Restoration Efforts at Atlanta Waterfowl Production Area



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U.S. Fish and Wildlife Service

Rainwater Basin Wetland Management District

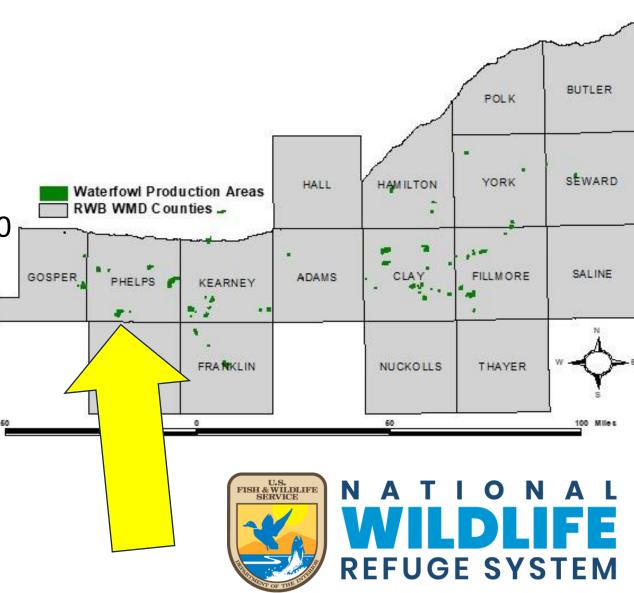
Rainwater Basin Wetland Management District

63 Waterfowl
 Production Areas in
 11 counties (most with a playa wetland basin surrounded by upland)

Approximately 25,000 acres

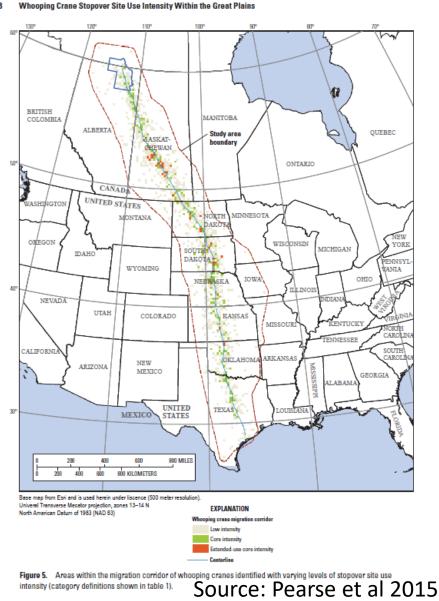
 Goals: Manage grassland habitat for migratory birds and other native plants and animals

Part of NWRS - 588
 NWRs and 38 WMDs
 = over 100 million
 acres



Heart of the Central Flyway





Atlanta Waterfowl Production Area

- Purchased in 1964
- 1,146 acres
- Previously farmed, but frequently flooded
- Initial management by USFWS was more "hands off"
- More intensive management began in the 1990s
 - Seeding back to native prairie
 - Cattle grazing to mimic historical disturbance
 - Reduction in irrigation pits in the watershed



Atlanta Waterfowl Production Area

• Challenge: Atlanta WPA did not exhibit increased ponding frequency, duration, or area.



Less valuable for migrating water birds

- Restoration experts came together to evaluate the wetland and the watershed
- Recommendations:
 - Remove areas of excessive sediment
 - Remove and reshape terraces and other runoff restriction areas
 - Watershed approach: 31 irrigation reuse pits within the identified
 - Prioritization developed to identify high storage capacity pits, and those closest to the wetland

Nebraska Environmental Trust Grant 14-143 (2013-2017)



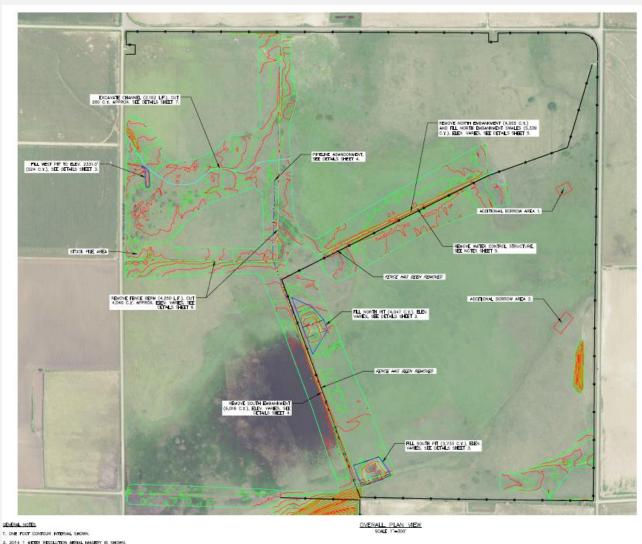








Berm removal and waterway cleanout





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3. ITALICIZED TEXT DENOTES EXETING FEATURE OR EXETING ELEVATION.

DUCKS PROMET NO. NE-4-2
UNLIMITED ATLANTA WPA

Terrace removal

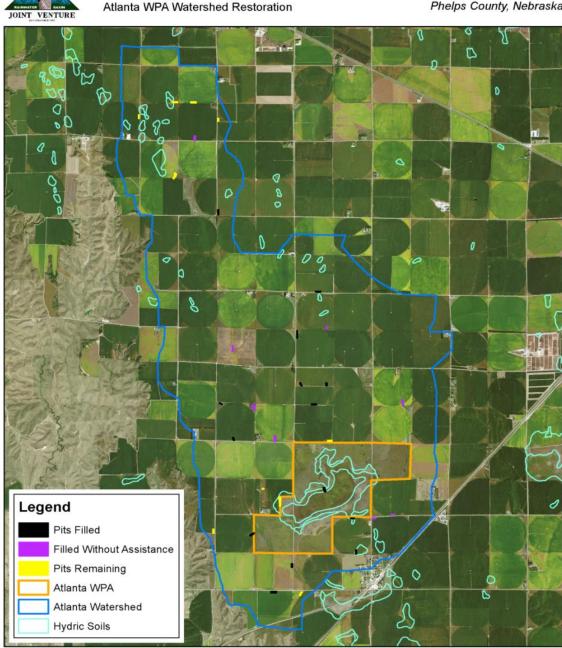
• 7.15 miles removed



Irrigation Reuse Pit Fills in the Watershed

- 37,800 cubic yards were removed form the WPA to fill irrigation reuse pits
- 2 pit fills were funded as part of a Watershed Restoration Initiative grant (NET 13-119)
- 11 pit fills in the watershed and 2 on the WPA were grant-funded
- Technical assistance was provided to additional landowners who were interested in filling their pits, 8 additional pits.

Total: 21 pit fills



1.9

2.85

0.475 0.95

- Increased runoff into the wetland by 97.3 acre feet
- Equivalent to 22 days of pumping
- Savings of \$7,400 each year



2018 PFW Project with Neighbor (to the West)

- Goal: Restore 12 acres of wetlands on private land, and 25 acres of wetlands on the WPA
- Remove trees from pit, shave down terraces
- Excavate sediment from hydric soils (16,403 cubic yards)
- 2 Pit fills
- Landowner installed new pivot tires to minimize impact to the wetland

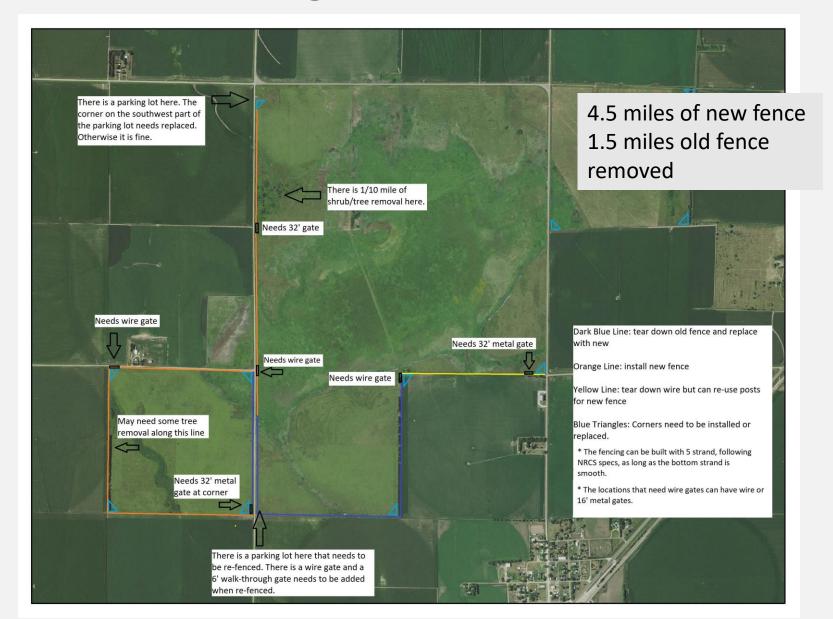


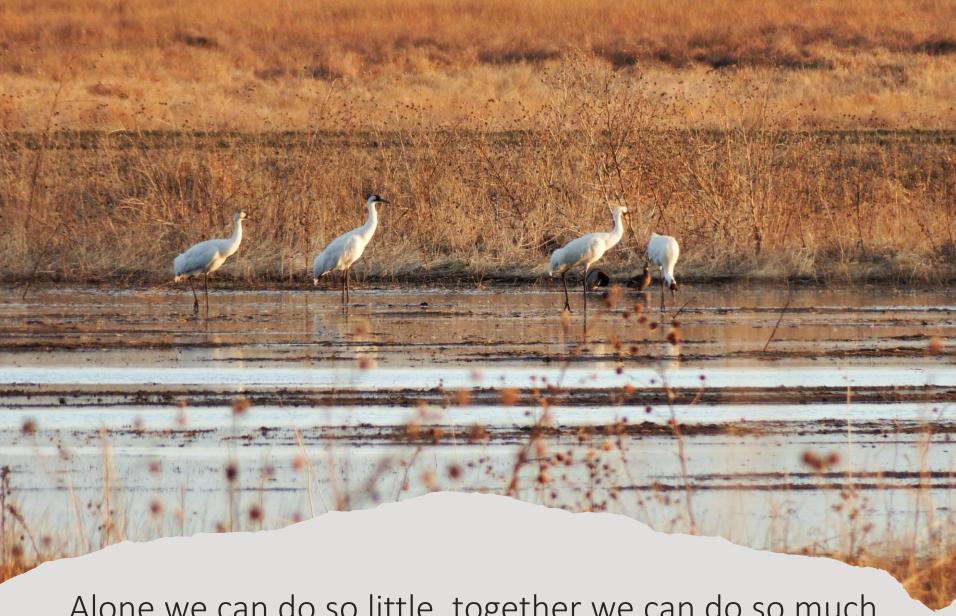
Water Infrastructure Improvements

- Diesel well replaced with high-capacity electric submersible well
- Underground pipe from the well to the wetland soon to be installed!
- Improved ability to provide seasonal flooding to the basin



Grazing Infrastructure





Alone we can do so little, together we can do so much. (Helen Keller)

We Thank Our Partners









