

GRRIP II Watershed Analysis for Carver, MA.

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


Watershed 2

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 759.7 acres

Forest (62.5%)
 Wetland (21.6%)
 Agriculture (22.2%)
 Crop Bldg & Pasture
 Open Land (22.5%)
 (incl. Crop Edge & Accessway)
 Recreation (2.5%)
 Commercial (24.5%)
 Industrial (2.1%)
 Transportation (22.2%)
 Water (2.1%)



Land Use Area in Acres is 759.7
 Impervious Area is 63.9 Acres
 Percentage of Imperviousness = 8.4%
 Avg Annual Nitrogen Load = 3105.0 pounds
 Avg Annual Phosphorus Load = 465.9 pounds
 Avg Annual Suspended Solids = 122850.7 pounds

- + Drainage System
 - Potential Vernal Pools
 - Certified Vernal Pool
 - Public Water Supply
 - * Public Bench
 - ★ Shellfish Beds
 - Rarebird_noon
 - Rarefish_noon
 - Rarecrustacean_noon
 - Rarereptile_noon
 - Rareinvertebrate_noon
 - 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 Rte. & Non-Express Functional Class Rpt (1-00-0)
 - ~ Interstate (F-5)
 - ~ Rural Principal Arterial & Urban Ext (F-2)
 - ~ Rural Minor Arterial & Urban Ext (F-3)
 - ~ Other Urban Principal Arterial (F-6)
 - ~ Urban Minor Arterial or Rural Major Collector
 - ~ Urban Collector or Rural Minor Collector (F-8)

Johns Pond

Vaughn Pond



Inset of Watershed Location

Point 1 is an alternate drainage point that shows an additional potential point source for contaminants into this particular watershed. The mix of commercial, agricultural and recreational land user in this area merits further investigation of stormwater impacts on water quality.

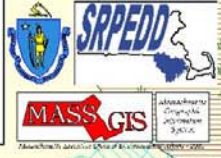
The GRRIP II (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP II analyses are in the SRPEDD register that fall within the Narragansett and Taunton River Watersheds. The Watershed Analysis Project further details several of the drainage systems within each of the 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 to area of imperviousness using the Scholar Watershed Methodology and the Watershed Tools 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.

Watershed Analysis is a tool developed by the Massachusetts Department of Transportation (SRPEDD) and the Massachusetts Department of Environmental Protection (MassDEP). It is a tool used to estimate the amount of impervious surface in a watershed and to estimate the amount of nonpoint source pollution that can be expected to be generated from that impervious surface. The tool is based on the Watershed Tools Extension developed by Mass GIS.

This report was prepared by SRPEDD (Statewide Regional Planning and Technical Development Division), Taunton, MA. Portions of the aerial digital data have been supplied by the Massachusetts Executive Office of Environment and Heritage Affairs, MassDEP, Capital Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of Motor Vehicle Services, Division of Fisheries & Wildlife, Department of Public Health, USGS, Solid Waste Management, Coastal Zone Management, National Oceanic & Atmospheric Administration (NOAA). The location of features from other sources 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.



0.5 Miles