

Pennsylvania Chapter 105 Riverine Compensation Overview

ASWM Webinar April 17, 2014

Aquatic Resources

* Riverine

- Intermittent and perennial wadeable watercourses and their floodways/floodplains
- * Utilize resource condition assessment or intensive evaluation methods (i.e. IBI)
 - Proposed Level 2 Procedures (5 Indices)
 - * Channel Condition
 - * Riparian Vegetation (floodplain)
 - * Riparian ZOI Vegetation
 - * Instream Habitat
 - * Channel Alteration



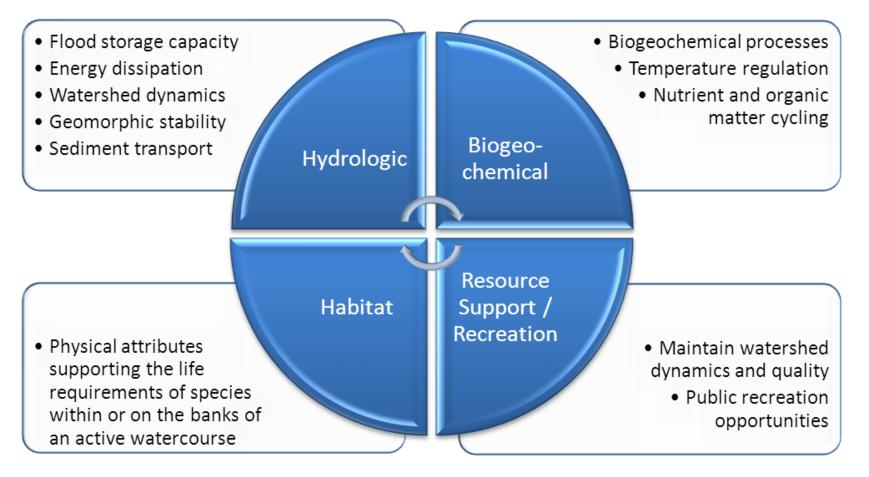
Standardized Function Approach

Establishes the same framework for all resource types

Function Group	Wetland	Riverine	Lacustrine	Description
Hydrologic (HYD)				Hydrodynamics, storage, baseflow
Biogeochemical (BGC)				Vegetation, soils and hydrology
Habitat (HAB)				Community and species level
Recreation (REC)				Public recreational opportunities
Resource Support (RS)				Role in maintaining water quality

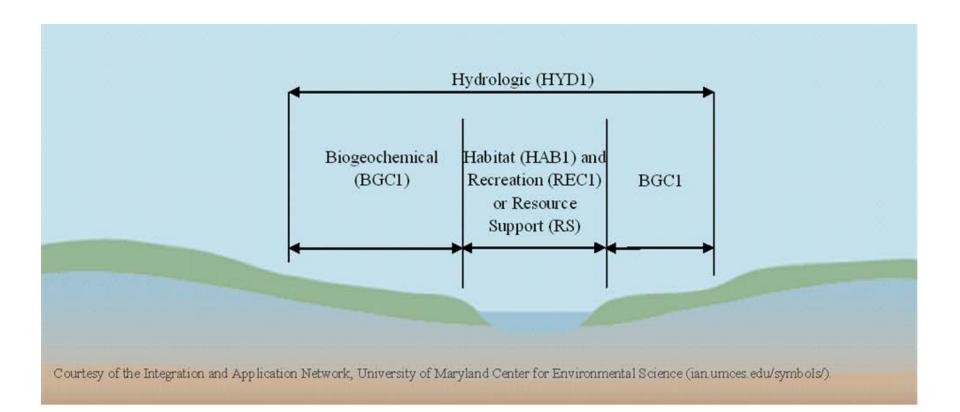


Riverine Function Groups





Standardized Function Approach





Establishing Impacts

- Impacts categorized as
 - * **Direct** loss of resource **area** and function
 - * Occurs through filling, draining, impounding
 - * Indirect loss of resource function only
 - * Occurs through alteration of chemical, physical or biological components of the resource



Standard Compensation Equation

- * Pennsylvania Function Based Compensation
 Protocol (Doc # 310-2137-001)
- * (CR) = AI x PE x RV x CI
 - * CR = Compensation Requirement
 - * AI = Area of Impact (in acres, 0.00)
 - * PE = Project Effect Factor
 - * RV = Resource Value
 - * CI = Condition Index Value (0.00) (from applicable resource condition assessment)





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