2019 Broomfield Bald Eagle Watch Data Sheet

<table>
<thead>
<tr>
<th>Site Code</th>
<th>Date</th>
<th>Start Time</th>
<th>End Time</th>
<th>Observer</th>
<th>Observation Pt.</th>
<th>Sky Code</th>
<th>Number of adult Bald Eagles detected</th>
<th>Number of nestlings detected</th>
<th>Number of fledglings detected</th>
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<tbody>
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<td>8/12/2019</td>
<td>8:20AM</td>
<td>12:00PM</td>
<td>AJW</td>
<td>A</td>
<td>CL</td>
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Noise Start: 51.2
End: 52.7

Temp (F): 70 84

Disturbance Indicators (DI)

1. Staring Intently
2. Raised hackles
3. Alert posture
4. Distress calls² (three distinctive calls of nesting birds in response to humans)
   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 kee-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

The alpha-numeric codes in parenthesis correspond to FRNBEES behavior codes

Please include additional notes and comments below:

One adult eagle perched in the nest tree upon arrival. No other eagles, adult or juvenile, observed in the area during the survey time. The one adult eagle perched in the nest tree for the remainder of the survey time. Construction noises consisted of heavy machinery and hammers. A Bobcat auger was in the area directly east of where the hay bale wall used to be. No disturbance responses were observed.
<table>
<thead>
<tr>
<th>Plumage</th>
<th>Sky Codes</th>
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<tbody>
<tr>
<td>Y - Young</td>
<td>CL Clear</td>
</tr>
<tr>
<td>JU - Juvenile</td>
<td>PC Partly Cloudy</td>
</tr>
<tr>
<td>SU - Sub Adult</td>
<td>OC Overcast</td>
</tr>
<tr>
<td>AD - Adult</td>
<td>DR Drizzle</td>
</tr>
<tr>
<td>RA Rain</td>
<td>SN Snow</td>
</tr>
<tr>
<td>SL Sleet/hail</td>
<td>FH Fog/Haze</td>
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<table>
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<tr>
<th>Eagle ID Examples</th>
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<tr>
<td>A1 - Adult 1</td>
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<td>A2 - Adult 2</td>
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<tr>
<td>Y1 - First Eaglet</td>
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<td>Y2 - Second Eaglet</td>
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<td>Y3 - Third Eaglet</td>
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<tr>
<th>Wind Codes</th>
<th>Speed (mph)</th>
<th>Description</th>
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<td>1-3</td>
<td>Wind direction visible in smoke</td>
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<tr>
<td>2</td>
<td>4-7</td>
<td>Wind felt on face, leaves rustle</td>
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<tr>
<td>3</td>
<td>8-12</td>
<td>Leaves and smaller twigs in constant motion</td>
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<tr>
<td>4</td>
<td>13-18</td>
<td>Small branches sway</td>
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<td>5</td>
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<td>Smaller trees sway</td>
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<td>6</td>
<td>25-31</td>
<td>Large branches in motion</td>
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<tr>
<td>6+</td>
<td>31+</td>
<td>Whole trees in motion</td>
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Used as a back-up to anemometer

Photo(s)
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<tr>
<th>Time (Continuous)</th>
<th>3 min. obs.</th>
<th>Behavior</th>
<th>Disturbance Type</th>
<th>Notes /comments/Loc</th>
<th>Wind</th>
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</table>

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
<table>
<thead>
<tr>
<th>Time (Continuous)</th>
<th>3 min. obs.</th>
<th>Behavior</th>
<th>Disturbance</th>
<th>Notes /comments/Loc</th>
<th>Wind</th>
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Figure 1
Observation Points and Common Perch Locations

Sections 21, 22, 27, and 28, T1S, R69W; 6th PM
UTM NAD 83: Zone 13N; xxxxxxxxE, xxxxxxxxN
Longitude xxx.xxxxx°W, Latitude xx.xxxxx°N
USGS Lafayette, CO Quadangle
City and County of Broomfield and Boulder County, Colorado

Observed from observation point A.

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January 4, 2019
Broomfield Eagle Evaluation

Nest Location
✓ Disturbance Zone Boundary

Figure 2
Title

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November 13, 2018

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