

Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer
SL	5/29/2018	845	1630	TR

Number of adult Bald Eagles detected	2
Number of nestlings detected	1
Number of fledglings detected	

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

 Wind Code 0-2

 Sky Code CL

 Temp (F) 75

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

Disturbance Indicators	
1	Intent staring
2	Raised hackles
3	Alert posture
4	Distress calls* (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) 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)

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.*

Behaviors ¹
P- Perched ²
NI - Nest Incubating (1)
NB - Nest Brooding (1)
NC - Nest Const/Maint. (D)
FS - Feeding Self (C)
FY - Feeding Young (C)
PR - Preening (B)
FL - Fledging
SL - Sleeping (E)
AI - Aggressive Interact. (F)
Fly - to/from Nest/Perch (5)
TE- Territory Flight (6)
NV - Not Visible (7)
C - Courtship/Copulate (G/H)

ID	Time	Behavior	Disturbance	Notes /comments/Loc ²
A1,Y1	845	P2,P1	0	A1 in nest tree, work not started yet
A2	846	P2	0	Located A2 in nest tree
A1,A2,Y1	900	P2,P2,P1	0	no change
A1,A2,Y1	910	P2,P2,P1	0	Work begins on fence, no change
A1,A2,Y1	915	P2,P2,P1	0	no change
A2	916	FLY	0	A2 flew off north of 470, soaring high
A2	917	FLY	0	No change
A2	920	FLY/NV	0	A2 flew out of sight.
A1,Y1	930	P2,P1	0	A1 in nest tree, Y1 in nest
A1,Y1	945	P2,P1	0	No change
A1	955	Fly/P1	0	A1 moves to nest perch
A1,Y1	1000	P1,P1	0	A1/Y1 perched on nest
A1,Y1	1015	P1,P1	0	No change
A1,Y1	1030	P1,P1	0	No change
A1,Y1	1045	P1,P1	0	No change
A1,Y1	1100	P1,P1	0	No change
A1,A2,Y1	1120	P1,FS,FS	0	A2 returns to nest with prey, A2/Y1 feeding
A1	1121	FLY	0	A1 leaves nest, soars high
A2,Y1	1125	FS,FS	0	A2/Y1 feeding in nest
A2,Y1	1127	P1,FS	0	Y1 feeding
A2,Y1	1130	P1,P1	0	A2/Y1 perched in nest

². Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >50m from nest;

* Applies to incubation and brooding periods - once chicks hatch standing in or on the side of the nest is normal

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ID	Time	Behavior	Disturbance	Notes /comments/Loc ²
A2,Y1	1138	FLY,P1	0	A2 circled tree to the south, landed in nest
A2,Y1	1139	FLY,P1	0	A2 circled trees again, landed in nest
A1	1142	P1	0	A1 flies from southern trees lands with prey
A1,A2,Y1	1143	P1,FY,FS	0	A2 feeding Y1
A2	1150	FLY	0	A2 flew off nest to P2/NV
A1,Y1	1151	FS,FS	0	A1 and Y1 feeding
A1,Y1	1159	FLY/P3,Y1	0	A1 flew to ground (missed prey?) landed P3
A1,Y1	1200	P3,P1	0	No change
A2	1209	FLY	0	A2 flew from nest to ground then to P3
A1,A2,Y1	1215	P3,P3,P1	0	Both adults perched in southern trees
A1,A2,Y1	1230	P3,P3,P1	0	Both adults perched in southern trees
A2	1240	FLY/P1	0	A2 flew to nest perch
A2,Y1	1245	P1,P1	0	No change
A2,Y1	1300	P1,P1	0	No change
A2	1305	P3	0	A2 moved to P3 perch
A2	1315	P2	0	A2 moved to P2 perch
A1,A2,Y1	1330	P3,P2,P1	0	No change
A1,A2,Y1	1345	P3,P2,P1	0	No change
A1,A2,Y1	1400	P3,P2,P1	0	No change
A1,A2,Y1	1415	P3,P2,P1	0	No change
A1	1423	FLY	0	A1 flew and flushed hawk from northern tree
A1,A2,Y1	1425	P4,P2,P1	0	A1 perched in northern tree
A1,A2,Y1	1430	P4,P2,P1	0	No change
A1	1432	FLY/P2	0	A1 moved to nest tree perch
A1	1434	P2	1,2	A1 intent staring, hackles raised
A1	1438	P2	1	A1 intent staring
A1	1440	P2/PR	0	A1 alert but appearing to calm
A1,A2,Y1	1445	P2,P2,P1	0	No change, adults calm, train passing
A1,A2,Y1	1500	P2,P2,P1	0	No change
A1,A2,Y1	1515	P2,P2,P1	0	No change
A1,A2,Y1	1530	P2PR,P2,P1	0	A1 preening, no change
A1	1537	FLY	0	A1 left perch, soaring high to south
A2	1539	FLY	0	A2 left perch flying over apartments
A2	1544	FLY/P1	0	A2 lands in nest
A1,A2,Y1	1545	NV,P1,P1	0	A1 flew out of sight
A1,A2,Y1	1600	NV,P1,P1	0	No change
A2,Y1	1615	P1,P1	0	No change
A2,Y1	1630	P1,P1	0	No change

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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

Please include additional notes and comments below:

11:38 - 11:39 A2 circled off the nest around the southern stand of cottonwoods. No equipment was operating at this time. At 11:42 A1 flew out from that stand of trees to the nest with prey which may explain A2's unusual behavior at this time.

2:00 a loud pneumatic post driver began operating from 2 until 2:55pm

2:23 A1 flew from its perch directly toward the northern cottonwood near 470 and aggressively flushed a red-tailed hawk. A1 perched in the northern tree.

2:32 A1 flew to a perch in the nest tree, signs of distress were noted (intent staring, raised hackles) but no distress calls. The post driver was installing fence posts near the eastern border of the project area. CORE biologists asked worker to install less posts at this location (to space them further out) to reduce noise and disturbance, they complied. As workers moved further west from the nest the signs of distress reduced and A1 began preening periodically and stopped staring.

From 2:40 until 2:49 A1 appeared alert but not overtly stressed, preened periodically.

Pneumatic post driver started up again at 3:13 near the playground, no reaction from the eagles. Hammering ended at 3:20.

3:37-3:39 both adults left their perches and flew over the existing apartments, A2 returned to nest, A1 circled out of sight. No equipment was being operated at this time.