

APPENDIX F: DATA SUMMARY MATRIX AND HAZARD EVENT DATA TABLES

This appendix presents data compiled and analyzed to support the Hazard Mitigation Plan.

	Critical	Desirable	Non-HAZUS Desirable	Available	Hazard Priority	C = Complete P = Partial M = Missing	Source/Date	Comments
(1) Political Boundary								
Village Boundary			✓	Yes	N/A	C	WC GIS	
NY Counties			✓	Yes	N/A	C	ESRI	Generalized NY county outlines from ESRI (2001)
(2) Base Map (Planimetric Data)								
Building Footprints/Points			✓	Yes	N/A	P	WC GIS	Buildings (no attributes).
Parcel and Lot lines			✓	Yes	N/A	M		
Landmarks			✓		N/A		CUGIR - from Census 2000	
(3) Hydrographic								
Rivers, Creeks, Stream Centerlines	✓			Yes	N/A	C	WC GIS	
Lakes, Ponds, and Bodies of Water	✓			Yes	N/A	C	WC GIS	
Wetlands			✓	Yes	N/A	C	WC GIS	
Drainage Basins	✓			Yes	N/A		WC GIS	
Impaired Water				Yes	N/A			
(4) Hypsographic								
Contour Lines	✓			Yes	N/A			
USGS Topographic Quads			✓	Yes	N/A	C	USGS	All 24K scale topo quads, with collar.
Digital Elevation Model	✓			Yes	N/A	C	USGS	10m DEMs from USGS Seamless
(5) Demographic Data								
Census Blocks	✓			Yes	N/A		WC GIS; CUGIR - from Census 2000	
Census Tracts	✓			Yes	N/A		WC GIS; CUGIR - from Census 2000	
(6) Land Use								
Land Use / Land Cover			✓	Yes	N/A	C	WC GIS	
Zoning			✓	Yes	N/A			
Urban Core Planning Areas			✓	?	N/A			
Neighborhood Planning Areas			✓	?	N/A			
Parks and Recreation Areas			✓	Yes	N/A		WC GIS	
Soils			✓	Yes	N/A		USDA	Available from USDA-SCS as SSURGO or STATSGO, when needed.
(7) Imagery and Scanned Maps								
Orthophotography			✓	Yes	N/A		WC GIS	
Scanned Flood Images			✓	?	N/A			
(8) Administrative								
Fire Districts			✓	Yes	N/A	C	WC GIS	

	Critical	Desirable	Non-HAZUS Desirable	Available	Hazard Priority	C = Complete P = Partial M = Missing	Source/Date	Comments
Schools Districts			✓	Yes	N/A	C	WC GIS	
New York Zip Codes			✓	Yes	N/A	C	ESRI, CUGIR	
Electric Service Area			✓	?	N/A	M		
Gas Service Area			✓	?	N/A	M		
Sewerage Areas			✓	?	N/A	C	WC GIS	
Municipal Service Area			✓	?	N/A	M		
Flood (Riverine)								
FIRM Flood	✓			Yes	Medium- High	C	WC GIS	Q3
Historical Flood Events of the Area		✓		Yes		P	Various	Textual Documentation
Base Flood Elevation	✓			Yes			FEMA FIRM	Can be obtained from FEMA as unregistered TIFF images.
Inundation Mapping	✓			?		M		
Earthquake								
					N.A.			Earthquake hazards are not considered a significant risk in the Broome County area.
Hurricane Winds								
Baseline Wind speed Data (3 second gust) Maps (MRP = 100, 500, 1000 yrs)	✓			?	Medium - Low	M		N/A
Historical Hurricane Events and Tracks for the Area	✓			Yes		P	HAZNY; NOAA	Textual Documentation; Tabular data from NOAA NCSC Storm Events Database
Probability Frequency of CAT 1- CAT 5 Storms	✓			Yes		C	NOAA	Can be estimated from NOAA NCSC Storm Events Database data
Tornado Winds								
ASCE Design Wind speed.	✓			Yes	Medium - Low	M	ASCE	
Historical Tornado Events and Track Map	✓			Yes		P	HAZNY; NOAA	Textual Documentation; Tabular data from NOAA NCSC Storm Events Database
Probability Frequency of F1-F5 Storms	✓			Yes		C	NOAA	Can be estimated from NOAA NCSC Storm Events Database data
Surface Roughness	✓			?		M		
Windstorm								
Wind speed Data (3 second gust) Maps (MRP = 100, 500, 1000 yrs)	✓			Yes	Medium- High	P	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
Historical Windstorm Events for the Area	✓			Yes		P	HAZNY; NOAA	Textual Documentation; Tabular data from NOAA NCSC Storm Events Database
Hailstorm								
Historical Hail Events and Strike Map	✓			Yes	Medium- High	P	NOAA	Tabular data from NOAA NCSC Storm Events Database. Hailstorms may be covered under Severe Winter Storms
Probability Frequency and Intensity of Different Storms: Hail Size, Duration, and Number of Hails per square foot	✓			Yes		C	NOAA	Can be estimated from NOAA NCSC Storm Events Database data
Wildfire								
Historical Wildfire Occurrence in the Area (data, location, area burned, \$ loss, casualties)	✓			Yes	Medium-Low Woodland Fires not Identified in HAZNY	P	HAZNY	Textual Documentation
Historical Rainfall for the Area	✓			Yes		M	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
Vegetative Cover (fuel maps)	✓			Yes		P	NYDEC	We have land cover data.
Severe Winter Storm (Snow)								
Historical Winter Storms for the Area			✓	Yes	Medium-Low Woodland Fires not	C	HAZNY; NOAA	Textual Documentation; Tabular data from NOAA NCSC Storm Events Database
Probability for Ice Accumulation			✓	Yes		C	NOAA	Can be estimated from NOAA NCSC Storm Events Database data

	Critical	Desirable	Non-HAZUS Desirable	Available	Hazard Priority	C = Complete P = Partial M = Missing	Source/Date	Comments
Drought								
History of Regional Drought Conditions (date, \$ loss, severity, duration)			✓	Yes	Low (Not identified in HAZNY analysis)	M	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
Historical Rainfall for the Area			✓	Yes		M	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
Crop Typology			✓	Yes		P	Cornell Ext. & USDA	LULC has agricultural areas mapped; USDA and Cornell Extension have provided tabular data on crop yields
Extreme Temperatures								
Historical Temperature for the Area			✓	Yes	Low (Not identified in HAZNY analysis)	M	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
History of Past Extreme Heat Events (date, \$loss, deaths, duration, severity)			✓	Yes		M	Various	Available from Cornell, NOAA, and other sources - will obtain appropriate data once actual needs are identified.
Epidemic								
Historical Information on Outbreaks			✓	Yes	Medium-High	M	NYSDOH: CDC	
(1) Transportation Systems								
Highway Systems (roads)	✓			Yes	N/A	C	HAZUS; WC GIS	Highway segment (Rt 9, 9A); Street Centerline
Highway Systems (bridges)	✓			Yes	N/A	P	HAZUS	Point shapefile.
Highway Systems (tunnels)	✓				N/A	N/A	HAZUS	No tunnels in HAZUS
Railway Systems	✓			Yes	N/A	C	HAZUS; WC GIS	Railway segement in HAZUS; Rail line (WC GIS)
Ports and Harbor Facilities	✓			N/A	N/A	N/A	HAZUS	No port info in HAZUS
Airport Facilities and Runaways	✓			Yes	N/A	N/A	HAZUS	No airport info in HAZUS
Public Transportation System (facilities, bus stops)	✓			Yes	N/A	N/A	HAZUS	No bus info in HAZUS
Light Rail Systems (facilities, tracks, bridges, tunnels)	✓				N/A	N/A	HAZUS	No lightrail systems in HAZUS
(2) Utility/Infrastructure								
Wastewater Facilities and Pipelines	✓			Yes	N/A	C	WC GIS; BM	Sewer Districts; Sanitary Pump Stations (BM)
Potable Water Facilities and Pipelines	✓			Yes	N/A	P	WC GIS; BM	Water Districts (WC GIS); Pump Station empty (BM)
Natural Gas Facilities and Pipelines	✓				N/A	N/A	HAZUS	No natural gas facilities/pipelines in HAZUS
Crude and Refined Oil Facilities and Pipelines	✓				N/A	N/A	HAZUS	No oil facilities in HAZUS
Electric Power Facilities and	✓				N/A	N/A	HAZUS	No electric power facilities in HAZUS
Transmission Lines	✓				N/A	M		
Communication Facilities and Lines	✓				N/A	N/A	HAZUS	No communication facilities in HAZUS
Steam Facilities and Lines	✓				N/A	M		

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Critical Facilities								
Medical Care Facilities (hospitals, clinics, and laboratories)	✓			Yes	N/A	M	HAZUS; WC GIS	No hospitals according to HAZUS and WCGIS.
Nursing Homes and Assisted Living	✓			Yes	N/A	M	WC GIS	Limited attribution from WC GIS (need age, construction, backup power, value). Other facilities identified in the WC Databook and personal communication.
Schools (elementary and secondary), and university)	✓			Yes	N/A	C	HAZUS; WC GIS	Limited attribution from WC GIS (need age, construction, backup power, value).
Schools (university)	✓			Yes	N/A	N/A	WC GIS	No universities according to WC GIS.
EMS	✓			Yes	N/A	P		
Police and Fire Stations and Zones	✓			Yes	N/A	P		
Police Stations	✓			Yes	N/A	C	HAZUS; WC GIS	From Police Stations in Westchester county. Limited attribution (need age, construction, backup power, value).
Fire Stations	✓			Yes	N/A	C	HAZUS; WC GIS	From Fire Stations in Westchester county. Limited attribution (need age, construction, backup power, value).
Emergency Operation Centers	✓				N/A	M	HAZUS	No EOC in HAZUS
Community Facilities						M		
Dams	✓			Yes	N/A	C	National Inventory of Dams	http://crunch.tec.army.mil/nid/webpages/nid.cfm No dams in HAZUS
Levee Systems	✓				N/A	C	HAZUS	No levees in HAZUS
Facilities Containing Hazardous Materials	✓				N/A	C	WC GIS	
Building Inventory								
Tax District Data	✓				N/A			
Misc								

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Tornado (Countywide)	Sept. 1, 1974	NOAA-NCDC Storm Query (1950 - 2005)	An F1 tornado impacted Westchester County, resulting in \$250,000 in property damages
Flooding event (Countywide)	Sept. 1974	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	No information available.
Flooding event (Countywide)	July 1975	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	No information available.
Flooding event (Countywide)	January 1976	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	No information available.
Lightning	1977	USA Today Weather Guys March 2006	According to Bob Swanson and Doyle Rice (also known as “The Weather Guys”) of USA Today, in 1977 lightning struck a key electrical transmission line near Indian Point in Westchester County of southeastern NYS plunging New York City into darkness. Looting resulted in \$1 billion in losses during the massive 24-hour blackout (USA Today, 2006 http://blogs.usatoday.com/weather/weather_history/index.html).
Severe Storms/TSTM/ Wind/Lightning (Countywide)	Sept. 22, 1975, Aug. 11, 1971, Jul. 9, 1997	SHELDUS Database	\$25,208,064.52 in prop damages and 3 fatalities throughout the county. Main event occurred on Sept. 22, 1975.
Landslide (Countywide)	Jan. 21, 1988	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	A rock fall occurred on NYS Thruway near Tarrytown in Westchester County. 1 fatality occurred.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Flooding (Briarcliff Manor)	January 1, 1978 to April 30, 2006	FEMA National Flood Insurance Program – Loss Statistics (4-30-06)	45 losses with 36 closed losses, with a total payment of \$687,833.82
Flooding (Countywide)	August 1990	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	\$3.5 million in damages/losses
Winter Storm (Southeast New York State)	Dec. 21, 1992	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	FEMA Disaster #: DR-974. Total Eligible Damages = approx. \$31 million
Blizzard (Statewide)	Mar. 17, 1993	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	FEMA Disaster #: EM-3107. Total Eligible Damages = approx. \$8.5 million
Blizzard (Countywide)	January 7-9 and January 12-13, 1996	Governor Pataki Announcement - February 2, 1997. - http://www.ny.gov/governor/press/97/feb19_2_97.html	Governor Pataki Announces \$4.2 Million in Blizzard 96 Relief Aid. Village of Briarcliff Manor received in Disaster funding \$20,757
Blizzard (Multi-County)	January 1996	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	Disaster Declaration DR-1083 - Multi-county, including Westchester County. Total Eligible Damages = approx. \$21.3 million

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Flooding (Countywide)	May 9-11, 1996	Northeast Regional Climate Center – Cornell (http://www.nrcc.cornell.edu/climate/Impacts_05-96.html)	Flooding and High Winds on the 9-11 th : On the 11th, damaging winds were reported in Orange, Westchester, Rockland, Putnam, Ulster, Dutchess, and Columbia Counties. Heavy rains flooded a parkway in Westchester County, NY.
Flooding – Nor'Easter (Countywide)	October 19- 20, 1996	Governor Pataki Announcement – Dec, 18, 1996 (http://www.ny.gov/governor/press/older_years/decc18.html)	Governor George E. Pataki announces that New York's request for federal public assistance funding for Suffolk and Westchester counties for damages incurred during the October 19-20 Nor'easter has been approved by President Clinton. Public assistance funding was for infrastructure repairs on November 2. Preliminary damage assessments for those two counties tot al more than \$3.5 million. Public assistance covers damage to roads, bridges and other county and local facilities, including buildings. Governor Pataki took the action in the wake of the worst Nor'easter to strike the region in years, causing widespread flooding and even canceling the opening game of the World Series. The federal approval also includes hazard mitigation funds assistance for Westchester County
Flooding (Countywide)	November 1996	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	Disaster Declaration DR 1146. Severe coastal storm, flooding/wind in Westchester and Suffolk counties. Total eligible damages: \$16.1 million.
Flooding (Countywide)	N/A	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	Westchester County – 617 NFIP repetitive flood loss properties. Ranked fourth in State for experiencing most losses.
Hazardous Materials (In Transit)	July 16, 1990	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 9004187 A spill occurred along the Rt. 9 in Scarborough of Briarcliff Manor. 75 gallons of diesel fuel was released which resulted in an impact to nearby soils. The release was caused by a commercial vehicle in a traffic accident along the roadway.
Hazardous Materials (In Transit)	February 11, 1991	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No.9011823 A spill occurred on Rt. 9 at the Sleepy Hollow Country Club. 50 gallons of No. 2 fuel oil was released from a tank truck as a result of an equipment failure. The release impacted nearby soils.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Hazardous Materials (In Transit)	June 23, 1995	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 9503630 A spill occurred within the roadway near 245 Scarborough Road. An unknown amount of an unknown petroleum product was released which resulted in an impact to nearby soils. The release was caused by an equipment failure from a commercial vehicle.
Hazardous Materials (In Transit)	July 16, 1999	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 9904493 A spill occurred at the junction of Route 9A and Pleasantville Road in Briarcliff Manor. A unknown amount of an unknown material was released which resulted in an impact to nearby soils. The release was from a commercial vehicle along the roadway.
Hurricane Floyd (Countywide)	Sept. 16, 1999	FEMA Emergency Declaration – DR 1296	From the 1,859 registrations received from Westchester County, 921 Disaster Housing grants, totaling \$1,682,634 and 104 IFG grants, totaling \$114,902 have been approved.
Hurricane Floyd (Countywide)	Sept. 16, 1999	FEMA Emergency Declaration – EM 3149	Westchester County was given an Emergency Declaration by FEMA as a result of Hurricane Floyd
Hurricane Floyd (Countywide)	Sept. 16-17, 1999	NOAA-NCDC Storm Query (1950 - 2005)	\$6.6 million in damages to County. Description: Torrential record rainfall, which caused serious widespread urban, small stream, and river flooding, preceded the remnants of Hurricane Floyd, which passed over Western Suffolk County of Long Island from 7 pm to 9 pm on September 16th. Property Damage: Orange, Putnam, Rockland, and Westchester Counties were declared disaster areas. For these 4 counties, the initial cost estimates were \$14.6 million dollars. These figures represents "eligible" costs for disaster payments, and were provided by the New York State Emergency Management Office. They represent a "fraction" of the costs that were actually incurred. Urban Flooding: Serious widespread flooding of low-lying and poor drainage areas resulted in the closure of many roads and basement flooding across the entire region. Stream and River Flooding: In Westchester and Bronx Counties, the Saw Mill and Bronx Rivers overflowed their banks and caused serious widespread urban flooding. Rainfall Amounts: The axis of heaviest rain was oriented from southwest to northeast and extended from Central NJ northeast across the Lower Hudson Valley of Southeast NY and Southwest CT. Maximum rainfall rates from 1 to around 2 inches per hour lasted for at least 3 consecutive hours across parts of the Lower Hudson Valley from 2 pm until 6 pm on the 16th. Here are selected rainfall amounts for: Westchester County: from 5.03 inches at Tuckahoe to 12.55 inches at Granite Springs. At Westchester County Airport, 6.26 inches was measured. Winds: Strong and gusty winds combined with torrential rain downed many trees, tree limbs, and power lines across the area. Significant power outages resulted. Most wind gusts were from 50 to 60 mph from around 1:30 pm on the 16th to around 2 am on the 17th.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Hurricane Floyd (Countywide)	Sept. 1999	Governor Pataki Announcement - February 14, 2000 - http://www.ny.gov/governor/press/00/feb14_00.htm	GOVERNOR PATAKI ANNOUNCES 'FLOYD' DISASTER PAYMENTS - More than \$7 Million in Disaster Aid for Eastern New York Communities. Briarcliff Manor Union Free School District, \$27,109.28;
Hurricane Floyd (Countywide)	Sept. 1999	Governor Pataki Announcement - February 23, 2000 - http://www.ny.gov/governor/press/00/feb23_1_00.htm	Governor Announces "Floyd" Disaster Payments, More than \$1.5 Million in Recovery Aid to 34 New York Municipalities. FEMA has approved the following payments for municipalities and entities impacted by Tropical Storm Floyd: Westchester County: Village of Briarcliff Manor, \$513,394.73.
Hurricane Floyd (Countywide)	Sept. 1999	Governor Pataki Announcement - March 29, 2000 - http://www.ny.gov/governor/press/00/march29_00.htm	GOVERNOR PATAKI ANNOUNCES \$9.1 MILLION FOR 'FLOYD' ASSISTANCE. 166 Municipalities and Entities Statewide to Receive Disaster Aid for Storm Recovery. Westchester County: Village of Briarcliff Manor, \$384,464.91
Hurricane Floyd (Briarcliff Manor)	Sept. 1999	Kimberly Venzke – Pace University ("Recipe for Disaster – Just Add Water") – Sept. 21, 1999	Hurricane Floyd resulted in flooding of the Campus Center kitchen at Pace University. Three inches of water flooded the Kitchen. Damage was minimal. The boiler room was damaged which affected several of the burners and the freezer and steam tables were not working. Apparently a similar episode took place during an event 15 years prior (1984). The Village of Briarcliff Manor issued a warning to residents urging them to boil water before use or to use bottle water, due to the potential for water contamination. Run-off from the storm contaminated water in the entire Village.
Hazardous Materials (In Transit)	November 2, 1999	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 9909399 A spill occurred at the Scarborough Station of the Metro North Railway (Hudson Line). A unknown amount of an unknown material was released which resulted in an impact to nearby surface water (Hudson River). The cause of the release was unknown.
Hazardous Materials (In Transit)	April 16, 2000	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 0000616 A spill occurred on a Briarcliff Road cross street (Route 9A Southbound) in Briarcliff Manor. 15 gallons of gasoline was released which resulted in an impact to nearby soils. The release was caused by a tank truck in a traffic accident.
West Nile Virus Threat (Countywide)	July-Aug. 2000	FEMA Emergency Declaration – EM 3155	West Nile virus outbreak took place during the summer of 2000.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Flooding (Countywide)	Dec. 17-19, 2000	USACE North Atlantic Division - Water Control Management Report - Jan. 2002	Rainfall event that caused flooding in Westchester County
Hazardous Materials (In Transit)	January 10, 2001	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 0011111 A spill occurred at the Scarborough Station of the Metro North Railway. A unknown amount of an unknown petroleum product was released which resulted in a impact to nearby soil. The cause of the release was unknown.
Drought (Countywide)	Nov. 2001 through Dec. 2002	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	Drought Region 2 - Drought occurrence that affected Westchester County. Property or crop damage amount is unknown. The combined storage in the New York City water supply reservoir system was 41% of capacity (normal for that time is 71%)
Drought (Countywide)	Apr. through Oct. 2002	NY SEMO Comprehensive Emergency Management Plan – New York State Multi-HMP – Sept. 2004	Drought Region 2 - Drought occurrence that affected Westchester County. Property or crop damage amount is unknown. Groundwater and water storage facilities were below normal. The New York City reservoir system reached a low of 64.5 %, which was 34% below normal.
Flooding (Countywide)	Jun. 17, 2001	USACE North Atlantic Division - Water Control Management Report - Jan. 2002	Flooding occurred in low Westchester county as a result of about 4 inches of rain that fell on Westchester County.
West Nile Virus (Briarcliff Manor)	July, 2002	Westchestergov.com - News Release July 30, 2002	Crow found in Briarcliff Manor Tests Positive for West Nile Virus
West Nile Virus (Briarcliff Manor)	Sept. 2002	Westchestergov.com - News Release Sept. 27, 2002	Three mosquito pools tested positive, which were collected in Briarcliff Manor, Yonkers and Rye on Sept. 13 and 18.
Snowstorm (Countywide)	Feb. 17-18, 2003	FEMA Emergency Declaration – EM 3184	The declaration covers jurisdictions with record and near-record snowfall from the storm that occurred February 17-18, which included Westchester County.
Snowstorm (Countywide)	Feb. 17-18, 2003	NOAA – NCDC event detail	Multiple counties – Heavy Snow resulting in \$20 million in damages. Westchester County: from 14.5 inches at Croton On Hudson to 26.0 inches at Thornwood.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Snowstorm	December 5, 2003	Richard Grumm – NWS “A Megalopolitan Snowstorm of 5-7 December 2003”	Over 20 inches of snow was documented for Westchester County, New York.
Hazardous Materials (In Transit)	November 17, 2004	NYSDEC - Spill Incident Database (1978 – 2006)	Spill No. 0409231 Accident on Route 9A and North State Street in Briarcliff Manor. A gallon of an unknown petroleum product was released into nearby surface water along the roadway. The release was caused by a commercial vehicle in a traffic accident.
Severe Storms and Flooding (Countywide)	Apr. 2005	FEMA Disaster Declaration – DR 1589	FEMA has approved \$76,136 in public assistance reimbursements for Westchester County.
Extreme Temperatures	May 3-17, 2005	U.S. Small Business Administration (SBA) Declarations #10293	Extreme and unseasonably cold temperatures, frosts and freezes that occurred in Westchester County between May 3 - 17, 2005
Drought	Jun. 1, 2005 through Oct. 15, 2005	U.S. Small Business Administration (SBA) Declarations #10402	Drought that occurred throughout the County on June 1, 2005 through October 15, 2005
Drought	Jun. 1, 2005 through Oct. 6, 2005	DisasterHelp.gov	Secretarial designation S2203 for Westchester County (contiguous). Combined effect of excessive precipitation, drought excessive heat and high humidity
Drought	Jun. 1, 2005 through Oct. 15, 2005	DisasterHelp.gov	Secretarial designation S2260 for Westchester County (contiguous).
Flooding (Countywide)	Oct. 7, 2005	U.S. Small Business Administration (SBA) Declarations #10336	Excessive rain, high winds, flooding and flash flooding that occurred in Westchester County on Oct. 7, 2005 and continuing.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Flooding	Jan. 18, 2006	The Journal News - http://www.lohud.com/legacy/blogs/stormcoverage.html	Westchester County road closing update. Major roads closed as of midday, according to Westchester County, include: The Saw Mill River Parkway is closed in both directions between exits 27 and 29 in Mount Pleasant because of flooding and closed in both directions at Route 120 in New Castle. The northbound ramp at exit 25 to Route 9A is closed. The southbound Bronx River Parkway is blocked at Oak Street in Yonkers/Mount Vernon because of a downed tree. A traffic light is out at Virginia Road on the Bronx River, so there is no crossing traffic. Exit 17, North Avenue, on the northbound Hutchinson River Parkway is closed. Exit 2 on southbound I-684, Westchester County Airport, is closed. Route 118 is closed in both directions at Hanover Street in Yorktown. In Somers, 118 is closed southbound at Granite Springs Road. Route 22 is closed in both directions at Seminary Road in Bedford. 22 is also closed in both directions at Bedford Center Road. Route 448 in Mount Pleasant is blocked in both directions near Route 117. Also, traffic is being diverted from the northbound Taconic Parkway to the Saw Miller River Parkway because of flooding near Marble Avenue.
High winds	Jan. 18, 2006	The Journal News - http://www.lohud.com/legacy/blogs/stormcoverage.html	Westchester County wide update: Westchester County this morning activated its emergency operations center due to high winds of 45 miles per hour expected to last at least through 11 a.m. There were road closings throughout the county due to downed wires, trees and poles. There were scattered power outages throughout the region. Hardest hit are: Tuckahoe, Ossining, Mt. Vernon, Greenburgh, Yorktown, Davenport area of New Rochelle, Battle Hill area in White Plains, Tarrytown, Warburton area in Yonkers. Con Edison reported 16,000 customers without power as of 9 a.m. and the number is climbing. All power is not expected to be restored until tomorrow. Crews are working to restore power.
Flooding (Briarcliff Manor)	Jan. 18, 2006	Storm Coverage News Blog – Lower Hudson http://www.lohud.com/legacy/blogs/stormcoverage.html	Chappaqua Road in Briarcliff Manor was closed in both directions at Route 9A. Power outages through Westchester occurred.
Flooding	Jan. 17, 2006	DisasterHelp.gov	Secretarial designation S2182 for Westchester County (primary county affected). Excessive rain, flooding, flash flooding, extreme and unseasonably cold temps, frosts and freezes.
Flooding and Drought	Jan. 19, 2006	DisasterHelp.gov	Secretarial designation S2204 for Westchester County (primary county affected). Drought and high temperatures, excessive rain, high winds, flooding and flash flooding.

Village of Briarcliff Manor, Westchester County, New York
Natural Hazard Events and Losses

Event	Date	Source/Website	General Information
Snowstorm (Countywide)	Feb. 12, 2006	The Journal News - http://www.nyjournnews.com/apps/pbcs.dll/article?AID=/20060212/UPDATE/602120372&template=printart	Heavy snowfall, strong winds pummel the region - In Westchester County, many vehicles spun out of control in near whiteout conditions. On Route 9A in Briarcliff Manor about 7:30 a.m., cars skidded and struck guardrails. Along the Sprain Brook Parkway near Interstate 287 disabled cars were awaiting tow trucks. Limited visibility is forcing motorists to slow down to about 30 mph. The weather service warns that winds gusting between 40 and 50 mph could bring down trees and power lines, and temperatures are expected to fall as low as 23 degrees.
Snowstorm	February 2006	New York Times http://www.nytimes.com/2006/02/12/nyregion/12cold-storm.html?ex=1297400400&en=8e1cbf9644d75729&ei=5090&partner=rssuserland&emc=rss	A record amount of snow fell in Central Park in New York today as a major storm inundated the Northeast, closing regional airports, canceling hundreds of flights and for several hours virtually paralyzing normal traffic for city residents who took to the snow-caked streets in snowshoes and skis. The winter storm's high winds, icy snow, thunder and lightning hit much of the mid-Atlantic and New England region. It hit a fairly large area, with accumulations of more than 20 inches of snow in parts of New Jersey, New York and Connecticut. About 16 to 24 inches had been expected throughout the New York region, according to weather forecasters. The National Weather Service described the weather conditions as "a major snowstorm" with winds of up to 50 miles an hour. Consolidated Edison assigned 250 crews to Westchester County, which is typically hard hit during blizzards, to more quickly repair downed power lines.
Tornado (Countywide)	July 12, 2006	New York Times – July 13, 2006 – “Tornado in Westchester Tosses Around Trees and Damages Property” by Lisa Foderaro	A reported tornado touched down in central Westchester County, heavily damaging commercial buildings on Route 9A, knocking down trees and physically lifting a state trooper car and twirling it around. It moved over the Village of Sleepy Hollow, the town of Mount Pleasant (directly south of Briarcliff Manor), and further into the hamlet of Hawthorne. A preschool was evacuated. The tornado also resulted in snapped electrical wires, the evacuation of a preschool, closed roads due to fallen trees, traffic jams from closed roads, and power outages to 4,000 residents in Westchester.
Tornado (Countywide)	July 12, 2006	NWS Public Information Statement - Summary of Event	NOAA's NWS in Upton, NY, confirmed that a tornado produced a damage track approximately 10 miles in length that extended from Grand View-On-Hudson in Rockland County, through Central Westchester county of Southeastern NY and then into North Greenwich in extreme southwestern Fairfield County, CT. The maximum intensity of the tornado was rated as F2. Wind damage caused large trees to uproot and damage to commercial structures. No fatalities occurred a result and only six minor injuries occurred.