

APPENDIX E: JOB AIDS FOR STEP 3



JOB AID 3-1: INVENTORY DATA PROVIDED WITH HAZUS-MH

Inventory Asset Category	Used for HAZUS-MH Model			HAZUS-MH Provided Data Source (Year)	Examples of Potential Local Sources for Data
	EQ	Flood	Hurr		
General Building Stock					
	X	X	X	U.S. Census Bureau and Dun & Bradstreet (2000)	Tax assessors offices, zoning departments, regional and local planning commissions
Essential Facilities					
Medical Care	X	X	X	American Hospital Association (2000)	Electronic Yellow Pages, State EMA, LEPC
Emergency Response	X	X	X	InfoUSA, Inc. (2001)	State EMA, LEPC
Schools	X	X	X	National Center for Education Statistics, Department of Education (2003)	Board of Education, Electronic Yellow Pages
Fire Stations	X	X	X	InfoUSA, Inc. (2001)	State EMA, LEPC, Fire Chief
Police Stations	X	X	X	InfoUSA, Inc. (2001)	State EMA, LEPC, Police Commissioner
HazMat Facilities					
	X	X	X	Toxic Release Inventory Database, EPA (1999)	State EMA, LEPC, Fire Department, State and local environmental organizations
High Potential Loss Facilities					
Dams	X	X	X	National Inventory of Dams, USACE (2003)	Local or regional authorities, State EMA, state and local planning department
Levees	X	X	X	N/A	Local flood mitigation organizations, ASFPM
Nuclear Power Facilities	X	X	X	U.S. Nuclear Regulatory Commission (2003)	Not applicable
Military Installations	X	X	X	N/A	State Reserve Units (to supplement Federal data)

Inventory Asset Category	Used for HAZUS-MH Model			HAZUS-MH Provided Data Source (Year)	Examples of Potential Local Sources for Data
	EQ	Flood	Hurr		
	Transportation Systems				
Highway Segments	X	X	X	Tiger/Line Files, U.S. Census Bureau (2000)	State or local DOT, regional or local planning commissions
Highway Bridges	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Highway Tunnels	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Rail Segments	X	X	X	National Rail Network Database, Bureau of Transportation Statistics (2000)	State or local DOT, regional or local planning commissions
Rail Bridges	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Rail Tunnels	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Rail Facilities	X	X	X	N/A	State or local DOT, regional or local planning commissions
Light Rail Segments	X	X	X	Fixed-Guideway Transit and Ferry Network Database, BOTS, U.S. DOT (2000)	State or local DOT, regional or local planning commissions
Light Rail Bridges	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Light Rail Tunnels	X	X	X	National Bridge Inventory Database, FHWA (2001)	State or local DOT, regional or local planning commissions
Light Rail Facilities	X	X	X	N/A	State or local DOT, regional or local planning commissions
Bus	X	X	X	InfoUSA, Inc. (2001)	State or local DOT, regional or local planning commissions, Electronic Yellow Pages
Port	X	X	X	Port and Waterway Facilities Database, USACE (2000)	State or local DOT, regional or local planning commissions
Ferry	X	X	X	Port and Waterway Facilities Database, USACE (2000)	State or local DOT, regional or local planning commissions, Electronic Yellow Pages
Airport Facilities	X	X	X	BOTS, U.S. DOT (1999)	State or local DOT, regional or local planning commissions, Electronic Yellow Pages
Airport Runways	X	X	X	BOTS, U.S. DOT (1999)	State or local DOT, regional or local planning commissions

Inventory Asset Category	Used for HAZUS-MH Model			HAZUS-MH Provided Data Source (Year)	Examples of Potential Local Sources for Data
	EQ	Flood	Hurr		
Utility Systems					
Potable Water Pipelines	X	X	X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Potable Water Distribution Pipes (by Census tract)	X			EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Potable Water Network System Pumps		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Potable Water Control Vaults and Control Stations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Potable Water Network System Tanks		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Potable Water Network System Wells		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions, well logs (local environmental agency water division)
Potable Water System Facilities	X	X	X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Wastewater Pipelines	X	X	X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State or local water departments, private utilities, regional or local planning commissions
Wastewater Distribution Sewers (by Census tract)	X			EPA Envirofacts Data Warehouse LRT Tool (2001)	State, county, or local sewer commission/department
Wastewater Treatment Plants		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State EMA
Wastewater Vaults and Control Stations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State EMA
Wastewater Lift Stations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State EMA
Wastewater System Facilities	X		X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State EMA

Inventory Asset Category	Used for HAZUS-MH Model			HAZUS-MH Provided Data Source (Year)	Examples of Potential Local Sources for Data
	EQ	Flood	Hurr		
Crude and Refined Oil Pipelines	X	X	X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Oil Refineries		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Oil Pumping Plants		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Oil Tank Farm		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Oil Control Vaults and Control Stations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Crude and Refined Oil Pipeline Facilities	X		X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Natural Gas Pipelines	X	X	X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Natural Gas Distribution Pipes (by Census tract)	X			EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Natural Gas Compressor Plants		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Natural Gas Control Vaults and Control Stations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Natural Gas Facilities	X		X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Electric Power Plants		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Electric Power Substations		X		EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies

Inventory Asset Category	Used for HAZUS-MH Model			HAZUS-MH Provided Data Source (Year)	Examples of Potential Local Sources for Data
	EQ	Flood	Hurr		
Electric Power	X		X	EPA Envirofacts Data Warehouse LRT Tool (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Communication Central Offices and Switching Stations		X		Broadcast Auxiliary Microwave File, FCC (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Communication Vaults and Control Stations		X		Broadcast Auxiliary Microwave File, FCC (2001)	State and local fire departments, environmental agencies, State EMA and LEPC, private companies
Communication Broadcast Facility		X		Broadcast Auxiliary Microwave File, FCC (2001)	Electronic Yellow Pages
Communications	X		X	Broadcast Auxiliary Microwave File, FCC (2001)	Electronic Yellow Pages
Demographics	X		X	U.S. Census Bureau and Dun & Bradstreet (2000)	Regional and local planning commissions Tax assessor's offices, zoning departments, regional and local planning commissions

Notes:

EPA = U.S. Environmental Protection Agency

State EMA = State Emergency Management Agency

FCC = U.S. Federal Communications Commission

LEPC = Local Emergency Planning Committee

DOTS = Bureau of Transportation Statistics

USACE = U.S. Army Corps of Engineers

ASFPM = American Society of Floodplain Managers

DOT = Department of Transportation

FHWA = Federal Highway Administration

LRT = Locational Reference Table

JOB AID 3-2: INVENTORY DATA BY CATEGORY WITH DATA FIELDS

Inventory Category	General Fields		Hazards-Specific Fields	
			Earthquake	Flood
Essential Facilities				
Emergency Response	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Year Built, Number of Stories, Replacement Cost, Backup Power, Shelter Capacity, Building Area, Kitchen, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Design Level, Foundation Type, First Floor Height, Building Damage Fnd, Content Damage Fnd, Flood Protection, BU Power	Hurricane Building Type, Hurricane Scheme Name
Fire Stations	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Year Built, Number of Stories, Backup Power, Shelter Capacity, Building Area, Kitchen, Number of Trucks, Latitude, Longitude, Comment	N/A	N/A	Hurricane Building Type, Hurricane Scheme Name
Medical Care	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Use, Year Built, Number of Stories, Replacement Cost, Backup Power, Number of Beds, AHA ID, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Design Level, Foundation Type, First Floor Height, Building Damage Fnd, Content Damage Fnd, Flood Protection, BU Power	Hurricane Building Type, Hurricane Scheme Name
Police Stations	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Year Built, Number of Stories, Cost, Backup Power, Shelter Capacity, Building Area, Kitchen, Latitude, Longitude, Comment	N/A	N/A	Hurricane Building Type, Hurricane Scheme Name
Schools	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Year Built, Number of Stories, Replacement Cost, Number of Students, Backup Power, Shelter Capacity, Building Area, District, Kitchen, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Design Level, Foundation Type, First Floor Height, Building Damage Fnd, Content Damage Fnd, Flood Protection, BU Power	Hurricane Building Type, Hurricane Scheme Name
High Potential Loss Facilities				
Dams	ID Number, Dam Class, Tract, Name, County Name, Owner, Cost, River, Near City, Distance City, Purpose, Year Completed, Dam Length, Dam Height, Structural Height, Max Discharge, Hydro Height, Max Storage, Normal Storage, Surface Area, Drain Area, Hazard, EAP, Spill Type, Spill Width, Volume, MAT ID, Primary Agency, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None

Inventory Category	General Fields		Hazards-Specific Fields		
			Earthquake	Flood	Hurricane
High Potential Loss Facilities (continued)					
Levees	ID Number, County FIP, County Name, Levee Name, Levee Width, Levee Height, Levee Crest, Normal Height, Owner, River, Near City, Distance City, Year Completed, Hazard, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Military Installations	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Contact, Phone Number, Year Built, Number of Stories, Owner, Shelter Capacity, Use, Building Cost, Content Cost, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Nuclear Power Facilities	ID Number, Building Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Year Built, Number of Stories, Replacement Cost, Latitude, Longitude, Capacity, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Hazardous Materials Facilities	ID Number, Building Class, Tract, Name, Address, City, State, Zip Code, Contact, Cas #, Chemical Name, Chemical Quantity, SIC Code, Year Built, EPA ID, Permit Amount, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Foundation Type, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Transportation Systems					
Highway Segments	Number, Segment Class, County FIP, Name, Owner, Length, Traffic, Cost, Number of Lanes, Pavement, Width, Capacity, Comment	None	None	None	None
Highway Bridges	ID Number, Bridge Class, Tract, Name, Owner, Bridge Type, Width, Number of Spans, Length, Maximum Span Length, Skew Angle, Seat Length, Seat Width, Year Built, Year Remodeled, Pier Type, Foundation Type, Scour Index, Traffic, Traffic Index, Condition, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Elevation	None	None
Highway Tunnels	ID Number, Tunnel Class, Tract, Name, Owner, Type, Width, Length, Year Built, Traffic, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Rail Segments	ID Number, Segment Class, County FIP, Name, Owner, Length, Traffic, Cost, Number of Tracks, Comment	None	None	None	None

Inventory Category	General Fields	Hazards-Specific Fields		
		Earthquake	Flood	Hurricane
Transportation Systems (continued)				
Rail Bridges	ID Number, Bridge Class, Tract, Name, Owner, Bridge Type, Width, Number of Spans, Length, Maximum Span Length, Skew Angle, Seat Length, Seat Width, Year Built, Year Remodeled, Pier Type, Foundation Type, Scour Index, Traffic, Traffic Index, Condition, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Elevation	None
Rail Tunnels	ID Number, Tunnel Class, Tract, Name, Owner, Type, Width, Length, Year Built, Traffic, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None
Rail Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Backup Power, Traffic, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None
Light Rail Segments	ID Number, Segment Class, County FIPS, Name, Owner, Length, Traffic, Cost, Number of Tracks, Comment	None	None	None
Light Rail Bridges	ID Number, Bridge Class, Tract, Name, Owner, Bridge Type, Width, Number of Spans, Length, Maximum Span Length, Skew Angle, Seat Length, Seat Width, Year Built, Year Remodeled, Pier Type, Foundation Type, Scour Index, Traffic, Traffic Index, Condition, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Elevation	None
Light Rail Tunnels	ID Number, Tunnel Class, Tract, Name, Owner, Type, Width, Length, Year Built, Traffic, Cost, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None
Light Rail Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Cost, Backup Power, Traffic, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None
Bus	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Backup Power, Traffic, Latitude, Longitude, Comment	None	None	None
Port	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Backup Power, Cost, Capacity, Number of Berths, Number of Cranes, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None

Inventory Category	General Fields		Hazards-Specific Fields		
			Earthquake	Flood	Hurricane
Transportation Systems (continued)					
Ferry	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Cost, Backup Power, Traffic, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Airport Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Cargo, Number of Flights, Number of Passengers, Backup Power, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Airport Runways	ID Number, Facility Class, Tract, Name, Airport ID, Runway Length, Cost, Capacity, Pavement, Latitude, Longitude, Comment	Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	None	None	None
Utility Systems					
Potable Water Pipelines	ID Number, Pipeline Class, County FIPS, Name, Owner, Material, Diameter, Pipe Length, Joint, Year Built, Cost, Source ID, Comment	None	None	None	None
Potable Water Distribution Pipes	Tract, Ductile Pipe, Brittle Pipe, Total Pipe, Presented by Census tract	None	N/A	None	None
Potable Water Distribution Pipes	ID Number, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Class, Description, Usage, Cost, Year Built, Stories, Year Upgraded, System ID, G Class, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Potable Water Control Vaults & Control Stations	ID Number, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Class, Description, Usage, Cost, Year Built, Stories, Year Upgraded, System ID, G Class, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Potable Water Network System Tanks	ID Number, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Class, Description, Usage, Cost, Year Built, Stories, Year Upgraded, System ID, G Class, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Potable Water Network System Wells	ID Number, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Class, Description, Usage, Cost, Year Built, Stories, Year Upgraded, System ID, G Class, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A

Inventory Category	General Fields		Hazards-Specific Fields		
	Utility Systems (continued)		Earthquake	Flood	Hurricane
Potable Water System Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Cost, System ID, G Class, Backup Power, Year Upgraded, Capacity, Demand, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Flood Protection, Equipment Height, Foundation Type	None	
Wastewater Pipelines	ID Number, Pipeline Class, County FIPS, Name, Owner, Material, Diameter, Pipe Length, Joint, Year Built, Cost, Source ID, Comment		None	None	
Wastewater Sewers	Tract, Ductile Pipe, Brittle Pipe, Total Pipe		N/A	None	
Wastewater Treatment Plants	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Usage, Facility Cost, Year Built, Number of Stories, G Class, System ID, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	
Wastewater Vaults & Control Stations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Usage, Facility Cost, Year Built, Number of Stories, G Class, System ID, Year Upgraded, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	
Wastewater Lift Stations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Usage, Facility Cost, Year Built, Number of Stories, G Class, System ID, Year Upgraded, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	
Wastewater System Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Cost, System ID, G Class, Backup Power, Year Upgraded, Capacity, Demand, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	N/A	None	
Crude and Refined Oil Pipelines	ID Number, Pipeline Class, County FIPS, Name, Owner, Material, Diameter, Pipe Length, Joint, Year Built, Cost, Source ID, Comment	None	None	None	
Oil Refineries	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Cost, System ID, G Class, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	
Oil Pumping Plants	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Year Built, Number of Stories, Cost, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	

Inventory Category	General Fields		Hazards-Specific Fields		
	Utility Systems (continued)		Earthquake	Flood	Hurricane
Oil Tank Farm	ID Number, Facility Class, Tract, Name, Address, City, Zip code, State, Owner, Contact, Phone Number, Description, Use, Year Built, Number of Stories, Cost, Backup Power, Capacity, Demand, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Oil Control Vaults and Control Stations	ID Number, Facility Class, Tract, Name, Address, City, Zip code, State, Owner, Contact, Phone Number, Description, Use, Year Built, Number of Stories, Cost, Backup Power, Capacity, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Crude and Refined Oil Pipeline Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Backup Power, Capacity, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	N/A	None	None
Natural Gas Pipelines	ID Number, Pipeline Class, County FIPS, Name, Owner, Material, Diameter, Pipe Length, Joint, Year Built, Cost, Source ID, Comment	None	None	None	None
Natural Gas Distribution Pipes	Tract, Ductile Pipe, Brittle Pipe, Total Pipe	None	N/A	None	None
Natural Gas Compressor Plants	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Installation Year, Number of Stories, Cost, Backup Power, Capacity, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Natural Gas Control Vaults and Control Stations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Installation Year, Number of Stories, Cost, Backup Power, Capacity, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Natural Gas Facilities	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Number of Stories, Backup Power, Capacity, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	N/A	None	None
Electric Power Plants	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Year Built, Number of Stories, Cost, Capacity, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A
Electric Power Substations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Year Built, Number of Stories, Cost, Capacity, Latitude, Longitude, Comment	N/A	Flood Protection, Equipment Height, Foundation Type	N/A	N/A

Inventory Category	General Fields		Hazards-Specific Fields		
	Utility Systems (continued)		Earthquake	Flood	Hurricane
Electric Power	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Number of Stories, Capacity, Cost, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	N/A	N/A	None
Communication Central Offices and Switching Stations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Cost, Installation Year, Backup Power, Latitude, Longitude, Comment	N/A	None	N/A	N/A
Communication Vaults and Control Stations	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Cost, Installation Year, Backup Power, Latitude, Longitude, Comment	N/A	None	N/A	N/A
Communication Broadcast Facility	ID Number, Facility Class, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Description, Use, Cost, Installation Year, Backup Power, Latitude, Longitude, Comment	N/A	None	N/A	N/A
Communications	ID Number, Facility Class, Tract, Name, Address, City, Zip Code, State, Owner, Contact, Phone Number, Use, Year Built, Cost, Backup Power, Latitude, Longitude, Comment	Anchor, Foundation Type, Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	N/A	None	None
Demographics	Block, Population, Households, Group Quarters, Population Age Distribution, Male Population, Female Population, Race Distribution, Income, Daytime Residency, Night Residency, Hotel, Visitor, Working Com, Working Ind, Commuting 5pm, Number of Home Owners, Number of Renters, Number of Vacant Homes, Building Age, Median Age, Average Rent, Average Value, School Enrollment	None	None	None	None
General Building Stock	Exposure, Count, and Square Footage by General Occupancy, Specific Occupancy, and Building Type	None	None	None	None
User Defined	ID Number, Occupancy, Tract, Name, Address, City, Zip code, State, Contact, Phone Number, Year Built, Cost, Backup Power, Number of Stories, Area, Content Cost, Shelter Capacity, Latitude, Longitude, Comment	Building Type, Building Quality, Design Level, Soil Type, Liquefaction Susceptibility, Landslide Susceptibility, Water Depth	Design Level, Foundation Type, First Floor Height, Flood Protection, County	Wind Building Type, Wind Building Scheme Name	