America’s Inventory of Parks and Protected Areas

New and improved!

National Trails System GIS Network

U.S. Department of the Interior
U.S. Geological Survey

October 16, 2018
What is PAD-US?
First, what do we all want?

- Find any U.S. park or protected area
- All in one dataset
- Designed to serve many user needs

This is the PAD-US vision
What do we all want to include?    Everything.
What is a “protected area”?

**Broad meaning:**

- Natural, Rec., Historic, Cultural
- Includes public land + nonprofit areas
- Public fee, conservation easements, management designations, marine
- Small to large
- Public parks and other protected
PAD-US is geospatial (GIS) data

- 9.3 billion acres*
- 360,000+ units
- 18,000+ agencies
- Published by USGS

*total includes ownership and overlapping designations, easements, proclamation boundaries, plus marine areas
PAD-US is managed by USGS

- Part of the National Biogeographic Map
- Required for USGS biodiversity analysis mission
- But also built for general, diverse uses
- Broad org commitment to PAD-US

https://maps.usgs.gov/biogeography/
PAD-US is boundaries

Easements (overlays private or public)
Fee Ownerships
Marine Protected Areas
Proclamation Boundaries (administrative)
Designations
Many users and uses

- Recreation planning
- Wildfire management
- Energy facility siting
- Biodiversity conservation
- Public health
- Emergency management
- Land use planning
- And more . . .
Collaboration builds PAD-US

States

Federal

Nonprofits
For PAD-US announcements and updates, contact Julie Prior-Magee
jpmagee@usgs.gov
What’s new in 2?

PAD-US 2.0

(September 2018)
Federal updates
Steward reports

Protected Areas Database of the United States (PAD-US) — Data Steward Report

FEDERAL
Forest Service

Steward program description: Established in 1905, the Forest Service is an agency of the U.S. Department of Agriculture and manages national forests and grasslands which encompass 193 million acres of land in almost 300 separate units. The Service's Automated Lands Program (ALP) provides data on these lands to PAD-US.

Steward Information
Program Name: Washington Office-Lands and Realty Management-Automated Lands Program
Organization Status: Active
Program Status: Active
Website: https://www.fs.fed.us/
Other Page or Portal: https://www.fs.fed.us/land/staff/index.shtml

Primary Contact
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Organization: Forest Service
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Secondary Contact
Holly Martin, Data Analyst
Organization: Forest Service
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Current Completeness of Agency Data: 99%

Notes: Fee parcel ownership, easement interest and designations (congressional and executive) for all USFS lands available in PAD-US format from national data steward. Active participation in FGDC Federal Lands Working Group. Improved administrative designations (complete RINs, national grazing/mining allotments, etc.) are needed to better represent biodiversity protection and/or recreation opportunities on multiple use lands.

Updates Contributed to PAD-US

<table>
<thead>
<tr>
<th>PAD-US Version</th>
<th>Other Designation</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD-US 2.0</td>
<td>Other Designated</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Easements</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Spec. Interest Area</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Wilderness</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Wild/Scenic Rivers</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Roadless Areas</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Withdrawal Areas</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>NFS Land Units</td>
<td>September 2017</td>
</tr>
<tr>
<td>PAD-US 2.0</td>
<td>Surface Ownership</td>
<td>September 2017</td>
</tr>
</tbody>
</table>

Online and PDF download

www.protectedlands.net/data-stewards
Over 30 state updates

12 from state steward network:

- California
- Georgia
- Iowa
- Idaho
- Minnesota
- Missouri
- New Jersey
- New York
- Oregon
- Tennessee
- Virginia
- West Virginia
Nonprofit databases integrated


TNC Fee Lands – Lands owned/managed by The Nature Conservancy

TPL ParkServe – Coming next
http://www.protectedlands.net/data-stewards/
New easements from NCED

National Conservation Easement Database (NGO-led)

Nearly 24 million acres in PAD-US
A better database – new structure

- Improve management of overlapping data
- Easier mapping and analysis
A better database – improved geometry
## Detailed Excel file with pre-calculated statistics

For more information, visit [https://gapanalysis.usgs.gov/padus/data/statistics/](https://gapanalysis.usgs.gov/padus/data/statistics/)
Web maps, reports – updates coming soon!
New online help system – coming soon!

Introduction to PAD-US

Overview of PAD-US

The USGS Protected Areas Database of the U.S. (PAD-US) is the official GIS-based national inventory of park and protected area boundaries within the U.S.

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vestibulum sit amet ligula eleifend, tristique nisl vitae, maximus metus.
- Sed aliquet turpis sit amet lectus feugiat porttitor.
- Morbi dictum nunc sit amet aliquet faucibus.
- Sed maximus nisi eget facilisis laoreet.
- Sed id orci pellentesque, elementum nulla ac. sodales dolor.

What’s new in PAD-US version 2.0

PAD-US version 2 was published in December 2017 and includes:

- Federal lands - updated for all agencies to most current federal land data
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- State updates - updated data for (list states.)
- NCED updates - (as of date)
Inventory completeness at 2.0

Federal

State, regional, local, NGO

0% 100%
Next – all urban parks!
Get the data!

PAD-US
THE USGS PROTECTED AREAS DATABASE OF THE UNITED STATES
Get PAD-US data

- **Data downloads**
  - Protected Areas Database of the United States (PAD-US) Data Download
  - Download the Protected Areas Database (PAD-US)
    - Data are available for download nationally, by region, USGS, or State / territory boundary; use the radio buttons below to select your desired file type — either (ESRI ArcGIS 10) Geodatabase or Shapefile. Each includes a Readme.txt file that provides a description of the areas contained with the data downloaded.
    - Select Desired File Type
      - ArcGIS 10 Geodatabase
      - Shapefile
    - Download PAD-US Nationally
      - Select
    - Download PAD-US by Region
      - Select
    - Download PAD-US by Landscape Conservation Cooperative Unit
      - Select
    - Download PAD-US by State / Territory
      - Select
  - Data are also available as national KML files. This .kml file contains 23 symbology layers. Download on arcmap.

- **Online mappers**
  - Web services

- **Downloadable print map files**
  - Protected Areas (PAD-US) — Version 1.4 web services
    - All Protected Areas — Green
    - Terrestrial Protected Areas — Gray
    - Terrestrial Protected Areas — Green
    - Watersheds
    - Categories — Fee, Easement, Other, MPA
    - Categories — Fee, Easement, Other
    - Public Open Space
    - Public and Private Open Space
    - Public Access
    - General Agency Level
    - Mid Agency Level
    - Fine Agency Level
    - Federal Management Agencies
    - Federal, Tribal, Other
Enhancing data for protected areas in the U.S.

We are creating a spatially explicit inventory that lets any user - from the general public to professional land managers - know exactly what lands are protected anywhere in the United States and allows them to readily use this inventory in conservation, land management, planning, recreation and other uses.

Learn more: Download PAD-US Factsheet

The Protected Areas Database of the United States (PAD-US) is the national inventory of America's parks and other protected lands, and is published by the USGS Gap Analysis Program. ProtectedLands.net showcases uses of PAD-US and provides additional information about the data.
Read about PAD-US vision

www.protectedlands.net/vision
Federal Lands Working Group - an interagency success story
Complete  Accurate  Standardized  Annual

**aggregation** of federally owned lands and waters

with management designations to fulfill **common agency needs**

Aiming for: full parcel-based inventory + automated updates
Federal Lands Working Group (FLWG)

14 agencies collaborating to develop federal parcel ownership database

https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup/
FLWG drives data quality

- **Aggregated** data sets are only as good as inputs
- Federal lands in PAD-US come directly from agencies
- FLWG is THE coordinating framework for federal lands and waters
- Each agency has a data steward or team – need support to ensure the best inputs to PAD-US and agency use
Find public land recreation with PAD-US

Bob Ratcliffe
Chief, Conservation and Outdoor Recreation, NPS
Find recreation with PAD-US

Federal Recreation Council

- **Coordination** for land/water managing agencies

- Support **outreach** for tourism, improve **management** for recreation
Find recreation with PAD-US

1980s map of federal recreation – time for an update! (with better data, too…)
Find (federal) recreation with PAD-US

New poster map/brochure w PAD-US 2.0!
Find recreation with PAD-US

- **How to get** the Federal Recreation brochure?
  - http://www.protectedlands.net/uses/

- **Next steps:**
  - PAD-US goal – have full inventory by 2020
  - Full inventory will be an asset for Recreation.gov
FLWG drives data quality – Guidance to basemap providers
FLWG Benefits Summary

- Most questions start with **where**?
- Develops **foundational** dataset – PAD-US
- Fosters broad **cooperation** – DOI, Ag, Commerce, DOD, etc.
- Facilitates **vision** across admin boundaries
- Provides **authoritative** data
- Supports vertical **integration** – no gaps and overlaps
- Helps produce **scale** independent product
DOI Seminar – FLWG Panel

- Hear more stories from the FLWG
- Includes info re agency source data development
- Department of the Interior Office of Policy Analysis Seminar:
  - https://livestream.com/accounts/3723018/events/8246532/player?enableInfoAndActivity=true&defaultDrawer=&autoPlay=true&mute=false
How you can help build PAD-US

- **Support** agency data stewards, push to develop data quality
  - FLWG making great progress for federal data
  - Next step - help more states do better (State Lands Working Group, etc.)

- **Share** PAD-US 2.0 release when USGS announcement is available

- Let us know **how you use** the data (or improvements needed)
Contacts

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Your turn!

PAD-US
THE USGS PROTECTED AREAS DATABASE OF THE UNITED STATES