

# DEPARTMENT OF ENVIRONMENTAL PROTECTION

## INLAND FISHERIES DIVISION

### POLICY STATEMENT

#### RIPARIAN CORRIDOR PROTECTION

##### I. INTRODUCTION, GOALS, AND OBJECTIVE

Alteration and exploitation of riparian corridors in Connecticut is a common event that significantly degrades stream water quality and quantity. Inasmuch as riparian ecosystems play a critical role in maintaining aquatic resource productivity and diversity, the Inland Fisheries Division (Division) recognizes that rigorous efforts are required to preserve, protect, and restore these valuable resources. Consequently, a riparian corridor protection policy has been developed to achieve the following goals and objective:

##### Goals

Maintain Biologically Diverse Stream and Riparian Ecosystems, and

Maintain and Improve Stream Water Quality and Water Quantity.

##### Objective

Establish Uniform Riparian Corridor Buffer Zone Guidelines.

##### II. DEFINITIONS

For the purpose of implementing a statewide riparian corridor protection policy, the following definitions are established:

Riparian Corridor: A land area contiguous with and parallel to an intermittent or perennial stream.

Buffer Zone: An undisturbed, naturally vegetated area adjacent to or contained within a riparian corridor that serves to attenuate the effects of development.

Perennial Stream: A stream that maintains a constant perceptible flow of water within its channel throughout the year.

Intermittent Stream: A stream that flows only in direct response to precipitation or which is seasonally dry.

##### III. RIPARIAN FUNCTION

Naturally vegetated riparian ecosystems perform a variety of unique functions essential to

a healthy instream aquatic environment. The delineation and importance of riparian functions are herein described. Vegetated riparian ecosystems:

- Naturally filter sediments, nutrients, fertilizers, and other nonpoint source pollutants from overland runoff.
- Maintain stream water temperatures suitable for spawning, egg and fry incubation, and rearing of resident finfish.
- Stabilize stream banks and stream channels thereby reducing instream erosion and aquatic habitat degradation.
- Supply large woody debris to streams providing critical instream habitat features for aquatic organisms.
- Provide a substantial food source for aquatic insects which represent a significant proportion of food for resident finfish.
- Serve as a reservoir, storing surplus runoff for gradual release into streams during summer and early fall base flow periods.

#### **IV. RIPARIAN CORRIDOR BUFFER ZONE GUIDELINES**

Recognizing the critical roles of riparian corridors, the Division provides buffer zone guidelines that are designed to bring uniformity and consistency to environmental review. The guidelines are simple, effective, and easy to administer. The following standard setting procedure should be used to calculate buffer zone widths.

**Perennial Stream: A buffer zone 100 feet in width should be maintained along each side.**

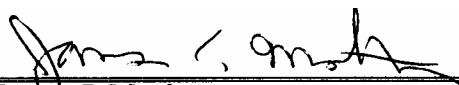
**Intermittent Stream: A buffer zone 50 feet in width should be maintained along each side.**

Buffer zone boundaries should be measured from either, (1) edge of riparian inland wetland as determined by Connecticut inland wetland soil delineation methods or (2) in the absence of a riparian wetland, the edge of the stream bank based on bank—full flow conditions.

The riparian corridor buffer zone should be retained in a naturally vegetated and undisturbed condition. All activities that pose a significant pollution threat to the stream ecosystem should be prohibited.

Where the Division policy is not in consonance with local regulations and policies regarding riparian corridor buffer zone widths and allowable development uses within these areas, local authorities should be encouraged to adopt the more restrictive regulations and policies.

12/13/91  
Date

  
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Acting Director