

GRRIP II Watershed Analysis for Dighton, MA

Estimates of Land Use, Impervious Surface and Annual Nonpoint Source Pollution Loads

2003 Land Use Types

- Crop Land
- Pasture
- Forest
- Non-Forested Wetland
- Mining
- Open Land
- Participation Rec.
- Spectator Rec.
- Water-based Rec.
- Multi-Fam. Res.
- High Density Res.
- Medium Dens. Res.
- Low Dens. Res.
- Salt Water Wetland
- Commercial
- Industrial
- Urban Open
- Transportation
- Waste Disposal
- Water
- Woody Perennial (includes Cranberry Bogs and Nurseries)

Land Use Allocation 973.9 acres



Land Use Area in Acres is 973.9
 Impervious Area is 38.5 Acres
 Percentage of Imperviousness = 4.0%
 Avg Annual Nitrogen Load = 3680.9 pounds
 Avg Annual Phosphorus Load = 454.9 pounds
 Avg Annual Suspended Solids = 177928.2 pounds

- ⊕ Drainage System
 - Potential Vernal Pools
 - Certified Vernal Pool
 - Public Water Supply
 - Public Beach
 - ★ Shellfish Beds
 - ★ Rarebird_noon
 - ★ Rarefish_noon
 - ★ Rareinsect_noon
 - ★ Rareplant_noon
 - ★ Rareinvertebrate_noon
 - ★ Raremammal_noon
 - ★ Rarebird_winter
 - ★ Rareinvertebrate_winter
 - ★ Raremammal_winter
 - Intermittent Wetland Protect
 - ▲ Cold Water Fisheries
 - ▲ Anadromous Fish Run
 - ▲ Critical Area after Storm Event
 - ▲ Wetlands
 - ▲ Solid Waste Facility
 - ▲ Estimated and Priority Habitats
 - ▲ ACEC
 - ▲ Zone 2
 - ▲ Zone B
 - ▲ Rivers and Streams
 - ▲ Lakes & Ponds
 - ▲ Road Island Towns
 - ▲ Other MA Towns
 - ▲ Town Boundary
 - ▲ Ocean
 - ▲ Transmission Lines
 - ▲ Railroad
- ### Roads (Mass Hwy Functional Classes)
- ▲ Local Rd. or Non-Eligible Functional Class Rd. (F-0/F-1)
 - ▲ Interest (F-1)
 - ▲ Rural Principal Arterial & Urban Ext (F-2)
 - ▲ Rural Minor Arterial & Urban Ext (F-3)
 - ▲ Other Urban Principal Arterial (F-4)
 - ▲ Urban Major Arterial or Rural Major Collector (F-4)
 - ▲ Urban Collector or Rural Minor Collector (F-4)

The GRRIP II (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP II analyzed towns in the SRPEDD together with the Narragansett and Taunton River Watersheds. The Watershed Analysis Project further details several of the drainage systems within each of these towns in the Narragansett and the Taunton River Watersheds to show the general health of the contributing watershed from the specified drainage system by extrapolating its area of imperviousness using the Scholar Watershed Hydrology and the Watershed Tool Extension developed by Mass GIS.

Map prepared by
 SRPEDD
 88 Broadway, Taunton MA
 August 2004

Watershed Analysis produced using the Watershed Tools Extension developed by Mass GIS.

This map was prepared by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the aerial digital data map have been supplied by the Massachusetts Executive Office of Environmental Affairs, MassGIS, Capital Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of Motor Vehicles, Division of Fisheries & Wildlife, Statewide Site Project, USGS, Joint Conservation Service, Coastal Law Management, National Oceanic & Atmospheric Administration (NOAA).

The location of features boundaries shown on this map are approximate and are provided for planning purposes only. This map is not intended for legal, engineering or survey purposes.

The funding for this project was provided by the Federal Highway Administration (FHWA) with Massachusetts Highway Department.



The analysis was done at a highway drainage point located on Center Street at Middle Street. The surface of the intersection and the bridge was recently resurfaced at the time of observation, including some new asphalt swales. Some deterioration of culvert support, also to old asphalt swale on the south side. Steep slopes drop to stream channel. This structure is in an area supporting a coldwater fishery, an anadromous fish run and a wellhead/water supply protection area.

