

# RIPARIAN RESTORATION PROJECT

# SWAYZE MILL LAKE HOPE TOWNSHIP

## Riparian Forest Buffers

Communities of trees, shrubs and other plants growing along streams and lakes.

## Buffer Benefits

Protect and enhance the water quality of streams and their aquatic environments by filtering non-point source pollutants such as sediment and nutrients from storm water runoff. Buffers also reduce streambank erosion and provide improved wildlife and fisheries habitat.

Additional Buffer Information:  
[www.northjerseyrcd.org](http://www.northjerseyrcd.org)  
or  
[www.rce.rutgers.edu/njriparianforestbuffers](http://www.rce.rutgers.edu/njriparianforestbuffers)



North Jersey  
Resource  
Conservation  
and  
Development

54 Old Highway 22  
Suite 201  
Clinton, NJ 08809-1389

Phone: 908-735-0733

Objectives of the Riparian Forest Buffer Projects were to demonstrate:

1. Effective site design utilizing naturally-occurring plant communities
2. Design flexibility that can incorporate such things as aesthetics, recreation & environmental benefit to a waterway in a natural area
3. The use of native plants
4. Control lakeshore erosion

Waterway Buffered: Swayze Mill Lake

Location: Swayze Mill Recreation Area, Hope Township, Warren County

Description: The property is a municipal wildlife refuge with a 50 acre lake. The remainder of the property is composed of forest, fields and a swamp. The area includes both an active and passive recreation area. It also has a designated natural resource area. Invasive vegetation including autumn olive and multi-floral rose are present. Site preparation included the clearing of this vegetation. The completed buffer consists of 74 native trees representing 10 different species, 304 native shrubs representing 9 different species.

Size: 2,640 feet long , 4.8 acres

Planting Date: April 2006

Total Cost: \$10,729.00



Site prior to planting March 2005

# RIPARIAN RESTORATION PROJECT

# SWAYZE MILL LAKE HOPE TOWNSHIP

## Dominant Trees & Shrubs Planted

### Trees:

- Red Maple
- Shadbush
- River Birch
- American Hornbeam
- White Ash
- Eastern Red Cedar
- Sycamore
- Red Oak
- Black Willow

### Shrubs:

- Smooth alder
- Buttonbush
- Silky Dogwood
- Grey Dogwood
- Red osier dogwood
- Winterberry Holly
- Pussy Willow
- Southern Arrowwood
- Blackhaw

## Additional Buffer Information:

[www.northjerseyrcd.org](http://www.northjerseyrcd.org)  
or  
[www.rce.rutgers.edu/njriparianforestbuffers](http://www.rce.rutgers.edu/njriparianforestbuffers)

**Project Partners & Volunteers:** The riparian forest buffer demonstration is part of a larger regional project, it was coordinated and implemented by North Jersey RC&D. The design was created by North Jersey RC&D and Natural Resources Conservation Service (NRCS) staff. Volunteers from Hope Township Department of Public Works and the NJ Department of Corrections Labor Assistance Program were invaluable participants in the planting and establishment of this planting site.

**Project Funding:** Originated from U.S. Environmental Protection Agency Nonpoint Source Pollution 319h grant program administered by the NJ Department of Environmental Protection through a grant awarded to the North Jersey RC&D. Additional funds used were obtained through the NRCS Wildlife Habitat Incentives Program (WHIP).

### Design Components

1. Buffer Installation: deer resistant species, install beaver protection
2. Over plant to discourage geese entering the lakeshore from the water
3. Improve the overall aesthetics of the lakeshore by removing invasive vegetation and replacing with larger native trees and shrubs



During planting May 2006