

Appendix C

Spatial Data Sources

Document Section	Data Analysis	DATA NAME	AGENCY	DATA DESCRIPTION	DOWNLOAD WEBSITE LINK
General	count crossed or within	County Boundary	US Census	Civil County:	https://www.census.gov/geo/maps-data/data/tiger-geodatabases.html
General	count crossed or within	City Boundary	US Census State	City Boundary	https://www.census.gov/geo/maps-data/data/tiger-geodatabases.html
Geology	area within by geologic unit	Geology of the conterminous United States	US Geological Survey	A GIS database of geologic units and structural features for each state, with lithology, age, data structure, and format written and arranged just like the other states. Also a seamless lower 48 state GIS layer.	http://mrdata.usgs.gov/geology/us/
Groundwater	area of aquifer within by type	Principal Aquifers of the 48 Contiguous United States	US Geological Survey	This map layer contains the shallowest principal aquifers of the conterminous United States, Hawaii, Puerto Rico, and the U.S. Virgin Islands, portrayed as polygons. The map layer was developed as part of the effort to produce the maps published at 1:2,500,000 in the printed series "Ground Water Atlas of the United States".	http://water.usgs.gov/GIS/metadata/usgswrd/XML/aquifers_us.xml
Soils	Area within	MLRA Soils Data	Natural Resources Conservation Service	Major land resource areas (MLRAs) are geographically associated land resource units (LRUs). Identification of these large areas is important in statewide agricultural planning and has value in interstate, regional, and national planning. The United States, Caribbean and Pacific Basin Major Land Resource Areas (MLRA) Geographic Database serves as the geospatial expression of the map products presented and described in Agricultural Handbook 296 (2006) located at: ftp://ftp-fc.sc.egov.usda.gov/NSSC/Ag_Handbook_296/Handbook_296_low.pdf.	http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/?cid=nrcs142p2_053624

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Soils	area of STASGO Soils with hydraulic conductivity value	SSURGO Soils Database	Natural Resources Conservation Service	Hydraulic Conductivity was developed from SSURGO data tables as described in the text.	http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/survey/?cid=nrcs142p2_053627
Ecoregion	general length crossed	US Ecosystem Regions	US Environmental Protection Agency		http://www.epa.gov/wed/pages/ecoregions/level_iii_iv.htm
Land Use/Land Cover	area within by land cover code;	National Land Cover	US Geological Survey		http://www.mrlc.gov/nlcd11_data.php
Water Resources	number of streams and lakes within	Impaired Streams and Lakes	US Environmental Protection Agency	Under Section 303(d) of the CWA, states, territories, and authorized tribes (referred to here as states) are required to develop lists of impaired waters. These are waters that are too polluted or otherwise degraded to meet the state water quality standards. The data can be used to identify distribution of impaired waters within each state for causes of impairment of interest.	http://water.epa.gov/scitech/datait/tools/waters/data/downloads.cfm
Water Resources	area of NWI within by type; acrs of overall wetlands by township	National Wetland Inventory	US Fish and Wildlife Services	This data set represents the extent, approximate location and type of wetlands and deepwater habitats in the United States and its Territories. These data delineate the areal extent of wetlands and surface waters as defined by Cowardin et al. (1979).	http://www.fws.gov/wetlands/Data/State-Downloads.html

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Water Resources	number of streams and lakes within	National Hydrography Dataset (Lake and Stream)	US Geological Survey	The USGS National Hydrography Dataset (NHD) is a comprehensive set of digital spatial data that encodes information about naturally occurring and constructed bodies of surface water (lakes, ponds, and reservoirs), paths through which water flows (canals, ditches, streams, and rivers), and related entities such as point features (springs, wells, stream gages, and dams).	http://nhd.usgs.gov/data.html
Special Species and Critical Habitat	count of Critical Habitats crossed crossed by type,	USFWS Critical Habitat	US Fish and Wildlife Services	information regarding Threatened and Endangered Species final Critical Habitat designation across the United States	http://ecos.fws.gov/crithab/
Public Resource and Recreational Lands	count crossed or within, general mapping	Tribal Boundary	US Census	Current Tribal boundary file from US Census	http://catalog.data.gov/dataset?collection_page_id=4f7354b6-de39-42cb-bbbb-960a10e6a405
Public Resource and Recreational Lands	count crossed	NCED Easements	Natural Resources Conservation Service	The national easement geospatial dataset is an aggregate layer of conservation easements received from each state, used to identify, monitor, and enhance the spatial accuracy of restoration program polygons. The dataset is a national layer of conservation easement polygons (or centroids derived from the polygons) that represents where a voluntary, legally binding agreement between landowners and the USDA is located.	http://datagateway.nrcs.usda.gov/
Public Resource and Recreational Lands	count crossed; area within by state	State Resource Lands	Illinois	State Resources Lands: forests, parks, wildlife management areas, natural areas, conservation areas	http://crystal.isgs.uiuc.edu/nsdihome/

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Public Resource and Recreational Lands	count crossed; area within by state	State Resource Lands	Minnesota Department of Natural Resources	State Resources Lands: forests, parks, wildlife management areas, scientific and natural areas, BWSR conservation easements	http://deli.dnr.state.mn.us/
Public Resource and Recreational Lands	count crossed; area within by state	State Resource Lands	Iowa	State Resources Lands: parks, wildlife management areas, conservation areas	
Public Resource and Recreational Lands	count crossed; area within by state	National Forest	U.S. Forest Service	National Forest System	http://data.fs.usda.gov/geodata/edw/datasets.php
Public Resource and Recreational Lands	count crossed; area within by state	State Resource Lands	South Dakota	State Resources Lands: game production areas, parks	http://arcgis.sd.gov/server/sdGIS/Data.aspx
Public Resource and Recreational Lands	count crossed; area within by state	State Resource Lands	North Dakota	State Resources Lands: forests, parks, Game and Fish lands, conservation areas, PLOTS lands	https://apps.nd.gov/hubdataportal/srv/en/main_home
Public Resource and Recreational Lands	count crossed; area within by state	US Federal Lands	US Fish and Wildlife Service, National Park Service	US Federal Lands: National Park Service, USFWS	http://datagateway.nrcs.usda.gov/
Cities and Population Density	population estimate within; population density estimate within	TIGER Census Block Group	US Census	TIGER Census Block Group Data	https://www.census.gov/geo/maps-data/data/tiger-geodatabases.html

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Community Features	count within by type	National Structures Dataset	US Geological Survey	The structures data theme consists of name, function, location, and other characteristics of selected manmade facilities. Types of structures collected are largely determined by the needs of disaster planning and emergency response organizations. Structures data are designed to be used in general mapping	http://viewer.nationalmap.gov/viewer/
Community Features	General Descriptions and Mapping	National Transportation Atlas Databases	Federal Highway Administration	Roads (DOT)	http://www.bts.gov/programs/geographic_information_services/
Community features	count within by type	Airport	Federal Aviation Administration	US FAA airports	https://nfdc.faa.gov/xwiki/bin/view/NFDC/WebHome
Cultural Resources	count within and by type	National Register of Historic Places Public Dataset	National Park Service	The National Register geospatial dataset is intended to be a comprehensive inventory of all cultural resources that are listed on the National Register of Historic Places	http://nrhp.focus.nps.gov/natreg/docs/Download.html#spatial
Contaminated sites	count within or within by type	US EPA Facility Registry Service	United States Environmental Protection Agency (USEPA)	To improve public health and the environment, the United States Environmental Protection Agency (USEPA) collects information about facilities, sites, or places subject to environmental regulation or of environmental interest.	http://www.epa.gov/enviro/geo_data.html
HCA	count crossed; area within; list of areas crossed	High Population Areas	USDOT PHMSA	Populated areas include both high population areas (called "urbanized areas" by the U.S. Census Bureau) and other populated areas (areas referred to by the Census Bureau as a "designated place").	https://www.npms.phmsa.dot.gov/GeneralPublic.aspx

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HCA	count crossed; area within; list of areas crossed by state	Other Population Areas	USDOT PHMSA	Populated areas include both high population areas (called "urbanized areas" by the U.S. Census Bureau) and other populated areas (areas referred to by the Census Bureau as a "designated place").	https://www.npms.phmsa.dot.gov/GeneralPublic.aspx
HCA	count crossed by risk level	Landslide Hazard Risk	USDOT PHMSA	The dataset was designed for use in the study of prioritizing areas of the national pipeline infrastructure that present a higher risk of failure in the event of a natural disaster. This is one of the layers in the National Pipeline Hazard Index. The cell size is one kilometer. Each layer represents a ranking normalized to a scale of 0-100, of the level of exposure to natural hazards where 100 represents the highest ground failure hazard and zero represents the lowest ground failure hazard. The Landslide hazard rank layer is combined with other natural hazard data layers to compute the National Pipeline Hazard Index.	https://www.npms.phmsa.dot.gov/GeneralPublic.aspx
HCA	count crossed; area within; list of areas crossed by state	Drinking Water USAs	USDOT PHMSA	Drinking water sources include those supplied by surface water or wells and where a secondary source of water supply is not available. The land area in which spilled hazardous liquid could affect the water supply is also treated as an HCA.	https://www.npms.phmsa.dot.gov/application.aspx?tact=pimma&page=pimma/about_pimma.htm
HCA	count crossed; area within; list of areas crossed by state	Ecological USAs	USDOT PHMSA	Unusually sensitive ecological areas include locations where critically imperiled species can be found, areas where multiple examples of federally listed threatened and endangered species are found, and areas where migratory waterbirds concentrate.	https://www.npms.phmsa.dot.gov/application.aspx?tact=pimma&page=pimma/about_pimma.htm

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HCA	count crossed by risk level	Flood Hazard Risk	USDOT PHMSA	<p>The dataset was designed for use in the study of prioritizing areas of the national pipeline infrastructure that present a higher risk of failure in the event of a natural disaster. This is one of the layers in the National Pipeline Hazard Index. The cell size is one kilometer. Each layer represents a ranking normalized to a scale of 0-100, of the level of exposure to natural hazards. The Flood Hazard Rank layer is combined with other natural hazard data layers to compute the Natural Pipeline Hazard Index.</p>	https://www.npms.phmsa.dot.gov/GeneralPublic.aspx