Appendix H. Numbers of invertebrates in samples during June 1992, Prudhoe Bay, Alaska.

Time Period	Water Body	Site Number	Wetland Classification	Vegetation Sampled	Plecoptera	Trichoptera	Gastropoda	TOTAL
June 26-27, 1992	GC2a Pond	1	Shallow- *Carex*	*C. aquatilis*	20	7	0	27
June 26-27, 1992	GC2a Pond			*C. aquatilis*	6	8	2	16
June 26-27, 1992	GC2a Pond			*C. aquatilis*	18	13	3	34
June 26-27, 1992	GC2a Pond			*C. aquatilis*	4	9	0	13
June 26-27, 1992	GC2a Pond			*C. aquatilis*	16	5	1	22
June 26-27, 1992	GC2a Pond			*C. aquatilis*	20	12	2	34
June 26-27, 1992	P-Pad Pond	3	Shallow- *Carex*	*C. aquatilis*	23	0	3	26
June 26-27, 1992	P-Pad Pond			*C. aquatilis*	15	0	2	17
June 26-27, 1992	P-Pad Pond			*C. aquatilis*	5	0	0	5
June 26-27, 1992	P-Pad Pond			*C. aquatilis*	22	0	12	34
June 26-27, 1992	P-Pad Pond			*C. aquatilis*	17	0	13	30
June 26-27, 1992	P-Pad Pond			*C. aquatilis*	22	1	16	39
June 26-27, 1992	Gasline Pond	5	Shallow-*Arctophila*	*C. aquatilis*	1	17	15	33
June 26-27, 1992	Gasline Pond			*C. aquatilis*	9	11	21	41
June 26-27, 1992	Gasline Pond			*C. aquatilis*	3	13	3	19
June 26-27, 1992	Gasline Pond			*A. fulva*	18	0	4	22
June 26-27, 1992	Gasline Pond			*A. fulva*	45	0	0	45
June 26-27, 1992	Gasline Pond			*A. fulva*	32	0	3	35
June 26-27, 1992	WBS Pond	7	Shallow- *Arctophila*	*A. fulva*	3	8	0	11
June 26-27, 1992	WBS Pond			*A. fulva*	9	10	0	19
June 26-27, 1992	WBS Pond			*A. fulva*	14	13	0	27
June 26-27, 1992	WBS Pond			*A. fulva*	30	13	0	43
June 26-27, 1992	WBS Pond			*A. fulva*	31	7	0	38
June 26-27, 1992	WBS Pond			*A. fulva*	20	18	0	38
June 26-27, 1992	GC2a Imp	2	Shallow- *Carex*	*C. aquatilis*	0	3	10	13
June 26-27, 1992	GC2a Imp			*C. aquatilis*	0	5	14	19
June 26-27, 1992	GC2a Imp			*C. aquatilis*	0	5	22	27
June 26-27, 1992	GC2a Imp			*C. aquatilis*	0	13	0	13
June 26-27, 1992	GC2a Imp			*C. aquatilis*	0	3	0	3
June 26-27, 1992	GC2a Imp			*C. aquatilis*	0	11	0	11
June 26-27, 1992	P-Pad Imp	4	Shallow- *Carex*	*C. aquatilis*	6	0	55	61
June 26-27, 1992	P-Pad Imp			*C. aquatilis*	1	0	18	19
June 26-27, 1992	P-Pad Imp			*C. aquatilis*	0	0	34	34
June 26-27, 1992	P-Pad Imp			*C. aquatilis*	0	0	3	3
June 26-27, 1992	P-Pad Imp			*C. aquatilis*	0	0	7	7
June 26-27, 1992	P-Pad Imp			*C. aquatilis*	1	6	23	30
June 26-27, 1992	Gasline Imp	6	Shallow-*Arctophila*	*C. aquatilis*	1	23	8	32
June 26-27, 1992	Gasline Imp			*C. aquatilis*	0	6	2	8
June 26-27, 1992	Gasline Imp			*C. aquatilis*	0	21	13	34
June 26-27, 1992	Gasline Imp			*A. fulva*	2	0	11	13
June 26-27, 1992	Gasline Imp			*A. fulva*	8	6	20	34
June 26-27, 1992	Gasline Imp			*A. fulva*	2	10	10	22
June 26-27, 1992	WBS Imp	8	Shallow- *Arctophila*	*C. aquatilis*	65	26	25	116
June 26-27, 1992	WBS Imp			*C. aquatilis*	33	17	12	62
June 26-27, 1992	WBS Imp			*C. aquatilis*	9	0	3	12
June 26-27, 1992	WBS Imp			*A. fulva*	146	13	2	161
June 26-27, 1992	WBS Imp			*A. fulva*	8	20	0	28
June 26-27, 1992	WBS Imp			*A. fulva*	30	33	20	83
	All Ponds	**(n=4)**	**Mean ± SE**		**16.8 ± 0.9**	**6.9 ± 2.5**	**4.2 ± 2.1**	**27.8 ± 1.9**
	All Imps	**(n=4)**	**Mean ± SE**		**13.0 ± 11.9**	**9.2 ± 3.6**	**13.0 ± 3.5**	**35.2 ± 14.2**
	All Sites	**(n=8)**	**Mean ± SE**		**14.9 ± 5.6**	**8.0 ± 2.1**	**8.6 ± 2.5**	**31.5 ± 6.8**

Appendix I. Numbers of invertebrates in samples during July 1992, Prudhoe Bay, Alaska.

Time Period	Water Body	Site Number	Wetland Classification	Vegetation Sampled	Plecoptera	Trichoptera	Gastropoda	TOTAL
July 15, 1992	GC2a Pond	1	Shallow- *Carex*	*C. aquatilis*	11	3	1	15
July 15, 1992	GC2a Pond			*C. aquatilis*	18	3	2	23
July 15, 1992	GC2a Pond			*C. aquatilis*	18	11	3	32
July 15, 1992	GC2a Pond			*C. aquatilis*	18	23	3	44
July 15, 1992	GC2a Pond			*C. aquatilis*	18	16	18	52
July 15, 1992	GC2a Pond			*C. aquatilis*	4	16	2	22
July 15, 1992	P-Pad Pond	3	Shallow- *Carex*	*C. aquatilis*	0	0	5	5
July 15, 1992	P-Pad Pond			*C. aquatilis*	0	3	9	12
July 15, 1992	P-Pad Pond			*C. aquatilis*	0	1	4	5
July 15, 1992	P-Pad Pond			*C. aquatilis*	0	0	11	11
July 15, 1992	P-Pad Pond			*C. aquatilis*	0	0	1	1
July 15, 1992	P-Pad Pond			*C. aquatilis*	0	1	4	5
July 15, 1992	Gasline Pond	5	Shallow-*Arctophila*	*C. aquatilis*	17	7	9	33
July 15, 1992	Gasline Pond			*C. aquatilis*	26	4	3	33
July 15, 1992	Gasline Pond			*C. aquatilis*	19	5	12	36
July 15, 1992	Gasline Pond			*A. fulva*	15	2	6	23
July 15, 1992	Gasline Pond			*A. fulva*	87	17	17	121
July 15, 1992	Gasline Pond			*A. fulva*	23	5	13	41
July 15, 1992	WBS Pond	7	Shallow- *Arctophila*	*A. fulva*	1	12	19	32
July 15, 1992	WBS Pond			*A. fulva*	4	15	19	38
July 15, 1992	WBS Pond			*A. fulva*	5	18	52	75
July 15, 1992	WBS Pond			*A. fulva*	2	9	18	29
July 15, 1992	WBS Pond			*A. fulva*	9	2	20	31
July 15, 1992	WBS Pond			*A. fulva*	21	4	14	39
July 15, 1992	GC2a Imp	2	Shallow-*Carex*	*C. aquatilis*	1	22	23	46
July 15, 1992	GC2a Imp			*C. aquatilis*	0	17	23	40
July 15, 1992	GC2a Imp			*C. aquatilis*	2	8	20	30
July 15, 1992	GC2a Imp			*C. aquatilis*	0	35	20	55
July 15, 1992	GC2a Imp			*C. aquatilis*	0	17	6	23
July 15, 1992	GC2a Imp			*C. aquatilis*	1	25	9	35
July 15, 1992	P-Pad Imp	4	Shallow-*Carex*	*C. aquatilis*	5	9	14	28
July 15, 1992	P-Pad Imp			*C. aquatilis*	3	16	13	32
July 15, 1992	P-Pad Imp			*C. aquatilis*	16	8	15	39
July 15, 1992	P-Pad Imp			*C. aquatilis*	1	10	24	35
July 15, 1992	P-Pad Imp			*C. aquatilis*	0	6	24	30
July 15, 1992	P-Pad Imp			*C. aquatilis*	6	13	17	36
July 15, 1992	Gasline Imp	6	Shallow-*Arctophila*	*C. aquatilis*	29	13	0	42
July 15, 1992	Gasline Imp			*C. aquatilis*	20	11	0	31
July 15, 1992	Gasline Imp			*C. aquatilis*	33	19	0	52
July 15, 1992	Gasline Imp			*A. fulva*	36	37	0	73
July 15, 1992	Gasline Imp			*A. fulva*	31	39	0	70
July 15, 1992	Gasline Imp			*A. fulva*	37	21	0	58
July 15, 1992	WBS Imp	8	Shallow-*Arctophila*	*C. aquatilis*	28	42	2	72
July 15, 1992	WBS Imp			*C. aquatilis*	10	45	10	65
July 15, 1992	WBS Imp			*C. aquatilis*	67	61	9	137
July 15, 1992	WBS Imp			*A. fulva*	65	8	2	75
July 15, 1992	WBS Imp			*A. fulva*	62	86	1	149
July 15, 1992	WBS Imp			*A. fulva*	46	5	2	53
	All Ponds	**(n=4)**	**Mean ± SE**		**13.2 ± 6.7**	**7.4 ± 2.5**	**11.0 ± 4.4**	**31.6 ± 9.0**
	All Imps	**(n=4)**	**Mean ± SE**		**20.8 ± 10.8**	**23.9 ± 6.4**	**9.7 ± 4.5**	**54.4 ± 13.3**
	All Sites	**(n=8)**	**Mean ± SE**		**17.0 ± 6.1**	**15.6 ± 4.5**	**10.4 ± 2.9**	**43.0 ± 10.0**

Appendix J. Numbers of invertebrates in samples during August 1992, Prudhoe Bay, Alaska.

Time Period	Water Body	Site Number	Wetland Classification	Vegetation Sampled	Plecoptera	Trichoptera	Gastropoda	TOTAL
August 1, 1992	GC2a Pond	1	Shallow-*Carex*	*C. aquatilis*	24	3	3	30
August 1, 1992	GC2a Pond			*C. aquatilis*	17	3	1	21
August 1, 1992	GC2a Pond			*C. aquatilis*	13	3	6	22
August 1, 1992	GC2a Pond			*C. aquatilis*	77	13	9	99
August 1, 1992	GC2a Pond			*C. aquatilis*	21	15	8	44
August 1, 1992	GC2a Pond			*C. aquatilis*	33	14	4	51
August 1, 1992	P-Pad Pond	3	Shallow-*Carex*	*C. aquatilis*	0	2	6	8
August 1, 1992	P-Pad Pond			*C. aquatilis*	0	11	8	19
August 1, 1992	P-Pad Pond			*C. aquatilis*	0	1	1	2
August 1, 1992	P-Pad Pond			*C. aquatilis*	0	5	1	6
August 1, 1992	P-Pad Pond			*C. aquatilis*	0	2	7	9
August 1, 1992	P-Pad Pond			*C. aquatilis*	0	2	3	5
August 1, 1992	Gasline Pond	5	Shallow-*Arctophila*	*C. aquatilis*	99	14	34	147
August 1, 1992	Gasline Pond			*C. aquatilis*	88	7	61	156
August 1, 1992	Gasline Pond			*C. aquatilis*	53	6	30	89
August 1, 1992	Gasline Pond			*A. fulva*	20	20	19	59
August 1, 1992	Gasline Pond			*A. fulva*	26	8	58	92
August 1, 1992	Gasline Pond			*A. fulva*	14	5	27	46
August 1, 1992	WBS Pond	7	Shallow-*Arctophila*	*A. fulva*	4	2	11	17
August 1, 1992	WBS Pond			*A. fulva*	5	1	12	18
August 1, 1992	WBS Pond			*A. fulva*	8	0	20	28
August 1, 1992	WBS Pond			*A. fulva*	6	0	16	22
August 1, 1992	WBS Pond			*A. fulva*	18	3	9	30
August 1, 1992	WBS Pond			*A. fulva*	14	1	21	36
August 1, 1992	GC2a Imp	2	Shallow-*Carex*	*C. aquatilis*	9	6	40	55
August 1, 1992	GC2a Imp			*C. aquatilis*	3	0	44	47
August 1, 1992	GC2a Imp			*C. aquatilis*	10	5	63	78
August 1, 1992	GC2a Imp			*C. aquatilis*	6	0	6	12
August 1, 1992	GC2a Imp			*C. aquatilis*	5	0	7	12
August 1, 1992	GC2a Imp			*C. aquatilis*	6	1	3	10
August 1, 1992	P-Pad Imp	4	Shallow-*Carex*	*C. aquatilis*	15	7	15	37
August 1, 1992	P-Pad Imp			*C. aquatilis*	8	20	9	37
August 1, 1992	P-Pad Imp			*C. aquatilis*	14	10	17	41
August 1, 1992	P-Pad Imp			*C. aquatilis*	11	3	6	20
August 1, 1992	P-Pad Imp			*C. aquatilis*	24	2	8	34
August 1, 1992	P-Pad Imp			*C. aquatilis*	51	3	14	68
August 1, 1992	Gasline Imp	6	Shallow-*Arctophila*	*C. aquatilis*	40	11	0	51
August 1, 1992	Gasline Imp			*C. aquatilis*	53	19	0	72
August 1, 1992	Gasline Imp			*C. aquatilis*	66	14	0	80
August 1, 1992	Gasline Imp			*A. fulva*	37	0	0	37
August 1, 1992	Gasline Imp			*A. fulva*	21	0	0	21
August 1, 1992	Gasline Imp			*A. fulva*	63	14	0	77
August 1, 1992	WBS Imp	8	Shallow-*Arctophila*	*C. aquatilis*	184	55	12	251
August 1, 1992	WBS Imp			*C. aquatilis*	178	15	19	212
August 1, 1992	WBS Imp			*C. aquatilis*	82	23	11	116
August 1, 1992	WBS Imp			*A. fulva*	80	6	5	91
August 1, 1992	WBS Imp			*A. fulva*	110	11	4	125
August 1, 1992	WBS Imp			*A. fulva*	107	7	3	117
	All Ponds	**(n=4)**	**Mean ± SE**		**22.5 ± 11.2**	**5.9 ± 2.1**	**15.6 ± 7.9**	**44.0 ± 19.5**
	All Imps	**(n=4)**	**Mean ± SE**		**49.3 ± 26.1**	**9.7 ± 3.7**	**11.9 ± 5.7**	**70.9 ± 27.4**
	All Sites	**(n=8)**	**Mean ± SE**		**35.9 ± 14.1**	**7.8 ± 2.1**	**13.8 ± 4.6**	**57.4 ± 16.4**

Appendix K. Wetland classifications for water bodies used to determine bird abundance in 1992, Prudhoe Bay, Alaska.

Site No.	Impoundment	Bergman Class	Site No.	Pond	Bergman Class
1	Frontier	Shallow-ARFU	2	C-Pad	Shallow-CAAQ
3	E-Pad	Shallow-CAAQ	4	E-Pad	Shallow-CAAQ
5	West Dock	Shallow-ARFU	6	West Dock	Deep-ARFU
7	West Beach State	Shallow-ARFU	8	West Beach State	Shallow-ARFU
9	DSLI	Shallow-ARFU	10	DSLI	Shallow-ARFU
11	NGI	Shallow-ARFU	12	NGI	Shallow-ARFU
13	Gasline	Shallow-ARFU	14	Gasline	Shallow-ARFU
15	DS7a	Shallow-CAAQ	16	DS7a	Shallow-ARFU
17	DS7b	Shallow-CAAQ	18	DS7b	Shallow-ARFU
19	X-Pad	Deep-ARFU	20	A-Pad	Deep-ARFU
21	P-Pad	Shallow-CAAQ	22	P-Pad	Shallow-CAAQ
23	GC2a	Shallow-CAAQ	24	GC2a	Shallow-CAAQ
25	GC2b	Shallow-ARFU	26	GC2b	Deep-ARFU
27	H-Pad	Shallow-CAAQ	28	H-Pad	Shallow-CAAQ
29	CC2	Shallow-CAAQ	30	CC2	Shallow-CAAQ

Appendix L. Water body characteristics, nest phenology, and fate of eggs and young at natural ponds in 1992, Prudhoe Bay, Alaska.

Nest Number	Water Body Type	Water Body Size (ha)	Approx. Clutch Initiation Date	Nest Fate (Approx. Date of Nest Failure)	Approx. Hatch Date	Number of Young at Hatch	Number of Young Lost (Days Since Hatch)	Number of Days Since Hatch Family First Observed Away From Nest Water Body (Date)	Number of Young in Families Active at End of Study (Age of Young)
6	Shallow ARFU	2.90	21 Jun	Hatched	17 Jul	1	1 (12)	10 Days (27 Jul)	–
7	Shallow CAAQ	1.23	Unknown	Failed (5 Jul)	–	–	–	–	–
9	Shallow ARFU	2.56	23 Jun	Hatched	19 Jul	1	0	11 Days (30 Jul)	1 (16 Days)
10	Shallow ARFU	1.95	22 Jun	Hatched	18 Jul	2	2 (3)	–	–
13	Shallow ARFU	7.25	27 Jun*	Hatched	25 Jul	2	0	–	2 (9 Days)
14	Shallow ARFU	2.23	Unknown	Failed (5 Jul)	–	–	–	–	–
15	Shallow ARFU	1.67	Unknown	Failed (7 Jul)	–	–	–	–	–
17	Shallow ARFU	1.00	21 Jun	Hatched	17 Jul	1	0	4 Days (21 Jul)	1 (16 Days)
19	Shallow ARFU	5.57	Unknown	Failed (17 Jul)	–	–	–	–	–
20	Shallow CAAQ	1.51	Unknown	Failed (8 Jul)	–	–	–	–	–
22	Shallow ARFU	2.23	24 Jun	Hatched	20 Jul	1	1 (14)	–	
23	Shallow CAAQ	1.11	20 Jun	Hatched	16 Jul	2	0	5 Days (21 Jul)	2 (17 Days)
24	Shallow ARFU	6.30	23 Jun	Hatched	19 Jul	2	0	–	2 (16 Days)
26	Shallow ARFU	1.51	19 Jun	Hatched	15 Jul	1	0	10 Days (25 Jul)	1 (19 Days)
28	Shallow ARFU	3.29	24 Jun	Hatched	20 Jul	1	0	1 Day (21 Jul)	1 (14 Days)
30	Deep ARFU	2.04	24 Jun*	Failed (6 Jul)	–	–	–	–	–
31	Shallow CAAQ	0.39	21 Jun	Hatched	17 Jul	2	1 (16)	4 Days (21 Jul)	1 (18 Days)
32	Deep ARFU	4.18	Unknown	Failed (6 Jul)	–	–	–	–	–
33	Shallow ARFU	3.40	24 Jun	Hatched	20 Jul	2	0	–	2 (14 Days)
34	Shallow ARFU	5.57	Unknown	Failed (16 Jul)	–	–	–	–	–
35	Shallow ARFU	1.02	18 Jun	Hatched	14 Jul	1	0	7 Days (21 Jul)	1 (20 Days)
41	Shallow ARFU	4.32	Unknown	Failed (12 Jul)	–	–	–	–	–
45	Deep ARFU	5.07	11 Jul*	Failed (27 Jul)	–	–	–	–	–
47	Unknown	Unknown	Unknown	Hatched	Unknown	1	0	–	1 (Unknown)

*Clutch initiation date based on direct observation

Appendix M. Water body characteristics, nest phenology, and fate of eggs and young at impoundments in 1992, Prudhoe Bay, Alaska.

Nest Number	Water Body Type	Water Body Size (ha)	Approx. Clutch Initiation Date	Nest Fate (Approx. Date of Nest Failure)	Approx. Hatch Date	Number of Young at Hatch	Number of Young Lost (Days Since Hatch)	Number of Days Since Hatch Family First Observed Away From Nest Water Body (Date)	Number of Young in Families Active at End of Study (Age of Young)
1	Shallow ARFU	5.57	2 Jul	Hatched	28 Jul	1	0	–	1 (7 Days)
2	Shallow ARFU	8.19	24 Jun	Hatched	20 Jul	2	1 (1) and 1 (8)	–	–
3	Shallow ARFU	2.23	Unknown	Failed (11 Jul)	–	–	–	–	–
4	Shallow CAAQ	1.67	Unknown	Failed (19 Jul)	–	–	–	–	–
5	Shallow CAAQ	2.32	21 Jun*	Failed (7 Jul)	–	–	–	–	–
8	Shallow CAAQ	10.40	20 Jun	Hatched	16 Jul	2	1 (2)	5 Days (21 Jul)	1 (18 Days)
11	Shallow ARFU	1.78	Unknown	Failed (7 Jul)	–	–	–	–	–
12	Shallow ARFU	4.09	24 Jun*	Hatched	21 Jul	1	0	–	1 (13 Days)
18	Deep ARFU	57.47	21 Jun	Hatched	17 Jul	2	1 (4) and 1 (5)	–	–
21	Deep ARFU	19.40	20 Jun	Hatched	16 Jul	1	0	–	1 (18 Days)
25	Shallow CAAQ	1.67	Unknown	Failed (9 Jul)	–	–	–	–	–
27	Shallow CAAQ	2.68	22 Jun*	Failed (11 Jul)	–	–	–	–	–
29	Shallow CAAQ	1.34	19 Jun	Hatched	15 Jul	2	0	13 Days (28 Jul)	2 (20 Days)
36	Shallow CAAQ	1.00	Unknown	Failed (10 Jul)	–	–	–	–	–
37	Shallow ARFU	0.84	24 Jun	Hatched	20 Jul	1	1 (3)	2 Days (22 Jul)	–
38	Shallow ARFU	10.71	23 Jun	Hatched	19 Jul	1	0	–	1 (15 Days)
39	Shallow CAAQ	1.06	Unknown	Failed (10 Jul)	–	–	–	–	–
40	Shallow ARFU	13.38	Unknown	Failed (12 Jul)	–	–	–	–	–
42	Shallow ARFU	42.20	26 Jun	Hatched	22 Jul	1	0	–	1 (13 Days)
43	Shallow ARFU	10.71	12 Jul	Failed (22 Jul)	–	–	–	–	–
44	Deep ARFU	17.84	13 Jul	Failed (26 Jul)	–	–	–	–	–
46	Shallow ARFU	42.20	Unknown	Hatched	Unknown	2	1 (Unknown)	–	1 (Unknown)

*Clutch initiation date based on direct observation

Appendix N. Average number of foraging bouts and average length of complete bouts by Pacific Loons on six natural ponds in 1992, Prudhoe Bay, Alaska.

Site Number	Site Type	Observation Date(s)	Number of 4-h Obs Periods (Total Min)	Average Number Of Foraging Bouts Per 4-h Period	Average Length Of "Complete" Foraging Bouts Per 4-h Period (n)
6	Pond	28 Jul	1 (240)	2	–
9	Pond	22, 24 Jul	2 (480)	1.5	105.5 min (2)
22	Pond	26, 27, 29 Jul	3 (720)	3	52.8 min (5)
24	Pond	26, 27 Jul	2 (480)	4.5	28.7 min (6)
33	Pond	22, 24 Jul	2 (480)	3.5	40.4 min (5)
35	Pond	3, 4 Aug	2 (480)	3.5	26.8 min (6)
		Mean ± SE (n=6)		3.0 ± 0.5	50.8 ± 13.5 min

Appendix O. Average number of foraging bouts and average length of complete bouts by Pacific Loons on six impoundments (Imp) in 1992, Prudhoe Bay, Alaska.

Site Number	Site Type	Observation Date(s)	Number of 4-h Obs Periods (Total Min)	Average Number Of Foraging Bouts Per 4-h Period	Average Length Of "Complete" Foraging Bouts Per 4-h Period (n)
2	Imp	28 Jul	1 (240)	3	75.5 min (2)
12	Imp	22, 24 Jul	2 (480)	2.5	42.0 min (4)
21	Imp	26, 27, 29 Jul	3 (720)	3	59.0 min (6)
29	Imp	22,24 Jul	2 (480)	1.5	96.5 min (2)
46	Imp	26, 27 Jul	2 (480)	2.5	100.0 min (3)
38	Imp	3, 4 Aug	2 (480)	2	95.5 min (2)
		Mean ± SE (n=6)		2.4 ± 0.3	78.1 ± 9.8 min

Appendix P. Foraging time, prey delivery rates, and estimated total prey deliveries by Pacific Loons on six natural ponds in 1992, Prudhoe Bay, Alaska.

Site Number	Site Type	Observation Date(s)	Number of 4-h Obs Periods (Total Min)	Average Time Adults Spent Feeding Chick(s) During 4-h Period (% of Total Feeding Time by 1 Ad and 2 Ad)	No. of Chicks	Approx. Age of Chick(s) On First Obs. Day	Chicks Seen Catching Prey Independently	Average Time Adult(s) Engaged in Other Behavior (% of Total)	Average Number of Prey Deliveries by Adults During 10-min Period (n)	Estimated Total Prey Deliveries byAdults During 4-h Period
6	Pond	28 Jul	1 (240)	63.0 min (43.3, 56.7)	1	11 Days	No	177 min	87.7 (3)	553.4
9	Pond	22, 24 Jul	2 (480)	116.5 min (67.4, 32.6)	1	3 Days	No	123.5 min	22.8 (6)	265.6
22	Pond	26, 27, 29 Jul	3 (720)	159.0 min (72.3, 27.7)	1	6 Days	No	81.0 min	32.1 (10)	510.4 + 3 (~5 cm long) fish
24	Pond	26, 27 Jul	2 (480)	132.0 min (17.8, 82.2)	2	7 Days	No	108.0 min	79.5 (10)	1049.4
33	Pond	22, 24 Jul	2 (480)	116.5 min (38.3, 61.7)	2	2 Days	No	123.5 min	76.9 (7)	895.9
35	Pond	3, 4 Aug	2 (480)	96.5 min (49.7, 50.3)	1	20 Days	Yes (Time Unknown)	143.5 min	74.2 (6)	716.0
			Mean ± SE (n=6)	113.9 ± 13.5 min				126.1 ± 13.5 min	62.2 ± 11.5	665.1 ± 117.8

Appendix Q. Foraging time, prey delivery rates, and estimated total prey deliveries by Pacific Loons on six impoundments (Imp) in 1992, Prudhoe Bay, Alaska.

Site Number	Site Type	Observation Date(s)	Number of 4-h Obs Periods (Total Min)	Average Time Adults Spent Feeding Chick(s) During 4-h Period (% of Total Feeding Time by 1 Ad and 2 Ad)	No. of Chicks	Approx. Age of Chick(s) On First Obs. Day	Chicks Seen Catching Prey Independently	Average Time Adult(s) Engaged in Other Behavior (% of Total)	Average Number of Prey Deliveries by Adults During 10-min Period (n)	Estimated Total Prey Deliveries byAdults During 4-h Period
2	Imp	28 Jul	1(240)	156.0 min (100, 0)	1	8 Days	No	84.0 min	28.7 (6)	447.7
12	Imp	22, 24 Jul	2(480)	95.0 min (43.2, 56.8)	1	1 Day	No	145.0 min	119.0 (5)	1130.5 + 1 (~5 cm long) fish
21	Imp	26, 27, 29 Jul	3(720)	133.0 min (98.2, 1.8)	1	10 Days	No	107.0 min	64.2 (11)	853.9
29	Imp	22, 24 Jul	2(480)	105.0 min (29.0, 71.0)	2	7 Days	No	135.0 min	50.2 (5)	527.1
46	Imp	26, 27 Jul	2(480)	177.5 min (12.9, 87.1)	2	7+ Days	No	62.5 min	86.3 (8)	1531.8
38	Imp	3, 4 Aug	2(480)	108.0 min (92.2, 7.8)	1	15 Days	Yes (45 min on 4 Aug)	132.0 min	58.5 (4)	631.8
			Mean ± SE (n=6)	129.1 ± 13.5 min				110.9 ± 13.5 min	67.8 ± 13.0	853.8 ± 172.5