

**APPENDIX IV**

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0101	0102	0103	0104	0105
Bare Rock/Sand/Clay	218	74	633	155	2
Deciduous Forest	10,898	11,640	10,553	20,372	8,386
Developed Open Space	858	628	478	1,204	314
Evergreen Forest	732	581	707	972	125
Grassland/Herbaceous	1,071	588	1,404	2,264	149
High Intensity Development	17			3	
Low Intensity Development	378	172	273	458	22
Medium Intensity Development	91	20	50	63	
Mixed Forest	3,006	1,743	2,799	2,494	552
Open Water	211	26	227	49	
Pasture/Hay	2,070	1,146	4,191	3,636	66
Row Crops	44	40	235	240	10
Shrub/Scrub			2	3	
Woody Wetlands	1	1		2	
<b>Total</b>	<b>19,595</b>	<b>16,660</b>	<b>21,553</b>	<b>31,916</b>	<b>9,627</b>

*Table A4-1a.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0106	0107	0108	0201	0202
Bare Rock/Sand/Clay	64	131	17	340	10
Deciduous Forest	33,787	9,834	8,199	26,999	28,797
Developed Open Space	1,509	691	705	1,860	1,653
Evergreen Forest	465	469	166	249	214
Grassland/Herbaceous	706	1,721	343	962	218
High Intensity Development		75	6	5	
Low Intensity Development	139	310	125	476	137
Medium Intensity Development	8	280	40	39	2
Mixed Forest	641	640	305	753	467
Open Water	375	46	3	30	37
Pasture/Hay	3,141	1,112	1,733	1,121	1,670
Row Crops	789	36	391	4,138	725
Shrub/Scrub	72	4	4	14	23
Woody Wetlands	75	2	3		6
<b>Total</b>	<b>41,772</b>	<b>15,352</b>	<b>12,041</b>	<b>36,984</b>	<b>33,960</b>

*Table A4-1b.*

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0203	0401	0402	0403	0404
Bare Rock/Sand/Clay	5	147		34	35
Deciduous Forest	12,055	19,910	11,268	25,608	6,935
Developed Open Space	1,229	789	93	2,677	731
Evergreen Forest	368	662	292	492	54
Grassland/Herbaceous	152	711	47	562	257
High Intensity Development		2		10	17
Low Intensity Development	555	194	11	776	391
Medium Intensity Development	24	28		129	109
Mixed Forest	516	2,554	699	741	356
Open Water	163	43		86	2,235
Pasture/Hay	6,369	997	688	8,848	3,141
Row Crops	3,258	180	104	3,654	1,130
Shrub/Scrub	83	30		101	92
Woody Wetlands	46	4		12	10
<b>Total</b>	<b>24,823</b>	<b>26,250</b>	<b>13,203</b>	<b>43,731</b>	<b>15,492</b>

**Table A4-1c.**

LAND USE/LAND COVER	AREAS IN HUC-12 SUBWATERSHEDS (ACRES)				
	0405*	0501	0502	0503	0504
Bare Rock/Sand/Clay		29		9	2
Deciduous Forest		17,748	143	10,211	4,725
Developed Open Space		718		521	465
Evergreen Forest		605	8	96	106
Grassland/Herbaceous		517		137	231
High Intensity Development		10			24
Low Intensity Development		179		209	108
Medium Intensity Development		36		19	52
Mixed Forest		259	2	74	69
Open Water		10,282	230	1,326	125
Pasture/Hay		1,696		365	983
Row Crops		337		1,932	41
Shrub/Scrub		42		27	30
Woody Wetlands		23		23	8
<b>Total</b>		<b>32,481</b>	<b>382</b>	<b>14,949</b>	<b>6,968</b>

**Table A4-1d.**

**Table A4-1a-d. Land Use Distribution in the Obey River Watershed by HUC-12.** Data are from 1992 Multi-Resolution Land Characterization (MRLC) derived by applying a generalized Anderson Level II system to mosaics of Landsat thematic mapper images collected every five years. \*, No data available.

<b>HYDROLOGIC SOIL GROUPS</b>
<b>GROUP A SOILS</b> have low runoff potential and high infiltration rates even when wet. They consist chiefly of sand and gravel and are well to excessively drained.
<b>GROUP B SOILS</b> have moderate infiltration rates when wet and consist chiefly of soils that are moderately deep to deep, moderately to well drained, and moderately coarse to coarse textures.
<b>GROUP C SOILS</b> have low infiltration rates when wet and consist chiefly of soils having a layer that impedes downward movement of water with moderately fine to fine texture.
<b>GROUP D SOILS</b> have high runoff potential, very low infiltration rates, and consist chiefly of clay soils.

*Table A4-2. Hydrologic Soil Groups in Tennessee as Described in WCS. Soils are grouped into four hydrologic soil groups that describe a soil's permeability and, therefore, its susceptibility to runoff.*

STATION	HUC 10	STREAM	DAILY FLOW			3Q2	1Q10	3Q10	7Q10	3Q20
			AVG	MAX	MIN					
3414500	0513010501	East Fork Obey River	419.5	23200.0	3.6	9.3	4.7	4.8	5.0	3.4
3415000	0513010502	West Fork Obey River	161.3	7810.0	2.6	4.3	2.9	2.9	3.1	2.7
3416000	0513010504	Wolf River	188.3	13400.0	2.1	8.3	4.0	4.4	5.2	3.6

*Table A4-3. Stream Flow Data from USGS Gaging Stations in the Obey River Watershed. Data are in cubic feet per second (CFS). Data were obtained from the USGS web application StreamStats at <http://water.usgs.gov/osw/streamstats>. (na, data not available)*

AGENCY	STATION	LOCATION	HUC-12
TDECWPC	MEADO011.9CU	Meadow Creek @ RM 11.9	051301050101
TDECWPC	CHARL000.7OV	Charlie Branch @ RM 0.7	051301050102
TDECWPC	EFOBE039.0OV	East Fork Obey River @ RM 39.0	051301050102
TDECWPC	EFOBE039.6OV	East Fork Obey River @ RM 39.6	051301050102
TDECWPC	HURRI003.1FE	Hurricane Creek @ RM 3.1	051301050102
TDECWPC	LHURR001.2OV	Little Hurricane @ RM 1.2	051301050103
TDECWPC	LOOPE001.0OV	Looper Branch @ RM 1.0	051301050103
TDECWPC	EFOBE025.8FE	East Fork Obey River @ RM 25.8	051301050104
TDECWPC	LCOVE1T1.0FE	UT to Lints Cove @ RM 1.0	051301050104
TDECWPC	LLAUR000.4FE	Little Laurel Creek @ RM 0.4	051301050104
TDECWPC	BINDI000.6FE	Big Indian Creek @ RM 0.6	051301050106
TDECWPC	EFOBE012.6FE	East Fork Obey River @ RM 12.6	051301050106
TDECWPC	LCRAB001.9FE	Little Crab Creek @ RM 1.9	051301050106
TDECWPC	ROCKC004.7FE	Rockcastle Creek @ RM 4.7	051301050107
TDECWPC	ROCKC04.75FE	Rockcastle Creek @ RM 4.75	051301050107
TDECWPC	POPLA001.3FE	Poplar Cove Creek @ RM 1.3	051301050108
TDECWPC	CUB000.7OV	Cub Creek @ RM 0.7	051301050202
TDECWPC	PCAMP000.7OV	Puncheon Camp Creek @ RM 0.7	051301050202
TDECWPC	WFOBE009.5OV	West Fk Obey River @ RM 9.5	051301050202
TDECWPC	WFOBE014.6OV	West Fork Obey @ RM 14.6	051301050202
TDECWPC	COWAN000.1OV	Cowan Branch @ RM 0.1	051301050203
TDECWPC	NETTL002.5OV	Nettlecarrier Creek @ RM 2.5	051301050203
TDECWPC	WFOBE008.0OV	West Fork Obey @ RM 8.0	051301050203
TDECWPC	BEAGL006.1OV	Big Eagle Creek @ RM 6.1	051301050302
TDECWPC	BIG000.1OV	Big Branch @ RM 0.1	051301050302
TDECWPC	DELK000.3FE	Delk Creek @ RM 0.3	051301050401
TDECWPC	WOLF040.7FE	Wolf River @ RM 40.7	051301050401
TDECWPC	RFWOL000.2FE	Rotten Fork Wolf River @ RM 0.2	051301050402
TDECWPC	CANEY000.8FE	Caney Creek @ RM 0.8	051301050403
TDECWPC	LICK001.1PI	Lick Creek @ RM 1.1	051301050403
TDECWPC	TOWN000.1PI	Town Branch @ RM 0.1	051301050403
TDECWPC	WOLF022.2PI	Wolf River @ RM 22.2	051301050403
TDECWPC	OBEY000.1CY	Obey River @ RM 0.1	051301050501

**Table A4-4. STORET Water Quality Monitoring Stations in the Obey River Watershed.**  
TDECWPC, Tennessee Department of Environment and Conservation Division of Water Pollution Control; UT, Unnamed Tributary.

FACILITY NUMBER	FACILITY NAME	SIC	SIC NAME	MADI	WATERBODY	HUC-12
TN0062634	Jamestown STP	4952	Sewerage System	Major	Rockcastle Creek @ RM 4.75	051301050107
TN0021377	Obey River Rec Area "A"	4952	Sewerage System	Major	Obey River @ RM 45.9 and @ RM 45.5	051301050301
TN0021393	USACOE Dale Hollow Lake	4952	Sewerage System	Major	Obey River @ RM 31.4	051301050303
TN0026085	Star Point Resort	4952	Sewerage System	Major	Jouette Creek Embayment @ RM 1.4	051301050303
TN0062626	Byrdstown STP	4952	Sewerage System	Major	UT @ RM 0.4 to Town Creek @ RM 0.1	051301050403
TN0058033	Cedar Hill Resort	4952	Sewerage System	Major	Obey River @ RM 10.3	051301050501
TN0021423	USACOE Dale Hollow Dam Shop	4952	Sewerage System	Major	Obey River @ RM 7.0 and @ RM 6.6	051301050504
TN0004332	USFWS Dale Hollow National Fish Hatchery	0921	Fish Hatcheries and Preserves	Major	Dry Branch @ RM 0.1	051301050504
TN0068098	Dale Hollow Hydro Power Plant	4911	Electric Services	Major	Obey River @ RM 7.3	051301050504

**Table A4-5. NPDES Permittees in the Obey River Watershed.** SIC, Standard Industrial Classification; MADI, Major Discharge Indicator; UT, Unnamed Tributary.

FACILITY NUMBER	PERMITEE	COUNTY	LIVESTOCK	WATERBODY	HUC-12
TNA000008	Jams Threet	Fentress	Poultry	Poplar Cove Creek	051301050107
TNA000064	Franklin Jim Bledsoe	Fentress	Poultry	Poplar Cove Creek	051301050108
TNA000016	Rich's Poultry	Pickett	Poultry	Lick Creek	051301050401
TNA000015	Koger Mountain Poultry	Pickett	Poultry	Lick Creek	051301050403
TNA000029	Mountain View Farm	Pickett	Poultry	Dale Hollow Lake	051301050403
TNA000111	Tim West Family Farms	Pickett	Poultry	Begley Branch	051301050403
TNA000112	West Farms	Pickett	Poultry	Begley Branch	051301050403
TNA000121	Daniels Poultry Farm	Clay	Poultry	Poor Branch	051301050501

**Table A4-6. CAFO Sites in the Tennessee Portion of the Obey River Watershed.**

<b>FACILITY NUMBER</b>	<b>PERMITEE</b>	<b>SIC</b>	<b>SIC NAME</b>	<b>WATERBODY</b>	<b>HUC-12</b>
TN072362	Sand Products, LLC (Mineral Springs Mine)	1442	Construction Sand and Gravel	Mineral Springs Branch	051301050101
TN071188	Tennessee Mining, Inc. (Cumberland Mine #1)	1221	Bituminous Coal Underground Mining	Lints Cove	051301050104
TN071897	Hood Coal Corporation (Tar Gap Mine)	1221	Bituminous Coal Underground Mining	UT to East Fork Obey River	051301050106
TN053007	Tennessee Mining, Inc. (Grimsley Tipple)	1221	Bituminous Coal Underground Mining	Fern camp Creek	051301050107
TN071498	Tennessee Mining, Inc. (Cumberland Mine #2)	1221	Bituminous Coal Underground Mining	Fern Camp Creek	051301050107
TN063487	Livingston Limestone Co. (Monterey Limestone)	1422	Crushed and Broken Limestone	UT to Sinking Cane Hollow	051301050201
TN063444	Livingston Limestone Co. (Quarry/Processing Facility)	1422	Crushed and Broken Limestone	Big Eagle Creek	051301050302
TN063525	Frogge and Williams Stone (Wright Quarry)	1422	Crushed and Broken Limestone	UT to Wolf River	051301050401
TN072401	Fentress Co. Highway Dept. (County Hwy Dept. Quarry)	1422	Crushed and Broken Limestone	Dry Branch	051301050401
TN076333	LoJac Enterprises (Monterey Sand)	1442	Construction Sand and Gravel Mining	Garrison Branch, UT to Garrison Branch	050113010501
TN063479	Rogers Group, Incorporated (Celina Quarry)	1422	Crushed and Broken Limestone	Obey River	051301050504

**Table A4-7. Active Permitted Mining Sites in the Obey River Watershed.** SIC, Standard Industrial Classification; UT, Unnamed Tributary.

<b>FACILITY NUMBER</b>	<b>FACILITY NAME</b>	<b>SECTOR</b>	<b>RECEIVING STREAM</b>	<b>AREA*</b>	<b>HUC-12</b>
TNR051151	Mullins Lumber Company	P	Dale Hollow Lake	15	051301050301
TNR054580	Royal Oak Enterprises, Inc.	C, A	Meadow Creek	51.57	051301050101
TNR055945	Perdue Farms	U	Monterey City Lake	10.617	051301050201
TNR056438	Pickett County Sanitary Landfill	L	UT to Town Branch	10.77	051301050301
TNR051275	Allons sawmills, Incorporated	A	Little eagle Creek	23.75	051301050302
TNR054233	Cooper Recycling, LLC	N	Big Eagle Creek	3.88	051301050302
TNR054030	Doubletop Storage Area	N, P	Chapman Branch	5.6	051301050403
TNR055915	Ronnie Smith	J	Day Creek	2	051301050403
TNR053267	APAC-Celina Plant	D	Obey River	3	051301050504

**Table A4-8. Active Permitted TMSF Facilities in the Obey River Watershed.** Area, acres of property associated with industrial activity; UT, Unnamed Tributary. Sector details may be found in Table A4-11.

<b>SECTOR</b>	<b>TMSP SECTOR NAME</b>
A	Timber Products Facilities
AA	Facilities That Manufacture Metal Products including Jewelry, Silverware and Plated Ware
AB	Facilities That Manufacture Transportation Equipment, Industrial or Commercial Machinery
AC	Facilities That Manufacture Electronic and Electrical Equipment and Components, Photographic and Optical Goods
AD	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Required)
AE	Facilities That Are Not Covered Under Sectors A Thru AC (Monitoring Not Required)
B	Paper and Allied Products Manufacturing Facilities
C	Chemical and Allied Products Manufacturing Facilities
D	Asphalt Paving, Roofing Materials, and Lubricant Manufacturing Facilities
E	Glass, Clay, Cement, Concrete, and Gypsum Product Manufacturing Facilities
F	Primary Metals Facilities
G	Metal Mines (Ore Mining and Dressing) (RESERVED)
H	Inactive Coal Mines and Inactive Coal Mining-Related Facilities
I	Oil or Gas Extraction Facilities
J	Construction Sand and Gravel Mining and Processing and Dimension Stone Mining and Quarrying Facilities
K	Hazardous Waste Treatment Storage or Disposal Facilities
L	Landfills and Land Application Sites
M	Automobile Salvage Yards
N	Scrap Recycling and Waste and Recycling Facilities
O	Steam Electric Power Generating Facilities
P	Vehicle Maintenance or Equipment Cleaning areas at Motor Freight Transportation Facilities, Passenger Transportation Facilities, Petroleum Bulk Oil Stations and Terminals, the United States Postal Service, or Railroad Transportation Facilities
Q	Vehicle Maintenance Areas and Equipment Cleaning Areas of Water Transportation Facilities
R	Ship or Boat Building and Repair Yards
S	Vehicle Maintenance Areas, Equipment Cleaning Areas or From Airport Deicing Operations located at Air Transportation Facilities
T	Wastewater Treatment Works
U	Food and Kindred Products Facilities
V	Textile Mills, Apparel and other Fabric Product Manufacturing Facilities
W	Furniture and Fixture Manufacturing Facilities
X	Printing and Platemaking Facilities
Y	Rubber and Miscellaneous Plastic Product Manufacturing Facilities
Z	Leather Tanning and Finishing Facilities

**Table A4-9. TMSP Sectors and Descriptions.**