

Conservation

PB2016102705

Assessment of the Effects of Conservation Practices on Cultivated Cropland in the Texas Gulf Basin. Summary of Findings.

Natural Resources Conservation Service, Washington, DC.

2015, 8p

Related Categories/Subcategories

48B - Natural Resource Management

57H - Ecology

98B - Agricultural Economics

68D - Water Pollution & Control

Keywords: Cultivated cropland, Texas Gulf Basin, Land use, Conservation practices, Soil resources

Newsletter

National Technical Reports Library

Purpose: To bring you a sampling of the latest documents added to the NTIS Database and to help you gain a greater understanding of the wealth of scitech information available from the National Technical Information Service.

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PB2016102794

Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2014.

Environmental Protection Agency, Washington, DC. 2016, 558p.

Related Categories/Subcategories

68A - Air Pollution & Control

55C - Meteorological Data Collection, Analysis, & Weather Forecasting

Keywords: Greenhouse gases, Climate changes, Inventories

PB2016102704

Quantifying Ecosystem Services Derived from Wetland Conservation Practices in the Glaciated Interior Plains: The Provision of Water Quality (and Carbon Sequestration) Benefits.

Indiana Univ. at Bloomington. School of Public and Environmental Affairs.; Natural Resources Conservation Service, Washington, DC.

2012, 24p

Related Categories/Subcategories

48B - Natural Resource Management

57H - Ecology

68D - Water Pollution & Control

Keywords: Wetland ecosystems, Conservation, Water quality, Riparian areas, Carbon sequestration, Glaciated Interior Plains (GIP)

PB2016102706

Assessment of the Effects of Conservation Practices on Cultivated Cropland in the Texas Gulf Basin.

Natural Resources Conservation Service, Washington, DC.

2015, 189p

Related Categories/Subcategories

48B - Natural Resource Management

57H - Ecology

98B - Agricultural Economics

68D - Water Pollution & Control

Keywords: Cultivated cropland, Conservation, Texas Gulf Basin, Land use, Conservation practices, Soil resources



PB2016102709

Classification and Conservation Assessment of High Elevation Wetland Communities in the Allegheny Mountains of West Virginia.

West Virginia Dept. of Natural Resources, Elkins. Div. of Wildlife Resources. Environmental Protection Agency, Washington, DC.

2007, 547p

Related Categories/Subcategories

48B - Natural Resource Management

57H - Ecology

97R - Environmental Studies

Keywords: Conservation assessment, Wetland communities, Vegetation classification, Biodiversity, Allegheny Mountains (West Virginia), High elevation, Mixed swamps, Peatlands



PB2016102711

Work of the Civilian Conservation Corps: Pioneering Conservation in Louisiana.

Southern Forest Experiment Station, Pineville, LA. 2012, 72p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98F - Fisheries & Aquaculture

Keywords: Civilian Conservation Corps (CCC), Louisiana, New Deal administration, Water conservation, Erosion control, Forestry

PB2016102707

Methods for Determining Biodiversity Metrics, Focal Species, and Conservation Practices for Multi-scale Analysis in Support of the Conservation Effects Assessment Project (CEAP).

New Mexico State Univ., Las Cruces; Natural Resources Conservation Service, Washington, DC. 2016, 93p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology

Keywords: Biodiversity, management, Conservation practices, Land management, Focal species

PB2016102712

Conservation Buffers: Design Guidelines for Buffers, Corridors, and Greenways.

Forest Service, Asheville, NC. Southern Research Station.

2008, 136p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology

Keywords: Conservation planning, Buffers, Conservation practice, Greenway, Riparian Streamside management zone, Windbreak, Vegetation, Filter strips

PB2016102710

Final Report: Conservation Assessment and Mapping Products for GPLCC Priority Fish Taxa. Texas Univ. at Austin. Integrative Biology Dept.; Fish and Wildlife Service, Washington, DC. 2014, 46p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98F - Fisheries & Aquaculture

Keywords: Conservation assessment, Great Plains Landscape Conservation Cooperative (GPLCC), Fish species, Species distribution models, Mapping, Biodiversity

PB2016102708

Effects of Conservation Practice Adoption on Cultivated Cropland Acres in Western Lake Erie Basin, 2003-06 and 2012.

Natural Resources Conservation Service, Washington, DC. 2016, 120p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98B - Agricultural Economics
68D - Water Pollution & Control

Keywords: Cultivated cropland, Conservation, Western Lake Erie Basin, Land use, Conservation practices, Soil resources, Water resources, Farmers

PB2016102713

Best Practices for Integrating Ecosystem Services into Federal Decision Making.

Duke Univ., Durham, NC. Nicholas School of the Environment; Clark Univ., Worcester, MA.; National Science Foundation, Washington, DC. 2015, 54p

Related Categories/Subcategories

48B - Natural Resource Management
70F - Public Administration & Government
91A - Environmental Management & Planning
57H - Ecology

Keywords: Conservation, Benefit Relevant Indicators (BRIs), Decision making, Ecosystems, Federal resources, Best practices, Economic valuation, Data collection

PB2016102714

Estimating the Economic Impacts of Ecosystem Restoration: Methods and Case Studies.

Geological Survey, Reston, VA.; Department of the Interior, Washington, DC. Office of Policy Analysis; Bureau of Land Management, Washington, DC. 2016, 104p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98B - Agricultural Economics
48D - Forestry

Keywords: Conservation, Ecosystems, Restoration, Economic impacts, Restoration projects, Damage assessment, Land management, Wildlife habitats

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PB2016102715

Modeling Environmental Change: A Guide to Understanding Model Results That Explore the Impacts of Climate Change on Regional Environmental Systems.

Washington State Univ., Pullman; Department of Agriculture, Washington, DC. National Inst. of Food and Agriculture. 2015, 12p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
55C - Meteorological Data Collection, Analysis, & Weather Forecasting
68G - Environmental Health & Safety

Keywords: Conservation, Environmental impacts, Climate change, Environmental change, Environmental models, Resource management

PB2016102717

Implementing the Pecos River WPP through Invasive Species Control and by Providing Technical and Financial Assistance to Reduce Agricultural Nonpoint Source Pollution.

Texas A and M Univ., College Station. Water Resources Inst.; Environmental Protection Agency, Washington, DC. 2013, 21p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98D - Agronomy, Horticulture, & Plant Pathology
57P - Pest Control

Keywords: Conservation, Pecos River Watershed Protection Plan (WPP), Agricultural Nonpoint Source Pollution, Invasive species, Pollution control, Watersheds, Land owners, Land use, Water quality, Grazing lands

Key to Database Fields Used

The following NTIS database fields are used in this short listing of recently acquired technical reports.

- **NTIS Order Number**
- **Title**
- **Source**
- **Report Year, Page Count**
- **Report Number/ISBN13** (if available)
- **Related Categories/Sub-categories** (where the document is also indexed)
- **Keywords**

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To my knowledge, the only digitization of this report that I know of has been done by NTIS. Thus my delight in discovering it was done and available as a high quality pdf file."

Donald M. Rosencrantz, Research Associate – Institute of Nautical Archaeology

"Very often the work described in these [early NTIS] reports was never published in the open journal literature, or published only in a very condensed form. I have repeatedly found that information in these documents gave important inspiration for my new research, or, in some cases, preventing me from "re-inventing the wheel." ...

NTIS provides a valuable service. - Univ. of Colorado Engineering Professor

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NTIS has launched greater access to federally funded science & technology information and reports. Starting in October 2014, U.S. citizens have free access to all electronically-available documents in the NTIS collection.

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Please feel free to contact me if you have any questions.

Greg Guthrie, Program Manager
National Technical Reports Library (NTRL)
 gguthrie@ntis.gov

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Filter Results	-	-	✓	✓
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Post Document's Comments	-	-	✓	✓ (Available when creating an account within the Institution)
PERSONALIZATION				
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Save Favorite Documents	-	-	✓	✓ (Available when creating an account within the Institution)
Email Favorite Documents Per Session	-	-	✓	✓
EXTERNAL SYSTEMS				
EndNote	-	-	✓	✓
DIGITAL-ON-DEMAND				
User Requests	-	-	✓	✓ (Mediated: Limit of 5 per week)
Administrator Tool	-	-	-	✓
INSTITUTION ACCESS				
IP Based	-	-	-	✓
Branded Site	-	-	-	✓
REPORTING				
Administrator Usage Statistics	-	-	-	-
TRIAL ACCESS				
Public NTRL	-	-	-	-

PB2016102718

[Establishing and Managing Early Successional Habitats for Wildlife on Agricultural Lands.](#)
Missouri Univ., Columbia; Natural Resources Conservation Service, Washington, DC.
2012, 20p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98C - Agricultural Equipment, Facilities, & Operations
57Z - Zoology

Keywords: Conservation, Bobwhite quail, Habitat management, Wildlife management, Agricultural lands, Wildlife habitats, Land management, Farm management

PB2016102722

[Restoration Works: Highlights from a Decade of Partnership between The Nature Conservancy and the National Oceanic and Atmospheric Administration's Restoration Center.](#)
Nature Conservancy, Arlington, VA.; National Oceanic and Atmospheric Administration, Silver Spring, MD.
2012, 100p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
47D - Biological Oceanography

Keywords: Marine habitats, The Nature Conservancy (TNC), National Oceanic and Atmospheric Administration (NOAA), Conservation, Restoration, Coastal habitats
Diversity, Coastal waterways, Ecosystems, Communities

PB2016102724

[Restoring the Great Lakes' Coastal Future Technical Guidance for the Design and Implementation of Climate-Smart Restoration Projects.](#)
National Wildlife Federation, Ann Arbor, MI. Great Lakes Natural Resource Center.; National Oceanic and Atmospheric Administration, Washington, DC.; Kresge Foundation, Troy, MI.
2011, 72p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
55C - Meteorological Data Collection, Analysis, & Weather Forecasting

Keywords: Conservation, Restoration, Great Lakes Region, Coastal habitats, Freshwater reserves, Climate change, Environmental protection, Coastal ecosystems, Long-term effects, Species diversity, Environmental management

PB2016102720

[Assessing Wildlife Habitats and Natural Resources in Neighborhoods and Urban Environments.](#)
Missouri Univ., Columbia. School of Natural Resources; Forest Service, Washington, DC.
2013, 7p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
57Z - Zoology
91G - Urban Administration & Planning

Keywords: Missouri, Natural resources management, Natural resource assessment tool, Conservation, Urban areas, Wildlife management, Wildlife habitats, Suburban areas, Land use, Vegetation

PB2016102725

[Climate Adaptation Strategy for Conservation and Management of Yellow-Cedar in Alaska.](#)
Forest Service, Portland, OR. Pacific Northwest Research Station.
2016, 392p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
98D - Agronomy, Horticulture, & Plant Pathology
48D - Forestry
55C - Meteorological Data Collection, Analysis, & Weather Forecasting

Keywords: Alaska, Forest management, Trees, Yellow-cedar trees, Alaska yellow-cedar, Alaska cedar, Callitropsis nootkatensis, Chamaecyparis nootkatensis, Climate change, Climate adaptation, Natural resources management, Ecology, Silvics

PB2016102719

[Establishing and Managing Riparian Forest Buffers.](#)
Missouri Univ., Columbia; Agricultural Research Service, Washington, DC; Iowa State Univ., Ames. Cooperative Extension Service.
2005, 20p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
68D - Water Pollution & Control
98B - Agricultural Economics
Keywords: Conservation, Riparian land, Water quality, Agroforestry, Land management, Farm income, Natural resources management, Environmental protection, Riparian Forest Buffers

PB2016102723

[Scanning the Conservation Horizon: A Guide to Climate Change Vulnerability Assessment.](#)
National Wildlife Federation, Washington, DC.; Fish and Wildlife Service, Washington, DC.; National Park Service, Washington, DC.; Geological Survey, Reston, VA.; Rocky Mountain Research Station, Fort Collins, CO.
2011, 176p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
55C - Meteorological Data Collection, Analysis, & Weather Forecasting

Keywords: Conservation, Climate change, Vulnerability assessment, Natural resource management, Adaptation, Ecological impacts, Environmental impacts

PB2016102721

[Integrating Agroforestry Practices for Wildlife Habitat.](#)

Missouri Univ., Columbia; Agricultural Research Service, Washington, DC.
2008, 16p

Related Categories/Subcategories

48B - Natural Resource Management
57H - Ecology
57Z - Zoology
98B - Agricultural Economics

Keywords: Conservation, Wildlife management, Agroforestry, Land use, Farm land, Environmental sustainability, Agricultural economics

LEGACY DOCUMENTS

Legacy Documents are documents in the repository and haven't been digitized. Digitization-on-demand for these documents is available to NTRL Subscribers.

CONF-761028-4

[Improving Automotive Fuel Economy with Accessory Drives. \(MS-4171\).](#)
Garrett Corp., Phoenix, Ariz. Airesearch Mfg. Div. Energy Research and Development Administration.
1976, 22p

Related Categories/Subcategories

85H [T Road Transportation
81J [T Reciprocation & Rotating Combustion Engines
97L [T Engine Studies (Energy Related)

Keywords: Automobiles *, Spark ignition engines*, Air conditioning, Blowers, Carbon monoxide, Cooling systems, Electric generators, Equipment Exhaust gases, Fuel economy, Hydrocarbons, Nitrogen oxides, Performance testing, Pumps, Research programs

BERC/RI-76/1

[Investigation of the Fuel Economy Potential of Three Late-Model Automobiles.](#)

Energy Research and Development Administration, Bartlesville, Okla. Bartlesville Energy Research Center. (ERDA)
1976, 21p

Related Categories/Subcategories

97 Energy
81J Reciprocation & Rotating Combustion Engines.
Keywords: Automobiles *, Exhaust gases *, Catalytic converters, Dynamometers, Exhaust recirculation systems, Federal test procedure, Fuel consumption Identifier , Air pollution ,Fuel economy

PB-194 688

[Investigation of a Substitute Fuel to Control Automotive Air Pollution.](#)

Consolidated Engineering Technology Corp., Mountain View, Calif.
1970, 77p

Related Categories/Subcategories

68A Air Pollution & Control
81A Combustion & Ignition
81D Jet & Gas Turbine Engines
Keyword: Air pollution, Exhaust gases, Spark ignition engines, Automotive fuels, Methyl alcohol

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CENDI (Commerce, Energy, NASA, Defense Information Managers Group) is an interagency group of senior Scientific and Technical Information (STI) managers from 14 United States federal agencies.

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To continue the cooperation begun under COSATI, managers of agency STI programs from Commerce (National Technical Information Service), Energy (Office of Scientific and Technical Information), NASA (HQ/STI Division), and Defense (Defense Technical Information Center) began meeting periodically to discuss common topics and stimulate more effective cooperation.

In 1985, a Memorandum of Understanding was signed by the four charter agencies and CENDI was established. From this small core of STI managers, CENDI has grown to its current membership, which represents the major science agencies, the national libraries, and agencies involved in the dissemination and long-term management of scientific and technical information.

Public Access Plans of U.S. Federal Agencies

Additional Public Access Plans will be posted as agencies release them.

In a memo released by the Office of Science and Technology Policy (OSTP) on February 22, 2013, each Federal agency with over \$100 million in annual conduct of research and development expenditures was directed to develop a plan to support increased public access to the results of research funded by the Federal Government. This included any results published in peer-reviewed scholarly publications that are based on research that directly arises from Federal funds, as defined in relevant OMB circulars (e.g., A-21 and A-11).

The full memo can be viewed at <https://www2.icsu-wds.org/files/ostp-public-access-memo-2013.pdf>.

Some agencies not subject to the OSTP memo are voluntarily developing Public Access Plans and are included below.

Available Plans

- **Agency for International Development (Oct. 1, 2014)**
<http://blog.usaid.gov/2014/10/announcing-usaids-open-data-policy/>
- **Department of Agriculture (Nov. 7, 2014)**
<http://www.usda.gov/documents/USDA-Public-Access-Implementation-Plan.pdf> / (PB2015102892)
- **Department of Commerce**
 - **National Institute of Standards and Technology (Apr. 3, 2015)**
<http://www.nist.gov/data/upload/NIST-Plan-for-Public-Access.pdf> / (PB2015104387)
 - **National Oceanic and Atmospheric Administration (Feb. 2015)**
http://docs.lib.noaa.gov/noaa_documents/NOAA_Research_Council/NOAA_PARR_Plan_v5.04.pdf / (PB2015102888)
- **Department of Defense (Feb. 2015)**
http://www.dtic.mil/dtic/pdf/DoD_PublicAccessPlan_Feb2015.pdf
- **Department of Energy (Jul. 24, 2014)**
http://energy.gov/sites/prod/files/2014/08/f18/DOE_Public_Access_Plan_FINAL.pdf / (PB2015101160)
- **Department of Health and Human Services**
<http://www.hhs.gov/open/public-access/guiding-principles.html>
 - **Agency for Healthcare Research and Quality (Feb. 2015)**
<http://www.ahrq.gov/funding/policies/publicaccess/index.html>
 - **Centers for Disease Control (Jan. 2015)**
http://www.cdc.gov/od/science/docs/Final-CDC-Public-Access-Plan-Jan-2015_508-Compliant.pdf / (PB2015102889)
 - **Food and Drug Administration (Feb. 27, 2015)**
<http://www.fda.gov/downloads/ScienceResearch/AboutScienceResearchatFDA/UCM435418.pdf> / (PB2015102887)
 - **National Institutes of Health (Feb. 26, 2015)**
<http://grants.nih.gov/grants/NIH-Public-Access-Plan.pdf> / (PB2015102891)
 - **Office of the Assistant Secretary for Preparedness and Response (Feb. 27, 2015)**
<http://www.phe.gov/Preparedness/planning/science/Documents/AccessPlan.pdf> / (PB2015102888)
- **Department of the Interior**
 - **US Geological Survey (Feb. 19, 2015)**
<http://www.usgs.gov/usgs-manual/im/IM-OSQI-2015-01.html>
- **National Aeronautics and Space Administration (Nov. 21, 2014)**
http://science.nasa.gov/media/medialibrary/2014/12/05/NASA_Plan_for_increasing_access_to_results_of_federally_funded_research.pdf
- **National Science Foundation (Mar. 18, 2015)**
<http://www.nsf.gov/pubs/2015/nsf15052/nsf15052.pdf> / (PB2015102890)
- **Veterans Administration (Feb. 1, 2015)**
http://www.research.va.gov/resources/policies/public_access.cfm

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PB2016102794

Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2014.

Environmental Protection Agency, Washington, DC.

2016, 558p

An emissions inventory that identifies and quantifies a country's primary anthropogenic sources and sinks of greenhouse gases is essential for addressing climate change. This inventory adheres to both (1) a comprehensive and detailed set of methodologies for estimating sources and sinks of anthropogenic greenhouse gases, and (2) a common and consistent mechanism that enables Parties to the United Nations Framework Convention on Climate Change (UNFCCC) to compare the relative contribution of different emission sources and greenhouse gases to climate change.

In 1992, the United States signed and ratified the UNFCCC. As stated in Article 2 of the UNFCCC, "The ultimate objective of this Convention and any related legal instruments that the Conference of the Parties may adopt is to achieve, in accordance with the relevant provisions of the Convention, stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system. Such a level should be achieved within a time-frame sufficient to allow ecosystems to adapt naturally to climate change, to ensure that food production is not threatened and to enable economic development to proceed in a sustainable manner."

Major Subject Categories

Category Codes*/Title

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* Scope Notes define the specific topical content for each category;

<http://www.ntis.gov/assets/pdf/scopenotes.pdf>

** Quantities represent each new report assigned on average to 3-5 categories.

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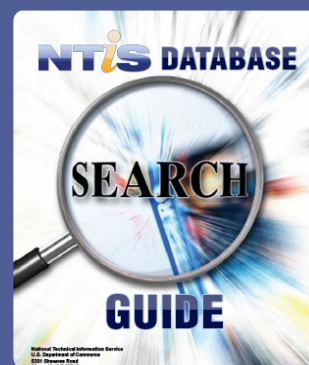
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Just Revised: the NTIS Database Search Guide

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Subject Category Codes/Classification

NTIS classifies citations into 39 subject categories. Each of these subject categories is divided into subcategories. This method provides sorting categories for both hard and soft sciences. All subject categories consist of three character codes: two numerics and one alpha character. The numeric codes represent entire categories the alpha codes are used to designate subcategories within these broad categories. The number of NTIS subcategories posted to an information product average from three to five, although there are some reports with more.

Any of the technical reports listed in this newsletter can be ordered directly from the National Technical Information Service, simply click on the title to go to the product detail page on NTIS.GOV.

If your organization is a subscriber to the National Technical Reports Library, most of the reports listed can be downloaded free there. For information on how to subscribe to NTRL, go to

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Title Index - For NTRL Users

The following is a list of the titles included in this month's issue, without links to the NTIS Web site. The list is in alphabetical order by title.

NTIS Number	Category	Title
PB2016102720	48	Assessing Wildlife Habitats and Natural Resources in Neighborhoods and Urban Environments.
PB2016102706	48	Assessment of the Effects of Conservation Practices on Cultivated Cropland in the Texas Gulf Basin.
PB2016102705	48	Assessment of the Effects of Conservation Practices on Cultivated Cropland in the Texas Gulf Basin. Summary of Findings.
PB2016102713	48	Best Practices for Integrating Ecosystem Services into Federal Decision Making.
PB2016102709	48	Classification and Conservation Assessment of High Elevation Wetland Communities in the Allegheny Mountains of West Virginia.
PB2016102717	48	Climate Adaptation Strategy for Conservation and Management of Yellow-Cedar in Alaska.
PB2016102725	48	Climate Adaptation Strategy for Conservation and Management of Yellow-Cedar in Alaska.
PB2016102712	48	Conservation Buffers: Design Guidelines for Buffers, Corridors, and Greenways.
PB2016102708	48	Effects of Conservation Practice Adoption on Cultivated Cropland Acres in Western Lake Erie Basin, 2003-06 and 2012.
PB2016102718	48	Establishing and Managing Early Successional Habitats for Wildlife on Agricultural Lands.
PB2016102719	48	Establishing and Managing Riparian Forest Buffers.
PB2016102714	48	Estimating the Economic Impacts of Ecosystem Restoration: Methods and Case Studies.
PB2016102710	48	Final Report: Conservation Assessment and Mapping Products for GPLCC Priority Fish Taxa.
PB2016102717	48	Implementing the Pecos River WPP through Invasive Species Control and by Providing Technical and Financial Assistance to Reduce Agricultural Nonpoint Source Pollution.
PB2016102721	48	Integrating Agroforestry Practices for Wildlife Habitat.
PB2016102794	68	Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2014.
PB2016102707	48	Methods for Determining Biodiversity Metrics, Focal Species, and Conservation Practices for Multi-scale Analysis in Support of the Conservation Effects Assessment Project (CEAP).
PB2016102715	48	Modeling Environmental Change: A Guide to Understanding Model Results That Explore the Impacts of Climate Change on Regional Environmental Systems.
PB2016102704	48	Quantifying Ecosystem Services Derived from Wetland Conservation Practices in the Glaciated Interior Plains: The Provision of Water Quality (and Carbon Sequestration) Benefits.
PB2016102722	48	Restoration Works: Highlights from a Decade of Partnership between The Nature Conservancy and the National Oceanic and Atmospheric Administration's Restoration Center.
PB2016102724	48	Restoring the Great Lakes' Coastal Future Technical Guidance for the Design and Implementation of Climate-Smart Restoration Projects.
PB2016102723	48	Scanning the Conservation Horizon: A Guide to Climate Change Vulnerability Assessment.
PB2016102711	48	Work of the Civilian Conservation Corps: Pioneering Conservation in Louisiana.
PB2016101716	55	Workshop in Risk-Based Framing of Climate Impacts in the Northwest: Implementing the National Climate Assessment Risk-Based Approach. Held in Portland, Oregon on December 2, 2011