4.2.A. 0801020801.

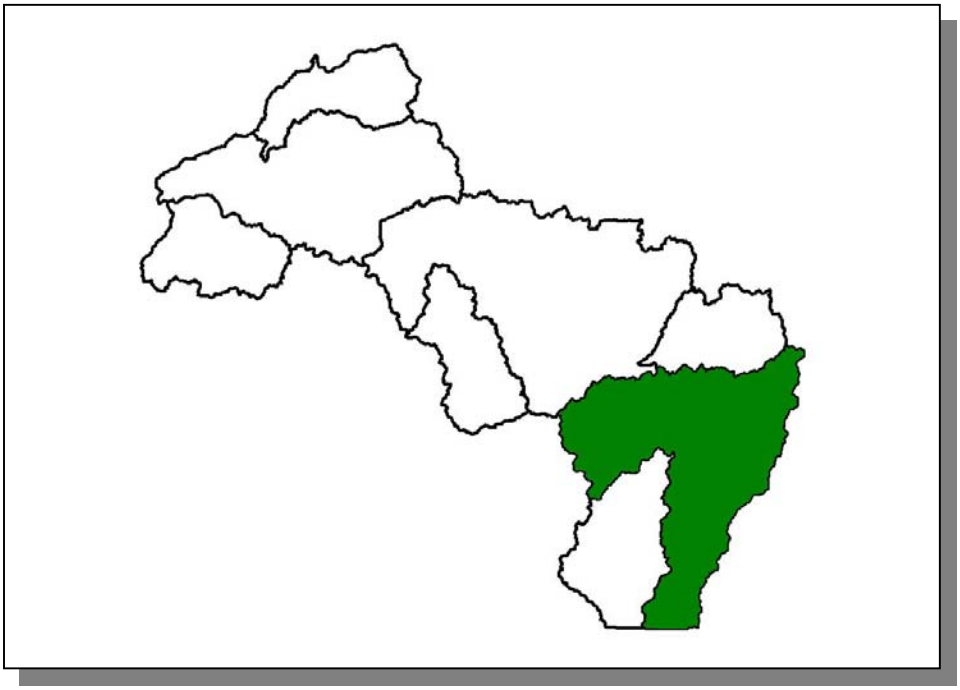

***Figure 4-2. Location of Subwatershed 0801020801.*** *All Hatchie River HUC-10 subwatershed boundaries in Tennessee are shown for reference.*

4.2.A.i. 080102080101 (Hatchie River).

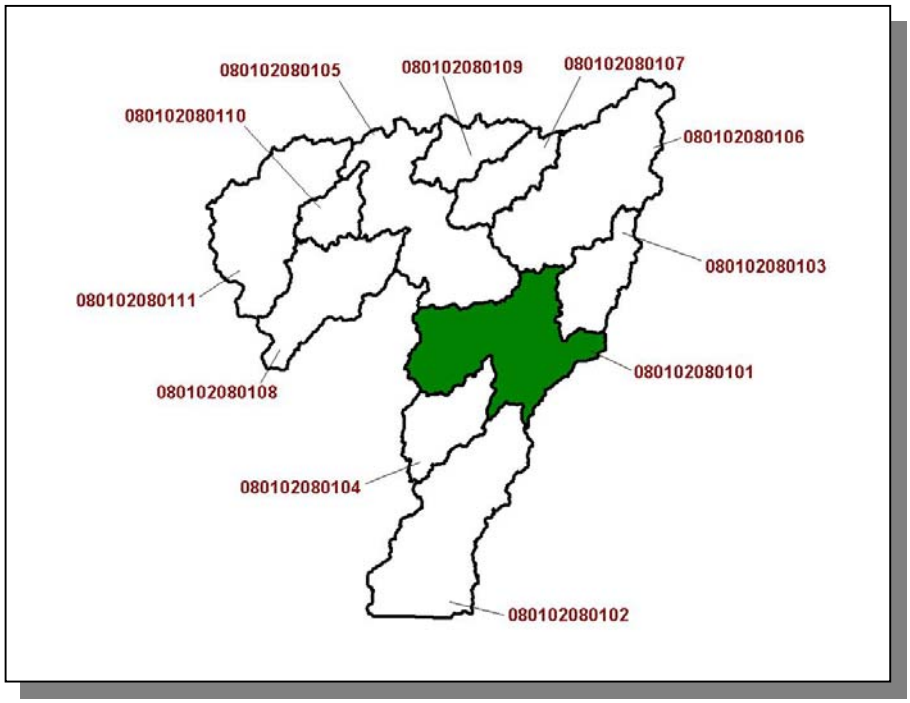


***Figure 4-3. Location of Subwatershed 080102080101.*** *All HUC-12 subwatershed boundaries are shown for reference.*

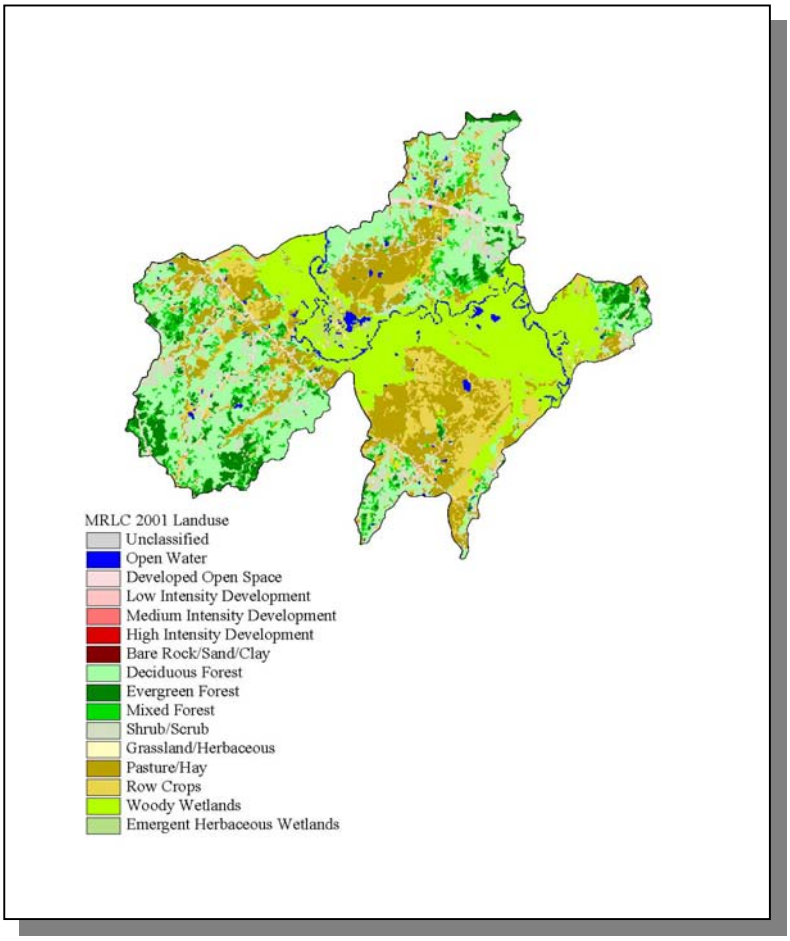


***Figure 4-4. Illustration of Land Use Distribution in Subwatershed 080102080101.***

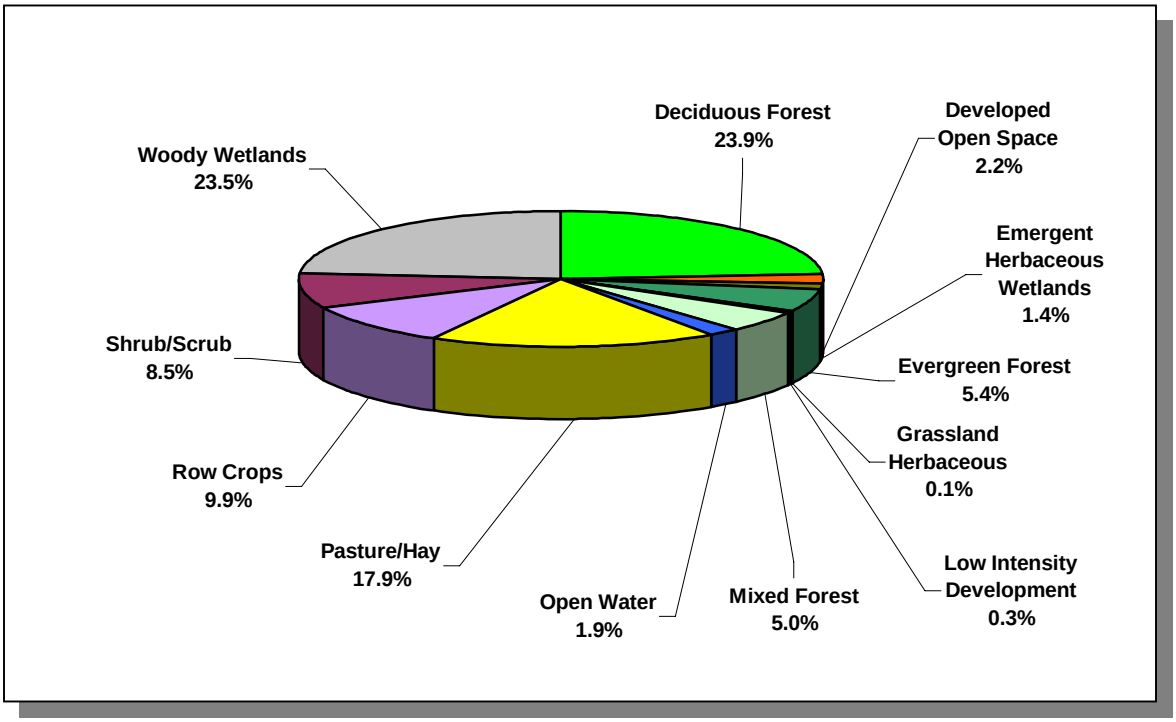


*Figure 4-5. Illustration of Land Use Distribution in Subwatershed 080102080101.*

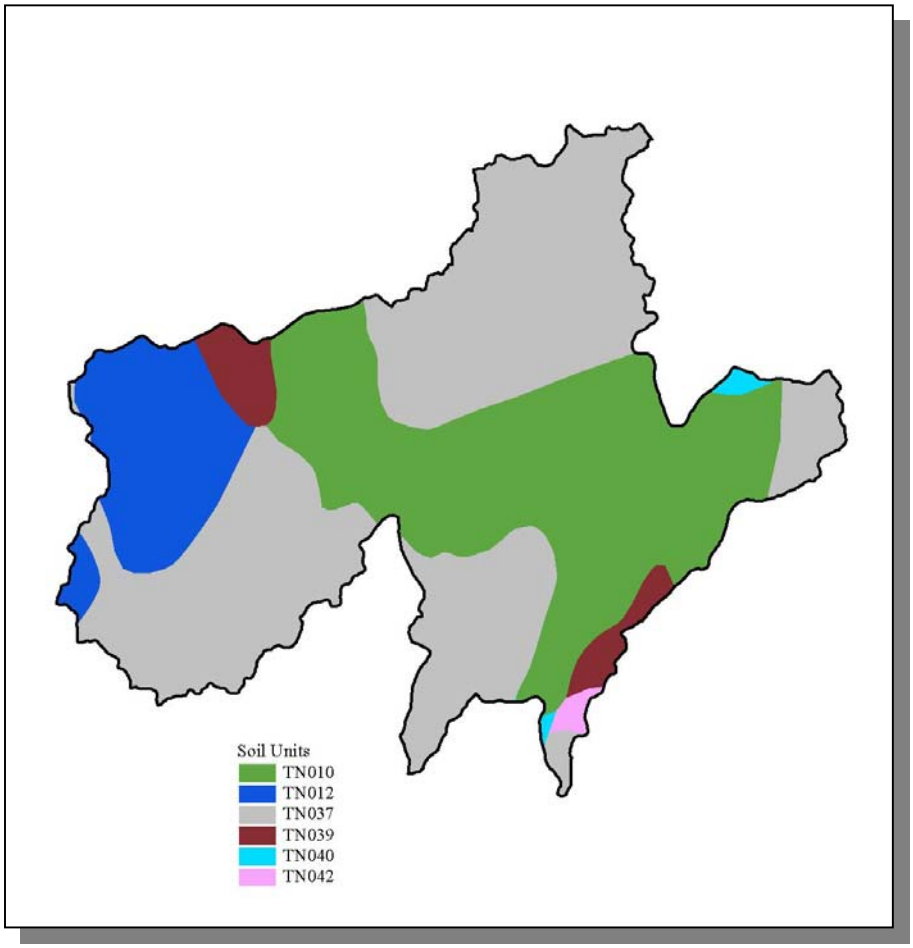


***Figure 4-6. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080101.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | SiltyLoam | 0.39 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |
| TN039 | 24.00 | C | 1.35 | 5.20 | SiltyLoam | 0.47 |
| TN040 | 40.00 | C | 1.35 | 5.18 | SiltyLoam | 0.38 |
| TN042 | 0.00 | C | 2.53 | 5.11 | SiltyLoam | 0.34 |

***Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080101.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 1.35 | 316 | 334 | 380 | 20.3 |

***Table 4-3. Population Estimates in Subwatershed 080102080101.***

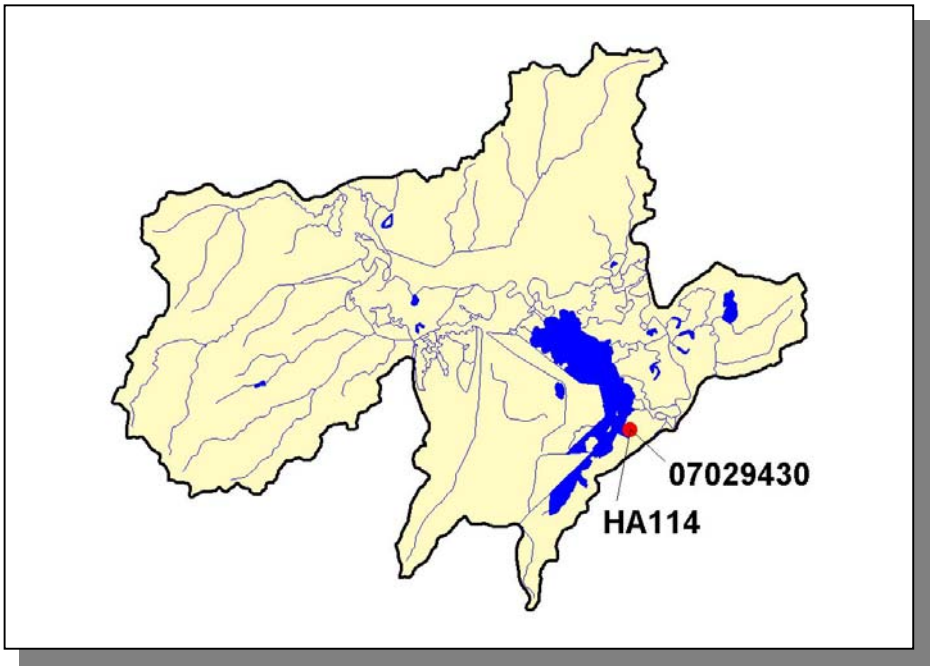


***Figure 4-7. Location of Historical Streamflow Data Collection Sites in Subwatershed 080102080101.*** *More information is provided in Appendix IV.*

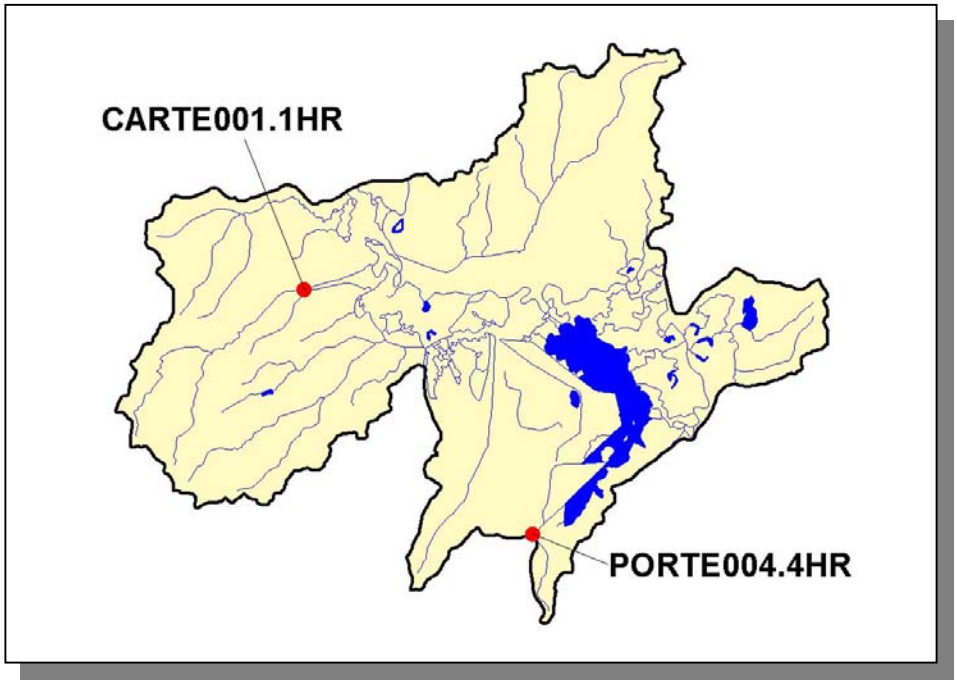


***Figure 4-8. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080101.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.i.a. Point Source Contributions.

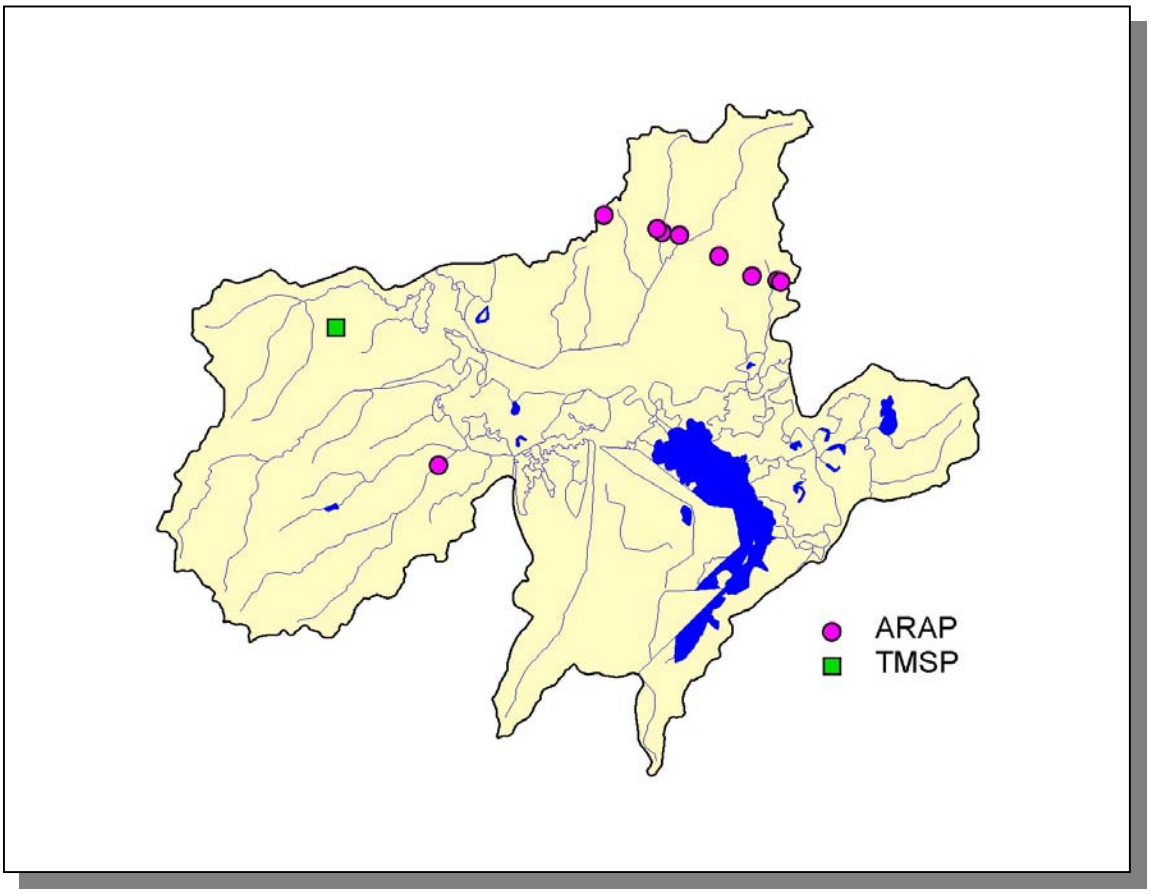


***Figure 4-9. Location of Permits Issued in Subwatershed 080102080101.*** *More information, including the names of facilities, is provided in Appendix IV.*

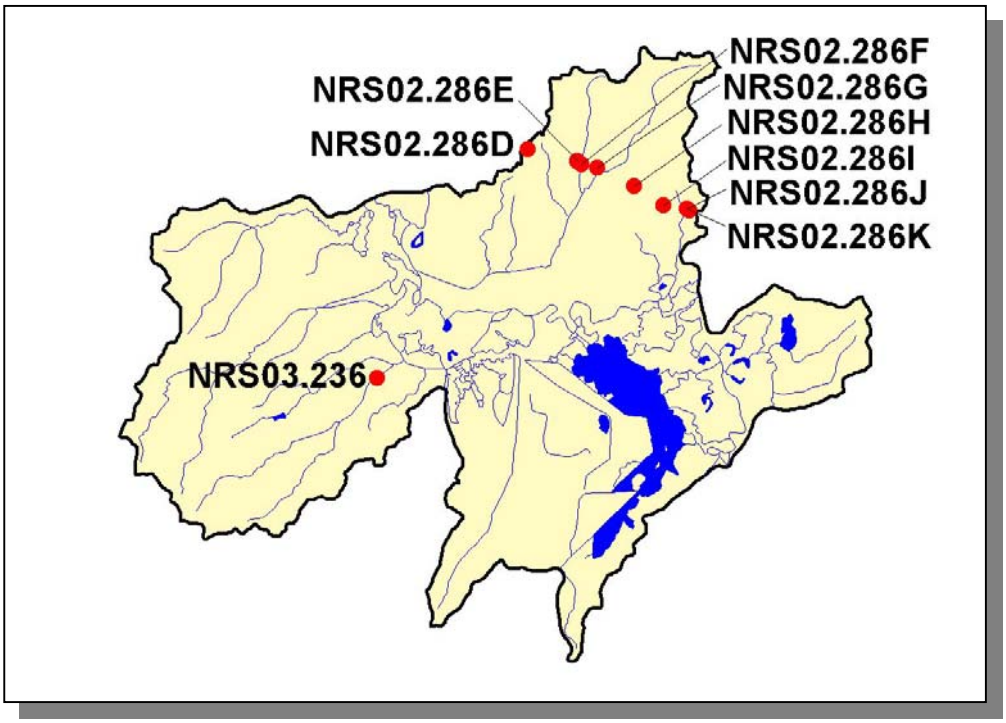


***Figure 4-10. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080101.*** *More information is provided in Appendix IV.*

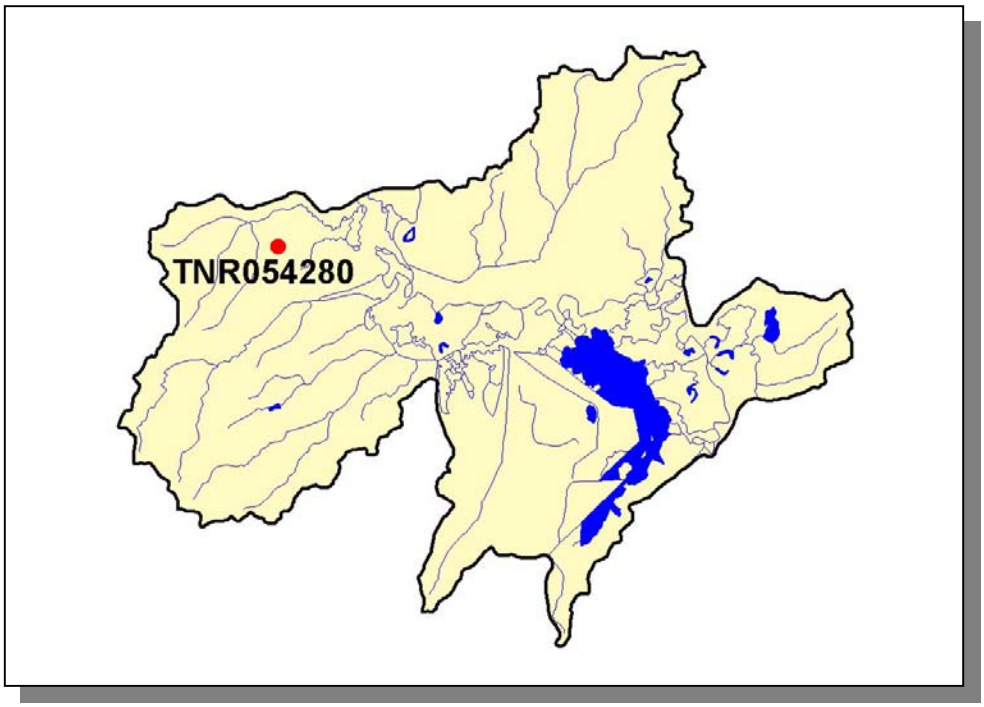


***Figure 4-11. Location of TMSP Sites in Subwatershed 080102080101.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.i.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 174 | 301 | <5 | <5 | 99 | <5 |

***Table 4-4. Summary of Livestock Count Estimates in Subwatershed 080102080101.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-5. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 16.6 |

***Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 080102080101.***

4.2.A.ii. 080102080102 (Porters Creek).

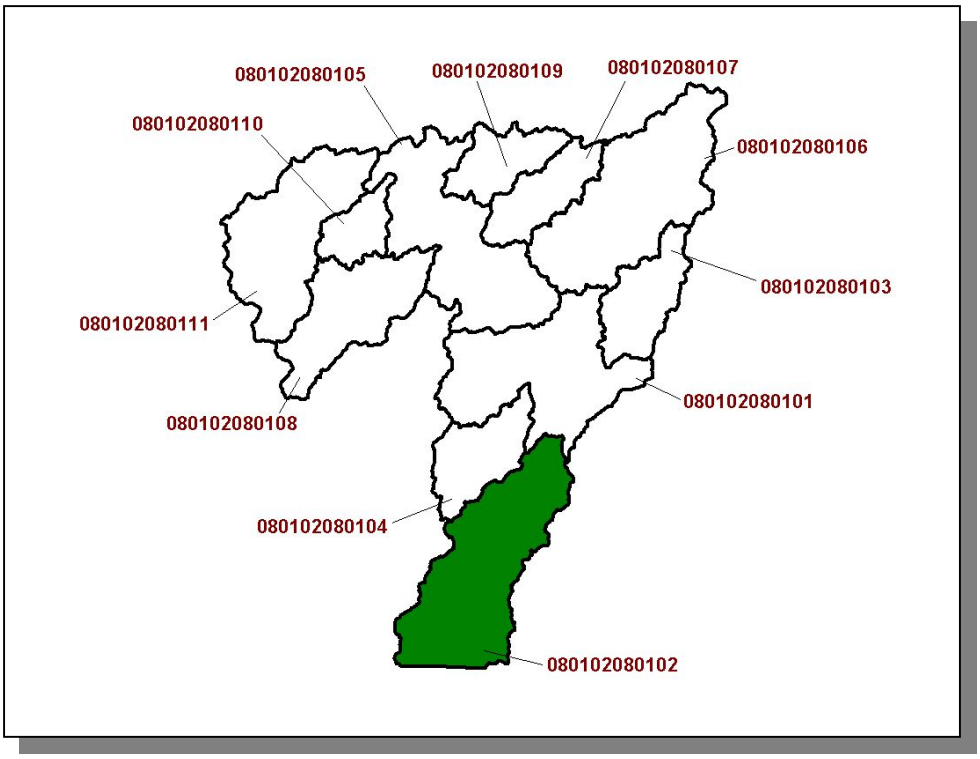


***Figure 4-12. Location of Subwatershed 080102080102.*** *All Tennessee Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

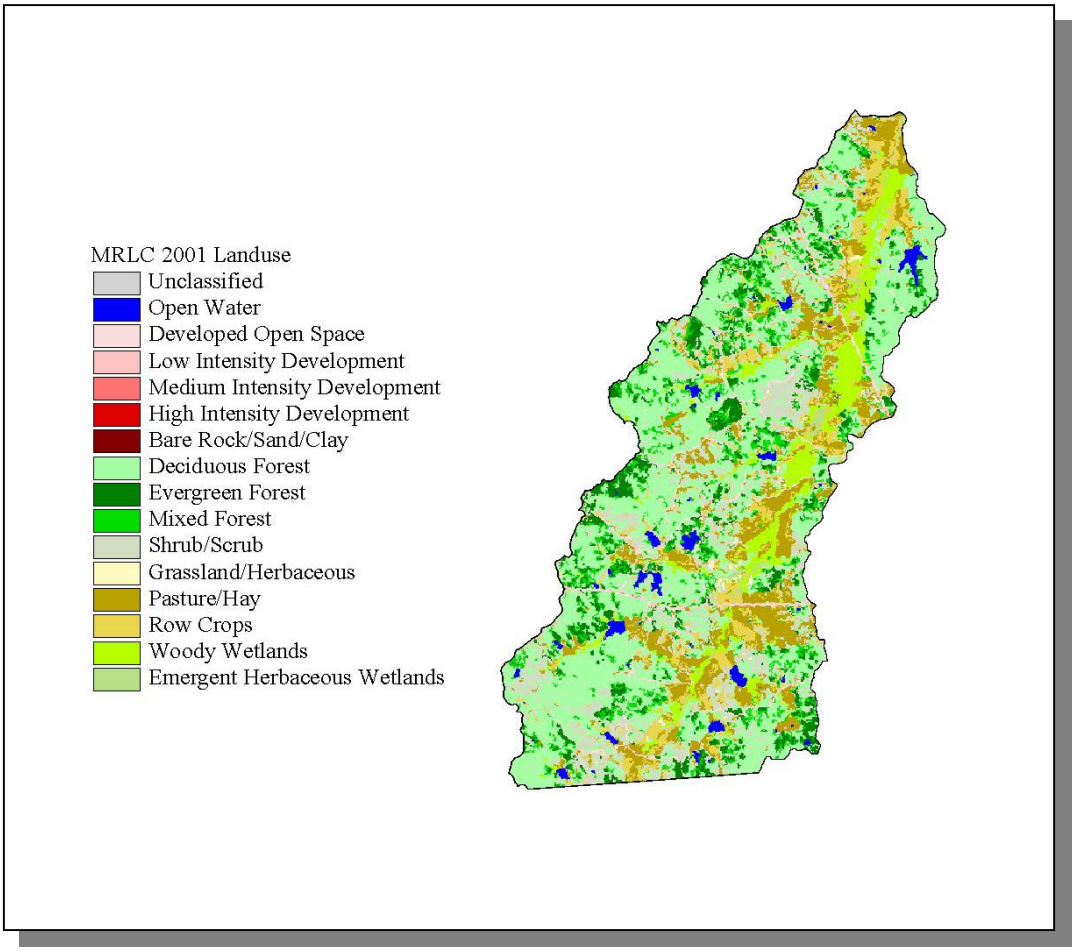


***Figure 4-13. Illustration of Land Use Distribution in Subwatershed 080102080102.***

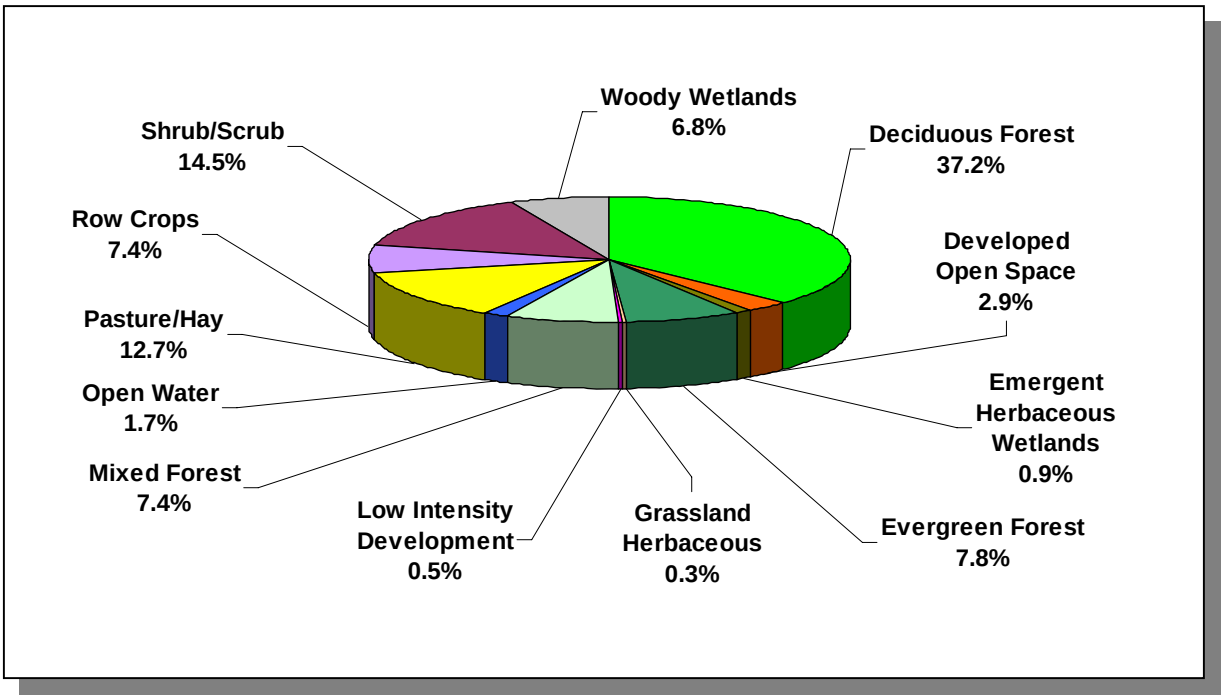


***Figure 4-14. Land Use Distribution in Subwatershed 080102080102.*** *More information is provided in Appendix IV.*

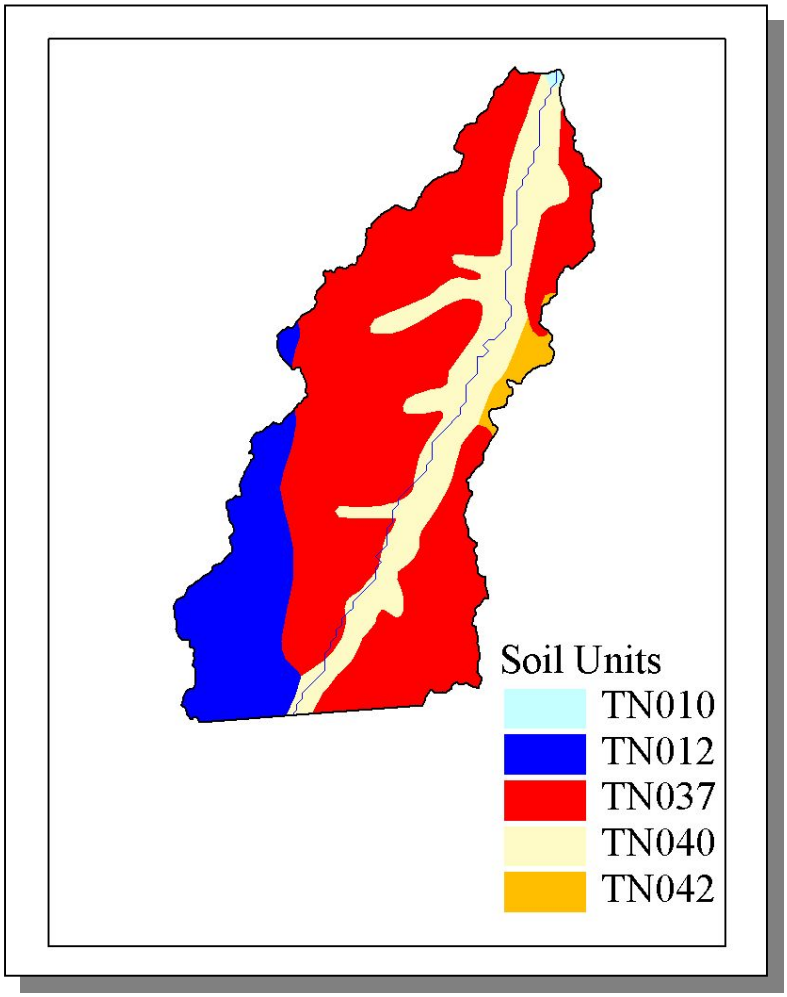


***Figure 4-15. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080102.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |
| TN040 | 40.00 | C | 1.33 | 5.18 | Silty Loam | 0.38 |
| TN042 | 0.00 | C | 2.53 | 5.11 | Silty Loam | 0.34 |

***Table 4-8. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080102.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 6.61 | 1,545 | 1,632 | 1,857 | 20.2 |

***Table 4-9. Population Estimates in Subwatershed 080102080102.***

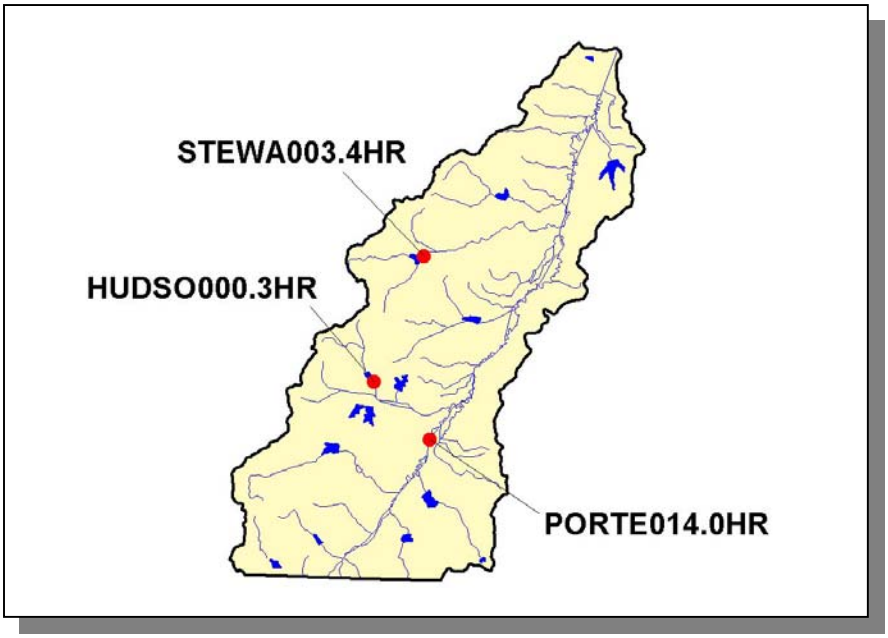


***Figure 4-16. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080102.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.ii.a. Point Source Contributions.

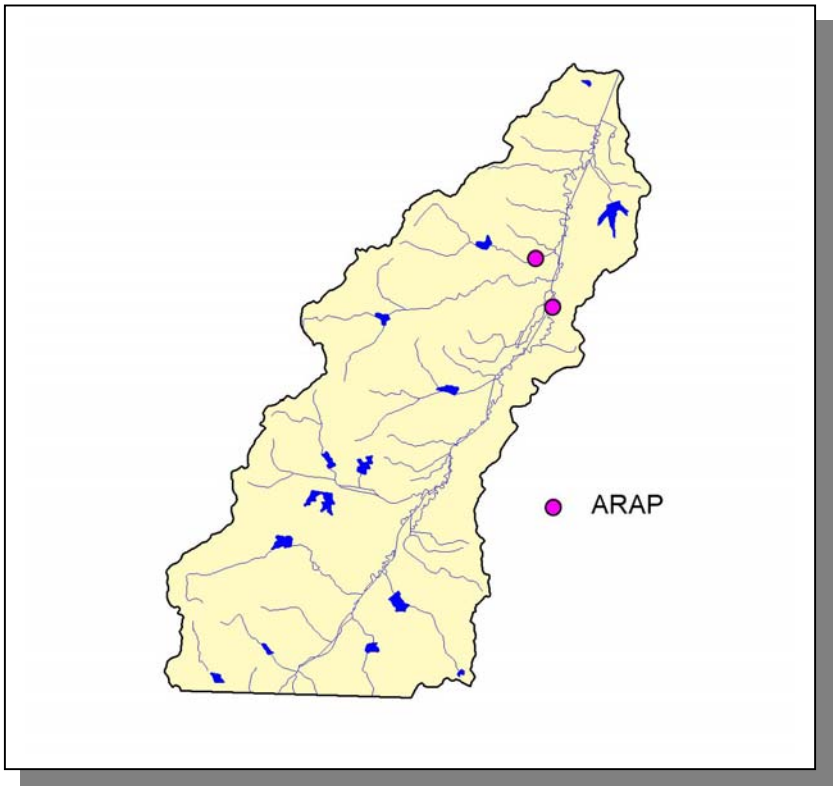


***Figure 4-17. Location of Permits Issued in Subwatershed 080102080102.*** *More information, including the names of facilities, is provided in Appendix IV.*

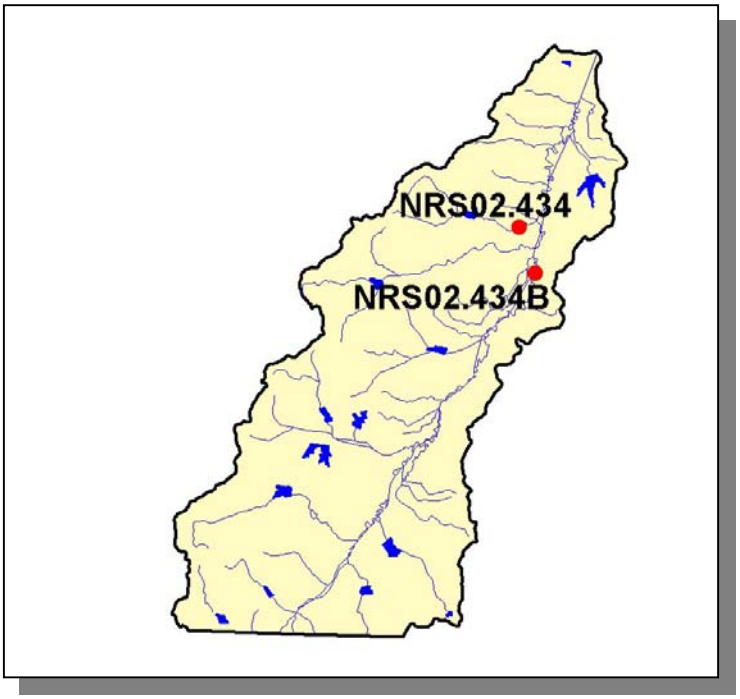


***Figure 4-18. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080102.*** *More information is provided in Appendix IV.*

4.2.A.ii.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 507 | 879 | 5 | <5 | 271 | 8 |

***Table 4-10. Summary of Livestock Count Estimates in Subwatershed 080102080102.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-11. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-12. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.44 |
| Legumes (Hayland) | 1.14 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.07 |
| Cotton (Row Crops) | 24.92 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.61 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.15 |
| Conservation Reserve Program Lands | 0.47 |
| Farmsteads and Ranch Headquarters | 0.95 |

***Table 4-13. Annual Estimated Total Soil Loss in Subwatershed 080102080102.***

4.2.A.iii. 080102080103 (Wade Creek).

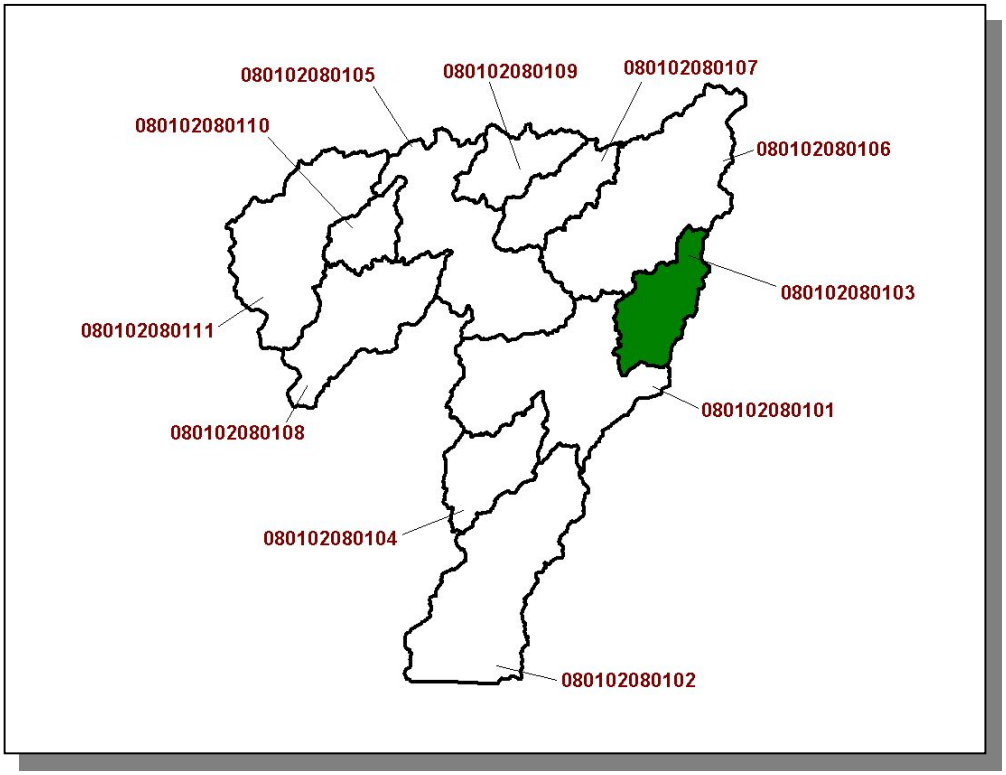


***Figure 4-19. Location of Subwatershed 080102080103.*** *All Tennessee Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

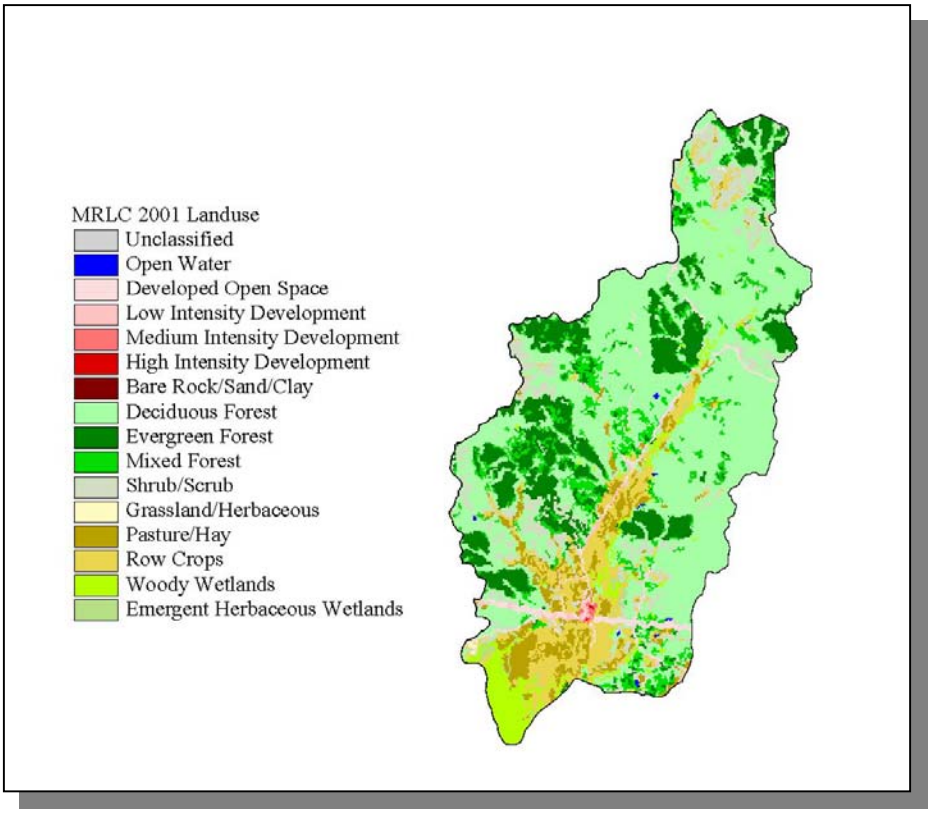


***Figure 4-20. Illustration of Land Use Distribution in Subwatershed 080102080103.***

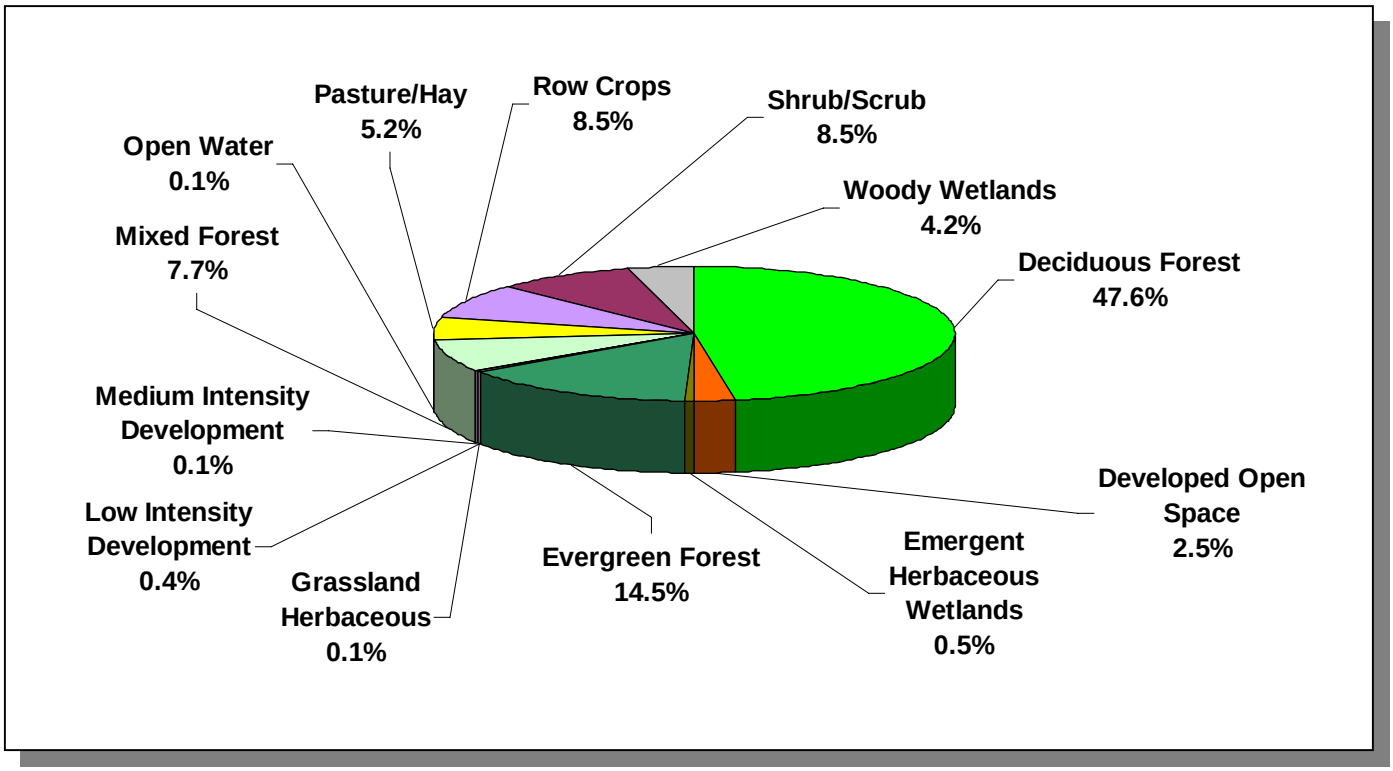


***Figure 4-21. Land Use Distribution in Subwatershed 080102080103.*** *More information is provided in Appendix IV.*

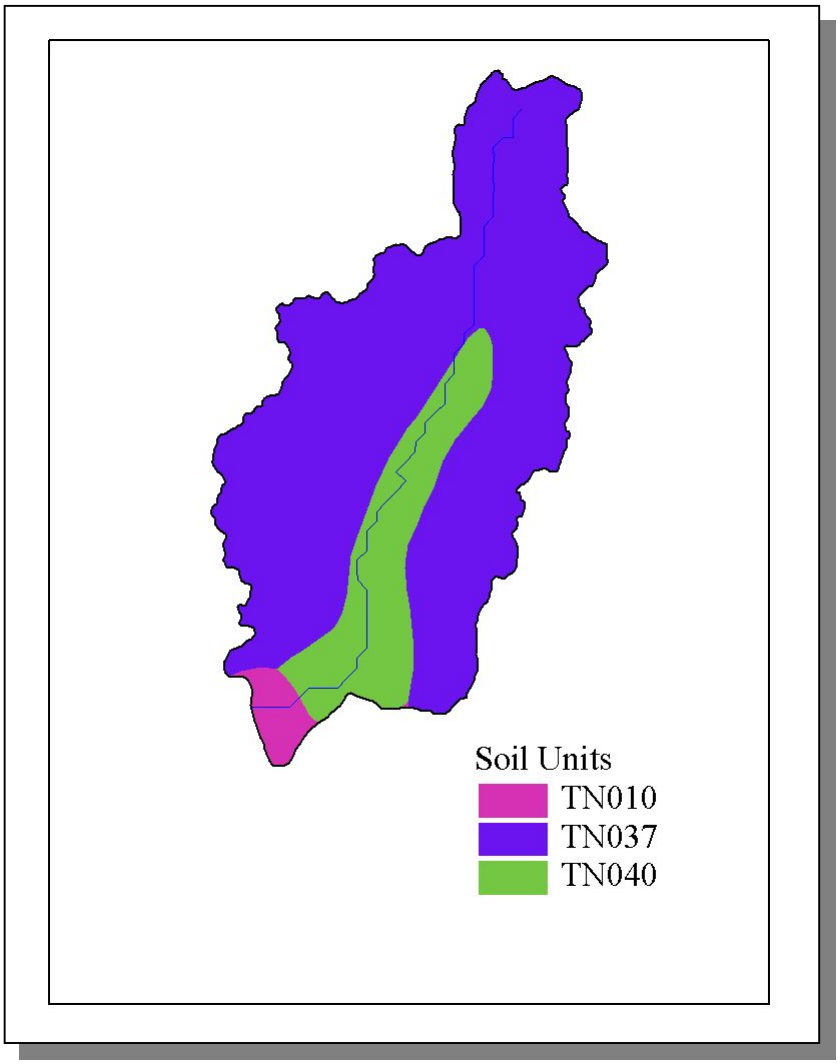


***Figure 4-22. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080103.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |
| TN040 | 40.00 | C | 1.33 | 5.18 | Silty Loam | 0.38 |

***Table 4-14. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080103.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Chester | 12,819 | 14,469 | 15,540 | 0.31 | 40 | 46 | 49 | 22.5 |
| Hardeman | 23,377 | 24,702 | 28,105 | 2.32 | 543 | 574 | 653 | 20.3 |
| **Total** | **36,196** | **39,171** | **43,645** | | **583** | **620** | **702** | **20.4** |

***Table 4-15. Population Estimates in Subwatershed 080102080103.***

| | | | NUMBER OF HOUSING UNITS | | | |
|---|---|---|---|---|---|---|
| Populated Place | County | Population | Total | Public Sewer | Septic Tank | Other |
| | | | | | | |
| Hornsby | Hardeman | 293 | 128 | 8 | 115 | 5 |

***Table 4-16. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080103.***

***Figure 4-23. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080103.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.iii.a. Point Source Contributions.

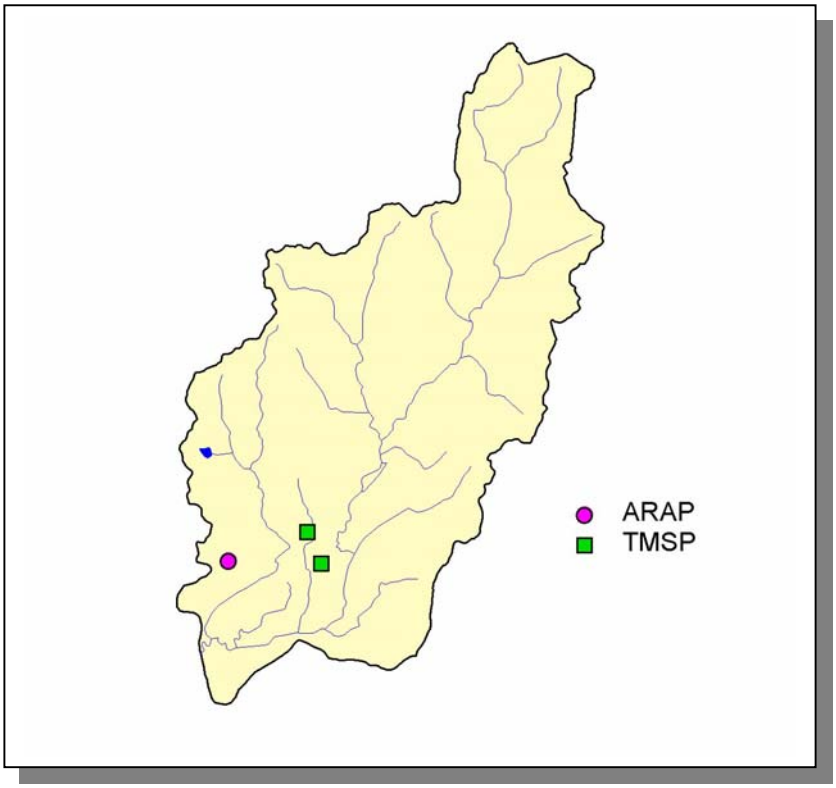


***Figure 4-24. Location of Permits Issued in Subwatershed 080102080103.*** *More information, including the names of facilities, is provided in Appendix IV.*

***Figure 4-25. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080103.*** *More information is provided in Appendix IV.*

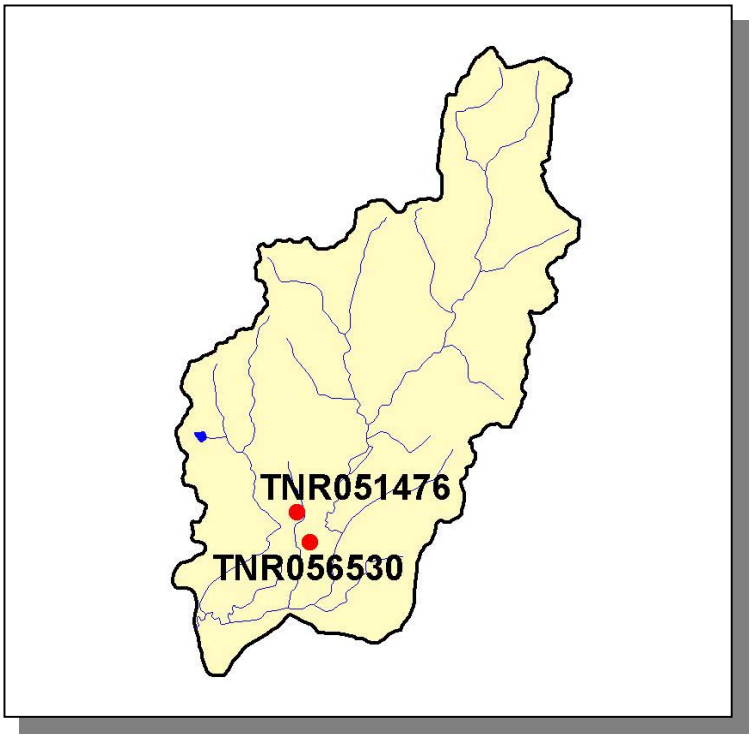


***Figure 4-26. Location of TMSP Sites in Subwatershed 080102080103.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.iii.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | |
|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Hogs | Sheep |
| | | | | |
| 82 | 144 | <5 | 47 | <5 |

***Table 4-17. Summary of Livestock Count Estimates in Subwatershed 080102080103.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Chester | 0 | 9,108 | 0 | 14 | 1,331 | 0 |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-18. Summary of Livestock Count Estimates in Chester and Hardeman Counties.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Chester | 99.4 | 99.4 | 0.3 | 1.3 |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-19. Forest Acreage and Annual Removal Rates (1987-1994) in Chester and Hardeman Counties.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.18 |
| Grass (Hayland) | 0.38 |
| Legumes, Grass (Hayland) | 0.21 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.03 |
| Corn (Row Crops) | 11.33 |
| Cotton (Row Crops) | 25.45 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.51 |
| Wheat (Close-Grown Cropland) | 14.79 |
| Other Vegetable and Truck Crops | 28.15 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.01 |
| Conservation Reserve Program Lands | 0.28 |
| Farmsteads and Ranch Headquarters | 0.92 |

***Table 4-20. Annual Estimated Total Soil Loss in Subwatershed 080102080103.***

4.2.A.iv. 080102080104 (Cub Creek).

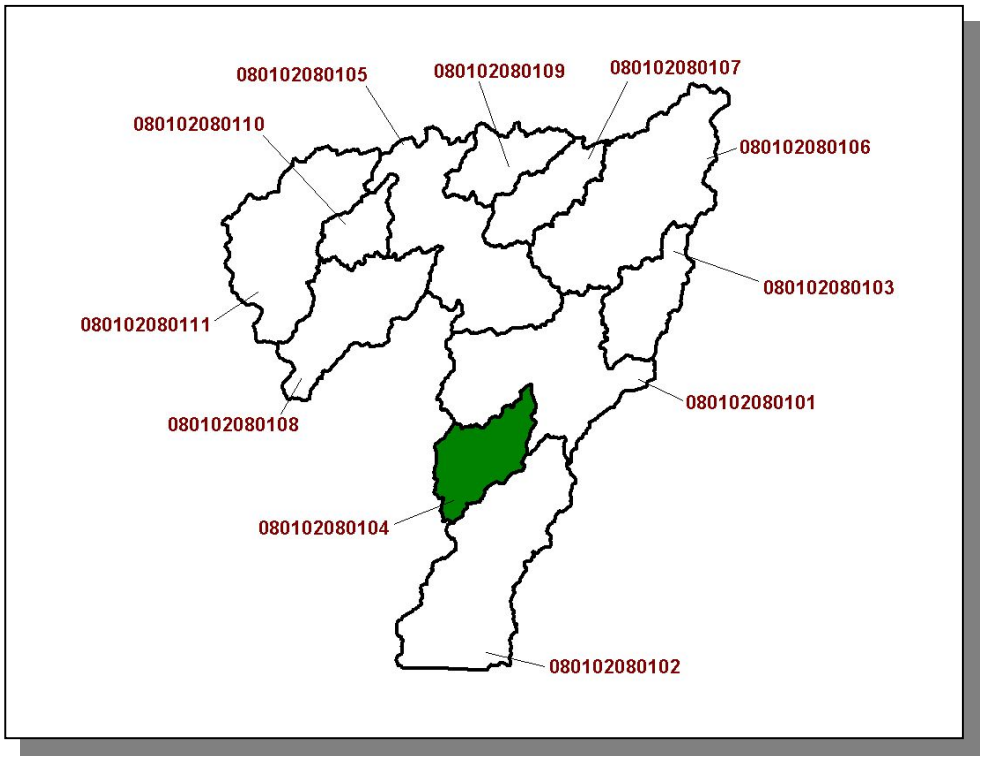


***Figure 4-27. Location of Subwatershed 080102080104.*** *All Tennessee Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

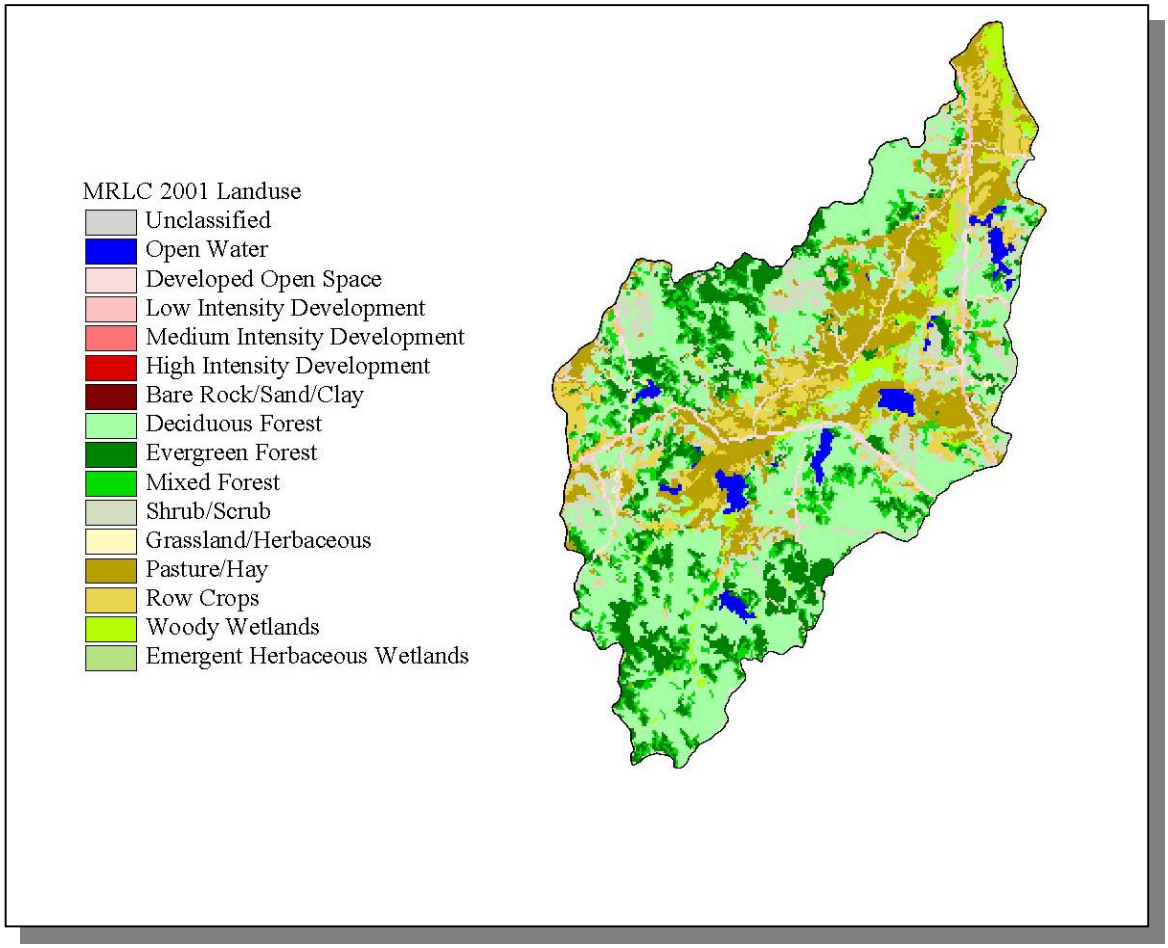


***Figure 4-28. Illustration of Land Use Distribution in Subwatershed 080102080104.***

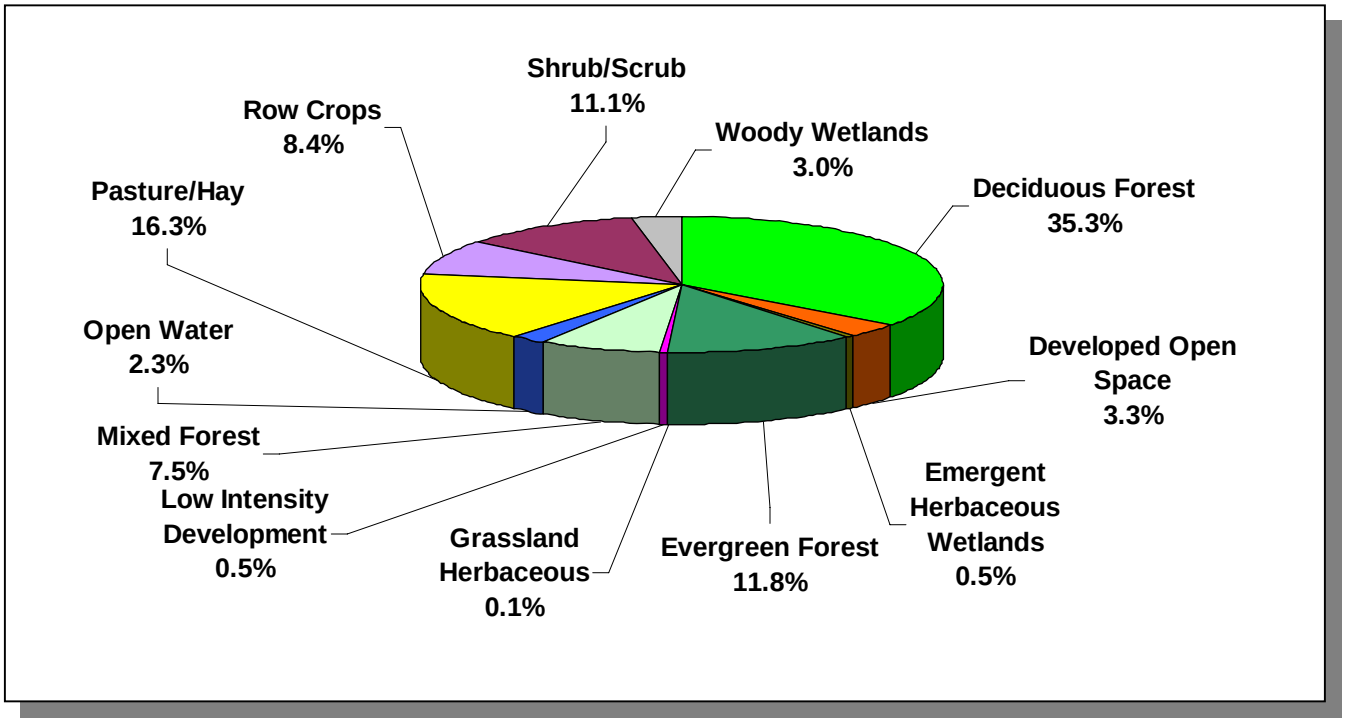


***Figure 4-29. Land Use Distribution in Subwatershed 080102080104.*** *More information is provided in Appendix IV.*

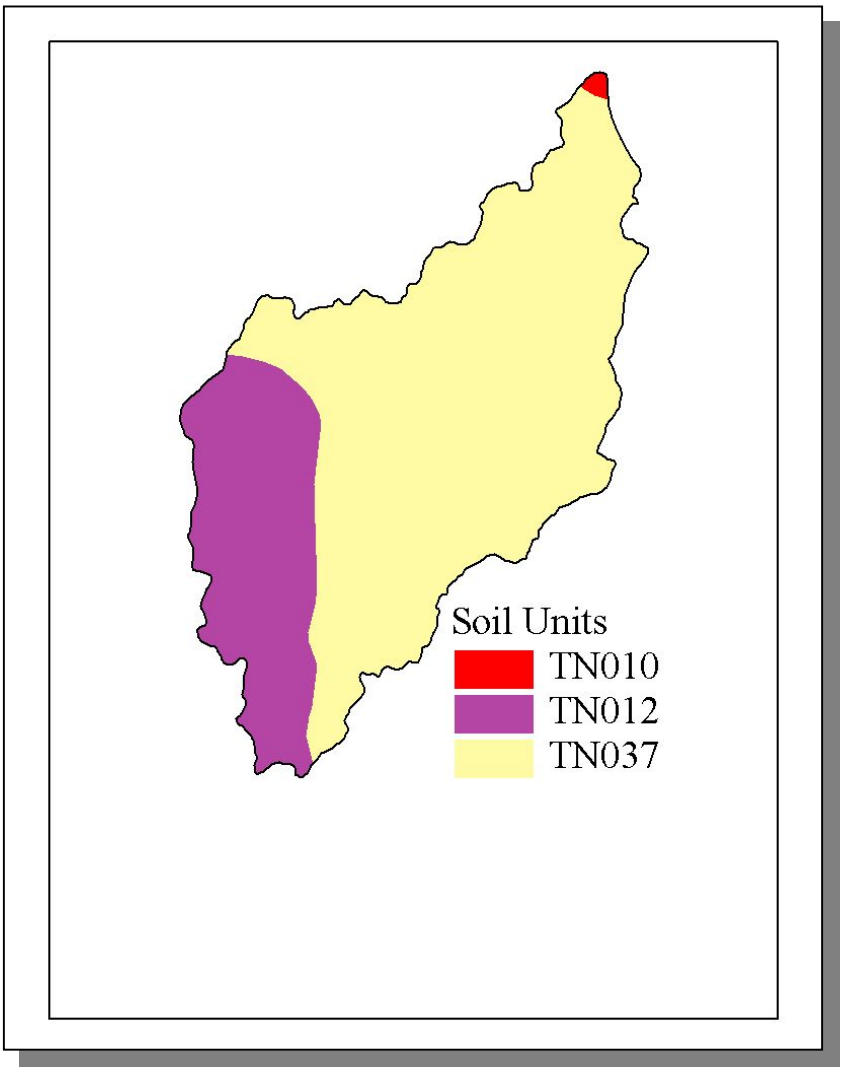


***Figure 4-30. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080104.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |

***Table 4-21. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080104.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 2.43 | 569 | 601 | 684 | 20.2 |

***Table 4-22. Population Estimates in Subwatershed 080102080104.***

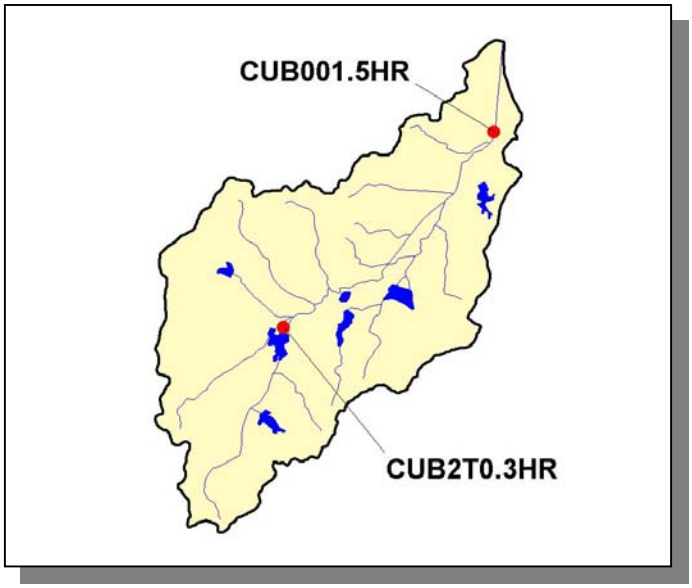


***Figure 4-31. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080104.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.iv.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.iv.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 197 | 340 | <5 | <5 | 112 | <5 |

***Table 4-23. Summary of Livestock Count Estimates in Subwatershed 080102080104.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-24. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-25. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-26. Annual Estimated Total Soil Loss in Subwatershed 080102080104.***

4.2.A.v. 080102080105 (Hatchie River).

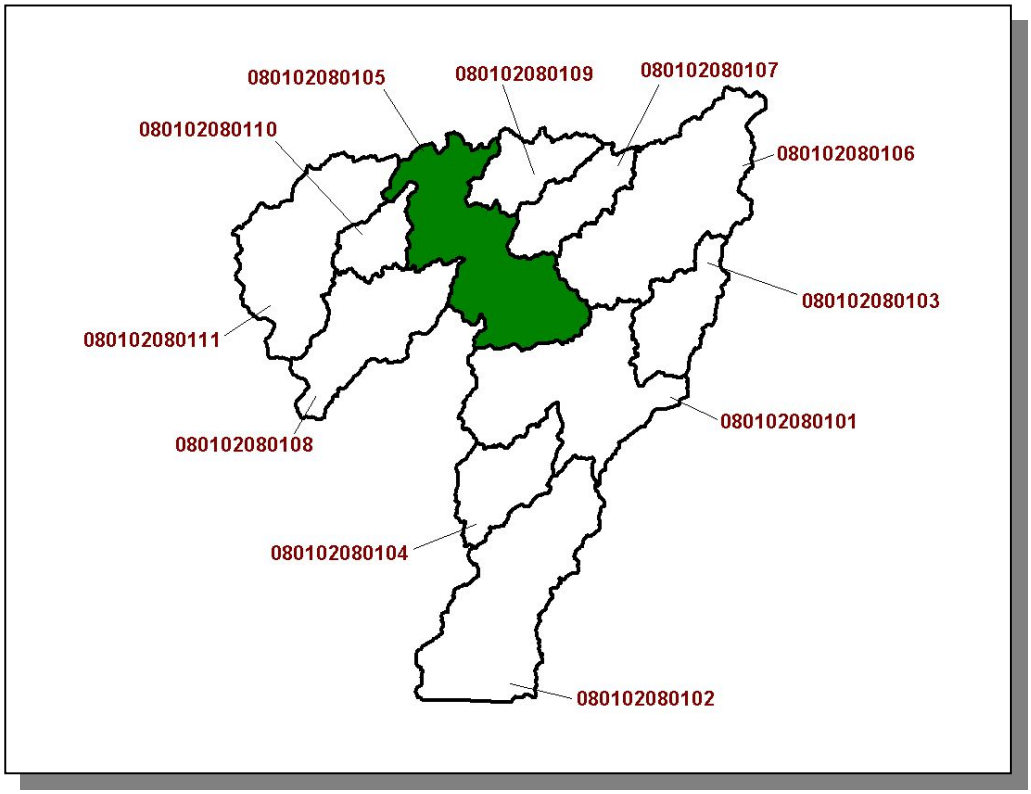


***Figure 4-32. Location of Subwatershed 080102080105.*** *All Tennessee Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

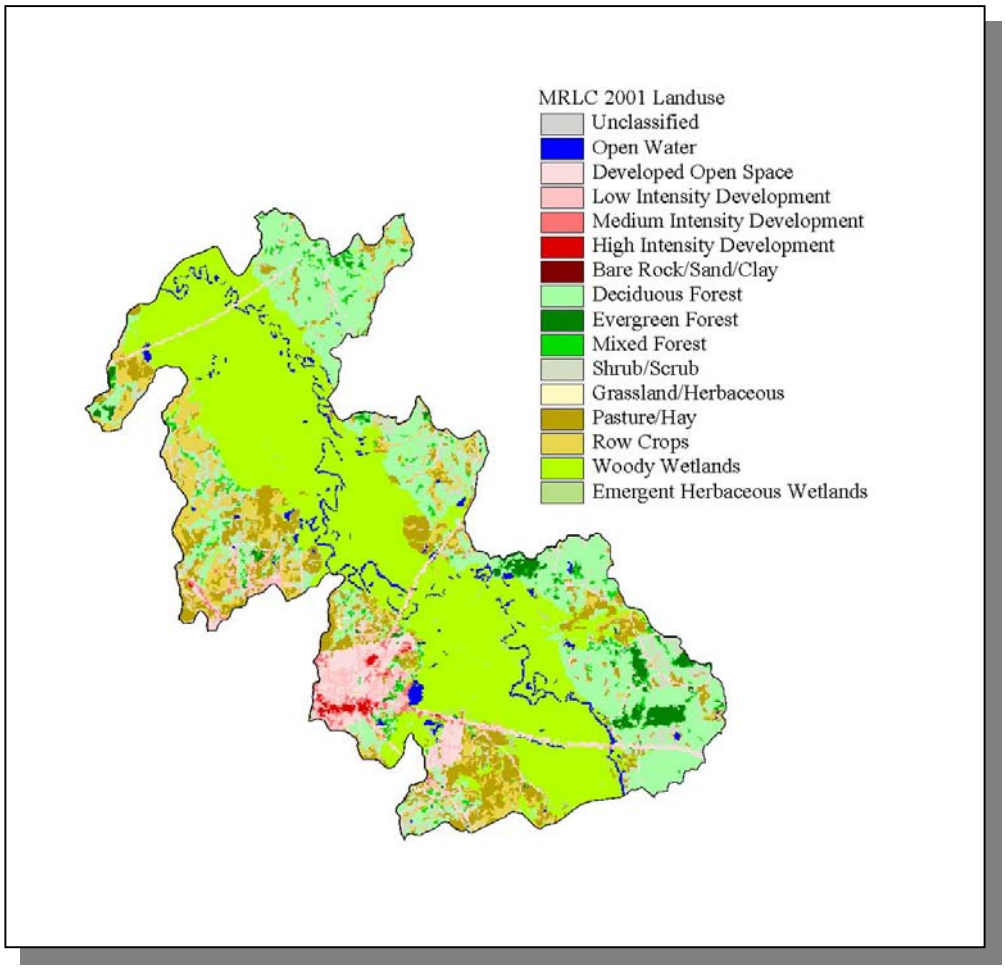


***Figure 4-33. Illustration of Land Use Distribution in Subwatershed 080102080105.***

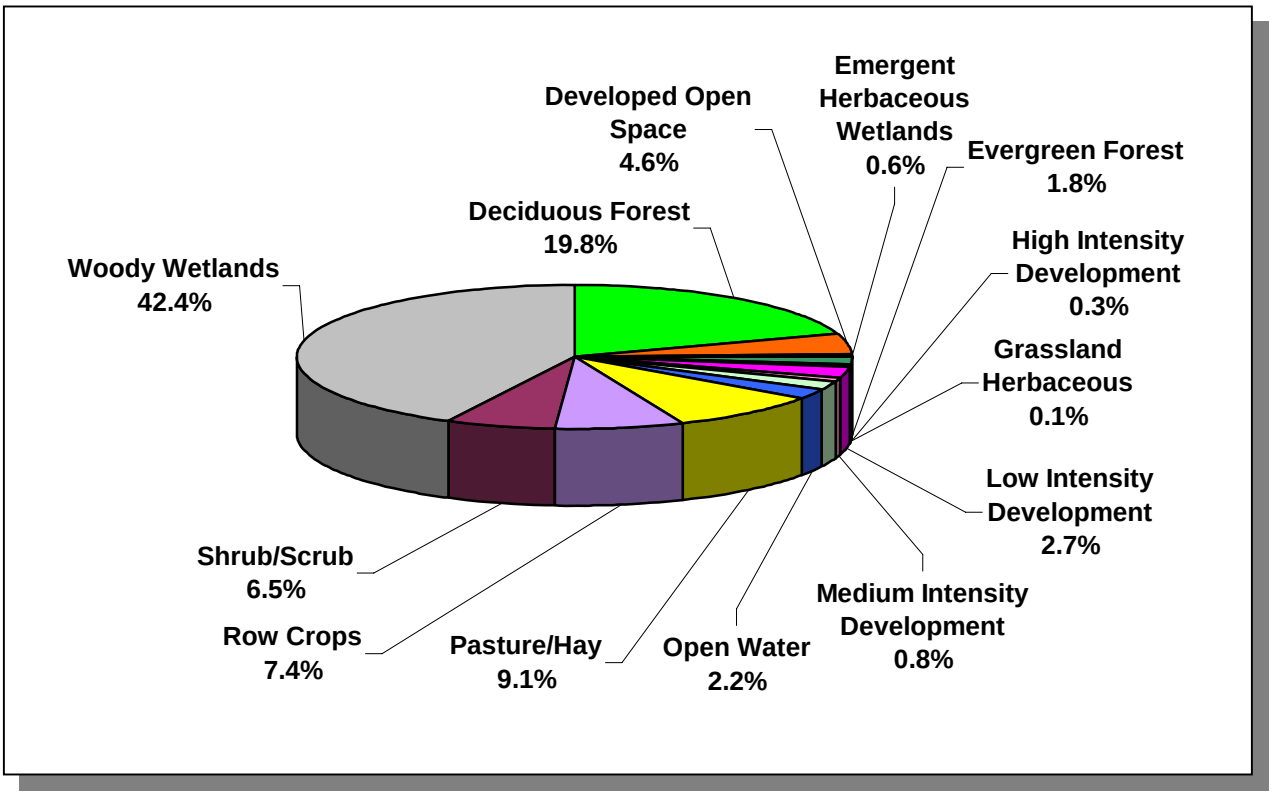


***Figure 4-34. Land Use Distribution in Subwatershed 080102080105.*** *More information is provided in Appendix IV.*

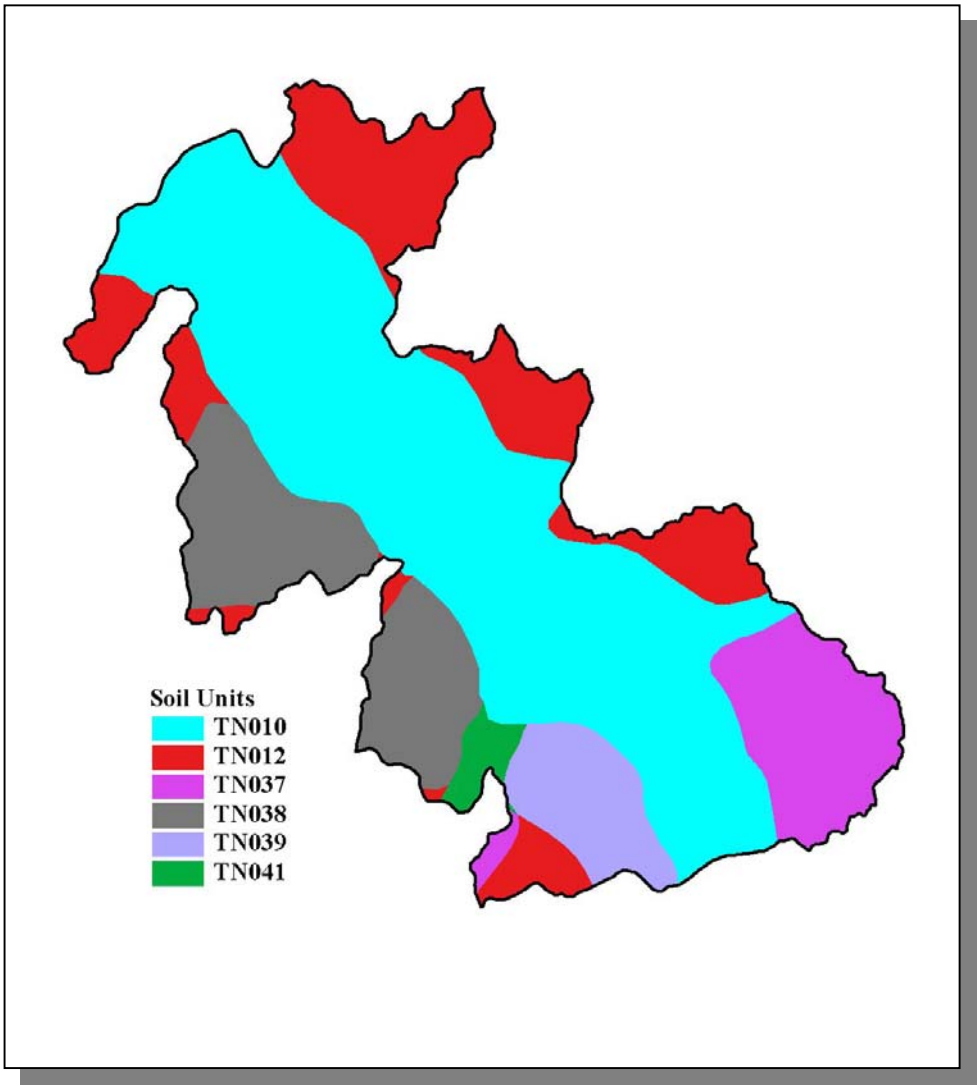


***Figure 4-35. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080105.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |
| TN038 | 9.00 | C | 1.65 | 5.20 | Silty Loam | 0.46 |
| TN039 | 24.00 | C | 1.35 | 5.20 | Silty Loam | 0.47 |
| TN041 | 59.00 | C | 1.35 | 4.98 | Silty Loam | 0.34 |

***Table 4-27. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080105.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 6.32 | 1,477 | 1,561 | 1,776 | 20.2 |

***Table 4-28. Population Estimates in Subwatershed 080102080105.***

| | | | NUMBER OF HOUSING UNITS | | | |
|---|---|---|---|---|---|---|
| Populated Place | County | Population | Total | Public Sewer | Septic Tank | Other |
| | | | | | | |
| Bolivar | Hardeman | 5,969 | 2,098 | 1,915 | 161 | 22 |
| Toone | Hardeman | 279 | 102 | 69 | 33 | 0 |
| **Total** | | **6,248** | **2,200** | **1,984** | **194** | **22** |

***Table 4-29. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080105.***

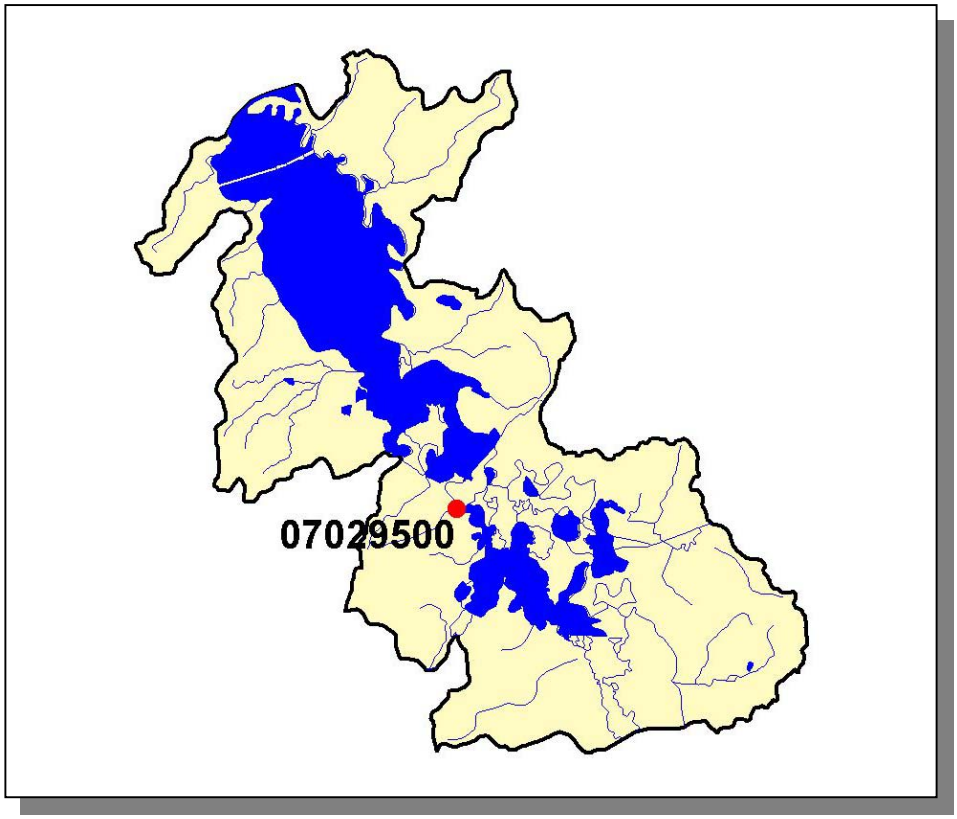


***Figure 4-36. Location of Historical Streamflow Data Collection Sites in Subwatershed 080102080105.*** *More information is provided in Appendix IV.*

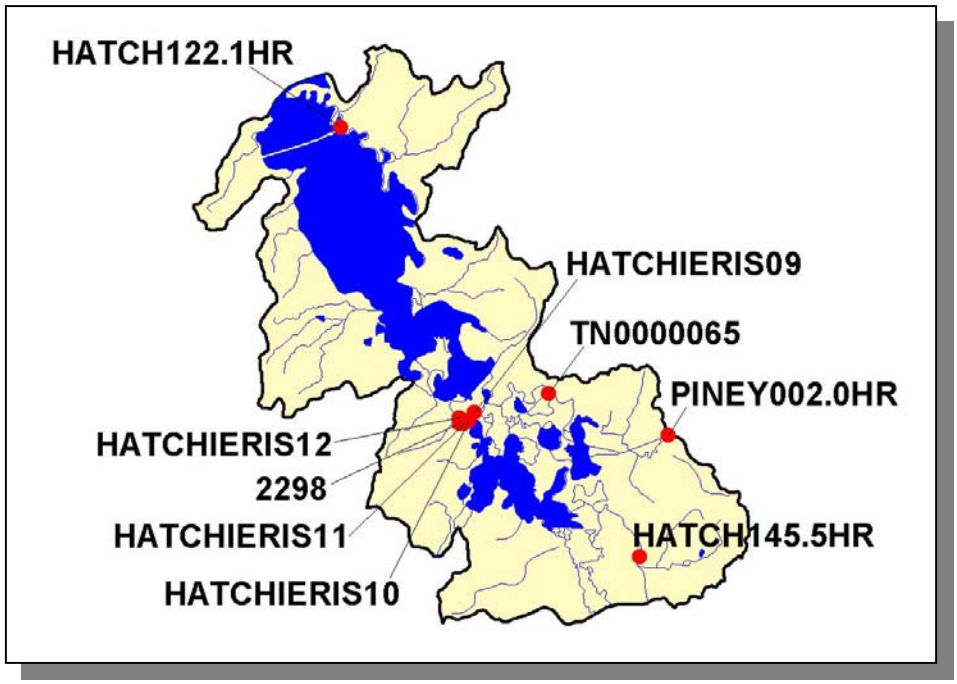


***Figure 4-37. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080105.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.v.a. Point Source Contributions.

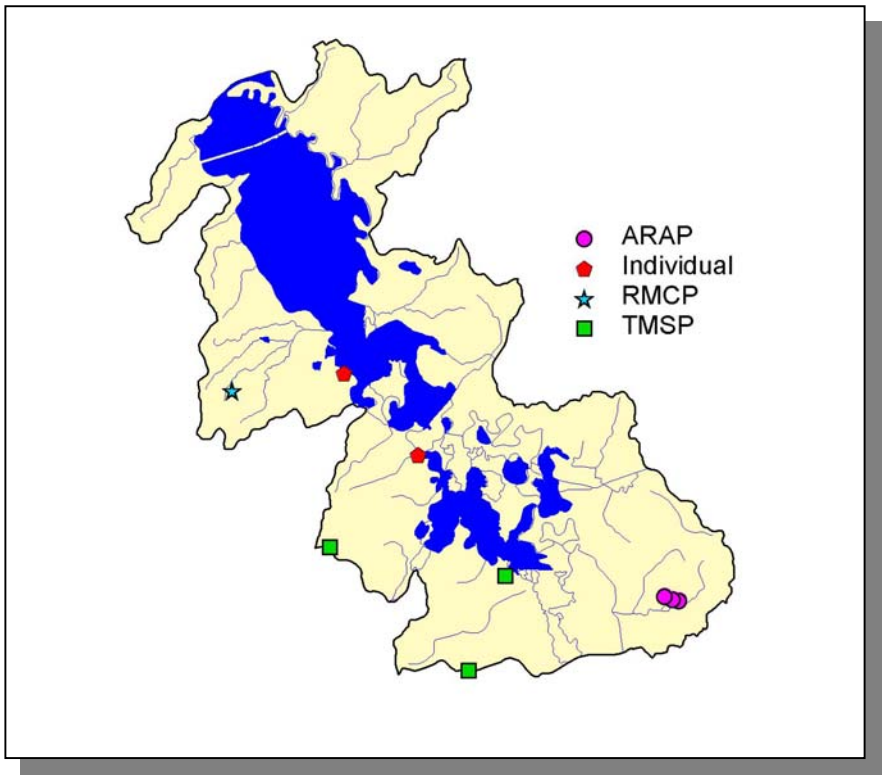


***Figure 4-38. Location of Permits Issued in Subwatershed 080102080105.*** *More information, including the names of facilities, is provided in Appendix IV.*

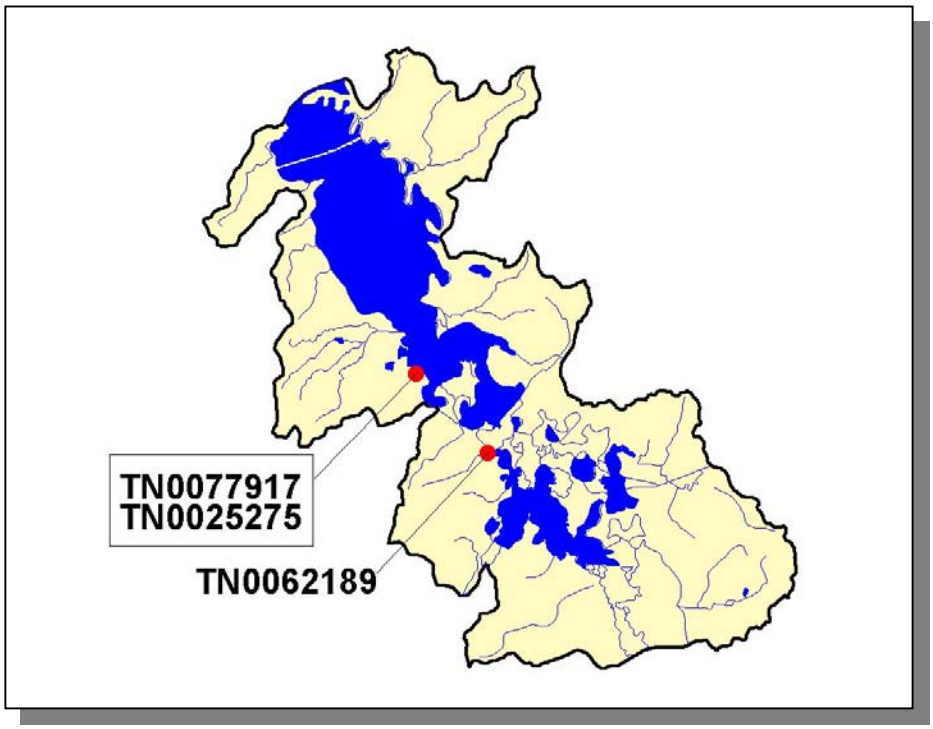


***Figure 4-39. Location of Active NPDES Sites in Subwatershed 080102080105.*** *More information, including the names of facilities, is provided in Appendix IV.*

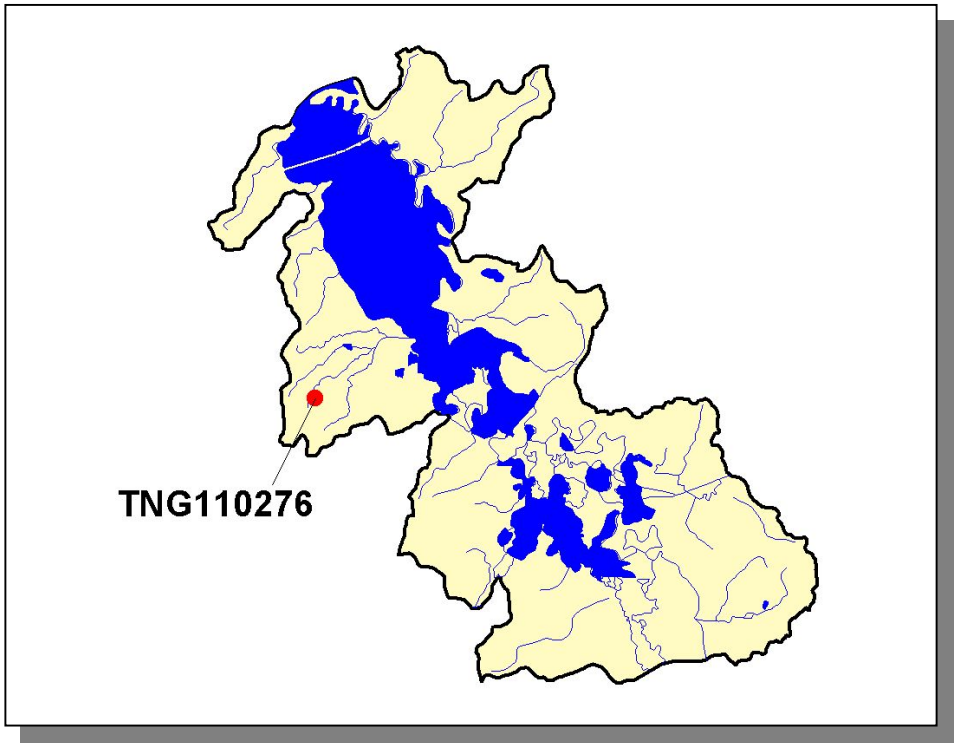


***Figure 4-40. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 080102080105.*** *More information is provided in Appendix IV.*

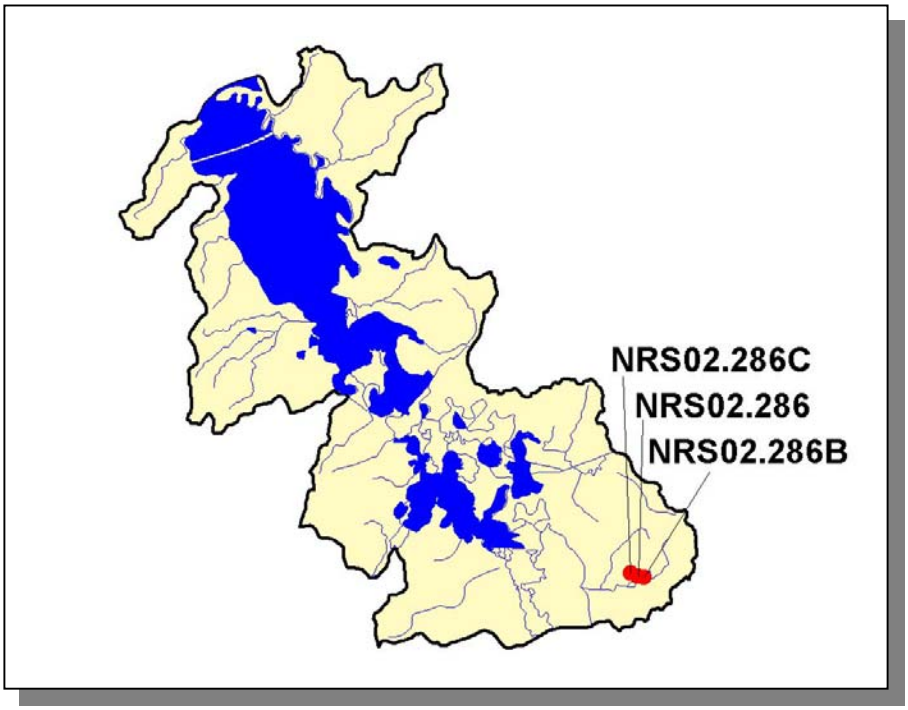


***Figure 4-41. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080105.*** *More information is provided in Appendix IV.*

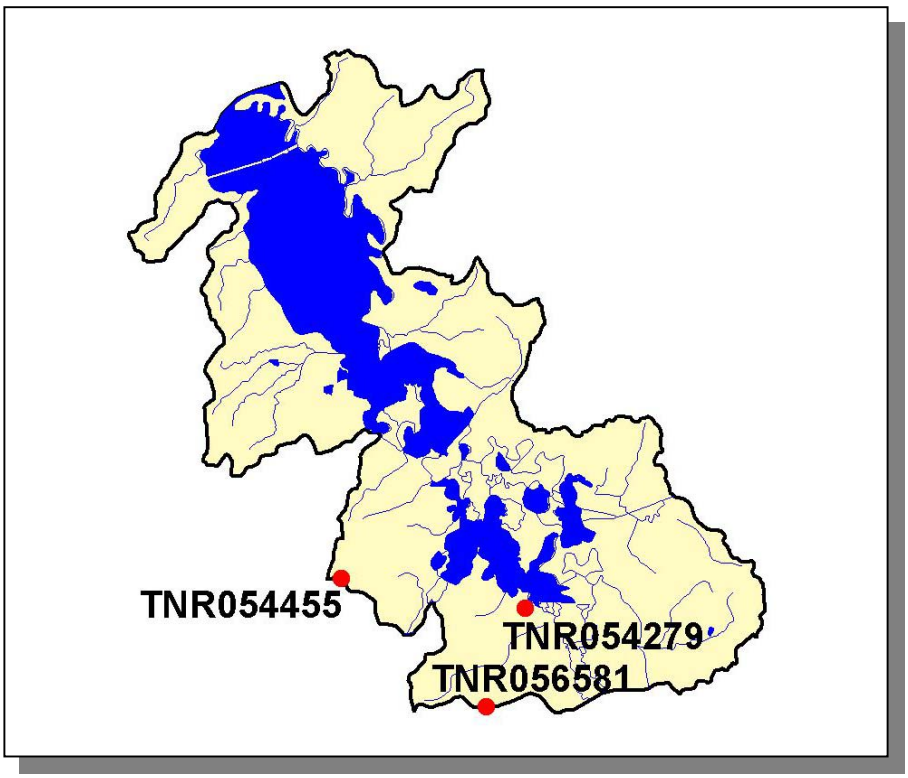


***Figure 4-42. Location of TMSP Sites in Subwatershed 080102080105.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.v.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 413 | 713 | <5 | <5 | 235 | 6 |

***Table 4-30. Summary of Livestock Count Estimates in Subwatershed 080102080105.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-31. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-32. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-33. Annual Estimated Total Soil Loss in Subwatershed 080102080105.***

4.2.A.vi. 080102080106 (Piney Creek).

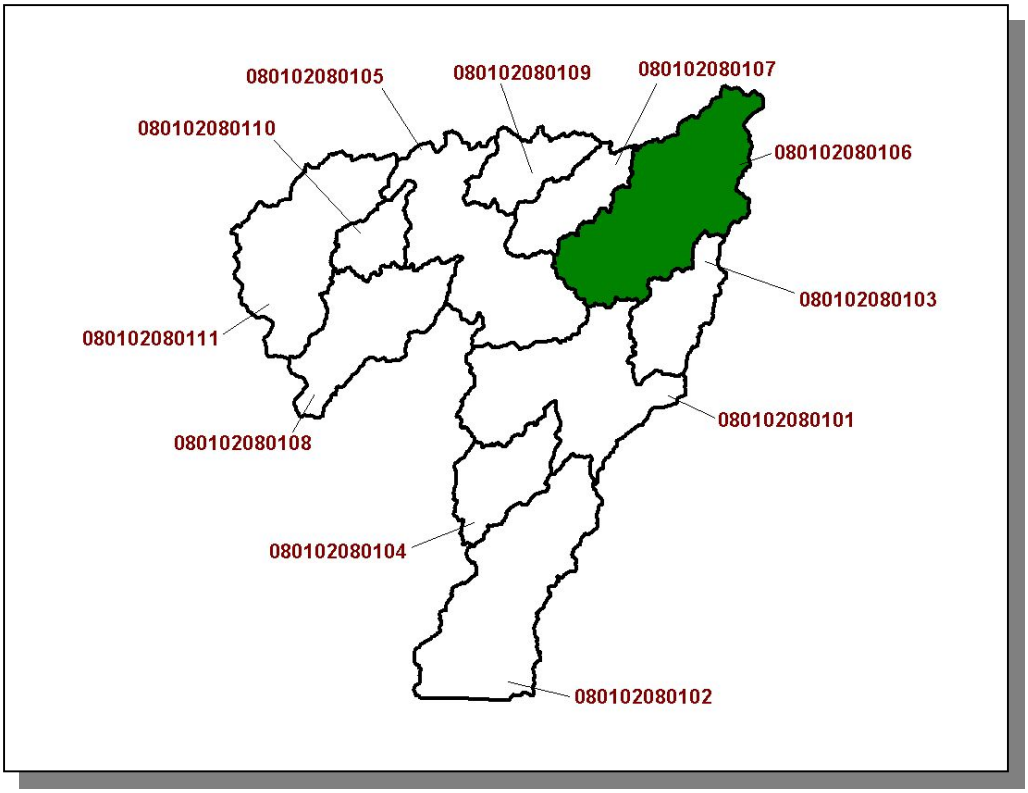


***Figure 4-43. Location of Subwatershed 080102080106.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

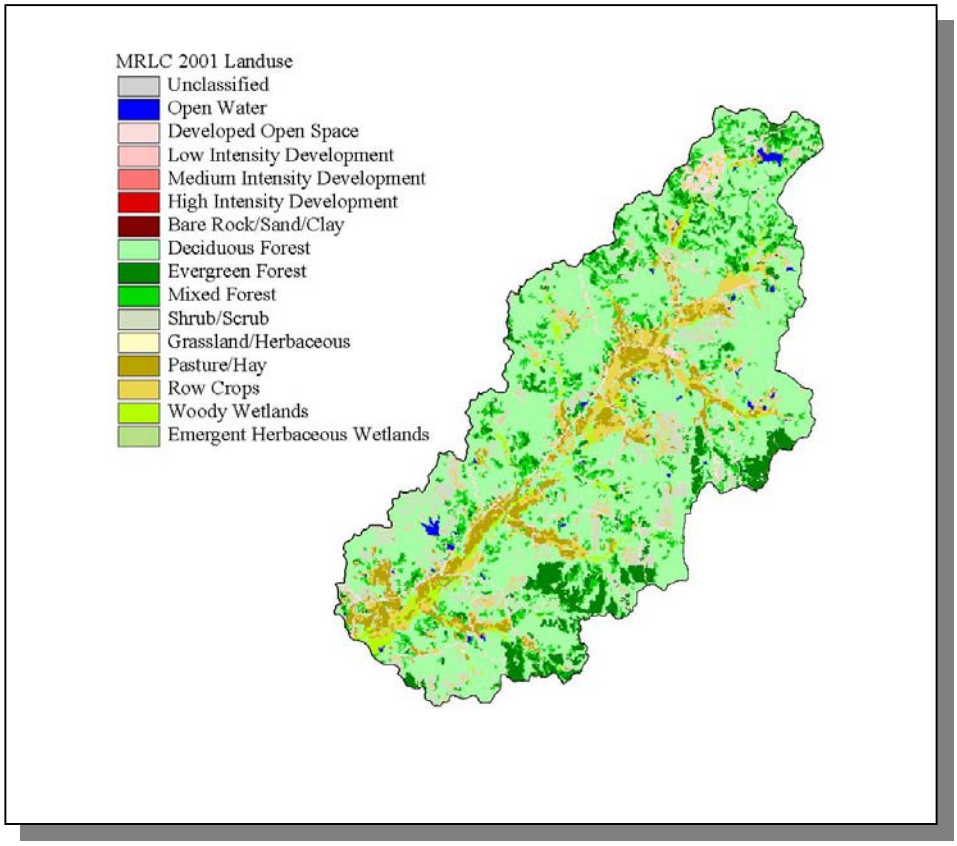


***Figure 4-44. Illustration of Land Use Distribution in Subwatershed 080102080106.***

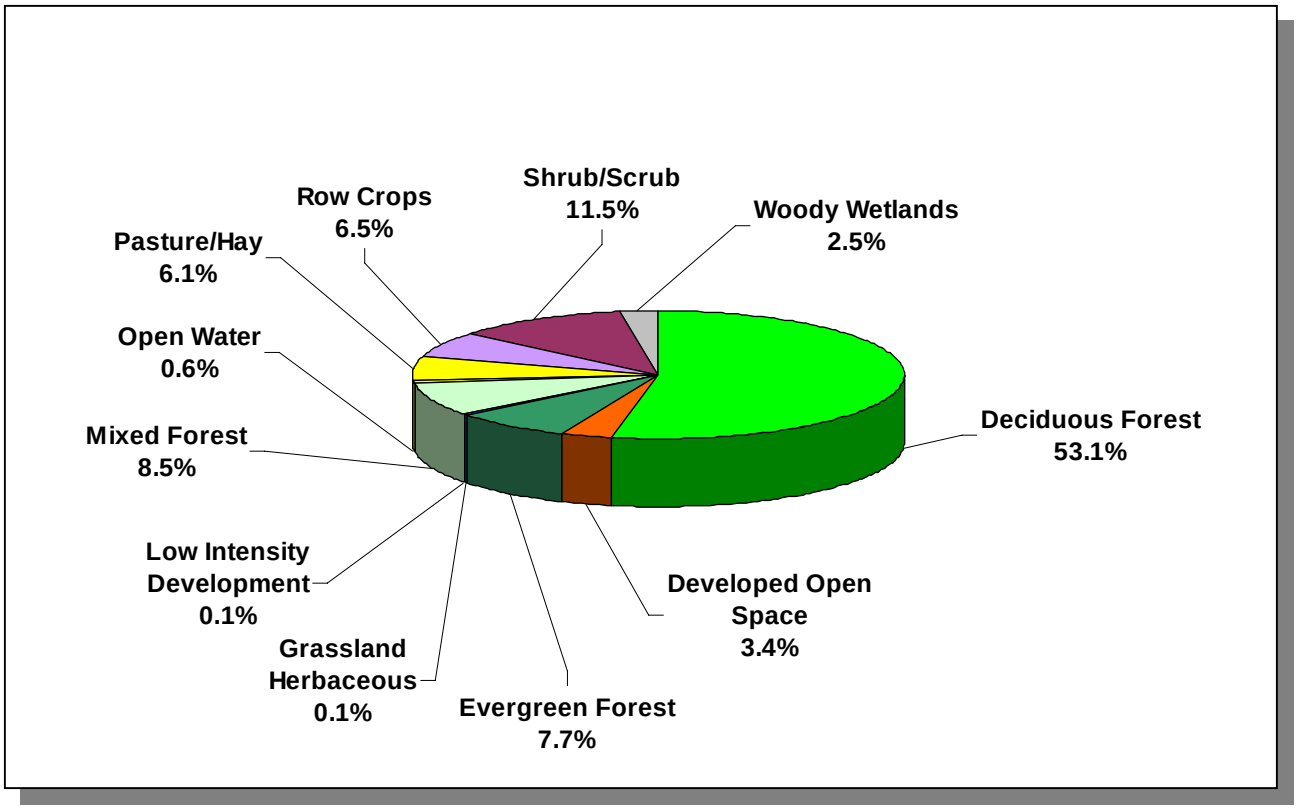


***Figure 4-45. Land Use Distribution in Subwatershed 080102080106.*** *More information is provided in Appendix IV.*

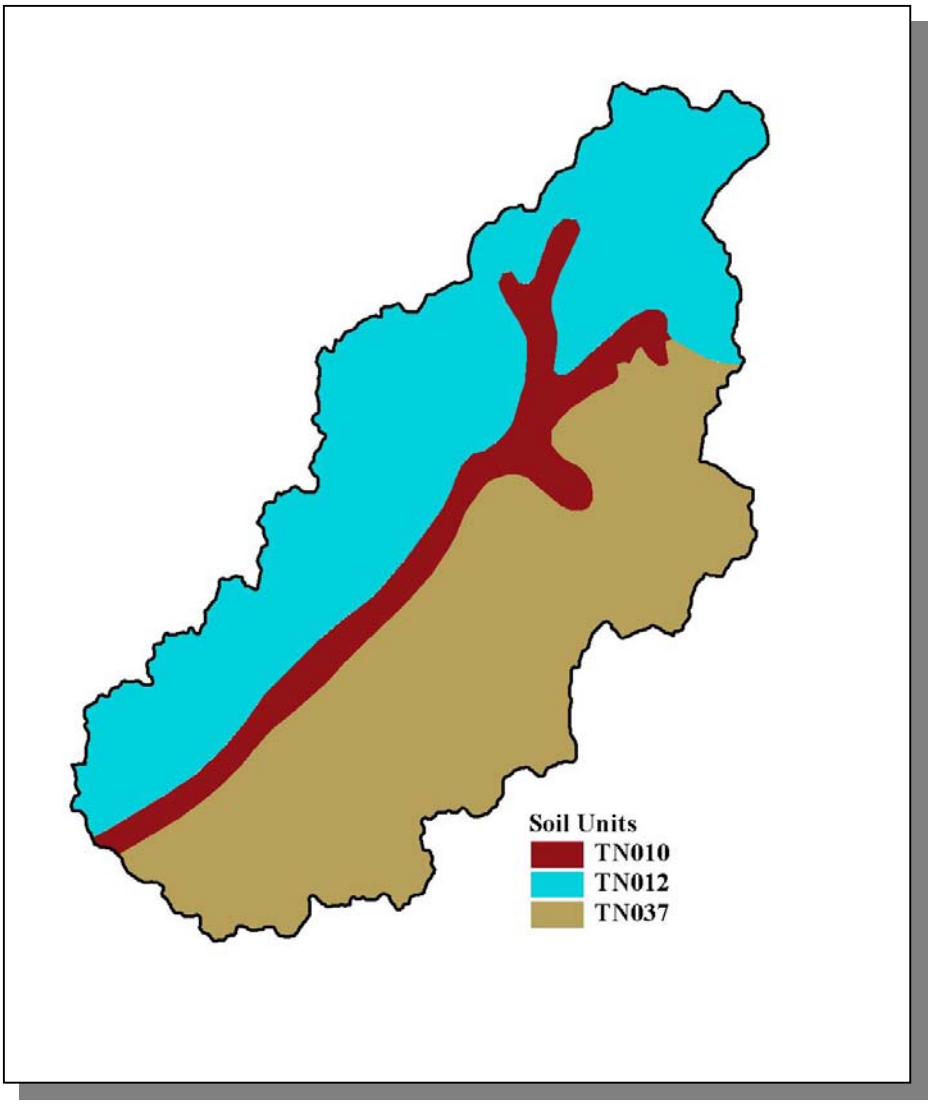


***Figure 4-46. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080106.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN037 | 0.00 | C | 3.51 | 4.86 | Sandy Loam | 0.27 |

***Table 4-34. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080106.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Chester | 12,819 | 14,469 | 15,540 | 4.89 | 627 | 708 | 760 | 21.2 |
| Hardeman | 23,377 | 24,702 | 28,105 | 4.86 | 1,136 | 1,201 | 1,366 | 20.2 |
| **Total** | **36,196** | **39,171** | **43,645** | | **1,763** | **1,909** | **2,126** | **20.6** |

***Table 4-35. Population Estimates in Subwatershed 080102080106.***

| | | | NUMBER OF HOUSING UNITS | | | |
|---|---|---|---|---|---|---|
| Populated Place | County | Population | Total | Public Sewer | Septic Tank | Other |
| | | | | | | |
| Silerton | Hardeman | 50 | 45 | 0 | 45 | 0 |

***Table 4-36. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080106.***

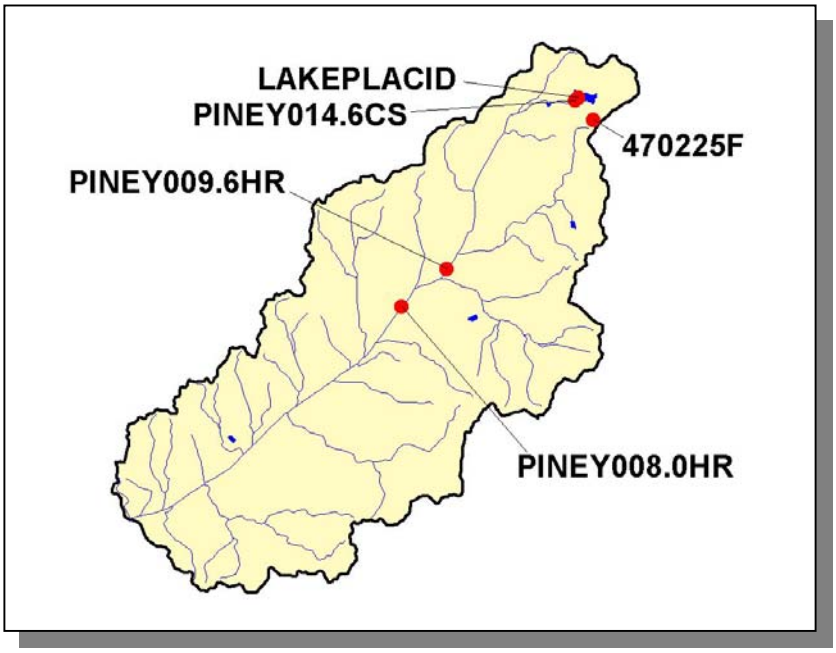


***Figure 4-47. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080106.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.vi.a. Point Source Contributions.

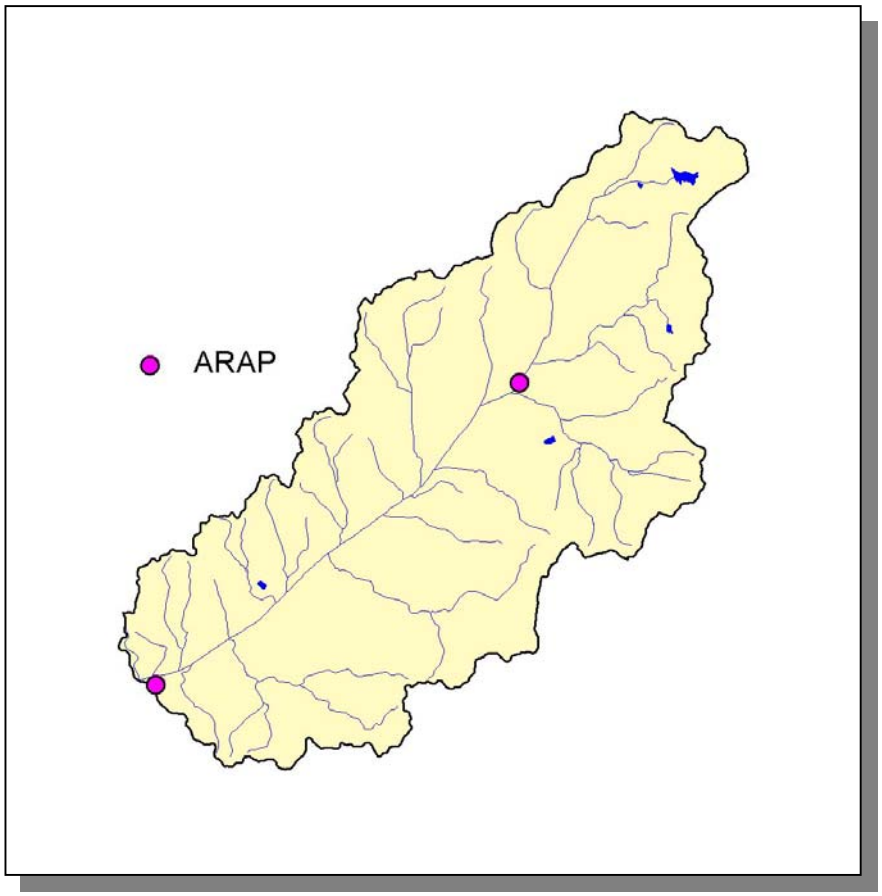


***Figure 4-48. Location of Permits Issued in Subwatershed 080102080106.*** *More information, including the names of facilities, is provided in Appendix IV.*

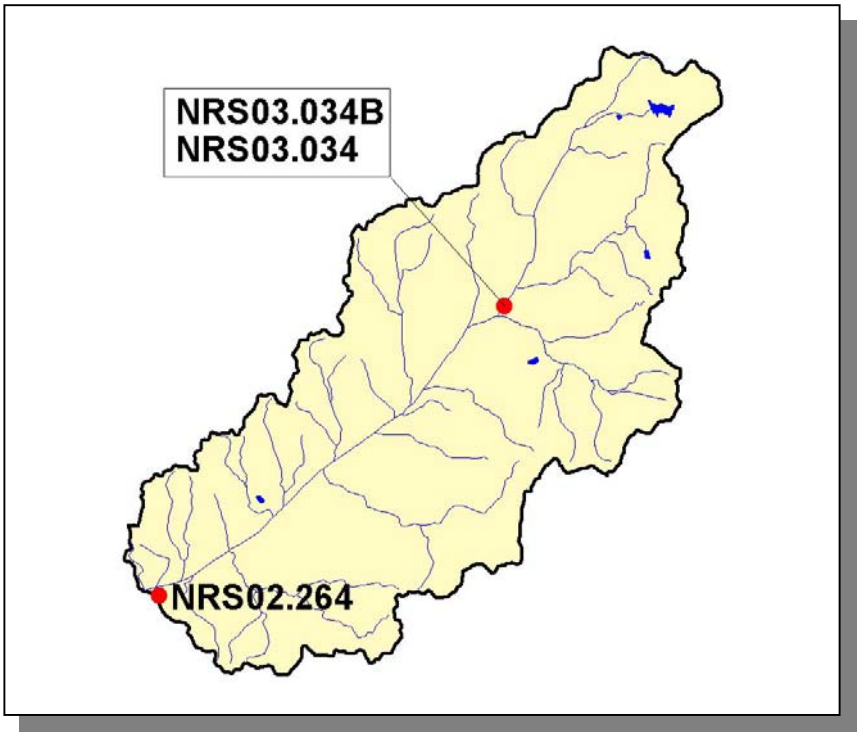


***Figure 4-49. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080106.*** *More information is provided in Appendix IV.*

4.2.A.vi.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 196 | 656 | <5 | <5 | 158 | <5 |

***Table 4-37. Summary of Livestock Count Estimates in Subwatershed 080102080106.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Chester | 0 | 9,108 | 0 | 14 | 1,331 | 0 |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-38. Summary of Livestock Count Estimates in Chester and Hardeman Counties.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Chester | 99.4 | 99.4 | 0.3 | 1.3 |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-39. Forest Acreage and Annual Removal Rates (1987-1994) in Chester and Hardeman Counties.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 0.96 |
| Grass (Hayland) | 0.36 |
| Legumes, Grass (Hayland) | 0.21 |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.86 |
| Corn (Row Crops) | 10.98 |
| Cotton (Row Crops) | 23.94 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 10.84 |
| Wheat (Close-Grown Cropland) | 13.69 |
| Other Vegetable and Truck Crops | 28.15 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 3.01 |
| Conservation Reserve Program Lands | 0.32 |
| Farmsteads and Ranch Headquarters | 0.70 |

***Table 4-40. Annual Estimated Total Soil Loss in Subwatershed 080102080106.***

4.2.A.vii. 080102080107 (Grays Creek).

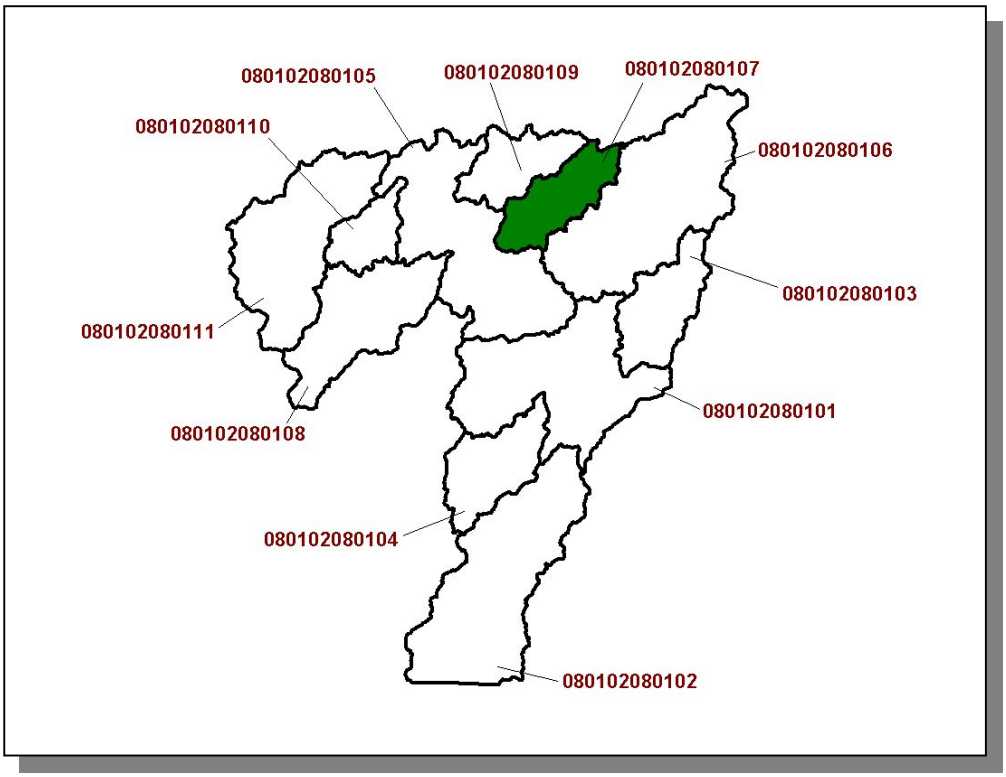


***Figure 4-50. Location of Subwatershed 080102080107.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

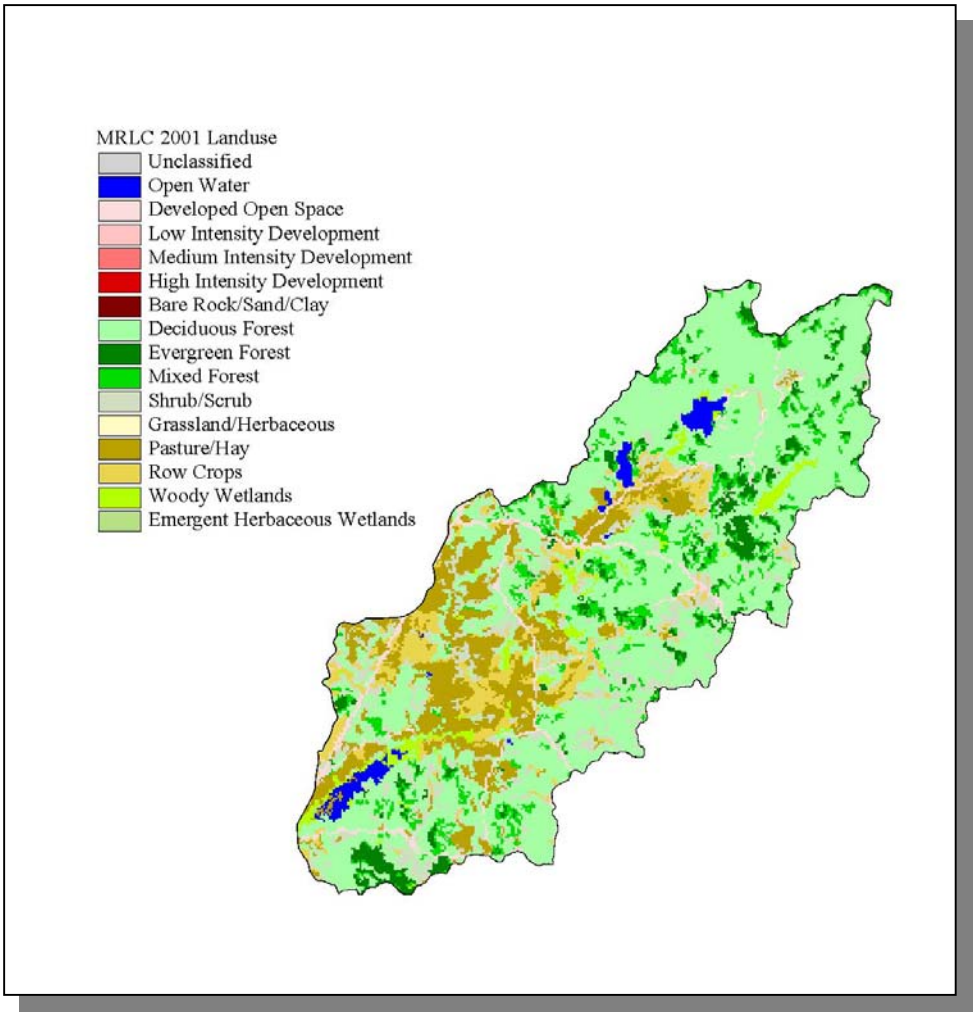


***Figure 4-51. Illustration of Land Use Distribution in Subwatershed 080102080107.***

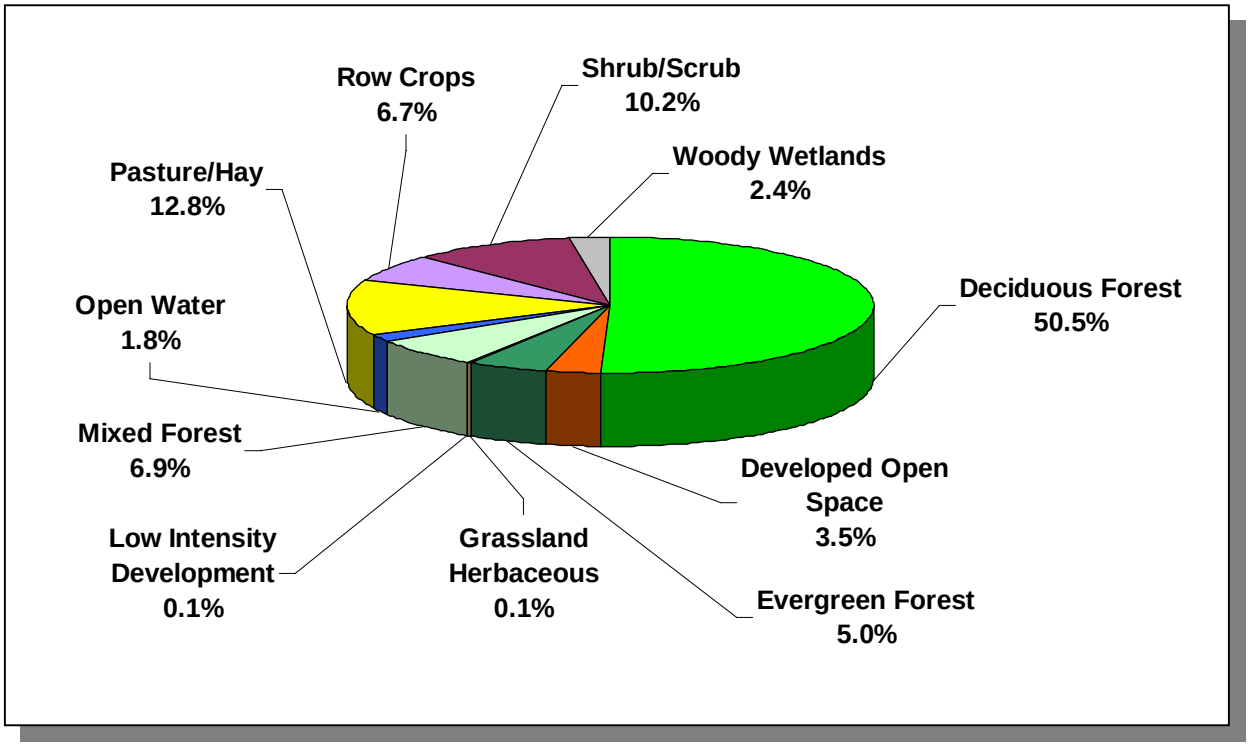


***Figure 4-52. Land Use Distribution in Subwatershed 080102080107.*** *More information is provided in Appendix IV.*

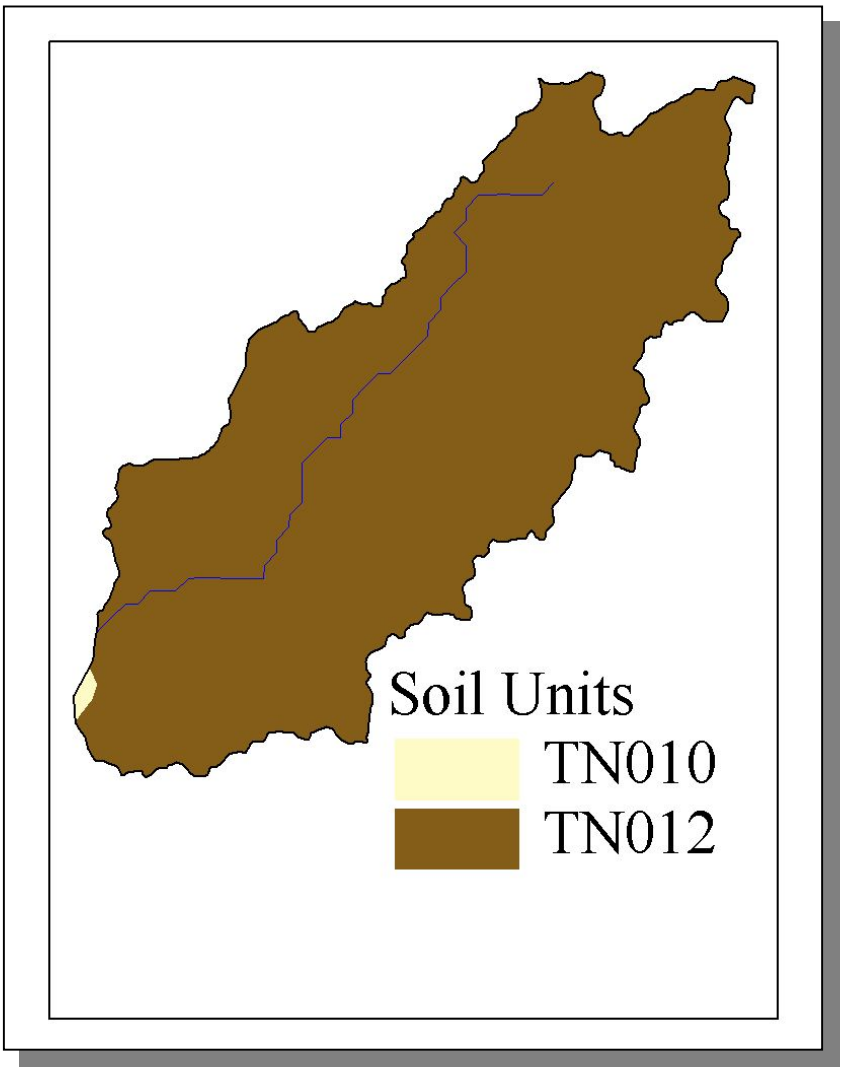


***Figure 4-53. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080107.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |

***Table 4-41. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080107.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

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| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 2.17 | 508 | 537 | 611 | 20.3 |

***Table 4-42. Population Estimates in Subwatershed 080102080107.***

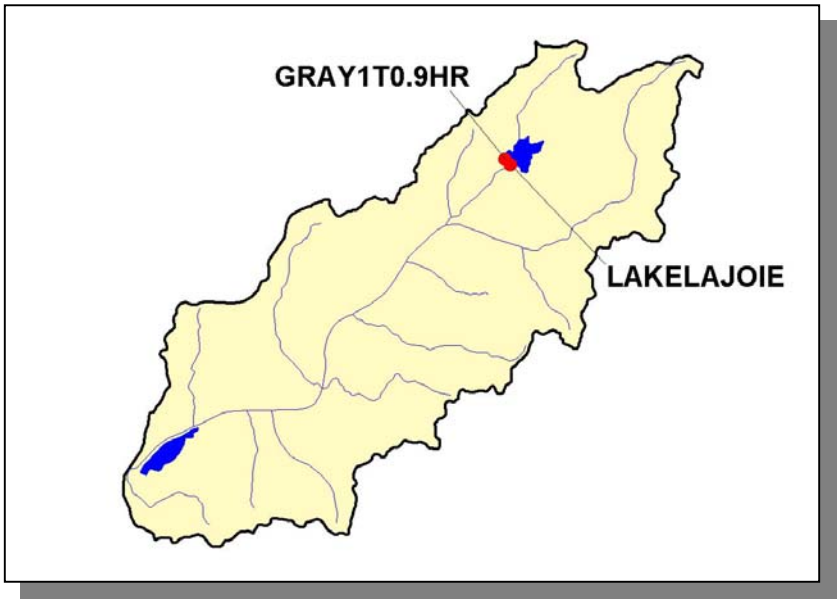


***Figure 4-54. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080107.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.vii.a. Point Source Contributions.

There are no point source contributions in this subwatershed.

4.2.A.vii.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 206 | 355 | <5 | <5 | 117 | <5 |

***Table 4-43. Summary of Livestock Count Estimates in Subwatershed 080102080107.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-44. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-45. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-46. Annual Estimated Total Soil Loss in Subwatershed 080102080107.***

4.2.A.viii. 080102080108 (Pleasant Run Creek).

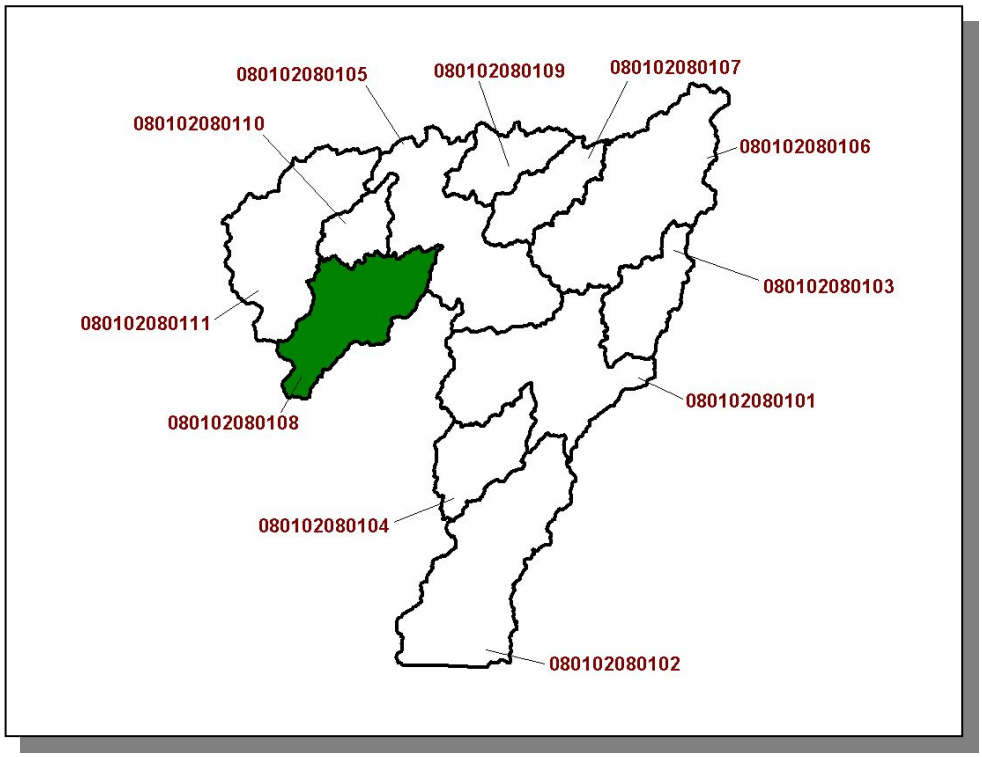


***Figure 4-55. Location of Subwatershed 080102080108.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

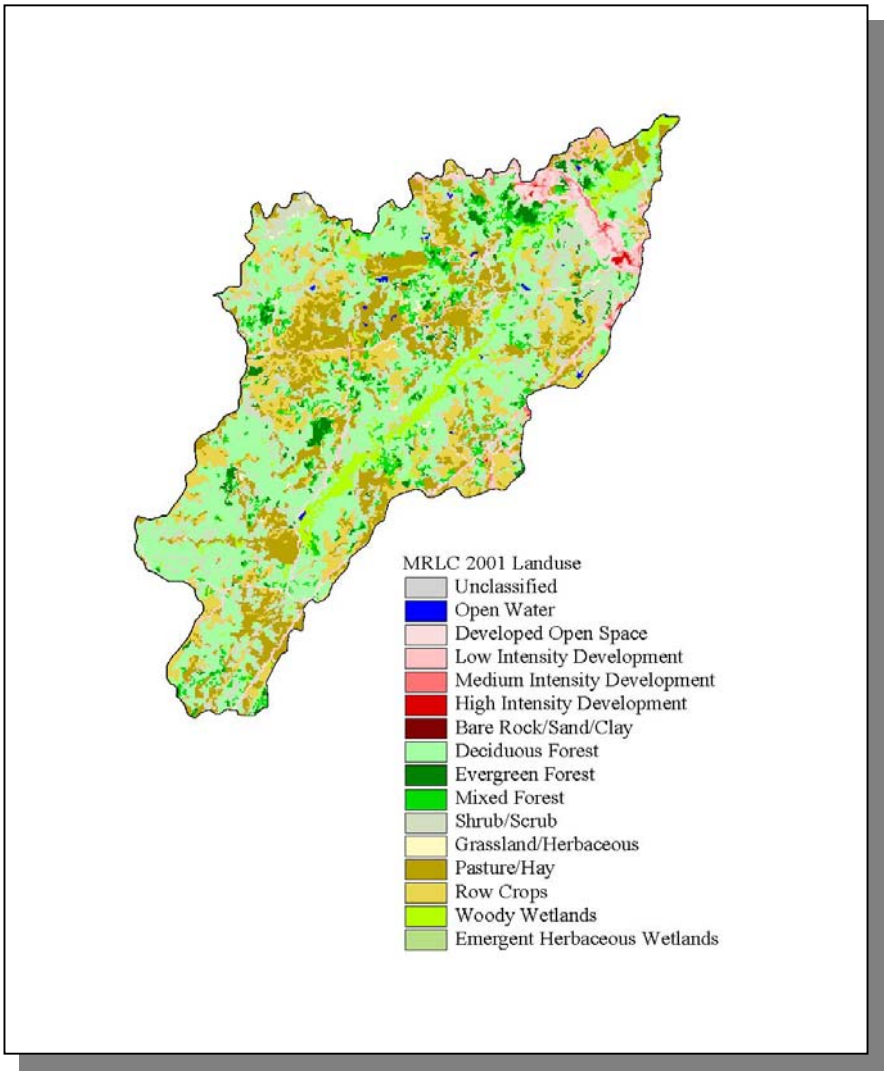


***Figure 4-56. Illustration of Land Use Distribution in Subwatershed 080102080108.***

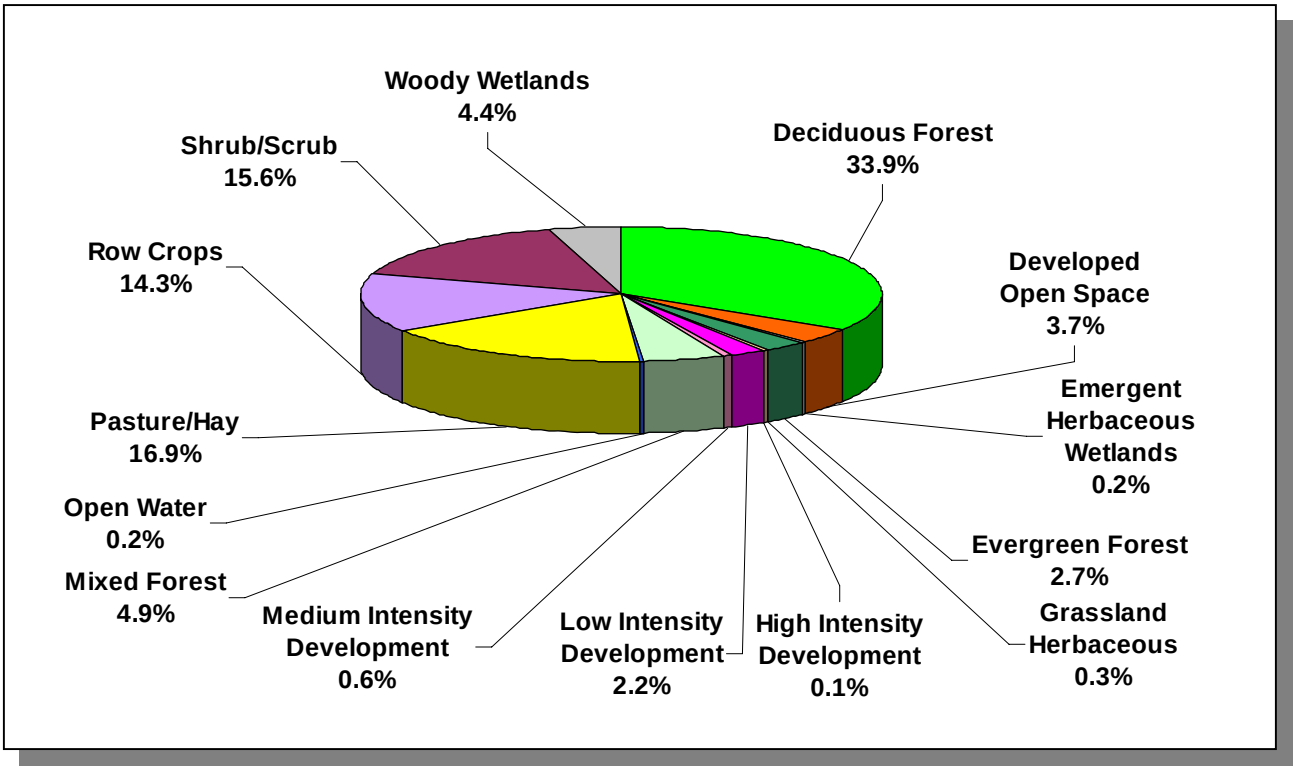


***Figure 4-57. Land Use Distribution in Subwatershed 080102080108.*** *More information is provided in Appendix IV.*

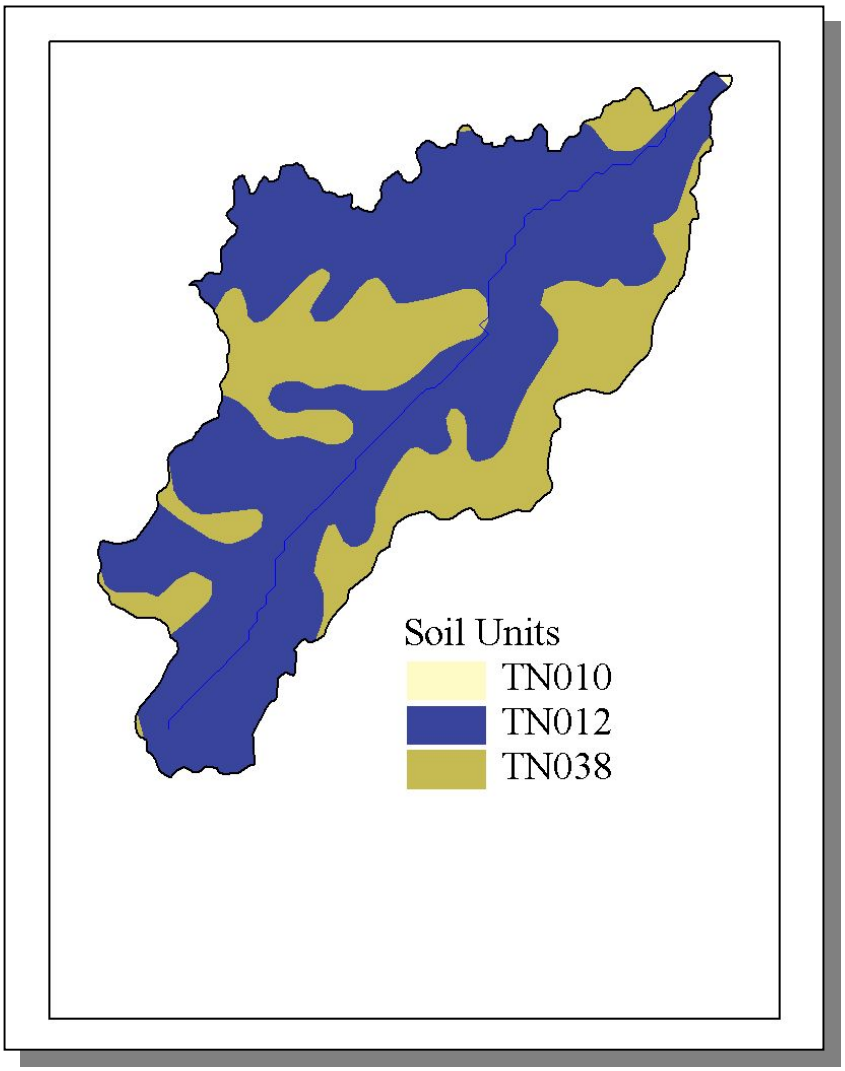


***Figure 4-58. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080108.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN038 | 9.00 | C | 1.6 | 5.20 | Silty Loam | 0.46 |

***Table 4-47. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080108.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 3.96 | 925 | 978 | 1,113 | 20.3 |

***Table 4-48. Population Estimates in Subwatershed 080102080108.***

| | | | NUMBER OF HOUSING UNITS | | | |
|---|---|---|---|---|---|---|
| Populated Place | County | Population | Total | Public Sewer | Septic Tank | Other |
| | | | | | | |
| Bolivar | Hardeman | 5,969 | 2,098 | 1,915 | 161 | 22 |

***Table 4-49. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080108.***

***Figure 4-59. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080108.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.viii.a. Point Source Contributions.

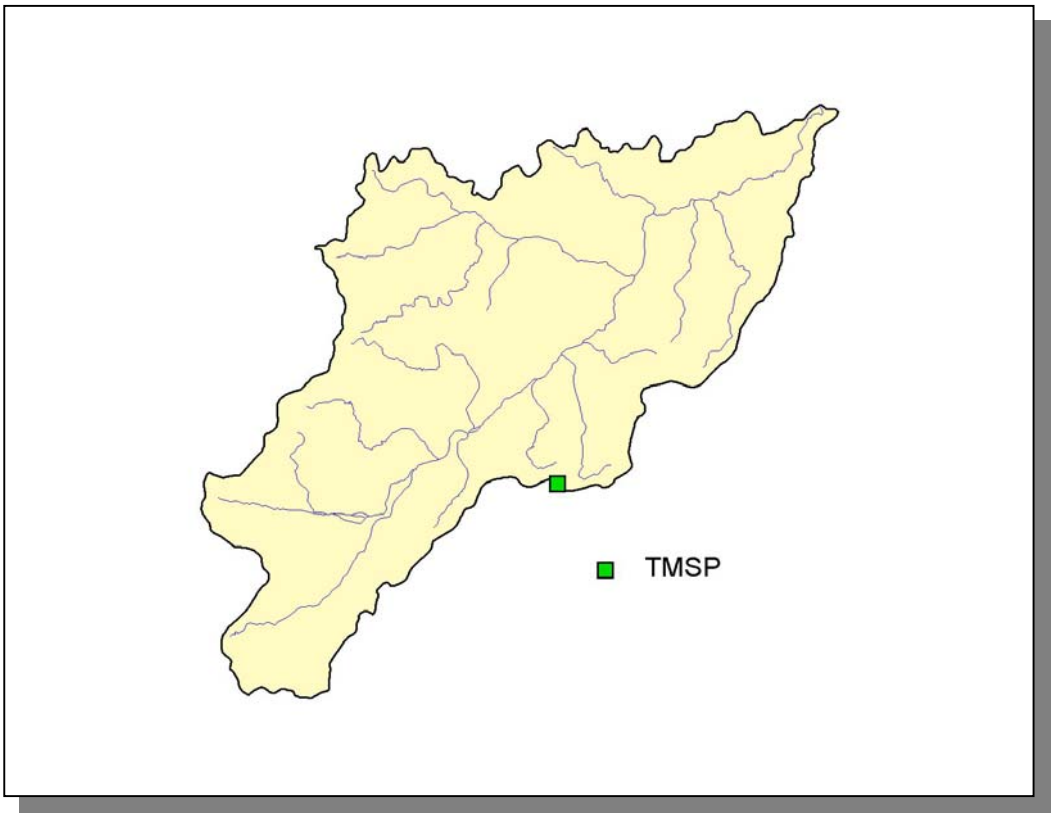


***Figure 4-60. Location of Permits Issued in Subwatershed 080102080108.*** *More information, including the names of facilities, is provided in Appendix IV.*

***Figure 4-61. Location of TMSP Sites in Subwatershed 080102080108.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.viii.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 429 | 742 | <5 | <5 | 244 | 7 |

***Table 4-50. Summary of Livestock Count Estimates in Subwatershed 080102080108.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-51. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-52. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-53. Annual Estimated Total Soil Loss in Subwatershed 080102080108.***

4.2.A.ix. 080102080109 (Mill Creek).

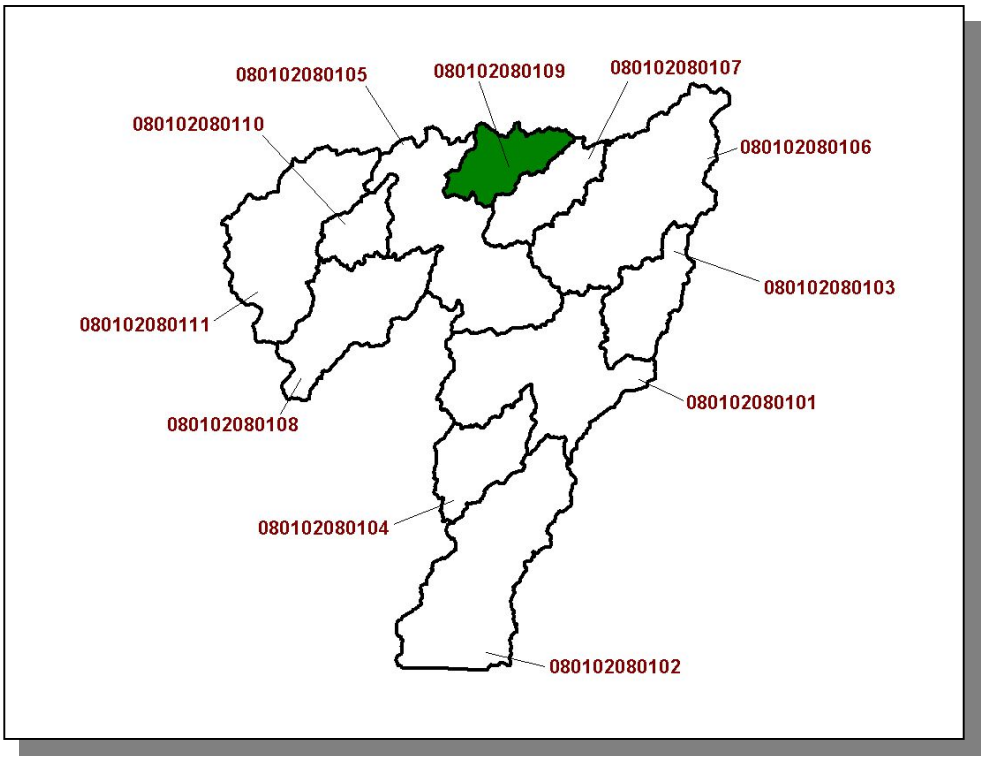


***Figure 4-62. Location of Subwatershed 080102080109.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

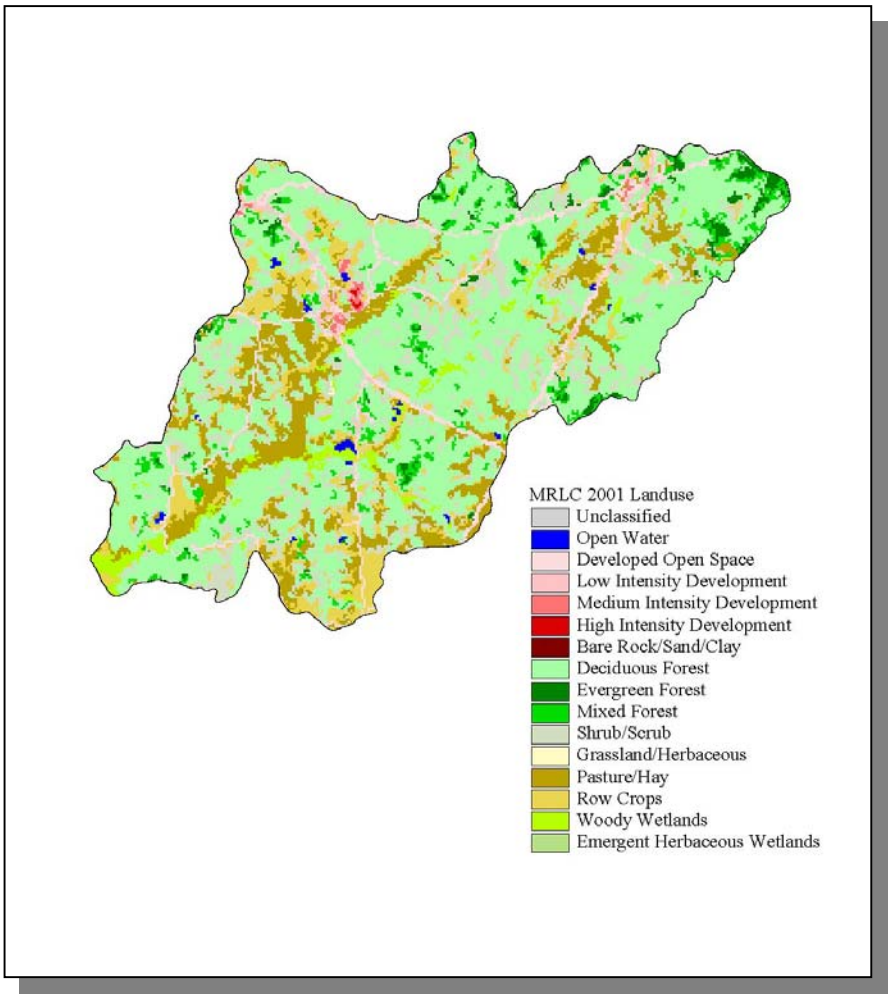


***Figure 4-63. Illustration of Land Use Distribution in Subwatershed 080102080109.***

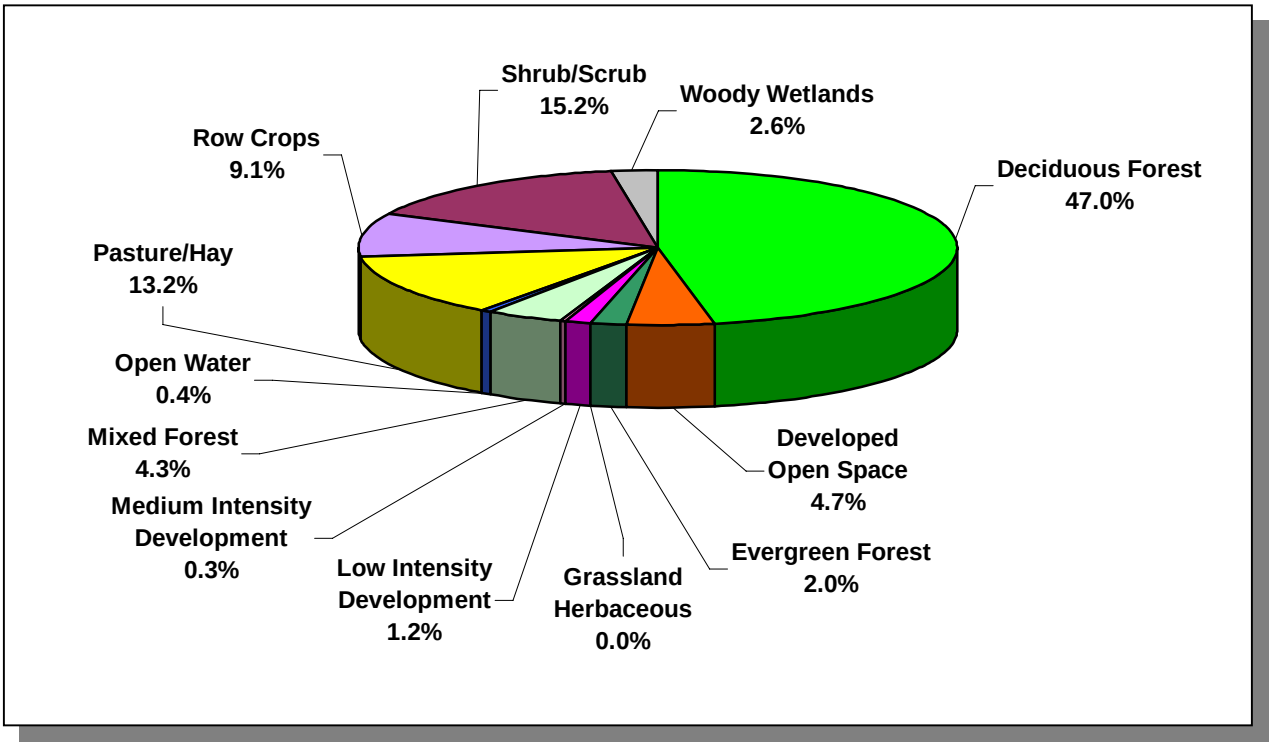


***Figure 4-64. Land Use Distribution in Subwatershed 080102080109.*** *More information is provided in Appendix IV.*

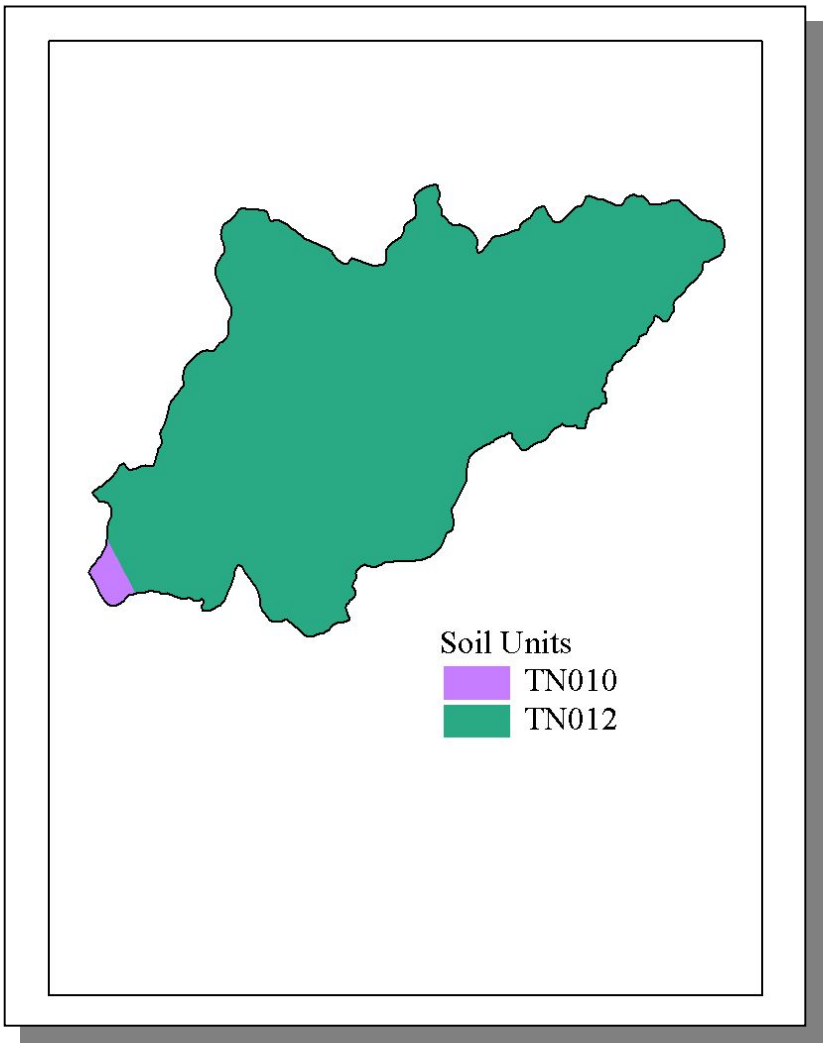


***Figure 4-65. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080109.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |

***Table 4-54. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080109.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 1.93 | 452 | 478 | 544 | 20.4 |

***Table 4-55. Population Estimates in Subwatershed 080102080109.***

| | | | NUMBER OF HOUSING UNITS | | | |
|---|---|---|---|---|---|---|
| Populated Place | County | Population | Total | Public Sewer | Septic Tank | Other |
| | | | | | | |
| Toone | Hardeman | 279 | 102 | 69 | 33 | 0 |

***Table 4-56. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080109.***

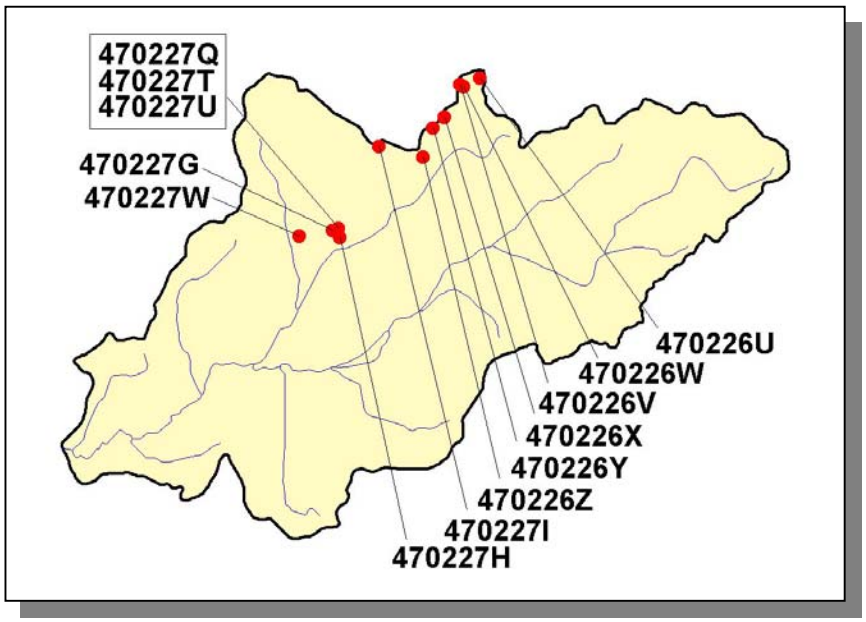


***Figure 4-66. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080109.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.ix.a. Point Source Contributions.

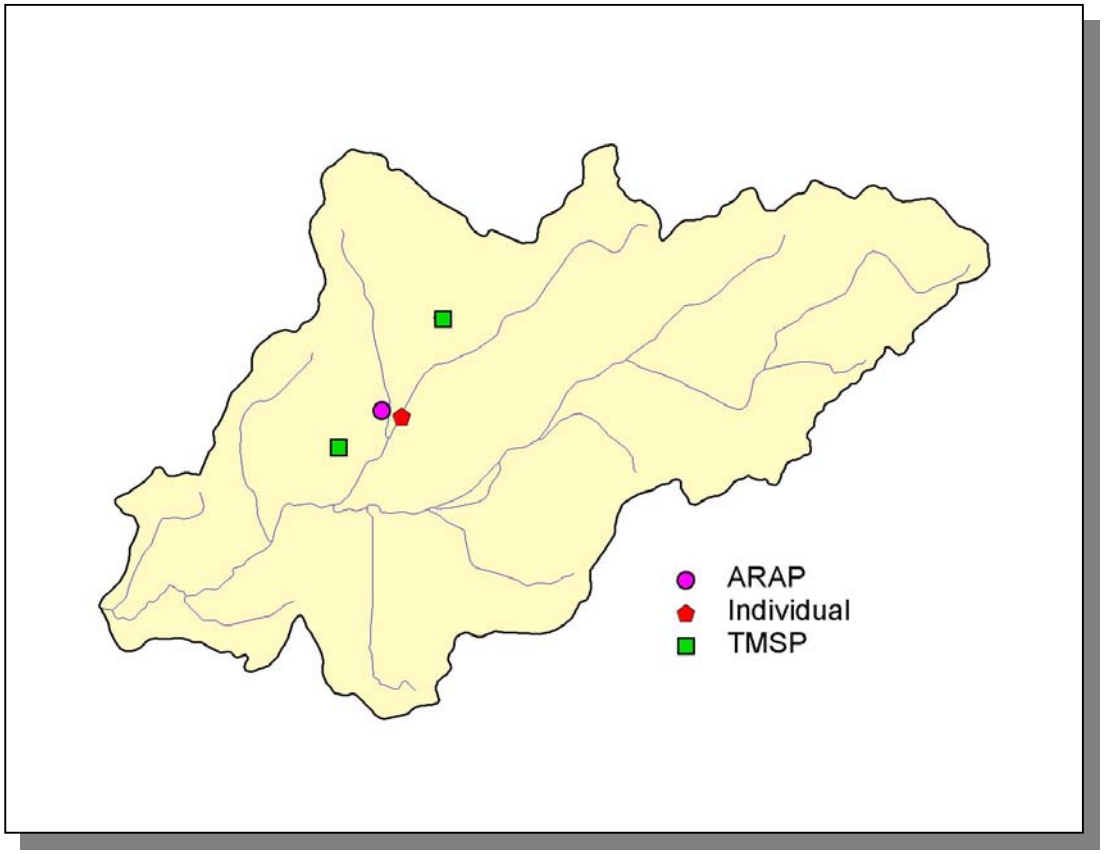


***Figure 4-67. Location of Permits Issued in Subwatershed 080102080109.*** *More information, including the names of facilities, is provided in Appendix IV.*

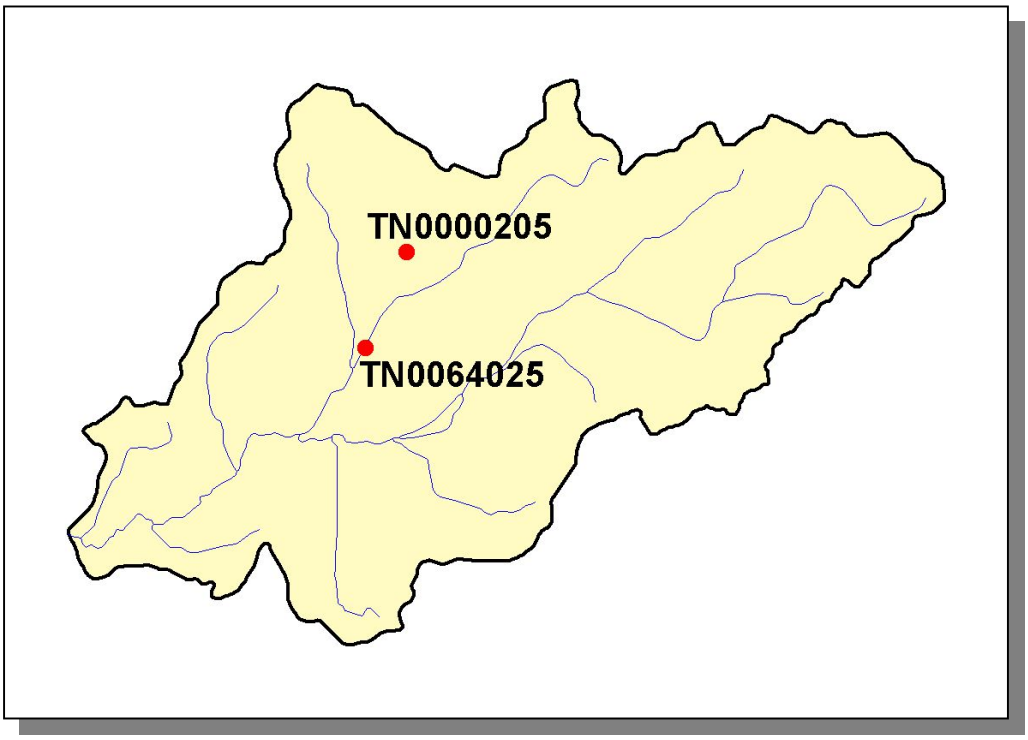


***Figure 4-68. Location of Active NPDES Sites in Subwatershed 080102080109.*** *More information, including the names of facilities, is provided in Appendix IV.*

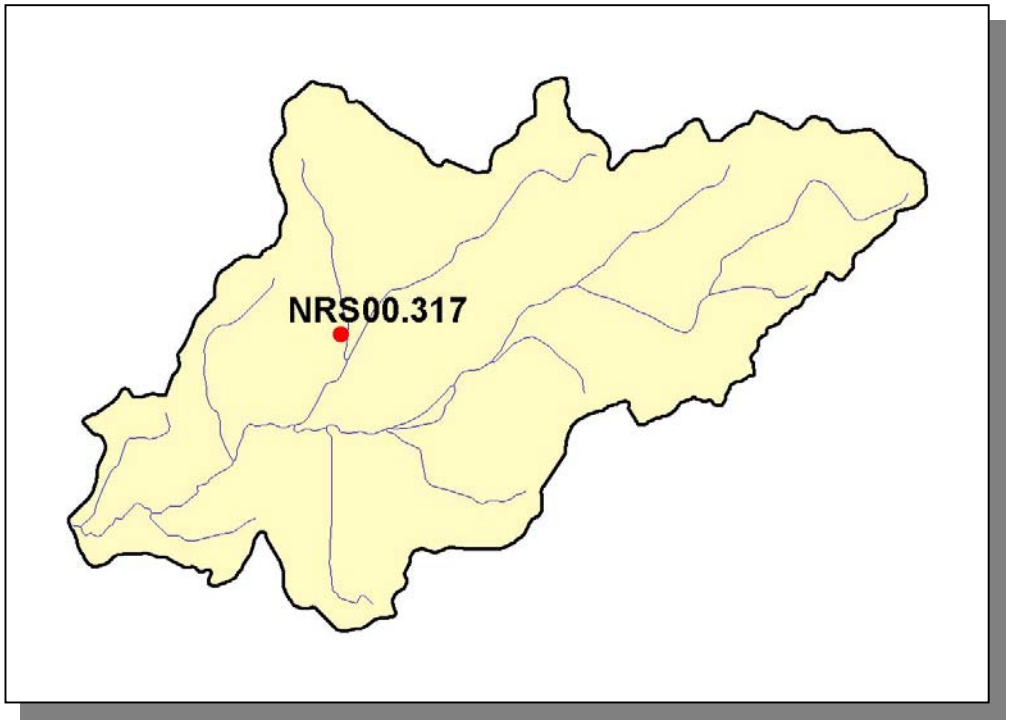


***Figure 4-69. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080109.*** *More information is provided in Appendix IV.*

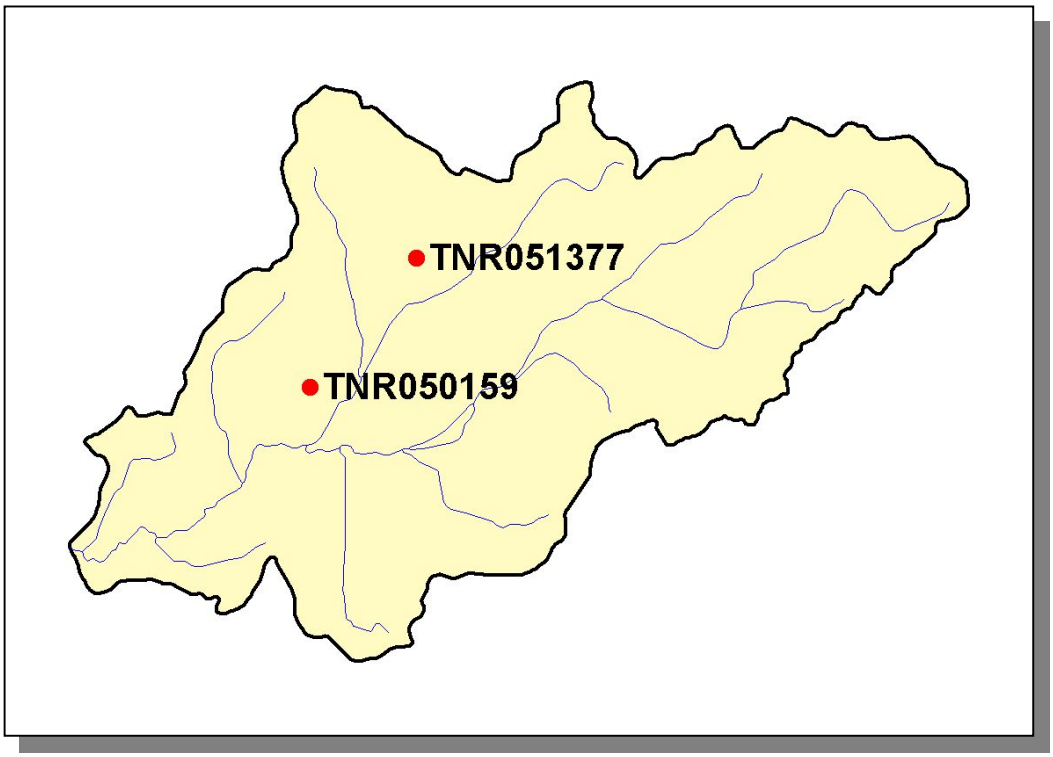


***Figure 4-70. Location of TMSP Sites in Subwatershed 080102080109.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.ix.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 176 | 305 | <5 | <5 | 100 | <5 |

***Table 4-57. Summary of Livestock Count Estimates in Subwatershed 080102080109.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-58. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-59. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-60. Annual Estimated Total Soil Loss in Subwatershed 080102080109.***

4.2.A.x. 080102080110 (Short Creek).

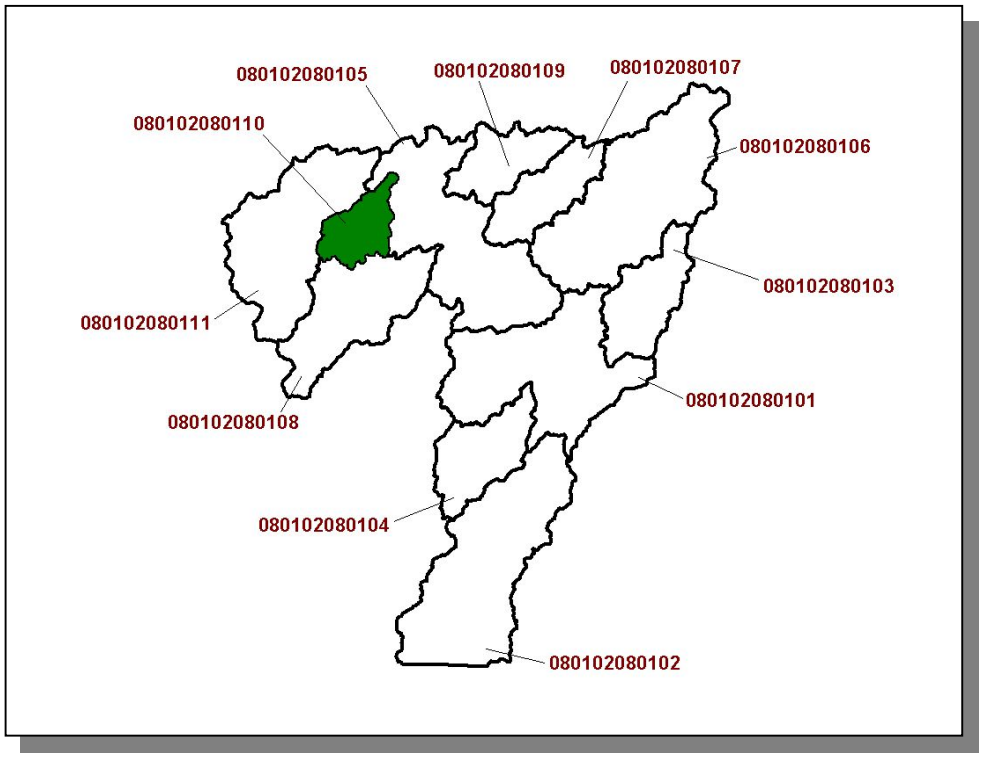


***Figure 4-71. Location of Subwatershed 080102080110.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

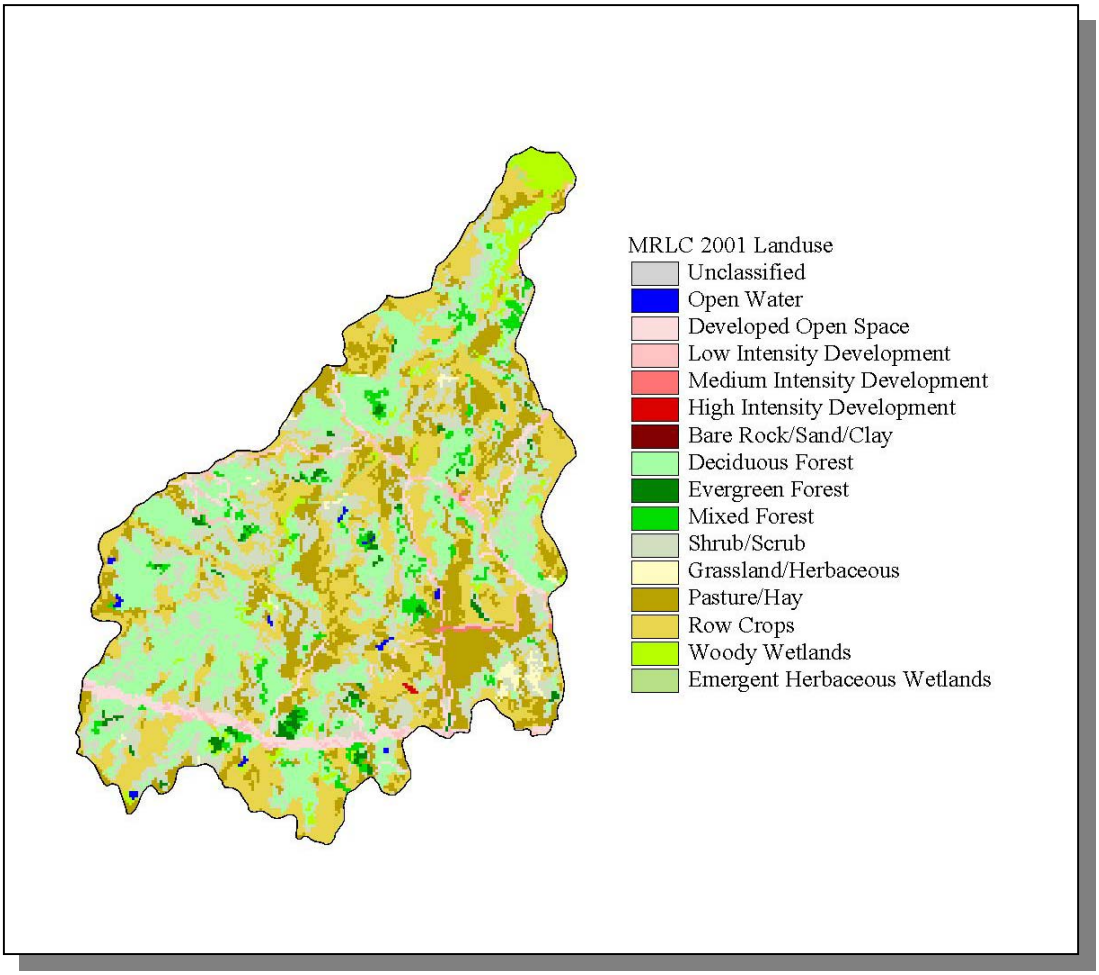


***Figure 4-72. Illustration of Land Use Distribution in Subwatershed 080102080110.***

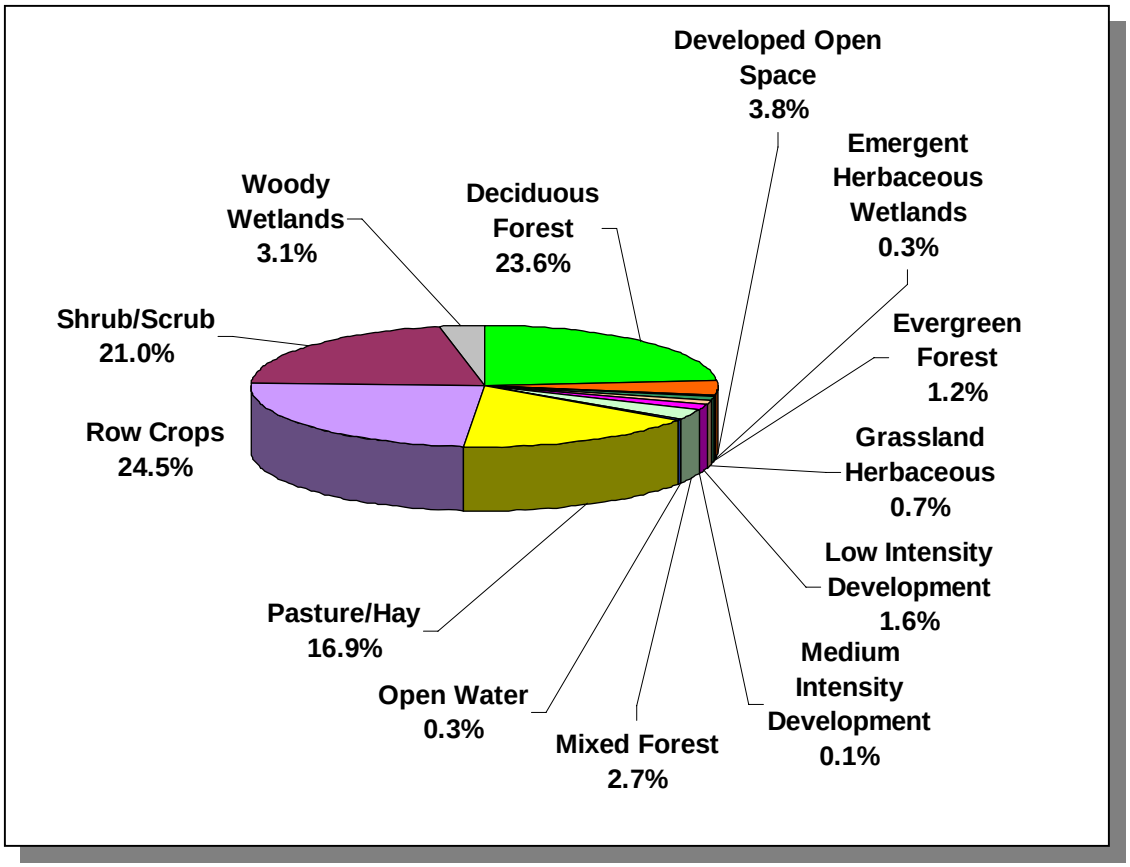


***Figure 4-73. Land Use Distribution in Subwatershed 080102080110.*** *More information is provided in Appendix IV.*

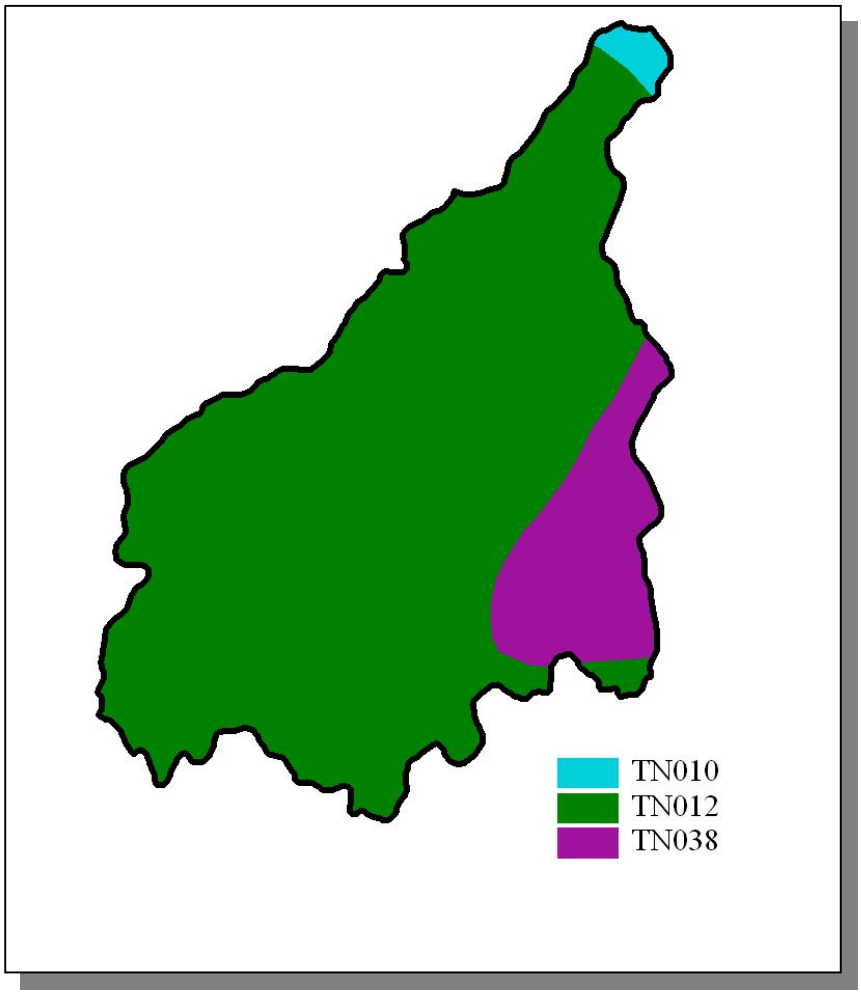


***Figure 4-74. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080110.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN038 | 9.00 | C | 1.65 | 5.20 | Silty Loam | 0.46 |

***Table 4-61. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080110.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 1.35 | 316 | 334 | 380 | 20.3 |

***Table 4-62. Population Estimates in Subwatershed 080102080110.***

***Figure 4-75. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080110.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.x.a. Point Source Contributions.

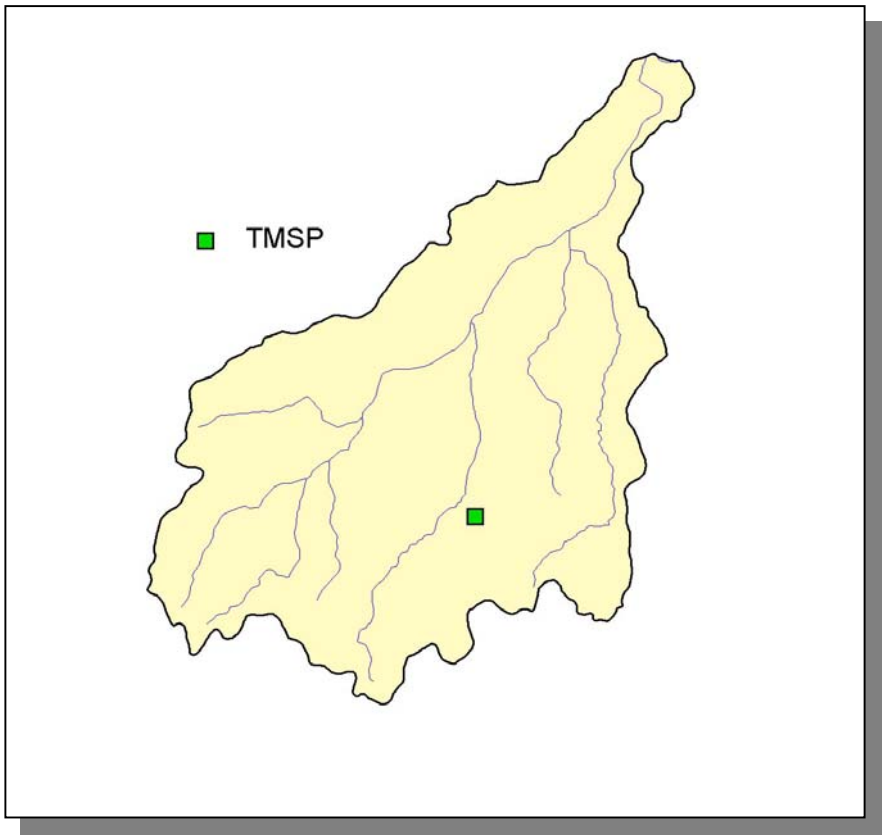


***Figure 4-76. Location of Permits Issued in Subwatershed 0801020810.*** *More information, including the names of facilities, is provided in Appendix IV.*

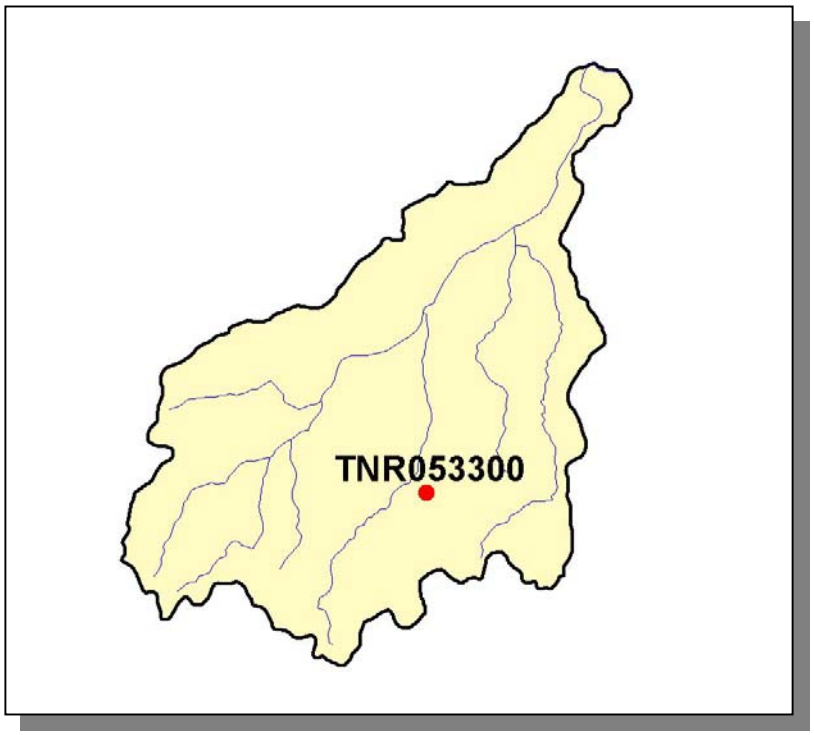


***Figure 4-77. Location of TMSP Sites in Subwatershed 080102080110.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.x.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | |
|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Hogs | Sheep |
| | | | | |
| 160 | 276 | <5 | 91 | <5 |

***Table 4-63. Summary of Livestock Count Estimates in Subwatershed 080102080110.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-64. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-65. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Summer Fallow (Other Cropland) | 6.11 |
| Other Cropland not Planted | 4.23 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-66. Annual Estimated Total Soil Loss in Subwatershed 080102080110.***

4.2.A.xi. 080102080111 (Clear Creek).

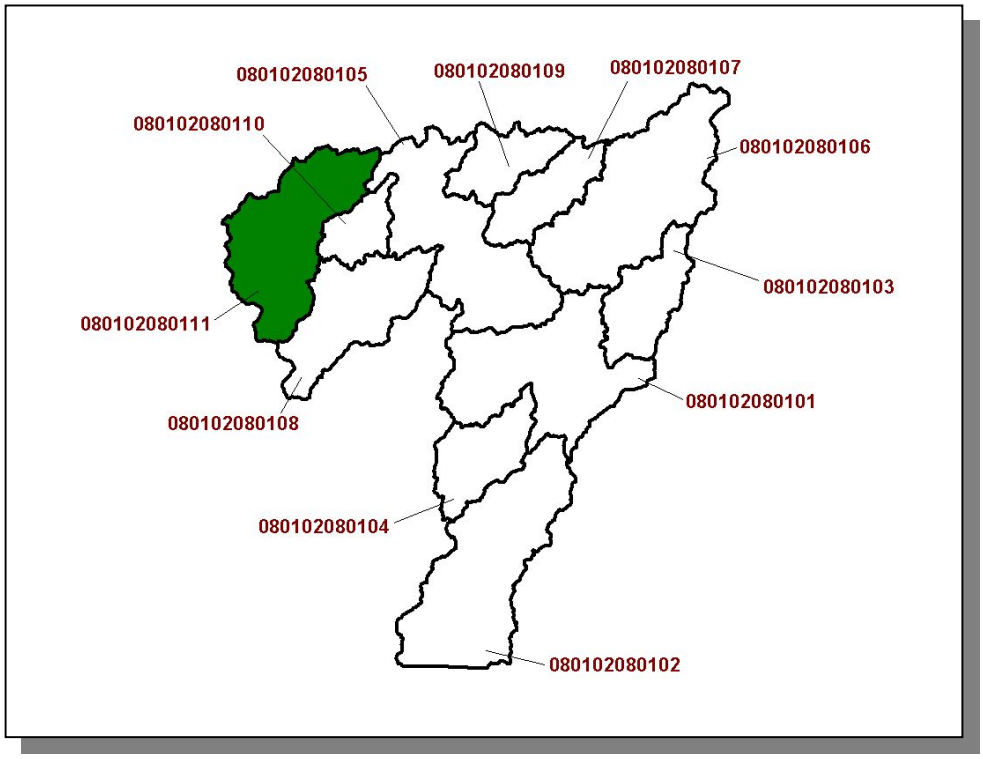


***Figure 4-78. Location of Subwatershed 080102080111.*** *All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.*

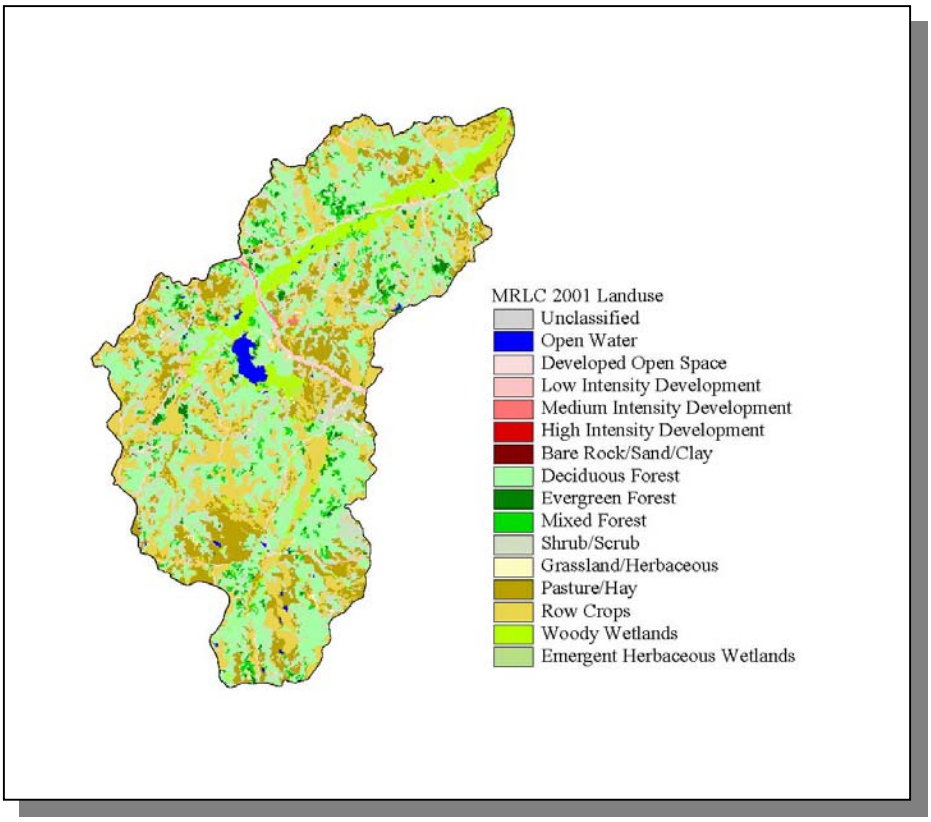


***Figure 4-79. Illustration of Land Use Distribution in Subwatershed 080102080111.***

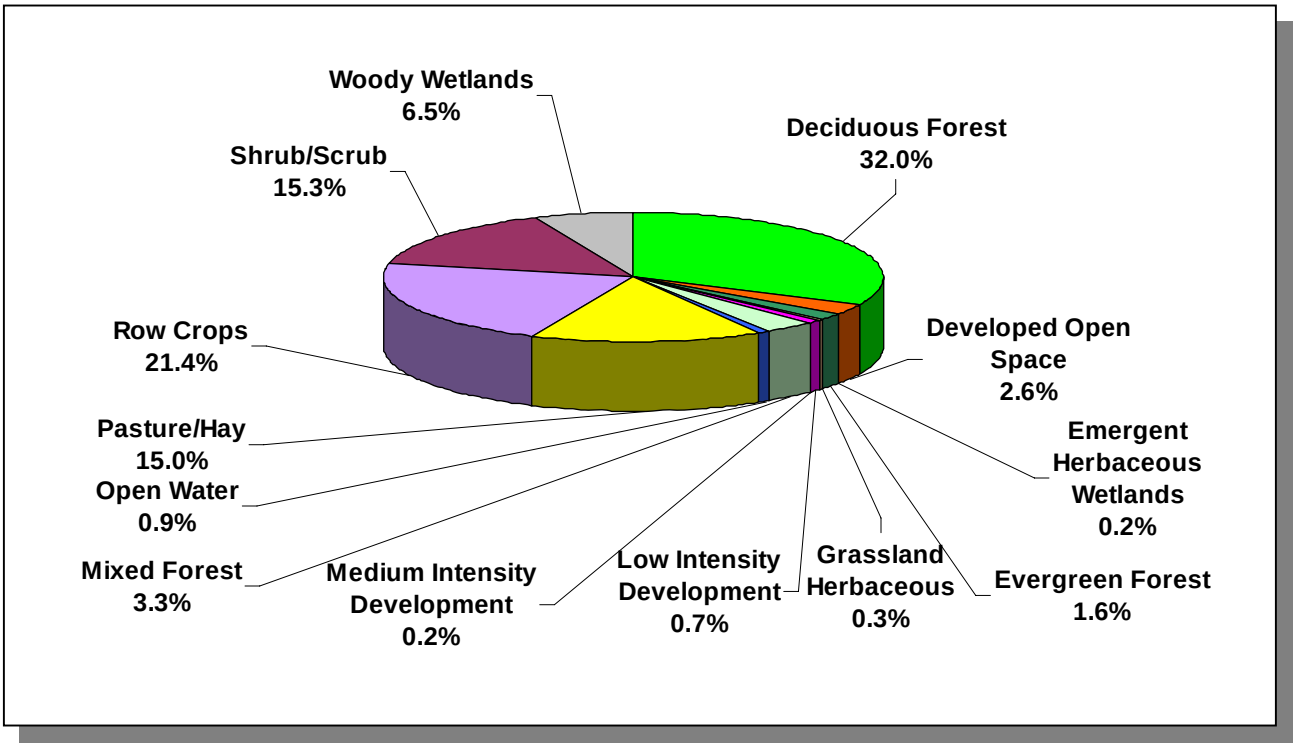


***Figure 4-80. Land Use Distribution in Subwatershed 080102080111.*** *More information is provided in Appendix IV.*

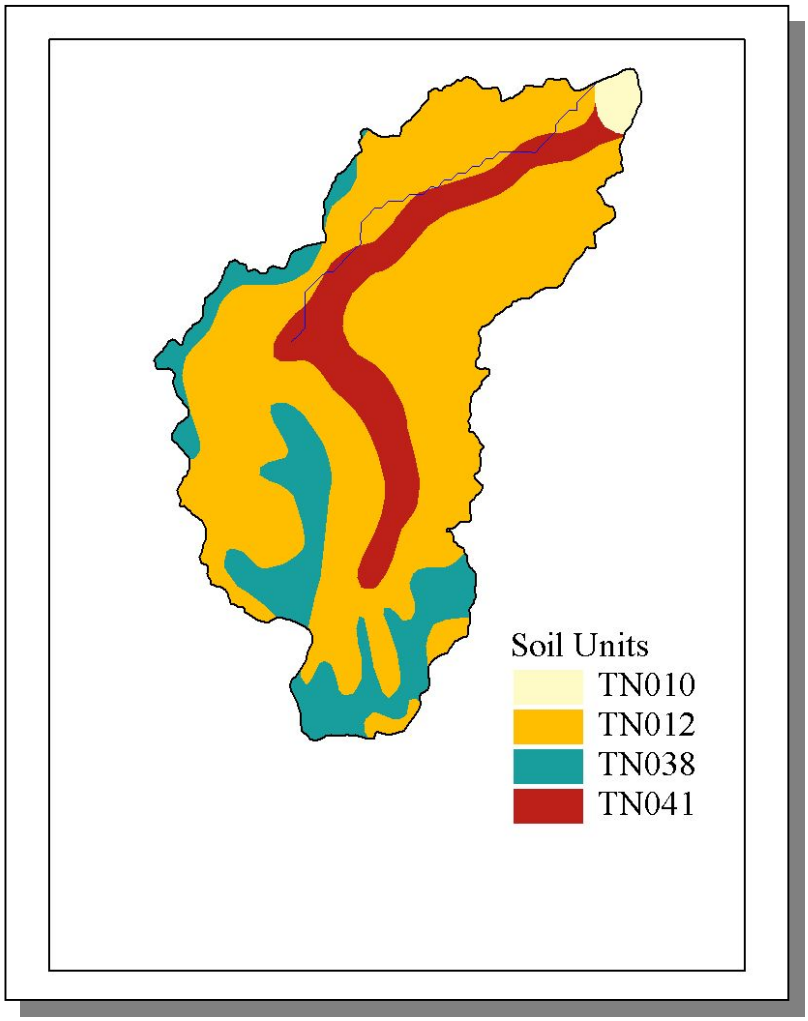


***Figure 4-81. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080111.***

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---|---|---|---|---|---|---|
| TN010 | 81.00 | C | 1.33 | 5.11 | Silty Loam | 0.44 |
| TN012 | 1.00 | C | 2.52 | 5.13 | Silty Loam | 0.39 |
| TN038 | 9.00 | C | 1.65 | 5.20 | Silty Loam | 0.46 |
| TN041 | 59.00 | C | 1.35 | 4.98 | Silty Loam | 0.34 |

***Table 4-67. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080111.*** *The definition of "Hydrologic Group" is provided in Appendix IV.*

.

| | COUNTY POPULATION | | | | ESTIMATED POPULATION IN WATERSHED | | | |
|---|---|---|---|---|---|---|---|---|
| County | 1990 | 1997 | 2000 | Portion of Watershed (%) | 1990 | 1997 | 2000 | % Change (1990-2000) |
| | | | | | | | | |
| Hardeman | 23,377 | 24,702 | 28,105 | 5.27 | 1,231 | 1,301 | 1,480 | 20.2 |

***Table 4-68. Population Estimates in Subwatershed 080102080111.***

***Figure 4-82. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080111.*** *More information, including site names and locations, is provided in Appendix IV.*

4.2.A.xi.a. Point Source Contributions.

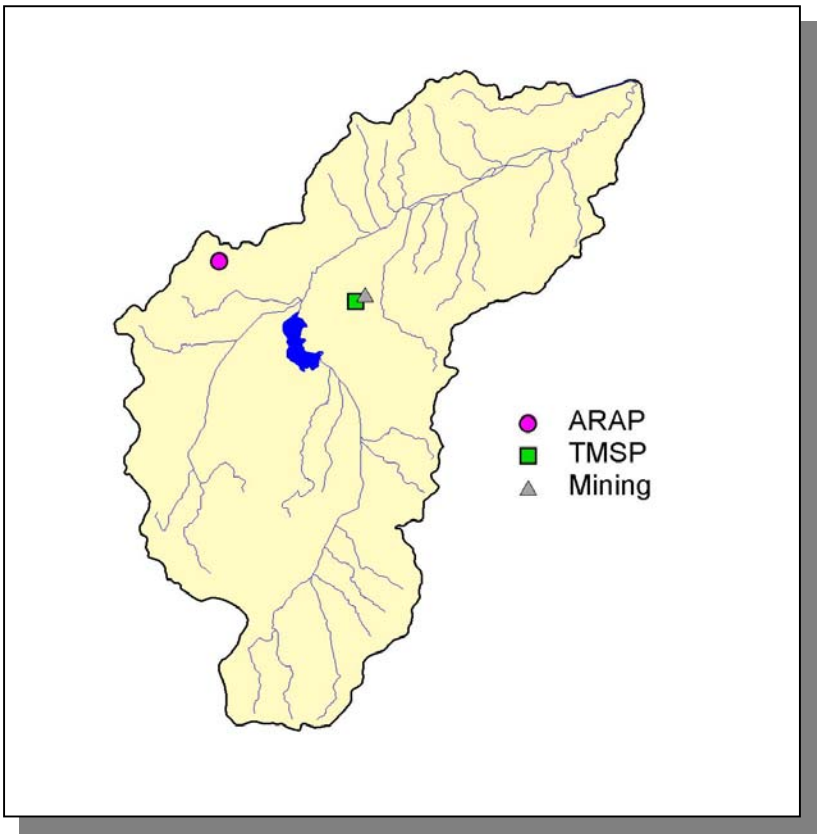


***Figure 4-83. Location of Permits Issued in Subwatershed 080102080111.*** *More information, including the names of facilities, is provided in Appendix IV.*

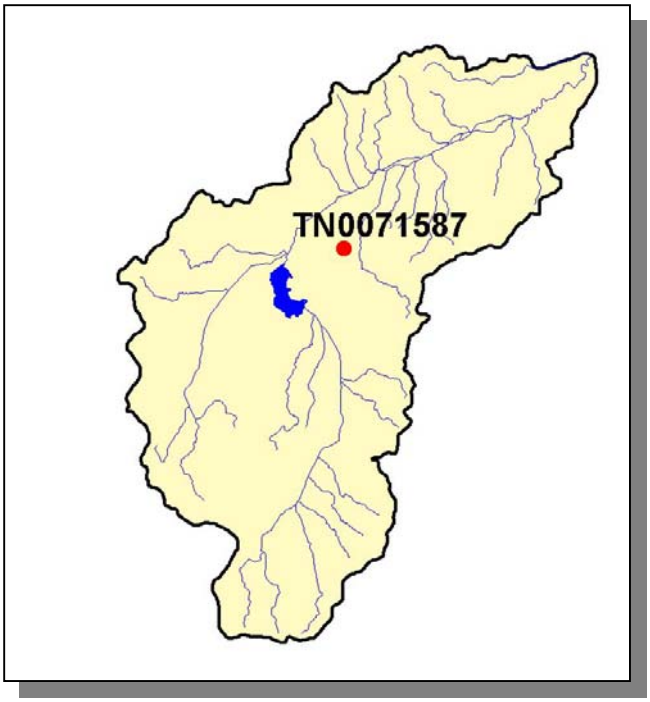


***Figure 4-84. Location of Active Mining Sites in Subwatershed 080102080111.*** *More information, including the names of mining operations, is provided in Appendix IV.*

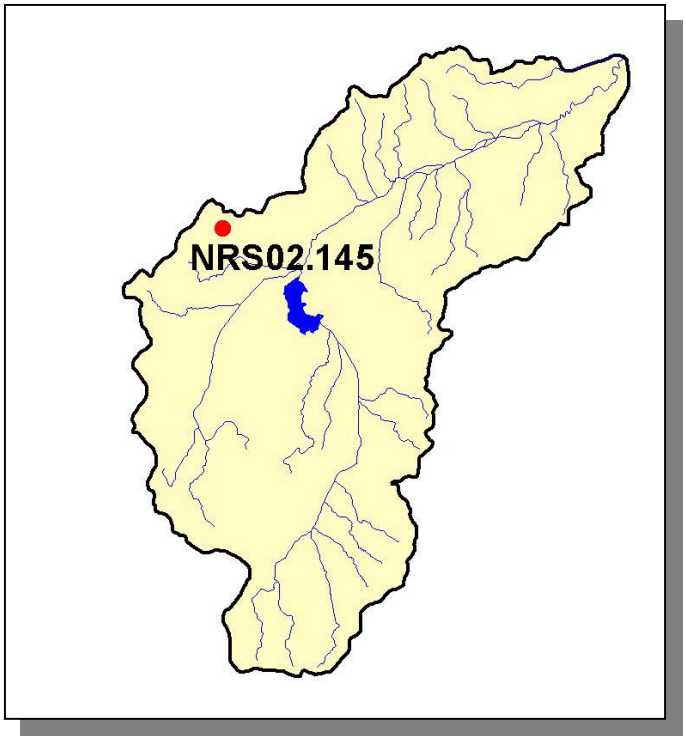


***Figure 4-85. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 080102080111.*** *More information is provided in Appendix IV.*

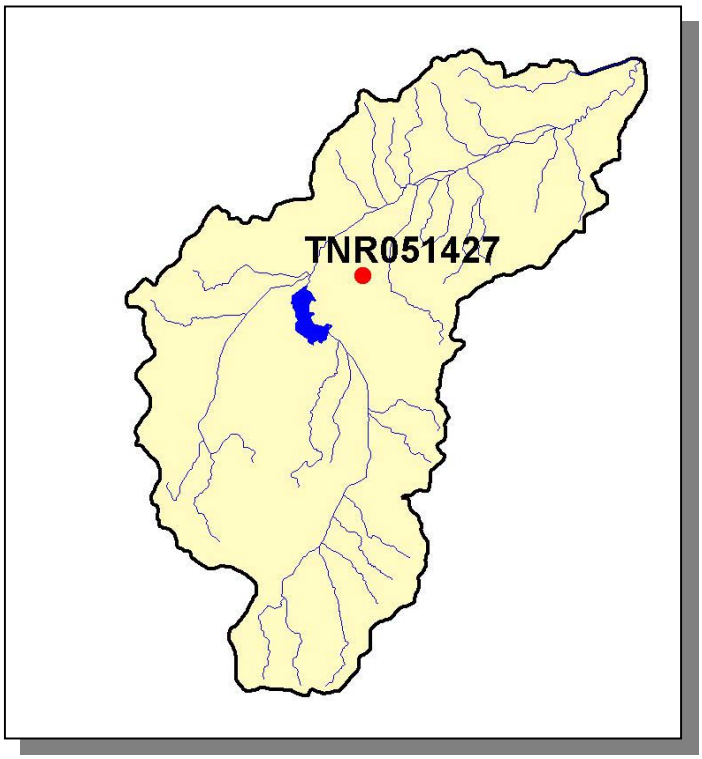


***Figure 4-86. Location of TMSP Sites in Subwatershed 080102080111.*** *More information, including the names of facilities, is provided in Appendix IV.*

4.2.A.xi.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS | | | | | |
|---|---|---|---|---|---|
| Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | |
| 604 | 1,044 | <5 | <5 | 343 | 9 |

***Table 4-69. Summary of Livestock Count Estimates in Subwatershed 080102080111.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| LIVESTOCK COUNTS | | | | | | |
|---|---|---|---|---|---|---|
| County | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| | | | | | | |
| Hardeman | 9,184 | 15,877 | 62 | 28 | 5,221 | 144 |

***Table 4-70. Summary of Livestock Count Estimates in Hardeman County.*** *According to the 1997 Census of Agriculture (http://www.nass.usda.gov/census/), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.*

| | INVENTORY | | REMOVAL RATE | |
|---|---|---|---|---|
| County | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| | | | | |
| Hardeman | 247.1 | 247.1 | 5.0 | 18.6 |

***Table 4-71. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman County.***

| CROPS | TONS/ACRE/YEAR |
|---|---|
| Grass (Pastureland) | 1.23 |
| Grass (Hayland) | 0.39 |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.06 |
| Corn (Row Crops) | 11.41 |
| Cotton (Row Crops) | 25.79 |
| Sorghum (Row Crops) | 3.04 |
| Soybeans (Row Crops) | 12.89 |
| Wheat (Close-Grown Cropland) | 15.03 |
| Other Cropland not Planted | 4.23 |
| Summer Fallow (Other Cropland) | 6.11 |
| Conservation Reserve Program Lands | 0.27 |
| Farmsteads and Ranch Headquarters | 0.97 |

***Table 4-72. Annual Estimated Total Soil Loss in Subwatershed 080102080111.***