Map

Description automatically generated

Figure 1.Minnesota Department of Natural Resources (MNDNR) Wildlife Management Areas in northwestern Minnesota, USA, with large, impounded wetlands invaded by dense cattail (*Typha angustifolia* and *Typha* x *glauca*) stands. We evaluated the effects of glyphosate herbicide application by the MNDNR to control dense cattail on breeding marshbirds. We conducted standardized marshbird surveys at study sites that contained both treatment (treated with herbicide; red polygons) and control (not treated with herbicide and indicated by survey locations; located in the same or adjacent basin to treatment) areas and evaluated counts of marshbirds the spring before and up to 3 springs (2105–2018) after herbicide application.