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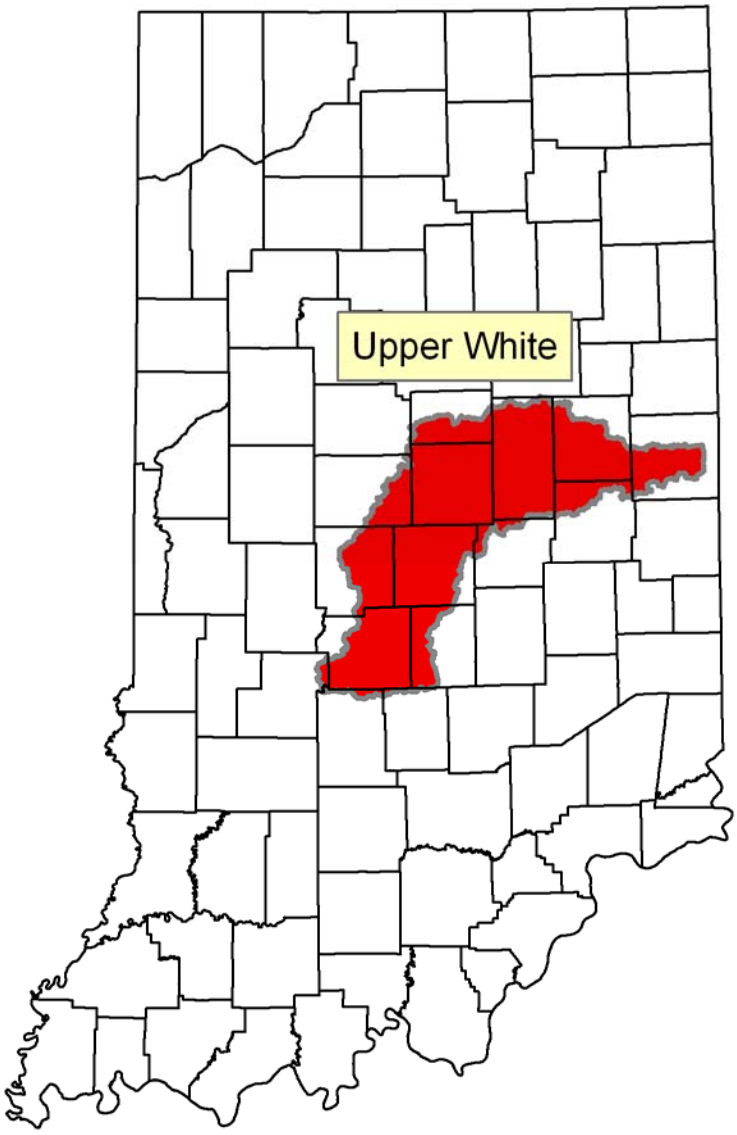
Rapid Watershed Assessment
Upper White Watershed

Rapid Watershed Assessments provide initial estimates of where conservation investments would best address the concerns of land owners, conservation districts, and community organizations and stakeholders. These assessments help land owners and local leaders set priorities and determine the best actions to achieve their goals.



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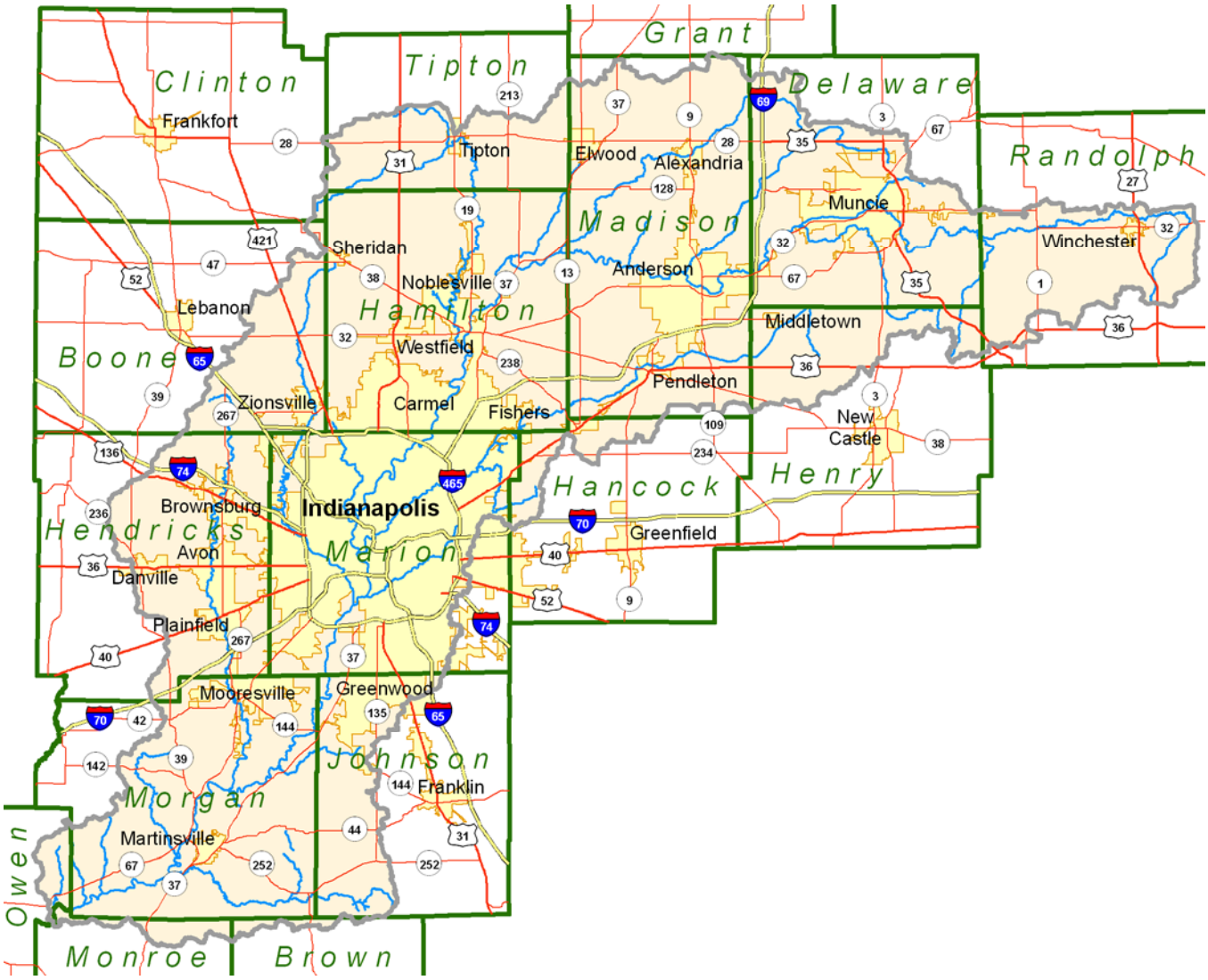
Upper White Watershed



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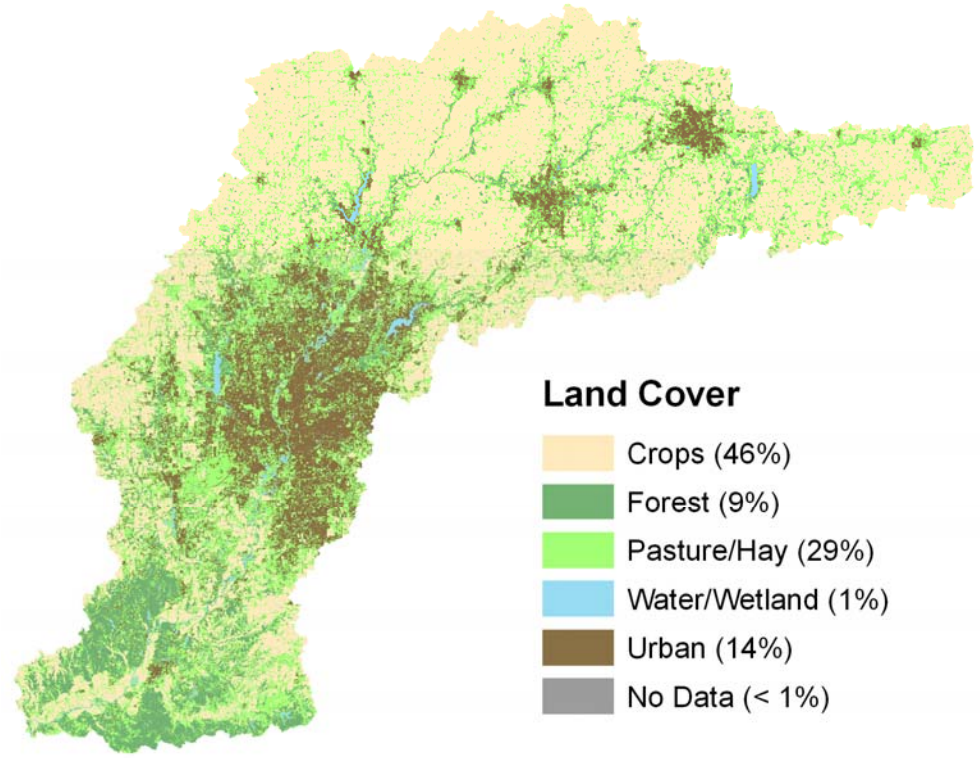
Introduction

The Upper White watershed is an eight digit (05120201) hydrologic unit code HUC) watershed located in the center part of Indiana. The watershed drainage area is just over 1,761,300 acres. The watershed covers sixteen different Indiana counties. It is subdivided into 114 subbasins represented on the map by 12 digit HUCs (Figure 2-1).

The White River begins flow south of Harrisville in Eastern Randolph County. The river flows west, turning south in Hamilton County. The river continues south until it enters the east side of Owen County where it becomes the Lower White Watershed. The landscape changes from steeply rolling uplands to gently rolling lowlands and flat flood plains.



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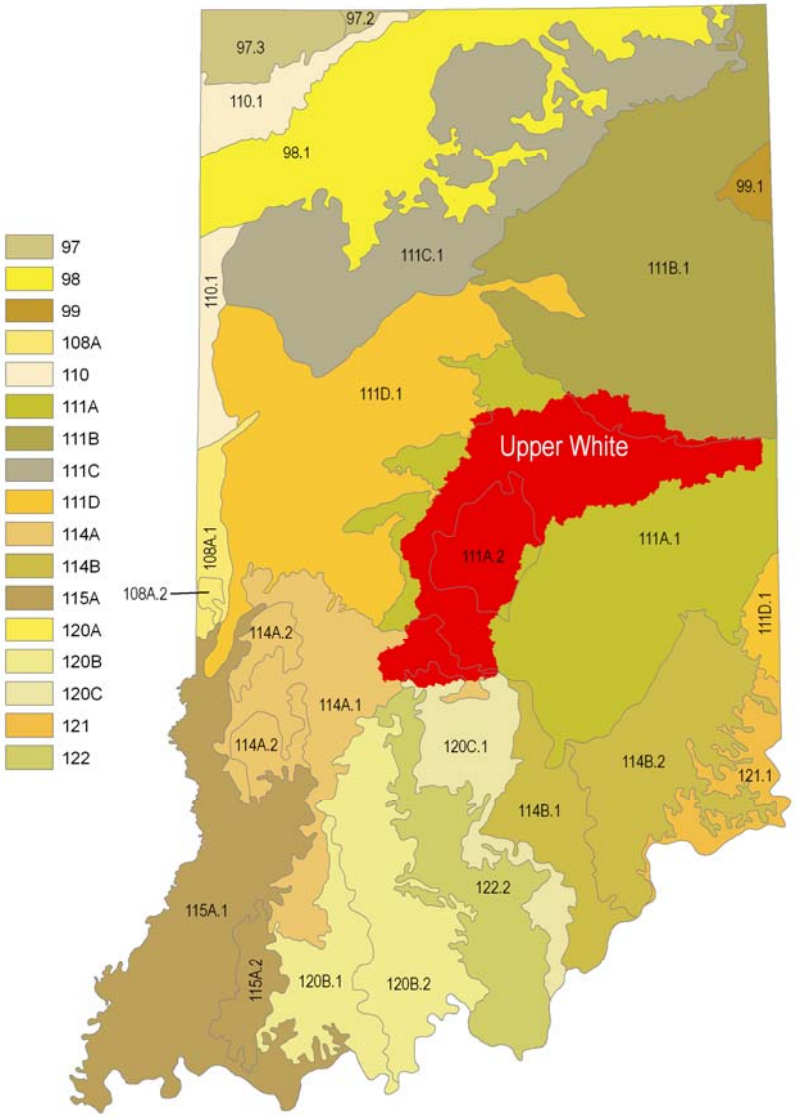
Common Resource Area

There are three dominate common resource areas in the watershed:

The Indiana and Ohio Till Plain, Central Part (111A.1). The landscape changes from level to rolling glacial till plain broken by hilly end moraines, kames, and outwash terraces with moderate relief. Residential, commercial, and industrial development dominates near Indianapolis. The urban centers in and around Indianapolis has been identified as resource area 111A.2. Corn, soybean, and livestock farming with scattered woodlands in areas not affected by urban development dominate the landscape. Soils dominantly are will drained to very poorly drained, formed in Wisconsin Age glacial drift derived mostly from limestone and dolomite.



The Illinois, Indiana, and Ohio Thin Loess and Till Plain, Easter Part (114A.1). A pre-Wisconsin till plain with a moderately thick mantle of loess in most places. Corn, soybeans, livestock, and general farming are the main uses with some woodland and tobacco farms. Soils are poorly drained to well drained, formed in Illinoian Age till and overlain in many areas with a layer of loess.

The third and smallest resource area, located in the extreme southern part of the watershed, is the Interior Plateau of Kentucky and Indiana Sandstone and Shale Hills and Valleys, Northeaster Part (120C.1). Dissected, high hills, knobs, narrow valleys, and medium to high gradient streams. Oak-Hickory forests are on the uplands and beech forests were found in the valleys. Chestnut oak has replaced American chestnut on the well-drained upland slopes. Virginia pine grows on the southern uplands. Soils are well drained to very poorly drained. Silty to clayey soils formed in loess and in siltstone, sandstone and shale residuum.

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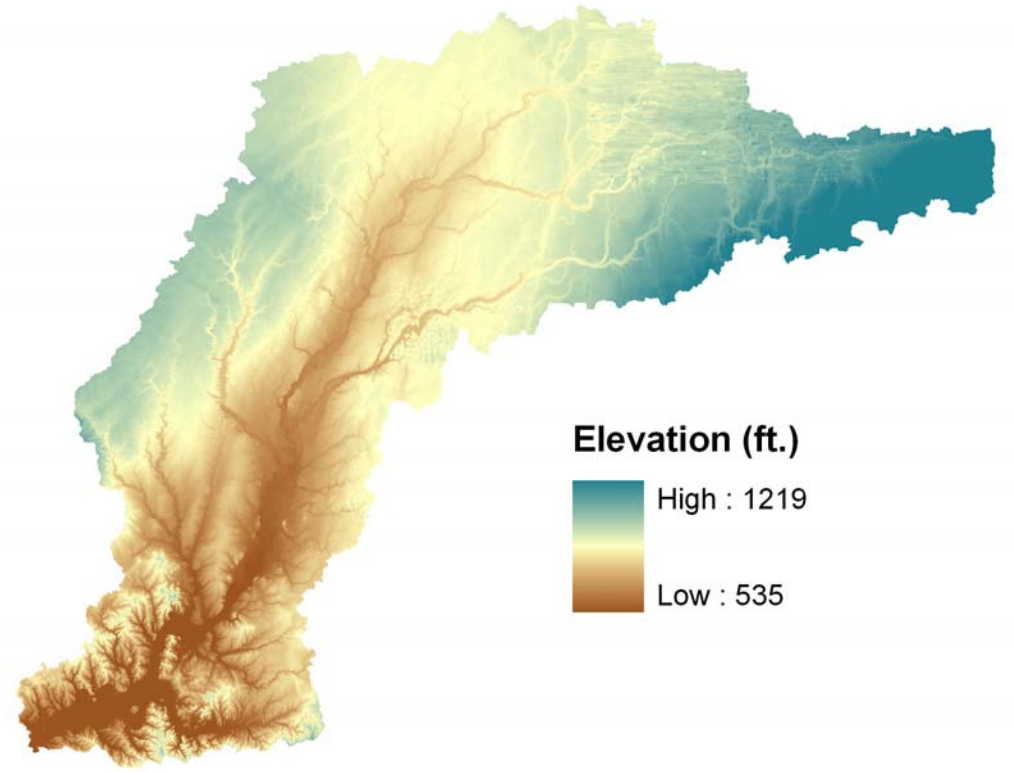
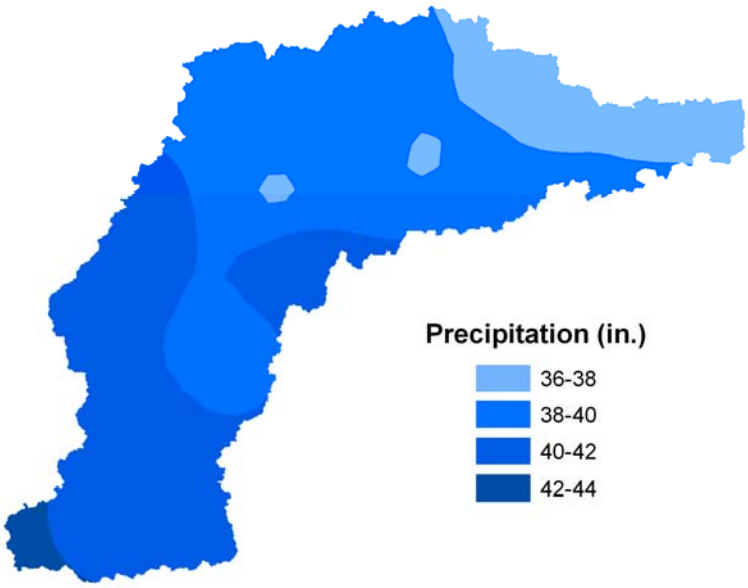
Physical Description

The Upper White River watershed is located in the central part of Indiana. The watershed encompasses approximately 2752 square miles in sixteen different counties and approximately 913 miles of perennial streams. It is subdivided into 114 subbasins represented on the map by 12 digit HUCs. The watershed is dominated by row crop and livestock agriculture. The city of Indianapolis is located within this watershed.





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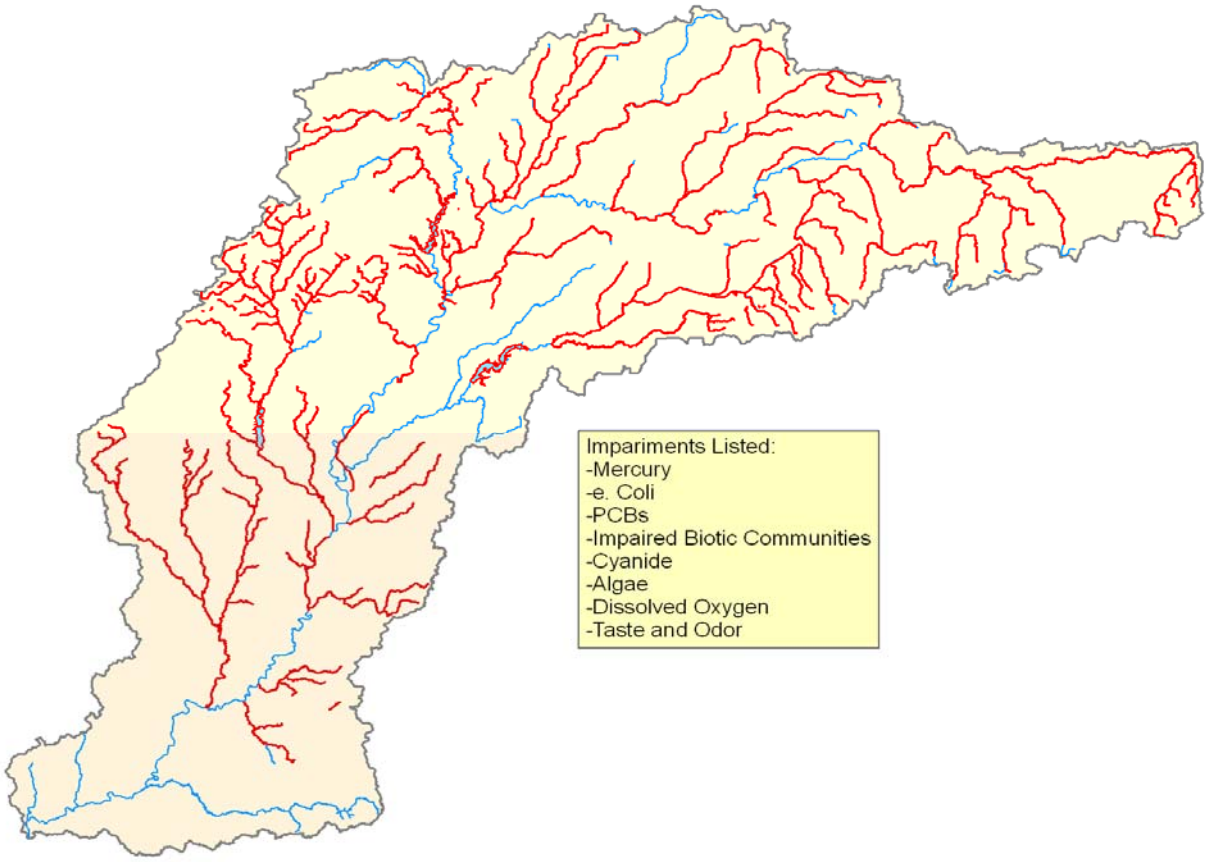
Assessment of waters



Section 303(d) of the Clean Water Act requires states to identify waters that do not meet, or are not expected to meet, applicable water quality standards. The Clean Water Act Section 303(d) list for Indiana provides a basis for understanding the current status of water quality in the Upper White Watershed.

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW0111_T1001	WHITE RIVER	FCA for MERCURY
INW0111_T1001	WHITE RIVER	E. COLI
INW0111_T1001	WHITE RIVER	FCA for PCBs
INW0111_T1221	OWL CREEK AND TRIBUTARY	E. COLI
INW0111_T1222	WHITE RIVER HEADWATER TRIBUTARIES	E. COLI
INW0112_T1002	WHITE RIVER	FCA for MERCURY
INW0112_T1002	WHITE RIVER	E. COLI
INW0112_T1002	WHITE RIVER	FCA for PCBs
INW0112_T1002	WHITE RIVER	IMPAIRED BIOTIC COMMUNITIES
INW0113_T1003	WHITE RIVER	FCA for MERCURY
INW0113_T1003	WHITE RIVER	E. COLI

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW0113_T1003	WHITE RIVER	FCA for PCBs
INW0114_T1004	WHITE RIVER	FCA for MERCURY
INW0114_T1004	WHITE RIVER	E. COLI
INW0114_T1004	WHITE RIVER	FCA for PCBs
INW0115_T1005	WHITE RIVER	FCA for MERCURY
INW0115_T1005	WHITE RIVER	E. COLI
INW0115_T1005	WHITE RIVER	FCA for PCBs
INW0116_00	CABIN CREEK-LAMB CREEK	E. COLI
INW0117_00	STONEY CREEK-LITTLE STONEY CREEK	E. COLI
INW0118_00	LITTLE WHITE RIVER	E. COLI
INW0119_00	STONEY CREEK AND OTHER TRIBUTARIES	E. COLI
INW0119_T1006	WHITE RIVER	E. COLI
INW0119_T1006	WHITE RIVER	FCA for MERCURY
INW0119_T1006	WHITE RIVER	FCA for PCBs
INW011A_00	MUD CREEK AND OTHER TRIBUTARIES	E. COLI
INW011A_T1007	WHITE RIVER	E. COLI
INW011A_T1007	WHITE RIVER	FCA for MERCURY
INW011A_T1007	WHITE RIVER	FCA for PCBs
INW011C_T1008	WHITE RIVER	E. COLI
INW011C_T1008	WHITE RIVER	FCA for MERCURY
INW011C_T1008	WHITE RIVER	FCA for PCBs
INW011D_00	MUNCIE CREEK - OTHER TRIBUTARIES	E. COLI
INW011D_T1009	WHITE RIVER	FCA for MERCURY
INW011D_T1009	WHITE RIVER	FCA for PCBs
INW011D_T1009	WHITE RIVER	IMPAIRED BIOTIC COMMUNITIES
INW0121_00	BUCK CREEK-LITTLE BUCK CREEK	E. COLI
INW0122_T1011	Buck Creek	FCA for MERCURY
INW0122_T1011	BUCK CREEK	E. COLI
INW0122_T1011	Buck Creek	FCA for PCBs
INW0122_T1011	BUCK CREEK	IMPAIRED BIOTIC COMMUNITIES
INW0123_00	BELL CREEK-BETHEL BROOK	E. COLI
INW0124_00	BELL CREEK-WILLIAMS DITCH	E. COLI
INW0125_00	BELL CREEK-NO NAME CREEK	E. COLI
INW0126_T1010	WHITE RIVER	FCA for MERCURY
INW0126_T1010	WHITE RIVER	FCA for PCBs
INW0126_T1012	BUCK CREEK	FCA for MERCURY
INW0126_T1012	BUCK CREEK	E. COLI
INW0126_T1012	BUCK CREEK	FCA for PCBs
INW0131_00	YORK PRAIRIE CREEK AND OTHER TRIBUTARIES	E. COLI
INW0131_T1013	WHITE RIVER	FCA for MERCURY
INW0131_T1013	WHITE RIVER	FCA for PCBs
INW0132_00	SHOEMAKER DITCH AND OTHER TRIBUTARIES	E. COLI
INW0132_T1014	WHITE RIVER	FCA for MERCURY
INW0132_T1014	WHITE RIVER	FCA for PCBs
INW0133_T1015	White River - Chesterfield to Anderson	FCA for PCBs
INW0133_T1015	WHITE RIVER - CHESTERFIELD TO ANDERSON	IMPAIRED BIOTIC COMMUNITIES
INW0141_00	KILLBUCK CREEK	E. COLI
INW0142_00	KILLBUCK CREEK-THRUSTON DITCH	E. COLI
INW0143_00	JAKES CREEK-EAGLE BRANCH	E. COLI
INW0144_00	KILLBUCK CREEK-PLEASANT RUN CREEK	E. COLI

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW0145_00	KILLBUCK CREEK	E. COLI
INW0145_T1016	KILLBUCK CREEK	E. COLI
INW0145_T1016	KILLBUCK CREEK	FCA for MERCURY
INW0145_T1016	KILLBUCK CREEK	FCA for PCBs
INW0146_00	LITTLE KILLBUCK CREEK-NELSON BROOK	E. COLI
INW0147_T1017	KILLBUCK CREEK - TO MOUTH	E. COLI
INW0147_T1017	Killbuck Creek - to mouth	FCA for MERCURY
INW0147_T1017	Killbuck Creek - to mouth	FCA for PCBs
INW0148_T1018	White River - Anderson to Indian Cr	FCA for PCBs
INW0148_T1018	WHITE RIVER	IMPAIRED BIOTIC COMMUNITIES
INW0149_00	INDIAN CREEK (MADISON)	E. COLI
INW014A_T1019	WHITE RIVER-PERKINSVILLE	CYANIDE
INW014A_T1019	WHITE RIVER-PERKINSVILLE	FCA for MERCURY
INW014A_T1019	WHITE RIVER-PERKINSVILLE	FCA for PCBs
INW0151_00	PIPE CREEK-YEAGER FINLEY MENARD DITCH	E. COLI
INW0152_00	PIPE CREEK	E. COLI
INW0152_T1020	PIPE CREEK	E. COLI
INW0152_T1020	PIPE CREEK	FCA for MERCURY
INW0152_T1020	PIPE CREEK	FCA for PCBs
INW0153_T1021	PIPE CREEK	E. COLI
INW0153_T1021	PIPE CREEK	FCA for MERCURY
INW0153_T1021	PIPE CREEK	FCA for PCBs
INW0154_T1022	PIPE CREEK	E. COLI
INW0154_T1022	PIPE CREEK	FCA for MERCURY
INW0154_T1022	PIPE CREEK	FCA for PCBs
INW0156_T1023	PIPE CREEK	E. COLI
INW0156_T1023	PIPE CREEK	FCA for MERCURY
INW0156_T1023	PIPE CREEK	FCA for PCBs
INW0157_T1024	PIPE CREEK	E. COLI
INW0157_T1024	PIPE CREEK	FCA for MERCURY
INW0157_T1024	PIPE CREEK	FCA for PCBs
INW0158_T1025	PIPE CREEK	E. COLI
INW0158_T1025	PIPE CREEK	FCA for MERCURY
INW0158_T1025	PIPE CREEK	FCA for PCBs
INW0159_00	PIPE CREEK - Hamilton County	E. COLI
INW0159_T1026	PIPE CREEK - Swanfelt Dt to county line	E. COLI
INW0159_T1026	PIPE CREEK - Swanfelt Dt to county line	FCA for MERCURY
INW0159_T1026	PIPE CREEK - Swanfelt Dt to county line	FCA for PCBs
INW0161_00	DUCK CREEK-TODD DITCH	E. COLI
INW0162_00	LITTLE DUCK CREEK BASIN	E. COLI
INW0162_T1028	DUCK CREEK - Elwood to Ltl Duck Cr	E. COLI
INW0162_T1228	BIG DUCK CREEK	E. COLI
INW0163_00	POLYWOG CREEK	E. COLI
INW0163_T1029	DUCK CREEK - Ltl Duck Cr to Polywog Cr	E. COLI
INW0164_00	LAMBERSON DITCH	E. COLI
INW0164_00	LAMBERSON DITCH	IMPAIRED BIOTIC COMMUNITIES
INW0164_T1030	DUCK CREEK	E. COLI
INW0165_00	BEAR CREEK-WEST FORK BEAR CREEK	E. COLI
INW0166_00	DUCK CREEK	E. COLI
INW0166_T1031	DUCK CREEK	E. COLI
INW0166_T1227	LONG BRANCH	E. COLI
INW0171_T1027	WHITE RIVER - Pipe Cr to Duck Cr	FCA for MERCURY

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW0171_T1027	WHITE RIVER - Pipe Cr to Duck Cr	FCA for PCBs
INW0172_00	SUGAR RUN AND OTHER TRIBUTARYS	E. COLI
INW0172_T1032	WHITE RIVER - Duck Cr to Riverwood	FCA for MERCURY
INW0172_T1032	WHITE RIVER - Duck Cr to Riverwood	FCA for PCBs
INW0172_T1032	WHITE RIVER - DUCK CR TO RIVERWOOD	IMPAIRED BIOTIC COMMUNITIES
INW0173_00	MALLORY GRANGER DITCH/ INGERMAN DITCH BASINS	E. COLI
INW0173_T1033	WHITE RIVER - Riverwood to Cicero Cr	FCA for MERCURY
INW0173_T1033	WHITE RIVER - Riverwood to Cicero Cr	FCA for PCBs
INW0173_T1033	WHITE RIVER	IMPAIRED BIOTIC COMMUNITIES
INW0174_00	STONY CREEK-HEADWATERS	E. COLI
INW0175_00	STONY CREEK - WILLIAM LOCK DITCH TRIBUTARYS	E. COLI
INW0175_T1039	STONY CREEK	E. COLI
INW0175_T1039	STONEY CREEK	FCA for PCBs
INW0176_00	WILLIAM LEHR DITCH AND OTHER TRIBUTARYS	E. COLI
INW0176_T1040	STONY CREEK	E. COLI
INW0176_T1040	STONEY CREEK	FCA for PCBs
INW0177_00	NORTH TRIB (NOBLESVILLE)	E. COLI
INW0177_T1041	STONY CREEK	E. COLI
INW0177_T1041	STONEY CREEK	FCA for PCBs
INW0177_T1041	STONY CREEK	IMPAIRED BIOTIC COMMUNITIES
INW0181_00	COX DITCH-CHRISTY/KIGIN DITCHES	ALGAE
INW0181_00	COX DITCH-CHRISTY/KIGIN DITCHES	IMPAIRED BIOTIC COMMUNITIES
INW0181_00	COX DITCH-CHRISTY/KIGIN DITCHES	NUTRIENTS
INW0184_00	CICERO CREEK-CAMPBELL DITCH	E. COLI
INW0185_00	CICERO CREEK-TOBIN DITCH	E. COLI
INW0186_00	CICERO CREEK-BACON PRAIRIE CR/BUSCHER DT	E. COLI
INW0189_00	BENNETT DT/TAYLOR CREEK AND OTHER TRIBUTARIES	E. COLI
INW0189_T1035	LITTLE CICERO CREEK	E. COLI
INW018C_00	SLY RUN AND TRIBS	E. COLI
INW0191_00	SHOEMAKER DITCH (HAMILTON) AND OTHER TRIBUTARIES	E. COLI
INW0191_M1038	WHITE RIVER	FCA for MERCURY
INW0191_M1038	WHITE RIVER	FCA for PCBs
INW0192_M1052	WHITE RIVER	FCA for MERCURY
INW0192_M1052	WHITE RIVER	FCA for PCBs
INW0193_00	COOL CREEK BASIN	E. COLI
INW0194_M1053	WHITE RIVER	FCA for MERCURY
INW0194_M1053	WHITE RIVER	E. COLI
INW0194_M1053	WHITE RIVER	FCA for PCBs
INW0195_M1054	WHITE RIVER-HAVERSTICK CREEK/HOWLAND DITCH TRIBUTARYS	FCA for MERCURY
INW0195_M1054	WHITE RIVER-HAVERSTICK CREEK/HOWLAND DITCH TRIBUTARYS	FCA for PCBs
INW0198_M1055	WHITE RIVER	FCA for MERCURY
INW0198_M1055	WHITE RIVER	FCA for PCBs
INW0198_M1118	WHITE RIVER	FCA for MERCURY
INW0198_M1118	WHITE RIVER	FCA for PCBs
INW0198_T1056	BROADRIPPLE TRIBUTARIES	E. COLI
INW01A1_00	FALL CREEK-HONEY CREEK	E. COLI
INW01A2_00	FALL CREEK-SUGAR CREEK/DEER CREEK	E. COLI

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW01A3_00	FALL CREEK-MUD CREEK/LITTLE CREEK TRIBUTARIES	E. COLI
INW01A3_T1042	FALL CREEK	E. COLI
INW01A3_T1042	FALL CREEK	FCA for MERCURY
INW01A3_T1042	FALL CREEK	FCA for PCBs
INW01A4_00	SLY FORK-BRANDON DITCH	E. COLI
INW01A5_T1043	FALL CREEK	E. COLI
INW01A5_T1043	FALL CREEK-SUGAR FORK	FCA for MERCURY
INW01A5_T1043	FALL CREEK-SUGAR FORK	FCA for PCBs
INW01A6_T1044	FALL CREEK	E. COLI
INW01A6_T1044	FALL CREEK	FCA for MERCURY
INW01A6_T1044	FALL CREEK	FCA for PCBs
INW01A7_00	PRAIRIE CREEK (MADISON)	E. COLI
INW01A8_00	FOSTER BRANCH	E. COLI
INW01A9_T1045	FALL CREEK-PENDLETON TO LICK CREEK	E. COLI
INW01A9_T1045	FALL CREEK-PENDLETON TO LICK CREEK	FCA for MERCURY
INW01A9_T1045	FALL CREEK-PENDLETON TO LICK CREEK	FCA for PCBs
INW01AA_00	LICK CREEK HEADWATERS (MARKLEVILLE)	E. COLI
INW01AB_00	LICK CREEK-MANIFOLD/MCFADDEN DITCHES	E. COLI
INW01AC_T1046	FALL CREEK	FCA for MERCURY
INW01AC_T1046	FALL CREEK	FCA for PCBs
INW01AF_T1047	FALL CREEK	FCA for MERCURY
INW01AF_T1047	FALL CREEK	FCA for PCBs
INW01B2_T1049	FALL CREEK	FCA for MERCURY
INW01B2_T1049	FALL CREEK	FCA for PCBs
INW01B5_T1050	FALL CREEK-DEVON CREEK	FCA for MERCURY
INW01B5_T1050	FALL CREEK-DEVON CREEK	FCA for PCBs
INW01B6_T1057	MINNIE CREEK TRIBUTARIES	E. COLI
INW01C1_00	DIXON BRANCH AND OTHER TRIBUTARIES	E. COLI
INW01C1_T1064	EAGLE CREEK	E. COLI
INW01C2_00	KREAGER DITCH AND OTHER TRIBUTARIES	E. COLI
INW01C2_T1065	EAGLE CREEK	E. COLI
INW01C2_T1065	EAGLE CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01C3_00	FINLEY CREEK AND OTHER	E. COLI
INW01C3_T1066	EAGLE CREEK	E. COLI
INW01C4_00	MOUNTS RUN-NEESE DITCH	E. COLI
INW01C5_00	JACKSON RUN AND OTHER TRIBUTARIES	E. COLI
INW01C5_T1067	EAGLE CREEK	E. COLI
INW01C6_00	LITTLE EAGLE BRANCH-HEADWATERS	E. COLI
INW01C7_00	LITTLE EAGLE BRANCH-WOODRUFF BRANCH	E. COLI
INW01C8_T1068	EAGLE CREEK	E. COLI
INW01C9_00	FISHBACK CREEK (EAGLE CREEK RESERVOIR)	E. COLI
INW01CA_00	SCHOOL BRANCH	E. COLI
INW01CB_T1071	EAGLE CREEK-DAM TO LITTLE EAGLE CREEK	E. COLI
INW01CC_00	LITTLE EAGLE CREEK-GUION CREEK	E. COLI
INW01CC_00	LITTLE EAGLE CREEK-GUION CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01CD_00	LITTLE EAGLE CREEK-FALCON CREEK/DRY RUN	E. COLI
INW01CE_T1072	EAGLE CREEK-NEELD DITCH/BLUE LAKE	E. COLI
INW01D1_T1061	POGUES RUN	E. COLI
INW01D1_T1061	POGUES RUN	IMPAIRED BIOTIC COMMUNITIES
INW01D2_M1059	WHITE RIVER	FCA for MERCURY

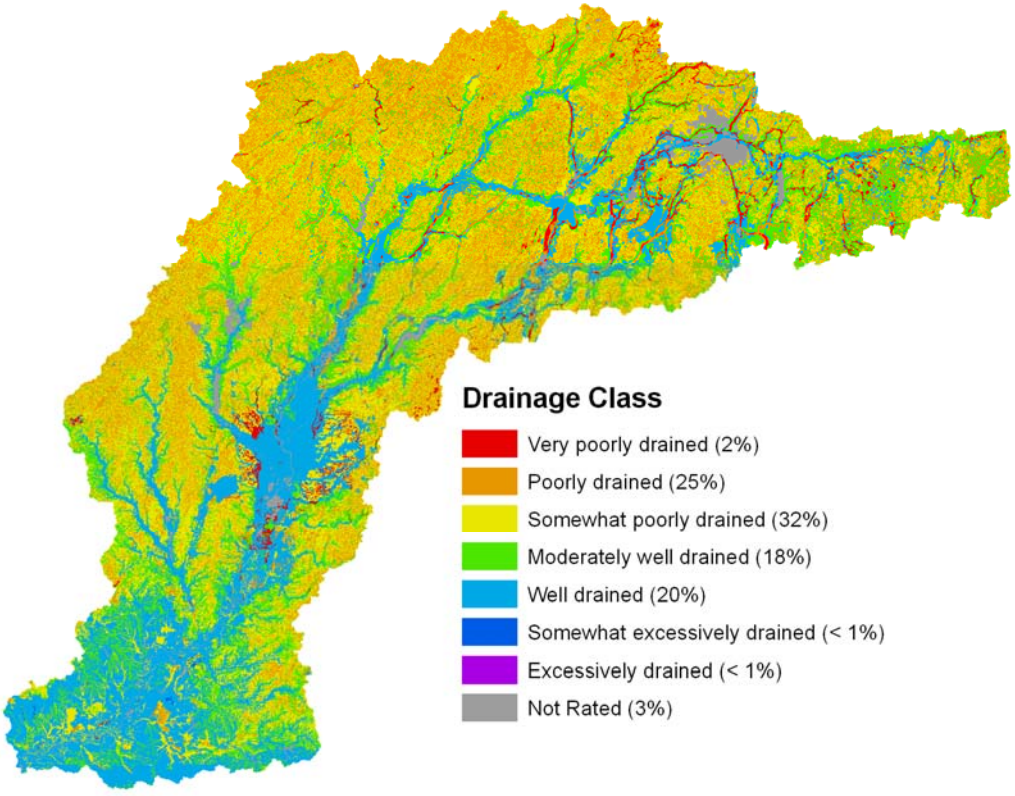
WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW01D2_M1059	WHITE RIVER	FCA for PCBs
INW01D2_T1058	INDIANAPOLIS TRIBUTARYS	E. COLI
INW01D3_T1062	PLEASANT RUN	IMPAIRED BIOTIC COMMUNITIES
INW01D4_M1060	WHITE RIVER	FCA for MERCURY
INW01D4_M1060	WHITE RIVER	FCA for PCBs
INW01D4_T1063	PLEASANT RUN	IMPAIRED BIOTIC COMMUNITIES
INW01D4_T1119	BEAN CREEK	E. COLI
INW01D4_T1119	BEAN CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01D6_M1075	WHITE RIVER	FCA for MERCURY
INW01D6_M1075	WHITE RIVER	FCA for PCBs
INW01D7_T1073	STATE DITCH	E. COLI
INW01D7_T1073	STATE DITCH	IMPAIRED BIOTIC COMMUNITIES
INW01D7_T1120	MARS DITCH	E. COLI
INW01D7_T1120	MARS DITCH	IMPAIRED BIOTIC COMMUNITIES
INW01D8_M1076	WHITE RIVER	FCA for MERCURY
INW01D8_M1076	WHITE RIVER	FCA for PCBs
INW01D8_M1076	WHITE RIVER	IMPAIRED BIOTIC COMMUNITIES
INW01D8_T1074	DOLLAR HIDE CREEK	E. COLI
INW01D8_T1074	DOLLAR HIDE CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01DA_M1077	WHITE RIVER-MANN CREEK/HARNESS DITCH	FCA for MERCURY
INW01DA_M1077	WHITE RIVER-MANN CREEK/HARNESS DITCH	FCA for PCBs
INW01DA_M1077	WHITE RIVER-MANN CREEK/HARNESS DITCH	CYANIDE
INW01DA_M1077	WHITE RIVER-MANN CREEK/HARNESS DITCH	DISSOLVED OXYGEN
INW01DB_00	PLEASANT RUN CREEK-BUFFALO CREEK	E. COLI
INW01E3_M1079	WHITE RIVER	FCA for MERCURY
INW01E3_M1079	WHITE RIVER	CYANIDE
INW01E3_M1079	WHITE RIVER	FCA for PCBs
INW01E4_M1080	WHITE RIVER	FCA for MERCURY
INW01E4_M1080	WHITE RIVER	FCA for PCBs
INW01E5_00	CROOKED CREEK-BANTA CREEK	E. COLI
INW01E6_M1081	WHITE RIVER	FCA for MERCURY
INW01E6_M1081	WHITE RIVER	FCA for PCBs
INW01E7_T1115	NORTH PRONG STOTTS CREEK (LMTD USE WATERS)	IMPAIRED BIOTIC COMMUNITIES
INW01E8_T1121	NORTH PRONG STOTTS CREEK	E. COLI
INW01EA_T1122	SOUTH PRONG STOTTS CREEK	E. COLI
INW01EA_T1122	SOUTH PRONG STOTTS CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01EB_T1123	SOUTH PRONG STOTTS CREEK	E. COLI
INW01EC_00	STOTTS CREEK-EXCHANGE	E. COLI
INW01ED_M1082	WHITE RIVER-HENDERSON BRIDGE	FCA for MERCURY
INW01ED_M1082	WHITE RIVER-HENDERSON BRIDGE	FCA for PCBs
INW01F1_T1083	WHITE LICK CREEK	FCA for MERCURY
INW01F1_T1083	WHITE LICK CREEK	FCA for PCBs
INW01F2_T1084	WHITE LICK CREEK	FCA for MERCURY
INW01F2_T1084	WHITE LICK CREEK	FCA for PCBs
INW01F4_00	TILDEN	E. COLI
INW01F4_T1085	WHITE LICK CREEK	FCA for MERCURY
INW01F4_T1085	WHITE LICK CREEK	E. COLI
INW01F4_T1085	WHITE LICK CREEK	FCA for PCBs
INW01F5_T1086	WHITE LICK CREEK	FCA for MERCURY
INW01F5_T1086	WHITE LICK CREEK	E. COLI
INW01F5_T1086	WHITE LICK CREEK	FCA for PCBs
INW01F7_T1087	WHITE LICK CREEK-PLAINFIELD	FCA for MERCURY

WATERBODY SEGMENT ID	WATERBODY SEGMENT NAME	CAUSE OF IMPAIRMENT
INW01F7_T1087	WHITE LICK CREEK-PLAINFIELD	E. COLI
INW01F7_T1087	WHITE LICK CREEK-PLAINFIELD	FCA for PCBs
INW01F8_00	WEST FORK WHITE LICK CREEK-HEADWATERS	E. COLI
INW01F9_00	WEST FORK WHITE LICK CREEK-THOMPSON CREEK	E. COLI
INW01FA_T1224	WEST FORK WHITE LICK CREEK	E. COLI
INW01FB_00	WEST FORK WHITE LICK CREEK-MAIN STEM	E. COLI
INW01FC_T1088	WHITE LICK CREEK	FCA for MERCURY
INW01FC_T1088	WHITE LICK CREEK	E. COLI
INW01FC_T1088	WHITE LICK CREEK	FCA for PCBs
INW01FD_T1089	WHITE LICK CREEK-MOORSEVILLE	FCA for MERCURY
INW01FD_T1089	WHITE LICK CREEK-MOORSEVILLE	E. COLI
INW01FD_T1089	WHITE LICK CREEK-MOORSEVILLE	FCA for PCBs
INW01FE_00	EAST FORK WHITE LICK CREEK-HEADWATERS AND OTHER TRIBUTARIES	E. COLI
INW01FE_T1107	EAST FORK WHITE LICK CREEK	FCA for PCBs
INW01FE_T1107	EAST FORK WHITE LICK CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01FF_00	EAST FORK WHITE LICK CREEK-STERLING RUN	E. COLI
INW01FF_T1108	EAST FORK WHITE LICK CREEK	E. COLI
INW01FF_T1108	EAST FORK WHITE LICK CREEK	FCA for PCBs
INW01FF_T1124	EAST FORK WHITE LICK CREEK	FCA for PCBs
INW01FF_T1124	EAST FORK WHITE LICK CREEK	IMPAIRED BIOTIC COMMUNITIES
INW01FG_00	EAST FORK WHITE LICK CREEK-SILON CREEK	E. COLI
INW01FG_T1109	EAST FORK WHITE LICK CREEK	FCA for PCBs
INW01FG_T1109	EAST FORK WHITE LICK CREEK	E. COLI
INW01FH_T1090	WHITE LICK CREEK	FCA for MERCURY
INW01FH_T1090	WHITE LICK CREEK	E. COLI
INW01FH_T1090	WHITE LICK CREEK	FCA for PCBs
INW01FJ_T1091	WHITE LICK CREEK	FCA for MERCURY
INW01FJ_T1091	WHITE LICK CREEK	E. COLI
INW01FJ_T1091	WHITE LICK CREEK	FCA for PCBs
INW01G1_M1092	WHITE RIVER	FCA for MERCURY
INW01G1_M1092	WHITE RIVER	FCA for PCBs
INW01G3_M1093	WHITE RIVER	FCA for MERCURY
INW01G3_M1093	WHITE RIVER	FCA for PCBs
INW01G6_M1094	WHITE RIVER	FCA for MERCURY
INW01G6_M1094	WHITE RIVER	CYANIDE
INW01G6_M1094	WHITE RIVER	FCA for PCBs
INW01J3_M1104	WHITE RIVER-PARAGON BRIDGE	FCA for MERCURY
INW01J3_M1104	WHITE RIVER-PARAGON BRIDGE	FCA for PCBs
INW01J6_M1105	WHITE RIVER	FCA for MERCURY
INW01J6_M1105	WHITE RIVER	FCA for PCBs
INW01J9_M1106	WHITE RIVER	FCA for MERCURY
INW01J9_M1106	WHITE RIVER	FCA for PCBs
INW01P1036_00	MORSE RESERVOIR	ALGAE
INW01P1036_00	MORSE RESERVOIR	TASTE AND ODOR
INW01P1048_00	GEIST RESERVOIR	ALGAE
INW01P1048_00	GEIST RESERVOIR	FCA for MERCURY
INW01P1048_00	GEIST RESERVOIR	FCA for PCBs
INW01P1048_00	GEIST RESERVOIR	TASTE AND ODOR
INW01P1069_00	EAGLE CREEK RESERVOIR	ALGAE
INW01P1069_00	EAGLE CREEK RESERVOIR	TASTE AND ODOR

Soils

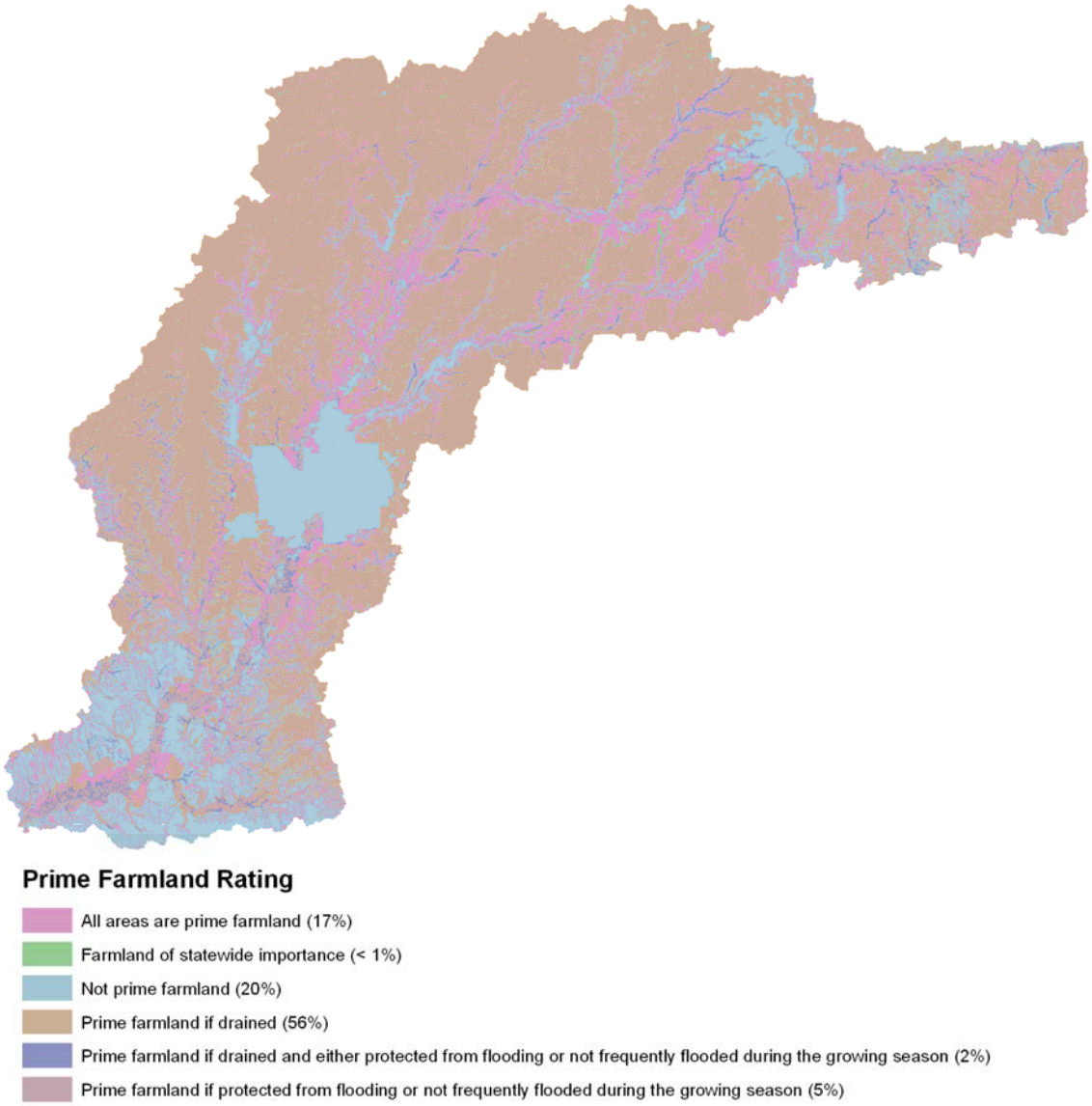
The dominant soil orders in the Upper White Watershed are Alfisols, Inceptisols, and Mollisols. The MLRA also has small areas of Histosols. The soils in the area have a mesic soil temperature regime, an aquic or udic soil moisture regime, and mixed mineralogy. They are very deep, generally are very poorly drained to somewhat poorly drained, and are loamy or clayey. The dominant kinds of parent material are till, outwash, and loess. Others include alluvium, glaciolacustrine sediments, residuum, and organic deposits. Hapludalfs (Cardington, Celina, Lewisburg, Losantville, Miami, Miamian, Milton, Russell, Strawn, Wawaka, Williamstown, and Xenia series) and Epiaqualfs (Crosby and Fincastle series) are on moraines. Some Argiaquolls (Brookston, Cyclone, Kokomo, and Treaty series) are in depressions on ground moraines. Other Argiaquolls (Lippincott and Westland series) and Endoaquolls (Patton and Pella series) are in depressions on outwash plains and terraces. Hapludalfs (Eldean, Fox, Martinsville, and Ockley series) and Endoaqualfs (Sleeth and Whitaker series) are on terraces and outwash plains. Haplosaprists (Linwood and Palms series) and Humaquepts (Martisco series) are in deep depressions or potholes. Eutrudepts (Eel and Genesee series), Hapludolls (Ross series), Endoaquepts (Shoals series), and Endoaquolls (Sloan series) are on flood plains.

Drainage Classification



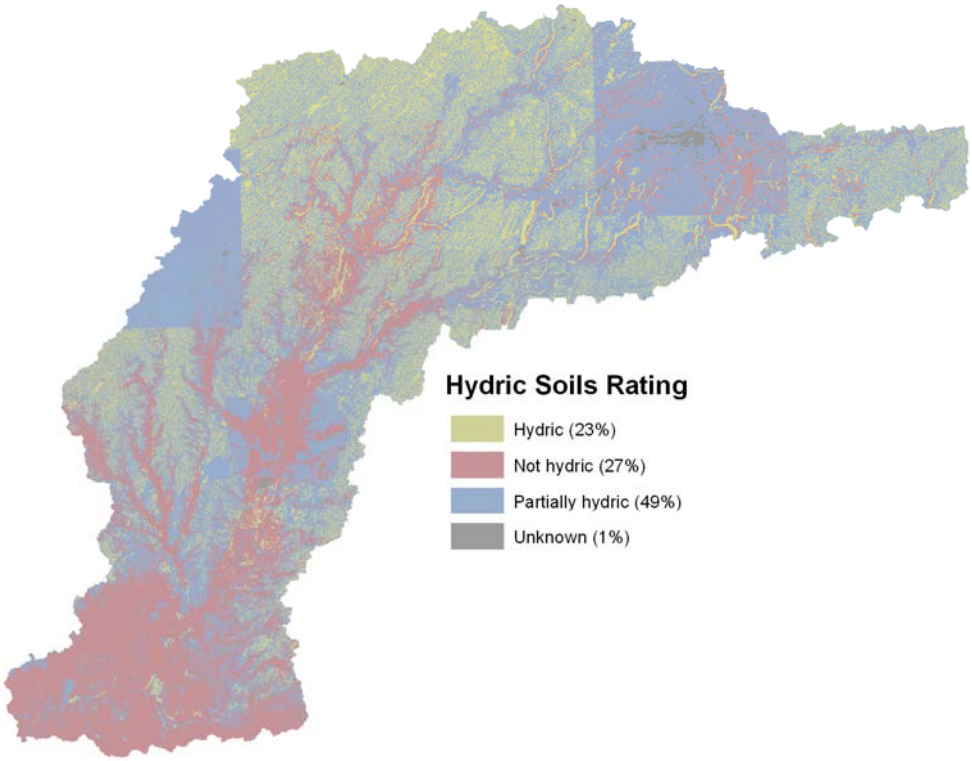
Drainage class (natural) refers to the frequency and duration of wet periods under conditions similar to those under which the soil formed. Alterations of the water regime by human activities, either through drainage or irrigation, are not a consideration unless they have significantly changed the morphology of the soil. Seven classes of natural soil drainage are recognized–excessively drained, somewhat excessively drained, well drained, moderately well drained, somewhat poorly drained, poorly drained, and very poorly drained. These classes are defined in the “Soil Survey Manual.”

Farmland Classification Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. Farmland classification identifies the location and extent of the most suitable land for producing food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the Federal Register, Vol. 43, No 21, January 31, 1978.



*Hydric Soils*This rating provides an indication of the proportion of the map unit that meets criteria for hydric soils. Map units that are dominantly made up of hydric soils may have small areas, or inclusions of non-hydric soils in the higher positions on the landform, and map units dominantly made up of non–hydric soils may have inclusions of hydric soils in the lower positions on the landform.

Hydric soils are defined by the National Technical Committee for Hydric Soils (NTCHS) as soils that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register 1994). These soils, under natural conditions, are either saturated or inundated long enough during the growing season to support the growth and reproduction of hydrophytic vegetation.



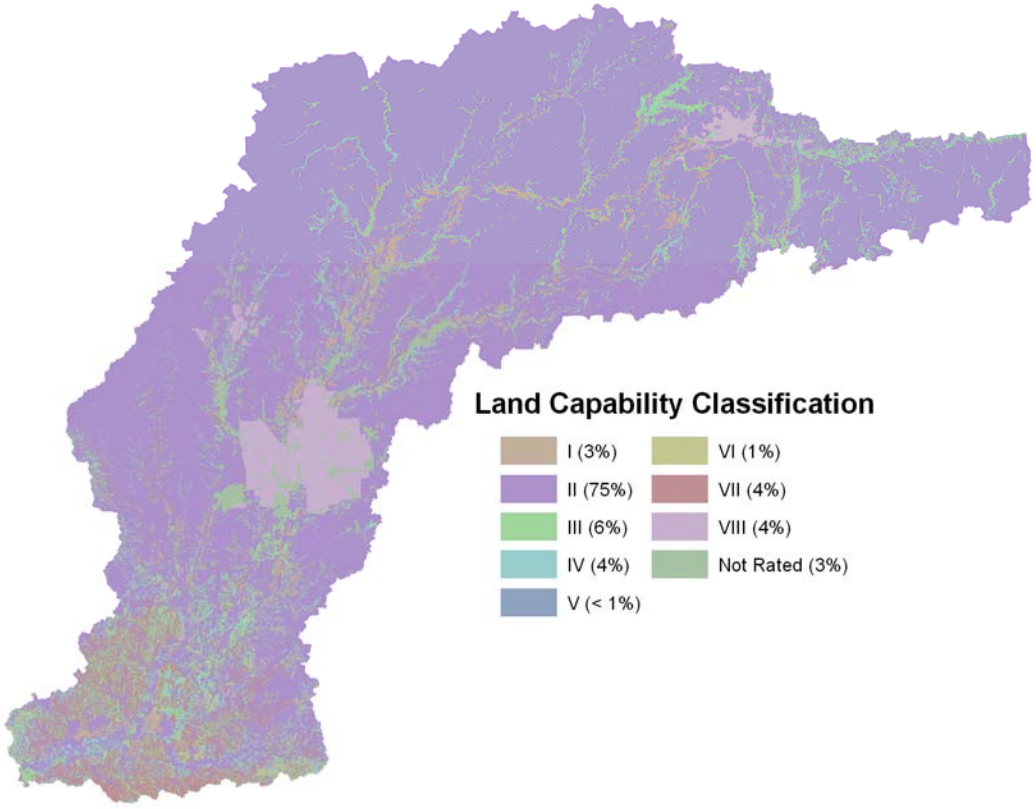
If soils are wet enough for a long enough period of time to be considered hydric, they should exhibit certain properties that can be easily observed in the field. These visible properties are indicators of hydric soils. The indicators used to make on site determinations of hydirc soils are specified in “Field Indicators of Hydric Soils in the United States” (Hurt and others, 2002).

Highly Erodible Land (HEL)

A soil map unit with an erodibility index (EI) of 8 or greater is considered to be highly erodible land (HEL). The EI for a soil map unit is determined by dividing the potential erodibility for the soil map unit by the soil loss tolerance (T) value established for the soil in the FOTG as of January 1, 1990. Potential erodibility is based on default values for rainfall amount and intensity, percent and length of slope, surface texture and organic matter, permeability, and plant cover. Actual erodibility and EI for any specific map unit depends on the actual values for these properties.

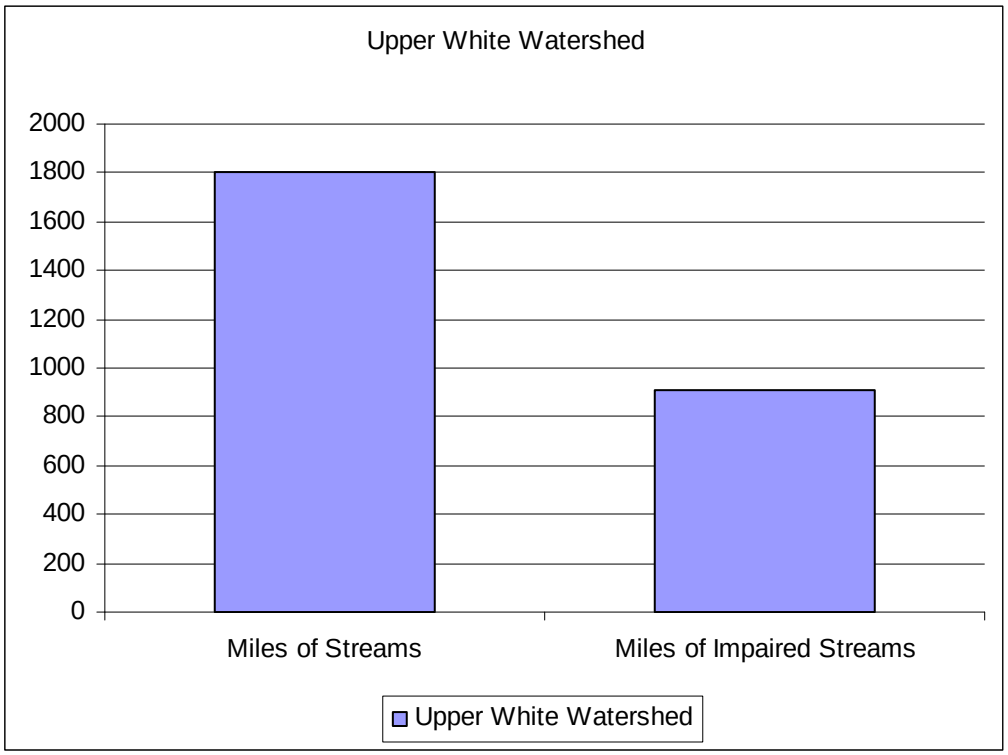
Land Capability Classification

Land capability classification shows, in a general way, the suitability of soils for most kinds of field crops. Crops that require special management are excluded. The soils are grouped according to their limitations for field crops, the risk of damage if they are used for crops, and the way they respond to management. The criteria used in grouping the soils do not include major and generally expensive land forming that would change slope, depth, or other characteristics of the soils, nor do they include possible but unlikely major reclamation projects. Capability classification is not a substitute for interpretations designed to show suitability and limitations of groups of soils for rangeland, for forestland, or for engineering purposes.

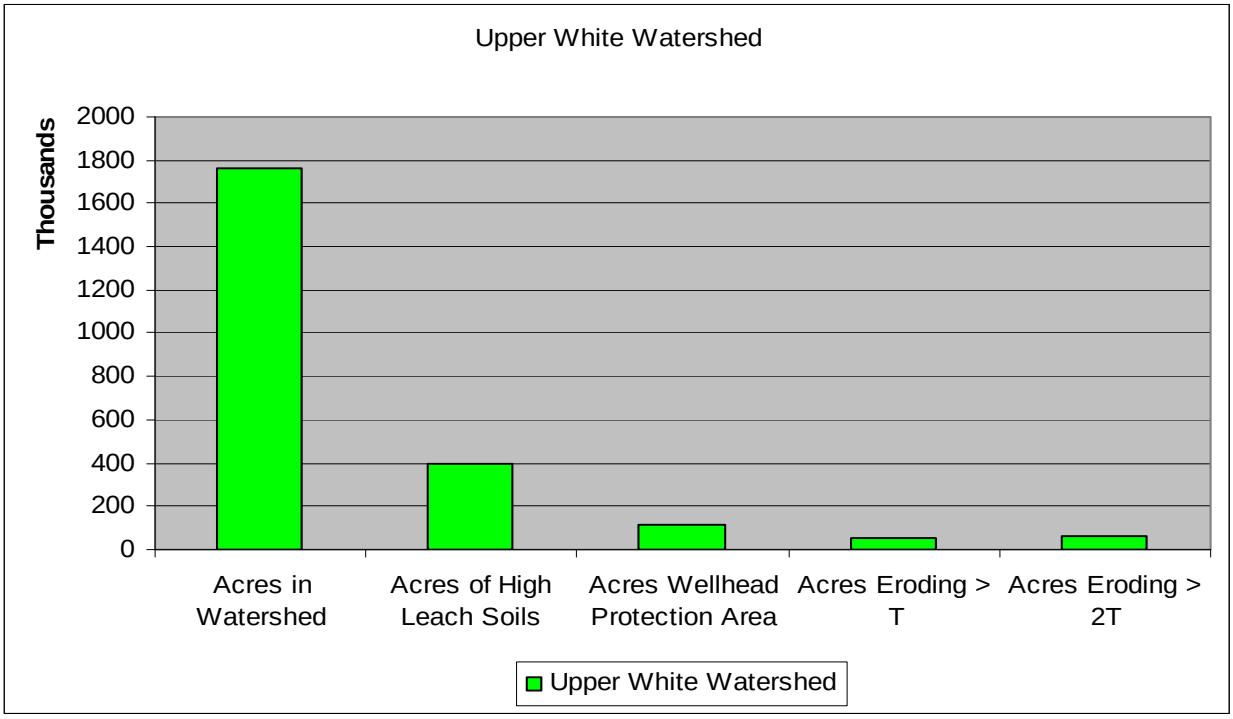


Resource Concerns
Stakeholders and electronic analysis have been identified the following resource concerns as being the top priority:

- Surface Water Quality – There is approximately 51 percent or 913 miles of the 1807 total miles of the streams within the watershed that have identified impairments. Excessive amounts of sediments, nutrients, and bacteria degrade the water quality causing an unbalanced fish community with depressed populations and limited diversity.



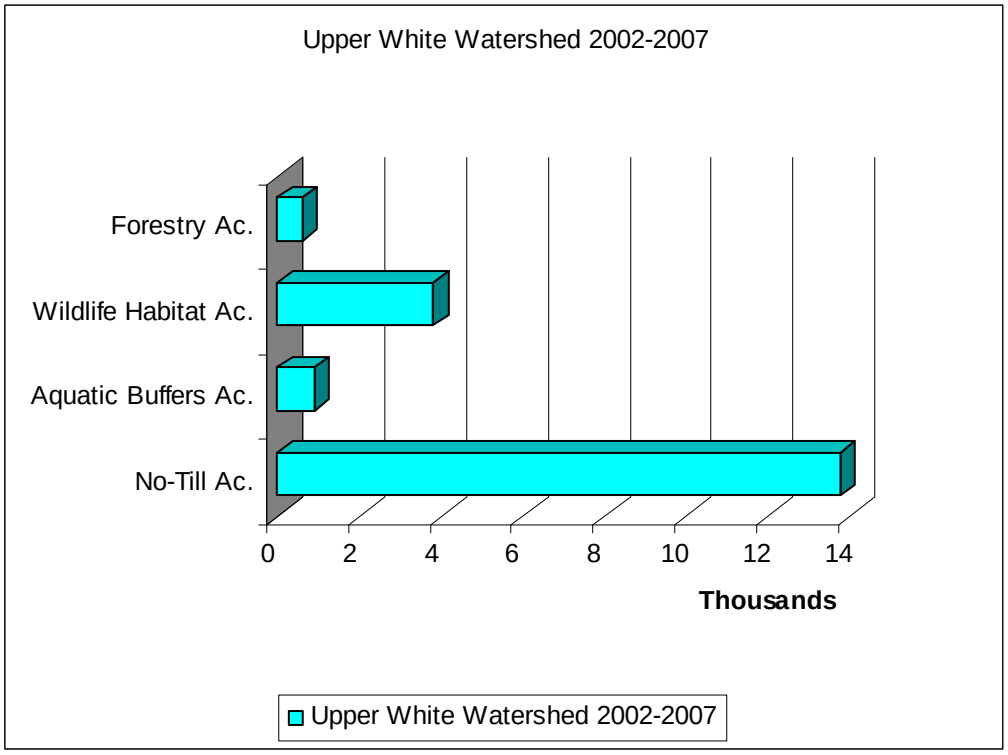
- Ground Water Quality - The watershed has in excess of 396,900 acres of soils with high leaching index (> 10) which allows containments on the land surface to be carried easily into the ground water from infiltrating water. Because of this condition, non–point pollutants such as fertilizers, pesticides, and livestock waste have the potential to contaminate the ground water aquifer.



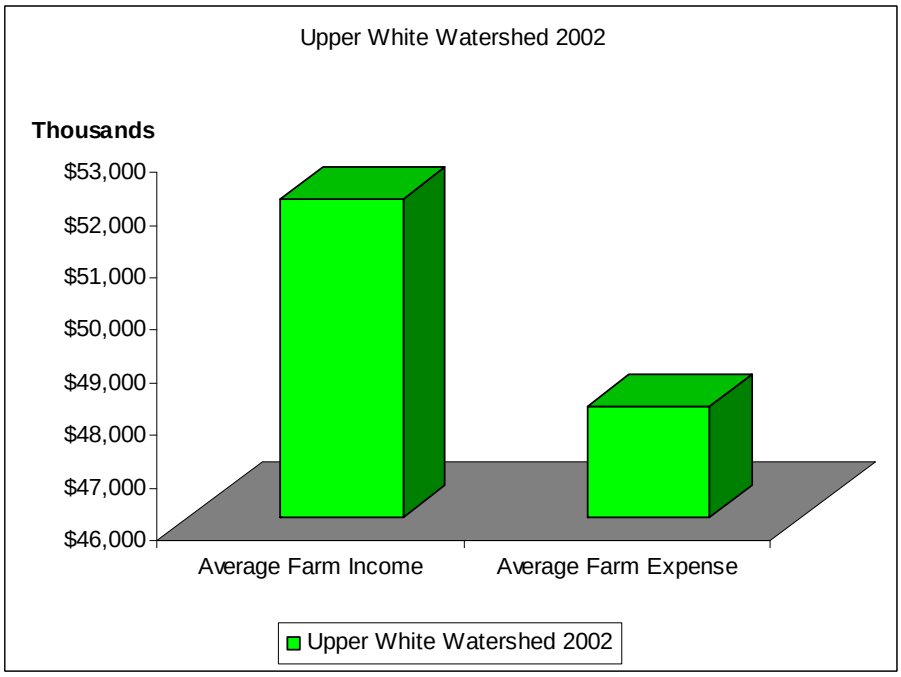
- Soil Quality – The watershed has over 124,000 acres of soils subject to soil erosion. Just over 63,700 acres of these 124,000 acres is eroding at twice the tolerable level or "T". These totals represent some 7 percent of the watershed.
- Air Quality – 92.4 percent of the watershed has been identified by the Environmental Protection Agency as have an air quality concern.
- Threatened & Endangered Species – Just over 11 percent of the 1,761,300 acres in the watershed lie within the range of know Threatened and Endangered Species.

Performance Results System and Other Data

The producers within the watershed have implemented a variety of conservation practices over the past five years. Since 2002 through 2007 landowners have implemented over 13,790 acres of No-Till, approximately 1,066,000 feet of upland buffers, and just over 840 acres of aquatic buffers. Wildlife habitat has been improved or established on more than 3,800 acres within the watershed and just over than 600 acres of forestry practices have been applied.

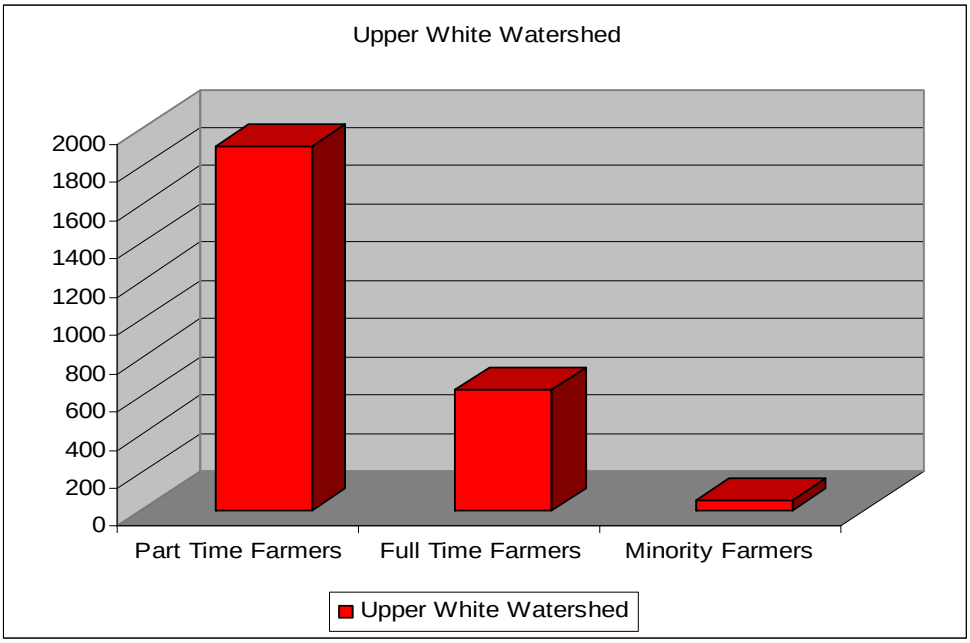


Census and Social Data (Relevant)
There are approximately 9000 farms in the watershed that average approximately 224 acres in size.



The 2002 average farm total income for all the counties was $52,052,000 while average expense was $48,099,000.

There are approximately 1,900 part time farmers, 630 full time farmers and 53 minority farmers.



All data is provided "as is." There are no warranties, express or implied, including the warranty of fitness for a particular purpose, accompanying this document. Use for general planning purposes only.

Data Sources:

Indiana Common Resource Area (CRA) Map delineations are defined as geographical areas where resource concerns, problems, or treatment needs are similar. It is considered a subdivision of an existing Major Land Resource Area (MLRA) map delineation or polygon. Landscape conditions, soil, climate, human considerations, and other natural resource information are used to determine the geographic boundaries of a CRA.

Indiana Agricultural Statistics 2003 – 2004 - Indiana Agricultural Statistics, 1435 Win Hentshcel Blvd., Suite B105, West Lafayette

Major Land Resource Area Map Tool - Indiana NRCS Soils Page - http://www.in.nrcs.usda.gov/mlra11/soils.html

Indiana Hydrologic Units - Indiana Geodata

Indiana Watershed Action Strategy Plan

Indiana Rapid Watershed Assessment (Electronic Data Sets – Web based application.

Indiana 2006 303d List – Indiana Department of Agriculture, Division of Natural Resources