1020
53.	<i>Parus caeruleus</i>	1	1	3	51	1	2	2	0	11	9.0	1	1	1	5948	6447
53.	<i>Parus ater</i>	1	1	3	51	1	2	2	0	11	10.5	1	1	1	2653	2814
13.	<i>Certhia familiaris</i>	1	1	2	43	1	3	2	1	11	5.0	1	1	1	56	57
1.	<i>Campylorhynchus brunneicapillus</i>	1	1	2	32	1	2	2	2	38	3.4	1	1	1	90	104
48.	<i>Troglodytes aedon</i>	1	1	3	39	1	1	2	1	14		1	1	2	5409	5816
106.	<i>Cistothorus palustris</i>	1	3	2	48	1	2	2	0	12	4.9	1	1	3	120	131
55.	<i>Mimus polyglottos</i>	1	1	2	37	1	2	2	0	42	3.9	1	1	1	453	490
48.	<i>Dumetella carolinensis</i>	1	1	2	39	1	1	2	1	35		1	1	1	179	195
28.	<i>Nesomimus parvulus</i>	1	1	2	0	3	2	3		42	3.9	1	1	4	64	74
28.	<i>Nesomimus longicaudatus</i>	1	1	2	0	3	2			42	3.9	1	1	1	341	345
85.	<i>Turdus migratorius</i>	1	1	2	42	1	3	2	0	59		1	1	1	78	83
85.	<i>Turdus migratorius</i>	1	1	2	42	1	3	2	1	59		1	1	1	43	48
43.	<i>Turdus migratorius</i>	1	1	2	43	1	1	2	0	59	3.4	1	1	1	157	175
48.	<i>Turdus migratorius</i>	1	1	2	39	1	1	2	1	59		1	1	1	563	655
92.	<i>Turdus merula</i>	1	1	2	52	1	2	2	0	71	4.0	1	1	1	256	285
62.	<i>Hylocichla mustelina</i>	1	1	2	39	1	3	2	0	47	3.3	1	1	1	142	150
115.	<i>Sialia sialis</i>	1	1	3	28	1	3	2	0	28	4.4	1	2	1	861	1064
100.	<i>Sialia sialis</i>	1	1	3	35	1	1	2	0	28	4.1	1	2	1	213	237
74.	<i>Sialia sialis</i>	1	1	3	34	1	2	2	0	28	4.2	1	2	1	258	327
69.	<i>Sialia sialis</i>	1	1	3	40	1	1	2	0	28	4.5	1	2	1	875	980
54.	<i>Sialia sialis</i>	1	1	3	37	1	1	2	0	28	4.4	1	2	1	576	647

48.	<i>Sialia sialis</i>	1	1	3	39	1	1	2	1	28		1	2	1	279	332
25.	<i>Turdoides striatus</i>	1	1	2	29	1	3	2	1	40	3.8	1	1	4	60	70
76.	<i>Ficedula hypoleuca</i>	1	1	3	63	1	3	2	0	17	6.1	1	1	3	556	609
56.	<i>Motacilla alba</i>	1	1	3	62	1	3	2	0	25	5.7	1	2	1	929	974
101.	<i>Motacilla cinerea</i>	1	1	1	52	1	3	2	0	19	4.9	1	2	1	232	246
79.	<i>Anthus pratensis</i>	1	1	1	47	1	3	2	8	22	4.4	1	1	1	169	175
104.	<i>Anthus spinoletta</i>	1	1	1	45	1	3	1	10	25	4.7	1	1	1	286	333
85.	<i>Bombycilla cedrorum</i>	1	1	2	42	1	3	1	1	29		4		1	125	166
81.	<i>Bombycilla cedrorum</i>	1	1	2	42	1	2	1	1	29	4.1	2	1	1	189	245
48.	<i>Bombycilla cedrorum</i>	1	1	2	39	1	1	1	1	29		4		1	34	39
51.	<i>Sturnus vulgaris</i>	1	1	3	63	1	3	1	0	69	5.1	2	2	1	680	782
10.	<i>Sturnus vulgaris</i>	1	1	3	44	1	2	2	2	69	5.5	2	2	1	2186	2478
30.	<i>Corvinella corvina</i>	1	1	2	5	1	3	2	0	55	3.8	1	1	4	204	258
109.	<i>Protonotaria citrea</i>	1	1	3	43	1	1	2	1	21	5.0	1	1	1	159	193
109.	<i>Protonotaria citrea</i>	1	1	3	36	1	1	2	1	21	4.5	1	1	1	100	113
32.	<i>Seiurus aurocapillus</i>	1	1	1	42	1	1	2	1	24	4.7	1	1	2	102	108
48.	<i>Dendroica petechia</i>	1	1	1	39	1	1	2	1	15		1	1	1	24	25
17.	<i>Manorina melanocephala</i>	1	1	2	15	2	3	2	1	38	2.6	4	1	4	37	44
112.	<i>Quelea quelea</i>	1	1	2	11	1	2	1	2	15	2.9	3	2	1	588	612
86.	<i>Passer domesticus</i>	1	1	3	35	1	3	1	0	31	4.2	4	2	4	758	838
89.	<i>Passer domesticus</i>	1	1	3	52	1	2	1	0	31	4.0	4	2	1	2568	2930
89.	<i>Passer montanus</i>	1	1	3	52	1	2	1	1	19	5.1	4	2	1	1065	1145
90.	<i>Passer melanurus</i>	1	1	3	30	2	3	1		31	3.7	4		1	451	492
84.	<i>Sturnella magna</i>	1	1	1	37	1	3	2	0	59	4.2	1	1	1	243	254
42.	<i>Quiscalus quiscula</i>	1	1	2	42	1	3	1	1	65	4.7	4	1	1	410	451
116.	<i>Dolichonyx oryzivorus</i>	1	1	2	43	1	3	2	4	29	5.4	1	1	3	537	587
33.	<i>Spiza americana</i>	1	1	1	38	1	3	2	1	28	3.9	1	1	3	55	67
61.	<i>Spiza americana</i>	1	1	1	39	1	2	2	1	28	3.8	1	1	3	14	19
31.	<i>Spiza americana</i>	1	1	1	40	1	1	2	1	28	4.0	1	1	3	34	44
119.	<i>Aselaius phoeniceus</i>	1	3	2	43	1	2	1	1	44	3.3	4	1	3	159	169
8.	<i>Aselaius phoeniceus</i>	1	3	2	40	1	3	1	0	42	3.4	2	1	3	760	839
91.	<i>Aselaius phoeniceus</i>	1	1	2	42	1	1	1	0	42		4	1	3	823	860
119.	<i>Xanthocephalus xanthocephalus</i>	1	3	2	43	1	2	1	1	42	3.2	4	1	3	824	873
80.	<i>Molothrus aeneus</i>	1	1	2	43	1	2	1	1	39	4.9	3	1	1	209	227
96.	<i>Carpodacus erythrinus</i>	1	1	2	62	1	3	1	0	24	5.1	1	1	1	386	414
72.	<i>Frinsilla coelebs</i>	1	1	2	52	1	2	1	0	22	4.3	1	1	1	1288	1403
46.	<i>Cardualis flammea</i>	1	1	2	58	1	3	1	0	15	3.8	2	1	1	38	39
39.	<i>Spinus tristis</i>	1	1	2	41	1	3	1	1	12	5.0	2	1	1	241	267
73.	<i>Melospiza melodia</i>	1	1	2	41	1	1	1	1	33	5.9	1	1	1	510	559
48.	<i>Melospiza melodia</i>	1	1	2	39	1	1	1	1	33		1	1	1	173	184
46.	<i>Passerculus sandwichensis</i>	1	1	1	58	1	3	1	0	22	4.8	1	2	1	73	76
16.	<i>Passerculus sandwichensis</i>	1	1	1	44	1	3	1	0	22	4.0	1	2	1	638	708
50.	<i>Spizella pallida</i>	1	1	2	49	1	3	1	2	15		1	2	1	285	312
110.	<i>Spizella passerina</i>	1	1	2	43	1	2	1	1	16	3.2	1	1	1	185	195
85.	<i>Spizella passerina</i>	1	1	2	42	1	3	1	1	16		1	1	1	103	114
48.	<i>Spizella passerina</i>	1	1	2	39	1	1	1	1	16		1	1	1	76	92
46.	<i>Spizella arborea</i>	1	1	1	58	1	3	1	0	19	4.7	1	1	1	46	51
4.	<i>Spizella arborea</i>	1	1	1	59	1	1	1	0	19	4.9	1	1	1	61	66
108.	<i>Spizella pusilla</i>	1	1	2	43	1	1	1	0	16	3.5	1	1	1	67	69
5.	<i>Spizella pusilla</i>	1	1	1	40	1	3	1	1	16	2.7	1	1	1	137	145
46.	<i>Zonotrichia querula</i>	1	1	1	58	1	3	1	0	33	3.9	1	1	1	83	84
67.	<i>Zonotrichia leucophrys</i>	1	1	1	38	1	3	1	9	28	3.9	1	1	1	263	293
46.	<i>Zonotrichia leucophrys</i>	1	1	1	58	1	3	1	0	28	3.8	1	1	1	122	124
19.	<i>Calcarius lapponicus</i>	1	1	1	73	1	2	1	0	25	4.6	1	1	2	49	55
12.	<i>Calcarius lapponicus</i>	1	1	1	71	1	3	1	0	25	5.1	1	1	2	865	930
46.	<i>Calcarius lapponicus</i>	1	1	1	58	1	3	1	0	25	4.5	1	1	2	65	67

36. <i>Calcarius ornatus</i>	1	1	1	50	1	1	1	0	19	4.8	1	1	1	35	38
46. <i>Calcarius pictus</i>	1	1	1	58	1	3	1	0	25	3.9	1	1	1	107	111
97. <i>Plectrophenax nivalis</i>	1	1	1	65	1	2	1	0	31	5.4	1	1	1	72	80

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1. Reference (see list)
2. Species
3. Taxon: 1=passerine, 2=non-passerine
4. Habitat: 1=terrestrial, 2=aquatic, 3=marshy (lumped with 2)
5. Nest location: 1=ground, 2=trees and shrubs, 3=cavity
6. Latitude
7. Hemisphere: 1=north, 2=south
8. Year of study: 1=<1946, 2=1946-1965, 3=>1965
9. Food: 1=herbivorous, 2=insectivorous or primary carnivore, 3=secondary carnivore
10. Altitude (/1000 ft)
11. Estimated average egg size (cc)
12. Average clutch size
13. Spacing pattern: 1=type A territorial, 2=type B territorial, 3=colonial, 4=variable (B and/or colonial) (lumped with 2)
14. Incubation: 1=female only, 2=both
15. Mating pattern: 1=monogamous, 2=rare polygyny (lumped with 1), 3=common polygyny, 4=cooperative breeder, 5=other (not included)
16. Number of eggs hatched
17. Number of eggs laid

For further information contact:

Walter D. Koenig  
Hastings Reservation  
University of California  
Star Route Box 80  
Carmel Valley, California 93924 USA

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