APPENDIX F: LUNA BREEDING AREA SUMMARIES

Table 24. Observed human activity and bald eagle behavior, Luna BA, Arizona, 1999.									
Type	N[1]	W	R	F	L	X	B	U	Total
Hiker	1	7	--	--	1	--	3	--	12 (31.6%)
Helicopter	2	--	--	1	--	--	2	1	6 (15.8%)
Jets	--	2	--	--	--	--	--	4	6 (15.8%)
Agency Worker	2	--	--	2	--	--	--	--	4 (10.5%)
Nestwatcher	--	2	--	--	1	1	--	--	4 (10.5%)
Fisherman	--	2	1	--	--	--	--	--	3 (7.9%)
Birder	--	1	--	--	--	--	--	--	1 (2.6%)
Driver	--	--	--	--	1	--	--	--	1 (2.6%)
Boater	--	--	--	--	--	--	1	--	1 (2.6%)
Total	5	14	1	3	3	1	6	5	38

[1] Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area, X=other (no explanation offered), B=bird not in area, U=unknown.

Table 25. Observed forage event and success, Luna BA, Arizona, 1999.						
Sex	Fish		Birds		Total	
	E[1]	S[2]-U	E	S-U	E	S-U
Male	22	14-8	11	2-9	33	16-17
Female	14	10-4	4	1-3	18	11-7
Unknown	11	11-0	5	2-3	16	13-3
Total	47	35-12	20	5-15	67	40-27

[1] E=A Single forage event, not the number of attempts during one attempt.
[2] S-U=Successful – Unsuccessful forage events.

Table 26. Observed prey types delivered to the nest, Luna BA, Arizona, 1999.				
Sex	Fish	Birds	Unknown	Total
Male	4	--	2	6 (40.0%)
Female	4	1	1	6 (40.0%)
Unknown	2	1	--	3 (20.0%)
Total	10 (66.7%)	2 (13.3%)	3 (20.0%)	15

Table 27. Observed human activity and bald eagle behavior, Luna BA, Arizona, 2000.					
Type	N[1]	W	F	B	Total
Hiker	5	--	1	--	6 (46.2%)
Agency Worker	--	1	2	--	3 (23.1%)
Jets	3	--	--	--	3 (23.1%)
Construction	--	--	--	1	1 (7.7%)
Total	8	1	3	1	13

[1] Bald eagle behavior, N=none, W=watched, F=flushed, B=bird not in area.

Table 28. Observed forage event and success, Luna BA, Arizona, 2000.

Sex	Fish		Mammals		Unknown		Total	
	E[1]	S[2]-U	E	S-U	E	S-U	E	S-U
Male	4	1-3	1	0-1	--	--	5	1-4
Female	3	2-1	--	--	--	--	3	2-1
Unknown	6	6-0	--	--	1	1-0	7	7-0
Total	13	9-4	1	0-1	1	1-0	15	10-5

[1] E=A Single forage event, not the number of attempts during one attempt.
[2] S-U=Successful – Unsuccessful forage events.

Table 29. Observed prey types delivered to the nest, Luna BA, Arizona, 2000.

Sex	Fish	Birds	Unknown	Total
Male	2	--	--	2 (14.3%)
Female	1	--	1	2 (14.3%)
Unknown	7	1	2	10 (71.4%)
Total	10 (71.4%)	1 (7.1%)	3 (21.4%)	14

APPENDIX G: ORME BREEDING AREA SUMMARIES

Table 30. Observed human activity and bald eagle behavior, Orme BA, Arizona, 1999.

Type	N[1]	W	R	F	X	B	U	Total
Small Plane	248	42	--	2	--	53	14	359 (42.9%)
Helicopter	66	94	2	3	1a	19	9	194 (23.2%)
Raft/Canoe/Kayak	122	28	--	6	1b	23	3	183 (21.9%)
Tuber	31	10	--	--	--	16	--	57 (6.8%)
Fisherman	12	1	--	1	--	--	--	14 (1.7%)
Swimmer	6	3	--	--	--	2	--	11 (1.3%)
Driver	2	1	--	--	--	--	--	3 (0.4%)
Boater	--	2	--	--	--	--	--	2 (0.2%)
Dog	2	--	--	--	--	--	--	2 (0.2%)
Hiker	1	--	--	1	--	--	--	2 (0.2%)
Horseback Rider	1	1	--	--	--	--	--	2 (0.2%)
Gunshots	--	--	--	--	--	--	1	1 (0.1%)
Jets	1	--	--	--	--	--	--	1 (0.1%)
OHV	--	1	--	--	--	--	--	1 (0.1%)
Rancher	1	--	--	--	--	--	--	1 (0.1%)
Researcher	--	--	--	1	--	--	--	1 (0.1%)
Total	493	183	2	14	2	115	28	837

[1] Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, X=other (a=altered flight path, b=interacted with great blue heron), B=bird not in area, U=unknown.

Table 31. Observed watercraft use, Orme BA, Arizona, 1999.

Type	Watercraft				People			
	4/29 – 5/28	5/29 - 31	6/4 - 5	Total	4/29 – 5/28	5/29 - 31	6/4 - 5	Total
Tuber	334	14751	1037	16122	334	14751	1037	16122
Canoe/Kayak	337	20	18	375	547	34	25	606
Raft	183	7	4	194	1429	51	34	1514
Boat	2	--	--	2	3	--	--	3
Total	856	14778	1059	16693	2313	14836	1096	18245

Table 32. Observed helicopter activity and bald eagle behavior, Orme BA, Arizona, 1999.

Type	N[1]	W	R	F	X	B	U	Total
Civilian	36	47	1	1	1a	13	6	105 (54.1%)
Military	25	39	--	--	--	3	1	68 (35.1%)
Sheriff	4	5	1	2	--	3	1	16 (8.2%)
News	1	3	--	--	--	--	1	5 (2.6%)
Total	66	94	2	3	1	19	9	194

[1] Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, X=other (a=interacted with great blue heron), B=bird not in area, U=unknown.

Table 33. Observed forage event and success. Orme BA. Arizona. 1999.						
Sex	Fish		Unknown		Total	
	E[1]	S[2]-U	E	S-U	E	S-U
Male	2	2-0	1	1-0	3	3-0
Female	4	4-0	--	--	4	4-0
Total	6	6-0	1	1-0	7	7-0

[1] E=A Single forage event, not the number of attempts during one attempt.
[2] S-U=Successful – Unsuccessful forage events.

Table 34. Observed prey types delivered to the nest. Orme BA. Arizona. 1999.						
Sex	Fish	Birds	Mammals	Reptile	Unknown	Total
Male	15	2	2	--	5	24 (39.3%)
Female	35	--	--	1	1	37 (60.7%)
Total	50 (82.0%)	2 (3.3%)	2 (3.3%)	1 (1.6%)	6 (9.8%)	61

Table 35. Observed human activity and bald eagle behavior. Orme BA. Arizona. 2000.				
Type	N[1]	W	F	Total
Small Plane	189	56	1	246 (53.9%)
Helicopter	51	47	1	99 (21.7%)
Driver	30	5	5	40 (8.8%)
Hiker	20	1	1	22 (4.8%)
Shooter	13	1	--	14 (3.1%)
OHV	10	2	--	12 (2.6%)
Horseback Rider	3	2	--	5 (1.1%)
Construction	4	--	1	5 (1.1%)
Fisherman	4	--	--	4 (0.9%)
Picnicker	2	--	--	2 (0.4%)
Swimmer	2	--	--	2 (0.4%)
Researcher	--	--	1	1 (0.2%)
Mining	1	--	--	1 (0.2%)
Cycler	1	--	--	1 (0.2%)
Jets	--	1	--	1 (0.2%)
Photographer	1	--	--	1 (0.2%)
Total	331	115	10	456

[1] Bald eagle behavior, N=none, W=watched, F=flushed.

Table 36. Observed aircraft activity and bald eagle behavior, Orme BA, Arizona, 2000.							
Type	N[1]	W	R	F	B	U	Total
Unknown plane	177	49	1	--	5	2	234 (63.4%)
WW II plane	12	7	--	1	--	--	20 (5.4%)
Unknown helicopter	31	23	1	--	--	1	56 (15.2%)
Apache helicopter	14	14	--	--	--	1	29 (7.9%)
Sheriff's helicopter	6	10	--	--	--	--	16 (4.3%)
Total	240	103	2	1	5	4	355

[1] Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, B=bird not in area, U=unknown.

Table 37. Observed prey types delivered to the nest, Orme BA, Arizona, 2000.					
Sex	Fish	Birds	Mammals	Unknown	Total
Male	6	1	--	3	10 (76.9%)
Female	1	--	--	--	1 (7.7%)
Unknown	--	1	1	--	2 (15.4%)
Total	7 (53.8%)	2 (15.4%)	1 (7.7%)	3 (23.1%)	13

APPENDIX H: PLEASANT BREEDING AREA SUMMARIES

Table 38. Observed human activity and bald eagle behavior, Pleasant BA, Arizona, 1999.

Type	N[1]	W	R	F	L	X	U	D-D[2] Total	Total
Boats	108	62	10	1	--	7	31	151	219 (45.7%)
Small Plane	72	15	12	1	1	4	27	87	132 (27.6%)
Agency Boats	25	20	2	1	--	2	5	36	55 (11.5%)
Jet-Ski	9	5	5	2	--	3	2	17	26 (5.4%)
Helicopter	7	3	6	--	--	2	4	11	22 (4.6%)
Jets	2	--	14	--	--	1	1	5	18 (3.8%)
Fisherman	1	--	--	--	--	--	--	1	1 (0.2%)
Ultralight	1	2	1	--	--	--	2	4	6 (1.3%)
Total	225	107	50	5	1	19	72	313	479

[1] Bald eagle behavior, N=none, W=watched, R=restless, F=flushed, L=left area. X=other (no explanation offered), U=unknown.
[2] D-D Total=Observations on dawn-to-dusk days.

Table 39. Watercraft compliance at the southern closure boundary, Pleasant BA, Arizona, 1999.

Date	Boats at Closure	Boats in Closure	Agency Boats in Closure	Jet Skis at Closure	Jet Skies in Closure	Total
2/7 – 14	262	22	9	24	2	319
2/19 – 28	863	34	6	98	3	1004
3/5 – 14	847	38	9	61	1	956
3/19 – 28	1241	37	5	127	9	1419
4/2 – 11	729	15	11	39	--	794
4/16 – 25	1371	34	9	204	6	1624
4/31 – 5/9	1842	27	10	438	6	2323
5/11 – 5/12	95	3	--	34	1	133
Total	7250 (84.5%)	210 (2.4%)	59 (0.7%)	1025 (11.9%)	28 (0.3%)	8572

Table 40. Observed forage event and success, Pleasant BA, Arizona, 1999.

Sex	Fish		Birds		Unknown		Total	
	E[1]	S[2]-U	E	S-U	E	S-U	E	S-U
Male	19	13-6	5	4-1	7	1-6	31	18-13
Female	--	--	2	1-1	4	1-3	6	2-4
Unknown	1	1-0	--	--	--	--	1	1-0
Total	20	14-6	7	5-2	11	2-9	38	21-17

[1] E=A Single forage event, not the number of attempts during one attempt.
[2] S-U=Successful – Unsuccessful forage events.

Table 41. Observed prey types delivered to the nest, Pleasant BA, Arizona, 1999.						
Sex	Fish	Birds	Mammals	Reptile	Unknown	Total
Male	40	9	1	1	11	62 (86.1%)
Female	3	--	1	--	4	8 (11.1%)
Unknown	--	--	1	--	1	2 (2.8%)
Total	43 (59.7%)	9 (12.5%)	3 (4.2%)	1 (1.4%)	16 (22.2%)	72

Table 42. Observed human activity and bald eagle behavior, Pleasant BA, Arizona, 2000.					
Type	N[1]	W	R	U	Total
Boats	156	70	13	50	289 (40.1%)
Small Plane	140	15	4	90	249 (34.6%)
Agency Boats	41	33	3	14	91 (12.6%)
Jet-Ski	20	18	--	15	53 (7.4%)
Helicopter	7	--	2	7	16 (2.2%)
Jets	3	4	1	5	13 (1.8%)
Ultralight	3	--	1	3	7 (1.0%)
Waterskier	--	--	1	--	1 (0.1%)
Sailboat	1	--	--	--	1 (0.1%)
Total	371	140	25	184	720

[1] Bald eagle behavior, N=none, W=watched, R=restless, U=unknown.

Table 43. Watercraft compliance at the southern closure boundary, Pleasant BA, Arizona, 2000.						
Date	Boats at Closure	Boats in Closure	Agency Boats in Closure	Jet Skis at Closure	Jet Skies in Closure	Total
2/5 – 13	489	23	5	33	4	554
2/18 – 27	578	24	9	60	--	671
3/3 – 12	564	40	3	46	5	658
3/17 – 26	1302	41	14	120	6	1483
3/31 – 4/9	987	51	11	158	7	1214
4/14 – 23	750	48	8	119	11	936
4/28 – 5/9	675	39	13	166	21	914
5/12 – 5/27	1080	42	20	205	17	1364
Total	6425 (82.4%)	308 (4.0%)	83 (1.1%)	907 (11.6%)	71 (0.9%)	7794

Table 44. Observed forage event and success, Pleasant BA, Arizona, 2000.								
Sex	Fish		Birds		Unknown		Total	
	E[1]	S[2]-U	E	S-U	E	S-U	E	S-U
Male	5	5-0	--	--	--	--	5	5-0
Female	3	2-1	1	0-1	1	0-1	5	2-3
Unknown	2	2-0	--	--	--	--	2	2-0
Total	10	9-1	1	0-1	1	0-1	12	9-3

[1] E=A Single forage event, not the number of attempts during one attempt.
[2] S-U=Successful – Unsuccessful forage events.