

## 2019 Broomfield Bald Eagle Watch Data Sheet

Site Code	Date	Start Time	End Time	Observer	Observation Pt.	Sky Code
SL	1/22/2019	3:45pm	5:15pm	TR	A	PC
Noise	Start	53.2	End	51.2	Temp (F)	31 28

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

Behaviors <sup>A</sup>
P- Perched <sup>1</sup> (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 <sup>2</sup> (three distinctive calls of nesting birds in response to humans) <ul style="list-style-type: none"> <li>a. "chatter call" à 3-4 intro notes w/ short gasps of silence (&lt;1s) followed by rapid sequence of descending notes, usually 6-9 notes (kwit kwit kwit kwit kee-kee-kee-kee)</li> <li>b. "peal" high-pitched, prolonged, gull-like cry, repeated 3-5 times</li> <li>c. "wails" (rare)</li> </ul>
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

<sup>2</sup>. 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

<sup>A</sup>. The alpha-numeric codes in parenthesis correspond to FRNBES behavior codes

**Please include additional notes and comments below:**

One adult was circling over the wetlands below the nest tree upon arrival at Del Corso Park. The adult landed in the nest tree and remained perched there for the majority of the observation period. At 4:29pm the second adult was seen flying and landed in the nest tree.

At approximately 4:44pm, one adult (A1) flew north, low to the ground, and landed on the ground near Perch P. It then flew back to the nest and remained in the nest for the duration of the observation period.

Construction activity was very light, no framing of buildings occurring during the observation period. Occasional truck deliveries and heavy equipment moving materials around occurred in the Zone B and Zone C. Construction appeared to stop around 5 to 5:06pm.

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

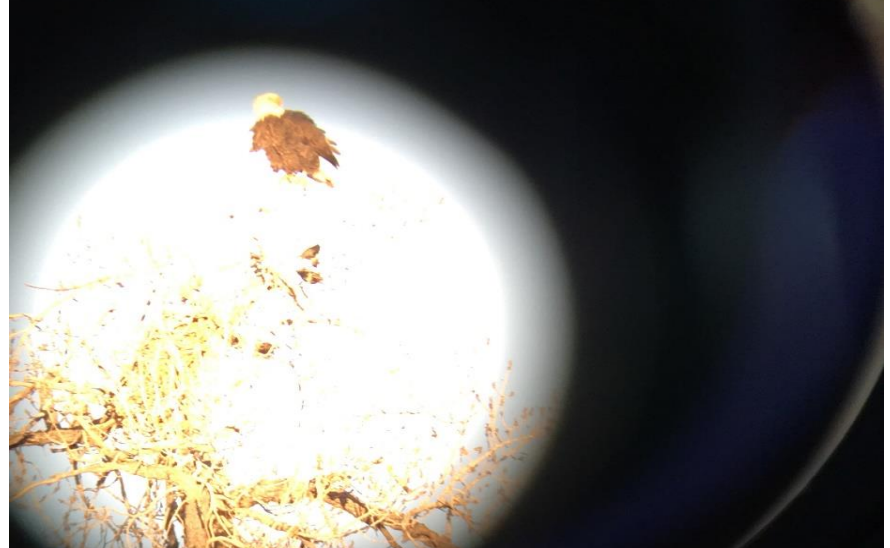
**Photo (s)**

Date & Time: Tue, Jan 22, 2019, 15:58:11 MST



A1 perched in the nest tree.

Date & Time: Tue, Jan 22, 2019, 16:32:00 MST



A2 perched at the top of the nest tree.

Time (Continuous)	3 min. obs.	Behavior					Disturbance <sup>3</sup>		Notes /comments/Loc <sup>2</sup>	Wind	
		A1	A2	Y1	Y2	Y3	Type	DI		Spd.	Dir.
1545	1545	Fly					Const.	0	A1 flying over wetland below nest tree upon arrival at Obs. Point A.		
1546		P2					Const.	0	A1 landed in the nest tree.		
	1548	P2					Const.	0	No change, A1 in nest tree.		
	1551	P2					Const.	0	No change.		
	1554	P2					Const.	0	No change.		
	1557	P2					Const.	0	No change.	4.5	N
	1600	P2					Const.	0	No change.		
	1603	P2					Const.	0	No change.		
	1606	P2					Const.	0	No change.		
	1609	P2					Const.	0	No change.		
	1612	P2					Const.	0	No change.		
	1615	P2					Const.	0	No change.	7.3	N
	1618	P2					Const.	0	No change.		
	1621	P2					Const.	0	No change.		
	1624	P2					Const.	0	No change.		
	1627	P2					Const.	0	No change.		
1629		P2	P2				Const.	0	A2 observed flying and landed at top of nest tree, greeting calls.		
	1630	P2	P2				Const.	0	Both adult are perched in the nest tree.		
	1633	P2	P2				Const.	0	No change, both adults in nest tree.		
	1636	P2	P2				Const.	0	No change.		
	1639	P2	P2				Const.	0	No change.		
	1642	P2	P2				Const.	0	No change.		
1644		Fly	P2				Const.	0	A1 flew low and to the north, landed on the ground near Perch H.		
1645	1645	NV	P2				Const.	0	A1 Not visible on ground near Perch P. A2 in the nest tree.	4.2	N
1647		P1	P2				Const.	0	A1 flew up from ground and landed in the nest.		
	1648	P1	P2				Const.	0	A1 in nest, A2 in nest tree.		
	1651	P1	P2				Const.	0	No change, A1 in nest, A2 in nest tree.		
	1654	P1	P2				Const.	0	No change.		
1655		P1	P2				Train	0	Train is passing, no change.		

<sup>1</sup>. 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 attached map

<sup>3</sup>. Mark disturbance on BBC property on attached map (Figure 2)





