## Broomfield Bald Eagle Watch Data Sheet

### Site Code Observer
- **Site Code:** SL
- **Date:** 10/11/2018
- **Start Time:** 7:50 AM
- **End Time:** 8:55 AM
- **Observer:** RDB

### Number of Observations
- **Number of adult Bald Eagles detected:** 2
- **Number of nestlings detected:** 0
- **Number of fledglings detected:** 0

### Plumage
- **Y:** Young
- **JU:** Juvenile
- **SU:** Sub Adult
- **AD:** Adult

### Disturbance Indicators (DI)

1. **Intent staring**
2. **Raised hackles**
3. **Alert posture**

4. **Distress calls** *(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 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)*

*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.*

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

### Behaviors
1. **P - Perched**
2. **NI - Nest Incubating**
3. **NB - Nest Brooding**
4. **NC - Nest Const/Maint.**
5. **FS - Feeding Self**
6. **FY - Feeding Young**
7. **PR - Preening**
8. **FL - Fledging**
9. **SL - Sleeping**
10. **AI - Aggressive Interact.**
11. **Fly - to/from Nest/Perch**
12. **TE - Territory Flight**
13. **NV - Not Visible**
14. **C - Courtship/Copulate**

### Disturbance Table

<table>
<thead>
<tr>
<th>ID</th>
<th>Time</th>
<th>Behavior</th>
<th>DI</th>
<th>Type</th>
<th>Notes /comments/Loc</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>7:50</td>
<td>P2</td>
<td>0</td>
<td>Start from Carbon Road</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>7:55</td>
<td>P2</td>
<td>0</td>
<td>Perched on East side of nest tree</td>
<td></td>
</tr>
<tr>
<td>none</td>
<td>7:59</td>
<td></td>
<td></td>
<td>No Change</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:03</td>
<td>Fly</td>
<td>0</td>
<td>Moved to del Corso park</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:03</td>
<td>P2</td>
<td>0</td>
<td>Construction starting throughout site</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:11</td>
<td>Fly</td>
<td>0</td>
<td>From s. with object in talons</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:11</td>
<td>P2</td>
<td>0</td>
<td>Lands on dead branch east side of tree</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:12</td>
<td>P2</td>
<td>0</td>
<td>Fly/hops to beneath nest - obscured view</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:22</td>
<td>P2</td>
<td>0</td>
<td>Moves back to dead branch</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:25</td>
<td>Fly/P2</td>
<td>0</td>
<td>To the west lands in Perch B, next to RR</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:25</td>
<td>Fly</td>
<td>0</td>
<td>10 sec. after A1 flies W.</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:26</td>
<td>P2</td>
<td>0</td>
<td>Lands in Perch B - Bumps Red-tail from tree</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:27:00</td>
<td>Fly</td>
<td>0</td>
<td>Flies east</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:27:10</td>
<td>P2</td>
<td>0</td>
<td>Back to E side nest tree obscured from view</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:27:30</td>
<td>NV</td>
<td>0</td>
<td>Flies N. and out of view</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:28</td>
<td>P2</td>
<td>0</td>
<td>Hops into view</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td>8:29</td>
<td>Fly</td>
<td>0</td>
<td>West to Perch B</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:30</td>
<td>Fly</td>
<td>0</td>
<td>Up from ground w/ stick</td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>8:31</td>
<td>NB</td>
<td>0</td>
<td>Places stick in new nest (east of 2018 nest)</td>
<td></td>
</tr>
</tbody>
</table>

*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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<th>Behavior</th>
<th>Disturbance</th>
<th>Notes /comments/Loc</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>8:33</td>
<td>Fly/P2/NB</td>
<td>0 light equip/crews</td>
<td>Flies into new nest - places stick in nest</td>
</tr>
<tr>
<td>A1</td>
<td>8:34</td>
<td>Fly</td>
<td>0</td>
<td>Flies n. and out of view</td>
</tr>
<tr>
<td>A2</td>
<td>8:35</td>
<td>P2</td>
<td>0</td>
<td>hops out of nest on to branch</td>
</tr>
<tr>
<td>A1</td>
<td>8:36</td>
<td>NB</td>
<td>0</td>
<td>Returns to new nest w/ sticks -</td>
</tr>
<tr>
<td>A2</td>
<td>8:37</td>
<td>Fly</td>
<td>0</td>
<td>Flies off n.</td>
</tr>
<tr>
<td>A2</td>
<td>8:41</td>
<td>P2/NB</td>
<td>0</td>
<td>Returns to new nest w/ large stick</td>
</tr>
<tr>
<td>A1</td>
<td>8:48</td>
<td>Fly</td>
<td>0</td>
<td>Flies off n.</td>
</tr>
<tr>
<td>A2</td>
<td>8:51</td>
<td>Fly</td>
<td>0</td>
<td>Flies off nw.</td>
</tr>
<tr>
<td>A1/A2</td>
<td>8:55</td>
<td>NV</td>
<td>END</td>
<td>No Change - Both Ad NV (nest gathering?)</td>
</tr>
</tbody>
</table>

Behaviors:
- P - Perched
- 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 (S)
- TE - Territory Flight (6)
- NV - Not Visible (7)
- C - Courtship/Copulate (G/H)

Wind Codes:
- 0: Clear
- 1: Partly Cloudy
- 2: Overcast
- 3: Drizzle
- 4: Rain
- 5: Snow
- 6: Sleet/hail
- 6+: Fog/Haze

Wind Code Description:
- 0: Smoke rises vertically
- 1: Wind direction visible in smoke
- 2: Wind felt on face, leaves rustle
- 3: Leaves and smaller twigs in constant motion
- 4: Small branches sway
- 5: Smaller trees sway
- 6: Large branches in motion
- 6+: Whole branches in motion

* Perch type = 1. On nest; 2. In nest tree (outside of nest); 3. < 50 m. outside of nest tree; 4. >50 m from nest;
* Applies to incubation and brooding periods - once chicks hatch stand in or on the side of the nest is normal
Please include photos and additional notes and comments below:

**Summary:**
Both adults observed in vicinity of nest tree most of observation period
Both adults actively building new nest on the east side of the nest tree shielded from winds by the west side of the tree
New nest is a little lower in the tree and slightly shielded from west winds by foliage and branches on east side of the tree
Base of the new nest constructed to a degree that has room for both adults and can support weight of both
Most stick gathering observed was closer to construction, in vicinity of Perch 2 along the RR tracks
Noise from construction moderate and was masked by morning traffic when observing from SE side of ball field at Del Corso Park
2018 nest appears to have lost some sticks - may have been re-used by the adults and moved to new nest.