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RETROSPECTI

Site selection, design criteria and assessment for wetland restorati prairie pothole region

Susan Marie Galatowitsch, Iowa State University

Degree Type

Dissertation

Date of Award

1993

Degree Name

Doctor of Philosophy

Department

Botany

First Advisor

Arnold G. van der Valk

Abstract

The purpose of this dissertation is to evaluate recent prairie w they are comparable to natural wetlands and to provide guide design, and performance of future restorations. Detailed stud revegetation and water regime of 62 wetlands restored in 1988

to see if they have the potential to: (1) improve water quality, I

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use, basin morphometry, and emergent vegetation developme habitat, based on landscape pattern, water regime, and vegeta restorations are small (less than 4 ha) and are restored to be se wetlands. Few restored wetlands (16.1%) seem to receive high pollutants because watersheds of most restored wetlands are permanent cover. Wetlands restored by removing drainage til loadings of nutrients may not improve water quality because 1 Inlets and outlets in these wetlands are typically adjacent to ea compositions of wetlands flooded for one, two and three year environmental and historical factors for the 62 wetlands. Man determine if either factor accounted for vegetation difference vegetation recolonizing restored wetlands within one year of f affected by past land use. A TWINSPAN ordination of these sit drained by ditches or ineffectively drained by tile are recolonic species that likely survived drainage as refugial populations. Ti colonized by mudflat annuals and submersed aquatics. Wet p species were generally not found. A study of ten restored wetl years and ten natural wetlands showed that the mean number natural wetlands and restored wetlands was 45.8 and 26.9 spec Seedbanks of natural wetlands were also more diverse than th with a mean of 15 species for natural wetlands and 8 species for Thirty-seven wet prairie and sedge meadow species of natural dominants) were not found in restored wetlands.

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