**Appendix 1.** GIS datasets and their sources.\*

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| Spatial Dataset | Data Source | Source Data format | Processing format | Resolution/Scale | Reference |
| Ecoregions | EPA Omernik's Level III Ecoregions | Vector | Vector | 1:7,500,000 | U.S Environmental Protection Agency Dataset, Digital data Available at URL: http://www.epa.gov/wed/pages/ecoregions/level\_iii\_iv.htm |
| Elevation | National Elevation Dataset (NED) | Raster | Raster | 10 meter | U.S. Geological Survey, National Elevation Dataset, Digital data, Available at URL: http://nationalmap.gov/ |
| Slope | National Elevation Dataset (NED) | Raster | Raster | 10 meter | U.S. Geological Survey, National Elevation Dataset, Digital data, Available at URL: http://nationalmap.gov/ |
| Land Cover 2001 | National Land Cover Dataset 2001(NLCD) | Raster | Raster | 30 meter | U.S. Geological Survey, National Land Cover Dataset 2001, Digital data, Available at URL: http://www.mrlc.gov/ |
| Road Networks | U.S. Census Bureau Tiger | Vector | Vector | 1:100,000 | U.S. Census Bureau, TIGER line data, Digital data, Available at URL: http://www.census.gov/geo/www/tiger/ |
| Soil Infiltration Capacity | USDA NRCS STATSGO | Vector | Vector | 1:250,000 | Natural Resource Conservation Service, STATSGO soils data, Digital data, Available at URL: http://datagateway.nrcs.usda.gov/ |
| Hydrography | National Hydrography Dataset (NHD) | Vector | Vector | 1:24,000 | U.S. Geological Survey, National Hydrography Dataset, Digital data, Available at URL: http://nhd.usgs.gov/data.html |
| Dams | National Inventory of Dams | Vector | Vector | Various | U.S. Army Corps of Engineers, National Inventory of Dams, Digital data, Not publicly available |
| Pollution Point Sources | EPA Toxic Release Inventory | Vector | Vector | Various | U.S. Environmental Protection Agency, Toxic Release Inventory data, Digital data, Available at URL: http://www.epa.gov/tri/tridata/tri05/data |
| Precipitation | Oregon State University PRISM | Raster | Raster | 30 arc-second | PRISM Group, Oregon State University, Precipitation data for the U.S., Digital data, Available at URL: http://www.prismclimate.org |
| Population Density | U.S. Census Bureau Census 2000 | Vector | Vector | 30 meter | U.S. Census Bureau, Census 2000, Digital data, Available at URL: http://www.census.gov/main/www/cen2000.html |
| Canopy Cover | National Land Cover Dataset 2001 Percent Tree Canopy | Raster | Raster | 30 meter | U.S. Geological Survey, National Land Cover Dataset 2001, Percent Tree Canopy (Version 1.0) Dataset. Digital Data. Available at URL: http://www.mrlc.gov |

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\* TIGER–Topologically Integrated Geographic Encoding and Referencing, PRISM– Parameter-elevation Regressions on Independent Slopes Model, STATSGO–State Soil Geographic data base.