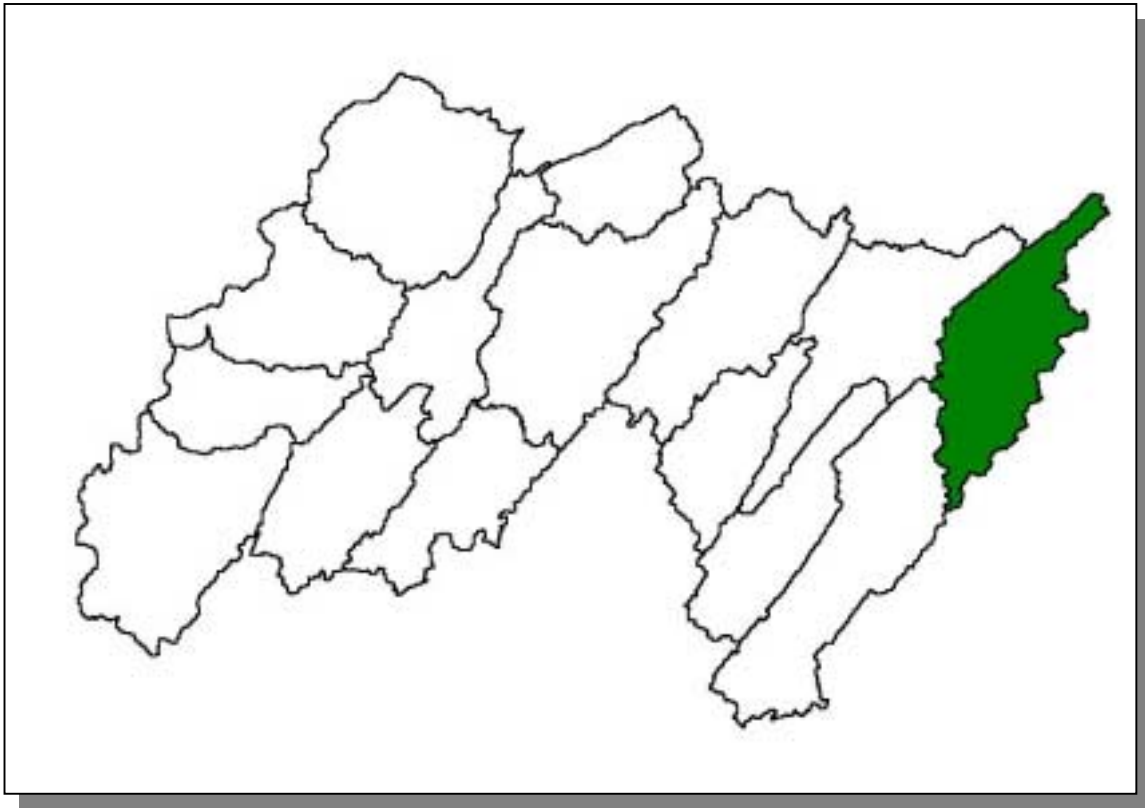
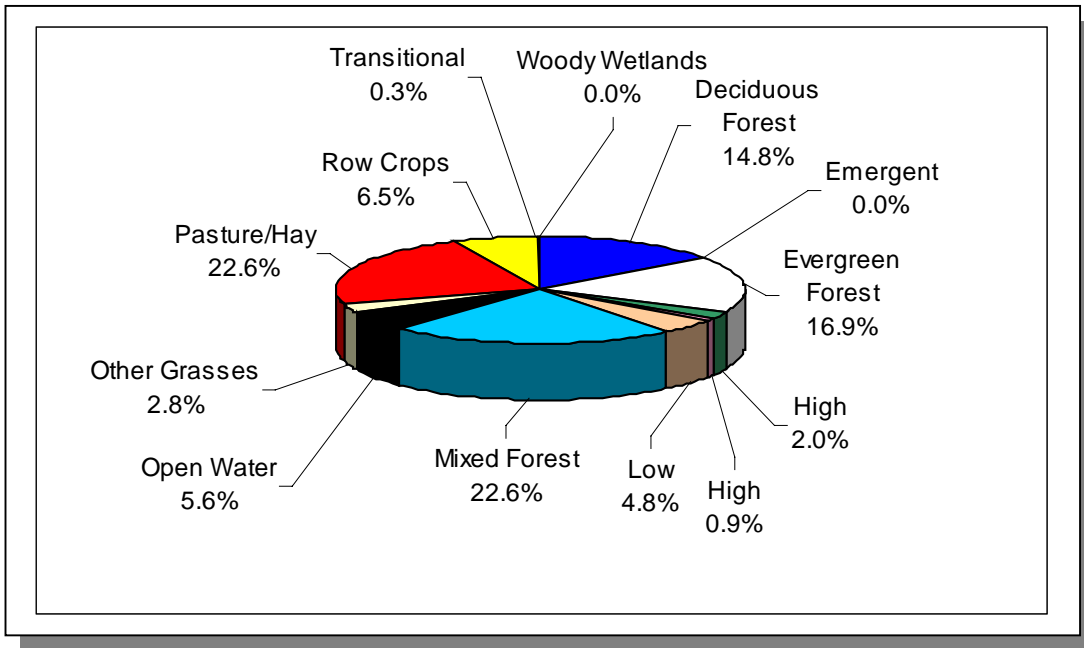


4.2.A. 06010201140.

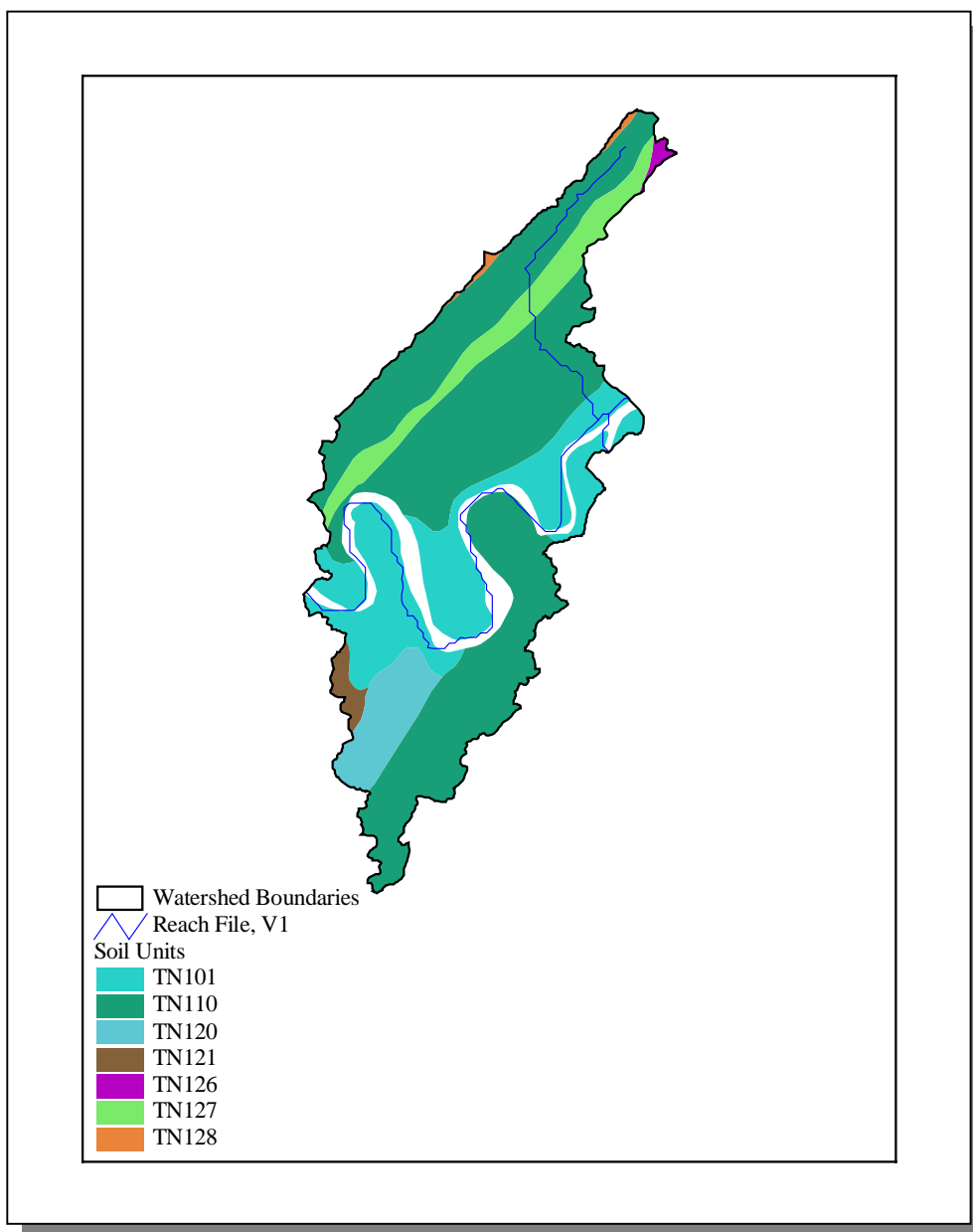


*Figure 4-2. Location of Subwatershed 06010201140. All Watts Bar HUC-14 subwatershed boundaries are shown for reference.*

**4.2.A.i. General Description.**



**Figure 4-3. Land Use Distribution in Subwatershed 06010201140.** More information is provided in Watts Bar-Appendix IV.



**Figure 4-4. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201140.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN101	0.0	B	1.71	5.39	Loam	0.35
TN110	0.0	B	2.22	4.96	Loam	0.31
TN120	0.0	B	1.68	5.11	Loam	0.27
TN121	0.0	B	1.30	5.21	Loam	0.33
TN126	19.0	C	1.30	5.12	Loam	0.33
TN127	3.0	C	1.31	5.20	Loam	0.35
TN128	0.0	C	1.30	6.53	Clayey Loam	0.26

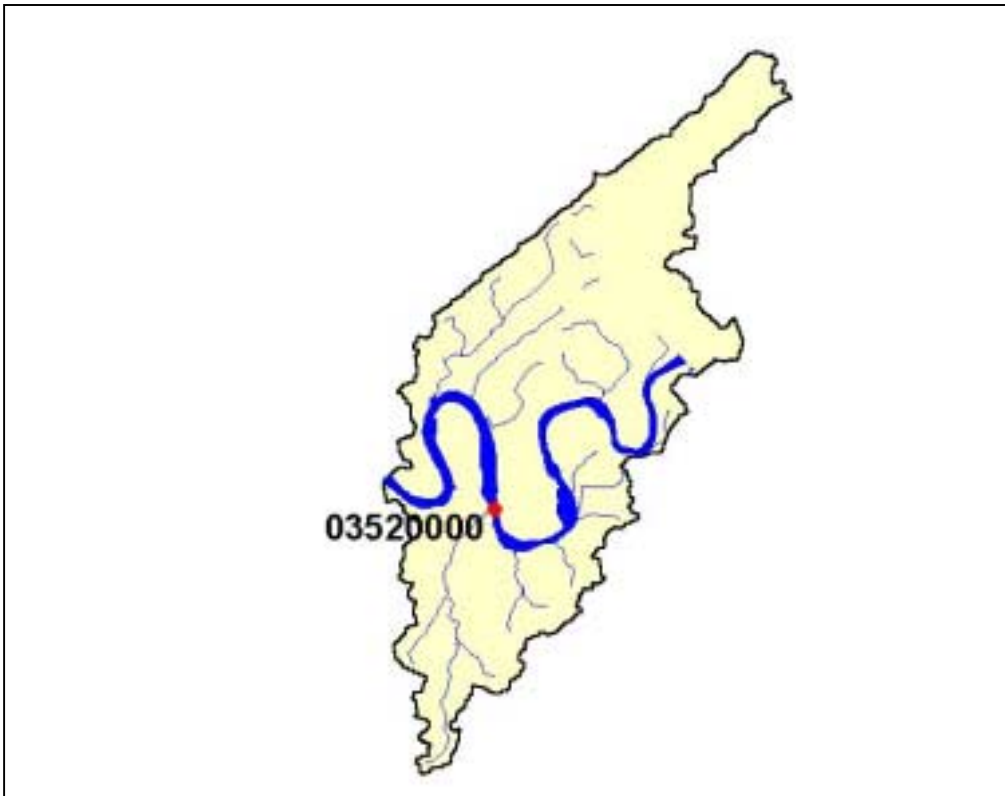
**Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201140.** More details are provided in Watts Bar-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		% CHANGE
	1990	1997 Est.		1990	1997	
Loudon	31,255	38,245	18.3	5,733	7,015	22.4
Monroe	30,541	33,953	<0.1	10	11	10.0
<b>Total</b>	<b>61,796</b>	<b>72,198</b>		<b>5,743</b>	<b>7,026</b>	<b>22.3</b>

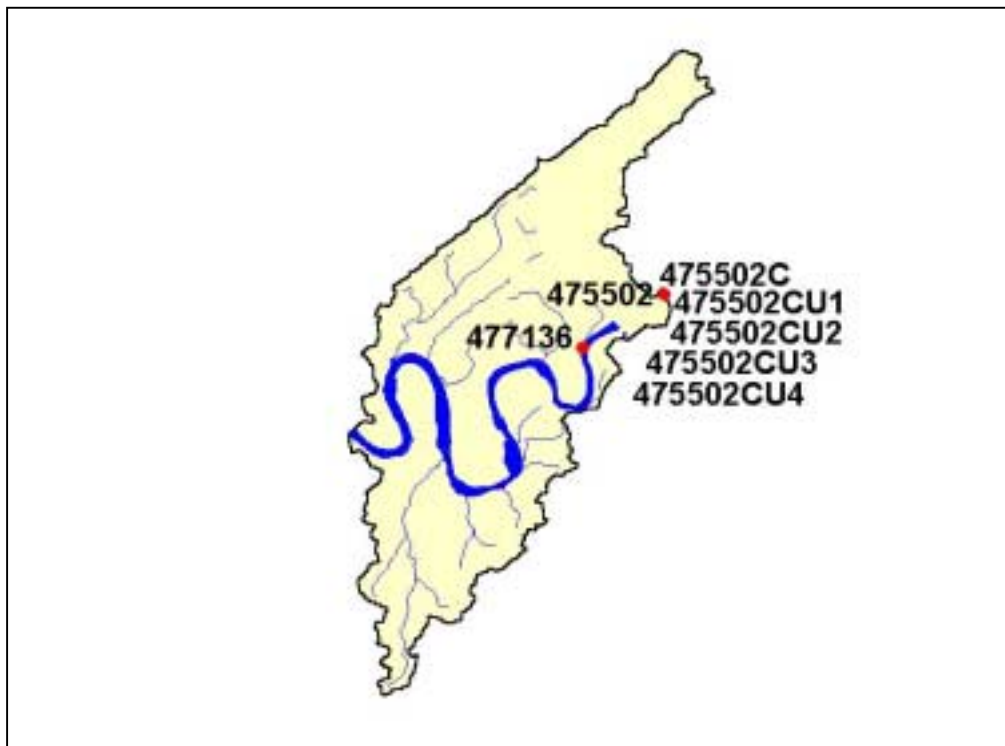
*Table 4-3. Population Estimates in Subwatershed 06010201140.*

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Farragut	Knox	12,804	4,463	3,392	1,064	7
Lenoir City	Loudon	6,147	2,734	2,524	202	8
Loudon	Loudon	1,832	1,832	1,701	131	0
<b>Total</b>		<b>20,783</b>	<b>9,029</b>	<b>7,617</b>	<b>1,397</b>	<b>15</b>

*Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 06010201140.*

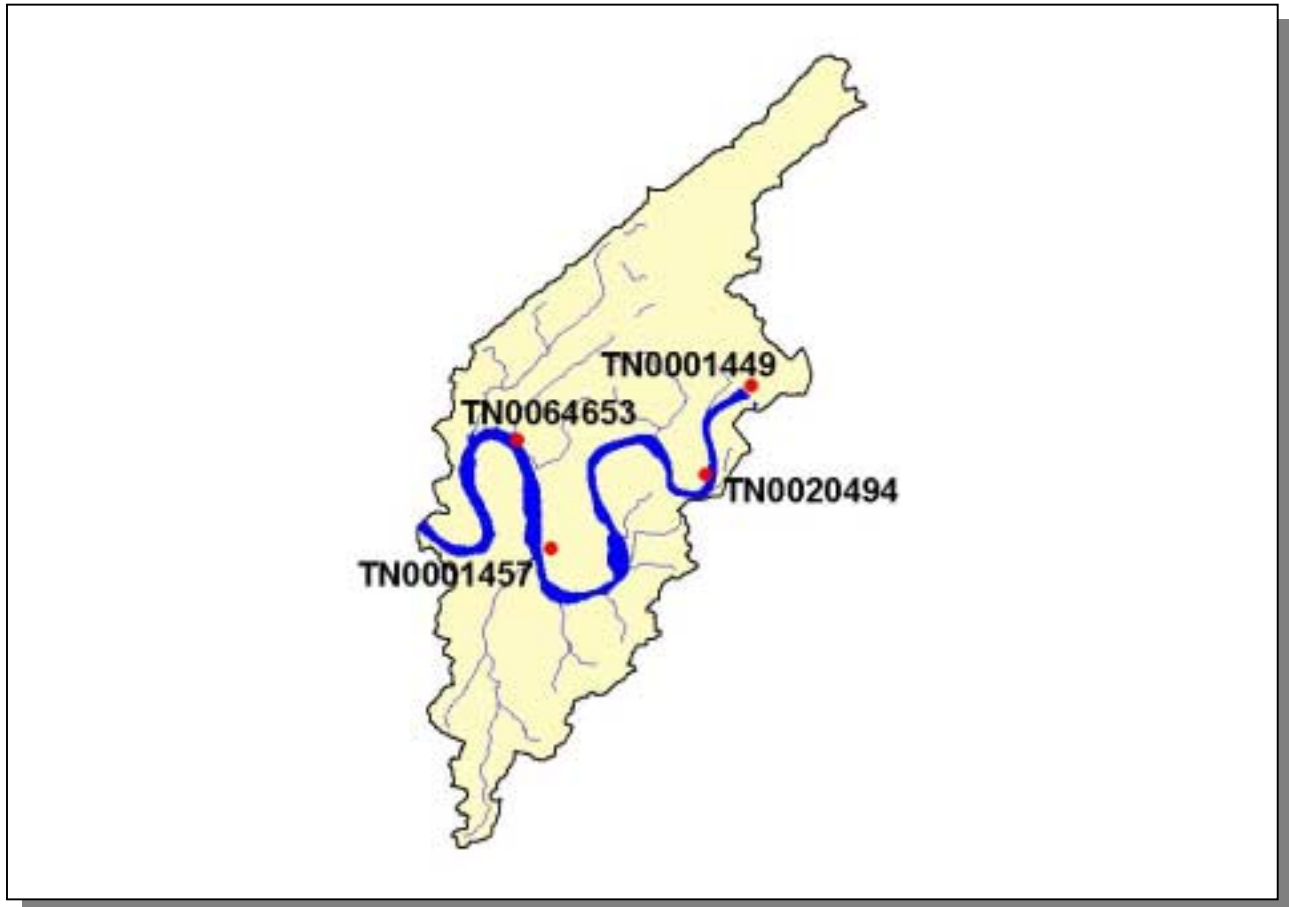


**Figure 4-5. Location of Historical Streamflow Data Collection Sites in Subwatershed 06010201140.** More information is provided in Watts Bar-Appendix IV.



**Figure 4-6. Location of STORET Monitoring Sites in Subwatershed 06010201140.** More information is provided in Watts Bar-Appendix IV.

#### 4.2.A.ii Point Source Contributions.

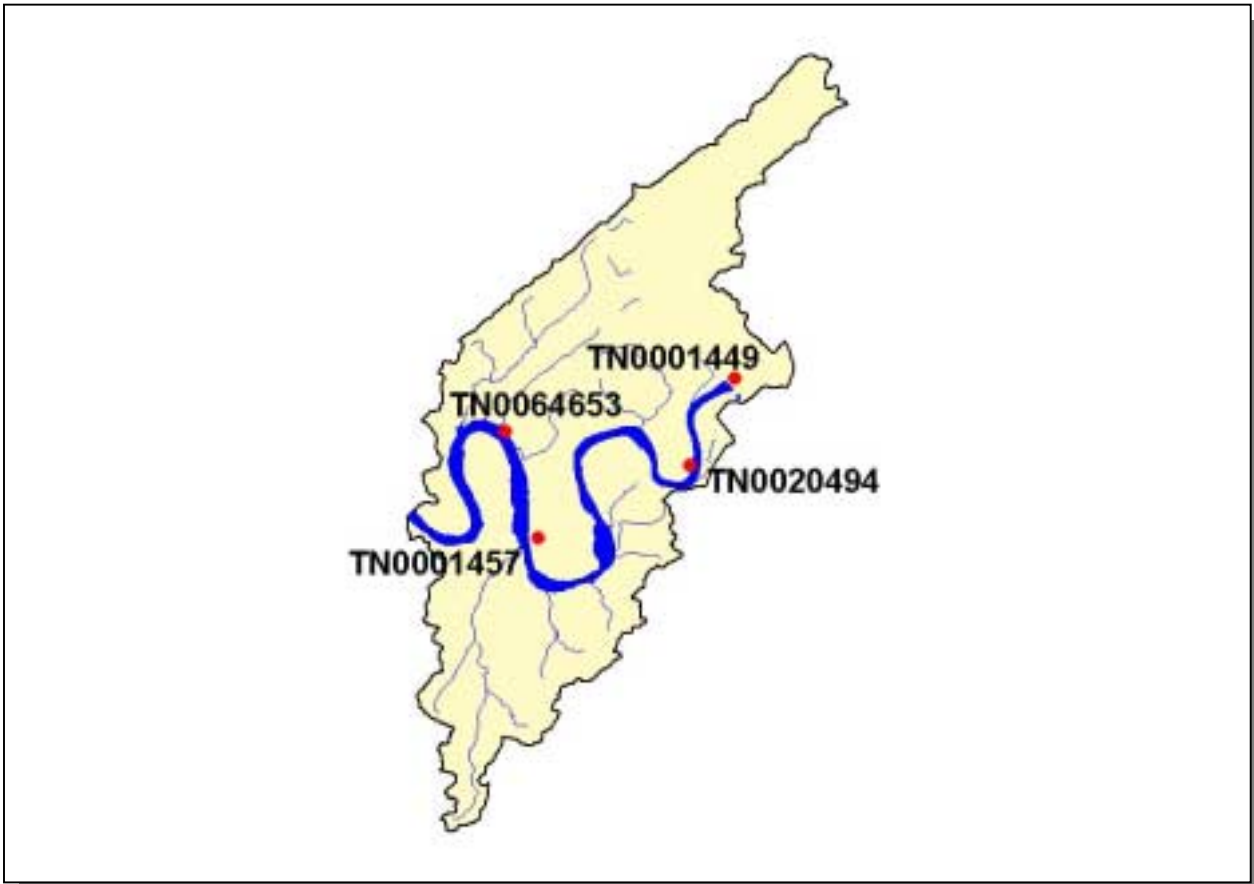


**Figure 4-7. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 06010201140.** More information, including the names of facilities, is provided in Watts Bar-Appendix IV.

#### 4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List

There are four NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 06010201140:

- TN0001449 discharges to Tennessee River @ RM 600.1
- TN0001457 discharges to Tennessee River @ RM591.8
- TN0020494 discharges to Tennessee River @ RM 600.1
- TN0064653 discharges to Hubbard Branch and Tennessee River @ RM 589.7 and Unnamed Trib and Tennessee River @ RM 590.0



**Figure 4-8. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 06010201140.** The names of facilities are provided in Watts Bar-Appendix IV.

PERMIT #	7Q10	1Q20	30Q2	QDESIGN	QLTA
TN0001449		1,248	7,693		0.0667
TN0001457		1,248	7,693		1.682
TN0020494	6,790	1,930	11,900	2.0	6.935
TN0064653					

**Table 4-5. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201140.** Data are in million gallons per day (MGD). 30Q2 data were obtained by using data in *Flow Duration and Low Flows of Tennessee Streams Through 1992*.

PERMIT #	CBOD <sub>5</sub>	NH <sub>3</sub>	FECAL	METAL
TN0001449				X
TN0001457	X			X
TN0020494	X		X	
TN0064653	X			

**Table 4-6. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201140.**

PERMIT #	Ag	Zn	Ni	Pb	TSS	SS	CD	Cr	Cu	SULFIDE	DO
TN0001449	X	X	X	X	X		X	X	X		
TN0001457					X	X				X	X

**Table 4-7a. Inorganic Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201140.**

PERMIT #	CN	TTO	TOTAL PHENOL	O&G
TN0001449	X	X		X
TN0001457			X	X

**Table 4-7b. Organic Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 06010201140.** TTO, Total Toxic Organics, O&G, oil and grease.

**4.2.A.iii. Nonpoint Source Contributions.**

LIVESTOCK (COUNTS)					
Beef Cow	Milk Cow	Cattle	Chickens	Hogs	Sheep
1,703	573	4,110	<5	14	45

**Table 4-8. Summary of Livestock Count Estimates in Subwatershed 06010201140.** According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Loudon	62.3	62.3	1.1	3.5
Monroe	301.5	279.1	7.4	21.4
<b>Total</b>	<b>363.8</b>	<b>341.4</b>	<b>8.5</b>	<b>24.9</b>

**Table 4-9. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 06010201140.**



<b>CROP</b>	<b>TONS/ACRE/YEAR</b>
Corn (Row Crops)	3.18
Tobacco (Row Crops)	2.98
Grass (Hayland)	0.86
Legume (Hayland)	0.77
Legume Grass (Hayland)	0.93
Grass (Pastureland)	1.03
Grass, Forbs, Legumes (Mixed Pasture)	0.56
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Farmsteads and Ranch Headquarters	0.12
Wheat (Close Grown Cropland)	2.81
Non Agricultural Land Use	0.00
Soybeans (Row Crops)	12.82

**Table 4-10. Annual Estimated Total Soil Loss in Subwatershed 06010201140.**