

2019 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
SL	4/25/2019	8:30am	12:30PM	TR	A	PC
Noise	Start	55.1	End	39.4	Temp (F)	51 53

Number of adult Bald Eagles detected	2
Number of nestlings detected	2
Number of fledglings detected	0

Behaviors ^A
P- Perched ¹ (A)
NI - Nest Incubating (L)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (M)
PR - Preening (B)
BR - Branching
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (7)
TE- Territory Flight (8)
NV - Not Visible (9)
C - Courtship (G)
Cop - Copulate (H)

Disturbance Indicators (DI)	
1	Staring Intently
2	Raised hackles
3	Alert posture
4	Distress calls ² (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> a. "chatter call" à 3-4 intro notes w/ short gasps of silence (<1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee-kee) b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times c. "wails" (rare)
5	Flushing
6*	Standing over their eggs (For an extended period > 10 min. notify super; > 20 minutes Stop Work)
7*	Standing on the side of nest (For an extended period > 10 min notify super; > 20 minutes Stop Work)
8*	Absence from the nest for an extended period
9	Direct flight toward construction, particularly if vocalizing while flying
10	Vocalization during flight in the vicinity of construction

². Any distress call must be investigated to determine cause and **any construction or human activity that may be responsible for the distress call, must be halted or modified immediately.**

*. Applies to incubation /brooding periods - once chicks hatch standing in or on the side of the nest is normal. Absence from nest also common

^A. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

Please include additional notes and comments below:

One adult (A1) was perched at the top of the nest tree upon arrival at Del Corso Park. At approximately 9:27 A1 made a short flight to the east. A1 returned to the nest and made another short flight towards Stearns Lake a few minutes later. A1 returned to the nest tree at 9:35am. At 9:45am the second adult (A2) was seen landing in the nest with a fish. A1 moved to the nest and began feeding the fish to both nestlings. A2 moved to a perch in the nest tree and then flew southeast and eventually out of sight. At 12:00pm, A2 was seen flying to the nest tree with another fish. A2 landed in the nest and dropped the fish before moving to perch at the top of the nest tree. A1 fed on the fish in the nest and also fed the nestlings. After feeding, A1 flew to the west and eventually out of sight. A2 was perched in the nest tree at the end of the observation period. Construction was very active with new buildings being framed and deliveries being made in the east end of Zone A. No disturbance indicators were observed.

Plumage
Y - Young
JU - Juvenile
SU- Sub Adult
AD- Adult

Eagle ID Examples
A1 - Adult 1
A2 - Adult 2
Y1 - First Eaglet
Y2 - Second Eaglet
Y3- Third Eaglet

Sky Codes	
CL	Clear
PC	Partly Cloudy
OC	Overcast
DR	Drizzle
RA	Rain
SN	Snow
SL	Sleet/hail
FH	Fog/Haze

Wind Codes	Speed (mph)	Description
0	0	Smoke rises vertically
1	1-3	Wind direction visible in smoke
2	4-7	Wind felt on face, leaves rustle
3	8-12	Leaves and smaller twigs in constant motion
4	13-18	Small branches sway
5	19-24	Smaller trees sway
6	25-31	Large branches in motion
6+	31+	Whole trees in motion

Used as a back-up to anemometer

Photo (s)



An adult perched at the top of the nest tree.



An adult feeding the nestlings.

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	830	P2	NV	P1	P1		Constr.	0	A1 perched in the nest tree upon arrival at Del Corso Park.	1.5	N
	833	P2	NV	P1	P1		Constr.	0	A1 perched in nest tree, both nestlings visible.		
	836	P2	NV	P1	P1		Constr.	0	No change.		
	839	P2	NV	P1	P1		Constr.	0	No change.		
	842	P2	NV	P1	P1		Constr.	0	No change.		
	845	P2	NV	P1	P1		Constr.	0	No change.		
	848	P2	NV	P1	P1		Constr.	0	No change.		
	851	P2	NV	P1	P1		Constr.	0	No change.		
	854	P2	NV	P1	P1		Constr.	0	No change.		
	857	P2	NV	P1	P1		Constr.	0	No change.		
	900	P2	NV	P1	P1		Constr.	0	No change.	6.5	N
	903	P2	NV	P1	P1		Constr.	0	No change.		
	906	P2	NV	P1	P1		Constr.	0	No change.		
	909	P2	NV	P1	P1		Constr.	0	No change.		
	912	P2	NV	P1	P1		Constr.	0	No change.		
	915	P2	NV	P1	P1		Constr.	0	No change.		
	918	P2	NV	P1	P1		Constr.	0	No change.		
	921	P2	NV	P1	P1		Constr.	0	No change.		
	924	P2	NV	P1	P1		Constr.	0	No change.		
	927	P2	NV	P1	P1		Constr.	0	No change.		
	930	P2	NV	P1	P1		Constr.	0	No change.	11	E
931		Fly	NV	P1	P1		Constr.	0	A1 flying to the east.		
932		P2	NV	P1	P1		Constr.	0	A1 flew to the nest tree and perched at top of nest tree.		
	933	P2	NV	P1	P1		Constr.	0	No change.		
933		Fly	NV	P1	P1		Constr.	0	A1 flying east towards Stearn's Lake.		
935		NV	NV	P1	P1		Constr.	0	A1 flew out of sight behind trees.		
	936	NV	NV	P1	P1		Constr.	0	A1 still out of sight.		
937		Fly	NV	P1	P1		Constr.	0	A1 spotted flying towards the nest.		
937		P2	NV	P1	P1		Constr.	0	A1 landed at top of nest tree.		

¹. Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >51-200 m from nest; 5. 201-1000 m. from nest; 6. >1k from nest. mark locations on

³. Mark disturbance on BBC property on attached map (Figure 2)

Disturbance Type includes: construction, highway/traffic, train, aircraft, pedestrians, horseback riders, other

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	939	P2	NV	P1	P1		Constr.	0	No change.		
	942	P2	NV	P1	P1		Constr.	0	No change.		
	945	P2	NV	P1	P1		Constr.	0	A1 vocalized briefly.		
945		P1	NV	P1	P1		Constr.	0	A1 moved to the nest and vocalized.		
945		P1	P1	P1	P1		Constr.	0	A2 landed in the nest with a fish.		
946		FY	P2	FS	FS		Constr.	0	A1 feeding Y1 and Y2. A2 moved to perch in nest tree.		
	948	FY	Fly	FS	FS		Constr.	0	A2 flew from nest tree and circled high.		
	951	FY	NV	FS	FS		Constr.	0	Lost sight of A2 in the sun. A1 still feeding Y1 and Y2.		
	954	P2	NV	P1	P1		Constr.	0	A1 moved to perch in the nest tree.		
	957	P2	NV	P1	P1		Constr.	0	A1 perched in nest tree.		
	1000	P2	NV	P1	P1		Constr.	0	No change.	9.3	E
	1003	P2	NV	P1	P1		Constr.	0	No change.		
	1006	P2	NV	P1	P1		Constr.	0	No change.		
	1009	P2	NV	P1	P1		Constr.	0	No change.		
	1012	P2	NV	P1	P1		Constr.	0	No change.		
	1015	P2	NV	P1	P1		Constr.	0	No change.		
	1018	P2	NV	P1	P1		Constr.	0	No change.		
	1021	P2	NV	P1	P1		Constr.	0	No change.		
1022		Fly	NV	P1	P1		Constr.	0	A1 flying to the northeast.		
1022		P2	NV	P1	P1		Constr.	0	A1 landed back in the nest tree.		
	1024	P2	NV	P1	P1		Constr.	0	A1 perched in nest tree.		
	1027	P2	NV	P1	P1		Constr.	0	No change.		
	1030	P2	NV	P1	P1		Constr.	0	No change.	10.4	E
	1033	P2	NV	P1	P1		Constr.	0	No change.		
	1036	P2	NV	P1	P1		Constr.	0	No change.		
	1039	P2	NV	P1	P1		Constr.	0	No change.		
	1042	P2	NV	P1	P1		Constr.	0	No change.		
	1045	P2	NV	P1	P1		Constr.	0	No change.		
	1048	P2	NV	P1	P1		Helicopter	0	No change.		
	1051	P2	NV	P1	P1		Constr.	0	No change.		
	1054	P2	NV	P1	P1		Constr.	0	No change.		
	1057	P2	NV	P1	P1		Constr.	0	No change.		

Time (Continuous)	3 min. obs.	Behavior					Disturbance ³		Notes /comments/Loc ²	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
	1100	P2	NV	P1	P1		Constr.	0	No change.	1.5	E
	1103	P2	NV	P1	P1		Constr.	0	No change.		
	1106	P2	NV	P1	P1		Constr.	0	No change.		
	1109	P2	NV	P1	P1		Constr.	0	No change.		
	1112	P2	NV	P1	P1		Constr.	0	No change.		
	1115	P2	NV	P1	P1		Constr.	0	No change.		
	1118	P2	NV	P1	P1		Constr.	0	No change.		
	1121	P2	NV	P1	P1		Constr.	0	No change.		
	1124	P2	NV	P1	P1		Constr.	0	No change.		
	1127	P2	NV	P1	P1		Constr.	0	No change.		
	1130	P2	NV	P1	P1		Constr.	0	No change.	1.2	E
	1133	P2	NV	P1	P1		Constr.	0	No change.		
	1136	P2	NV	P1	P1		Constr.	0	No change.		
	1139	P2	NV	P1	P1		Constr.	0	No change.		
1140		Fly	NV	P1	P1		Constr.	0	A1 flying over the wetland near the nest tree.		
	1142	Fly	NV	P1	P1		Constr.	0	A1 flying over wetland near the nest tree.		
1142		P2	NV	P1	P1		Constr.	0	A1 landed back in the nest tree.		
	1145	P2	NV	P1	P1		Constr.	0	A1 perched in nest tree.		
	1148	P2	NV	P1	P1		Constr.	0	No change.		
1148		P1	NV	P1	P1		Constr.	0	A1 moved to the nest.		
1150		NC	NV	P1	P1		Constr.	0	A1 moving nest bedding around.		
	1151	P1	NV	P1	P1		Constr.	0	A1 perched in nest.		
	1154	P1	NV	P1	P1		Constr.	0	No change.		
	1157	P1	NV	P1	P1		Constr.	0	No change.		
	1200	P1	Fly	P1	P1		Constr.	0	A2 flying towards the nest with a fish.		
1200		P1	P1	P1	P1		Constr.	0	A2 landed in the nest with a fish.	10.6	E
1201		FY	P1	FS	FS		Constr.	0	A1 feeding Y1 and Y2.		
	1203	FS	P2	P1	P1		Constr.	0	A2 moved to perch in nest tree. A1 feeding itself.		
1204		FS	P2	P1	P1		Constr.	0	A1 feeding itself.		
	1206	FY	P2	FS	FS		Constr.	0	A1 feeding Y1 and Y2.		
	1209	FY	P2	FS	FS		Constr.	0	A1 feeding Y1 and Y2.		
	1212	FY	P2	FS	FS		Constr.	0	A1 feeding Y1 and Y2.		

