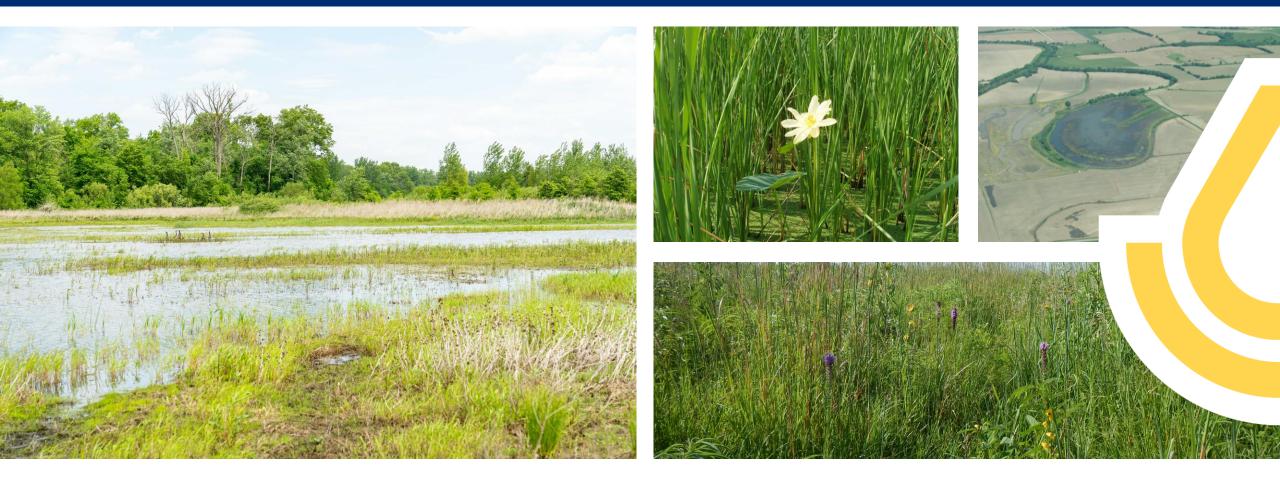


USDA Natural Resources Conservation Service U.S. DEPARTMENT OF AGRICULTURE



Biological Guidance Roger Yerdon, Ted LaGrange, & Ritch Nelson

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Wetland Restoration Criteria & Guidelines

- The purpose of the Wetland Restoration Criteria and Guidelines (WRCG) is to document the technical considerations and parameters used to support decisionmaking related to the restoration of wetlands and associated habitats through NRCS conservation easement programs in Nebraska.
- WRCG is grouped by various wetland complexes throughout Nebraska.



Nebraska's Wetland Complexes

Ted Lagrange – NGPC Wetland Program Manager.





Natural Resources Conservation Service

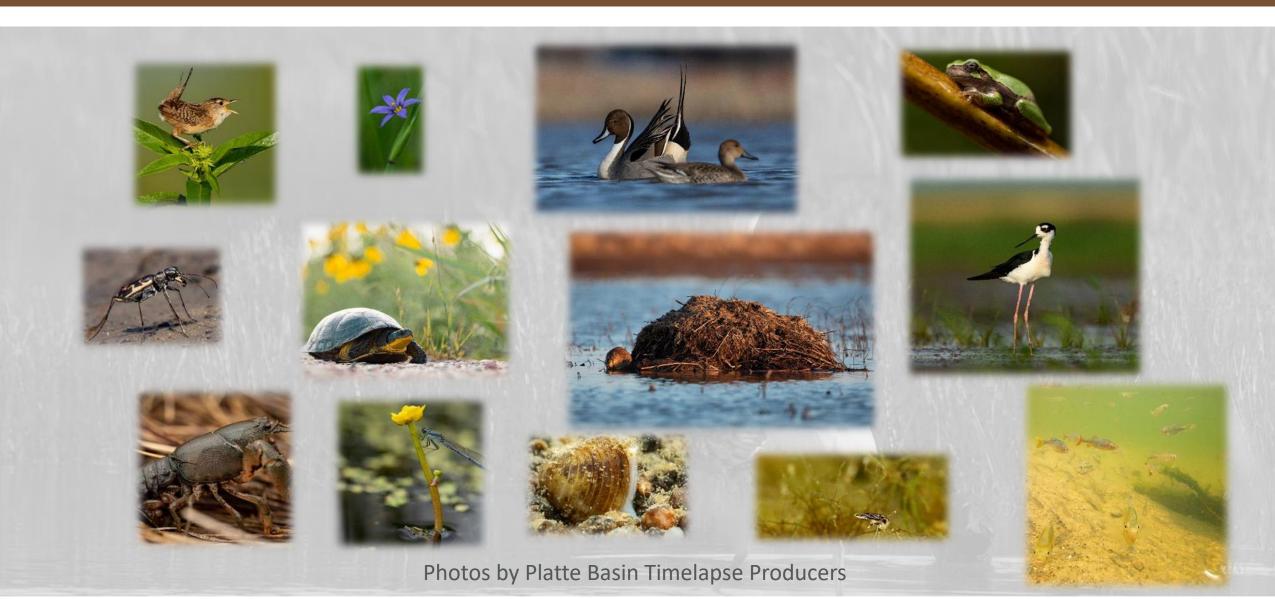
Nebraska has a diversity of wetland types



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Guide to Nebraska's Wetlands

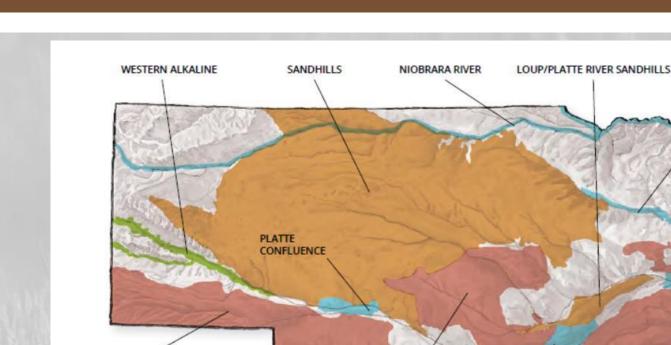
GUIDE TO NEBRASKA'S WETLANDS and their conservation needs

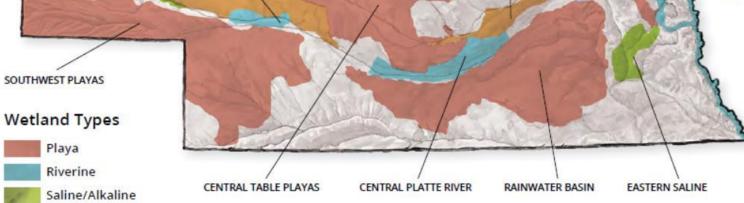


- Defines and describes Nebraska wetlands and discusses wetland functions, dynamics, classification, inventory and conservation efforts.
- Fourteen wetland complexes are covered in depth.

www.NebraskaWetlands.com







Nebraska's regional wetland complexes consist of four types of wetlands: Playa, Riverine, Saline/Alkaline and Sandhills. Even if a wetland is not located within one of these four complexes, it still is an important component of our ecosystem. TIM REGERT, NEBRASKALAND

2022 Guide to Nebraska's Wetlands

Sandhills

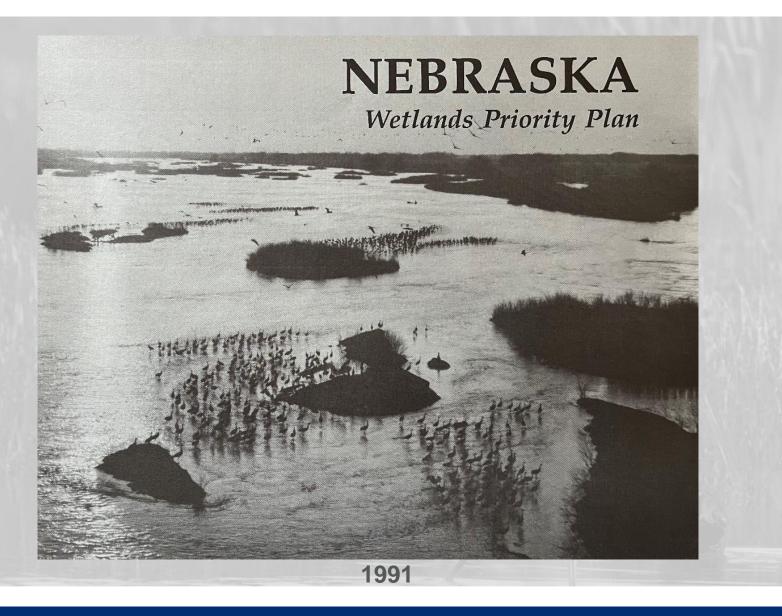
ELKHORN RIVER

TODD

MISSOURI RIVER

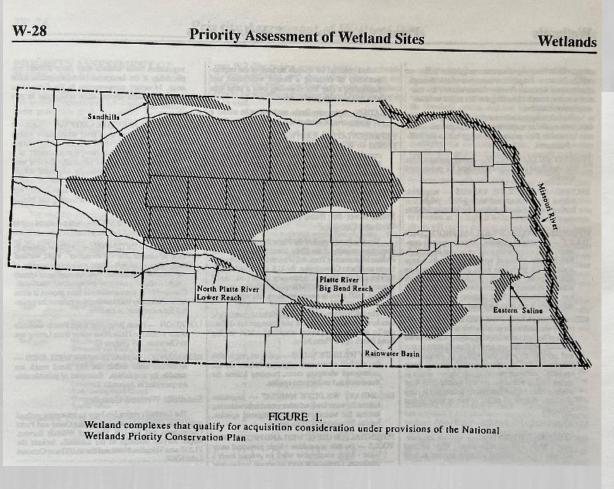
> LOWER PLATTE RIVER

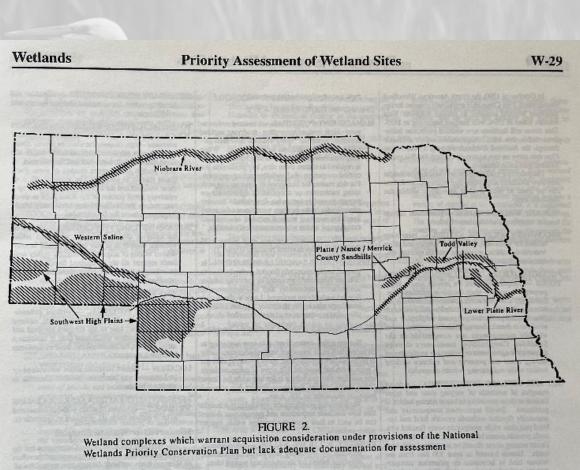




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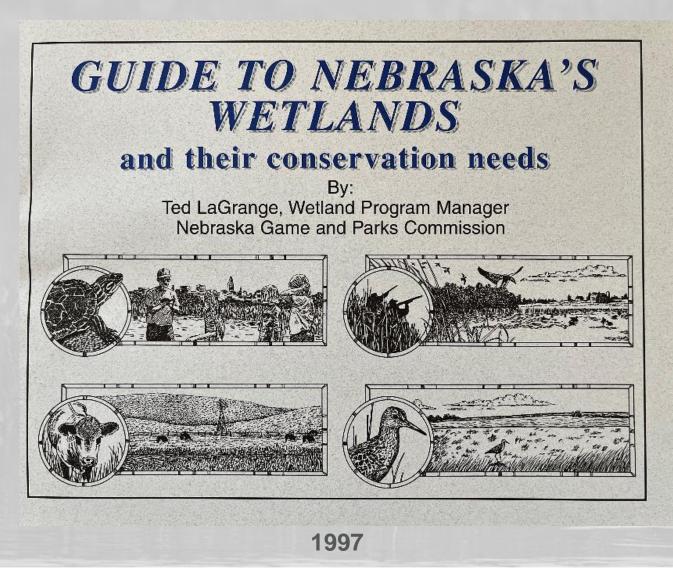


 W-4 Results - S WETLAND SITE 1 — RAINWATER BASIN WETLAND COMPLEX Wetland Assessment Summary Wetland Site Name: Rainwater Basin Wetland Complex Wetland Site Name: Rainwater Basin Wetland Complex USGS 1:24,000 Maps: Part or all of 109 quadrangles Township: 3N to 14N; Section: Many Longitude: 97'-100' Latinde: 40'-41' Cities: Hastings, Holdrege, York Counties: Adams, Buller, Clay, Fillmore, Franklin, Gosper, Hall, Hamitton, Harlan, Kearney, Nuckolls, Phelps, Polk, Saline, Seward, Thayer, and York State: Nebraska Ecoregion: 2531 and 2532 Size of Complex: 4,003 square miles Wetland Acres: 34,103 acres Date of Wetland Assessment: 9/89 and 12/90 WETLAND IOSS PRIORITY: 1 SIS THE WETLAND SITE THREATENED? YES Wildlife — YES Fisheries — NO Water Supply/Quality, Flood/Erosion Protection — YES Education and Research — YES CONCLUSION The Rainwater Basin Wetland Complex meets all threshold criteria and qualifies for acquisition considera- tion under provisions on the National Wetlands Priority Conservation Plan. 	ite 1: Rainwater Basin Wetland Wetland Assessment Narrative 1. WETLAND SITE DESCRIPTION WETLAND SITE DESCRIPTION WETLAND SITE DESCRIPTION WETLAND ROPETE The Rainwater Basin area encompasses 4,003 square miles within 17 counties in south-central Nebraska. Topographically recognized as the Loess Plains Region, this area is characterized by flat to gently rolling loess plains formed by deep deposits of silt-loam. Wetlands characteristic of the complex consist of wind-formed depressions with a nearly impermeable claypan subsoil. Surface water drainage is poorly developed resulting in numerous closed watersheds draining into depressions. Wetlands range in size from one to one thousand acress (NGPC 1984). WETLAND CLASSIFICATION Rainwater Basin wetlands generally can be classified as palustrine emergent temporarily, seasonally, and semipermanently flooded wetlands (Gersib et al. 1990a). O WETLAND LOSS Original soil survey maps from the early 1900s indicate that approximately 4,000 major wetlands totaling nearly 100,000 acres were present at the time of settlement. The Commission (1984) estimated that less than 10 percent (374) of original anajor wetlands and 22 percent (20,942) of original area indicate that plaustine systems of this area. Recent National Wetland Inventory efforts competed by the commission's major wetland trend analysis has course throughout all palustine systems of this area. Recent National Wetland Inventory efforts competend by indecatified and recent soi	Using modified National Wellands Priority Conservation Plan assessment criteria, the following welland loss priority ranking was developed using the Cowardin et al. (1979) classification system: Wetland Type Percent of Site Status a. P: EM: A 45% Decreasing b. P: EM: F 15% Decreasing c. P: EM: F 15% Decreasing c. P: EM: F 15% Decreasing c. P: EM: F 15% Decreasing Correasing wetland types _% of Site x 1 = 100 Stable wetland types _% of Site x 3 =

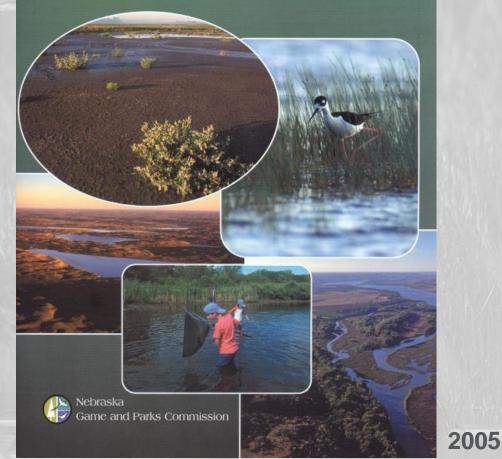
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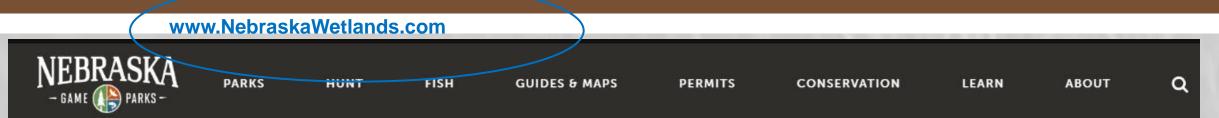
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Home > Learn > Nebraska Habitat > Wetlands

Wetlands of Nebraska

Take a deep dive into our newest wetlands resources, including expanded website content, documentaries featuring Nebraska's five main wetland types, classroom resources and more!

 \checkmark

Big Picture Priorities: Challenges and Opportunities

- Invasive Plant Species
 - All sites are/will be impacted
 - Create low-maintenance sustainable sites
- Hydrologic Connectivity
 - Total restoration is almost never possible
 - How much is "good enough" for success
- Wild Card = The Human Element
 - Changing Landowners
 - Changing Agency Staff
 - Competing Interests





Initial Restoration is Best Chance For Success – Make It Count • Soil Profile

- Removal of Fill and Sediment
- Maintaining and Replacing Topsoil
- Inoculate Wetland Soils Where Practical
- Hydrologic Connectivity



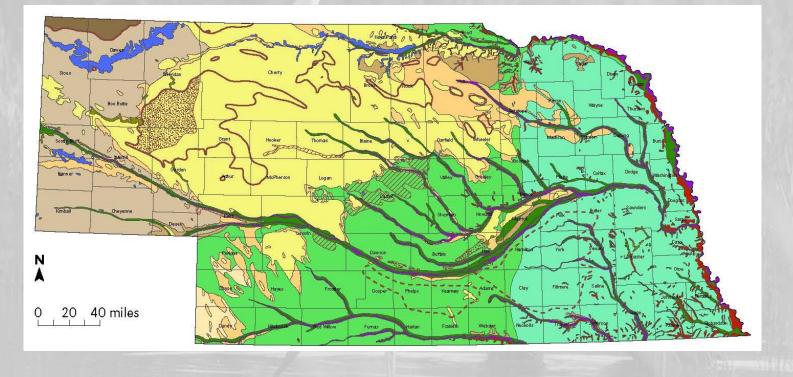
- Replace Features When Total Restoration Cannot Occur
- How much is "good enough" for success
- Plant Community
 - Diverse/Native Seed Sources
 - Adapt to Dynamic System



IRA Funding Priorities

NHQ requested priority areas

- Playa complexes
- Grassland biomes





Goals

- National Goals
- State Goals
 - 10% New Customers Annually

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