

# ENVIRON

## MEMORANDUM

**To:** Tom Moore and Lee Alter, Western Governors Association.  
**From:** Gerard Mansell, Abby Hoats and Zulina Zakaria  
**Date:** 9 May 2005  
**Subject:** Task 1 Summary – Identification of Relevant GIS Data and Sources

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### Introduction

A variety of GIS data are necessary in regional air quality model development and evaluation. These include data required to characterize various features of the land (vegetation, landuse/landcover, soils, etc.), transportation networks (roads, railways, shipping lanes, airports, and marine ports), and socioeconomic data (population, housing statistics). In the development of emission inventories, spatial surrogates are required for allocating regional or county-level emissions to modeling grid cells for air quality modeling. Spatial surrogates are generally dependent on the type of activity that produces the emissions for each source category and can be developed using a variety of GIS databases. In addition, for biogenic, windblown dust and ammonia emissions, the GIS data form the basis for the emissions factors as well as the “activity” data for developing emissions estimates.

GIS data is also used in air quality modeling and analysis, specifically land use data for the estimation of deposition. The evaluation of emission inventories and air quality modeling results can be aided by the analysis of GIS data. Spatial relationships between source regions and underlying geography and demographics may reveal various patterns that can help in the evaluation of modeling results, model performance and emission inventory quality assurance and evaluation. For those emissions sources inherently related to the land characteristics (biogenics, ammonia, windblown dust), GIS data is required and can be used in the determination and assessment of appropriate control strategies and implementation.

Thus, the development and availability of GIS data that is accurate, detailed and representative of the time period for which air quality and emissions modeling is conducted and/or analyzed is of paramount importance. Many recent emission inventories and air quality modeling databases have been developed using data that are outdated by several years, and in some cases, even decades. One of the primary reasons for this is the need for data covering relatively broad geographic areas. However, relatively few GIS databases of this nature with the required attributes are available within the public domain. Thus, the current study seeks to address the need for, and develop, these detailed and up-to-date databases

The overall objective of this study is to develop updated, current year (2000-04) GIS databases for use in air quality and emission inventory development efforts. Specific uses of these data may include the following:

- air quality analysis and support of source attribution/apportionment activities;
- improvement of near-field activity data and analysis of emissions strengths; and
- provide more uniform landuse and demographic data to make temporally consistent regional estimates of biogenics, ammonia, and windblown dust emissions, as well as providing a consistent baseline for area source activity data and planning
- development of appropriate GIS data layers for Canada and Mexico

The purpose of this Technical Memorandum is to summarize the work efforts of Task 1 of the project. GIS data and data sources were identified, tabulated and summarized as part of this task. A review of the tabulated data sets was conducted and a subset of these data was identified for possible additional evaluation. A complete listing of the data is provided as Appendix A.

### **Identification of Relevant GIS Data and Sources**

Updated and recent GIS data and sources were identified under this task based on a number of considerations, primarily the GIS data requirements of the various regional emissions and air quality modeling tools used by WRAP. Data collection efforts were focused on data representing broad geographical regions and recent years (i.e., post-1993, preferably in the 2000-2004 time period). The attributes available in the databases were also a prime consideration.

Data sources were identified primarily through Internet searches of known federal, state and local agencies. For each of the general types of GIS data to be collected and evaluated (e.g., landuse/landcover characteristics, transportation networks, population and housing statistics), the following known sources of data were searched for relevant data:

- Landuse/Landcover
  - USGS
  - Gap Analysis Program (GAP)
  - BLM
  - STATSGO
  - NOAA
  - State GIS Department websites
- Population and Housing
  - US Census Bureau
  - USGS
- Transportation Networks
  - US Census Bureau
  - US Department of Transportation
  - BTS
  - USGS
  - State Departments of Transportation

In addition to on-line data searches, a “Request for Information” was sent out to appropriate state representatives within the WRAP requesting any available datasets and/or contacts that could provide relevant sources of information. These representatives were determined by the WRAP Project Manager who also took the responsibility of distributing the request. All responses received were incorporated into the tabulated data sources for the project. The text of the “Request for Information” is provided below.

#### **Request for Information for GIS Database Sources from WRAP Committees, Forums, and Workgroups**

To assist the WRAP in meeting modeling analysis and regional haze planning information objectives, various Geographic Information Systems (GIS) databases are used in a variety of analyses and model applications. Currently many of these databases are many years old and may not reflect many recent changes in land use and transportation networks. In an attempt to update these databases, the WRAP has contracted with ENVIRON International Corporation to identify, evaluate and assemble current year (2000-04) government-sponsored, publicly-available GIS databases for use in air quality and emission inventory development efforts. A variety of GIS data are necessary in regional air quality model development and evaluation. These include data required to characterize various features of the land (vegetation, landuse/landcover, soils, etc.), transportation networks (roads, railways, shipping lanes, airports, and marine ports), and socioeconomic data (population, housing statistics). Specific uses of these data may include the following:

- air quality analysis and support of source attribution/apportionment activities;
- improvement of near-field activity data and analysis of emissions strengths; and
- provide more uniform landuse and demographic data to make temporally consistent regional estimates of biogenics, ammonia, and windblown dust emissions, as well as providing a consistent baseline for area source activity data and planning
- development of appropriate GIS data layers for Canada and Mexico

The determination of relevant data sources is to be based on a number of considerations, primarily the GIS data requirements of the various regional emissions and air quality modeling tools used by WRAP. In addition, data representing broad geographical regions and for recent years (i.e., post-1993, preferably in the 2000-2004 time period), need to be identified. The attributes available in the databases will also be a prime consideration.

In order to initiate the process of identifying and obtaining relevant GIS data, we ask that you inform us of any such data used by your agency or organization, or any GIS databases you are aware of and may be of use in fulfilling the goals of this project. Your timely response to this request will assist us in identifying those databases most useful to the overall WRAP process, and also will ensure that the most recent and representative data for your jurisdiction is being incorporated into the regional databases used by the WRAP in their on-going analyses in addressing the requirements of the EPA’s Regional Haze Rule.

Your response in this matter is respectfully requested by 8 April 2005 and will be greatly appreciated.

Sincerely,

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## Summary and Recommendations

Table 1 provides a summary of the most promising data sources on a national level. Included are data for landuse/landcover, population and housing statistics, transportation networks, administrative boundaries and various general environmental data. In addition to nation-level data sets, numerous regional, state and local data were identified, as noted in Appendix A. Although these regional and local data may provide considerably more detail than the national data, it is recommended to review and evaluate the data at a national level prior to evaluation of the regional and/or state and local data. These local-scale data will be incorporated into the final GIS databases developed during the project as resources permit.

A number of notable features concerning these data and recommendations regarding the development of updated national GIS databases are as follows:

- The US Census has recently released the Census TIGER Line files for 2003. These data will be reviewed and evaluated as potential replacement for the current 2000 US Census transportation network data.
- The Gap Analysis Program (GAP) has completed landuse/landcover data sets for nearly all states. These data are available from a number of sources and are based on information primarily from the period 1993 through 2000. These data will be evaluated and assembled, as resources allow, into a national-level dataset suitable for use in the various WRAP modeling tools, in particular the windblown dust.
- The National Land Cover Database (NLCD) is currently being updated to reflect information for 2001. These on-going state-level efforts will ultimately provide landuse/landcover data similar to the current LULC data in use by the WRAP, which is derived from the 1992 version of the NLCD. ENVIRON will track the developments of the updated database for possible future use in the WRAP modeling efforts.
- Various national data sets for ecosystems, particularly soil characteristics, should be further reviewed and evaluated for use in updating or augmenting current data for the development of improved windblown dust estimates.
- Numerous GIS data delineating administrative boundaries were identified through web searches as well as from response to the data requests. These data will be collected and assembled to provide a comprehensive set of GIS coverages, or shapefiles, incorporating the latest, up to date information for state and county boundaries, National Parks and Forests, Tribal boundaries and Federal and Tribal Class I Areas.
- A number of GIS data portals and clearinghouses were also identified and listed in Table 1. These sites will be reviewed in more detail to ascertain whether additional useful data are available.

It should be noted that this data summary by no means represents the entirety of available data. As part of the remaining tasks of the project, ENVIRON will continue to review and evaluate additional data as it is made available, or identified, during the project.

**Table 1. Summary of national GIS data and data sources.**

	Database Title	Organization	Description	Data Products	Spatial Extent	Website
All	DOI Clearing House	DOI	EGIM is an initiative of DOI to develop a framework for standardization and coordination of GIS activity across DOI's Bureaus - Bureau of Indian Affairs, Bureau of Land Mgt, Bureau of Reclamation, Minerals Mgt Service ( <a href="http://www.mms.gov/Id/Maps.htm">http://www.mms.gov/Id/Maps.htm</a> ), National Park Service ( <a href="http://www.nps.gov/gis/">http://www.nps.gov/gis/</a> ), Office of Surface Mining ( <a href="http://www.tips.osmre.gov/">http://www.tips.osmre.gov/</a> ), US Fish and Wildlife Service ( <a href="http://www.fws.gov/data/">http://www.fws.gov/data/</a> ), USGS ( <a href="http://ask.usgs.gov/digidata.html">http://ask.usgs.gov/digidata.html</a> )	Clearing House	National	<a href="http://www.nps.gov/gis/egim/">http://www.nps.gov/gis/egim/</a>
All	NSGIC	National States Geographic Information Council (NSGIC)	NSGIC is an organization of States committed to efficient and effective government through the prudent adoption of geographic information technology (GIT). Members of NSGIC include delegations of state GIS coordinators and senior state GIS managers from across the United States. Other members include representatives from Federal agencies, local government, the private sector, academia and other professional organizations. A rich and diverse group, the NSGIC membership includes nationally and internationally recognized experts in GIS, geospatial data production and management, and information technology policy.	Links to GIS data owners and operators by state	National	<a href="http://www.nsgic.org/">http://www.nsgic.org/</a>
All	USGS GISDATA Map Studio	USGS	Seamless USGS GIS data downloads	Seamless USGS GIS data downloads	National	<a href="http://gisdata.usgs.gov/">http://gisdata.usgs.gov/</a>
All	USGS National Atlas	USGS	In addition to population maps, this first atlas presented economic and natural resources maps, including forests, precious metals, coal, climate, and crops. The last "Statistical Atlas" was based on the 1920 census. The latest National Atlas includes electronic maps and services that are delivered online. We are using information presentation, access, and delivery technologies to bring you a dynamic and interactive atlas.	Agriculture, Environment, People, Biology, Geology, Transportation, Boundaries, History, Water, Climate, Map, Reference	National	<a href="http://nationalatlas.gov/pros.html">http://nationalatlas.gov/pros.html</a>
All	USDA Geospatial Data Gateway	USDA	Content Summary: The Geospatial Data Gateway or Geo-Data Gateway provides easy and consistent access to natural resource data. You can search for available data by geographic area such as county or state, use our point and click map tool to find your area of interest; using a gazetteer, or by entering latitude and longitude coordinates. You can also search for data by theme, such as digital ortho imagery, digital elevation models (DEMs), or soils. You can then view a thumbnail, or sample of the data you've chosen to know if you want a copy of the data. If you do, you can either download the data directly onto your machine, pick it up via our ftp site, or order it on media such as CD. Content Purpose: The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data at anytime, from anywhere, to anyone. The Gateway allows you to choose your area of interest, browse and select data from our catalog, customize the format, and have it downloaded or shipped on CD. Supplemental Information: GOS metadata publisher: J. Steven Nechero, USDA NRCS NCGC, 501 West Felix Street, FWFC Building 23, P.O. Box 6567, Fort Worth, Texas, snechero@fw.nrcs.usda.gov	farming, soils, common land unit (CLU), orthoimagery, census (TIGER), elevation, hydrography, transportation, digital raster graphics (DRG), landcover (NLCD), watershed boundaries (WBD), flood hazard (FEMA Q3), climate - precipitation (PRISM), map indexes	National	<a href="http://datagateway.nrcs.usda.gov/">http://datagateway.nrcs.usda.gov/</a>
All	ESRI Spatial Database Engine	ESRI	The World Basemap Data includes data layers from a variety of ESRI products, including ArcAtlas, ArcWorld, Digital Chart of the World, and Data and Maps. ESRI assembled selected data layers from these sources into a Spatial Database Engine (SDE) database to provide a continuous display of basemap data from a small-scale global display to a medium-scale regional display. You can analyze this data using GIS software such as ArcGIS and ArcExplorer-Java Edition, ESRI's Public Domain data viewer.	Includes Country Boundaries, Coastlines, Administrative Boundaries, Water Bodies, Perennial Rivers, Intermittent Rivers, Populated Places, Major Roads, Major Trails, Capital Cities, Major Cities, Cities, and Airports.	National, International	<a href="http://www.esri.com/data/download/basemap/description.html">http://www.esri.com/data/download/basemap/description.html</a>
All	USDA Clearing House	USDA	The Geospatial Data Gateway or Geo-Data Gateway provides easy and consistent access to natural resource data. You can search for available data by geographic area such as county or state, use our point and click map tool to find your area of interest; using a gazetteer, or by entering latitude and longitude coordinates. You can also search for data by theme, such as digital ortho imagery, digital elevation models (DEMs), or soils. You can then view a thumbnail, or sample of the data you've chosen to know if you want a copy of the data. If you do, you can either download the data directly onto your machine, pick it up via our ftp site, or order it on media such as CD. Content Purpose: The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data at anytime, from anywhere, to anyone. The Gateway allows you to choose your area of interest, browse and select data from our catalog, customize the format, and have it downloaded or shipped on CD.	Theme Keywords: farming, soils, common land unit (CLU), orthoimagery, census (TIGER), elevation, hydrography, transportation, digital raster graphics (DRG), landcover (NLCD), watershed boundaries (WBD), flood hazard (FEMA Q3), climate - precipitation (PRISM), map indexes Place Keywords: United States of America & Territories	National, State, County	<a href="http://datagateway.nrcs.usda.gov/">http://datagateway.nrcs.usda.gov/</a>
All	GOS clearing house	DOI	Geospatial One-Stop makes it easier, faster and less expensive for all levels of government and the public to access geospatial information, providing the tools for better government services. Geospatial One-Stop, an intergovernmental project managed by the Department of the Interior in support of the President's Initiative for E-government, is the gateway to the NSDI Clearinghouse network. The project works in partnership with the Federal Geographic Data Committee (FGDC) to encourage collaboration, and leverage government geospatial resources and best practices (Ref date: 2/2005).	Administrative and Political Boundaries + Agriculture and Farming Soil Resources   Water Resources Atmosphere and Climatic + Biology and Ecology Amphibians and Reptiles   Bird Conservation   Coastal and Inland Waters   Ecosystems   Fisheries and Aquatics   Forestry   Invasive Species   Mammals   Museum Collections   Pollinators   Vegetation   Wildlife Disease Business and Economic Cadastral + Cultural, Society, and Demographic Demographic   Archeology and Anthropology   Built	National, State, Local	<a href="http://www.geodata.gov/gos">http://www.geodata.gov/gos</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
				Environment   American Indian/Alaskan Native Subchannel   Historical Features   Family and Social Services   Law Enforcement   Education + Elevation and Derived Products Derived Elevation Data and Products + Environment and Conservation Land Cover   Meteorology   Natural Resources   Environmental Risk   Watersheds Geological and Geophysical Human Health and Disease + Imagery and Base Maps Base Maps   Orthoimagery   Other Imagery + Inland Water Resources The Drainage Network   Major Water Databases Locations and Geodetic Networks Oceans and Estuaries Transportation Networks Utilities and Communication		
Bound	BLM Administrative Jurisdictions	BLM, National Science & Technology Center	The BLM is an agency in the Department of Interior, in the US Government. The BLM manages 264 million acres of surface acres of public lands located primarily in the 12 Western States, including Alaska. The agency manages an additional 300 million acres of below ground mineral estate located throughout the country. Originally, these lands were valued principally for the commodities extracted from them; today, the public also prizes them for their recreational opportunities and their natural, historical, and cultural resources they contain.	Theme_Keyword: BLM administration, BLM jurisdictions, Field Office, State Office, District, Resourcearea, Tier	National	<a href="http://www.blm.gov/nstc/jurisdictions/">http://www.blm.gov/nstc/jurisdictions/</a>
Bound	Digital Offshore Cadastre -- Clearinghouse	MMS, Mapping & Boundary Branch	The MMS is making its existing cadastre data available at <a href="http://www.mms.gov/ld/Maps.htm">http://www.mms.gov/ld/Maps.htm</a> . These data will include digital images of MMS data at the regional, planning area, Official Protraction Diagram (OPD), and Supplemental Official OCS Block Diagram (SOBD) levels and digital spatial data in Arc/Info export and Arc/View shape format at the regional or planning area levels. The cadastre information MMS produces is generated in accordance with 30 Code of Federal Regulations (CFR) 256.8 to support Federal land ownership and mineral resource management.	Theme Keywords: offshore,cadastre,outer continental shelf,minerals management service,official protraction diagram,supplemental official OCS block diagram,submerged lands act boundary,state seaward boundary,limit of '8(g) zone',coastline,shoreline,marine sanctuary,planning area,composite block diagram Place Keywords: exclusive economic zone,atlantic ocean,pacific ocean,arctic ocean,gulf of mexico,caribbean sea,maine,new hampshire,massachusetts,rhode island,connecticut,new york,new jersey,delaware,maryland,virginia,north carolina,south carolina,georgia,florida,alabama,mississippi,louisiana,texas,california,oregon,washington,alaska,hawaii,puerto rico,u.s. virgin islands	National	<a href="http://www.mms.gov/ld/Maps.htm">http://www.mms.gov/ld/Maps.htm</a>
Bound	MAD Database	McGhie, R. Gavin. 1996. Creation of a Comprehensive Managed Areas Spatial Database for the Conterminous United States: Summary Project Technical Report (NASA-NAGW-1743). NCGIA Technical Report 96-4. NCGIA, University of California Santa Barbara, California.	MAD is a comprehensive GIS database for the conterminous United States which includes all types of managed areas. Examples include National and State Parks and Forests, Wilderness Areas, Indian and Military Reservations, and National Wildlife Refuges. Researchers at the Remote Sensing Research Unit have compiled this database by integrating a number of data sources diverse in scale and map projection. The database has been compiled as a 1:2,000,000 scale product, and both the precision and accuracy of the database are in accord with that scale. This effort at RSRU complements similar activities being performed by national and international agencies such as the World Conservation Monitoring Center (WCMC), United Nations Environmental Program (UNEP), and the National Biological Service (NBS).	NA tribal regions	National	<a href="http://www.ncgia.ucsb.edu/rsru/mad/mad.html">http://www.ncgia.ucsb.edu/rsru/mad/mad.html</a>
Bound	The National Park Service Interactive Map Center	NPS	The NPS Interactive Map Center provides access to dynamic maps of the park system. Use the Map Center to find maps that meet your specific criteria and then generate custom maps to print or download. Maps are available for all the national parks and monuments but the site features park specific data for Yellowstone and Gettysburg.	parks,monuments	National	<a href="http://maps.nps.gov/">http://maps.nps.gov/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Bound	US Census Bureau Boundary Files	U.S. Census Bureau	Provides access to generalized, digital files suitable for use with a Geographic Information System (G.I.S.) as a base for medium to small-scale thematic mapping.	Alaska Native Regional Corporations American Indian Areas/Alaska Native Areas/Hawaiian Home Lands American Indian Tribal Subdivisions Census Block Groups Census Divisions Census Regions Census Tracts Congressional Districts Consolidated Cities County and County Equivalent Areas County Subdivisions Incorporated Places/Census Designated Places Metropolitan Areas Metropolitan and Micropolitan Statistical Areas New England City and Town Areas New England County Metropolitan Areas Oregon Urban Growth Areas Public Use Microdata Areas School Districts State and State Equivalent Areas State Legislative Districts - Lower/House State Legislative Districts - Upper/Senate Subbarrios (Puerto Rico Only) Traffic Analysis Zones Tribal Block Groups Tribal Census Tracts Urban Areas Voting Districts 3-Digit ZIP Code Tabulation Areas (ZCTAs) 5-Digit ZIP Code Tabulation Areas (ZCTAs)	National	<a href="http://www.census.gov/geo/www/cob/metadadata.html">http://www.census.gov/geo/www/cob/metadadata.html</a>
Bound	MMS Cadastral Data	MMS, DOI	NA	GIS and maps	National	<a href="http://www.mms.gov/Id/Maps.htm">http://www.mms.gov/Id/Maps.htm</a>
Bound	Variable NPS datasets	NPS, DOI	GIS data on national parks: National Data Sets, National Historic Trails Data Sets, National Scenic Trails Data Sets, Regional Data Sets, Saipan, Natural Resources Inventory & Monitoring	National Park Service - Historic Railroad Dataset 03/17/2003 RAILROAD.E00 National Park Service - Historical Camp Sites 11/29/2002 HISTCAMP.ZIP National Park Service - Park Boundaries 03/17/2003 BOUNDARY NPS_BOUNDARY.ZIP National Park Service Civil War Data - Cemetery 03/17/2003 CEMETERY.E00 National Park Service Civil War data - Battery 11/29/2002 BATTERY.ZIP National Park Service Civil War data - Battle Positions 11/29/2002 BATTLEPOS.ZIP National Park Service Civil War data - Burial sites 11/29/2002 BURIAL.ZIP National Park Service Civil War data - Cannon Locations 11/29/2002 CANNON.ZIP National Park Service Civil War data - Fort 11/29/2002 FORT.ZIP National Park Service Civil War data - Gun 11/29/2002 GUN.ZIP National Park Service Civil War data - Historical Hole 11/29/2002 HISTHOLE.ZIP National Park Service Civil War data - Historical Roads 11/29/2002 HISTROAD.ZIP National Park Service Civil War data - Hut 11/29/2002 HUT.ZIP National Park Service Civil War data - Traverse 11/29/2002 TRAVERSE.ZIP National Park Service Civil War data - Works 11/29/2002 WORKS.ZIP National Park Service Long Distance Trails Dataset 03/17/2003 TRAILS_NPS_LONGTRAIL.E00 National Park Service Monument Dataset 03/17/2003 MONUMENT.E00 National Park Service Structures Dataset 03/17/2003 STRUCTURE.E00 National Park Service Tour Stop Dataset 11/29/2002 TOURSTOP.ZIP National Park Service Visitors Service Dataset - Line 03/17/2003 SERVICELINE.E00 National Park Service Visitor Service dataset - Polygon 03/17/2003 SERVICEPOLY.E00 National Park Service Visitor Services Dataset - Point 03/17/2003 SERVICEPT.E00 Regions of the National Park Service, USA 09/18/2003 BOUNDARY	National, State	<a href="http://www.nps.gov/gis/data_info/">http://www.nps.gov/gis/data_info/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
				NPS_REGIONS.ZIP		
Bound Env	FEMA Q3 Flood Data	FEMA	The Q3 Flood Data is developed by electronically scanning the current effective map panels of existing paper Flood Insurance Rate Maps (FIRMs). Certain key features are digitally captured and then converted into area features, such as floodplain boundaries. Using GIS software such as ArcGIS and ArcExplorer-Java Edition, ESRI's Public Domain data viewer, you can overlay the Q3 Flood Data with your own information (street networks, land parcels, customer addresses, etc.) to display potential flood risk zones and identify future marketing opportunities. Q3 Flood Data captures certain key features from the existing paper FIRMs.	100-year and 500-year (1% and 0.2% annual chance) floodplain areas, including Zone V areas, certain floodway areas (when present on the FIRM), and zone designations Coastal Barrier Resources Act (COBRA) areas Political areas, including community identification number FIRM panel areas, including panel number and suffix U.S. Geological Survey (USGS) 1:24,000 scale topographic quadrangle corner points and neatlines The digital Q3 Flood Data do not contain the following data features that are shown on the official paper FIRM: 1) hydrographic features, 2) base flood elevations, 3) cross section lines, 4) roads, road names, or address ranges, and 5) elevation reference mark locations and elevations. 6) numbered A zones and the shading of A zones	National	<a href="http://msc.fema.gov/statemap.shtml">http://msc.fema.gov/statemap.shtml</a>
Bound LU Pop	Geographic Names Information System (GNIS)	USGS	The Geographic Names Information System (GNIS), developed by the USGS in cooperation with the U.S. Board on Geographic Names (BGN), contains information about almost 2 million physical and cultural geographic features in the United States and its territories. The Federally recognized name of each feature described in the data base is identified, and references are made to a feature's location by State, county, and geographic coordinates.	Theme_Keyword: Feature identification Theme_Keyword: Geographic feature Theme_Keyword: Geographical feature Theme_Keyword: Geographic name Theme_Keyword: Geographical name Theme_Keyword: Feature name Theme_Keyword: Official feature name Theme_Keyword: Place name Theme_Keyword: Variant name Theme_Keyword: Feature location Theme_Keyword: Feature coordinates Theme_Keyword: Feature state Theme_Keyword: Feature county Theme_Keyword: Feature class Theme_Keyword: Feature history Theme_Keyword: Feature description Theme_Keyword: Feature designation	National	<a href="http://geonames.usgs.gov/">http://geonames.usgs.gov/</a> or <a href="http://nationalmap.usgs.gov/">http://nationalmap.usgs.gov/</a>



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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Bound Pop	LandView 6	U.S. Census Bureau	LandView has its roots in the CAMEO software (Computer-Aided Management of Emergency Operations). Contains both database management software and mapping software used in the CAMEO system to create a simple computer mapping system involving two programs - MARPLOT® and LandView. The MARPLOT mapping program allows users to map Census 2000 legal and statistical areas, EPA Envirofact sites, and USGS Geographic Names Information (GNIS) features. The LandView database system allows users to retrieve Census 2000 demographic and housing data, EPA Envirofacts data and USGS GNIS information. The GNIS contains over 1.2 million records which show the official federally recognized geographic names for all known places, features, and areas in the United States that are identified by a proper name.	ensus 2000 legal and statistical areas, EPA Envirofact sites, and USGS Geographic Names Information (GNIS) features	National	<a href="http://www.census.gov/geo/landview/">http://www.census.gov/geo/landview/</a>
Bound Pop LU	NWI - National Wetland Inventory	FWS	NWI digital data files are records of wetlands location and classification as defined by the U.S. Fish & Wildlife Service. This dataset is one of a series available in 7.5 minute by 7.5 minute blocks containing ground planimetric coordinates of wetlands point, line, and area features and wetlands attributes. When completed, the series will provide coverage for all of the contiguous United States, Hawaii, Alaska, and U.S. protectorates in the Pacific and Caribbean. The digital data as well as the hardcopy maps.	Geographic Boundaries,Census/Demographic Data,Land Use Data,Hydrologic Data,wetlands NWI	National	<a href="http://www.nwi.fws.gov/">http://www.nwi.fws.gov/</a>
Bound Trans LU Emis	US Oil and Gas Resource System - Online	Earth Science Associates (ESA)	This is ESA's first net mapping site, opened June 1, 2001. It combines the extensive resources of ESA's USOGRS GIS package with maps of regional geology, economic and hydrocarbon infrastructure, land-use and physiography. Data on drilling by province and play is available for over 400 plays covering the United States onshore and state waters	Geographic Boundaries,General Reference Data,Transportation Networks,Geologic Data,Land Use Data,Natural Resources Data,Oil,Gas,DLG,Plays,Hydrocarbons,petroleum	National	<a href="http://www.earthsci.com/NetMapping/USOGRS-Online.htm">http://www.earthsci.com/NetMapping/USOGRS-Online.htm</a>
DEM	USGS National Elevation Dataset (NED) Shaded Relief Imagery	USGS	The USGS National Elevation Dataset (NED) has been developed by merging the highest-resolution, best-quality elevation data available across the United States into a seamless raster format. NED is the result of the maturation of the USGS effort to provide 1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska. The shaded relief display is derived from NED using a hill-shade technique.	1:24,000-scale Digital Elevation Model (DEM) data for the conterminous US and 1:63,360-scale DEM data for Alaska.	National	<a href="http://gisdata.usgs.net/ned/">http://gisdata.usgs.net/ned/</a>
DEM	Aircraft Laser/GPS Mapping of Coastal Topography	NOAA CSC	Laser beach mapping uses a pulsed laser ranging system mounted onboard an aircraft to measure ground elevation and coastal topography. The laser emits laser beams at high frequency and is directed downward at the earth's surface through a port opening in the bottom of the aircraft's fuselage. The laser system records the time difference between emission of the laser beam and the reception of the reflected laser signal in the aircraft. The aircraft travels over the beach at approximately 60 meters per second while surveying from the low water line to the landward base of the sand dunes.	lidar elevation dem	National	<a href="http://www.csc.noaa.gov/lidar/">http://www.csc.noaa.gov/lidar/</a>
DEM	National Atlas	USGS	A shaded-relief image shows terrain. The North America Shaded Relief image was derived from the GTOPO30 elevation data, which constitute a global digital elevation model with elevation values measured approximately 1 kilometer apart. Each grid cell in the model has a value that represents the average height above sea level within that cell. The image was created by grouping the elevation values into ranges and then assigning colors to the different elevation ranges.	Topographical Shaded Relief	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
DEM	USGS National Map Viewer	USGS	The U.S. Geological Survey has developed a National Elevation Dataset (NED). The NED is a seamless mosaic of best-available elevation data. The 7.5-minute elevation data for the conterminous United States are the primary initial source data. In addition to the availability of complete 7.5-minute data, efficient processing methods were developed to filter production artifacts in the existing data, convert to the NAD83 datum, edge-match, and fill slivers of missing data at quadrangle seams. One of the effects of the NED processing steps is a much-improved base of elevation data for calculating slope and hydrologic derivatives.	Elevation data	ND by Dust database	<a href="http://edcscns17.cr.usgs.gov/EarthExplorer/">http://edcscns17.cr.usgs.gov/EarthExplorer/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Emis	Envirofacts Data Warehouse	EPA	This website provides access to several EPA databases to provide you with information about environmental activities that may affect air, water, and land anywhere in the United States. This feature allows you to retrieve a sampling of information pertaining to your area by entering a specific ZIP Code, City and State, or County and State.	<p>Data are retrieved from EPA source databases and posted to Envirofacts at various intervals.</p> <p>Databases are as follows:</p> <ul style="list-style-type: none"> <li>Envirofacts AIRS Facility Subsystem (EF AIRS/AFS) 3/21/2005 3/30/2005 Updated Monthly.</li> <li>Brownfields Management System (BMS) 4/7/2005 4/8/2005 Updated Monthly.</li> <li>Biennial Reporting (BR) 11/18/2003 6/30/2004 Updated Every Two Years.</li> <li>"Comprehensive Environmental Response, Compensation &amp; Liability Information System (CERCLIS)" 3/25/2005 3/31/2005 Updated Monthly.</li> <li>Facility Registry System (FRS) Nightly Nightly Updated Nightly.</li> <li>Environmental Radiation Ambient Monitoring System 2/21/2005 3/17/2005</li> <li>Grants Information &amp; Control System (GICS) 4/4/2005 4/8/2005 Updated Bi-Weekly.</li> <li>Information Collection Rule (ICR) 5/17/2000 Final Data Update Complete.</li> <li>Locational Reference Tables (LRT) 11/22/2004 12/13/2004 Updated Monthly</li> <li>Permit Compliance System (PCS) 3/25/2005 3/31/2005 Updated Monthly.</li> <li>Resource Conservation and Recovery Act Information (RCRAInfo) 3/11/2005 3/29/2005 Updated Monthly</li> <li>Safe Drinking Water Information System (SDWIS) 1/16/2005 1/24/2005 Updated Quarterly.</li> <li>Toxics Release Inventory (TRI) 11/8/2004 12/7/2004 TRI 2002 data is now available</li> </ul> <p>The Main Envirofacts Query accesses additional site information that is maintained by the Superfund Program. The dates listed below reflect when the Superfund Program posted the site information.</p> <ul style="list-style-type: none"> <li>National Priorities List (NPL) Fact Sheets: Posted (by Superfund): 05/16/1997</li> <li>Record of Decisions (RODS) Documents: Posted (by Superfund): 04/07/1997</li> <li>Archived Site Reports: Posted (by Superfund): 07/18/1997</li> <li>CERCLIS Site Reports: Posted (by Superfund): 07/18/1997</li> </ul>	National	<a href="http://www.epa.gov/enviro/index.html">http://www.epa.gov/enviro/index.html</a>



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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Emis Env	BASINS: Better Assessment Science Integrating Point & Nonpoint Sources	EPA	BASINS is a multipurpose environmental analysis system designed for use by regional, state, and local agencies in performing watershed and water quality-based studies. This system makes it possible to quickly assess large amounts of point source and non-point source data in a format that is easy to use and understand. Installed on a personal computer, BASINS allows the user to assess water quality at selected stream sites or throughout an entire watershed. This invaluable tool integrates environmental data, analytical tools, and modeling programs to support development of cost-effective approaches to watershed management and environmental protection, including TMDLs.	Spatially Distributed Data Land use/land cover Urbanized areas Populated place locations Reach File Version 1 (RF1) Soils (STATSGO) Elevation (DEM) National Elevation Dataset (NED) Major roads USGS hydrologic unit boundaries (accounting unit, cataloging unit) Dam sites EPA regional boundaries State boundaries County boundaries Federal and Indian Lands Ecoregions Environmental Monitoring Data Water quality monitoring station summaries Water quality observation data Bacteria monitoring station summaries Weather station sites USGS gaging stations Fish Consumption advisories National sediment inventory (NSI) Shellfish classified areas Clean Water Needs Survey Point Source Data Industrial Facilities Discharge (IFD) sites BASINS 3 Permit Compliance System (PCS) sites and loadings BASINS 2 Permit Compliance System (PCS) sites and loadings Toxic Release Inventory (TRI) sites CERCLIS-Superfund National Priority List (NPL) sites Resource Conservation and Recovery Information System (RCRIS) sites Mineral Industry Locations	National	<a href="http://www.epa.gov/waterscience/basins/b3webdwn.htm">http://www.epa.gov/waterscience/basins/b3webdwn.htm</a>
Emis Env	WATERS (Watershed Assessment, Tracking & Environmental ResultS	EPA	Watershed Assessment, Tracking & Environmental ResultS (WATERS) is an integrated information system for the nation's surface waters. The EPA Office of Water (OW) has various programs that store data in associated databases. These databases are separately managed with little coordination among them. Under WATERS, the program databases are connected to a larger framework. This framework is a digital network of surface water features known as the National Hydrography Dataset (NHD)	Impaired Waters, Water Quality Standards, Assessed Waters, Beaches, Sewage No Discharge Zones, Nonpoint Source Projects	State, Tribe and Territory	<a href="http://www.epa.gov/waters/data/downloads.html">http://www.epa.gov/waters/data/downloads.html</a>
Emis Env Bound	C-MAP GIS Data Download	US EPA	The Role of C-MAP: Understanding the Spatial Relationships between Emissions, Acid Deposition, and Environmental Response Phase I of the Acid Rain Program achieved substantial emission reductions, resulting in significant environmental and health benefits. Understanding the response from these emission reductions to deposition levels and to the environment, is one of the most difficult and important questions remaining. As even greater emission reductions occur under Phase II of the Acid Rain Program (2000 forward), and with additional NOx reductions expected in the Northeast under the NOx Budget Program, the ability to describe the ecological response to these reductions becomes increasingly important in determining whether current control levels provide adequate protection to human health and the environment. Using C-MAP, we can better understand the environmental effectiveness of current air pollution reduction strategies geographically, in order to determine if further pollution control steps may be necessary.	Air, Land, Water, Sensitive Resources, Demographics, Emissions, Deposition, Climate/meteorology, area boundaries	National	<a href="http://www.epa.gov/airmarkets/cmap/data/index.html">http://www.epa.gov/airmarkets/cmap/data/index.html</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Env	ARL Air Quality and Climatic Data	NOAA, Air Resources Laboratory (ARL)	A world wide web based system called the Real-time Environmental Applications and Display sYstem (READY) has been developed for accessing and displaying meteorological data and running trajectory and dispersion model products on the National Oceanic and Atmospheric Administration's (NOAA) Air Resources Laboratory (ARL) web server. This system brings together dispersion models, graphical display programs and textual forecast programs generated over many years at ARL into a form that is easy to use by anyone, but its primary focus is for atmospheric scientists.	Meteorological Model Gridded Data FNL Archive EDAS Archive NGM Archive Climate Data A digitized metadata set of global upper-air station histories Anomalies of United States cloudiness and sunshine duration Global variations in total ozone and layer-mean ozone Layer-mean temperature anomalies Tropical stratosphere temperature anomalies Antarctic stratosphere temperature anomalies 300-mb north polar vortex area Tropospheric Precipitable Water: a radiosonde based climatology. Precipitation Chemistry Data AIRMoN Data MAP3S Data Atmospheric Tracer Experiment Data Tracer Experiment Data Archive Data Archive of Tracer Experiments and Meteorology (DATEM) program	National	<a href="http://www.arl.noaa.gov/ss/transport/readyinfo.html">http://www.arl.noaa.gov/ss/transport/readyinfo.html</a>
Env	AWIPS Database	National Weather Service	Content Summary: This catalog assembles and promulgates spatial geographic information issued by the National Weather Service (NWS). These data consist of a variety of official NWS forecast zones and county designations used by be NWS. In addition other data that might be of interest and that are used by the (NWS) Advanced Weather Information Processing System (AWIPS) are available through the catalog. Content Purpose: For use by the external community who require or are interested in the map background data used by the NWS.	NWS Counties,Public Forecast Zones,Marine Zones,County Warning Areas,weather	National	<a href="http://www.nws.noaa.gov/geodata/">http://www.nws.noaa.gov/geodata/</a>
Env	Global Positioning System (GPS) Observational Data For the United States and It's Territories Collected Through the Geodetic Survey's Continuously Operating Reference Stations (CORS)	NOAA's Ocean Service, National Geodetic Survey (NGS)	The data set is comprised of dual-frequency Global Positioning System (GPS) observations collected continuously from several hundred ground-based stations. These stations are officially called Continuously Operating Reference Stations (CORS).  Content Purpose: The CORS data:- Enable centimeter-level positioning for points of interest- Enable decimeter-level positioning for moving points- Monitor crustal motion- Monitor moisture content for the lower atmosphere- Monitor electronic charge in the upper atmosphere	GPS,Positioning,Navigation,Meteorology,Geodynamics,Glob al Positioning,Oceans	National	<a href="http://www.ngs.noaa.gov/CORS/">http://www.ngs.noaa.gov/CORS/</a>
Env	State Soil Geographic (STATSGO) Database	USDA Natural Resources Conservation Service	The STATSGO database is a digital general soil association map developed by the National Cooperative Soil Survey. It consists of a broad based inventory of soils and nonsoil areas that occur in a repeatable pattern on the landscape and that can be cartographically shown at the scale mapped. The soil maps for STATSGO are compiled by generalizing more detailed soil survey maps. Where more detailed soil survey maps are not available, data on geology, topography, vegetation, and climate are assembled, together with Land Remote Sensing Satellite (LANDSAT) images. Soils of like areas are studied, and the probable classification and extent of the soils are determined. Map unit composition for a STATSGO map is determined by transecting or sampling areas on the more detailed maps and expanding the data statistically to characterize the whole map unit. The original data set consists of georeferenced digital map data and computerized attribute data. The map data are collected in 1- by 2-degree topographic quadrangle units and merged and distributed as statewide coverages. The soil map units are linked to attributes in the Map Unit Interpretations Record relational data base which gives the proportionate extent of the component soils and their properties.	Theme_Keyword: Conterminous United States Theme_Keyword: Soils Theme_Keyword: General Soils Map Theme_Keyword: State Soil Geographic Theme_Keyword: STATSGO	National	<a href="http://www.ncgc.nrcs.usda.gov/products/datasets/statsgo/">http://www.ncgc.nrcs.usda.gov/products/datasets/statsgo/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Env	SURFACE DATA	AccuWeather, Inc.	This data is a collection of observed and derived meteorological surface data for over 7300 sites throughout the United States and its territories. This data is intended to display the current weather conditions for the United States and its territories. Thematic layers include temperature, wind chill, wind direction, wind speed, relative humidity, station id codes, current conditions, barometric pressure.	temperature surface data weather wind chill barometer pressure wind speed wind direction meteorology current conditions humidity	National	<a href="http://www.accuweather.com/adcbn/public/index.asp?partner=accuweather">http://www.accuweather.com/adcbn/public/index.asp?partner=accuweather</a>
Env	NADP/NTN, NADP/AIRMon, NADP/MDN Databases	National Atmospheric Deposition Program	<p>The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a nationwide network of precipitation monitoring sites. The network is a cooperative effort between many different groups, including the State Agricultural Experiment Stations, U.S. Geological Survey, U.S. Department of Agriculture, and numerous other governmental and private entities. For a full list of contributors, see the collaborating agencies page. The NADP/NTN has grown from 22 stations at the end of 1978, our first year, to over 200 sites spanning the continental United States, Alaska, and Puerto Rico, and the Virgin Islands.</p> <p>The purpose of the network is to collect data on the chemistry of precipitation for monitoring of geographical and temporal long-term trends. The precipitation at each station is collected weekly according to strict clean-handling procedures. It is then sent to the Central Analytical Laboratory where it is analyzed for hydrogen (acidity as pH), sulfate, nitrate, ammonium, chloride, and base cations (such as calcium, magnesium, potassium and sodium). Our excellent quality assurance programs ensure that the data remain accurate and precise.</p> <p>The National Atmospheric Deposition Program has also expanded its sampling to two additional networks. The Mercury Deposition Network (MDN), currently with over 35 sites, was formed in 1995 to collect weekly samples of precipitation which are analyzed by Frontier Geosciences for total mercury. The objective of the MDN is to monitor the amount of mercury in precipitation on a regional basis; information crucial for researchers to understand what is happening to the nation's lakes and streams. Another network, the Atmospheric Integrated Research Monitoring Network (AIRMoN), was formed for the purpose of studying precipitation chemistry trends with greater temporal resolution. Precipitation samples are collected daily from a network of nine sites and analyzed for the same constituents as the NADP/NTN samples.</p> <p>Through this web site, one can access NADP data products, which include:                      Weekly and daily precipitation chemistry data                      Monthly, seasonal, and annual precipitation-weighted mean concentrations                      Annual and seasonal wet deposition totals                      Mercury deposition data                      Daily precipitation totals                      Color isopleth maps of precipitation concentrations and wet deposition                      Site photos, maps, and information                      Quality Assurance data and information</p>	<p>Links to database for NADP/NTN: National Trends Network</p> <p>NADP/AIRMoN: Atmospheric Integrated Research Monitoring Network</p> <p>NADP/MDN: Mercury Deposition Network</p> <p>Weekly and daily precipitation chemistry data                      Monthly, seasonal, and annual precipitation-weighted mean concentrations                      Annual and seasonal wet deposition totals                      Mercury deposition data                      Daily precipitation totals                      Color isopleth maps of precipitation concentrations and wet deposition                      Site photos, maps, and information                      Quality Assurance data and information</p>	National	<a href="http://nadp.sws.uiuc.edu/nadpoverview.asp">http://nadp.sws.uiuc.edu/nadpoverview.asp</a>



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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Env	ARL READY (Real-time Environmental Applications and Display sYstem)	NOAA, Air Resources Laboratory (ARL)	A world wide web based system called the Real-time Environmental Applications and Display sYstem (READY) has been developed for accessing and displaying meteorological data and running trajectory and dispersion model products on the National Oceanic and Atmospheric Administration's (NOAA) Air Resources Laboratory (ARL) web server. This system brings together dispersion models, graphical display programs and textual forecast programs generated over many years at ARL into a form that is easy to use by anyone, but its primary focus is for atmospheric scientists. Users can access many of the products available to ARL personnel for analyzing forecast meteorological data. In addition users can run the HYSPLIT (version 4) transport and dispersion model, which makes READY, via the web, unique.	Use data from <a href="http://www.arl.noaa.gov/ss/transport/readyinfo.html">http://www.arl.noaa.gov/ss/transport/readyinfo.html</a> --  Meteorological  Model Gridded Data FNL Archive EDAS Archive NGM Archive Climate Data A digitized metadata set of global upper-air station histories Anomalies of United States cloudiness and sunshine duration Global variations in total ozone and layer-mean ozone Layer-mean temperature anomalies Tropical stratosphere temperature anomalies Antarctic stratosphere temperature anomalies 300-mb north polar vortex area Tropospheric Precipitable Water: a radiosonde based climatology. Precipitation Chemistry Data AIRMoN Data MAP3S Data Atmospheric Tracer Experiment Data Tracer Experiment Data Archive Data Archive of Tracer Experiments and Meteorology (DATEM) program	National, International	<a href="http://www.arl.noaa.gov/ready.html">http://www.arl.noaa.gov/ready.html</a>
Env	The GLOBE Program Visualization Server	NASA	Web Map Server maintained for The GLOBE Program by Digital Earth and GLOBE Visualizations at NASA Goddard Space Flight Center. Contents include GLOBE student data and environmental data from NOAA, NASA and other sources.	climatology/Meteorology/Atmosphere,NASA,environment,weather,education,science	National, International	<a href="http://viewer.digitalearth.gov/">http://viewer.digitalearth.gov/</a>
Env	Desert Winds Project	USEPA	The primary purpose of the Desert Winds Project is to obtain high resolution meteorological data and related surface geological and vegetation data for natural (e.g., uncultivated) desert sites where wind is or has been a major erosive or depositional force. The objectives are twofold: (1) to provide the detailed field measurements needed to carry out quantitative studies of wind as an agent of surface geologic change; and (2) to establish a baseline for defining the "normal" range of climatic conditions that can be expected to occur on a decadal time scale, in areas considered representative of the major American deserts. The long-term goal for acquiring and analyzing the Desert Winds Project data is to use them to address problems of land resource degradation by wind, whether resulting from climatic variation (aridification) or human activities (desertification), or both.	Wind Erosion and Deposition	ND by Dust database	<a href="http://www/flag.wr.usgs.gov/USGSFlag/Land/desert/html/techinfo.html">http://www/flag.wr.usgs.gov/USGSFlag/Land/desert/html/techinfo.html</a>
Env	Drought Monitoring Data and Model	USGS	Previous studies have established significant relationships between climate variables and satellite-derived vegetation indices (such as the Normalized Difference Vegetation Index) over non-irrigated croplands and grasslands. In this project, we are researching methods for integrating information provided by satellite-derived measures of growing season vegetation performance and climate-based drought indicators to produce a timely and spatially-detailed drought monitoring product. Eventually, this information, coupled with map products of key drought indicators, will be available to many end users for making critical and timely decisions, from farm to regional scale.	Drought Monitoring	ND by Dust database	<a href="http://edc2.usgs.gov/p/henological/drought/">http://edc2.usgs.gov/p/henological/drought/</a>
Env	Ecological Site Information System	USDA NRCS	The Ecological Site Description (ESD) database is an internet based program for entering, storing, and retrieving ecological site description information. Ecological site descriptions for rangeland and forestland can be entered into the database. Ecological site is defined as "a distinctive kind of land with specific characteristics that differs from other kinds of land in its ability to produce a distinctive kind and amount of vegetation". ESD is the official repository for all data associated with the development of forestland and rangeland ecological site descriptions by the Natural Resources Conservation Service. Data include Site Characteristics (identifies the site and describes the physiographic, climate, soil, and water features associated with the site), Plant Communities (describes the ecological dynamics and the common plant communities comprising the various vegetation states of the site, including disturbances that cause a shift from one state to another), Site Interpretations (interpretive information pertinent to the use and management of the site and its related resources), and Supporting Information (information on sources of information and data utilized in developing the site description and the relationship of the site to other ecological sites).	Ecological Site Description	ND by Dust database	<a href="http://esis.sc.egov.usda.gov/Welcome/pgESDWelcome.aspx">http://esis.sc.egov.usda.gov/Welcome/pgESDWelcome.aspx</a>

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Database Title	Organization	Description	Data Products	Spatial Extent	Website
Env Eolian Mapping Index (EMI)	USGS	Using satellite digital multispectral data, the Eolian model has been developed that allows an image to be generated that emphasizes areas with low vegetation density and high reflectance soils. Generally, this automatically maps two important eolian erosion parameters (i.e., amount of vegetation cover/density and general surface soil type). In arid and semi-arid environments the soils most vulnerable to wind erosion usually have low vegetation cover and bright reflectance. An image is generated using this model that shows areas where these two conditions occur together. Current analysis and field work are evaluating the accuracy of the model by validating and quantifying wind erosion susceptibility.	Wind Erosion Susceptibility	ND by Dust database	<a href="http://geochange.er.usgs.gov/sw/impacts/geology/rainfall/eolianmp.html">http://geochange.er.usgs.gov/sw/impacts/geology/rainfall/eolianmp.html</a>
Env National Atlas	National Oceanic and Atmospheric Administration (NOAA), National Oceanographic Data Center (NODC), and the University of Miami's Rosenstiel School of Marine and Atmospheric Science (RSMAS)	Sea surface temperature (SST) averages indicate the temperature in degrees Celsius at the surface of the ocean and other large water bodies for the years 1985-2001, as determined from Advanced Very High Resolution Radiometer (AVHRR) data from the NOAA-9, NOAA-11, NOAA-14, and NOAA-16 satellites.	Seasonal Sea Surface Temperature Averages	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
Env National Atlas	Natural Resources Conservation Service (NRCS)	The average annual precipitation data for the conterminous United States from 1961 through 1990 were produced through a partnership between the NRCS and the Spatial Climate Analysis Service at Oregon State University (OSU). NRCS provided oversight and funding to OSU for the PRISM Climate Mapping Project. PRISM is a unique modeling system designed to mimic the decision-making process an expert climatologist would use when creating a climate map.	Average Annual Precipitation	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
Env National Atlas	Smithsonian Institution	Analyzing contemporary volcanic activity with historical and geological records of the recent past provides the context for assessing any volcano's benefits and dangers. The Global Volcanism Program (GVP) seeks better understanding of all volcanoes through documenting their eruptions during the last 10,000 years. The large and growing Volcanoes of the World database developed by the GVP contains the geographic, historical, and volcanological characteristics of nearly 3,000 active volcanoes around the world. The map layer features volcanoes in an extended area of the northern hemisphere centered on North America. Descriptive information includes the name of the volcano, the timeframe of the last known eruption, the summit elevation, the type of volcano as described by its shape and size, and the type of evidence used to determine volcanic activity. The National Atlas also includes a multimedia map showing potentially active volcanoes in the United States.	Volcanoes	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
Env National Atlas	USGS	Surficial deposits and other surface materials that accumulated or formed during the past 2+ million years, such as soils, alluvium, and glacial deposits. Potential uses of the information in the map layer include studies to evaluate hazards such as earthquakes, landslides, swelling clay, floods, and volcanic eruptions; studies to identify areas of intense erosion.	Recent Surficial Deposits	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
Env National Climatic Data Center	NOAA	NCDC is the world's largest active archive of weather data.	Climatological Data	ND by Dust database	<a href="http://www.ncdc.noaa.gov/oa/ncdc.html">http://www.ncdc.noaa.gov/oa/ncdc.html</a>
Env National Resources Inventory	USDA NRCS	The National Resources Inventory (NRI) is a statistical survey designed to help gauge natural resource status, conditions, and trends on the Nation's nonfederal land. Data are National STATSGO Interpretive map of the "probability" of soil map units having soils with t-factor (soil loss tolerance, the maximum amount of erosion at which the quality of a soil as a medium for plant growth can be maintained) of 1, 2, 3, 4, and 5. Data presented in tabular form include estimated average annual wind erosion in relation to T value on nonfederal rural land, by land cover/use.	Soil T-Factor	ND by Dust database	<a href="http://www.nrcs.usda.gov/Technical/land/erosion.html">http://www.nrcs.usda.gov/Technical/land/erosion.html</a>
Env National Resources Inventory	USDA NRCS	The National Resources Inventory (NRI) is a statistical survey designed to help gauge natural resource status, conditions, and trends on the Nation's nonfederal land. Data are shaded polygon maps where soil erosion by wind on cropland and Conservation Reserve Program (CRP) land is displayed in five shaded classes of tons per acre per year.	Soil Erosion by Wind	ND by Dust database	<a href="http://www.nrcs.usda.gov/Technical/land/erosion.html">http://www.nrcs.usda.gov/Technical/land/erosion.html</a>
Env PRISM Data Explorer	Spatial Climate Analysis Service, Oregon State University	Average monthly precipitation, dew point, and temperature data. This OSU SCAS web site provides access to the highest-quality spatial climate data sets currently available. These data sets were created using the PRISM climate mapping system, developed by Dr. Christopher Daly, SCAS director. PRISM is unique in that it incorporates a spatial climate knowledge base that accounts for rain shadows, temperature inversions, coastal effects, and more in the climate mapping process.	Precipitation, Dew Point, Temperature	ND by Dust database	<a href="http://mistral.mape.orst.edu/www/mapserv/nn/index.phtml">http://mistral.mape.orst.edu/www/mapserv/nn/index.phtml</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Env	Recoverability and Vulnerability of Desert Ecosystems (RVDE) project	USGS	Prototype models are being developed that predict soil crust distribution (cover of mosses, lichens, and cyanobacteria) and to use these models to create spatially explicit maps to inform land managers about where different crust communities are located and the vulnerability of each community type. One of the key landscape elements that minimizes both wind and water erosion is the presence and types of cryptobiotic crusts mantling soil surfaces. Soil crusts are an important process control on surficial erosion.	Biological Soil Crusts Prediction Map	ND by Dust database	<a href="http://geography.wr.usgs.gov/mojave/rvde/activ_biosoil.html">http://geography.wr.usgs.gov/mojave/rvde/activ_biosoil.html</a>
Env	Recoverability and Vulnerability of Desert Ecosystems (RVDE) project	USGS	The vulnerability of desert surfaces to wind erosion and their recoverability after disturbance has been modeled using data from portable wind-tunnel measurements, soil characteristics (chemical and physical) and vegetative community characteristics (cover, density, and arrangement). This model is being field-tested, using new sites that represent a range of soil surface age, altitude, soil grain size, and parent material.	Wind Erosion	ND by Dust database	<a href="http://geography.wr.usgs.gov/mojave/rvde/activ_wind.html">http://geography.wr.usgs.gov/mojave/rvde/activ_wind.html</a>
Env	Soil Data Mart: Soil Survey Geographic (SSURGO) database	USDA NRCS	Spatial distribution of soil types, with slope.	Soil Type	ND by Dust database	<a href="http://soildatamart.nrcs.usda.gov/">http://soildatamart.nrcs.usda.gov/</a>
Env	Various	Western Regional Climate Center, Desert Research Institute	Climatology data	Climatological Data	ND by Dust database	<a href="http://wrcc.dri.edu/">http://wrcc.dri.edu/</a>
Env	Wind Erosion Prediction System	USDA NRCS	The Wind Erosion Prediction System (WEPS) is a process-based, daily time-step model that simulates weather, field conditions, and erosion. The purposes of WEPS are to improve technology for assessing soil loss by wind from agricultural fields and to provide new capabilities such as assessing plant damage, calculating suspension loss, and estimating PM-10 emissions from the field.	Wind Erosion	ND by Dust database	<a href="http://www.weru.ksu.edu/weps/wepshome.html">http://www.weru.ksu.edu/weps/wepshome.html</a>
Env	USDA Natural Resources Conservation Service	USDA NRCS	NRCS puts nearly 70 years of experience to work in assisting owners of America's private land with conserving their soil, water, and other natural resources. Local, state and federal agencies and policymakers also rely on our expertise. We deliver technical assistance based on sound science and suited to a customer's specific needs. Cost shares and financial incentives are available in some cases. Most work is done with local partners. Our partnership with local conservation districts serves almost every county in the nation, and the Caribbean and Pacific Basin. Participation in our programs is voluntary.	Detailed Ssurgo Soil Surveys Anchorage Soil Survey (AK605) -- Digitizing complete Certified Ssurgo Data Metadata Copper River Survey (AK612) -- Digitizing complete Certified Ssurgo Data Metadata Gerstle River Area (AK615)-- Digitizing complete Certified Ssurgo Data Metadata Haines Survey (Ak641) -- Digitizing complete Certified Ssurgo Data Metadata Kantishna Area (AK643) -- Digitizing complete Certified Ssurgo Data Metadata Lower Kenai (Ak639) -- Digitizing complete Certified Ssurgo Data Metadata Matanuska-Susitna Survey (AK600) -- Digitizing complete. A more compact shape file version of the mapping (in State Plane Zone4) is available here (20megs) - archive includes database, and shape files. Metadata Certified Ssurgo Data North Star Soil Survey (AK642) -- Digitizing is complete. Data is provided as DLGS and Arc/Info coverages - UTM Zone6 - 33 megs - Metadata Certified Ssurgo Data Upper Tanana Soil Survey (AK640) -- Digitizing complete Certified Ssurgo Data Metadata Yentna Soil Survey (AK631) -- Digitizing complete Certified Ssurgo Data Metadata  Detailed Ssurgo - In Progress Western Kenai Soil Survey (Ak652) -- Digitizing Just Started. No information available. Fairbanks Soil Survey (AK603) -- Field work completed-digitizing started.  STATSGO Soils Data for Alaska	State	<a href="http://www.ak.nrcs.usda.gov/technical/soils/digitaldata.html">http://www.ak.nrcs.usda.gov/technical/soils/digitaldata.html</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
				<p>Exploratory Soil Survey of Alaska -- Statsgo Data in Albers Projection Metadata</p> <p>Special Studies/Projects</p> <p>Denali Park Soil Survey -- Field work to be completed Sept 2002, and final digital linework will be available Jan 2003. Manuscript and database to follow in October of 2003. Download interim digital linework completed through the spring of 2003 as a seamless shape file. Download Data Metadata</p> <p>Gulkana River Corridor Soils -- Field work and digitizing is complete. Download of soils data &amp; tables. ak649s.tgz 1.0 Megs .tgz compression Soils Data. Soils Map Metadata Polygon Riparian.</p> <p>Gulkana River Corridor Vegetation -- Field work and digitizing is complete. Download vegetation coverage &amp; tables. ak649v.tgz- 1.8Megs .tgz compression Vegetation Data. Vegetation Map Metadata Polygon Riparian.</p> <p>Seward Peninsula Range Sites -- Digitizing completed. Download is available as seamless Arc/Info export coverage - Albers projection. 8megs compressed export. Range Sites Data</p> <p>Seward Peninsula General Vegetation -- Digitizing completed. Download a seamless Arc/Info export coverage in Albers projection - 6 megs compressed export. General Vegetation Data</p>		
Env Bound	GeoMAC Wildfire Information	National Interagency Fire Center	The Geospatial Multi-Agency Coordination Group or GeoMAC, is an internet-based mapping tool originally designed for fire managers to access online maps of current fire locations and perimeters in 12 western states. Using a standard web browser, fire personnel can download this information to pinpoint the affected areas. With the growing concern of western wildland fires in the summer of 2000, this application also became available to the public. We hope that you find this important information both timely and helpful. --The GeoMAC Project Oversight Team	environment,geographic boundaries,general reference data,topographic data,geomac,wildfire information,wildland fire information,fire science	National	<a href="http://geomac.gov">http://geomac.gov</a>
Env LU	Inforain	Ecotrust	Inforain presents Ecotrust's GIS portfolio, a network of information allowing users to achieve a deeper understanding of their local watersheds, estuaries and forests as well as a broader comprehension of these places within a bioregional context.	Biological, climate, economic, environmental quality, geomorphology, hydrological, infrastructure, land cover, marine, political, social, terrain, vegetation,	National	<a href="http://www.inforain.org/dataresources/datalayers.cfm">http://www.inforain.org/dataresources/datalayers.cfm</a>
Env LU	USGS National Geologic National Database	USGS	The Geologic Mapping Act of 1992 and its reauthorizations mandate creation of a National Geologic Map Database (NGMDB), to serve as a "national archive" of geoscience maps. This involves generating and processing scanned, high-resolution compressed imagery of selected general-purpose bedrock and surficial geologic maps that are recorded in the NGMDB Map Catalog. Scanned images of the selected geologic maps are formatted as compressed MrSID files, which can be viewed through a Web browser with no visible loss in clarity. The NGMDB Image Library is based on open-source architecture, and includes a database management system intended to promote participation by numerous agencies, principally the state geological surveys. The user interface is now available in prototype form, and we will continue to upgrade its map query options, user forms, and help pages.	geology, hazards, earth resources, geophysics, geochemistry, geochronology, paleontology, and marine geology.	National	<a href="http://ngmdb.usgs.gov/Info.html">http://ngmdb.usgs.gov/Info.html</a> & <a href="http://ngmdb.usgs.gov/ngmdb/ngm_catalog.ora.html">http://ngmdb.usgs.gov/ngmdb/ngm_catalog.ora.html</a>
LU	TerraServer USA	USGS	of data ---10-100 times more than normal access. Instead of presenting images in their original large format, TerraServer divides these images into small tiles that can be retrieved over the Internet.	maps and aerial photographs of the United States DOQ and DRGs	National	<a href="http://www.terraSERVER.microsoft.com/">http://www.terraSERVER.microsoft.com/</a>
LU	The National Map, USGS	USGS	The National Map is a consistent framework for geographic knowledge needed by the Nation. It provides public access to high-quality, geospatial data and information from multiple partners to help inform decision making by resource managers and the public.	imageryBaseMapsEarthCover,The National Map seamless usgs,USGS	National	<a href="http://nationalmap.gov/index.html">http://nationalmap.gov/index.html</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
LU	EPA MRLC	EPA	<p>In 1992 several federal agencies agreed to operate as a consortium in order to acquire satellite-based remotely sensed data for their environmental monitoring programs. Primary administration of the consortium is performed by the USGS' Earth Resources Observation Systems (EROS) Data Center (EDC) in Sioux Falls, South Dakota and the EPA's Office of Research and Development (ORD), and National Exposure Research Laboratory's (NERL), Landscape Characterization Branch (LCB) in Research Triangle Park, North Carolina. Image processing and land-cover classification are performed at EDC, while accuracy assessments of the classification are primarily handled by LCB.</p> <p>During the 1990's, the MRLC resulted in several successful mapping programs, including the: (1) Coastal Change Analysis Project (C-CAP) administered by NOAA; (2) Gap Analysis Project (GAP) directed by the Biological Resources Division of the USGS; and the National Land Cover Data (NLCD) project directed by both the USGS and EPA. The data developed by these projects are available publicly either through download, or by contacting the agencies involved.</p>	<p>Links to :</p> <ul style="list-style-type: none"> <li>NLCD National Land Cover Data</li> <li>ReVA Regional Vulnerability Analysis</li> </ul> <p>EMAP Environmental Monitoring and Assessment Program</p> <p>EDC EROS Data Center</p> <p>NAWQA National Water-Quality Assessment</p> <p>GAP Gap Analysis Project</p> <ul style="list-style-type: none"> <li>NALC North American Landscape Characterization</li> <li>GLCC Global Land Cover Characterization</li> <li>C-CAP Coastal Change Analysis Program</li> </ul> <p>FIA Forest Inventory and Analysis</p> <p>LAA Landscape Analysis and Assessment</p> <ul style="list-style-type: none"> <li>NRI National Resource Inventory</li> <li>FGDC Federal Geographic Data Committee</li> </ul>	National, State	<a href="http://www.epa.gov/mrlc/data.html">http://www.epa.gov/mrlc/data.html</a>
LU	NLCD 1995 and 2001	EPA and USGS	<p>NLCD 92 (National Land Cover Data 1992) is a 21-category land cover classification scheme that has been applied consistently over the conterminous U.S. It is based primarily on the unsupervised classification of Landsat TM (Thematic Mapper) 1992 imagery. Ancillary data sources included topography, census, agricultural statistics, soil characteristics, other land cover maps, and wetlands data.</p>	<p>NLCD 92 (by State)</p> <p>This data is cast to the Albers Equal-Area Conic projection, and it is referenced to the North American Datum of 1983 (NAD83). Accuracy assessment has not been completed for every location, so there are two separate categories of the NLCD 92 product to reflect this status:</p> <ul style="list-style-type: none"> <li>- Final product consists of the NLCD 92 data for which accuracy assessment is complete. The final product is available on CD-ROM in GeoTIFF format. The data is also available via FTP download in either generic binary 8-bit or GeoTIFF format.</li> <li>- Preliminary product consists of the NLCD 92 data for which accuracy assessment is not complete. The data is available in either generic binary 8-bit or GeoTIFF format, and it is distributed via FTP download only.</li> </ul> <p>NLCD 92 (Seamless)</p> <ul style="list-style-type: none"> <li>-The seamless product consists of NLCD 92 for the conterminous U.S., which is provided according to a user-specified area of coverage. The data is expressed in geographic coordinates (latitude/longitude), and it is referenced to the North American Datum of 1983 (NAD83). The files are available in GeoTIFF, ArcGrid, or BIL format. The data is available on CD-ROM for any selected area, regardless of size. Instantaneous download is also available for areas up to 30 square degrees latitude/longitude (in 100 mb files).</li> </ul>	National, State	<a href="http://www.mrlc.gov/index.asp">http://www.mrlc.gov/index.asp</a>
LU	National Atlas	USDA and National Agricultural Statistics Service (NASS)	<p>The Agriculture Census of the United States - 1997 map layer portrays the data for all fifty States, collected at the county level. The 25 categories of data in this map layer contain statistics on land use and ownership, operator characteristics, acreage, machinery and equipment, crops, livestock and poultry, and farming economics.</p>	Agricultural Operations	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
LU	National Atlas	USGS	<p>The Streams and Waterbodies of the United States map layer shows the major water features of the United States that can be represented at a map scale of 1:2,000,000. Water features include streams and rivers, canals, aqueducts, lakes, reservoirs, marshes, glaciers, bays, and oceans, including intermittent and dry water bodies. Some small features cannot be portrayed at this scale. Descriptive information includes the feature name and the type of water feature represented.</p>	Surface Water Bodies	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
LU	National Park Service Vegetation Mapping Program	USGS NPS	The National Park Service (NPS), in conjunction with the Biological Resources Division (BRD) of the U.S. Geological Survey (USGS), has implemented a program to "develop a uniform hierarchical vegetation methodology" at a national level. The program will also create a geographic information system (GIS) database for the parks under its management. The purpose of the data is to document the state of vegetation within the NPS service area during the 1990's, thereby providing a baseline study for further analysis at the Regional or Service-wide level. The vegetation units of this map were determined through stereoscopic interpretation of aerial photographs supported by field sampling and ecological analysis. The vegetation boundaries were identified on the photographs by means of the photographic signatures and collateral information on slope, hydrology, geography, and vegetation in accordance with the Standardized National Vegetation Classification System	Vegetation	ND by Dust database	<a href="http://biology.usgs.gov/npsveg/products/state.html">http://biology.usgs.gov/npsveg/products/state.html</a>
LU	WRAP Fuel Characteristic Classification Systems (FCCS)	USDA Forest Service, WRAP	Coverage of fuelbed types based on biogeography, dominant vegetation, and disturbance/management history. GIS coverages (1-km) of potential vegetation, current vegetation, land use, historical fire regimes, and structural-stage classes for the western United States. Ecological provinces have been further classified according to climatological model to predict site-specific habitat types (associations between dominant cover and potential vegetation are filtered through gradient variables and fine-tuned by consideration of condition class, change agents, and other attributes). Model includes pre-defined fuel loadings by model-defined habitat type. Data are GIS coverages providing habitat type and fuel loading. Model is dynamic and can be used to reclassify areas based on climatology, land use, fires, etc.	Fuel Loading	ND by Dust database	<a href="http://www.fs.fed.us/pnw/fera/nfp/haze/mckenzie-et-al-fuel-mapping.pdf">http://www.fs.fed.us/pnw/fera/nfp/haze/mckenzie-et-al-fuel-mapping.pdf</a>
LU	Coastal Change Analysis Program (C-CAP) National Baseline data bank	NOAA Coastal Services	<p>C-CAP National Baseline</p> <p>An immediate objective for C-CAP is to expeditiously complete a national baseline of land cover and change data, from which additional dates of imagery may be used to track coastal trends over time. This is being accomplished through partnerships with private industry and more recently, the U.S. Geological Survey's (USGS) National Land Cover Dataset (NLCD) 2001 efforts. NOAA and USGS share initial land cover processing procedures, with final agency-specific processing conducted to yield each agency's respective products.</p> <p>C-CAP Baseline Products</p> <p>Land cover data for two dates, approximately 5 years apart</p> <p>A product illustrating the difference between the two dates</p> <p>C-CAP Product Specifications</p> <p>Derived from Landsat satellite imagery</p> <p>30 meter resolution</p> <p>Target 85% overall classification accuracy</p> <p>22 land cover classes</p> <p>C-CAP baseline products exist for the Great Lakes region and Hawaii and work is currently underway in Michigan and the entire West Coast. Other C-CAP products are available for the Yakutat Bay in Alaska, the San Francisco Bay in California, the Columbia River Estuary, and a large portion of the east coast.</p>	<p>Completed C-CAP National Baseline Data</p> <p>Great Lakes Region: Illinois, Indiana, Michigan, Minnesota, Western New York, Ohio, Western Pennsylvania, Wisconsin</p> <p>West Coast Region: California, Oregon, Washington</p> <p>Hawaiian Islands</p> <p>Land Cover and Change Analysis Projects</p> <p>Coastal Louisiana Land Cover Change</p> <p>Columbia River Estuary, Oregon/Washington Land Cover Change</p> <p>Georgia Land Cover Change</p> <p>Great Bay, New Hampshire, Land Cover Change</p> <p>Lake St. Clair, Ontario, Canada Land Cover Change</p> <p>Long Island, New York, Land Cover</p> <p>Maine Land Cover Change</p> <p>Massachusetts, Rhode Island, and Eastern Connecticut Land Cover Change</p> <p>North Carolina Land Cover Change</p> <p>San Francisco Bay Area, California, Land Cover Change</p> <p>South Carolina Land Cover Change</p> <p>Southern Coastal California Land Cover/Land Use</p> <p>Southern New Jersey Land Cover</p> <p>Virginia Land Cover</p> <p>Yakutat Bay, Alaska, Land Cover Change</p> <p>C-CAP Prototypes</p> <p>The following projects were prototypes developed by C-CAP. Accuracy assessment results are not available -- Chesapeake Bay Land Cover Change &amp; Maine Land Cover Change</p>	State - Multiple	<a href="http://www.csc.noaa.gov/bins/data-standards.html">http://www.csc.noaa.gov/bins/data-standards.html</a>
LU Anim	Other State and Regional GAP Analysis Projects	USGS, State Agencies	The Gap Analysis Program develops land cover maps from Landsat satellite imagery for each state as a framework for assessing the conservation status of vegetation types and associated target species. Fields housing information on key environmental factors, dynamic processes, landscape relations, and disturbance history are included in each record.	Wildlife and Vegetation Data	ND by Dust database	<a href="http://www.gap.uidaho.edu/">http://www.gap.uidaho.edu/</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Pop	Census 2000/TIGER Line Data	ESRI	The Census 2000 TIGER/Line shapefiles were created from the Topologically Integrated Geographic Encoding and Referencing (TIGER®) database of the US Census Bureau.	<p>The shapefiles contain data about the following features:</p> <p>Line Features—roads, railroads, hydrography, and transportation and utility lines.</p> <p>Boundary Features—statistical (e.g., census tracts and blocks); government (e.g., places and counties); and administrative (e.g., congressional and school districts).</p> <p>Landmark Features—point (e.g., schools and churches); area (e.g., parks and cemeteries); and key geographic locations (e.g., apartment buildings and factories).</p> <p>The shapefiles do not contain:</p> <p>Zip Code Tabulation Areas (ZCTAs)</p> <p>Current address range information as reflected in the Master Address File (MAF)</p> <p>Corrections to naming of some geographic entities, including voting districts and school districts, and attributes such as Place Description Codes (PLACEDC) and Legal/Statistical Area Description Codes (LSADC) The U.S. Census Bureau also provides GENERALIZED cartographic boundary files for many of their geographies. These cartographic boundary files can be downloaded by state, in shapefile format (.shp), as well as ArcInfo export files (.e00).</p> <p>The Census 2000 TIGER/Line shapefiles reflect the final census data with the following exceptions:</p> <p>The street addresses are not yet based on the MAF.</p> <p>The voting district files are not updated for the 2002 elections.</p> <p>Updates have not been made to all layers affected by the TIGER/Line changes for Maricopa, AZ.</p> <p>The UA Census 2000 files are now available. For more information, see UA Census 2000 TIGER/Line files.</p> <p>The demographic (SF1) layers are made up of a subset of commonly used U.S. Census Summary File 1 (SF1) attributes. For a listing of the specific attributes used, see the SF1 Quick Reference Guide.</p>	National, regional, local	<a href="http://www.esri.com/data/download/census2000_tigerline.html">http://www.esri.com/data/download/census2000_tigerline.html</a>
Pop Bound	US Census Bureau Clearing House	U.S. Census Bureau	US Census Bureau Clearing House	Topics include Statistical Abstract and other Compendia, Decennial Census, TIGER and Related Products, Foreign Trade, Economic Census, County Business Patterns, Building Permits, County Business Patterns, Housing, Current Population Survey, 1990 Decennial Census, Economic Census and Surveys, Survey of Income and program Participation.	National	<a href="http://www.census.gov/geo/www/index.html">http://www.census.gov/geo/www/index.html</a>
Trans	Tele Atlas (GDT) Dynamap/Canada Street Data	TeleAtlas (GDT)	Represents the graphical boundary file for Canada's 1,604 forward sortation areas (FSAs). The FSA represents the first three digits in a Canadian postal code. The first character in the FSA identifies a Canadian province, territory, or district. The second and third characters help identify the exact area in a city, town, or other geographic location where mail will be delivered. Used extensively by marketers, retailers, and demographers, the FSA boundary file is a cost-effective spatial solution for all areas of business. It is derived from Dynamap/Canada CompuStreets, the definitive line of digital street files for Canada, which was designed to support critical micromarketing and sociodemographic segmentation needs. Dynamap/Canada CompuStreets provides a thorough analysis of the urban and rural landscape of Canada.	The database includes the entire Canadian road fabric containing more than 980,000 named streets and 650,000 addressed streets. The latest release covers more than 1,650 cities, towns, and census subdivisions, which include up to 81.3 percent of the Canadian population.	Canada	<a href="http://www.gdtcanada.com/">http://www.gdtcanada.com/</a>
Trans	TRANSTAT_The Bureau of Transportation Statistics Mapping Center	Bureau of Transportation Statistics	The Bureau of Transportation Statistics Mapping Center provides access to transportation geospatial data depicting the transportation system in the United States. Use the Mapping Center to download the most recent National Transportation Atlas Database information and the GDT DynaMap 1000 road network acquired for public domain distribution. The Mapping Center also includes a number of applications to and view and analyze transportation-specific information such as highway condition and performance characteristics from the Highway Performance Monitoring System, accidents at rail grade crossings, airline market share, and state and local government transportation-related revenues and expenditures by mode. Content Purpose: These applications will allow you to view the NTAD geographically and download the data in shapefile format.	transportation,NTAD transportation streets roads airports airstrips tunnels railways < <a href="http://transtats.bts.gov/datasummary.pdf">http://transtats.bts.gov/datasummary.pdf</a> >	National	<a href="http://transtats.bts.gov/MappingCenter.asp">http://transtats.bts.gov/MappingCenter.asp</a>

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	Database Title	Organization	Description	Data Products	Spatial Extent	Website
Trans	National Atlas	USGS	The Major Roads of the United States map layer shows the major roads and ferry crossings in the United States that can be represented at a map scale of 1:2,000,000. Most local streets and small roads cannot be portrayed at this scale. The Railroads of the United States map layer shows the major railroads of the conterminous United States and Alaska that can be represented at a map scale of 1:2,000,000. Some small railroads cannot be portrayed at this scale. Descriptive information includes the name of the railroad and the railroad type.	Roads and Railroads	ND by Dust database	<a href="http://nationalatlas.gov/">http://nationalatlas.gov/</a>
Trans Bound	US Census TIGER/Line Files	U.S. Census Bureau	The TIGER/Line files are a digital database of geographic features, such as roads, railroads, rivers, lakes, legal boundaries, census statistical boundaries, etc. covering the entire United States. The data base contains information about these features such as their location in latitude and longitude, the name, the type of feature, address ranges for most streets, the geographic relationship to other features, and other related information. They are the public product created from the Census Bureau's TIGER database. The most recent version is the 2003 TIGER/Line® Files. These files are not graphic images of maps, but rather digital data describing geographic features. To make use of these data, a user must have mapping or GIS software that can import TIGER/Line data. The Census Bureau does NOT provide the TIGER/Line data set in any vendor-specific format. With the appropriate software a user can produce maps ranging in detail from a neighborhood street map to a map of the United States. To date, many local governments have used the TIGER/Line data in applications requiring digital street maps. Also, the private sector has used TIGER/Line data to create products that produce maps for government, business and the general public. THE TIGER/Line PRODUCT DOES NOT INCLUDE DEMOGRAPHIC STATISTICS.	Census Bureau Maps Census 2000 Map Series, Online Mapping, Boundary Files and 2000 Centers of Population Cartographic Boundary Files Generalized boundary files in (.shp), (.e00) and (ASCII) formats. Census 2000 Block Relationship Files Census 2000 Census Tract Relationship Files LandView® A Federal Geographic Data Viewer TIGER/CTS!® Census Tract Street Index® Version 4 A tool for HMDA/CRA reporting.	National, County	<a href="http://www.census.gov/geo/www/tiger">http://www.census.gov/geo/www/tiger</a>
Trans Bound	Binational Border Transportation Planning & Program Process Database	Federal Highway Administration (FHA)	Inventory of Existing Transportation Facilities for Geographic Information Systems (GIS)	National Highway Planning Network (v2.2) Highway Networks -- A zipped network database of major highways and principal arterials in ARC/INFO® interchange (.e00) format. State Boundaries -- These files are in zipped ArcView Shape® (.shp) format. County Boundaries -- These files are in zipped ArcView Shape® (.shp) format.  Mexico GIS Coverages Highway Network -- A zipped network database of major highways and primary roads in ARC/INFO® interchange (.e00) format. Railway Network -- A zipped network database of railway mainlines in ARC/INFO® interchange (.e00) format. Boundaries -- A zipped area database of the shoreline and state borders in ARC/INFO® interchange (.e00) format. Ports -- A zipped point database of major commercial seaports in ARC/INFO® interchange (.e00) format. Airports -- A zipped point database of major commercial airports in ARC/INFO® interchange (.e00) format. Truck/Rail Transfer Facilities -- A zipped point database of major highway-rail intermodal freight terminals in ARC/INFO® interchange (.e00) format. Border Crossings -- A zipped point database of highway and rail border crossing facilities between the United States and Mexico in ARC/INFO® interchange (.e00) format.	US and Mexico	<a href="http://www.fhwa.dot.gov/v/////binational/databank/gis.html">http://www.fhwa.dot.gov/v/////binational/databank/gis.html</a>



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