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Overview

Cedar Swamp is a 1,870-acre site, which includes a 1,863-acre restoration are, in New Castle County, Delaware. The site is owned by DNREC and Delaware Wildlands. Historically, the site was used for hunting and included a coastal recreation resort. Phragmites covered approximately 72 percent of the vegetated marsh plain before initiation of restoration activities. In addition to public hunting and wildlife observation, the Cedar Swamp site is currently used as an anchorage for commercial and recreational crabbing and fishing boats. Restoration has added more than 1,180 acres of desirable plant species and has reduced the Phragmites coverage to less than 8 percent. Wetland enhancement and restoration efforts began in 1995, and were completed in 2000.



Goals

The goal of enhancement and restoration efforts for the site were to:

- Expand spawning and nursery habitat for aquatic species
- Control / eliminate the invasive plant, *Phragmites*
- Allow Spartina spp. and other desirable marsh plants to re-vegetate
- Preserve wetlands and upland buffer



August 2017



Actions Taken

The EEP took the following actions to achieve the enhancement and restoration goals for the site:

- Utilized targeted aerial, ground and boat glyphosate-based herbicide treatments to control *Phragmites* and allow for *Spartina* spp. re-vegetation
- Studied 7 test areas to determine relative effectiveness of various treatments for *Phragmites* control / elimination



Other Enhancements

A number of additional enhancements to improve and enhance environmental education, public access and long-term use of the site exist, including:

desirable native vegetation

dominated wetland has been replaced with

- Parking area
- Boat ramp

Continuing Activities

As part of the long-term commitment to the restoration of this site, the EEP continues to:

- Monitor biological communities
- Monitor vegetation
- Control Phragmites

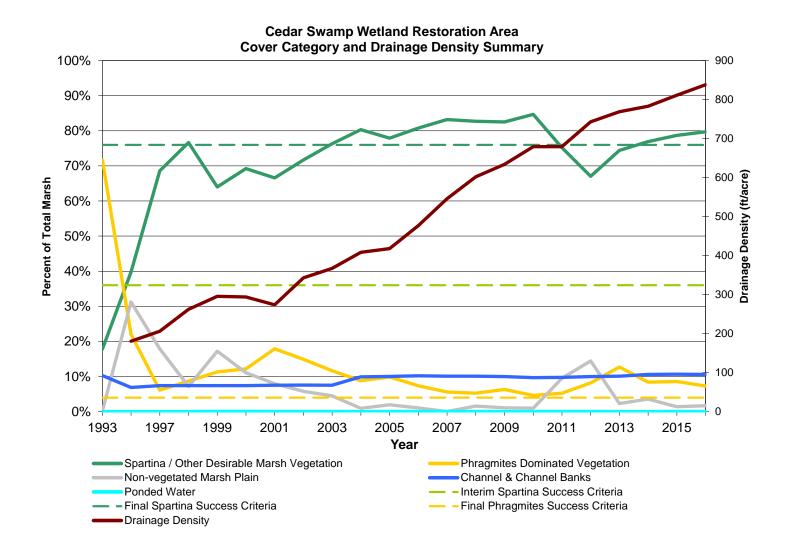


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Cedar Swamp Wetland Restoration Site Vegetative Cover Summary Chart

Phragmites (yellow line) dominated the wetland site prior to restoration activities; however, a rapid decline in the population followed herbicide treatments. As the *Phragmites* declined, *Spartina* (green line) was able to re-vegetate the area. The red line (linear feet of channel per acre) indicates the increased aquatic habitat at this site.



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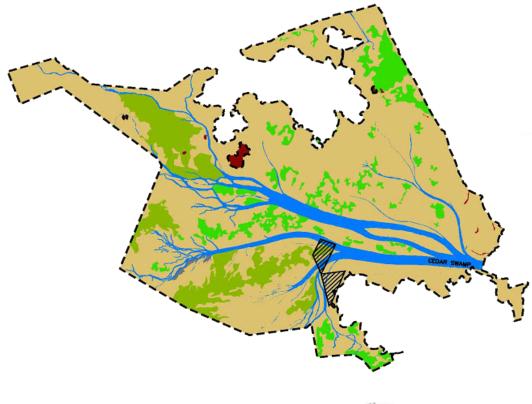


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Cedar Swamp Site - 1993

As shown by the tan shaded area, the Cedar Swamp Phragmites-dominated Wetland Restoration Site was dominated by Phragmites prior to restoration activities. Only scattered areas of Spartina and other desirable marsh vegetation (green shaded areas) were initially present.



Cedar Swamp Site - 2016

After control activities were implemented, the *Phragmites* (tan shaded areas) population declined and the site is now dominated by *Spartina* (green shaded areas).

