

APPENDIX C: DATA DICTIONARY

Field	Description	Source	Data last modified
Comid	catchment comid (unique identifier)	NHDPlus	6/2/2011
Eco_code3	Ecoregion code (majority), Level III, catchment	US EPA Omernik Ecoregions for North America, Level III	6/2/2011
Cumdrainag	Cumulative drainage area in square kilometers	catchmentattributesflow.dbf	6/2/2011
Minelevraw	Minimum elevation (unsmoothed) in meters	catchmentattributesflow.dbf	6/2/2011
Slope	Slope of flowline (cm/cm)	catchmentattributesflow.dbf	6/2/2011
Precip	Mean annual precipitation in mm	catchmentattributestempprecip.dbf	6/2/2011
Temp	Mean annual temperature in degrees centigrade * 10	catchmentattributestempprecip.dbf	6/2/2011
Grassp	NLCD 2006 grassland/herbaceous, area (%), catchment	NLCD 2006	6/2/2011
Pastp	NLCD 2006 pasture/hay, area (%), catchment	NLCD 2006	6/2/2011
Cropsp	NLCD 2006 cultivated crops, area (%), catchment	NLCD 2006	6/2/2011
Devp	NLCD 2006 Developed land cover classes (21, 22, 23, 24), area (%), catchment	NLCD 2006	6/2/2011
Forp	NLCD 2006 Forested land cover classes (41, 42, 43), area (%), catchment	NLCD 2006	6/2/2011
Agp	NLCD 2006 Agriculture land cover classes (81, 82), area (%), catchment	NLCD 2006	6/2/2011
Wetp	NLCD 2006 Wetland land cover classes (90, 95), area (%), catchment	NLCD 2006	6/2/2011
Grasspc	NLCD 2006 grassland/herbaceous, area (%), upstream cumulative	NLCD 2006	6/2/2011
Pastpc	NLCD 2006 pasture/hay, area (%), upstream cumulative	NLCD 2006	6/2/2011
Cropspc	NLCD 2006 cultivated crops, area (%), upstream cumulative	NLCD 2006	6/2/2011
Devpc	NLCD 2006 Developed land cover classes (21, 22, 23, 24), area (%), upstream cumulative	NLCD 2006	6/2/2011
Forpc	NLCD 2006 Forested land cover classes (41, 42, 43), area (%), upstream cumulative	NLCD 2006	6/2/2011
Agpc	NLCD 2006 Agriculture land cover classes (81, 82), area (%), upstream cumulative	NLCD 2006	6/2/2011
Wetpc	NLCD 2006 Wetland land cover classes (90, 95), area (%), upstream cumulative	NLCD 2006	6/2/2011
Imp06	NLCD 2006 percent impervious, average, catchment	NLCD 2006	6/2/2011
Imp06C	NLCD 2006 percent impervious, average, upstream cumulative	NLCD 2006	6/2/2011
Soil1p	Revised soil hydrologic group code 1 (A, A/D), area (%), catchment	STATSGO	6/2/2011
Soil2p	Revised soil hydrologic group code 2 (B, B/D), area (%), catchment	STATSGO	6/2/2011
Soil3p	Revised soil hydrologic group code 3 (C, C/D), area (%), catchment	STATSGO	6/2/2011

Soil4p	Revised soil hydrologic group code 4 (D), area (%), catchment	STATSGO	6/2/2011
Brock1p	Bedrock geology, group code 1 (Carbonate), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock2p	Bedrock geology, group code 2 (Felsic/igneous), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock3p	Bedrock geology, group code 3 (Mafic/igneous), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock4p	Bedrock geology, group code 4 (Metamorphic), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock5p	Bedrock geology, group code 5 (Sand/gravel), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock6p	Bedrock geology, group code 6 (Sandstone), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Brock7p	Bedrock geology, group code 7 (Shale), area (%), catchment	USGS state geologic maps for Midwest	6/2/2011
Surf1p	Surficial geology, group code 1 (Till), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf2p	Surficial geology, group code 2 (Outwash), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf3p	Surficial geology, group code 3 (Alluvium), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf4p	Surficial geology, group code 4 (Lacustrine), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf5p	Surficial geology, group code 5 (Loess), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf6p	Surficial geology, group code 6 (Residuum), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf7p	Surficial geology, group code 7 (Clay), area (%), catchment	USGS surficial geology of the US	6/2/2011
Surf8p	Surficial geology, group code 8 (Colluvium), area (%), catchment	USGS surficial geology of the US	6/2/2011
Soil1pc	Revised soil hydrologic group code 1 (A, A/D), area (%), upstream cumulative	STATSGO	6/2/2011
Soil2pc	Revised soil hydrologic group code 2 (B, B/D), area (%), upstream cumulative	STATSGO	6/2/2011
Soil3pc	Revised soil hydrologic group code 3 (C, C/D), area (%), upstream cumulative	STATSGO	6/2/2011
Soil4pc	Revised soil hydrologic group code 4 (D), area (%), upstream cumulative	STATSGO	6/2/2011
Brock1pc	Bedrock geology, group code 1 (Carbonate), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock2pc	Bedrock geology, group code 2 (Felsic/igneous), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock3pc	Bedrock geology, group code 3 (Mafic/igneous), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock4pc	Bedrock geology, group code 4 (Metamorphic), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock5pc	Bedrock geology, group code 5 (Sand/gravel), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock6pc	Bedrock geology, group code 6 (Sandstone), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Brock7pc	Bedrock geology, group code 7 (Shale), area (%), upstream cumulative	USGS state geologic maps for Midwest	6/2/2011
Surf1pc	Surficial geology, group code 1 (Till), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf2pc	Surficial geology, group code 2 (Outwash), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011

Surf3pc	Surficial geology, group code 3 (Alluvium), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf4pc	Surficial geology, group code 4 (Lacustrine), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf5pc	Surficial geology, group code 5 (Loess), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf6pc	Surficial geology, group code 6 (Residuum), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf7pc	Surficial geology, group code 7 (Clay), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Surf8pc	Surficial geology, group code 8 (Colluvium), area (%), upstream cumulative	USGS surficial geology of the US	6/2/2011
Wetlandp	wetland area, percent of catchment's area (0 to 100%)	NWI and GAP wetlands	6/2/2011
N_kgden	total estimated N inputs (kg/year), per sq km, catchment	USGS	6/2/2011
P_kgden	total estimated P inputs (kg/kear), per sq km, catchment	USGS	6/2/2011
Bfi_mean	Base Flow Index, mean (catchment)	USGS	6/2/2011
WetlandPC	wetland area, percent of upstream contributing area (0 to 100%)	NWI and GAP wetlands	6/2/2011
Areagisc	calculated area of upstream contributing area (sq km)	calculated	6/2/2011
N_kgdenc	total estimated N inputs (kg/year), per sq km, upstream cumulative	USGS	6/2/2011
P_kgdenc	total estimated P inputs (kg/kear), per sq km, upstream cumulative	USGS	6/2/2011
Bfi_meanc	Base Flow Index, mean (upstream contributing area)	USGS	6/2/2011
Water_gw	LOCAL: USGS National Atlas of the US: Ground Water Use by COUNTY 2000: Millions gallons per day/km2	local_disturbance_variables.dbf	6/2/2011
Water_sw	LOCAL: USGS National Atlas of the US: Surface Water Use by COUNTY 2000: Millions gallons per day/km2	local_disturbance_variables.dbf	6/2/2011
Cattle	LOCAL: Agricultural Census 2002, 1:2M scale, INTEGER: average number of cattle/acre farmland	local_disturbance_variables.dbf	6/2/2011
Popdens	LOCAL: US Population Density 2000, NOAA, scale 1km, #/km2	local_disturbance_variables.dbf	6/2/2011
Roadcr	LOCAL: Census 2000 TIGER Roads, 1:100K scale, road crossings identified by INTERSECT, with points generated, #/km2	local_disturbance_variables.dbf	6/2/2011
Roadlen	LOCAL: Census 2000 TIGER Roads, 1:100K scale, units not given - m/km2	local_disturbance_variables.dbf	6/2/2011
Dams	LOCAL: National Inventory of Dams, 2002-2004, #/km2	local_disturbance_variables.dbf	6/2/2011
Mines	LOCAL: USGS Active Mines and Mineral Processing Plants, 2003, #/km2	local_disturbance_variables.dbf	6/2/2011
Tri	LOCAL: USEPA, 2007: #/km2 Toxics Release Inventory Program sites	local_disturbance_variables.dbf	6/2/2011
Npdes	LOCAL: USEPA, 2007: #/km2 National Pollutant Discharge Elimination System sites	local_disturbance_variables.dbf	6/2/2011
Cerc	LOCAL: USEPA, 2007: #/km2 Compensation and Liability Information System sites	local_disturbance_variables.dbf	6/2/2011
Water_gwc	NETWORK: USGS National Atlas of the US: Ground Water Use by COUNTY 2000: Millions gallons per day/km2	network_disturbance_variables.dbf	6/2/2011
Water_swc	NETWORK: USGS National Atlas of the US: Surface Water Use by COUNTY 2000: Millions gallons per day/km2	network_disturbance_variables.dbf	6/2/2011

Cattlec	NETWORK: Agricultural Census 2002, 1:2M scale, INTEGER: average number of cattle/acre farmland	network_disturbance_variables.dbf	6/2/2011
Popdensc	NETWORK: US Population Density 2000, NOAA, scale 1km, #/km2	network_disturbance_variables.dbf	6/2/2011
Roadcrc	NETWORK: Census 2000 TIGER Roads, 1:100K scale, road crossings identified by INTERSECT, with points generated, #/km2	network_disturbance_variables.dbf	6/2/2011
Roadlenc	NETWORK: Census 2000 TIGER Roads, 1:100K scale, units not given - m/km2	network_disturbance_variables.dbf	6/2/2011
Damsc	NETWORK: National Inventory of Dams, 2002-2004, #/km2	network_disturbance_variables.dbf	6/2/2011
Minesc	NETWORK: USGS Active Mines and Mineral Processing Plants, 2003, #/km2	network_disturbance_variables.dbf	6/2/2011
Tric	NETWORK: USEPA, 2007: #/km2 Toxics Release Inventory Program sites	network_disturbance_variables.dbf	6/2/2011
Npdsc	NETWORK: USEPA, 2007: #/km2 National Pollutant Discharge Elimination System sites	network_disturbance_variables.dbf	6/2/2011
Cercc	NETWORK: USEPA, 2007: #/km2 Compensation and Liability Information System sites	network_disturbance_variables.dbf	6/2/2011