

## 4.5 Additional Data Needs and Next Steps

Several areas were identified in the preceding sections for which certain or additional data would be useful to model risk, vulnerability, and losses. These data and their potential sources and usefulness relative to specific hazards are presented in Table 4-5-1.

Table 4-5-1. Data Needs to Support Future Refinement of Loss and Exposure Estimates

Data Needed	Potential Source(s)	Potential Usefulness	Hazard Evaluations Supported
Spatial and attribute information for overhead and underground utilities (age, type of equipment, past problems, proximity to facilities, etc.)	Private and public utilities, County and Town Public Works Departments	Evaluation of areas prone to power outage	Flood; Severe Winter Storm (snow); Ice Storm; Severe Storm (wind); Landslide; Wildfire
Cost and loss information pertaining to utility failure and blackouts	Private and public utilities, County and Town Public Works Departments	Modeling and estimation of future losses	Flood; Severe Winter Storm (snow); Ice Storm; Severe Storm (wind); Landslide; Wildfire
Outage, replacement, and maintenance records for utilities (e.g., power lines, sewers, Wastewater Treatment Plants (WTPs, etc.) infrastructure	Private and public utilities, County and Town Public Works Departments; County, State, and Federal Transportation Departments	Modeling and prediction of future utility failure events	Flood; Severe Winter Storm (snow); Ice Storm, Severe Storm (wind); Landslide; Wildfire
Data on the location, severity (property losses, injuries, fatalities, etc.), frequency, and causes of traffic accidents	Transportation Departments, Public Safety Agencies (Police, Fire and Rescue, other); Insurance Companies	Modeling and prediction of future accident hazard areas, events, and losses	Severe Winter Storm, Ice Storm
Updated data on the location, depth, severity (property losses, injuries, fatalities, etc.), associated with June 2006 (being developed)	Transportation Departments, Public Safety Agencies (Police, Fire and Rescue, other); Local GIS Departments, NYSEG, FEMA/USGS	Modeling and prediction of future flood events based on recent actual data	Flood; Ice Jam
Replacement, expenditure, spatial, back-up power, and maintenance records for transportation infrastructure (roads, bridges, rail lines, airports, etc.) and other critical inventory	Transportation Departments, County and Town Clerk and Treasurers, Public Works Departments	Modeling and Prediction of future accident hazard areas, events, and losses	Severe Winter Storm (snow); Ice Storm; Ice Jam (bridges); Severe Storm (wind)
Data on non-secure slopes, development plans in relation to landslide potential, soil erosion and storm water run-off data	USGS, local geological departments, local planning and GIS departments	Ongoing assessment of hazard potential	Landslide
Agricultural Production Value; past impacts on agriculture of specific hazard events	Agricultural, Economic, and other Land Use Departments	Modeling of potential economic impact associated with hazard events	Flood; Severe Storm (wind); Wildfire; Drought; Extreme Temperature

Data Needed	Potential Source(s)	Potential Usefulness	Hazard Evaluations Supported
Information regarding disease outbreaks and prevention measures (for example, type and severity of disease, location of areas for mosquito breeding, number of people affected, international travel, response and controls, immunizations, cancer registries, losses, etc.)	County, State, and Federal Public Health Departments (e.g., Broome County Public Health Department, NYSDH, CDC, etc.)	Prediction of events and losses associated with future outbreaks and response	Epidemic (human)
Attribute and spatial information regarding critical facilities and vulnerable infrastructure (for example, construction materials, security, number of people typically present, “importance” of resource, structural considerations, proximity to residential and economic centers, etc.)	County Assessor, Recorder, Treasurer, HAZUS-MH, land use planning agencies, currently available local data (foundation)	Assessment of vulnerability to terrorism and natural hazards not currently modeled by HAZUS-MH	Hazards where evacuation or shelter might be required (Severe Winter Storm; Flood; Wildfire; Ice Storm; Severe Storm)
Information regarding wildfires, forest fuel sources, and development at urban/forest and grassland interface (for example, type and severity of event, no. people and structures, affected, locations, response and controls, causes, losses, etc.)	County and Town Fire Marshall; County, State, and Federal Environmental Departments	Ongoing assessment of vulnerability to wildfire hazard	Wildfire