

GRRIP II Watershed Analysis for Somerset, MA

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

2003 Land Use Types

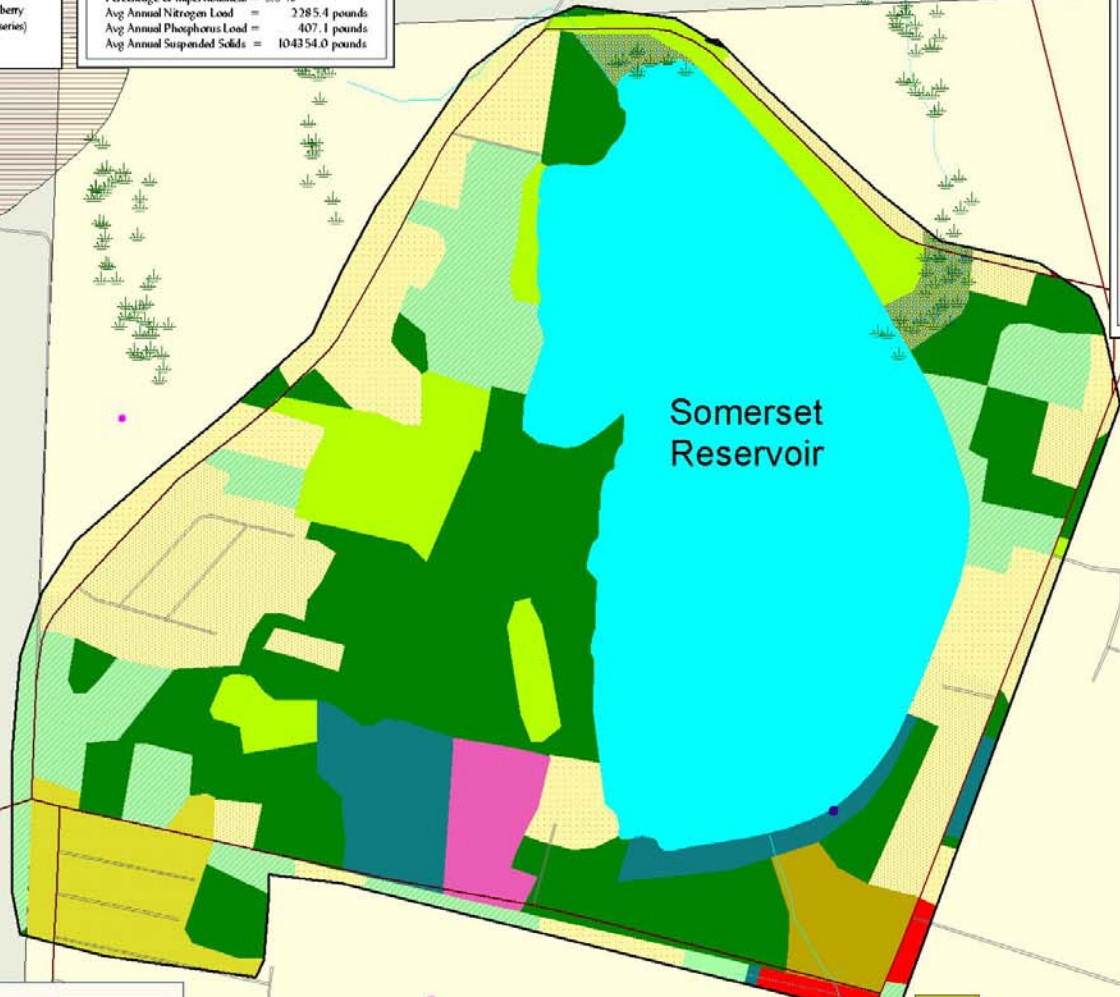
- Crop Land
- Pasture
- Forest
- Non-Forested Wetland
- Mining
- Open Land
- Participation Rec.
- Spectator Rec.
- Water-based Rec.
- Multi-Fam. Res.
- High Density Res.
- Medium Dens. Res.
- Low Dens. Res.
- Salt Water Wetland
- Commercial
- Industrial
- Urban Open
- Transportation
- Waste Disposal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

Land Use Allocation 537.6 acres

Non-Forest (17.5%)
 Wetlands (21.2%)
 Agriculture (41.4%)
 Cropland & Pasture
 Open Land (17.8%)
 Recreation (10.4%)
 Residential (17.3%)
 Commercial (10.4%)
 Industrial (1.9%)
 Transportation (10.2%)
 Water (1.9%)

Land Use Area in Acres is 537.6
 Impervious Area is 29.3 Acres
 Percentage of Imperviousness = 5.5 %
 Avg Annual Nitrogen Load = 2385.4 pounds
 Avg Annual Phosphorus Load = 407.1 pounds
 Avg Annual Suspended Solids = 104354.0 pounds

- Drainage System
 - Potential Vernal Pools
 - Certified Vernal Pools
 - Public Water Supply
 - Public Beach
 - Shellfish Beds
 - Rarebird_nosa
 - Rarefish_nosa
 - Raremacroin_nosa
 - Rareinvertebr_nosa
 - Rareplant_nosa
 - Rarevertebr_nosa
 - 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 & Non-Eight Functional Class Rte (F-0F-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 (F-5)
 - Urban Collector or Rural Minor Collector (F-6)



90% of this subwatershed is located in a Zone B Protection Area.



1
Labor in Vain Brook at Route 138



2
Labor in Vain Brook at Route 138

Labor in Vain Brook at Route 138; asphalt swale from Rte. 138 and 3" cement pipe and headwall at the brook. Very low slow flow upon observation. Water silty. Some exposed rebar and crumbling of cement at culvert. Some fracturing asphalt in the swale. Street grates over drain needed cleaning.

The GRRIP II (Geographic Roadway Runoff Inventory Program) is an analysis of roadway drainage facilities located in environmentally sensitive areas on defined Federal Aid Eighty Roads. GRRIP II analyzed towns in the SRPEDD regions fall within 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 WatershedModelogy 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.

This analysis was prepared for the Narragansett Regional Planning and Economic Development District, Taunton, MA. Portions of the aerial digital data may have been supplied by the Massachusetts Executive Office of Environmental Affairs, Massachusetts, Capital Corporation of Taunton, MA, SRP, the Bureau of Transportation Planning & Development, Division of Motor Vehicles, Division of Fisheries & Wildlife, State Park and Forest, USGS, Solid Construction Service, Central Law Management, National Oceanic & Atmospheric Administration (NOAA).

The location of feature boundaries shown on this map are approximate and are intended 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.



Inset of Watershed Location

0 300 600 Feet