

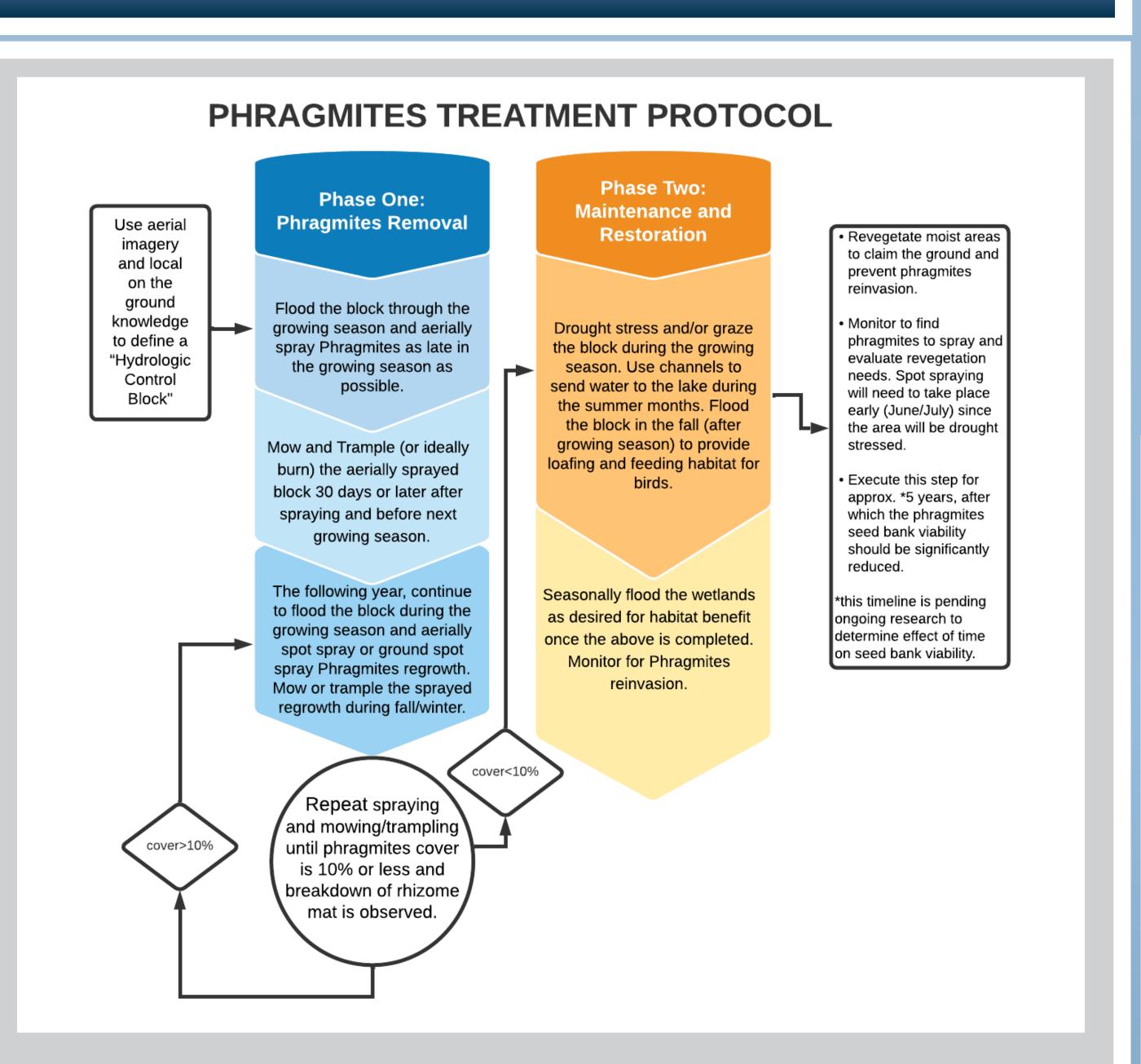
UTAH DEPARTMENT OF NATURAL RESOURCES

Divisions of Forestry, Fire & State Lands and Wildlife Resources **Great Salt Lake Phragmites Control and Restoration**



Keith Hambrecht, FFSL & Chad Cranney, DWR

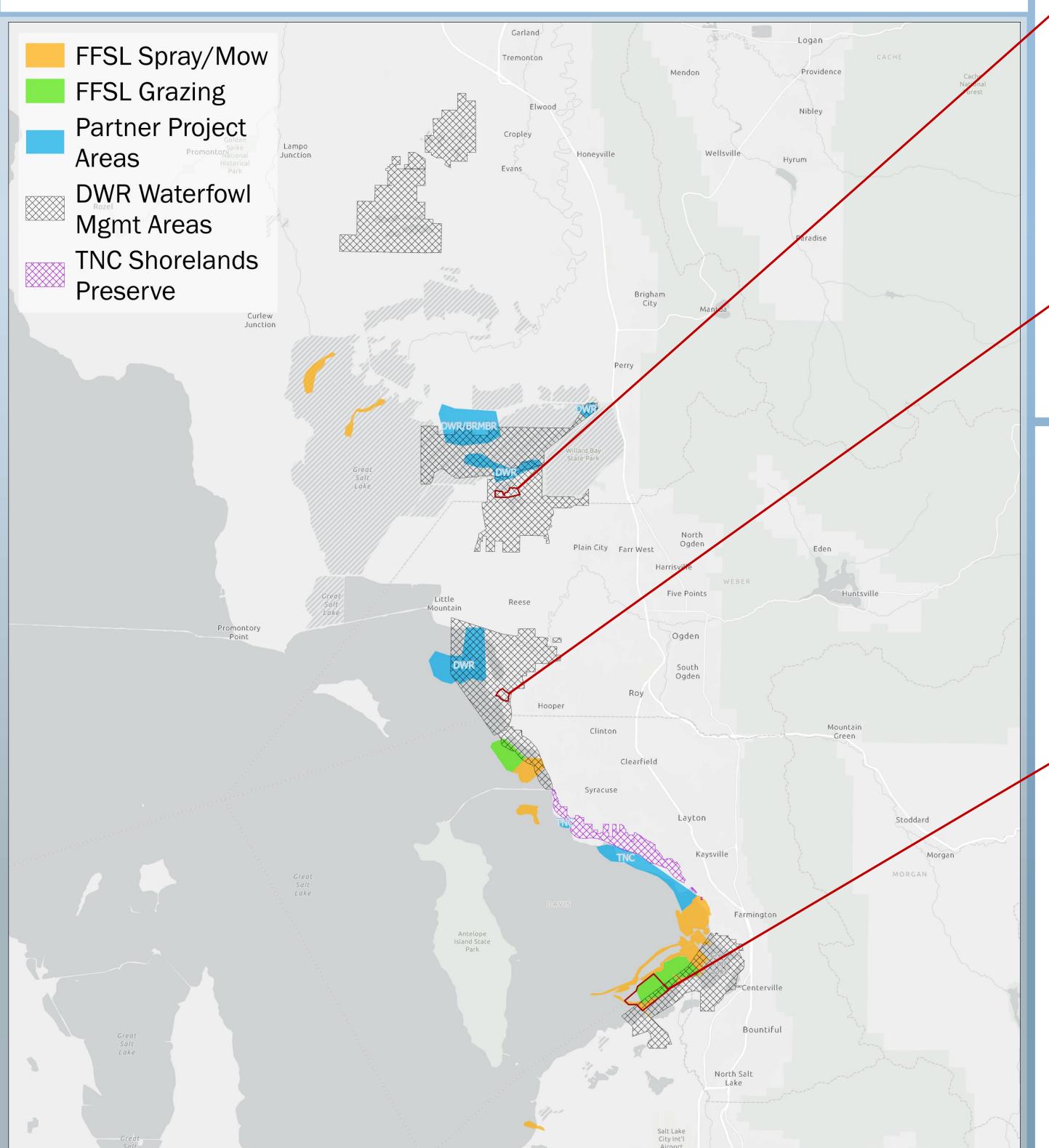
TREATMENT PROTOCOL



THE PROBLEM

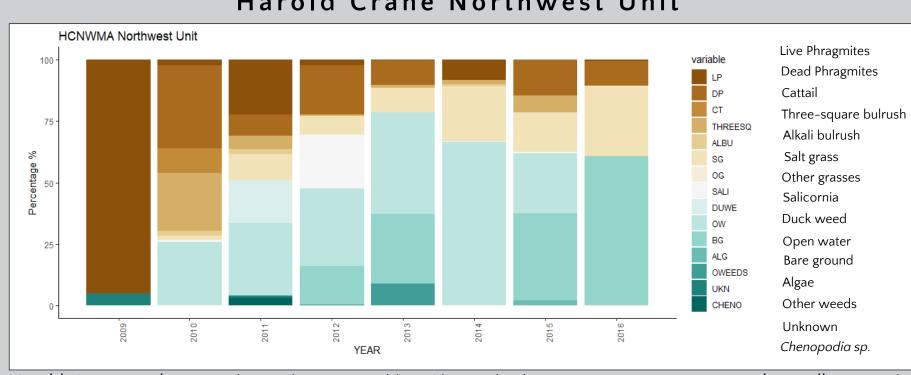
- Non-native, invasive Common Reed (Phragmites) covers approximately 23,000 acres of Great Salt Lake Wetlands, as of 2012.
- Phragmites disrupts hydrology and sediment transport reducing water availability for Great Salt Lake
- Phragmites converts diverse native habitat of sparse, patchy, low-lying vegetation and open water to impenetrable, dense, homogenous, fire-prone 12 foot tall vegetation with no open water - decimating migratory bird habitat.
- Phragmites significantly impedes access for recreation and rescue.

PROJECT AREAS

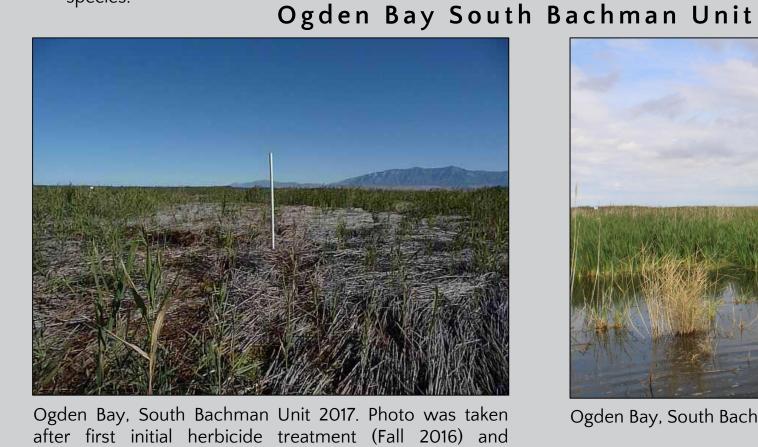


SUCCESSES





Harold Crane northwest unit species composition. Line-point intersect transects were used to collect species composition data. Pre-treatment (2009) data was collected by visual estimation of Phragmites vs. all other



Ogden Bay, South Bachman Unit 2021. After 5 years of treatments.

2021

After – 90+% Desirable Vegetation

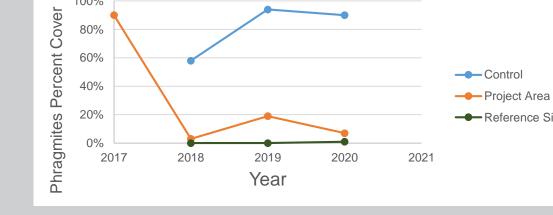
FFSL PROJECT SUCCESS

Turpin West 1,500 acres adjacent to Division of Wildlife Resources Farmington Bay Waterfowl Management Area Turpin Unit

2017 Before – 90+% Phragmites

trampling treatment Spring (2017).

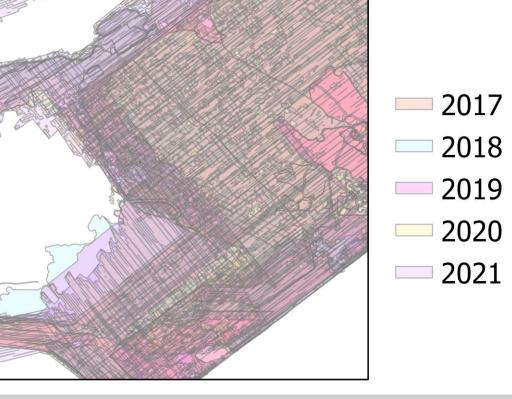
After 3 years of treatment, the Phragmites cover is 6.8%, on average, in this project area, which exceeds our goal of <10% average cover. Compare this to the untreated control area that has 90% Phragmites cover.



Turpin West Project UDAF Monitoring

Treatment History

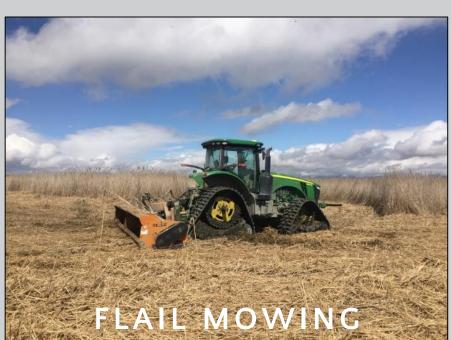
- 2017 August Aerial Spray
- 2018 March Flail Mow
- 2018 August Aerial and Ground Spray
- 2019 February Flail Mow
- 2019 June Hydroseed
- 2019 August Aerial and Ground Spray
- 2020 February Trample 2020 April – Broadcast Seed
- 2020 Summer Graze
- 2021 Summer Graze



Map showing treatment data used to track and manage these projects

TREATMENTS















CURRENT PHASE ONE PROJECT ACRES

FFSL 2021 Treatments

Aerial Spray: 3,532 acres Ground Spray: 111 acres covered Mowing: 3,258 acres

FFSL 2022 Proposed Treatments

Aerial Spray: 5,245+ acres Mowing: 4,800 acres

DWR 2021 Treatments

Aerial Spray: 1,765 acres Ground Spray: 3,660 acres covered (463 acres actually treated) Mowing: 200 + acres

DWR 2022 Proposed Treatments

Aerial Spray: 3,000 acres

(Over 1,000 acres on the Willard Spur WMA) Ground Spray: 450 acres

Mowing: 600-800 acres

PROJECT PARTNERS

Utah State University Wetland Ecology Lab The Nature Conservancy

DNR Watershed Restoration Initiative

Nation Audubon Society Bear River Migratory Bird Refuge Utah Dept. Of Agriculture And Food Central Davis Sewer District North Davis Sewer District Cache County **Box Elder County** Weber River Watershed CWMA Wasatch Wigeons