OREGON MARbled Murrelet Forest Survey Form

Survey Visit to Protocol: ____________________ Page _____ of _____

(Y or N, initials): _______ Total Detections: _______

Species of Concern (circle one, details on last pg.): Y or N

Month ________ Day ________ Year ________

Area Name: __________________________

Site Name / Number: __________________

Station Number: ________

Station Location - T _____ (circle one) N or S , R _____ (circle one) E or W, S _____, QQ (1/16) _____, of Q (1/4) _____

Observer (s) Name: ________________________

Initials: _______

Affiliation: ___________________

Phone: (____)________________

Station Elevation: ________ Ft / M

Position on Slope (circle one): Bottom/plain, Lower 1/3, Mid 1/3, Upper 1/3, Ridgetop

Station Placement (circle one): Inside, Outside

Distance from Survey Site Boundary: ________

Units of Measure for ALL Horizontal Distances: ___________

Station Canopy Cover (circle one): 1 = 0 to 25%, 2 = 26 to 50%, 3 = 51 to 75%, 4 = 76 to 100%

ENVIRONMENTAL CONDITIONS:

Official Sunrise Time: ________

Source: ________ Begin Survey Time: ________

End Survey Time: ________

Temperature at Sunrise: ________

Temperature at End of Survey: ________ (circle one) C or F

WIND: ________ NOISE: ________

NOTES: ________

** ODFW DATABASE USE ONLY **

<table>
<thead>
<tr>
<th>TIME</th>
<th>VERTICAL VIEWING</th>
<th>HORIZ. VIS. TO 100 M</th>
<th>AUDIBILITY TO 200 M</th>
<th>PRECIPITATION</th>
<th>WIND</th>
<th>NOISE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CEILING</td>
<td>CLOUD COVER</td>
<td>VISIBILITY TO 2 CANOPY</td>
<td>RAIN</td>
<td>FOG</td>
<td>OTHER</td>
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Ceiling: UL = Unlimited (clear), HI = >2.0 canopy height, MID = >1.25 to ≤ 2.0 canopy height, LO = ≤1.25 canopy height, U = Unknown.

Cloud Cover: 0 = 0%, 1 = 33%, 2 = 66%, 3 = 100%.

Vertical Visibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection), U = Unknown.

Horizontal Visibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection), U = Unknown.

Audibility: N = Impaired (detections may be missed due to conditions), Y = Unimpaired (conditions allow for reliable detection).

Precipitation - Rain & Fog: N = None, L = Light, M = Moderate, H = Heavy. Other: H = Hail, S = Snow. Indicate intensity using same codes for rain & fog.

Wind: 0 = <1 mph (calm), 1 = 1-3 mph (leaves barely move), 2 = 4-7 mph (leaves rustle, sm. twigs move), 3 = 8-12 mph (leaves & sm. twigs in constant motion), 4 = 13-18 mph (sm. branches move), 5 = 19-24 mph (lg. branches & sm. trees start to sway), 6 = 25-31 mph (lg. branches in constant motion), 7 = 32-38 mph (whole trees move), 8 = 39-46 mph (twigs & sm. branches break).

Noise: N = None, A = Aircraft, B = Bird song/calls, C = Creek/water drainage, M = Machinery, P = Rain/hail, T = Tree drip, V = Vehicle, W = Wind, O = Other (explain in Notes).
## Oregon Marbled Murrelet Forest Survey Form

**SURVEY ACTIVITY:**

**Note Significant Weather Changes on Page 1**

<table>
<thead>
<tr>
<th>STATUS</th>
<th>DETECTION #</th>
<th>DETECTION TIME</th>
<th>INITIAL DETECTION DIRECTION</th>
<th>TYPE</th>
<th>AUDITORY</th>
<th># BIRDS SEEN</th>
<th>INITIAL FLIGHT DIRECTION</th>
<th>BIRD HEIGHT SEEN</th>
<th>CLOSEST DIST. TO BIRDS SEEN (units)</th>
<th>DEPART FLIGHT DIRECTION</th>
<th>FINAL DETECTION DIRECTION</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>I/O</td>
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**Auditory** - Vocal Series:
- **K** = KEER calls
- **G** = Groan (alternate) calls
- **O** = Whistle or Soft Que calls
- **U** = Unknown

**Auditory** - Other:
- **W** = Wing Sound
- **J** = Jet Sound

**Behavior**:
- **F** = Flight Over Canopy
- **C** = Circle Over Canopy
- **T** = Fly-Through At or Below Canopy (≤ 1.0)
- **B** = Circle At or Below Canopy (≤ 1.0)
- **L** = Seen Landing in or Departing From a Tree
- **S** = Stationary Calling (fixed-point multiple calls <100 m)
- **U** = Unknown

**Type**: **H** = Heard Only (no visual), **S** = Seen Only (silent), **B** = Both Seen and Heard.

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*Check Reverse Side When Using 2-Sided Forms*
**SURVEY ACTIVITY (cont.):**

<table>
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<tr>
<th>STATUS</th>
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</tbody>
</table>

**AUDITORY** - **Vocal Series** (Vocalizations): K = KEER calls, G = Groan (alternate) calls, O = Whistle or Soft Que calls, U = Unknown, --- = None or N/A. Indicate the vocal type heard at both the start and end if calls grade between different types during the detection. Indicate the number heard 1-5 or M = Multiple. OL = Overlapping Vocalizations (Y or N).

**AUDITORY** - **Other** (Non-Vocal Sounds): W = Wing Sound, J = Jet Sound, --- = None or N/A. If both are heard write W / J.

**BEHAVIOR:** F = Flight Over Canopy, C = Circle Over Canopy, T = Fly-Through At or Below Canopy (< 1.0), B = Circle At or Below Canopy (< 1.0), L = Seen Landing in or Departing From a Tree, S = Stationary Calling (fixed-point multiple calls <100 m), U = Unknown.

*Note Significant Weather Changes on Page 1*