

# Technical appendix of databases available to assess the vulnerabilities of human communities to oil spills



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Social and Environmental Research Institute  
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## GENERAL

### Title Database: American FactFinder – Community Factsheets

*Agency/organization:* US Census Bureau

***Impacts Addressed: Socioeconomics – community characteristics***

***Factor: Sensitivity***

#### *Description:*

*Abstract:* FactFinder is an online source for population, housing, economic and geographic data that presents the results from four key data programs: Decennial Census, American Community Survey, Economic Census, and Population Estimate Program. Results from each of these data programs are provided in the form of data sets, tables, thematic maps, and reference maps.

*Relevance to spills:* Community fact sheets provide information about community age structure, racial composition, household size, languages spoken, housing types and vacancy rates, education, family income, size of the labor force, individual and household poverty rates. These data provide insight into other stresses on size of the community and workforce, households, potential communication needs, and education levels that may influence public participation.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* First results from 2010 census will be available in February 2011. Varies some places are only covered for 2000, for communities over 20,000 population 3 year averages for 2006-2008, 2009 data are included in some areas.

*Update Frequency:* Varies on the data program

*Geographic Coverage of Data:* Nation, state, counties, metropolitan areas, communities, includes Puerto Rico but not American Samoa, Commonwealth of the Northern Mariana Islands, Guam, and U.S. Virgin Islands.

#### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau conducts many censuses and surveys including: Decennial Census, American Community Survey, Economic Census, Population Estimate Program.

*Sample:* Nationwide

*Data format:* Electronic

*URL:* [http://factfinder.census.gov/home/saff/main.html?\\_lang=en](http://factfinder.census.gov/home/saff/main.html?_lang=en)

Search by city name and state or by zip code

**OR** select on a map at

[http://factfinder.census.gov/jsp/saff/SAFFInfo.jsp?\\_pageId=gn10\\_select\\_state](http://factfinder.census.gov/jsp/saff/SAFFInfo.jsp?_pageId=gn10_select_state)

Allows selection of state, then county or community

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Digital Coast**

*Agency/organization:* NOAA Coastal Services Center

***Impacts Addressed: General Information on Coasts***

***Factor: Exposure, Sensitivity, and Resilience***

### *Description*

*Abstract:* This website provides a well organized point of access to numerous coastal research projects, tools for assessing coastal risks and resources, spatial data for onshore and offshore jurisdictions and resources, navigation charts, and other data collected by numerous federal agencies. The site offers a large collection of specialized tools for mapping and analysis of coastal processes, such as eCoastal, which supports GIS analysis needs of coastal engineers, and a wave exposure model for estimating wave energy and its effects on ecosystem functions, developed coastal and inland-water areas. Many of the tools and approaches are also supported by web-based and other training programs.

*Purpose:* To provide an integrated access point to the many sources of data, training, and tools to support coastal research.

*Relevance to spills:* Most of the data sources here are GIS data related to physical processes and characteristics. Human dimensions data are those collected by the US Census Bureau and Gross Domestic Product of coastal states as collected by the US Bureau of Economic Analysis (BEA). Value is added with clear data specifications, training support, and mapping capabilities.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* current

*Update Frequency:* not stated

*Geographic Coverage of Data:* Much of the information covers the US, but some regional, state, and local projects are also included. Data on the Gross Domestic Product for the coast are aggregated at the state level.

### *Data Sources and Accessibility*

*Source of Data:* diverse research projects and government collection systems

*Sample:* n/a

*Data format:* varies across site, typically many formats are available and GIS coverages are available for export. Census data are available as shapefiles. BEA data is packed in Zip files for geodatabase and layer files.

*URL:* <http://www.csc.noaa.gov/digitalcoast/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* NOAA Coastal Services Center, Charleston, SC

## **Title Database: Spatial Trends in Coastal Socioeconomics**

*Agency/organization:* NOAA – National Ocean Service

***Impacts Addressed: General Information on Coasts***

***Factor: Exposure, Sensitivity, and Resilience***

### *Description*

*Abstract:* This tool generates Quick Reports and maps using several different datasets.

Census 2000 Block Group data for 225 demographic variables and census block data for 93 demographic variables are available for selected coastal jurisdictions including standard political boundaries, place-based management programs such as National Estuarine Reserves, watersheds, floodplains, common coastal county aggregations, and a 50 mile coastal buffer zone.  
<http://marineeconomics.noaa.gov/socioeconomics/qrt/welcome.html>

Bureau of Employment Trends 2001-2007 detailed personal income, earnings, and employment information organized by the North American Industry Classifications System (NAICS) data recalculated to represent standard political boundaries, place-based management programs such as National Estuarine Reserves, HUCs/watersheds, floodplains, common coastal county aggregations, and a 50 mile coastal buffer zone.

Woods and Poole Economic and Demographic Data Projections, 1970-2040. This set includes 42 variables and projections of annual values out to 2040. Variables include population, racial distribution, age distribution, total employment, total earnings, household income brackets, and total retail and food service sales.

NOAA National Survey of Recreation in the Environment (2000). Participation rates, numbers of participants, and number of participant days for 19 coastal recreational activities are reported at *state* and *national* levels only.

*Relevance to spills:* This site provides a quick report capacity to aggregate information and supports a wide variety of spatial units of analysis. More current data for employment and demographics are available directly from agencies in most cases.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* selected coastal jurisdictions including standard political boundaries, place-based management programs such as National Estuarine Reserves, watersheds, floodplains, common coastal county aggregations, and a 50 mile coastal buffer zone.

*Update Frequency:* Information not available

*Geographic Coverage of Data:* All of US, Puerto Rico, Guam



*Data Sources and Accessibility*

*Sources of Data:* See detailed metadata provided with each data set. In some cases, such as Bureau of Economic Analysis data on employment and industries, county data were estimated by prorating state data.

*Sample:* NA

*Data format:* strong data download support for multiple formats

*URL:* <http://marineeconomics.noaa.gov/socioeconomics/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Percy Pacheco, Project Leader

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email: [Percy.Pacheco@noaa.gov](mailto:Percy.Pacheco@noaa.gov)

## **Title Database: US Census Bureau databases**

*Agency/organization:* US Census Bureau

***Impacts Addressed: Social and Economic***

***Factor: Exposure, Sensitivity, Resilience***

### *Description:*

*Abstract:* The US census conducts many surveys on population, economics, housing, program participation, governments, and others Decennial Census, American Community Survey, Economic Census, and Population Estimate Program. Results from each of these data programs are provided in the form of data sets, tables, thematic maps, and reference maps. Starting in December 2010, the census has begun to report 5 year estimates for all communities down to the block group level. These will provide more recent information to better track changes in communities of all sizes.

*Relevance to spills:* The enormous resources gathered by this program are reported in a variety of formats addressed in this summary

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Best known for the decennial census, but there are many ongoing annual and quarterly efforts

*Update Frequency:* Varies on the data program

*Geographic Coverage of Data:* Nation and state summaries are consistently available. Data on counties, metropolitan areas, communities and other smaller units are not always provided. The data can be presented in report and often in mapping formats.

### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau conducts many censuses and surveys

*Sample:* Nationwide, Puerto Rico, and islands including in 2000 American Samoa, Commonwealth of the Northern Mariana Islands, Guam, and U.S. Virgin Islands. The intensity of sampling varies with survey. Estimates of error are typically reported.

*Data format:* diverse digital formats

### *URL:*

[http://factfinder.census.gov/jsp/saff/SAFFInfo.jsp?\\_pageId=censuses\\_surveys&\\_submenuId=&ds\\_name=&ci\\_nbr=&qr\\_name=&industry=](http://factfinder.census.gov/jsp/saff/SAFFInfo.jsp?_pageId=censuses_surveys&_submenuId=&ds_name=&ci_nbr=&qr_name=&industry=)

*Access Constraints:* None, although data reporting strategies protect privacy by limiting the type and degree of detail provided for smaller census units

*Use Constraints:* None

*Contact Information:* US Census Bureau

## VULNERABILITY TO HEALTH IMPACTS

### **Title Database: Center for Disease Control and Prevention (CDC)**

*Agency/organization:* National Center for Health Statistics, CDC

### ***Impacts Addressed: Health – Physical and Mental***

### ***Factor: Sensitivity***

#### *Description:*

*Abstract:* Database of ongoing surveys on topics of public health importance including chronic diseases, disabilities, injury control, workplace hazards, and environmental health.

*Relevance to spills:* There is data on physician office visits, hospital inpatient discharge that can provide information on injuries and acute problems. There is also data on chronic health problems such as asthma, and mental health.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* Varies according to topics

*Update Frequency:* Varies according to topics

*Geographic Coverage of Data:* Nation and statewide

#### *Data Sources and Accessibility and Quality*

*Source of Data:* The Center for disease control and prevention conducts many surveys including: National Health and Nutrition Examination Survey, National Health Care Surveys, National Health Interview Survey, National Immunization Survey, National Survey of Family Growth, National Vital Statistics System, The Longitudinal Studies of Aging, State and Local Area Integrated Telephone Survey

*Sample:* Nationwide

*Data format:* Electronic

*URL:* <http://www.cdc.gov/DataStatistics/>

*Access Constraints:* For some topics, it is necessary to submit a proposal to have access to data.

*Use Constraints:* None

*Contact Information:* [cdcinfo@cdc.gov](mailto:cdcinfo@cdc.gov)

## **Title Database: Community Health Status Indicators**

*Agency/organization:* Center for Disease Control: Geographic Analysis Tool for Health & Environmental Research-GATHER

### ***Indicators Addressed: Health***

#### ***Factor: Sensitivity and Resilience***

##### *Description*

*Abstract:* Provides county level mapping for indicators of access to care, demographic information, environmental health, measures of birth and death, national leading causes of death, preventative services use, risk factors for premature death, summary measures for health, and vulnerable populations.

*Purpose:* Provide information for improving community health

*Relevance to spills:* Environmental health indicators may indicate existing conditions in the community that may be aggravated or exacerbated by odors and volatilization; access to care indicators include designated “Health Professional Shortage Area” where additional medical resources may be needed; Vulnerable populations include those with existing mental health stresses, such as major depression or unemployment, although data these are estimated on 2005 annual averages.

##### *Geographic and Temporal Characteristics*

*Time Period of Content:* Brings together diverse sources of data from 2000 census to more recent surveys and reports

*Update Frequency:* Cannot assess - documentation was published in 2008 and the data were collected earlier.

*Geographic Coverage of Data:* all US at county scale

##### *Data Sources and Accessibility*

*Source of Data:* diverse; some are based on 200 census data adjusted with 2005 population estimates

*Sample:* depends on the indicator, good metadata and documentation are included

*Completeness:* Some data withheld to protect privacy

*Data format:* maps can be drawn in a printer friendly version or data can be printed in a report format

*URL:* <http://gis.cdc.gov/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Geographic Analysis Tool for Health & Environmental Research-GATHER (CDC)

## **Title Database: Health Resources and Services Administration**

*Agency/organization:* Partners in Information Access for the Public Health Workforce, A collaboration of U.S. government agencies, public health organizations and health sciences libraries

### ***Impacts Addressed: Health***

#### ***Factor: Resilience***

#### *Description*

*Abstract:* From the website: Health Professional Shortage Areas (HPSAs) are designated by HRSA as having shortages of primary medical care, dental or mental health providers and may be geographic (a county or service area), demographic (low income population) or institutional (comprehensive health center, federally qualified health center or other public facility).

*Purpose:* Increase information access related to public health concerns

*Relevance to spills:* Indication of local medical support for primary medical and mental health services

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* updated daily from the HRSA's shortage designation system, BHCDANET

*Update Frequency:* Annual

*Geographic Coverage of Data:* national, map on line, provides information on institutions and census tracts at the fine scale <http://datawarehouse.hrsa.gov/DWOnlineMap/MyEnvironmentUI.aspx>

#### *Data Sources and Accessibility*

*Source of Data:* US DHHS, Health Resources and Services Administration

*Data format:* available as maps and tables; also see health professional shortage areas mapping tool – primary care – identifies locations of comprehensive health centers, rural health centers, Indian Health Service facilities and other resources

<http://datawarehouse.hrsa.gov/DWOnlineMap/MapLocation.aspx?mapName=HPSAPC>

*URL:* <http://hpsafind.hrsa.gov/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* None provided

## **Title Database: Health Resources and Services Administration Geospatial Data Warehouse**

*Agency/organization:* Health Resources and Services Administration (HRSA)

***Impacts Addressed: Health***

***Factor: Sensitivity, Resilience***

### *Description*

*Abstract:* From the website: “The Health Resources and Services Administration Shortage Designation Branch develops shortage designation criteria and uses them to decide whether or not a geographic area, population group or facility is a Health Professional Shortage Area or a Medically Underserved Area or Population. (<http://bhpr.hrsa.gov/shortage/>)” Factors considered by the HRSA also include: too few primary care providers, high infant mortality, high poverty and/or high elderly population. The coverage includes general, mental, and dental services. Medically Underserved Areas (MUA) may be a whole county or a group of contiguous counties, a group of county or civil divisions or a group of urban census tracts in which residents have a shortage of personal health services. Medically Underserved Populations (MUPs) may include groups of persons who face economic, cultural or linguistic barriers to health care.

*Purpose:* To identify areas of need for increased general, mental, and dental health care services based on levels of need and availability of medical personnel.

*Relevance to spills:* Indicator of availability and accessibility of medical services

### *Geographic and Temporal Characteristics*

*Time Period of Content:* current

*Update Frequency:* based on applications using latest available data

*Geographic Coverage of Data:* entire US

### *Data Sources and Accessibility*

*Source of Data:* compiled by Health Resources and Services Administration

*Completeness:* more information available at <http://bhpr.hrsa.gov/shortage/muaguide.htm>

*Data format:* map can be printed, but it is not possible to export into a GIS database

*URL:*

<http://datawarehouse.hrsa.gov/DWOnlineMap/MapLocation.aspx?mapName=MUA>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* [sdb@hrsa.gov](mailto:sdb@hrsa.gov) or 1-888-275-4772. Press option 1, then option 2

## **Title Database: Substance Abuse and Mental Health Services Statistics**

*Agency/organization:* Office of Applied Studies / Substance Abuse and Mental Health Services Administration

***Impacts Addressed: Health – Depression – Substance abuse – Anxiety***

***Factor: Sensitivity***

### *Description:*

*Abstract:* OAS provides information on the prevalence and incidence of substance abuse and mental health problems in the United States and the characteristics of those who suffer from these problems. This is a report database. Each report has its own characteristics.

*Relevance to spills:* Some regions have higher rate of depression, substance abuse and anxiety and the spill may have a greater impact.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Varies from reports

*Update Frequency:* Varies from reports

*Geographic Coverage of Data:* Most of reports cover the nation, state and/or Metropolitan/rural area

### *Data Sources and Accessibility and Quality*

*Source of Data:* National Survey on Drug Use and Health collect data through questionnaires and face-to-face interviews.

*Sample:* Nationwide

*Data format:* PDF format

*URL:* <http://www.oas.samhsa.gov/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Through their webpage

## **Title Database: State Health Facts**

*Agency/organization:* Kaiser Family Foundation

***Impacts Addressed: Physical Health –Asthma / Mental Health – Depression – Anxiety  
Factor: Sensitivity***

### *Description:*

*Abstract:* Statehealthfacts.org is designed to provide free, up-to-date, and easy-to-use health data on all 50 states. It covers topics including health status, health covering and uninsured, demographics and economy.

*Relevance to spills:* This database gathers variables from different sources to portray a change in the state of the system. For example, there are interesting data about measures of state economic distress by looking at housing foreclosures, changes in unemployment and food stamp participation.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Varies by topic

*Update Frequency:* Data is updated or added as new data become available

*Geographic Coverage of Data:* Nation and state wide

### *Data Sources and Accessibility and Quality*

*Source of Data:* Data presented are based on a range of public and private sources. Sources include original Kaiser Family Foundation reports, public websites and data, and information purchased from private organizations.

*Sample:* Depend on the source

*Data format:* Electronic form

*URL:* <http://www.statehealthfacts.org/>

*Access Constraints:* None

*Use Constraints:* Public information. In a few cases, the data is copyrighted and the authors have requested that the data not be reproduced without express permission.

*Contact Information:* [statehealthfacts@kff.org](mailto:statehealthfacts@kff.org)



## **Title Database: Wonder**

*Agency/organization:* Center for Disease Control (CDC)

***Impacts Addressed: Health statistics – more state level information***

***Factor: Sensitivity***

### *Description*

*Abstract:* This site provides an ad-hoc query tool to access public health data collected by the CDC. It includes information on prevalence of disabilities, environmental and occupational health, diseases such as asthma, and insurance coverage.

*Purpose:* A system designed to aid in the dissemination of CDC data

*Relevance to spills:* If there are concerns that spilled material will aggravate existing health conditions or be compounded by existing environmental health stresses, this site provides information on the prevalence of these conditions. For example, there are dataset of asthma and lung disease as well as environmental health factors. There are also estimates of population with insurance coverage, if access to medical care is a concern  
(<http://www.census.gov/did/www/sahie/data/2007/tables.html>)

### *Geographic and Temporal Characteristics*

*Time Period of Content:* varies with data set

*Update Frequency:* varies with data set

*Geographic Coverage of Data:* US and, in some instances, territories

### *Data Sources and Accessibility*

*Source of Data:* differs with data set

*Sample:* varies

*Data format:* much of the data is available for digital download, some data sets also have interactive query capabilities.

### *Availability*

*URL:* <http://wonder.cdc.gov/>

*Access Constraints:* none

*Use Constraints:* details provided here <http://wonder.cdc.gov/datause.html>

*Contact Information:* site provides a contact form <http://wonder.cdc.gov/ContactUs.html>

## VULNERABILITY TO SOCIAL IMPACTS

### Title Database: American Community Survey 2005-2009

*Agency/organization:* US Census Bureau

***Impacts Addressed: Social Economic, Health,  
Factor: Exposure, Sensitivity, Resilience***

#### *Description:*

*Abstract:* Relies on sampling methodologies to update decennial census data for communities over 20,000. Data cover economics, demographics, housing, insurance coverage, English language usage. There are 1, 3, and 5 year estimates, with the one year estimates being the most current but only available for communities over 65,000. 3 year reports are averages based on larger samples and are available for communities of 20,000 residents and larger. 5 year averages are available for smaller communities.

*Relevance to spills:* American Community Survey data provide information about community age, race, household, English language use, education, family income, size of the labor force, individual and household poverty rates. Some of these factors influence access to services and relative severity of losses. Reaching non-English speakers with critical information may require expanded communications strategies.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2005-2009

*Update Frequency:* Most recent available data are for 2009

*Geographic Coverage of Data:* The nation, all states and the District of Columbia, all congressional districts, approximately 1,800 counties, and 900 metropolitan and micropolitan statistical areas and others available as reports and through mapping. The Puerto Rico Community survey collects similar information.

#### *Data Sources and Accessibility and Quality*

*Source of Data:* Survey and sampling, the censUS es techniques to introduce uncertainty in small areas in order to protect individual privacy

*Sample:* Nationwide

*Data format:* Electronic

#### *URL:*

[http://factfinder.census.gov/servlet/DatasetMainPageServlet?\\_lang=en&\\_ts=310726472640&ds\\_name=ACS\\_2009\\_5YR\\_G00\\_&\\_program=](http://factfinder.census.gov/servlet/DatasetMainPageServlet?_lang=en&_ts=310726472640&ds_name=ACS_2009_5YR_G00_&_program=)

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Fishing Communities of the U.S., 2006**

*Agency/organization:* National Marine Fisheries Service

### ***Impacts Addressed: Socioeconomic - Fisheries***

#### ***Factor: Sensitivity and Resilience***

#### *Description*

*Abstract:* From the website “*Fishing Communities of the U.S., 2006* is the first volume in this new periodic series. It reports descriptive demographic data on a subset of each coastal state’s commercial fishing communities and ports, as well as descriptive geographic information and other social indicator data for each state. It is a companion to *Fisheries Economics of the U.S., 2006*. The purpose of the publication is to provide the public with easily accessible information about the Nation’s fishing communities and the states where they are located. Up to ten communities and ports per state were selected by experts in each region primarily on the basis of commercial landings data for 2006. These communities are not necessarily “fishing communities” as defined by the Magnuson-Stevens Fishery Conservation and Management Act.”

*Purpose:* To provide easily accessible data on fishing communities in the US

*Relevance to spills:* Impacts on fisheries often have a variety of cultural, social, economic, and health impacts on fishers and their communities

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* Based on 2006 data

*Update Frequency:* Description suggests that there are updates intended, but none are available yet.

*Geographic Coverage of Data:* US coastal states, up to 10 communities and ports primarily based on landing data.

#### *Data Sources and Accessibility*

*Source of Data:* From the publication, “various NMFS field offices (Fisheries Science Centers and Regional offices) in cooperation with various state agencies and interstate Marine Fisheries Commissions. Other sources of data include the U.S. US Census Bureau, Bureau of Labor Statistics, Environmental Protection Agency, Federal Emergency Management Agency, World Atlas, and the CIA World Fact Book”.

*Sample:* Up to ten communities and ports were selected per state

*Data format:* Report published in PDF available on line; tables also available online

*URL:* [http://www.st.nmfs.noaa.gov/st5/publication/fisheries\\_communities\\_2006.html](http://www.st.nmfs.noaa.gov/st5/publication/fisheries_communities_2006.html)

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Dr. Susan Abbott-Jamieson, [Susan.Abbott-Jamieson@noaa.gov](mailto:Susan.Abbott-Jamieson@noaa.gov)  
Economic and Sociocultural Analysis Division, (F/ST5)

## **Title Database: Fishery Management Council**

*Agency/organization:* Fishery Management Councils

### ***Impacts Addressed: Socioeconomics – Fisheries***

#### ***Factor: Exposure, sensitivity***

*Description:* There are eight regional fishery management councils for the United States. These councils manage species regionally and participate in international management organizations for migratory fish stocks within their regions. Data on fishing communities is quite sparse. For more information on non-economic social science needs for fisheries management, see the white paper developed by the Pacific Fishery Management Council, available at <http://www.pcouncil.org/habitat-and-communities/fishing-communities/>

*Abstract:* The 8 fishery management councils collect relevant data sets including those on local fisheries, number of boats licensed and marine-sensitive areas. The data will be available in fishery management plans of each species. That other data on the fishing industry might be available upon request. Contacts to the permitting offices are provided.

*Relevance to spills:* Provides information on number of boat permits, fishing areas, landing

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* Varies

*Update Frequency:* Varies

*Geographic Coverage of Data:* Varies

#### *Data Sources and Accessibility and Quality*

*Source of Data:* Data is collected by the councils

*Sample:* NA

*Data format:* Electronic and paper

*URL:* [http://www.nmfs.noaa.gov/sfa/reg\\_svcs/councils.htm](http://www.nmfs.noaa.gov/sfa/reg_svcs/councils.htm)

*Access Constraints:* The website contents public information. However, some additional data might be accessible upon request

*Use Constraints:* Depends on the data desired

*Contact Information:* Through each council's webpage

## **Title Database: Marine Recreational Information Program**

*Agency/organization:* National Marine Fisheries Service, NOAA

***Impacts Addressed: Economic – Recreational activities***

***Factor: Sensitivity***

### *Description:*

*Abstract:* Data on economic impacts, economic value, assessment of management options, for-hire cost, earnings, and special topics including subsistence fishing. There are 2 subsistence use surveys reported. The surveys are for the Northeast covering 1996-1997 and 2004.

*Relevance to spills:* There are two components of value lost when there is an oil spill or some other environmental damage: use value and non-use or existence value. The valuation models quantify the value of recreational access, which is a large part of the use value when a spill shuts down a beach or other coastal area. Often, this data is the only periodically collected data available to look at use values.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Expenditure data: Northeast 1998, 2000 (trip expenditures only); Southeast 1999, 2004 (trip expenditures only); Pacific Coast 2000; Caribbean 2004; Nationwide 2006 (AK, TX, and HI included for the first time) Valuation data: Northeast 1994, 1996, 1998, 1999, 2000, 2004; Southeast 1997, 1999, 2000, 2003; Pacific Coast 1998, 2001; Caribbean 2004

*Update Frequency:* Depends on state and species

*Geographic Coverage of Data:* States mentioned above

### *Data Sources and Accessibility and Quality*

*Source of Data:* NMFS conducts surveys

*Sample:* NA

*Data format:* Electronic, PDF

*URL:* <http://www.nmfs.noaa.gov/sfa/PartnershipsCommunications/recfish/recfishing.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* National Marine Fisheries Service

## **Title Database: National Ocean Economics Program**

*Agency/organization:* National Ocean Economics Program, NOAA Impacts

***Impacts Addressed: Economics***

***Factor: Sensitivity***

### *Description:*

*Abstract:* National Ocean Economics Program provides a full range of the most current economic and socio-economic information available on changes and trends along the U.S. coastal states, counties, and coastal regions. The Ocean and Coastal Economics features support queries of state and some county data that disaggregates

*Relevance to spills:* Data on coastal industry including tourism, leisure, hospitality, transport, manufacturing, administration. However, data are drawn from the US Bureau of Labor Statistics and in some places aggregates the fishing industry with mining and forestry. The site also includes a library of environmental and recreational non-market valuation studies.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Data are available from 1990 to the most recent year in which the federal data sources are available.

*Update Frequency:* Based on availability of federal data sources

*Geographic Coverage of Data:* Nationwide, coastal states, counties and near shore and adjacent portions of counties

### *Data Sources and Accessibility and Quality*

*Source of Data:* Quarterly Census of Employment and Wages, Bureau of Labor Statistics, Bureau of Economic Analysis

*Sample:* Nationwide

*Data format:* Electronic, Excel

*URL:* <http://www.oceaneconomics.org/>

*Access Constraints:* Registration is required to access some documents.

*Use Constraints:* None

*Contact Information:* Dr. Judith T. Kildow; [Judy@OceanEconomics.org](mailto:Judy@OceanEconomics.org); Director, National Ocean Economics Program

## VULNERABILITY TO CULTURAL IMPACTS

### **Title Database: National Archeological Database**

*Agency/organization:* National Park Service

### ***Impacts Addressed: Cultural Resource Damage***

### ***Factor: Exposure***

#### *Description*

- Abstract:* The National Archeological Database provides a searchable reports module which allows investigation of an expanded bibliographic inventory of over 350,000 reports on archeological investigation and planning. Most of these reports are of limited circulation. The database can be searched by state and county. The output is a list of publications including information on where copies of these limited circulation documents may be reviewed.
- Purpose:* The National Archaeological Database (NADB) effort was established to improve nationwide access to information on archeological activities.
- Relevance to spills:* Identifies sources of information on the presence of archeological sites.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* up to 2004

*Update Frequency:* Reports last updated in August 2004

*Geographic Coverage of Data:* Includes Puerto Rico and territories

#### *Data Sources and Accessibility*

*Source of Data:* State Historic Preservation Officers and federal agencies

*Sample:* NA

*Data format:* searchable database generates a webpage with a standard or extended bibliography

*URL:* <http://cast.uark.edu/other/nps/nadb/index.html/>

*Access Constraints:* none, but provides bibliography and information on document location only.

*Use Constraints:* none

*Contact Information:* National Park Service, Terry Childs [terry\\_childs@nps.gov](mailto:terry_childs@nps.gov)

## **Title Database: National Historic Landmarks Program**

*Agency/organization:* National Park Service

### ***Impacts Addressed: Cultural Resource Damage***

#### ***Factor: Exposure, Sensitivity***

#### *Identification*

#### *Description*

*Abstract:* National Historic Landmarks are historic places designated by the Secretary of the Interior in recognition of nationally significant value or quality in illustrating and/or interpreting the heritage of the United States. There are approximately 2,500 currently listed. This site allows searches by state and city for national historic landmarks. These may include sites, structures, objects, or districts. A description of the resource and its current status are linked to the list. The site does not include specific information on locations of these resources within cities. Additional state level information is available through the State Historic Preservation Officers (SHPOs). This website provides contact information for the SHPOs <http://www.ncshpo.org/find/index.htm>.

*Purpose:* Provide information on National Historic Landmarks and their condition.

*Relevance to spills:* These are valued cultural and historical resources that may be exposed and damaged by spill activities. Deterioration may make some sites particularly vulnerable.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* current

*Update Frequency:* unknown

*Geographic Coverage of Data:* includes territories

#### *Data Sources and Accessibility*

*Source of Data:* Applications for designation

*Sample:* NA

*Data format:* on line report

*URL:* <http://tps.cr.nps.gov/nhl/>

*Access Constraints:* none

*Use Constraints:* none

*Contact Information:* Heritage Preservation Services, [NHL\\_info@nps.org](mailto:NHL_info@nps.org)



## **Title Database: National Register of Historic Places**

*Agency/organization:* National Park Service

### ***Impacts Addressed: Cultural Resource Damage***

#### ***Factor: Exposure, Sensitivity***

##### *Description*

- Abstract:* This site offers an advanced search tool that can search for areas of significance to Native Americans by state and other attributes. It identifies the resource and the tribe associated with it. Additional assistance may be available from the Tribal historic preservation officers.
- Purpose:* to provide easy access to information on places listed on the National Register of Historic Places.
- Relevance to spills:* These sites are of special cultural significance and addressing threats to them should involve the National Park Service and representatives of Tribal Governments.

##### *Geographic and Temporal Characteristics*

- Time Period of Content:* current
- Update Frequency:* not specified
- Geographic Coverage of Data:* US

##### *Data Sources and Accessibility*

- Source of Data:* sites listed on the Register of National Historic Places
- Sample:* NA
- Data format:*
- URL:* <http://nrhp.focus.nps.gov/natregadvancedsearch.do?searchtype=natregadvanced>
- Access Constraints:* none
- Use Constraints:* none
- Contact Information:* National Park Service

# VULNERABILITY TO ECONOMIC IMPACTS

## Economic – Employment

### **Title Database: Employment – Unemployment**

*Agency/organization:* US Bureau of Labor Statistics

### ***Impacts Addressed: Economics – Employment***

#### ***Factor: Sensitivity***

#### *Description:*

*Abstract:* This database provides a comprehensive body of data on the: labor force, employment and unemployment. There is a tutorial available to assist in creating customized tables using multiple data sources  
[http://www.bls.gov/tutorial/multi\\_screen/](http://www.bls.gov/tutorial/multi_screen/).

*Relevance to spills:* Employment and unemployment databases are updated monthly. They provide an indication of the current economic well-being and maybe analyzed to show changes in the state of the system that might be attributable to the spill. See for example, analysis related to the Gulf Oil spill [http://www.bls.gov/sae/gulf\\_coast.htm](http://www.bls.gov/sae/gulf_coast.htm).

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 1949 to present (some data covers only 1999 to present)

*Update Frequency:* Monthly (quarterly and annual averages and longer time series are available); regional and state employment data lag 2 to 3 weeks after the end of the month. Local area statistics lagged by 5 weeks at time of review.

*Geographic Coverage of Data:* Nation, state and local and regional.

#### *Data Sources and Accessibility and Quality*

*Source of Data:* Surveys conducted by the Bureau of Labor Statistics

*Sample:* approximately 410,000 work sites for all 50 states, the District of Columbia, Puerto Rico, Virgin Islands, and approximately 400 metropolitan areas and divisions.

*Data format:* PDF, text, and custom searches

*URL:* <http://www.bls.gov/sae/home.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* See website

## **Title Database: Non-Employer Statistics**

*Agency/organization:* US Census Bureau

### ***Indicators Addressed: Economics - Employment***

### ***Factor: Sensitivity***

#### *Description:*

*Abstract:* Nonemployer Statistics includes most industries covered by the Economic Census. The series includes the agriculture, forestry, fishing and hunting industry with the exception of crop and animal production. The agriculture, forestry, fishing and hunting sector are not covered in other US Census Bureau economic programs, including the Economic Census. Nonemployers are typically self-employed individuals operating very small businesses, which may or may not be the owner's principal source of income. (source: <http://www.census.gov/econ/nonemployer/intro.htm>) Aggregates numbers of establishments, employees, and payroll among forestry, fishing, hunting, and agricultural support industries. Data are not disclosed for small industrial sectors.

*Relevance to spillovers:* Provides information on types and scale of small nonemployee businesses

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2008 data were released in July 2010.

*Update Frequency:* 2009 data are scheduled for release in 2011

*Geographic Coverage of Data:* nationwide for states, counties, metropolitan, and micropolitan areas (smallest community 10,000 people)

#### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau conducts many censuses and surveys

*Sample:* Nationwide

*Data format:* Electronic, comma delimited format available for download

*URL:* <http://www.census.gov/econ/nonemployer/> - self-employed or no paid employees

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Local Employment Dynamics, State Partners**

*Agency/organization:* US Census Bureau, Local Employment Dynamics

### ***Impacts Addressed: Economics – Employment***

#### ***Factor: Sensitivity***

##### *Description:*

*Abstract:* Links to state labor and employment offices where there is recent data on local employment dynamics

*Relevance to spills:* Provides insight into recent change in employment conditions in communities; the state sites also provide information on local employment by occupation, and local wage rates, usually by county and occupation.

##### *Geographic and Temporal Characteristics*

*Time Period of Content:* varies by state

*Update Frequency:* some data are updated monthly, others quarterly, annual averages and trends are also typically provided. Typically, employment rates are reported monthly while wage rates are reported quarterly.

*Geographic Coverage of Data:* varies by state, many states also show jurisdictions of workforce investment areas or economic development areas

##### *Data Sources and Accessibility and Quality*

*Source of Data:* State departments of labor and employment

*Sample:* As of December 2010, all states are producing this information except Puerto Rico and Massachusetts, which are pending production, and New Hampshire, which is not yet a partner state.

*Data format:* Electronic

*URL:* <http://lehd.did.census.gov/led/led/statepartners.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Quarterly Workforce Indicators**

*Agency/organization:* US Census Bureau, Local Employment Dynamics

***Impacts Addressed: Economics- Employment***

***Factor: Sensitivity***

### *Description:*

*Abstract:* To provide data on to develop new information about local labor market conditions

*Relevance to spills:* Provides insight into recent change in employment conditions in communities

### *Geographic and Temporal Characteristics*

*Time Period of Content:* quarterly – 2009 - Q4 most recent available in 2010 Dec 1.

*Update Frequency:* quarterly

*Geographic Coverage of Data:* Nation, state, counties

### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau

*Sample:* Nationwide

*Data format:* Electronic, online tables

*URL:* <http://lehd.did.census.gov/led/datatools/qwiapp.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Quarterly Workforce Indicators Online [NAICS]**

*Agency/organization:* US Census Bureau

***Impacts Addressed: Economic - Employment***

***Factor: Sensitivity***

### *Description:*

*Abstract:* QWI Online provides information on total employment by NAICS sector, measures of change such as job flow, new hires, and separations, and average earnings. By combining data from different administrative sources, censuses and surveys, the US Census Bureau produces local employment information that was not available before.

*Relevance to spills:* This data is helpful in identifying sectors which have experienced chronic stress or those that are newly expanding.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Time series for each state varies depending on data availability, data are quarterly

*Update Frequency:* When data becomes available

*Geographic Coverage of Data:* Available at the county and metro area level, but does not covers all the states

### *Data Sources and Accessibility and Quality*

*Source of Data:* voluntary Local Employment Dynamics (LED) partnership, state Labor Market Information (LMI) agencies, the US Census Bureau

*Sample:* Unknown

*Completeness:* Does not cover all the states

*Data format:* Electronic, can be downloaded

*URL:* <http://lehd.did.census.gov/led/datatools/qwiapp.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Economic - Industries**

### **Title Database: Fisheries Economics of the US**

*Agency/organization:* NOAA Fisheries: Office of Science & Technology

#### ***Impacts Addressed: Economics – Industries - Fisheries***

#### ***Factor: Exposure, Sensitivity***

#### *Description*

*Abstract:* From the website, ” These reports cover a ten year time period and include descriptive statistics on commercial fisheries landings, revenue, and price trends; recreational fishing effort, participation rates, and expenditure information; and employer and non-employer establishment, payroll, and annual receipt information for fishing-related industries. The economic impact of commercial and recreational fishing activities in the U.S. is also reported in terms of employment, sales, and value-added impacts.”

*Purpose:* provide an easily accessible resource on US fisheries

*Relevance to spills:* Provides information on the degree of community economic dependency on fisheries related enterprises

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2006-2008 thus far

*Update Frequency:* 2008 data became available in 2010

*Geographic Coverage of Data:* US coastal and regional fisheries

#### *Data Sources and Accessibility*

*Sources of Data:* See references in publication

*Sample:* Unknown

*Data format:* Published report

*URL:* [http://www.st.nmfs.noaa.gov/st5/publication/fisheries\\_economics\\_2008.html](http://www.st.nmfs.noaa.gov/st5/publication/fisheries_economics_2008.html)

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Please direct comments and questions to Rita Curtis ([rita.curtis@noaa.gov](mailto:rita.curtis@noaa.gov)) for commercial fisheries and marine economy data, and Sabrina Lovell ([Sabrina.Lovell@noaa.gov](mailto:Sabrina.Lovell@noaa.gov)) for recreational fisheries data.

## **Title Database: 2009 U.S. Travel and Tourism Statistics (Inbound)**

*Agency/organization:* Office of Travel and Tourism Industries, International Trade Administration, Department of Commerce

***Impacts Addressed: Economic – Industries - Tourism***

***Factor: Exposure***

### *Description*

*Abstract:* This office produces market analysis on international travel statistics to and from the United States. We also provide market analysis information that highlights the state, city and territory level; and also country specific analysis on visitors to the U.S. and U.S. travelers abroad

*Purpose:* Provide market analysis to the tourism industry

*Relevance to spills:* Indication of the level of international tourism to some major ports and airports

### *Geographic and Temporal Characteristics*

*Time Period of Content:* available on line back to 2007

*Update Frequency:* Annual reports provide information on inbound destinations

*Geographic Coverage of Data:* US

### *Data Sources and Accessibility*

*Source of Data:* International arrivals and air traffic databases from the Department of Homeland Security

*Sample:* not available

*Data format:* PDF

*URL:*

[http://tinet.ita.doc.gov/outreachpages/inbound.general\\_information.inbound\\_overview.html](http://tinet.ita.doc.gov/outreachpages/inbound.general_information.inbound_overview.html)

*Access Constraints:* Aggregated data for top states, regions, and cities are reported

*Use Constraints:* additional analyses may be purchased

*Contact Information:* see <http://tinet.ita.doc.gov/about/index.html>



## **Economic - Infrastructure**

### **Title Database: Tracking Marine Renewable Energy map**

*Agency/organization:* NOAA Fisheries: Office of Science & Technology

***Impacts Addressed: Economics - Infrastructure - Energy***

***Factor: Exposure***

#### *Description*

*Abstract:* This map represents current permitting processes for marine renewable energy resources.

*Purpose:* To identify potential impacts of renewable energy projects on marine resources.

*Relevance to spills:* Provides information on resources at risk or those that may be placed at risk

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* Updated in April 2010 based on agency databases

*Update Frequency:* Unstated

*Geographic Coverage of Data:* nationwide

#### *Data Sources and Accessibility*

*Source of Data:* Based on FERC and MMS data sources

*Sample:* NA

*Data format:* map

*URL:* <http://www.habitat.noaa.gov/protection/renewable/index.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Benjamin.Baron-Taltre@noaa.gov

## **Title Database: Lock Characteristics**

*Agency/organization:* US Army Corps of Engineers

***Impacts Addressed: Economic – Infrastructure – Navigation***

***Factor: Sensitivity***

### *Description:*

*Abstract:* From the website, “This system contains information on the physical aspects of all U. S. Army Corps of Engineers built, maintained, owned or operated locks that includes six major characteristics: location, physical characteristics, site information, site characteristics, management information and historical changes.”

*Relevance to spills:* Information relevant to navigation and level of possible disruption

### *Geographic and Temporal Characteristics*

*Time Period of Content:* 1992 to present

*Update Frequency:* Ongoing (last revision 1/11/2010)

*Geographic Coverage of Data:* U.S. Inland Ports and Waterways

### *Data Sources and Accessibility and Quality*

*Source of Data:* Surveys conducted by engineers from the Navigation Data Center.

*Sample:* All Army Corps of Engineers built, maintained, owned or operated locks

*Data format:* Excel, text, or database (.dbf) format

*URL:* <http://www.iwr.usace.army.mil/ndc/data/data/lck.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* U.S. Army Corps of Engineers CEIWR-NDC, Alexandria, Virginia

## **Economic - Local**

### **Title Database: County Business/MetroBusiness/Zip Code Business Patterns**

*Agency/organization:* US Census Bureau

***Impacts Addressed: Economics – Local***

***Factor: Sensitivity***

#### *Description:*

*Abstract:* Information on economic activity data on establishments employing people are reported separately from data on establishments with no paid employees. Aggregates numbers of establishments, employees, and payroll among forestry, fishing, hunting, and agricultural support industries. Data are not disclosed for small industrial sectors. Also see Non-employer Statistics

*Relevance to spills:* Information on the number of establishments and employees in potentially vulnerable sectors.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2008 data were released in July 2010

*Update Frequency:* 2009 community data are expected in June 2011; 2009 zip code data are scheduled for release in August 2011

*Geographic Coverage of Data:* for the nation at State, County, zip code, and metropolitan scales

#### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau conducts many censuses and surveys including: Decennial Census, American Community Survey, Economic Census, and Population Estimate Program.

*Sample:* Nationwide

*Data format:* Diverse electronic formats

*URL:* <http://www.census.gov/econ/cbp/index.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

## **Title Database: Community Economic Development HotReport**

*Agency/organization: US Census Bureau*

***Impacts Addressed: Economic – Local***

***Factor: Exposure, Sensitivity, Resilience***

### *Description:*

*Abstract:* “For areas that experience economic disruptions due to natural disasters, plant closings, base closings, and other economic changes, such as abrupt increases in employment, this HotReport shows pertinent economic indicators in unified on-line reports from many data sources.” (from the home page URL above)

*Relevance to spills:* The report function brings together many relevant economic and demographic indicators for places experiencing economic disruption, such as a disaster, but the assemblage of data is not the most recent available.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* most recent available reports

*Update Frequency:* some variables are updated with the decennial census (2000), American Community Survey (2005 sample) other data are updated more frequently, but may also date to 2002, 2004, and so on. Unemployment statistics are drawn from 2004. Poverty, household income, educational achievement data are from the 2000 census long form.

### *Data Sources and Accessibility and Quality*

*Source of Data:* The US Census Bureau, various surveys

*Sample:* Nationwide

*Data format:* webpage with multiple tabs, has a print friendly function and links to original sources of data

*Geographic Coverage of Data:* nationwide at multiple scales

*URL:*

[http://smpbff2.dsd.census.gov/TheDataWeb\\_HotReport/servlet/HotReportEngineServlet?emailname=whazard@census.gov&filename=ed\\_home.html](http://smpbff2.dsd.census.gov/TheDataWeb_HotReport/servlet/HotReportEngineServlet?emailname=whazard@census.gov&filename=ed_home.html)

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Census Bureau

See example on following page

Example, reports 2004 data on employment in top industries  
 Selected Top Industries in Plaquemines Parish, Louisiana  
 (by Number of Employees)

|  | <b>Employees</b> |
|--|------------------|
| Support Activities for Water Transportation  | 593              |
| Support Activities for Mining  | 519              |
| Building Equipment Contractors   | 365              |
| Commercial and Industrial Machinery and Equipment Rental and Leasing                                 | 356              |
| Machinery, Equipment, and Supplies Merchant Wholesalers  | 353              |
| Oil and Gas Extraction   | 309              |
| Other Heavy and Civil Engineering Construction   | 279              |
| Architectural, Engineering, and Related Services   | 272              |
| Deep Sea, Coastal, and Great Lakes Water Transportation  | 272              |
| Grocery Stores   | 261              |
| Limited-service eating places  | 247              |
| Inland water transportation  | 219              |
| Gasoline stations  | 215              |
| Accounting, Tax Preparation, Bookkeeping, and Payroll Services                                       | 174              |
| Commercial and Industrial Machinery and Equipment (except Automotive and Electronic) Repair and Main | 159              |
| General freight trucking   | 115              |
| Nonscheduled air transportation  | 114              |
| Depository credit intermediation   | 96               |

Data Sponsored By: [U.S. US Census Bureau - Economic Programs](#)

\*\*Data Source: [CBP//County Level/2004](#)

## **Title Database: Regional Economic Accounts, Local Area Personal Income**

*Agency/organization:* Bureau of Economic Analysis (BEA)

***Impacts Addressed: Economic - Local***

***Factor: Sensitivity***

### *Description:*

*Abstract:* BEA reports data at a variety of regional and local units, including Metropolitan Statistical Abstract, and counties. Among the local area personal income data sets are CA06—Compensation by industry and CA25—Total employment by industry.

*Relevance to spills:* This offers a general indication of the economic well-being dependency on resources and the context which may ease or exacerbate impacts.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* Mostly 1999 to present

*Update Frequency:* Estimates of GDP by state—the most comprehensive and BEA’s preferred measure of economic activity—are released six months after the reference year. Estimates of personal income by state are released each quarter, as well as annually. Estimates of personal income by county and metropolitan area are prepared annually.

Local Area Personal Income statistics for 2008 were updated in April 2010. The release schedule is posted at [http://www.bea.gov/newsreleases/news\\_release\\_sort\\_regional.htm](http://www.bea.gov/newsreleases/news_release_sort_regional.htm).

*Geographic Coverage of Data:* BEA’s Regional Economic Accounts program produces detailed data on economic activity by region, state, metropolitan area, BEA economic area, and county.

### *Data Sources and Accessibility and Quality*

*Source of Data:* Varies from programs

*Sample:* Nationwide

*Data format:* Electronic maps and exportable tables available

*URL:* <http://www.bea.gov/regional/reis/>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Through the website

## **Economic - Navigation**

### **Title Database: Commodity Tonnage at Key Locks**

*Agency/organization:* US Army Corps of Engineers, Institute for Water Resources, Navigation Data Center

#### ***Indicators Addressed: Economic – Navigation***

#### ***Factor: Sensitivity and impacts***

#### *Description:*

*Abstract:* Provides annual data on vessel traffic, commodity tonnage, and other statistics for all locks on an annual basis. For 11 key locks, monthly statistics are reported.

*Relevance to spills:* Provides information on amount of traffic and types of commodities being moved. Information relevant to navigation and level of possible disruption For Key locks, there is some information on seasonal differences.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2009 for annual reports and Sept. 2010 for monthly reports (accessed 29 November 2010)

*Update Frequency:* Annual; monthly

*Geographic Coverage of Data:* 11 Major US Locks (Arkansas River: Norrell Lock; Columbia River: Bonneville Lock; Calicasieu Lock And Inner Harbor Navigation Canal Lock; Illinois River: LaGrange Lock; , Kanawha River: Winfield Main one, two, and the new 800 chamber Winfield Main 800; Mississippi River: Lock 25, Lock 27, and Lock 27 Auxiliary One; Ohio River: Lock 52 and Lock 52 Auxiliary One; Tennessee River: Kentucky Lock; Tombigbee River: Demopolis Lock)

#### *Data Sources and Accessibility and Quality*

*Source of Data:* U.S. Army Corps of Engineers

*Sample:* US waterways and ports

*Data format:* online tables

*URL:* <http://www.ndc.iwr.usace.army.mil//lpms/lpms.htm>

*Access Constraints:* none

*Use Constraints:* None

*Contact Information:* Navigation Data Center, US ACOE

## **Title Database: Regional Navigation Notices**

*Agency/organization:* US Army Corps of Engineers

### ***Impacts Addressed: Economic – Navigation***

#### ***Factor: Sensitivity***

#### *Description*

*Abstract:* This page links to regional information on projects that may affect navigation. For example, see the Mobile District navigation page <http://navigation.sam.usace.army.mil/docs/index.asp?type=nn> . Provides information on point of contact for the project. Specific website organization varies by region.

*Purpose:* Notify users of potential impacts on navigation.

*Relevance to spills:* Provides information on potentially exposed activities and additional stresses on waterway uses. Also provides project point of contact.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* varies by region

*Update Frequency:* As information becomes available

*Geographic Coverage of Data:* U.S. Coastal and Inland Waterways

#### *Data Sources and Accessibility*

*Source of Data:* US ACOE districts

*Sample:* All district offices

*Data format:* Web page organization varies by district

*URL:* <http://www.ndc.iwr.usace.army.mil/navchart/navmap.htm>

*Access Constraints:* none

*Use Constraints:* none

*Contact Information:* US ACOE Navigation Data Center



## **Title Database: Dredging Information System**

*Agency/organization:* US Army Corps of Engineers

***Indicators Addressed: Economic – Navigation***

***Factor: Sensitivity***

### *Description*

*Abstract:* This file contains information on each awarded dredging contract advertised by the Corps of Engineers. For each record, the file contains fiscal year, Corps of Engineers District, and name of dredging location, representative latitude and longitude of the dredging area, units of contract measurement, the estimated number of units, the quantity of dredged material in cubic yards (the equivalent cubic yards if the units were not cubic yards, i.e. hours), type of dredge used, class of work, type of material disposal, dates of bid advertisement, opening and contract award, small business set aside restrictions, government estimate, number of bidders, winning bid, winning bidder, city, state and small business status of winner.

*Purpose:* Provide access to information on contracts.

*Relevance to spills:* This database provides information on the expected location of dredging and duration of work. It also provides the name of the business executing the contract.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* FY 1990 to 2009

*Update Frequency:* Last entries 2009 (accessed 11/30/2010) as data becomes available

*Geographic Coverage of Data:* U.S. Coastal and Inland Waterways

### *Data Sources and Accessibility*

*Source of Data:* Data entered at each Corps of Engineers District into the central database

*Sample:* All contracts nationwide

*Data format:* Relational Database Management System, ORACLE, exported to Text or Excel

*URL:* <http://www.iwr.usace.army.mil/ndc/data/datadrg.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US ACOE Navigation Data Center

## **Title Database: Waterborne Commerce Statistics Center**

*Agency/organization:* US Army Corps of Engineers

### ***Impacts Addressed: Economic – Navigation***

### ***Factor: Sensitivity***

#### *Description:*

*Abstract:* Collects and publishes statistical data on waterborne commerce and vessel operations in waterways, ports, and harbors of the United States, Puerto Rico, and the U.S. Virgin Islands. That includes domestic and foreign vessel trips and tonnages by commodity by ports and waterways.

*Relevance to spills:* Amount and type of waterborne traffic; Recent trends in activity; Other unexpected expenses.

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* 2003 to present

*Update Frequency:* Continually updated to produce monthly and quarterly national summaries. The annual reports summarize trips and tonnage by ports and waterways. (2007 data posted between 6-10/2009; preliminary 2008 data posted 9/2009)

*Geographic Coverage of Data:* U.S. Coastal, Inland Ports and Waterways

#### *Data Sources and Accessibility and Quality*

*Source of Data:* Data relies on vessel operating companies that report domestic waterborne commercial movements to the ACOE under Federal law

*Sample:* All vessels navigating in U.S. waters

*Data format:* Hard copy and electronic form (PDF)

*URL:* <http://www.iwr.usace.army.mil/ndc/wcsc/wcsc.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Waterborne Commerce Statistics Center, New Orleans, LA

# VULNERABILITY TO LOSSES OF EXPERIENCE AND USE OF THE NATURAL ENVIRONMENT

## **Title Database: Damage Assessment, Remediation, and Restoration Program (DARRP)**

*Agency/organization:* National Oceanic and Atmospheric Administration

***Impacts Addressed: Quality of the Environment***

***Factor: Sensitivity***

### *Description:*

*Abstract:* Database of cases related to hazardous materials spills and oil spills. The database provides information on both current priority sites and past cases. Each case contains information on natural resource damage assessment and restoration as well as documentation available to public including: public involvement, remedial/injury assessment, restoration activities, case team contacts, and additional links.

*Relevance to spills:* Gives information on previous events that might have recorded details on a community's' sensitivities.

### *Geographic and Temporal Characteristics*

*Time Period of Content:* 1989 to present

*Update Frequency:* Continually

*Geographic Coverage of Data:* Nation

### *Data Sources and Accessibility and Quality*

*Source of Data:* Personnel investigating the incidents

*Sample:* Nation wide

*Completeness:* The database only contains selected cases that are representative of the Program's accomplishments.

*Data format:* Electronic

*URL:* <http://www.darrp.noaa.gov/index.html>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* NOAA's Damage Assessment Remediation and Restoration Program

## **Title Database: Marine Casualty and Pollution Investigations**

*Agency/organization:* U.S. Coast Guard, Office of Marine Safety, Security and Environmental Protection Database Administration Branch (G-PRI-1)

### ***Impacts Addressed: Quality of the Environment***

#### ***Factor: Sensitivity***

#### *Identification*

#### *Description:*

*Abstract:* The Marine Investigations Module captures case information in a chain of events, recording event-related information in specific supplements relating to that event. These files are a flat file representation of specific event-related data. For example, each record in Activity file contains common data for casualty and pollution activities. Vessel and Facility events files contain the event timeline in a causality or pollution incident. There are three pollution files that provide details on marine pollution events involving vessels, facilities and other pollution sources.

*Relevance to spills:* The number of previous pollution incidents may be an indicator of sensitivity due to repeated exposure or resilience if past events have led to increased emphasis on preparedness

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* Mid December 2006 to December 31, 2007

*Update Frequency:* Data are only available for 2007

*Geographic Coverage of Data:* U.S. Coastal, Inland Ports and Waterways

#### *Data Sources and Accessibility and Quality*

*Source of Data:* U.S. Coast Guard personnel investigating the incidents

*Sample:* The data in these eight files are from completed cases from known vessels or facilities. Cases which do not meet reporting criteria or are not marine safety related are not included in these listings.

*Completeness:* USCG relies on the USCG personnel investigating the incidents. They estimate that the data entered and completed for calendar year 2007 are 97% complete.

*Data format:* Excel, text, or database (.dbf) format

*URL:* <http://www.iwr.usace.army.mil/ndc/data/datauscg.htm>

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* Commandant (G-PRI-1), U.S. Coast Guard, Washington, DC

## **Title Database: National Survey of Fishing, Hunting, and Wildlife-Associated Recreation (FHWAR)**

*Agency/organization:* Collected by the US Census Bureau on behalf of the US Fish and Wildlife Service

***Indicators Addressed: Experience and Use of Natural Environment***

***Factor: Exposure***

### *Description*

*Abstract:* From the website “Presents microdata records (with any information that might identify a specific person or household removed) on individuals involved in fishing, hunting, and other wildlife-associated recreation, such as wildlife observation, photography, and feeding. Data include state in which these activities occurred; number of trips taken; duration of trips; and expenditures for food, lodging, transportation, and equipment.”

*Purpose:* Provides data on these recreational activity that may inform usage and valuation studies.

*Relevance to spills:* Provides an indication of the level of use and experience of the natural environment

### *Geographic and Temporal Characteristics*

*Time Period of Content:* State level reports available for 1996, 2001, and 2006

*Update Frequency:* No information provided on the timing of the next survey

*Geographic Coverage of Data:* Data are aggregated at the state level; coverage of 50 States

### *Data Sources and Accessibility*

*Source of Data:* US census survey

*Sample:* details available at the website

*Data format:* PDF reports are available for the US and for each state

*URL:* <http://www.census.gov/prod/www/abs/fishing.html>

*Access Constraints:* None; data with local identifying information may be available on request

*Use Constraints:* None

*Contact Information:* U.S. Fish and Wildlife Service

NCTC Publication Unit; 698 Conservation Way; Shepherdstown, WV 25443

304-876-7203 or e-mail: [pubs@fws.gov](mailto:pubs@fws.gov)

## **Title Database: Recreational Boating Statistics 2009**

*Agency/organization:* US Coast Guard

***Impacts Addressed: Lost of Recreational Opportunity***

***Factor: Exposure***

### *Description:*

*Abstract:* The U.S. Coast Guard maintains detailed statistics on all reported recreational boating safety accidents and incidents throughout the United States and its territories. This report also contains information on the number of boats registered per state. The report provides total of all vessels registered under the state system. There are differences in registration requirements among states which contribute to differences in the totals and the type of information provided. For some states, the total includes only motor boats while others require registration of sailboats over a specified length, and some require registration of all watercraft.

*Relevance to spills:* Limited use as indicator of water based recreational activities

### *Geographic and Temporal Characteristics*

*Time Period of Content:* 1999-2009

*Update Frequency:* annual

*Geographic Coverage of Data:* US states, Territories, and District of Columbia

### *Data Sources and Accessibility and Quality*

*Source of Data:* Based on state boating registration programs

*Sample:* all registered boats

*Data format:* PDF

*URL:* [http://www.uscgboating.org/statistics/accident\\_statistics.aspx](http://www.uscgboating.org/statistics/accident_statistics.aspx)

*Access Constraints:* None

*Use Constraints:* None

*Contact Information:* US Coast Guard

## VULNERABILITY TO GOVERNANCE IMPACTS

### **Title Database: Public Access to Court Electronic Records (PACER)**

*Agency/organization:* US Judiciary/ Administrative Office of the US Courts

***Impacts Addressed: Governance – social - economic***

***Factor: Impacts***

*Description:*

*Abstract:* The PACER system provides electronic access to case information from federal courts across the United States including case and docket information from Federal Appellate, District and Bankruptcy courts, and own databases with case information. Because PACER database systems are maintained within each court, each jurisdiction will have a different URL. Accessing and querying information from each service is comparable; however, the format and content of information provided may differ slightly.

*Relevance to spills:* Information on lawsuits over impacts of the spill. The lawsuit documentation will contain details about impacts. The duration and complexity of the legal proceedings have been documented as a significant source of stress in some communities.

*Geographic and Temporal Characteristics*

*Time Period of Content:* Each court maintains its own case information database; therefore, there will be some variations among jurisdictions as to the date ranges of information offered.

*Update Frequency:* Continually

*Geographic Coverage of Data:* Nationwide

*Data Sources and Accessibility and Quality*

*Source of Data:* Federal courts across the U.S.

*Sample:* NA

*Completeness:* Real time database

*Data format:* Electronic, PDF

*URL:* [https://pacer.login.uscourts.gov/cgi-bin/login.pl?court\\_id=00idx](https://pacer.login.uscourts.gov/cgi-bin/login.pl?court_id=00idx)

*Access Constraints:* Need to register and costs \$0.08 per page

*Use Constraints:* Since the data contains individual information, the user may not use the information provided to violate any law or rules.

*Contact Information:* [pacer@psc.uscourts.gov](mailto:pacer@psc.uscourts.gov)

## **Title Database: State and Local Government Finance**

*Agency/organization:* US Census Bureau

### ***Impacts Addressed: Government***

### ***Factor: Exposure, Sensitivity, Resilience***

#### *Description*

*Abstract:* Most comprehensive source of government data available from the US Census Bureau. Data include estimates of revenue by type, expenditure by purpose and function, debt, and financial assets by type. Local revenues are reported as statewide totals, therefore communities and regions cannot be distinguished.

*Purpose:* To provide periodic and comprehensive statistics about governments and governmental financial activities.

*Relevance to spills:* Local, disaggregated data might provide insight into economic resources, dependencies, and capacities. Details on the 34 largest cities in the nation in 2006 are available at <http://www.census.gov/prod/www/abs/fishing.html>

#### *Geographic and Temporal Characteristics*

*Time Period of Content:* online data back to 1992

*Update Frequency:* FY 2008 data became available in Winter 2010

*Geographic Coverage of Data:* 50 states and the District of Columbia, state data by level of government are also available

#### *Data Sources and Accessibility*

*Source of Data:* From the website, “a variety of mail, Internet, coordinated arrangements with states, staff compilations of source documents, and melding in data from other finance component surveys.”

*Sample:* State data are actual measures from surveys. Local data are estimated based on sampling.

*Data format:* viewable tables and downloadable files (Excel and ASCII)

*URL:* <http://www.census.gov/govs/estimate/>

*Access Constraints:* None

*Use Constraints:* some data require working with an ASCII data file format

*Contact Information:* U.S. US Census Bureau