

# GRRIP I Watershed Analysis for Mattapoissett, MA

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

- Drainage Systems
- Potential Vernal Pools
- Certified Vernal Pool
- Public Water Supply
- Public Beach
- Shellfish Beds
- Rarebird\_noon
- Rarefish\_noon
- Rarecutaneous\_noon
- Rareepile\_noon
- Rareholvive\_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**
  - Local Rds & Non-Eligible Functional Class Rds (F-0/F-6)
  - Interstate (F-1)
  - Rural Principal Arterial & Urban Ext (F-2)
  - Rural Minor Arterial & Urban Ext (F-3)
  - Other Urban Principal Arterial (F-4)
  - Urban Minor Arterial or Rural Major Collector
  - Urban Collector or Rural Minor Collector (F-6)

**Land Use Allocation**  
1053 acres

Forest (66.2%)  
Wetlands (27.2%)  
Agriculture (6.0%)  
Open Space (13.4%)  
Residential (19.2%)  
Commercial (10.1%)  
Water (10.0%)  
Transportation (2.2%)  
Waste (0.2%)

Land Use Area in Acres is 1053  
Impervious Area is 75.6 Acres  
Percentage Area of Imperviousness = 7.2%  
Avg Annual Nitrogen Load = 4528.8 pounds  
Avg Annual Phosphorus Load = 643.8 pounds  
Avg Annual Suspended Solids = 182813.5 pounds

- 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



These photos show a drainage system with overflow into the river when basin and pipe are full. Catch basin shows evidence of silt and vegetative debris and requires cleaning. General condition of the roadway is good.



These photos show a drainage system on Route 6 that has a catch basin with overflow pipes into the Mattapoissett River. Direct discharge into the river would only be through the wetlands and the overflow pipe. General condition of both the roadway and the storm drain is good.



The GRRIP I (Geographic Roadway Runoff Inventory) Program is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eligible Roads. GRRIP I analyzed towns in the SRPEDD region that fall within the Buzzards Bay Watershed. The Watershed Analysis Project further details several of the drainage systems within each of the towns in the Buzzards Bay Watershed to show the general health of the contributing watershed from the specified drainage systems by understanding its area of imperviousness using the Scholar WatershedModel technology and the Watershed Tools Extension developed by Mass GIS.

Disclaimer: This report is the result of a study conducted by SRPEDD and the Massachusetts Department of Transportation (MassDOT) in cooperation with the Massachusetts Department of Environmental Protection (MassDEP). The data used in this report was provided by the Massachusetts Department of Transportation (MassDOT) and the Massachusetts Department of Environmental Protection (MassDEP). The location of features shown on this map are approximate and are provided for planning purposes only. This map is not intended for legal or engineering purposes.

This report was prepared by SRPEDD (Southeastern Regional Planning and Economic Development District), Taunton, MA. Portions of the report data were provided by the Massachusetts Department of Environmental Protection (MassDEP), Commonwealth of Massachusetts, the Bureau of Transportation Planning & Development, Division of State Planning, Division of Planning & Policy, and the Federal Highway Administration (FHWA). The location of features shown on this map are approximate and are provided for planning purposes only. This map is not intended for legal or engineering purposes.

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