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# APPENDIX L: PLANNING DATA NEEDS AND SOURCES

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This appendix includes staff contacts for specific cultural and natural resource topics and links to key websites that planners should find useful. The appendix begins with a list of general reference websites, followed by a list of key resources for the National Environmental Policy Act, natural resources, and cultural resources. At the end of the appendix is a list of other useful reference websites. Natural resource information was compiled and updated by NRPC staff in ARD, ARD-Soundscapes, BRMD, GRD, and WRD in October 26, 2006; cultural resource information was updated by WASO Cultural Resources staff on October 11, 2006.

Because websites are constantly changing, the listed links may not all work. Some links are also intranet sites that can only be accessed by NPS employees. (Intranet websites are either noted as such or indicated with asterisks.) Please inform DSC Planning of any sites that are not working, as well as other useful sites that are not included in this appendix.

## L.1 GENERAL REFERENCES

NOTE: All NPS director's orders (DO) and related documents are available at <http://home.nps.gov/applications/npspolicy/DOrders.cfm>.

### **Council on Environmental Quality 1978 Regulations**

These are the regulations that implement the provisions of NEPA. The regulations provide more specific guidance on preparing NEPA documents. Parts of the regulations that are of particular interest for GMP/EISs include sections 1502 (Environmental Impact Statements), 1503 (Commenting), 1505 (NEPA and Agency Decision making), 1506 (Other Requirements of NEPA), and 1508 (Terminology).

*NEPA:* <http://www.epa.gov/epacfr40/chapt-V.info/chv-toc.htm>

### **Denver Service Center (DSC) Workflows**

This website includes workflows for GMPs and special resource studies, as well as information on other projects that the Denver Service Center works on (e.g., design and construction, and transportation projects). The website briefly describes each of the major steps in the development and approval of a GMP/EIS. The intranet site includes examples, guidelines, and descriptions of roles and responsibilities for the steps.

*DSC workflows:* <http://workflow.den.nps.gov/staging/home.htm>

*Intranet site:* <http://workflow2.den.nps.gov/index.htm>

### **Director's Order #12: Conservation Planning, Environmental Impact Analysis, and Decision-making**

*DO #12* and *The DO-12 Handbook* lay the groundwork for a necessary evolution in the way we approach environmental analysis, public involvement, and making resource-based decisions. They set forth a new direction in using interdisciplinary teams, incorporating scientific and technical information, and establishing a solid administrative record for our

actions. The handbook contains the basic information needed for meeting the legal requirements of the National Environmental Policy Act (NEPA). There is also an NPS intranet site that has a field guide for Director's Order 12, which is referenced in the modules. This source is similar to *The DO-12 Handbook*, except it has additional examples, templates, and links to related websites.

*DO #12:* <http://www.nps.gov/policy/DOrders/DOrder12.html>

*The DO-12 Handbook:* <http://home.nps.gov/applications/npspolicy/DOrders/RM12.pdf>

*NPS Field Guide (intranet site):* <http://www1.nrintra.nps.gov/eqd/do12site/>

### **Director's Order #19: Records Management**

*DO #19* and its accompanying *Records Management Handbook*, including the "Records Retention Schedule," describe NPS activities and standards in maintaining and providing access to records at all levels of the NPS.

*DO #19:* <http://www.nps.gov/policy/DOrders/DOrder19.html>

### **Director's Order #28: Cultural Resource Management**

The purpose of *DO #28* is to aid managers, planners, staff, and cultural resource specialists in managing cultural resources in the national park system. The guidance addresses standards and requirements for research, planning, and stewardship of cultural resources as well as key program activities governing the management of archeological resources, cultural landscapes, historic and prehistoric structures, museum objects, and ethnographic resources. Implementation guidance is provided in *NPS-28: Cultural Resource Management Guideline* (NPS 1998a).

*DO #28:* <http://www.nps.gov/policy/DOrders/DOrder28.html>

*NPS-28: Cultural Resource Management Guideline:* [http://www.cr.nps.gov/history/online\\_books/nps28/28contents.htm](http://www.cr.nps.gov/history/online_books/nps28/28contents.htm)

### **Director's Order #28A: Archeology**

*DO #28A* specifically focuses on archeology.

*DO #28A:* <http://www.nps.gov/policy/DOrders/DOrder28A.html>

### **Director's Order #41: Wilderness Preservation and Management**

*DO #41* and its accompanying handbook (NPS 1999a, 1999b) provide accountability, consistency, and continuity to the National Park Service's wilderness management program, and to otherwise guide servicewide efforts in meeting the letter and spirit of the 1964 Wilderness Act. This director's order clarifies, where necessary, specific provisions of NPS *Management Policies*, and it establishes specific instructions and requirements concerning the management of all national park system wilderness areas.

*DO #41:* <http://www.nps.gov/policy/DOrders/DOrder41.doc>

*DO #41 Reference Manual:* <http://www.nps.gov/policy/DOrders/RM41.doc>

**Director's Order #47: Sound Preservation and Noise Management**

The purpose of *DO #47* (NPS 2000d) is to articulate NPS operational policies that will require, to the fullest extent practicable, the protection, maintenance, or restoration of the natural soundscape resource in a condition unimpaired by inappropriate or excessive noise sources.

*DO #47: Sound Preservation and Noise Management:*  
<http://www.nps.gov/policy/DOrders/DOrder47.html>

**Director's Order #75A: Civic Engagement and Public Involvement**

The purpose of this *DO #75A* (NPS 2003c) is to articulate our commitment to civic engagement and to have all National Park Service units and offices embrace civic engagement as the essential foundation and framework for creating plans and developing programs. Civic engagement is a continuous, dynamic conversation with the public on many levels that reinforces public commitment to the preservation of heritage resources, both cultural and natural, and strengthens public understanding of the full meaning and contemporary relevance of these resources. The foundation of civic engagement is a commitment to building and sustaining relationships with neighbors and communities of interest.

*DO #75A:* <http://www.nps.gov/policy/DOrders/75A.htm>

**Director's Order #77: Natural Resource Management**

*DO #77* (NPS 1991) guides managers, planners, staff, and natural resource specialists in managing, conserving and protecting natural resources in national park units. The guidance addresses natural resource management (e.g., air, freshwater, native animals, nonnative species, soils, vegetation, marine resources), resource uses (e.g., agriculture, minerals management, hunting and trapping, backcountry recreation), planning, and program administration and management. The *Natural Resource Management Reference Manual #77* (NPS 2004) provides guidance on specific resources.

*NPS policy website:* <http://home.nps.gov/applications/npspolicy/DOrders.cfm>

*Natural Resource Management Reference Manual #77:* <http://www.nature.nps.gov/rm77>

**Director's Order #80: Real Property Asset Management**

*DO #80* (NPS 2005b) establishes the NPS policies, requirements, and standards for the management of NPS real property assets. These guidelines apply, among other elements, to the planning of facilities and related activities. The director's order identifies five core elements of the NPS asset management program: asset inventory and condition assessment; asset valuation; real property asset management planning process; implementation and execution of asset management plans; and performance assessment and asset portfolio improvement. The director's order also identifies policies for heritage assets and general properties.

*DO #80 (intranet site):* <http://inside.nps.gov/waso/custommenu.cfm?lv=4&prg=190&id=341>

### **Environmental Screening Form (ESF)**

The ESF documents the analysis used to decide the appropriate level of NEPA compliance. In the case of a GMP, this is either an EA or EIS. It also indicates other compliance steps that are needed. The ESF also is the beginning of the analysis or statutory compliance file.

*Environmental screening form (intranet site):*

<http://www1.nrintra.nps.gov/eqd/DO12Site/appendix1/apndx1.htm>

<http://www.nature.nps.gov/protectingrestoring/DO12Site/pdf/ESForm.pdf>

### **NPS Management Policies 2006**

The *Management Policies 2006*, the basic servicewide policy document, are an indispensable tool to help NPS employees manage parks responsibly and make rational, well-informed decisions.

*NPS Management Policies 2006:* <http://www.nps.gov/policy/mp/Index2006.pdf>

### **NPS Park Planning and Special Studies**

The following site includes a link to ongoing work on GMPs (through PEPC), and lists other offices engaged in planning. It also includes links to planning policies, tools, and references.

*NPS park planning:* <http://planning.nps.gov/>

*NPS (intranet site):* <http://inside.nps.gov/waso/waso.cfm?lv=2&prg=50>

### **Park Planning Program Standards**

The 2004 *Park Planning Program Standards* describe the National Park Service framework for park planning and decision making. Besides GMPs, the framework includes four other discrete kinds of plans, each with its own particular intent and planning standards.

*Park Planning Program Standards:*

<http://planning.nps.gov/document/aug9final%20standards.pdf>

### **Planning, Environment and Public Comment (PEPC)**

The following site provides access to current plans, environmental impact analyses, and related documents on public review. Users of the site can submit comments for documents available for public review.

*NPS park planning:* <http://parkplanning.nps.gov/>

*PEPC (intranet site):* <https://pepc.nps.gov/>

### **Procedural Manual #77-1: Wetland Protection**

*Procedural Manual #77-1: Wetland Protection* (NPS 1998c) establishes NPS procedures for implementing actions to protect wetlands in units of the national park system as required by Executive Order 11990, and *Director's Order #77-1: Wetland Protection* (NPS 1998b). Among other things, the manual identifies excepted actions for wetlands, the sequence of avoiding, minimizing and compensating for wetland impacts, the NEPA process and wetlands, and content for statements of findings.

*Procedural Manual #77-1:* <http://www.nature.nps.gov/wetlands/indexpro.html>

## **Procedural Manual #77-2: Floodplain Management**

*Procedural Manual #77-2: Floodplain Management* (NPS 2004e) establishes NPS procedures for implementing floodplain protection and management actions in units of the national park system as required by Executive Order 11988, “Floodplain Management,” and *Director’s Order #77-2: Floodplain Management* (NPS 2003a). The manual provides definitions of terms, policy and objectives for management of floodplains, procedures on such topics as determining types of actions, delineating regulatory floodplains, and mitigation, and developing statements of findings.

*Procedural Manual #77-2*: <http://www.nature/nps/gov/rm77/floodplain.cfm>

## **Project Management Information System (PMIS)**

Submittal of a Project Management Information System (PMIS) statement indicates the need to prepare a GMP.

*PMIS (intranet site)*: <http://www.nps.gov/pmris> (or: <http://165.83.198.10/pmris/>)

## **L.2 NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) GUIDANCE**

### **National Park Service**

WASO EQD Division Chief: Jake Hoogland, (202) 513-7188

WASO (Denver) EQD contact: Tammy Whittington, 303-969-2073

*EQD (intranet site)*: <http://www1.nrintra.nps.gov/eqd/index.htm>

### **Council on Environmental Quality**

*CEQ NEPA Guidance (U.S. Department of Energy)*:  
<http://ceq.eh.doe.gov/nepa/nepanet.htm>

### **Planning, Environment and Public Comment (PEPC)**

PEPC is an online collaborative tool dedicated to facilitating the NEPA process. The PEPC database relates funding to the NEPA compliance process and includes specific project data including compliance tracking and public comments.

*PEPC (secure site (requires username and password))*: <https://pepc.nps.gov/>

*PEPC public site*: <http://parkplanning.nps.gov/>

## **L.3 NATURAL RESOURCES**

### **Planning Technical Advisory Group (PTAG)**

The PTAG website includes descriptions of goals, primary functions, organization, contacts, and a list of selected websites:

<http://inside.nps.gov/waso/waso.cfm?prg=864&lv=4>

PTAG members should be the initial point of contact for assistance with natural resources planning. (This list is current as of September 2007.)

**TABLE L.1: PLANNING TECHNICAL ADVISORY GROUP CONTACTS**

Core Team Members	Division	Phone	Email address
John Bunyak	Air Resources (ARD)	(303) 987-2818	john_bunyak@nps.gov
Frank Turina	Air Resources (ARD) — soundscapes	(970) 225-3530	frank_turina@nps.gov
Greg Eckert	Biologic Resource Management (BRMD)	(970) 225-3594	greg_eckert@nps.gov
Chris Lea	Biologic Resource Management (BRMD)	(303) 969-2807	chris_lea@nps.gov
Michael Edwards	Environmental Quality (EQD)	(303) 987-6953	michael_b_edwards@nps.gov
Lisa Norby	Geologic Resources (GRD)	(303) 969-2318	lisa_norby@nps.gov
Dave Vana-Miller, Chair	Water Resources (WRD)	(303) 969-2813	david_vana-miller@nps.gov
Gary Mason	Immediate Office of the ADNRSS	(202) 513-7204	gary_mason@nps.gov
Jerry Mitchell, Division Chief Sponsor	Biologic Resource Management (BRMD)	(970)225-3521	dave_shaver@nps.gov

NOTE: This list is current as of September 2007.

### Natural Resource Stewardship and Science Directorate, Natural Resources Program Center Directory

The directory contains NRSS/NRPC staff biographies and a listing of skills for each employee. The database can be searched by keywords.

*Intranet site:* <http://www1.nrintra.nps.gov/directory/divemp1.cfm>

### All Natural Resources

**NPS Impairment Guidance:** <http://www2.nrintra.nps.gov/ard/docs/NRImpairment.pdf>

**Monitoring Program Lead:** Steve Fancy, (970) 225-3571

**Inventory and Monitoring (I&M) Network.** The 32 I&M networks have compiled and organized a wealth of information about the natural resources of 270+ parks as part of conducting basic inventories and designing an ecological monitoring program for each park. The map at the “Parks and Networks” link will lead you to the website for a particular park or network, through which dozens of documents, reports, and databases can be accessed.

*I&M homepage:* <http://science.nature.nps.gov/im>

**Monitoring Reports.** As part of the several-year process of discovering and organizing what is already known about the natural resources in each park, these reports summarize a large amount of information that should be useful to planners. The Phase 1 reports provide an overview of each park and its natural resources; the importance of the park’s natural resources in a regional or national context; key management issues and scientific issues for each park; key agents of change and stressors that may cause changes in park resources; a summary of existing information and understanding of park ecosystems as determined by a literature review, identification and evaluation of existing datasets for park resources, review of park management plans (e.g., RMP, GMP), and other sources; and draft conceptual models to help explain our current understanding of ecological systems in the parks. The Phase 2 and 3 reports provide additional detail, including the development of indicators and standards for monitoring the condition of park resources.

*Intranet site:* <http://www1.nrintra.nps.gov/im/monitor/phase123.htm>

## NPSFocus

NPSFocus is a growing collection of thousands of images, documents, drawings, and maps about the cultural and natural resources maintained by the National Park Service.

<http://npsfocus.nps.gov/>

## NPS Natural Resource and GIS Data Store

The Data Store is an NPS-wide data and metadata clearinghouse for both spatial and non-spatial data sets. Users can search for and download GIS layers and map products, natural resource databases, boundary data, base data, GIS layer standards, and natural resource database table standards.

<http://science.nature.nps.gov/nrdata>

## Natural Resources Bibliography

The Natural Resources Bibliography (NatureBib) is the master bibliographic database for natural (and some cultural) resource references. Electronic copies of many of the references are directly linked through this site. NatureBib merges a number of previously separate databases dealing with natural resource related topics like air, natural sounds, geology and paleontology.

<http://www.nature.nps.gov/nrbib>

## Natural Resources Overviews

WRD has included a natural resources overview in their water resource scoping reports and management plans. Topics include climate, physiography, geology, soils, hydrology, water quality, and biologic resources (flora and fauna). Most of these reports are posted on the web and can be downloaded as PDF Files.

*Water Resources Scoping Reports:* <http://nature.nps.gov/water/scoping.cfm>

*Water Resources Information and Issues Overviews:*  
[http://www.nature.nps.gov/water/info\\_issues.cfm](http://www.nature.nps.gov/water/info_issues.cfm)

*Water Resource Foundation Reports (intranet site):*  
[http://www1.nature.nps.gov/water/planning/Foundation\\_reports/index.cfm](http://www1.nature.nps.gov/water/planning/Foundation_reports/index.cfm)

**TABLE L.2: GENERAL DECISION-MAKING DATA NEEDS AND SOURCES FOR NATURAL RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Descriptions of resource significance in a national/regional/local context (as appropriate to the resource)</li> </ul>	<ul style="list-style-type: none"> <li>• Park bibliographic database (developed through I&amp;M program – NatureBib)</li> </ul>
<ul style="list-style-type: none"> <li>• Park minimum basic data set AS listed in appendix A of NPS-75</li> </ul>	<ul style="list-style-type: none"> <li>• Biosphere reserve or world heritage site)</li> </ul>
<ul style="list-style-type: none"> <li>• Identification and description of internal and external land uses with potential effects on park natural resources</li> </ul>	<ul style="list-style-type: none"> <li>• Special resource study</li> <li>• Park resource management plan or resource stewardship strategy</li> <li>• Park external land uses analysis</li> <li>• Park, region, and other agency GIS databases</li> <li>• Additional resource-specific sources (see below)</li> </ul>

## Air Resources (Including Lightscape and Soundscape)

General information:

*ARD*: <http://www2.nature.nps.gov/air/index.cfm>

*ARD (intranet site)*: <http://www2.nrintra.nps.gov/ard/index.htm>

*Air Quality in National Parks 2002 report*:  
<http://www2.nature.nps.gov/air/pubs/aqnps.cfm>

### Air Quality Monitoring

**Program Lead:** John Vimont, (303) 969-2808

Air Atlas is a Geographic Information System (GIS) that looks at spatially interpolated air pollutant data from the major national monitoring networks in which the National Park Service participates.

*NPS Air Atlas*: <http://www2.nature.nps.gov/air/maps/AirAtlas/index.cfm>

The NPS Air Monitoring Program consists of an extensive network of air monitoring stations in almost 70 national parks across the country. The Program has three primary components: visibility, gaseous pollutants (mainly ozone), and atmospheric deposition (wet and dry).

*NPS Air Quality Monitoring and Data*:  
<http://www2.nature.nps.gov/air/monitoring/index.cfm>

### Climate Change

**NRPC contact:** Lee Weilling, (970) 225-3513

*USGS Global Climate Change website*: <http://nrpcsharepoint/climatechange>

*NPS intranet sharepoint site*: <http://nrpcsharepoint/climatechange/default.aspx>

### Ecological Effects

**ARD contact:** Ellen Porter, (303) 969-2617

The Air Resource Information System (ARIS) identifies air quality related values for class I air quality areas and provides guidance on analysis for evaluating impacts to these values, including information on ecological effects on sensitivity species and whether they are at low, medium, or high risk.

*Air Resource Information System (ARIS)*:  
<http://www2.nature.nps.gov/air/Permits/ARIS/index.cfm>

**TABLE L.3: DECISION-MAKING DATA NEEDS AND SOURCES FOR AIR RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Determination of whether the area is in attainment of national ambient air quality standards</li> </ul>	<ul style="list-style-type: none"> <li>Park resources management plan/resource stewardship strategy</li> </ul>
<ul style="list-style-type: none"> <li>Locations of existing and potential sources of air pollution and possible pollutants</li> </ul>	<ul style="list-style-type: none"> <li>NPS-ARD air quality atlas information, air quality inventory data</li> </ul>
<ul style="list-style-type: none"> <li>List of air quality-related values and visibility goals</li> </ul>	<ul style="list-style-type: none"> <li>NPS air quality-related values assessment</li> </ul>
<ul style="list-style-type: none"> <li>Basic precipitation and meteorological information</li> </ul>	<ul style="list-style-type: none"> <li>Meteorological data inventory</li> </ul>

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Climatological hazards, e.g., hurricanes</li> </ul>	<ul style="list-style-type: none"> <li>• State air program office</li> <li>• State and/or local air quality implementation plan</li> <li>• Air quality monitoring stations, including nearby state air pollution monitoring stations</li> </ul>
	<ul style="list-style-type: none"> <li>• EPA's website for air quality attainment/nonattainment status</li> <li>• Private consultants for large projects</li> </ul>

## Natural Lightscapes

**Program Lead:** Chad Moore (at Bryce Canyon NP), (435) 834-4904

*Natural Lightscapes:* <http://www2.nature.nps.gov/air/lightscapes/index.cfm>

**TABLE L.4: DECISION-MAKING DATA NEEDS AND SOURCES FOR LIGHTSCAPE RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Current external threats to park, including distance and population of surrounding towns and cities, expected growth rates, and whether lighting mitigations/controls are being used</li> </ul>	<ul style="list-style-type: none"> <li>• County census information and other local government population data)</li> </ul>
<ul style="list-style-type: none"> <li>• The value of dark night skies and natural lightscapes to visitors</li> </ul>	<ul style="list-style-type: none"> <li>• Visitor surveys, tourism boards, local amateur astronomy clubs</li> </ul>
<ul style="list-style-type: none"> <li>• Nighttime visitor use patterns (backcountry, ranger programs, night hikes)</li> </ul>	<ul style="list-style-type: none"> <li>• NPS Night Sky Team (<a href="http://www2.nature.nps.gov/air/lightscapes">www2.nature.nps.gov/air/lightscapes</a>)</li> </ul>
<ul style="list-style-type: none"> <li>• List of resident and transient species known to be sensitive to artificial light (sea turtles for example)</li> </ul>	
<ul style="list-style-type: none"> <li>• Inventory or qualitative assessment of current in-park lighting</li> </ul>	
<ul style="list-style-type: none"> <li>• Cultural landscapes inventory</li> </ul>	
<ul style="list-style-type: none"> <li>• Outdoor lighting guidelines</li> </ul>	
<ul style="list-style-type: none"> <li>• Cave maps and inventories if any developed caves</li> </ul>	

## Natural Soundscapes

**ARD contact:** Frank Turina, (970) 225-3530

**Additional contact:** Vicki McCusker, (970) 267-2117

The ARD Soundscapes website includes a comprehensive list of publications and reports related to soundscape management.

*Natural sounds:* <http://www.nature.nps.gov/naturalsounds/>

**TABLE L.5: RESOURCE DATA NEEDS AND SOURCES FOR NATURAL SOUNDSCAPES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Natural ambient and existing ambient conditions by acoustic areas and season quantified in terms of amplitude (Sound Pressure Level), spectral characteristics (1/3 octave band)</li> </ul>	<ul style="list-style-type: none"> <li>• Observational data and local knowledge on sources and audibility</li> </ul>
<ul style="list-style-type: none"> <li>• Identification of all sources of existing natural and nonnatural sound (noise) and quantified in terms of</li> </ul>	<ul style="list-style-type: none"> <li>• Vegetation/habitat and geomorphic maps and reports</li> </ul>

Data Needs	Sources
audibility (% area and % time), frequency, amplitude, rate of occurrence, noise free intervals	
<ul style="list-style-type: none"> <li>• Identification of all sources of potential natural sound and nonnatural sound (noise) and predicted amplitude, spectral characteristics, audibility, rate of occurrence, noise free interval</li> </ul>	<ul style="list-style-type: none"> <li>• Land and transportation use information in or adjacent to the study area</li> </ul>
	<ul style="list-style-type: none"> <li>• Local airport and FAA data (includes possible acoustic monitoring)</li> <li>• Other local acoustic monitoring reports</li> <li>• Acoustic literature and comparable soundscape impact assessments</li> <li>• Direct measurement at most representative or most critical and sensitive acoustic site(s), sound source (audibility) logs and continuous recordings</li> <li>• Other plans – e.g. snowmobiling, personal watercraft, transportation, concession etc, or actions proposed by other agencies that may directly affect the study area</li> <li>• Laws, regulations, existing plans, programmatic soundscape guides or decisions, and computer modeling of predicted noise from identified sound sources</li> </ul>

### Biological and Ecosystem Resources

General information:

*BRMD (intranet site):* <http://www1.nrintra.nps.gov/BRMD/>

#### T&E Species Program

**Program Lead:** Peter Dratch, (970) 225-3596

A digital repository of documents, GIS maps and data sets that contribute to the knowledge of biodiversity in National Park units, including presence/absence, distribution and abundance.

*Biodiversity Data Store:*

<http://science.nature.nps.gov/im/inventory/biology/BiodiversityDataStore.htm?reportType=ProductsPark&browseType=products>

The following website provides a gateway to information on programs, projects, tools, data and procedures that contribute to the development of institutional knowledge of biodiversity in the National Park Service.

*Biodiversity Service Center:* <http://science.nature.nps.gov/im/inventory/biology>

Online field guides of educational information for a large selection of species for each park are provided at the following website. The site includes species New-to-Science that were discovered in national park units and other significant finds such as range extensions and previously undiscovered populations.

*Nature Guides:* <http://www.enature.com/parks/natureguides.asp>

NPSpecies is the NPS database to store, manage, and disseminate scientific information on the biodiversity of all organisms in all national park units, including presence/absence, distribution, and abundance.

*NPSpecies:* <http://science.nature.nps.gov/im/apps/npspp/index.htm>

A gateway to the Nature Guides that highlight species new-to-science and significant finds, such as range extensions and previously undiscovered populations that were discovered in national park units.

*Species New-to-Science:* <http://www.enature.com/parks/newtoscience.asp>

*U.S. Fish and Wildlife Service:* <http://www.fws.gov>

**TABLE L.6: DECISION-MAKING DATA NEEDS FOR BIOLOGICAL RESOURCES AND ECOSYSTEM RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Overview of ecosystems and significant species and communities</li> </ul>	<ul style="list-style-type: none"> <li>Known species available in compiled form in NPSPECIES</li> </ul>
<ul style="list-style-type: none"> <li>Overview of activities of other entities responsible for stewardship of the same resource, regionally or nationally</li> </ul>	<ul style="list-style-type: none"> <li>Compilation of species occurrence maintained by organizations including state natural heritage programs and the U.S. Fish and Wildlife Service</li> </ul>
<ul style="list-style-type: none"> <li>Assessment of stressors and potential stressors on resources</li> </ul>	<ul style="list-style-type: none"> <li>Ecological systems found in LANDFIRE databases</li> </ul>
<ul style="list-style-type: none"> <li>Understanding the range of stakeholder perceptions about significance of biological and ecosystem resources</li> </ul>	<ul style="list-style-type: none"> <li>Conservation analyses conducted by government and non-government organizations (e.g., state heritage potential conservation areas, Audubon important bird areas, county and city open space plans, Nature Conservancy conservation action plans)</li> </ul>
<ul style="list-style-type: none"> <li>Understanding the range of stakeholder perceptions when trade-offs need to be made between managing resources of special concern and other valued attributes of park</li> </ul>	<ul style="list-style-type: none"> <li>General invasive species information and links to state databases, <a href="http://www.invasivespeciesinfo.gov/">http://www.invasivespeciesinfo.gov/</a></li> </ul>
<ul style="list-style-type: none"> <li>Certified species lists</li> </ul>	<ul style="list-style-type: none"> <li>For aquatic invasive species — <a href="http://nas.er.usgs.gov/">http://nas.er.usgs.gov/</a></li> </ul>
<ul style="list-style-type: none"> <li>Species of special-concern lists, including threatened and endangered species and critical habitat, sensitive species, including globally rare species, and invasive species</li> </ul>	<ul style="list-style-type: none"> <li>Area-based science, including research, inventories, surveys and monitoring</li> </ul>
<ul style="list-style-type: none"> <li>Historic species accounts and habitat conditions, including historic or otherwise accepted natural ranges of variation</li> </ul>	<ul style="list-style-type: none"> <li>Social science studies that reveal stakeholder perceptions about resource significance, management expectations, and potential management trade-offs</li> </ul>
<ul style="list-style-type: none"> <li>Historic ecosystem process behavior and landscape pattern condition</li> </ul>	<ul style="list-style-type: none"> <li>Resource stewardship strategies, fire management plans, all applicable plans that address ecosystem structure, process and biological communities and species</li> </ul>
<ul style="list-style-type: none"> <li>Understanding the range of stakeholder perceptions about current and desired conditions for resources and visitor experiences</li> </ul>	<ul style="list-style-type: none"> <li>NPS Inventory and Monitoring Program databases, Watershed Condition Assessment Reports, NRPC Data Store</li> </ul>
<ul style="list-style-type: none"> <li>Understanding of the range of stakeholder expectations of the park role in management</li> </ul>	<ul style="list-style-type: none"> <li>Regional or NRPC T&amp;E species databases of federal threatened and endangered, state-listed and other sensitive species; species of concern based on U.S. Fish and Wildlife Service listings of critical species habitat</li> </ul>
	<ul style="list-style-type: none"> <li>Gap analyses of potential habitat limits</li> <li>Fire program information on ecological systems, fire regime</li> <li>Historical records of floods, storms, etc.</li> </ul>

Data Needs	Sources
	<ul style="list-style-type: none"> <li>• Historic ecology reports</li> <li>• Land use studies and plans</li> <li>• Social science studies that reveal the range of stakeholder perceptions about current and desired conditions of resources and expectations for management</li> </ul>

## Geologic Resources

### General information

*GRD (intranet site):* <http://inside.nps.gov/waso/waso.cfm?prg=713&lv=3>

The following website has geology-related links to technical reports, geology texts, theme books, images etc.

*Geologic Resources:* <http://www2.nature.nps.gov/geology/>

Each park has a geology website. Many of these sites have a geology write-up and links to park specific geologic documents.

*Park-specific geologic information:* <http://www2.nature.nps.gov/geology/parks/byname.cfm>

*Reference Manual #77: Geologic Resources Management:*  
<http://www.nature.nps.gov/rm77/Geology.htm>

### Caves and Karst

**Program Lead:** Jim Woods, (303) 969-2635

*NPS Reference Manual #77: Cave and Karst Management:*  
<http://www.nature.nps.gov/rm77/Caves.htm>

*Cave and Karst Planning:* [http://www2.nature.nps.gov/geology/caves\\_acts\\_fcrpa.htm](http://www2.nature.nps.gov/geology/caves_acts_fcrpa.htm)

### Coastal Resources

**Program Lead:** Rebecca Beavers, (303) 987-6945

*Coastal Geology:* <http://www2.nature.nps.gov/geology/coastal/program.cfm>

*Coastal Vulnerability to Sealevel Rise Assessments:*  
<http://woodshole.er.usgs.gov/project-pages/nps-cvi/>

### Geologic Inventories (Geologic Resources Evaluation Program)

**Program Lead:** Bruce Heise, (303) 969-2017

The GRE program is the National Park Service's geologic resources inventory program. Geologic maps, scoping summaries, and geologic reports have been prepared for many parks and ultimately will be prepared for all I&M parks. Geologic scoping summaries and geologic reports can be accessed through this site. There are also links to existing digital geologic (GIS) data.

*Public site:* [http://www2.nature.nps.gov/geology/inventory/gre\\_publications.cfm](http://www2.nature.nps.gov/geology/inventory/gre_publications.cfm)

## Soil Resources

**Program Lead:** Pete Biggam, (303) 987-6948

*NPS Reference Manual #77: Soil Resources Management:*  
<http://www.nature.nps.gov/rm77/soils.htm>

*NPS Soils Program:* <http://www2.nature.nps.gov/geology/soils/>

*National Resources Conservation Service, Soil Survey Division:* <http://www.soils.usda.gov>

**TABLE L.7: DECISION-MAKING DATA NEEDS FOR GEOLOGIC RESOURCES (GENERAL)**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Identification of significant geologic features (caves, paleontological resources, landforms, glaciers, geothermal features, etc.) and geologic processes</li> </ul>	<ul style="list-style-type: none"> <li>• Existing literature, geologic resource evaluation reports</li> </ul>
<ul style="list-style-type: none"> <li>• Overview of geologic resource issues</li> </ul>	<ul style="list-style-type: none"> <li>• Geological maps and reports (GRD — Geologic Resources evaluation program maps and reports, U.S. Geological Survey, state geological surveys, local universities)</li> </ul>
<ul style="list-style-type: none"> <li>• Parkwide overview of surface resiliency, stability, and integrity (including slope stability and shoreline and fluvial processes) and related geologic hazards</li> </ul>	<ul style="list-style-type: none"> <li>• Soils data, reports, and maps available from NPS soils inventory and monitoring program, GRD soil inventories, or the National Resource Conservation Service or counties; use county soils maps if order 3 NRCS maps are not available</li> </ul>
	<ul style="list-style-type: none"> <li>• Coastal geomorphology data are available from the USGS, Army Corps of Engineers</li> </ul>
	<ul style="list-style-type: none"> <li>• Geologic Resources Division can help locate information, with advance notice</li> </ul>

## *Disturbed Lands, and NPS Use of Sand, Rock, and Gravel for In-Park Purposes*

**Program Lead:** Dave Steensen, (303) 969-2014

*NPS Reference Manual #77 — Disturbed Land Restoration:*  
<http://www.nature.nps.gov/rm77/Restore.htm>

*Use of Sand, Rock and Gravel (intranet site):*  
[http://www2.nrintra.nps.gov/grd/min\\_materials/](http://www2.nrintra.nps.gov/grd/min_materials/)

*GRD administrative sand and gravel (intranet site):*  
<http://www2.nrintra.nps.gov/grd/index.htm>

**TABLE L.8: DECISION-MAKING DATA NEEDS FOR DISTURBED LANDS AND USE OF SAND, ROCK, AND GRAVEL**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• General extent and location of abandoned roads, landfills, hazardous material sites, mines, campgrounds, dams, railroads, and other disturbed lands</li> </ul>	

**Paleontological Resources**

**Program Lead:** Vacant

*NPS Reference Manual #77: Paleontological Resources Management:*  
<http://www.nature.nps.gov/rm77/Paleo.htm>

*NPS Paleontology:* <http://www2.nature.nps.gov/geology/paleontology/surveys.cfm>

**TABLE L.9: DECISION-MAKING DATA NEEDS FOR PALEONTOLOGICAL RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Identification of paleontological resources (fossils) their geologic context, and their location or potential in the park</li> </ul>	<ul style="list-style-type: none"> <li>• Existing literature, geologic resource evaluation reports, and NPS paleontological resource surveys, inventories, and summaries produced by GRD and cooperating institutions</li> </ul>
<ul style="list-style-type: none"> <li>• Overview of paleontological resource issues (unauthorized collecting, scientific collecting/significance, high rates of erosion/exposure, accessibility to fossils, links with park stories, etc.)</li> </ul>	<ul style="list-style-type: none"> <li>• All I&amp;M Network parks will have initial paleontological resource summary completed by 2009 as part of an ongoing project</li> </ul>
<ul style="list-style-type: none"> <li>• Parkwide overview of paleontological resources, and the history of their study (if any) in the park; paleontological resources can include both known resources (fossils collected in the park) and potential resources (fossiliferous formations are mapped/ exposed in the park, but have not yet been assessed) and associated resource management issues</li> </ul>	<ul style="list-style-type: none"> <li>• Geological/paleontological maps and reports (GRD — Geologic Resources evaluation program maps and reports, U.S. Geological Survey, state geological surveys, local universities)</li> </ul>
<ul style="list-style-type: none"> <li>• Scientific significance as well as interpretive value of fossils should be assessed</li> </ul>	<ul style="list-style-type: none"> <li>• Geologic Resources Division can help locate information, with advance notice</li> </ul>

**Minerals and Energy Development**

**Program Lead:** Julia Brunner, (303) 969-2012

*Minerals:* <http://www2.nature.nps.gov/geology/mining/>

**Oil and Gas Planning Contact:** Lisa Norby, (303) 969-2318

*Oil and Gas:* [http://www2.nature.nps.gov/geology/oil\\_and\\_gas/](http://www2.nature.nps.gov/geology/oil_and_gas/)

**Adjacent (External) Minerals and Energy Development Contact:** Kerry Moss, (303) 969-2634

*Adjacent (External) Minerals and Energy Development:*  
[http://www2.nature.nps.gov/geology/adjacent\\_minerals/](http://www2.nature.nps.gov/geology/adjacent_minerals/)

**TABLE L.10: DECISION-MAKING NEEDS FOR MINERALS AND ENERGY DEVELOPMENT**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Overview of mineral development potential</li> </ul>	<ul style="list-style-type: none"> <li>• Bureau of Land Management and county records</li> </ul>
<ul style="list-style-type: none"> <li>• Evaluation of mineral rights ownership</li> </ul>	<ul style="list-style-type: none"> <li>• State division of mines/geology</li> </ul>
<ul style="list-style-type: none"> <li>• Overview of past or present mineral development that could affect management of the area as a park unit</li> </ul>	<ul style="list-style-type: none"> <li>• Aerial photography</li> </ul>
<ul style="list-style-type: none"> <li>• Evaluation of extent, and location, if known, of mineral-related ownerships, easements, rights-of-way, exploration and extraction activity, and impacts</li> </ul>	<ul style="list-style-type: none"> <li>• State oil and gas division records and studies</li> </ul>

Data Needs	Sources
	<ul style="list-style-type: none"> <li>• Park GIS and surveys (field GIS technical support center or DSC can assist)</li> </ul>
	<ul style="list-style-type: none"> <li>• GRD minerals/oil and gas database, park minerals databases</li> </ul>
	<ul style="list-style-type: none"> <li>• Geologic Resources Division can help locate information, with advance notice</li> </ul>

## Water Resources

### *WRD Planning*

**Planning Lead:** David Vana-Miller, (303) 969-2813

*WRD (intranet site):* <http://www1.nrintra.nps.gov/wrd/>

The following website includes most of WRD's planning products, which can be read, downloaded, or printed.

*WRD Planning:* <http://www.nature.nps.gov/water/planning.cfm>

If there a water quality report exists for the park you are interested in, contact Dave Vana-Miller in WRD with assistance interpreting the data.

### *Water Quality Inventories:*

<http://www.nature.nps.gov/water/horizon.cfm>

### *Designated Uses and Water Quality Standards*

Planners should check with the appropriate state office / website for designated uses and water quality standards for water bodies in a park and water quality monitoring by the state in and around the park. A good resource is each state's 305(b) report, which is done every two years per the Clean Water Act, section 305(b). It summarizes water quality and pollution abatement for a state, and it may have information on waters in a particular park.

### *Coastal and Watershed Condition Assessments*

**Coastal Condition Assessment Program Lead:** Cliff McCreedy, (202) 513-7164

**Watershed Condition Assessments Program Lead:** Jeff Albright, (970) 225-3528

*Watershed Condition Assessments (intranet site):*

<http://www1.nrintra.nps.gov/wrd/Watershed/watershedcond1.cfm>

### *Fisheries*

**Program Lead:** Jim Tilmant, (970) 225-3547

<http://nature.nps.gov/water/fisheries.cfm>

### *Floodplains*

**Program Lead:** Gary Smillie, (970) 225-3522

*DO #77-2: Floodplain Management:*  
[www.nps.gov/policy/DOrders/DO77-2--Floodplains.pdf](http://www.nps.gov/policy/DOrders/DO77-2--Floodplains.pdf)

**Marine Resources**

**Program Lead:** Cliff McCreedy, (202) 513-7164  
<http://nature.nps.gov/water/marine.cfm>

**Water Rights**

**Program Lead:** Chuck Pettee, (970) 225-3505  
<http://nature.nps.gov/water/flow.cfm>

**Wetlands**

**Program Lead:** Joel Wagner, (303) 969-2955  
<http://nature.nps.gov/water/wetlands.cfm>  
*DO #77-1: Wetland Protection:* [www.nps.gov/policy/DOrders/DO77-1-Reissue.htm](http://www.nps.gov/policy/DOrders/DO77-1-Reissue.htm)  
*Procedural Manual #77-1:* <http://www.nature.nps.gov/wetlands/indexpro.html>

**TABLE L.11: DECISION-MAKING DATA NEEDS FOR WATER RESOURCES**

Data Needs	Sources
• Parkwide water quality status	• State 305b Water Quality Report
• Parkwide wetlands/floodplains status	• State 303d Impaired Waters List
• Parkwide water rights status	• National wetlands inventory map
• Overview of water resources issues	• Technical literature review
	• Internet websites
	• Park resources management plan or resource stewardship plan
	• Water resources foundation report
	• Water resources information & issues overview report
	• Park water resources management plan or water resources scoping report
	• Park fisheries management plan
	• NPS/WRD baseline water quality data inventory and analysis report for park
	• Level I water quality invent
	• Park watershed condition assessment reports
	• Water quality, land health, and wetlands/riparian related GPRA reporting data
	• Floodplains: Federal Emergency Management Administration flood insurance rate maps
	• Wetlands: U.S. Fish and Wildlife Service (USFWS) / National Wetlands Inventory
	• Local utilities
	• NPS Water Resources Division can provide water rights data and assist in obtaining other data

## L.4 SOCIAL SCIENCE

Visiting Chief Scientist: Dr. Jim Gramann, (202) 513-7189

NPS Social Science Program: <http://inside.nps.gov/waso/waso.cfm?lv=2&prg=38>  
<http://www.nature.nps.gov/socialscience/>

### Visitor Use

Public Use Statistics Office: Butch Street, (303) 343-2704

<http://www2.nature.nps.gov/stats/>

**TABLE L.12: DECISION-MAKING DATA NEEDS FOR VISITOR USE**

Data Needs	Sources
<ul style="list-style-type: none"> <li>A detailed profile of park visitors during peak visitation seasons</li> </ul>	<ul style="list-style-type: none"> <li>Visitor services project study (10 per year conducted systemwide)</li> </ul>
<ul style="list-style-type: none"> <li>Visitation trends analysis</li> </ul>	<ul style="list-style-type: none"> <li>Person per vehicle/public use statistics, and social demographic data bases</li> </ul>
	<ul style="list-style-type: none"> <li>Park annual interpretive program report</li> </ul>
	<ul style="list-style-type: none"> <li>Park monthly public use report</li> </ul>
	<ul style="list-style-type: none"> <li>NPS public use statistics office</li> </ul>

### Regional Socioeconomics

**TABLE L.13: DECISION-MAKING DATA NEEDS FOR REGIONAL SOCIOECONOMICS**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Contemporary trends in the surrounding community</li> </ul>	<ul style="list-style-type: none"> <li>Social demographic data bases</li> </ul>
<ul style="list-style-type: none"> <li>Economic analysis of the local economy, including the park's impact</li> </ul>	<ul style="list-style-type: none"> <li>Specialized economic assessment (contracted or in-house)</li> </ul>
	<ul style="list-style-type: none"> <li>Money generation model</li> </ul>
	<ul style="list-style-type: none"> <li>Park annual interpretive program report</li> </ul>
	<ul style="list-style-type: none"> <li>Park monthly public use report</li> </ul>
	<ul style="list-style-type: none"> <li>Socioeconomic atlas</li> </ul>

### Viewsheds / Viewscapes

**TABLE L.14: DECISION-MAKING DATA NEEDS FOR VIEWSHEDS**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Viewshed analysis</li> </ul>	<ul style="list-style-type: none"> <li>Integral vista list (class I parks)</li> </ul>
<ul style="list-style-type: none"> <li>Viewscape quality analysis (analysis of public/visitor perceptions of views)</li> </ul>	<ul style="list-style-type: none"> <li>Park GIS or field GIS technical support center</li> </ul>
	<ul style="list-style-type: none"> <li>Special viewscape studies</li> </ul>
	<ul style="list-style-type: none"> <li>Other agency viewscape analyses (e.g., U.S. Department of Agriculture, Forest Service, <i>Landscape Aesthetics: A Handbook for Scenery Management</i>, Agricultural Handbook 701, 1995.)</li> </ul>

## L.5 CULTURAL RESOURCES

### Cultural Resource Directorate Websites

This site outlines NPS cultural resources programs and their functions, and it lists primary contacts. These programs include not only those for park cultural resources, but also broader nationwide programs for historical documentation and heritage preservation.

*Intranet site:* <http://www.inside.nps.gov/waso/orglist.cfm?lv=1&prg=2>  
[www.cr.nps.gov](http://www.cr.nps.gov)

### All Cultural Resources

#### *Laws, Regulations, Standards and Guidance*

DO #28 and the *Cultural Resource Management Guideline* present basic information about principles, standards, and practices for management of cultural resources within units of the National Park System, including compliance with section 106 of the National Historic Preservation Act.

*DO #28: Cultural Resource Management:*  
<http://www.nps.gov/policy/DOrders/DOrder28.html>

*Cultural Resource Management Guideline:*  
[http://www.cr.nps.gov/history/online\\_books/nps28/28contents.htm](http://www.cr.nps.gov/history/online_books/nps28/28contents.htm)

#### *CRM Laws, Executive Orders, and Regulations*

**NPS Preservation Compliance Coordinator:** Caroline Hall, (202) 354-2024

The following website lists various legal mandates related to cultural resources:

[www.cr.nps.gov/laws.htm](http://www.cr.nps.gov/laws.htm)

#### *Archeology and Historic Preservation*

The *Secretary of the Interior's Standards* provide technical advice on archeological and historic preservation activities and methods for the full range of historic preservation practices, from preservation planning to identification, evaluation, and documentation. The standards include the *Secretary of the Interior's Standards and Guidelines for the Treatment of Historic Properties*. The four treatment standards are preservation, rehabilitation, restoration, and reconstruction. Explanation and guidance on the application of the treatment standards is available at [www.cr.nps.gov/hps/tps/standards\\_guidelines.htm](http://www.cr.nps.gov/hps/tps/standards_guidelines.htm). See also *Guidelines for the Treatment of Cultural Landscapes* [www.cr.nps.gov/hps/hli/introguid.htm](http://www.cr.nps.gov/hps/hli/introguid.htm).

*Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation* (as amended and annotated): [http://www.cr.nps.gov/local-law/arch\\_stnds\\_0.htm](http://www.cr.nps.gov/local-law/arch_stnds_0.htm)

#### *National Historic Preservation Act*

The website of the Advisory Council on Historic Preservation includes a users' guide to the section 106 process, as well as many other resources, including information about training and about federal, state, and tribal historic preservation programs and contacts.

<http://www.achp.gov>

Section 110 of the National Historic Preservation Act outlines the historic preservation responsibilities of federal agencies. These standards and guidelines for federal preservation programs are designed to help federal agencies meet their responsibilities to integrate historic preservation into their ongoing programs, in keeping with the broad section 110 mandate.

*Secretary of the Interior's Standards and Guidelines for Federal Agency Historic Preservation Programs Pursuant to the National Historic Preservation Act:*  
[http://www.cr.nps.gov/hps/fapa\\_110.htm](http://www.cr.nps.gov/hps/fapa_110.htm)

## **National Preservation Programs**

### *American Battlefield Protection Program*

The American Battlefield Protection Program (ABPP) helps communities, states, the National Park Service, and other federal agencies identify, document, and plan for the protection of historic battlefields in the United States through project grants and technical assistance. Land and Water Conservation Fund (LWCF) grants are available to states and local governments for the acquisition and preservation of threatened Civil War battlefields. LWCF grant funds cannot be used to acquire lands within the existing boundaries of a park unit.

<http://www.cr.nps.gov/hps/abpp>

### *Cultural Resources Geographical Information Systems Facility*

The Cultural Resources Geographical Information Systems (CRGIS) facility documents cultural resources both within parks and on other public and private lands through the use of GIS and GPS, develops GIS applications for cultural resources, and develops standards for cultural resource spatial data that will be used by all federal agencies.

<http://www.cr.nps.gov/hdp/crgis/index.htm>

### *Federal Preservation Institute*

An NPS program, the Federal Preservation Institute (FPI) provides historic preservation information and training to all federal agencies through monthly training meetings, information papers and publications, and the Historic Preservation Learning Portal ([www.historicpreservation.gov](http://www.historicpreservation.gov)). Upon request from federal agencies, it provides customized training and presentations designed to assist in developing and carrying out federal agency responsibilities under section 110 of the National Historic Preservation Act.

<http://www.historicpreservation.gov/fpi>

### *Heritage Areas*

Congress has established a number of national heritage areas around the country, in which conservation, interpretation, and other activities are managed by partnerships among federal, state, and local governments and the private sector. The National Park Service provides technical and financial assistance for a limited number of years following designation. Some of these heritage areas include national parks within their boundaries.

<http://www.cr.nps.gov/heritageareas>

### ***Historic Preservation Planning Program***

The Historic Preservation Planning Program sets policy for, delivers guidance about, oversees the implementation of the statewide historic preservation planning programs carried out by state historic preservation offices under the National Historic Preservation Act, and interprets the *Secretary of the Interior's Standards and Guidelines for Preservation Planning*. Guidance in preservation planning and cultural resource management is also developed for local communities, American Indian tribes, and federal agencies.

<http://www.cr.nps.gov/hps/pad/index.htm>

### ***Maritime Heritage Program***

The Maritime Heritage Program advances awareness and understanding of the role of maritime affairs in the history of the United States. The program maintains inventories of historic U.S. maritime properties, provides assistance through publications and consultation, educates the public about maritime heritage, sponsors conferences and workshops, and funds maritime heritage projects when grant assistance is available.

<http://www.cr.nps.gov/maritime>

### ***National Center for Preservation Technology and Training***

The National Center for Preservation Technology and Training (NCPTT) uses science and technology to advance the field of historic preservation, particularly in the areas of archaeology, architecture, landscape architecture, and materials conservation. The center promotes and develops research, training, and grant programs to help other agencies and organizations leverage the latest technology, exploit innovation, and transfer technologies from nontraditional arenas. Research and training reports and multimedia products are available on-line at the following website:

<http://www.ncptt.nps.gov>

### ***National Historic Landmarks***

National historic landmarks are nationally significant historic places designated by the Secretary of the Interior because they possess exceptional value or quality in illustrating or interpreting the heritage of the United States. The following website has a searchable online database. Landmarks are listed on the National Register of Historic Places, and they are subject to both section 106 and section 110(f) of the National Historic Preservation Act.

<http://http://www.cr.nps.gov/history/nhl/>

*List of national historic landmarks:* <http://www.cr.nps.gov/nhl/designations/listsofNHLS.htm>

### ***National Register of Historic Places***

The National Register of Historic Places is the nation's official federal list of cultural resources that are in public and private hands and that are worthy of preservation. Under the NHPA, the national register is part of a national program to coordinate and support public and private efforts to identify, evaluate, and protect historic and archeological resources nationwide. Properties listed on the register include districts, sites, buildings, structures, and

objects that are significant in American history, architecture, archeology, engineering, and culture.

<http://www.cr.nps.gov/nr>

*NRIS database (searchable):* <http://www.nps.gov/history/nr/research/nris.htm>

### ***Technical Preservation Services (TPS)***

Technical Preservation Services (TPS) creates and maintains the *Secretary of the Interior's Standards for the Treatment of Historic Properties* and the accompanying *Guidelines for Preservation, Rehabilitation, Restoration, and Reconstruction*; maintains an active publications program; and administers the Historic Preservation Tax Incentives program.

<http://www.cr.nps.gov/hps/tps/index.htm>

### **Stakeholders and Consulting Parties**

#### ***American Indian Liaison Office***

The American Indian Liaison Office helps NPS field and program managers interact with American Indian tribes and Alaska Natives on a government-to-government basis, and it provides guidance concerning Indian self-determination, tribal self-governance, and effective means of working with all parties. For more information about parks and tribes, government-to-government relationships, and other related topics, visit the following websites:

<http://www.nps.gov/history/ailo/ailohome.htm>

*Intranet site:* <http://inside.nps.gov/waso/waso.cfm?lv=2&prg=20>

#### ***Certified Local Government Program***

The Certified Local Government Program (CLG) was established by the National Historic Preservation Act to promote historic preservation at the local level. Local government preservation programs that meet certain qualifications and standards are certified through a joint NPS-SHPO process. Upon certification, local governments become official partners with tribes and federal agencies in the national historic preservation program. For very recently certified communities, contact the CLG Program Coordinator in the relevant State Historic Preservation Office or visit [http://grants.cr.nps.gov/CLGs/CLG\\_Search.cfm](http://grants.cr.nps.gov/CLGs/CLG_Search.cfm).

<http://www.cr.nps.gov/hps/clg/index.htm>

#### ***NPS Tribal Historic Preservation Program***

The Tribal Historic Preservation Program administers two Historic Preservation Fund grant programs for American Indian tribes for cultural and historic preservation programs and projects. The program also administers the process for establishing tribal historic preservation officers (THPOs), who assume National Historic Preservation Act responsibilities from the states in which their tribal lands lie. For more information, including a list of THPOs, visit the following website or contact James Bird, (202) 354-1837.

<http://www.cr.nps.gov/hps/tribal/index.htm>

### *State Historic Preservation Offices*

A list of state historic preservation offices can be found at the National Conference of State Historic Preservation Officers website.

<http://www.ncshpo.org/stateinfo/>

### *Tribal Historic Preservation Offices*

The address website of the National Association of Tribal Historic Preservation Officers is as follows:

<http://www.nathpo.org/>

## **History**

### *Park History Program*

**Acting Program Lead:** Martin Perschler, (202) 354-2214

<http://www.cr.nps.gov/history>

*Intranet site:* <http://www.inside.nps.gov/waso/waso.cfm?prg=286&lv=3>

The following directory of NPS historians includes individuals' contact information and areas of expertise.

*Directory of National Park Service Historians:*  
[www.cr.nps.gov/history/NPSHistorians06.pdf](http://www.cr.nps.gov/history/NPSHistorians06.pdf)

### *Handbook for Oral History in the National Park Service*

The *Handbook for Oral History* (NPS 2004d) provides information about how and when oral history serves best as a research tool, and about practices for carrying out oral history projects, and preserving and making accessible the results of such projects.

<http://www.cr.nps.gov/history/oh/oralh1.htm>

### *NPS Thematic Framework*

The thematic framework for history and prehistory is a conceptual tool, an outline of major themes and contexts, for evaluating the significance of cultural resources within or outside the National Park Service. For example, it shapes the evaluation of national significance in NPS special resource studies and in national historic landmark nominations. The text and some additional information are at the Park History website listed above.

**TABLE L.15: DECISION-MAKING DATA NEEDS FOR CULTURAL RESOURCES (GENERAL)**

<b>Data Needs</b>	<b>Sources</b>
<ul style="list-style-type: none"> <li>Types of known (or expected) cultural resources, including analysis of gaps in survey and evaluation efforts to date</li> </ul>	<ul style="list-style-type: none"> <li>National Historic Landmark documentation</li> </ul>
<ul style="list-style-type: none"> <li>Contextual information about cultural resources</li> </ul>	<ul style="list-style-type: none"> <li>National Register files</li> </ul>
<ul style="list-style-type: none"> <li>The general condition and integrity of resources and which factors affect that condition and which qualities contribute to that integrity</li> </ul>	<ul style="list-style-type: none"> <li>HABS/HAER/HALS documentation</li> </ul>

Data Needs	Sources
<ul style="list-style-type: none"> <li>Legal and administrative issues that historically have influenced park land acquisition and other park management actions</li> </ul>	<ul style="list-style-type: none"> <li>World Heritage Site documentation</li> </ul>
<ul style="list-style-type: none"> <li>Values of cultural resources held by traditionally associated peoples, descendent and local communities, and interested public</li> </ul>	<ul style="list-style-type: none"> <li>Literature search of existing historic contexts, theme studies, regional overviews, inventories, and assessments conducted by the National Park Service, state and tribal historic preservation officers, state archeologists, and others</li> </ul>
	<ul style="list-style-type: none"> <li>Park administrative history</li> </ul>
	<ul style="list-style-type: none"> <li>Park resource stewardship strategy</li> </ul>
	<ul style="list-style-type: none"> <li>Park historic resource study</li> </ul>
	<ul style="list-style-type: none"> <li>Park historical base map</li> </ul>
	<ul style="list-style-type: none"> <li>Geographic informational system (GIS) data</li> </ul>
	<ul style="list-style-type: none"> <li>Park cultural resource databases</li> </ul>
	<ul style="list-style-type: none"> <li>Results of public involvement and consultation (meetings, citizen panels, etc.)</li> </ul>
	<ul style="list-style-type: none"> <li>Descriptions of significance in national, regional, state and local contexts</li> </ul>
	<ul style="list-style-type: none"> <li>Other federal, state, tribal, and local sources for data</li> </ul>
	<ul style="list-style-type: none"> <li>Other relevant scholarly and/or thematic literature</li> </ul>
	<ul style="list-style-type: none"> <li>Additional resource-specific sources listed below</li> </ul>

## Archeological Resources

**Program Lead:** Frank McManamon, (202) 354-2123

*Archeology Program:* <http://www.cr.nps.gov/archeology/>

*Archeology Division Intranet:* <http://www.inside.nps.gov/waso/waso.cfm?prg=279&lv=3>

### *Archeological Sites Management Information System*

The Archeological Sites Management Information System (ASMIS) is the National Park Service's database for the basic registration and management of park prehistoric and historic archeological resources. For access, contact the park's archeologist or CRM program manager, or the Regional ASMIS coordinator. Much ASMIS data is now being integrated into park GIS.

*ASMIS coordinators (intranet site):*

<http://inside.nps.gov/waso/custommenu.cfm?lv=3&prg=279&id=1018>

DO #28A (NPS 2004c) supplements the general description of archeological program in DO #28 and the accompanying *Cultural Resource Management Guideline* and promotes a common management framework for planning for and managing archeological resources and activities within national parks as well as in archeological assistance responsibilities outside the national park system.

*DO #28A: Archeology:* <http://www.nps.gov/policy/DOrders/DOrder28A.html>

The following computerized network provides access to information on archeological activities nationwide, including NADB reports, a bibliographic inventory of reports on archeological planning and investigation.

*National Archeological Database:* <http://www.cr.nps.gov/archeology/TOOLS/nadb.htm>

**TABLE L.16: DECISION-MAKING DATA NEEDS FOR ARCHEOLOGICAL RESOURCES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Overview of known and potential (expected) archeological resources in the area, including type, general distribution, and level of significance (national, regional, state, or local significance)</li> </ul>	<ul style="list-style-type: none"> <li>Archeological site records</li> </ul>
<ul style="list-style-type: none"> <li>Description and evaluation of known and potential (expected) archeological sites, including their location, characteristics, condition, and potential scientific and associative values, including National Register, National Historic Landmark, and interpretive values</li> </ul>	<ul style="list-style-type: none"> <li>National Register files</li> </ul>
<ul style="list-style-type: none"> <li>Notation of areas surveyed and level of survey</li> </ul>	<ul style="list-style-type: none"> <li>National Historic Landmark files</li> </ul>
<ul style="list-style-type: none"> <li>For interpretive purposes, identification and documentation of archeological resources related to histories of traditional users and descendent communities and related to primary interpretive themes identified in the foundation document</li> </ul>	<ul style="list-style-type: none"> <li>World Heritage Site files</li> </ul>
	<ul style="list-style-type: none"> <li>Reports of archeological field surveys and assessments</li> </ul>
	<ul style="list-style-type: none"> <li>Systemwide Archeological Inventory Program plans for region</li> </ul>
	<ul style="list-style-type: none"> <li>National Archeological Data Base (NADB)</li> </ul>
	<ul style="list-style-type: none"> <li>State, tribal and local inventories, including museum-held inventories</li> </ul>
	<ul style="list-style-type: none"> <li>Park base map (electronic/GIS format or paper) of archeological sites</li> </ul>
	<ul style="list-style-type: none"> <li>Park ASMIS data</li> </ul>
	<ul style="list-style-type: none"> <li>Park archeological overview and assessment</li> </ul>

## Historic Structures

**Program Lead:** Randy Biallas, (202) 354-2061

*Park Historic Structures Program:* <http://www.cr.nps.gov/HS.htm>

*Park Historic Structures and Cultural Landscapes Division (intranet site):*  
<http://www.inside.nps.gov/waso/waso.cfm?prg=287&lv=3>

### List of Classified Structures:

The List of Classified Structures (LCS) is the primary computerized database inventorying and describing historic and prehistoric structures where the National Park Service has (or plans to acquire) a legal interest. For access, contact the Regional LCS coordinator.

### Historic American Buildings Survey

**Acting Program Lead:** Catherine Lavoie, (202) 354-2185

The Historic American Buildings Survey (HABS) was created in 1933 to document the nation's architectural heritage through the production of measured drawings, histories, and large-format black-and-white photographs to create a comprehensive interdisciplinary and publicly accessible record.

<http://www.cr.nps.gov/habshaer/habs/>

*Library of Congress:* [http://memory.loc.gov/ammem/collections/habs\\_haer/](http://memory.loc.gov/ammem/collections/habs_haer/)

### *Historic American Engineering Record*

**Acting Program Lead:** Richard O'Connor, (202) 354-2186

The Historic American Engineering Record (HAER) was established in 1969 to document nationally and regionally significant engineering and industrial sites. HAER documentation, similar to HABS, is also available at the Library of Congress.

<http://www.cr.nps.gov/habshaer/haer/>

*Library of Congress:* [http://memory.loc.gov/ammem/collections/habs\\_haer](http://memory.loc.gov/ammem/collections/habs_haer)

**TABLE L.17: DECISION-MAKING DATA NEEDS FOR HISTORIC STRUCTURES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Location, historical development, and character-defining features of historic structures in the park</li> </ul>	<ul style="list-style-type: none"> <li>Park list of classified structures (to be included as appendix in GMP with selected categorized information)</li> </ul>
<ul style="list-style-type: none"> <li>Analysis of any gaps in the park's inventory of historic structures</li> </ul>	<ul style="list-style-type: none"> <li>HABS/HAER documentation of historic architectural and engineering sites and structures</li> </ul>
	<ul style="list-style-type: none"> <li>Park historic resource study</li> </ul>

### **Cultural Landscapes**

**Program Lead:** Randy Biallas, (202) 354-2061

<http://www.cr.nps.gov/cl.htm>

*Intranet site:* <http://www.inside.nps.gov/waso/waso.cfm?prg=287&lv=3>

#### *Cultural Landscapes Inventory*

The CLI is an evaluated inventory of all cultural landscapes in national park system units having historical significance or where the National Park Service has or plans to acquire any enforceable legal interest.

For access, contact the Regional CLI coordinator.

#### *Historic American Landscape Survey*

**Program Lead:** Paul Dolinsky, (202) 354-2116

The Historic American Landscape Survey (HALS) was established to record historic landscapes in the United States and its territories. Like its sister programs, the Historic American Buildings Survey (HABS) and the Historic American Engineering Record (HAER), HALS contains written and graphic records of interest to educators, land managers, and preservation planners.

<http://www.cr.nps.gov/habshaer/hals/index.htm>

#### *Historic Landscape Initiative*

**Program Lead:** Charles Birnbaum, (202) 354-2076

The Historic Landscape Initiative (HLI) develops preservation planning tools that respect and reveal the relationships between Americans and their land, and provides guidance on sound preservation practice, including *Guidelines for the Treatment of Cultural Landscapes*.

<http://www.cr.nps.gov/hps/hli/index.htm>

*Guidelines for the Treatment of Cultural Landscapes:*  
[http://www.cr.nps.gov/hps/hli/landscape\\_guidelines](http://www.cr.nps.gov/hps/hli/landscape_guidelines)

**TABLE L.18: DECISION-MAKING DATA NEEDS FOR CULTURAL LANDSCAPES**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Location, historical development, and landscape characteristics and features of cultural landscapes in the park</li> </ul>	<ul style="list-style-type: none"> <li>• Park cultural landscapes inventory/report</li> </ul>
<ul style="list-style-type: none"> <li>• Analysis of any gaps in the park’s inventory of cultural landscapes</li> </ul>	<ul style="list-style-type: none"> <li>• HALS documentation</li> </ul>
	<ul style="list-style-type: none"> <li>• CRGIS maps and datasets</li> <li>• Park historic resource study</li> </ul>

**Ethnographic Resources**

**Acting Program Lead:** Mark Schoepfle, (202) 354-2105

<http://www.cr.nps.gov/ethnography>

*Park Ethnography Division (intranet site):*  
<http://www.inside.nps.gov/waso/waso.cfm?prg=726&lv=3>

*Ethnographic Resources Inventory (ERI):*

The ERI is a listing of park cultural and natural features accorded significance by traditionally associated people. For access, contact Mark Schoepfle.

**TABLE L.19: DECISION-MAKING DATA NEEDS FOR ETHNOGRAPHIC RESOURCES (INCLUDING TRADITIONAL USE OF NATURAL RESOURCES)**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Ethnographic identification of resource concerns, landscapes, and interpretive issues of associated groups (e.g., Native Americans, African Americans, and other traditional users of park resources)</li> </ul>	<ul style="list-style-type: none"> <li>• Rapid ethnographic assessment procedures (REAP)</li> </ul>
<ul style="list-style-type: none"> <li>• Recommendations for dialogues with affected groups</li> </ul>	<ul style="list-style-type: none"> <li>• Consultation with affected groups</li> </ul>
<ul style="list-style-type: none"> <li>• Traditional uses of cultural and natural resources (e.g., for religious, medicinal, subsistence, residential purposes) (REAP)</li> </ul>	<ul style="list-style-type: none"> <li>• Park ethnographic overview and assessment (O&amp;A)</li> </ul>
<ul style="list-style-type: none"> <li>• Ethnographic identification, review, and evaluation of available data on family, community, and relationships between park resources and Native American, African American, and other traditional users; consultation with affected groups</li> </ul>	<ul style="list-style-type: none"> <li>• Park traditional use study (TUS)</li> </ul>
<ul style="list-style-type: none"> <li>• Documentation of traditional subsistence, religious, uses, resource management practices, and community dynamics; identification of non-renewable of resources</li> </ul>	<ul style="list-style-type: none"> <li>• Ethnographic ethnohistory</li> </ul>

Data Needs	Sources
<ul style="list-style-type: none"> <li>For interpretive purposes, documentation of relationships between park resources and traditional users as related to social organization, religion, other elements of cultural heritage, ethnicity, demography, and economy, both contemporary and ethno-historical</li> </ul>	<ul style="list-style-type: none"> <li>Oral and life histories</li> </ul>
	<ul style="list-style-type: none"> <li>Ethnographic landscape study</li> </ul>

## Museum Collections

**Acting Program Lead:** Lynn Black, (202) 354-2002

This site includes virtual museum exhibits featuring NPS collections; park museum collection profiles; the NPS Web Catalog; NPS museum publications, including the Museum Handbook which has policies and procedural guidance on the preservation and protection, documentation, and access to and use of NPS museum and archival collections, and the Conserve-O-Gram series of technical leaflets providing up-to-date information on new techniques and practices in museum collections management, including preservation and protection, storage and exhibit, and curatorial health and safety.

*Park Museum Management Program:* <http://www.cr.nps.gov/museum/>

*Park Museum Management Division (intranet site):*  
<http://www.inside.nps.gov/waso/waso.cfm?prg=284&lv=3>

### *Automated National Catalog System*

The computerized National Catalog of Museum Objects lists all cultural objects and natural history specimens that meet the criteria for museum objects in the national park system. For access to the system, contact the regional curator.

### *Director's Order #24: NPS Museum Collections Management*

Director's Order #24 supplements the NPS *Management Policies*. It is augmented by procedures in the *Museum Handbook* (NPS 2006b) and it supersedes the following Special Directives: 80-1: "Guidance for Meeting NPS Preservation and Protection Standards for Museum Collections"; 87-3: "Conservation of Archeological Resources" (as it pertains to museum collections); 91-4: "Ensuring that Natural Resource Projects Fund the Curation of Collections"; 94-6: "Ensuring that Projects Generating Museum Collections Fund Cataloging and Basic Preservation"; 93-2: "Preserving NPS Cellulose Nitrate Film Collections"; and Staff Directive 87-1: "NPS Clearinghouse Procedures and Requirements Regarding Disposal and Acquisition of Excess and Needed Museum Objects."

<http://www.nps.gov/policy/DOrders/DOrder24.html>

**TABLE L.20: DECISION-MAKING DATA NEEDS FOR MUSEUM COLLECTIONS**

Data Needs	Sources
<ul style="list-style-type: none"> <li>Brief description of the types and numbers of objects/specimens/archives in the museum collections and their significance</li> </ul>	<ul style="list-style-type: none"> <li>Description of collections provided by current owner or affiliated museums/groups</li> </ul>
<ul style="list-style-type: none"> <li>General status of documentation (cataloging), storage (onsite, offsite), security, fire protection, collection condition, NAGPRA compliance, and frequency and type of use</li> </ul>	<ul style="list-style-type: none"> <li>Existing data on archeological, natural, and other resources that have potential to generate collections</li> </ul>

Data Needs	Sources
	<ul style="list-style-type: none"> <li>• Park scope of collections statement</li> <li>• Park collections management report</li> </ul>
	<ul style="list-style-type: none"> <li>• Park checklist for preservation and protection of museum collections</li> </ul>
	<ul style="list-style-type: none"> <li>• Data from survey of federally associated collections in nonfederal institutions; NAGPRA summary (1993) and NAGPRA list (1995) and associated files</li> </ul>

## L.6 REAL PROPERTY ASSETS

**Facility Management Division Contacts** (for information on asset management, including deferred maintenance): Tim Harvey, Branch Chief Asset Management, (202) 513-7034

**Construction Program Management Division** (for information on new construction and the facility planning model): Mike LeBorgne, Division Manager, (303) 969-2178

The following website describes the purpose and mission of the Facility Management Program and its main functions. Links are provided to program management, asset management, and system management, among other items.

*Facility Management Program:* <http://inside.nps.gov/waso/waso.cfm?prg=155&lv=3>

**TABLE L.21: DECISION-MAKING DATA NEEDS FOR REAL PROPERTY ASSET MANAGEMENT**

Data Needs	Sources
<ul style="list-style-type: none"> <li>• Facility inventory</li> </ul>	<ul style="list-style-type: none"> <li>• Park asset management plan</li> </ul>
<ul style="list-style-type: none"> <li>• Facility condition index (FCI)</li> </ul>	<ul style="list-style-type: none"> <li>• Facility management software system (FMSS)</li> </ul>
<ul style="list-style-type: none"> <li>• Asset priority index (API)</li> </ul>	<ul style="list-style-type: none"> <li>• Approved current PMIS statements</li> <li>• Facility management software system (FMSS)</li> </ul>
<ul style="list-style-type: none"> <li>• Square footage and new facility costs (one-time capital construction, annual recurring, and, life-cycle costs)</li> </ul>	<ul style="list-style-type: none"> <li>• Line-item construction 5-year plan</li> </ul>

## L.7 OTHER REFERENCE WEBSITES

The following list is a compilation of useful websites for planners working on GMPs. The websites are grouped according to whether they are NPS or non-NPS sites that everybody can access. Sites that are NPS intranet sites are marked with asterisks. Websites are constantly changing, so the listed links may not all work. Please inform DSC Planning of any sites that are not working and/or other useful sites that are not included in these lists. (Also see Appendix M for other resources.)

**TABLE L.22: NPS WEBSITES**

Website Name / Topic	URL Internet Address
<b>Cultural Resources</b>	
Abandoned Shipwreck Act Guidelines	<a href="http://www.cr.nps.gov/aad/submerged/intro.htm">http://www.cr.nps.gov/aad/submerged/intro.htm</a>
American Indian Liaison Office	<a href="http://www.nps.gov/history/ailo/ailohome.htm">http://www.nps.gov/history/ailo/ailohome.htm</a>
Cultural Landscapes	<a href="http://www.cr.nps.gov/hps/hli/index.htm">http://www.cr.nps.gov/hps/hli/index.htm</a>
Cultural Resource Laws, Regulations, and Standards	<a href="http://www.cr.nps.gov/laws.htm">http://www.cr.nps.gov/laws.htm</a> <a href="http://www.cr.nps.gov/standards.htm">http://www.cr.nps.gov/standards.htm</a>

Website Name / Topic	URL Internet Address
Federal Preservation Institute	<a href="http://historicpreservation.gov/fpi">http://historicpreservation.gov/fpi</a>
Historic American Buildings Survey/Historic American Engineering Record/link to Historic American Landscapes Survey	<a href="http://www.cr.nps.gov/habshaer">http://www.cr.nps.gov/habshaer</a>
National Archeological Data Base	<a href="http://www.cr.nps.gov/archeology/TOOLS/nadb.htm">www.cr.nps.gov/archeology/TOOLS/nadb.htm</a>
National Heritage Areas	<a href="http://www.cr.nps.gov/heritageareas">http://www.cr.nps.gov/heritageareas</a>
National Historic Landmarks	<a href="http://www.nps.gov/history/nhl">http://www.nps.gov/history/nhl</a>
National Register of Historic Places (criteria, procedures, listings, bulletins)	<a href="http://www.nps.gov/nr">http://www.nps.gov/nr</a>
National Register of Historic Places, National Register Information System	<a href="http://www.nps.gov/nr/">http://www.nps.gov/nr/</a>
Native American Consultations Database	<a href="http://home.nps.gov/nacd">http://home.nps.gov/nacd</a>
NPS Archeology Program	<a href="http://www.cr.nps.gov/archeology">http://www.cr.nps.gov/archeology</a>
NPS Collections Program	<a href="http://www.cr.nps.gov/museum">http://www.cr.nps.gov/museum</a>
NPS Cultural Resources Diversity Program	<a href="http://www.cr.nps.gov/crdi">http://www.cr.nps.gov/crdi</a>
NPS Ethnography Program	<a href="http://www.cr.nps.gov/ethnography">http://www.cr.nps.gov/ethnography</a>
NPS History and Culture	<a href="http://www.cr.nps.gov">http://www.cr.nps.gov</a>
NPS History and Culture Publications	<a href="http://www.cr.nps.gov/publications.htm">http://www.cr.nps.gov/publications.htm</a>
NPS Thematic Framework (1994)	<a href="http://www.cr.nps.gov/history/history/categrs/index.htm">http://www.cr.nps.gov/history/history/categrs/index.htm</a>
Park Collections Management Reports	<a href="http://www.inside.nps.gov/cmr">http://www.inside.nps.gov/cmr</a>
Park History	<a href="http://www.cr.nps.gov/history/index.asp">http://www.cr.nps.gov/history/index.asp</a>
<i>Secretary of the Interior's Standards and Guidelines for Archeology and Historic Preservation</i>	<a href="http://www.cr.nps.gov/local-law/arch_stdnds_0.htm">http://www.cr.nps.gov/local-law/arch_stdnds_0.htm</a>
<i>Secretary of the Interior's Standards and Guidelines for Federal Agency Historic Preservation Programs Pursuant to the National Historic Preservation Act (NHPA sec. 10 guidelines)</i>	<a href="http://www.cr.nps.gov/hps/fapa_110.htm">http://www.cr.nps.gov/hps/fapa_110.htm</a>
<i>Secretary of the Interior's Standards and Guidelines for the Treatment of Historic Properties (Preservation, Rehabilitation, Restoration, Reconstruction)</i>	<a href="http://www.cr.nps.gov/hps/tps/standards_guidelines.htm">http://www.cr.nps.gov/hps/tps/standards_guidelines.htm</a>
<i>Secretary's Standards for Rehabilitation</i> (interactive web class)	<a href="http://www.cr.nps.gov/hps/tps/e-rehab/index.htm">http://www.cr.nps.gov/hps/tps/e-rehab/index.htm</a>
Strategies for Protecting Archeological Sites on Private Lands	<a href="http://www.cr.nps.gov/hps/pad/strategies/index.htm">http://www.cr.nps.gov/hps/pad/strategies/index.htm</a>
<b>Natural Resources</b>	
Biodiversity Service Center	<a href="http://www.nature.nps.gov/biology/biologicalinventories/">http://www.nature.nps.gov/biology/biologicalinventories/</a>
Biological assessments	<a href="http://www.fws.gov/Endangered/consultations/sec7_faq.html">http://www.fws.gov/Endangered/consultations/sec7_faq.html</a>
InsideNatural Resources — NP Toolbox (intranet)	<a href="http://www1.nrintra.nps.gov/nrtoolbox/index.cfm">http://www1.nrintra.nps.gov/nrtoolbox/index.cfm</a>
Nature Net — The National Park Services natural resource website	<a href="http://www.nature.nps.gov/">http://www.nature.nps.gov/</a>
NPS Natural Resources (intranet)	<a href="http://www1.nrintra.nps.gov/">http://www1.nrintra.nps.gov/</a>
NPS Nature & Science	<a href="http://www.nature.nps.gov/">http://www.nature.nps.gov/</a>
NPS Nature & Science Inventory & Monitoring	<a href="http://science.nature.nps.gov/im/networks.cfm">http://science.nature.nps.gov/im/networks.cfm</a>
<b>Maps and GIS</b>	
Cultural Resource GIS Facility	<a href="http://www.cr.nps.gov/hdp/crgis/index.htm">www.cr.nps.gov/hdp/crgis/index.htm</a>
Geographic Resource Information Management Interactive — Maps	<a href="http://imgis.nps.gov/interactive_maps.html">http://imgis.nps.gov/interactive_maps.html</a>
Intermountain Parks Interactive Maps	<a href="http://imgis.nps.gov/intermountain_parks.html">http://imgis.nps.gov/intermountain_parks.html</a>
Inventory and Monitoring Program — Intranet Home Page	<a href="http://www1.nrintra.nps.gov/im/">http://www1.nrintra.nps.gov/im/</a>
National Park Service Geographic Information Systems GIS	<a href="http://www.nps.gov/gis">http://www.nps.gov/gis</a>
NPS Data Store	<a href="http://science.nature.nps.gov/nrdata/index.cfm">http://science.nature.nps.gov/nrdata/index.cfm</a>
NPS Digital Image Index	<a href="http://photo.itc.nps.gov/storage/images/">http://photo.itc.nps.gov/storage/images/</a>
NPS GIS Metadata and Data Store	<a href="http://science.nature.nps.gov/nrdata/index.cfm">http://science.nature.nps.gov/nrdata/index.cfm</a>
NPS Graphic Identity Program	<a href="http://www.nps.gov/hfc/products/identity.htm">http://www.nps.gov/hfc/products/identity.htm</a>
Park Maps	<a href="http://maps.nps.gov">http://maps.nps.gov</a>

Website Name / Topic	URL Internet Address
<b>General NPS Sites</b>	
Business with Us — Editing Standards	<a href="http://www.nps.gov/dsc/c_business/c_2_editing.htm">http://www.nps.gov/dsc/c_business/c_2_editing.htm</a>
DSC Workflows	<a href="http://workflow.den.nps.gov/staging/1_Home/home.htm">http://workflow.den.nps.gov/staging/1_Home/home.htm</a>
DSC Workflows*	<a href="http://workflow2.den.nps.gov/index.htm">http://workflow2.den.nps.gov/index.htm</a>
Environmental Quality Division (intranet)	<a href="http://www1.nrintra.nps.gov/eqd/">http://www1.nrintra.nps.gov/eqd/</a>
Facility Management Program Asset Management (intranet)	<a href="http://inside.nps.gov/waso/waso.cfm?lv=4&amp;prg=190">http://inside.nps.gov/waso/waso.cfm?lv=4&amp;prg=190</a>
Inside Intermountain Region (intranet)	<a href="http://inside.nps.gov/regions/region.cfm?rgn=IMR&amp;lv=1">http://inside.nps.gov/regions/region.cfm?rgn=IMR&amp;lv=1</a>
LandsNet — Land Acquisition Information for Parks (intranet)	<a href="http://landsnet.nps.gov/">http://landsnet.nps.gov/</a>
<i>National Parks: Index 2005–2007</i> A complete listing of national park system areas and related areas	<a href="http://www.cr.nps.gov/history/online_books/nps/index2005_07.pdf">http://www.cr.nps.gov/history/online_books/nps/index2005_07.pdf</a>
National Trails System	<a href="http://www.nps.gov/nts/index.htm">http://www.nps.gov/nts/index.htm</a>
Net Gateway to the Midwest Region (intranet)	<a href="http://midwest.nps.gov/">http://midwest.nps.gov/</a>
NPS — Denver Service Center	<a href="http://www.nps.gov/dsc/">http://www.nps.gov/dsc/</a>
NPS Digest — NPS Gateway for Partners and Friends	<a href="http://www.nps.gov/applications/digest/">http://www.nps.gov/applications/digest/</a>
NPS General Public Website	<a href="http://www.nps.gov/">http://www.nps.gov/</a>
NPS Intermountain Region’s Essential Tools for Interpretation	<a href="http://im.den.nps.gov/den_interptools.cfm">http://im.den.nps.gov/den_interptools.cfm</a>
NPS Overview-	<a href="http://www.nps.gov/pub_aff/refdesk/NPS_Overview.pdf">http://www.nps.gov/pub_aff/refdesk/NPS_Overview.pdf</a>
NPS Public Use Statistics	<a href="http://www2.nature.nps.gov/stats/">http://www2.nature.nps.gov/stats/</a>
NPS Sustainability News Home	<a href="http://www.nature.nps.gov/sustainabilitynews/index.htm">http://www.nature.nps.gov/sustainabilitynews/index.htm</a>
NPS Technical Information Center (DSC)	<a href="http://etic.nps.gov">http://etic.nps.gov</a>
NPS Wilderness	<a href="http://wilderness.nps.gov/">http://wilderness.nps.gov/</a>
Search DSC eTIC (intranet)	<a href="http://etic.nps.gov">http://etic.nps.gov</a>
Wild and Scenic Rivers	<a href="http://www.nps.gov/rivers/">http://www.nps.gov/rivers/</a>
<b>NEPA and Federal Register</b>	
Federal Register Status Sheet (status of notices in WASO)	<a href="http://www.nps.gov/policy/DOrders/FRStatuschart.pdf">http://www.nps.gov/policy/DOrders/FRStatuschart.pdf</a>
Intermountain Region Instructions for Processing Federal Register NOAs for draft and final EISs (8/06)*	<a href="http://inside.nps.gov/regions/custommenu.cfm?lv=3&amp;rgn=1025&amp;id=5684">http://inside.nps.gov/regions/custommenu.cfm?lv=3&amp;rgn=1025&amp;id=5684</a>
<b>Planning and Policy</b>	
Civic Engagement National Park Service	<a href="http://www.nps.gov/civic/">http://www.nps.gov/civic/</a>
Facility Planning Model, Construction Program Management Division (intranet)	<a href="http://construction.den.nps.gov/prplanning.cfm">http://construction.den.nps.gov/prplanning.cfm</a>
Impairment	<a href="http://www.nps.gov/protect/index.htm">http://www.nps.gov/protect/index.htm</a>
Intermountain Region Planning and Environmental Quality Tools (intranet)	<a href="http://inside.nps.gov/regions/orglist.cfm?lv=2&amp;rgn=274">http://inside.nps.gov/regions/orglist.cfm?lv=2&amp;rgn=274</a>
NPS Park Planning Guidance (intranet)	<a href="http://inside.nps.gov/waso/custommenu.cfm?lv=2&amp;prg=50&amp;id=3317">http://inside.nps.gov/waso/custommenu.cfm?lv=2&amp;prg=50&amp;id=3317</a>
NPS Policy Place (Reference Desk )	<a href="http://www.nps.gov/refdesk/policies.html">http://www.nps.gov/refdesk/policies.html</a> OR <a href="http://www.nps.gov/refdesk/">http://www.nps.gov/refdesk/</a>
NPS User Capacity Home	<a href="http://usercapacity.nps.gov/">http://usercapacity.nps.gov/</a>

**TABLE L.23: NON-NPS WEBSITES OF INTEREST**

Website Name / Topic	URL Internet Address
<b>Cultural Resources</b>	
Advisory Council on Historic Preservation (includes NHPA sec. 106 regulations and guidance)	<a href="http://www.achp.gov">http://www.achp.gov</a>
Cultural Resource Network	<a href="http://www.eculturalresources.com">http://www.eculturalresources.com</a>
DOI Responsibilities for Indian Trust Resources	<a href="http://elips.doi.gov/elips/release/3049.htm">http://elips.doi.gov/elips/release/3049.htm</a>

<b>Website Name / Topic</b>	<b>URL Internet Address</b>
DOI Responsibilities for Protecting/Accommodating Access to Indian Sacred Sites	<a href="http://elips.doi.gov/elips/release/3214.htm">http://elips.doi.gov/elips/release/3214.htm</a>
The Preservation Learning Portal	<a href="http://www.historicpreservation.gov">http://www.historicpreservation.gov</a>
Library of Congress, American Folklife Center	<a href="http://www.loc.gov/folklife/">http://www.loc.gov/folklife/</a>
NARA — U.S. National Archives and Records Administration	<a href="http://www.archives.gov/">http://www.archives.gov/</a>
National Council for the Traditional Arts	<a href="http://www.ncta.net">http://www.ncta.net</a>
Native American consultation and section 106 of the NHPA (intranet)	<a href="http://www.achp.gov/regs-tribes.html">http://www.achp.gov/regs-tribes.html</a>
State Historic Preservation Officers directory	<a href="http://www.ncshpo.org">http://www.ncshpo.org</a>
<b>Natural Resources</b>	
Biodiversity Data (Global Biodiversity Information Facility)	<a href="http://www.europe.gbif.net/portal/index.jsp">http://www.europe.gbif.net/portal/index.jsp</a>
Earth Explorer	<a href="http://edcsns17.cr.usgs.gov/EarthExplorer/">http://edcsns17.cr.usgs.gov/EarthExplorer/</a>
Effects of Recreation on Wildlife	<a href="http://nris.state.mt.us/apps/wildlifebib/wildlifebib.htm">http://nris.state.mt.us/apps/wildlifebib/wildlifebib.htm</a>
eNature.com	<a href="http://www.enature.com/home/">http://www.enature.com/home/</a>
National Biological Information Infrastructure	<a href="http://www.nbio.gov/index.html">http://www.nbio.gov/index.html</a>
Natural Resource Conservation Service (directory of state offices)	<a href="http://www.nrcs.usda.gov/about/organization/regions.html">http://www.nrcs.usda.gov/about/organization/regions.html</a>
Nature Guides	<a href="http://www.enature.com/parks/natureguides.asp">http://www.enature.com/parks/natureguides.asp</a>
NatureServe Explorer (An Online Encyclopedia of Life, Office of Environmental Policy and Compliance)	<a href="http://www.natureserve.org/explorer/index.htm">http://www.natureserve.org/explorer/index.htm</a>
Plants National Database	<a href="http://plants.usda.gov/">http://plants.usda.gov/</a>
U.S. Fish and Wildlife Service	<a href="http://www.fws.gov">www.fws.gov</a>
U.S. Fish & Wildlife Service, Endangered Species Program	<a href="http://www.fws.gov/endangered/">http://www.fws.gov/endangered/</a>
U.S. Geological Survey Biological Resources Division	<a href="http://biology.usgs.gov">http://biology.usgs.gov</a>
U.S. Geological Survey Geologic Hazards Program	<a href="http://geohazards.cr.usgs.gov/">http://geohazards.cr.usgs.gov/</a>
World Wildlife Finder (World Wildlife Fund)	<a href="http://worldwildlife.org/wildfinder/">http://worldwildlife.org/wildfinder/</a>
<b>General References</b>	
Arthur Carhart National Wilderness Training Center	<a href="http://carhart.wilderness.net/">http://carhart.wilderness.net/</a>
The EnviroLink Network (provides access to thousands of online environmental resources)	<a href="http://www.envirolink.org/">http://www.envirolink.org/</a>
Environmental Glossary, Abbreviations and Acronyms (US EPA)	<a href="http://www.epa.gov/OCEPAterms/aterms.html">http://www.epa.gov/OCEPAterms/aterms.html</a>
Environmental Organization Web Directory	<a href="http://www.webdirectory.com/">http://www.webdirectory.com/</a>
EPA - Window to My Environment	<a href="http://www.epa.gov/enviro/wme/">http://www.epa.gov/enviro/wme/</a>
EPA Where you Live	<a href="http://www.epa.gov/epahome/wherelive.htm">http://www.epa.gov/epahome/wherelive.htm</a>
FEMA MSC Store - Welcome (floodplain maps)	<a href="http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1">http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&amp;catalogId=10001&amp;langId=-1</a>
FirstGov.gov The U.S. Government's Official Web Portal	<a href="http://www.firstgov.gov/">http://www.firstgov.gov/</a>
Google U.S. Government Search	<a href="http://www.google.com/ig/usgov">http://www.google.com/ig/usgov</a>
The Library of Congress	<a href="http://thomas.loc.gov/">http://thomas.loc.gov/</a>
Natural Resource Laws (intranet)	<a href="http://www.fws.gov/laws/lawsdigest/reslaws.html">http://www.fws.gov/laws/lawsdigest/reslaws.html</a>
Public Participation Training (DOI-Media Mosaic Library)	<a href="http://www.vodium.com/MediapodLibrary/index.asp?library=doi_publicpart&amp;SessionArgs=0A1U00000000100000111">http://www.vodium.com/MediapodLibrary/index.asp?library=doi_publicpart&amp;SessionArgs=0A1U00000000100000111</a>
State Census Data Centers	<a href="http://www.census.gov/sdc">http://www.census.gov/sdc</a>
U.S. Census Bureau	<a href="http://www.census.gov">http://www.census.gov</a>
U.S. Department of the Interior Library	<a href="http://heinonline.org/HOL/Welcome">http://heinonline.org/HOL/Welcome</a>
Wild and Scenic Rivers	<a href="http://www.rivers.gov">http://www.rivers.gov</a>
Wilderness	<a href="http://www.wilderness.net/">http://www.wilderness.net/</a>
<b>Maps and GIS</b>	
Federal Emergency Management Agency (FEMA) Floodplain Hazard Maps	<a href="http://www.fema.gov/plan/prevent/fhm/fq_main.shtm">http://www.fema.gov/plan/prevent/fhm/fq_main.shtm</a> <a href="http://store.msc.fema.gov">http://store.msc.fema.gov</a>

<b>Website Name / Topic</b>	<b>URL Internet Address</b>
Google Earth (NOTE: A download from Google is needed to use this site)	<a href="http://earth.google.com/">http://earth.google.com/</a>
U.S. Fish and Wildlife Service GIS	<a href="http://www.fws.gov/data/">http://www.fws.gov/data/</a>
U.S. Fish and Wildlife Service National Wetlands Inventory Homepage	<a href="http://www.fws.gov/nwi/">http://www.fws.gov/nwi/</a>
U.S. Geography (National Map Viewer)	<a href="http://nationalmap.gov/nmjump.html">http://nationalmap.gov/nmjump.html</a>
<b>NEPA and Federal Register</b>	
2006 Federal Register Contents	<a href="http://www.access.gpo.gov/su_docs/fedreg/frcont06.html">http://www.access.gpo.gov/su_docs/fedreg/frcont06.html</a>
CEQ Regulations For Implementing NEPA	<a href="http://ceq.eh.doe.gov/NEPA/regs/ceq/toc_ceq.htm">http://ceq.eh.doe.gov/NEPA/regs/ceq/toc_ceq.htm</a>
CEQ NEPA Guidance	<a href="http://ceq.eh.doe.gov/nepa/regs/guidance.html">http://ceq.eh.doe.gov/nepa/regs/guidance.html</a>
The Code of Federal Regulations	<a href="http://www.gpoaccess.gov/cfr/index.html">http://www.gpoaccess.gov/cfr/index.html</a>
Council on Environmental Quality	<a href="http://www.whitehouse.gov/ceq/">http://www.whitehouse.gov/ceq/</a>
DOI Office of Environmental Policy & Compliance (OEPC)	<a href="http://www.doi.gov/oepec/index.html">http://www.doi.gov/oepec/index.html</a>
EPA Federal Register Environmental Documents	<a href="http://www.epa.gov/fedrgstr/">http://www.epa.gov/fedrgstr/</a>
EPA Federal Register FR Years	<a href="http://www.epa.gov/fedrgstr/EPA-IMPACT/">http://www.epa.gov/fedrgstr/EPA-IMPACT/</a>
Federal Register Main Page	<a href="http://www.gpoaccess.gov/fr/index.html">http://www.gpoaccess.gov/fr/index.html</a>
NEPANet	<a href="http://ceq.eh.doe.gov/nepa/nepanet.htm">http://ceq.eh.doe.gov/nepa/nepanet.htm</a>
Office of Environmental Policy and Compliance (DOI)	<a href="http://www.doi.gov/oepec/nrm.html">http://www.doi.gov/oepec/nrm.html</a>

Commercial scientific bibliographic search services, such as NISC Wildlife Worldwide and NISC Agriculture & Forestry, are available free of charge to NPS employees.