

Data Summary Matrix

Delaware County - Hazard Mitigation Plan
Critical Data Matrix
February, 2006

	Critical	Desirable	Non-HAZUS Desirable	Available	Hazard Priority	C = Complete P = Partial M = Missing	Source/Date	Comments
(1) Political Boundary								
County Boundary (detailed)			✓			C	CUGIR/ESRI	
Town Boundaries			✓			C	CUGIR/ESRI	
Village Boundaries			✓			C	DCPD-GIS	
NY Counties			✓			C	CUGIR/ESRI	
(2) Base Map (Planimetric Data)								
Building Footprints/Points			✓			M		
Parcel and Lot lines			✓			N/A		Not needed for this analysis
Right-of-Way and Edge of Pavement			✓			N/A		Not needed for this analysis
Easements			✓			N/A		Not needed for this analysis
Landmarks			✓			N/A		Not needed for this analysis
(3) Hydrographic								
Rivers, Creeks, Stream Centerlines	✓					C	CUGIR/Census/ESRI	
Lakes, Ponds, and Bodies of Water	✓					C	CUGIR/Census/ESRI	
Drainage Basins	✓					C	CUGIR	
(4) Hypsographic								
Contour Lines	✓					C	USGS	Topographic mapping (24K, 100K)
Digital Elevation Model	✓					C	USGS	National Elevation Dataset
Geodetic Control			✓			N/A		Not needed for this analysis
(5) Demographic Data								
Census Blocks	✓					C	FEMA (Census)	
Population Data	✓					C	FEMA (Census)	Also DC Community Health Assessment
Census Tracts	✓					C	FEMA (Census)	
(6) Land Use								
Land Use			✓			P	USGS	National Land Cover Dataset, low resolution and dated
Zoning			✓			P	DCPD-GIS	
Urban Core Planning Areas			✓			N/A		Not needed for this analysis
Neighborhood Planning Areas			✓			N/A		Not needed for this analysis
Parks and Recreation Areas			✓			P	CUGIR/Census/ESRI	
Soils			✓			N/A		Not needed for this analysis
(7) Imagery and Scanned Maps								
BW Orthophotos			✓			N/A		Not needed for this analysis
Color Orthophotos			✓			N/A		Not needed for this analysis
Scanned Flood Images			✓			M		Not available
(8) Administrative								
Fire Districts			✓			M		
Schools Districts			✓			M		
New York Zip Codes			✓			C	CUGIR/ESRI	
Electric Service Area			✓			C	DCPD-GIS/DCEC	
Gas Service Area			✓			M		
Sewerage Areas			✓			P	DCPD/DCPHD/NYSDOH	
Municipal Service Area			✓					

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Flood (Riverine)								
100 Yr. Flood Boundary Map	✓				Moderately High	C	CUGIR/FEMA	Q3 Data
500 Yr. Flood Boundaries Map	✓					C	CUGIR/FEMA	Q3 Data
Floodway Map		✓				M		
Historical Flood Events of the Area		✓				P	Various	NOAA NCDC, NWS, FEMA Studies
Base Flood Elevation	✓					P		
Inundation Mapping	✓					M		
Flood Models						C	HAZUS-MH	
Severe Storm (wind, including hurricane and tornado)								
Baseline Wind speed Data (3 second gust) Maps (MRP = 100, 500, 1000 yrs)	✓				Moderately High	C	Various	NOAA NCDC, NWS, FEMA
Historical Hurricane Events and Tracks for the Area	✓					C	ESRI	
Probability Frequency of CAT 1- CAT 5 Storms	✓					C	Various	NOAA NCDC, NWS, FEMA
ASCE Design Wind speed.	✓					C	NYBOC	
Historical Tornado Events and Track Map	✓					P	Various	NOAA NCDC, NWS, FEMA
Probability Frequency of F1-F5 Storms	✓					P	Various	NOAA NCDC, NWS, FEMA
Surface Roughness	✓					C	HAZUS-MH	
Historical Windstorm Events for the Area	✓					P	Various	NOAA NCDC, NWS, FEMA
Historical Hail Events and Strike Map	✓					P	Various	NOAA NCDC, NWS, FEMA
Probability Frequency and Intensity of Different Storms: Hail Size, Duration, and Number of Hails per square foot	✓					P	Various	NOAA NCDC, NWS, FEMA
Ice Jam								
Historical Ice Jams for the Area			✓		Mod. High	C	USACE-CRREL	
Probability for Ice Accumulation			✓			P	Various	NOAA NCDC, NWS
Severe Winter Storm								
Historical Winter Storms for the Area			✓		Mod. High	C	Various	NOAA NCDC, NWS, FEMA
Probability for Ice Accumulation			✓			P	Various	NOAA NCDC, NWS
Extreme Temperatures								
Historical Temperature for the Area			✓		Mod. High	C	NWS	
History of Past Extreme Temp. Events (date, \$loss, deaths, duration, severity)			✓			C	Various	NOAA NCDC, NWS, DCPHD, NYSDOH
Ice Storm								
Historical Ice Storms for the Area			✓		Mod. Low	C	Various	NOAA NCDC, NWS, FEMA
Probability for Ice Accumulation			✓			P	Various	NOAA NCDC, NWS
Infestation (agricultural and disease-carrying insects)								
Historical Infestation Events for the Area			✓		Mod. Low	P	Various	DCPHD, NYSDOH, CDC, CCE, USDA
Relevant Land Cover			✓			P	USGS	National Land Cover Dataset, low resolution and dated
Wildfire								
Historical Urban Woodland Wildfire Occurrence in the Area (data, location, area burned, \$ loss, casualties)	✓				Mod. Low	P	DC and Local FDs	
Historical Rainfall for the Area	✓					C	NWS, NOAA	
Vegetative Cover (fuel maps)	✓					P	USCS, USDA-SCS	National Land Cover Dataset, low resolution and dated

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Epidemic (agricultural)								
Historical Information on Outbreaks			✓		Mod. Low	C	Various	DCPHD, NYSDOH, CDC, CCE, USDA
Drought								
History of Regional Drought Conditions (date, \$ loss, severity, duration)			✓		Mod. Low	P	Various	NOAA NCDC, NWS
Historical Rainfall for the Area			✓			C	NWS	
Crop Typology			✓			M	CCE, USDA	
Dam Failure								
Historical Dam Overtopping with Elevation			✓		Mod. Low	P	FEMA/DCDES	
Dam Failure Inundation Map	✓					M		
Historical Water Elevations for Dam			✓			M		
Historical Rainfall for the Area			✓			C	NWS, NOAA	
Historical Discharge for the Dam			✓			M		
Water Supply Contamination								
Historical Information on Water Supply Contamination			✓		Mod. Low	P	DCPHD, NYSDOH	
Watershed Protection Areas			✓			C	DCPD-GIS, NYCDEP	
(1) Transportation Systems								
Highway Systems (roads)	✓					C	HAZUS-MH (Census), DCPD-GIS	
Highway Systems (bridges,tunnels)	✓					P	HAZUS-MH (Census), DCPD-GIS	
Railway Systems (rails, tunnels, bridges)	✓					P	HAZUS-MH and CUGIR (Census), DCPD-GIS	
Ports and Harbor Facilities	✓					N/A		
Airport Facilities and Runways	✓					N/A		
Public Transportation System Facilities	✓					N/A		
Light Rail Systems (facilities, tracks, bridges, tunnels)	✓					N/A		
(2) Utility/Infrastructure								
Wastewater Facilities and Pipelines	✓					P	DCPD-GIS, NYSDOH, DCPHD	
Potable Water Facilities and Pipelines	✓					P	DCPD-GIS, NYSDOH, DCPHD	
Natural Gas Facilities and Pipelines	✓					P	The Pipeline Group	
Crude and Refined Oil Facilities and Pipelines	✓					N/A		
Electric Power Facilities and Transmission Lines	✓					P	HAZUS-MH	
Communication Facilities and Lines	✓					P	HAZUS-MH	

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Critical and Essential Facilities								
Medical Care Facilities (hospitals, clinics, and laboratories)	✓					C	DCPD-GIS, DCPHD	
Nursing Homes and Assisted Living	✓					P	DCPD-GIS, DCPHD	
Schools (elementary, secondary, and university)	✓					C	DCPD-GIS, DCPHD	
Shelters (including schools used as shelters)	✓					C	DCPD-GIS, DCPHD	
Police Stations	✓					C	DCPD-GIS, DCDES, LP, LF	
Fire Stations	✓					C	DCPD-GIS, DCDES, LP, LF	
Emergency Operation Centers	✓						DCPD-GIS, DCDES	
Military Facilities	✓					N/A		
Nuclear Facilities	✓					N/A		
Dams	✓					C	USACE, DCPD-GIS	
Levee Systems	✓					P	DCPD	
Facilities Containing Hazardous Materials	✓					P	DCPD, HAZUS-MH, USEPA	
Building Inventory								
Residential	✓					C	HAZUS-MH (Census), DCPD-GIS, DCPHD, NYSDOH	
Commerical	✓					C	HAZUS-MH (Census), DCPD-GIS	
Industrial	✓					C	HAZUS-MH (Census), DCPD-GIS	
Agricultural	✓					P	HAZUS-MH (Census), DCPD-GIS	
Government	✓					C	HAZUS-MH (Census), DCPD-GIS	
Assessor Data	✓					C	DCPD-GIS	

Notes:

CCE	Cornell Cooperative Extension	LF	Local Fire
CDC	Center for Disease Control	LP	Local Police
CRREL	Cold Region Research and Engineering Laboratory	NCDC	National Climate Data Center
CUGIR	Cornell University Geographic Information Repository	NOAA	National Oceanic and Atmospheric Association
DCDES	Delaware County Department of Emergency Services	NWS	National Weather Service
DCEC	Delaware County Electric Cooperative	NYCDEP	New York City Department of Environmental Protection
DCPD	Delaware County Planning Department	NYSDOH	New York State Department of Health
DCPHD	Delaware County Public Health Department	SCS	Soil Conservation Service
ESRI	Environmental Science and Research Institute	USACE	United States Army Corps of Engineers
FEMA	Federal Emergency Management Agency	USDA	United States Department of Agriculture
GIS	Geographic Information System	USGS	United States Geographical Survey
HAZUS-MH	Hazards US - Multi-Hazard (FEMA)		