

# 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 (11.6%)  
 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 (2.4%)



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
  - Rareinsect\_noon
  - Rareplant\_noon
  - Rarewildlife\_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 (I-9)
  - ~ Rural Principal Arterial & Urban Ext (1-2)
  - ~ Rural Minor Arterial & Urban Ext (1-3)
  - ~ Other Urban Principal Arterial (1-6)
  - ~ Urban Minor Arterial or Rural Major Collector
  - ~ Urban Collector or Rural Minor Collector (1-8)

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 focus on the SRPEDD region 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 was prepared for 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, Department of Public Health, USGS, Solid Waste Management, Coastal Land Management, National Oceanic & Atmospheric Administration (NOAA).

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

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0.5 Miles