

Additional Imagery and Lidar-derived Options

Counties Municipalities Tribes Utilities Federal Agencies State Agencies Universities Private Sector

IMPERVIOUS SURFACE MAPPING



Higher volumes of runoff generated by impervious surfaces can create problems due to flooding, increased rates of erosion, and water pollution. By knowing the location and extent of impervious surfaces, managers have a visual record of how they relate to area watersheds and existing stormwater management facilities.

HYDRO NETWORK COLLECTION



High-definition lidar surface models, combined with high-resolution aerial imagery, have proven to be valuable tools in the management of a region's water resources. Accurate collection of the hydrographic network, along with the application of culvert extraction, will provide a true and up-to-date model of natural flow patterns.

VOLUMETRIC APPLICATIONS



Volumetric measurements can be calculated using information collected by an airborne lidar system. Some applications would include using a high-density, classified point cloud to measure tree stand volume or aboveground vegetative biomass in a forest management situation; or utilizing lidar surface data to perform cut and fill calculations in an existing mine site or to measure the volume of aggregate stockpiles.

BUILDING FOOTPRINT EXTRACTION



A current data set of building footprints is a valuable resource to have when decisions need to be made pertaining to planning and zoning enforcement, emergency management, and public works. Building footprints can also aid in monitoring land use change and urban growth.