

Minnesota Marshbird Survey Data Sheet

Date (mo-day-year) : _____ **Start Commute Time:** _____ **Conditions:** **Start** **End** **Other birds or animals detected:**
Survey Route : _____ **End Time:** _____ Wind
Survey replication #: _____ **Mileage:** _____ Sky
Observer(s) (list all)* : _____ Temp (F):

**list all observers in order of their contribution to the data collected
 put an "S" in the appropriate column if the bird was seen, a "1" if the bird was heard, and "1S" if both heard and seen*

Point#	Start Time (military)	Background noise	Species	Distance (meters)	Direction	Responded During										Call Type(s)	Comments (include if detected at previous point, if off-site, and if before or after survey)	
						Pass 0-1	Pass 1-2	Pass 2-3	Pass 3-4	Pass 4-5	LEBI 5-6	YERA 6-7	SORA 7-8	VIRA 8-9	AMBI 9-10			PBGR 10-11
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Primary species: LEBI: coo, kak, ert YERA: cc (click-click); ca (cackle); whz (wheeze) SORA: wh (whinny); pw (per-wheep, koo-EE); kp (keep) VIRA: g (grunt); t (tick-it; gik-gik-gidik); ki (kicker; chi-chi-chi-treer), s (squawk), kk (kikik) AMBI: p (pump-er-lunk), cp (chu-peep), k (kok; kok kok kok) PBGR: ow (ow-hoop; ge-ge-gadum-gadum-gwaaow); hy (hyena; ek-ek-ek-hn-hn-hn)	Secondary species: AMCO, BCNH, BLTE, COGA, EAGR, FOTE, MAWR RNGR, SACR, SWSP, WEGR, WIPH, WISN, YHBL
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Background noise: 0 no noise 1 faint noise 2 moderate (prob. can't hear some birds beyond 100m)
3 loud (prob. can't hear some birds beyond 50m) **4 intense** (prob. can't hear some birds beyond 25m)

List of Secondary Species

- AMCO American Coot
- BCNH Black-crowned Night-Heron
- BLTE Black Tern
- COGA Common Gallinule (formerly Common Moorhen)
- EAGR Eared Grebe
- FOTE Forster's Tern
- MAWR Marsh Wren
- RNGR Red-necked Grebe
- SACR Sandhill Crane
- SWSP Swamp Sparrow
- WEGR Western Grebe
- WIPH Wilson's Phalarope
- WISN Wilson's Snipe
- YHBL Yellow-headed Blackbird

Beaufort #	Wind Speed in km/hr (mph)	Indicators of Wind Speed
0	< 2 (< 1)	Smoke rises vertically
1	2 to 5 (1 to 3)	Wind direction shown by smoke drift
2	6 to 12 (4 to 7)	Wind felt on face, leaves rustle
3	13 to 19 (8 to 12)	Leaves, small twigs in constant motion
4	20 to 29 (13 to 18)	Raises dust/loose paper, small branches move
5	30 to 38 (19 to 24)	Small trees in leaf sway

Sky: 0 clear/ few clouds; **1** partly cloudy/variable; **2** cloudy; **4** fog or smoke; **5** drizzle; **6** snow; **8** showers