

America's Inventory of Parks and Protected Areas



New and improved!

National Trails System GIS Network

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





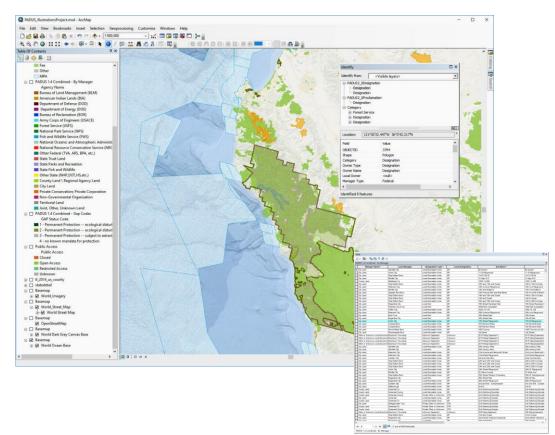




PAD-US is geospatial (GIS) data

- 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/

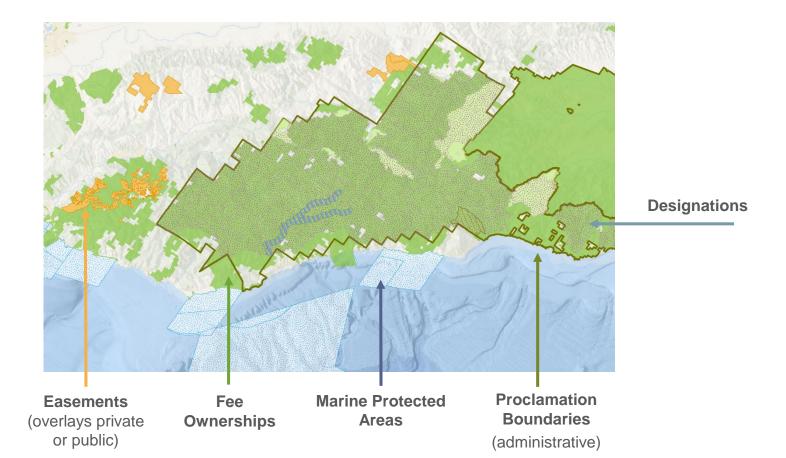




Protected Areas Database of the U.S. (PAD-US) - Land Management



PAD-US is boundaries





Many users and uses

"National Park Service" "Federal" **Owner and Manager Agency Name Agency Type** "State Parks and Rec" "State Park" "Local Gov" **Designation Type Date of Establishment** Fee or Easement "National Wildlife Refuge" "National Forest" **Unit Name** Acres **Biodiversity protection status GIS Source** Source data or standardized **Public Access** WDPA Code State Name

Open, Closed, Restricted

- ✓ Recreation planning
- ✓ Wildfire management
- ✓ Energy facility siting
- **✓** Biodiversity conservation
- ✓ Public health
- ✓ Emergency management
- ✓ Land use planning
- ✓ And more . . .

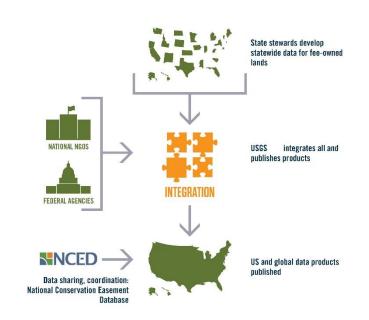
Collaboration builds PAD-US

How PAD-US is Built

States

Federal

Nonprofits





PAD-US 2.0 Publication Status



For PAD-US announcements and updates, **contact**Julie Prior-Magee

jpmagee@usgs.gov



What's new in 2?

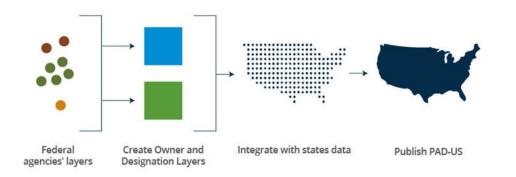
PAD-US 2.0

(September 2018)



Federal updates







Steward reports

ESTIMATED FEDERAL LANI

Individual federal agency estimate including fee parcels, easement in

National Park Service
Forest Service
Fish and Wildlife Service
Bureau of Land Management
Army Corps of Engineers
Department of Defense
Bureau of Reclamation

Online and PDF c

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/

Data Download URL:

https://data.fs.usda.gov/geodata/edw/datasets.php?

xmlKeyword=PADUS

Other Page or Portal: https://www.fs.fed.us/land/staff/index.shtml

Primary Contact

Troy Warburton, ALP Program Manager Organization: Forest Service troy 801-975-3433

Secondary Contact

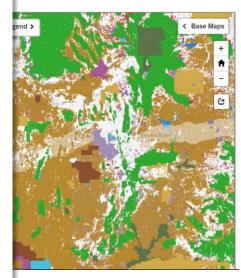
Holly Martin, Data Analyst Organization: Forest Service hlmartin@fs.fed.us / 503-729-6676 This report is in support of PAD-US, the Protected Areas
Database of the US, published by USGS. Information on PAD-U
data stewards can be found at the www.ProtectedLands.net
PAD-US companion website. More information about PAD-US
available on the USGS PADUS website:
https://gapanalysis.usgs.gov/padus

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 RNAs, 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

opuates some	Dutou to 1715 CC	
PAD-US 2.0	Other Designated	September 2017
PAD-US 2.0	Easements	September 2017
PAD-US 2.0	Spec. Interest Area	September 2017
PAD-US 2.0	Wilderness	September 2017
PAD-US 2.0	Wild/Scenic Rivers	September 2017
PAD-US 2.0	Roadless Areas	September 2017
PAD-US 2.0	Withdrawal Areas	September 2017
PAD-US 2.0	NFS Land Units	September 2017
PAD-US 2.0	Surface Ownership	September 2017



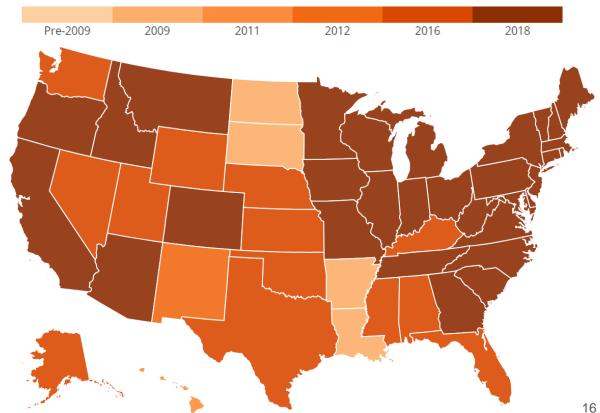


Over 30 state updates

12 from state steward network:

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







Nonprofit databases integrated

TPL Conservation Almanac – Major updates in 9 states: Arizona, Colorado, Georgia, Illinois, Montana, North Carolina, New Jersey, Oregon & South Carolina.

DU Conservation and Recreation Lands (CARL) Database – Improvements to 5 states: Illinois, Indiana, Michigan, Ohio & Wisconsin.

TNC Secured Areas – Full data replacement in 9 eastern states + D.C.: Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, Pennsylvania, Rhode Island, & Vermont.

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

TPL ParkServe – Coming next



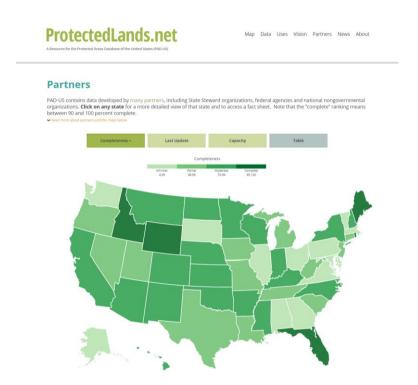


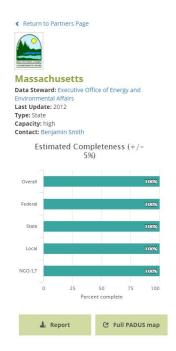


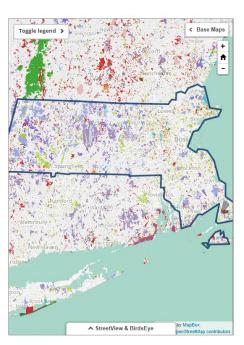


State details

http://www.protectedlands.net/data-stewards/







New easements from NCED

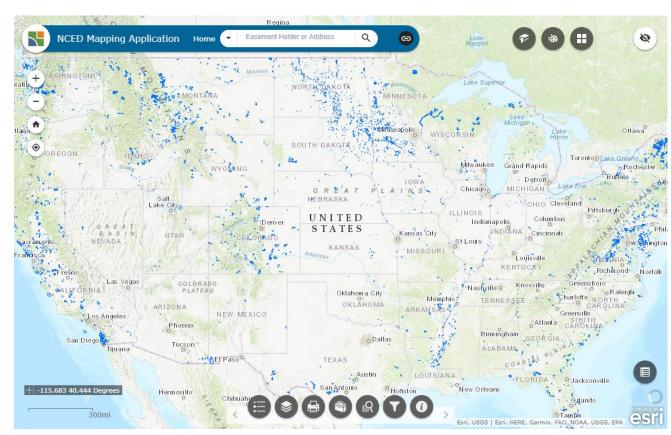
National

Conservation

Easement

Database

(NGO-led)

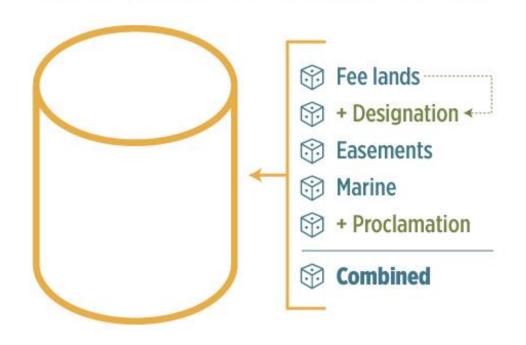




A better database – new structure

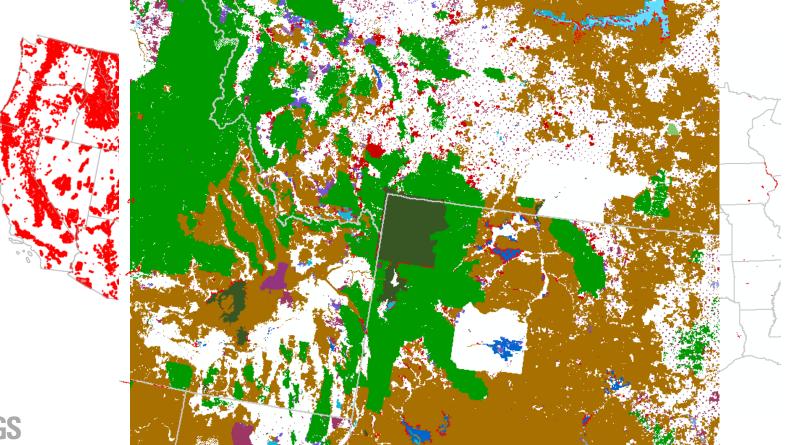
- Improve management of overlapping data
- Easier mapping and analysis

A Better Geodatabase for PAD-US





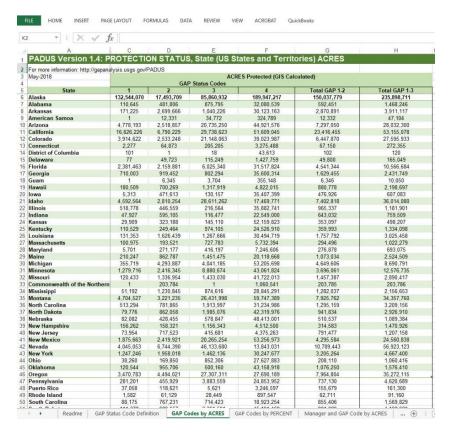
A better database – improved geometry





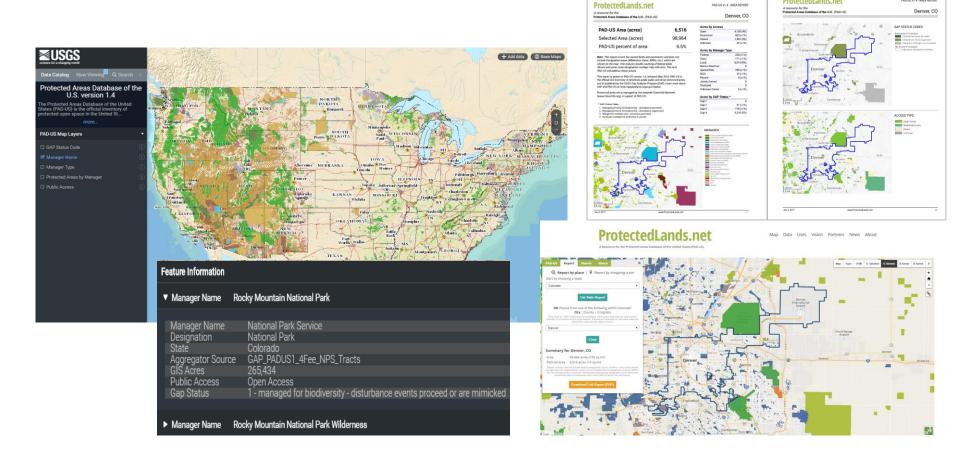
Downloadable statistics

Detailed Excel file
with pre-calculated
statistics





Web maps, reports – updates coming soon!



ProtectedLands.net

PAD-US v1.4 - AREA REPORT

New online help system – coming soon!

ProtectedLands.net

A Resource for the Protected Areas Database of the United States (PAD-US)



Introduction to PAD-US

Overview of PAD-US | 0 1

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.

Map Data Uses Vision Partners News About

- 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
- Federal lands updated for all agencies to most current federal land data
- 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!

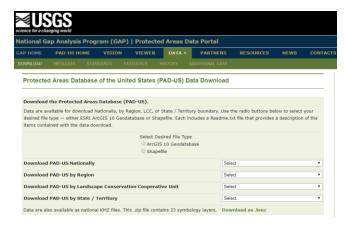


Get the data!

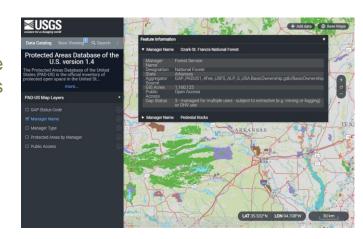


Get PAD-US data

Data downloads



Online mappers



Web services

Protected Areas (PAD-US) - Version 1.4 web services

- All Protected Areas Green
- Terrestrial Protected Areas Gray
- Terrestrial Protected Areas Green
- Easements
- 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

Downloadable print map files





poster-sized (.pdf) for print/web (.jpg)

■ Federal Managers



poster-sized (.pdf) for print/web (.jpg)

Protection Status:



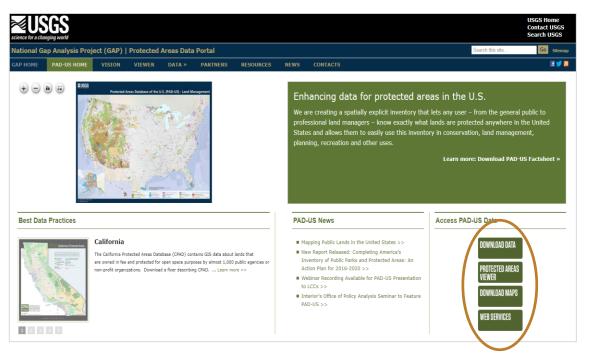
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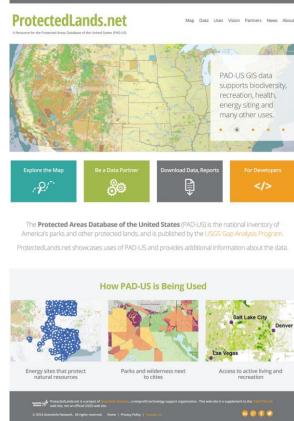


More Info

https://gapanalysis.usgs.gov/padus/



www.protectedlands.net





Read about PAD-US vision



1. STARTING POINTS — RATIONALES AND USER NEEDS

Overview of Data Needed Why We Have Public Parks and Other Protected Areas The Value of Having a Complete Inventory What User Needs Should the Inventory Support?

2. ABOUT PUBLIC PARKS AND PROTECTED AREAS DATA

Concepts and Terms About Spatial Inventories Structure of a Parks and Protected Areas Inventory Who's Who

3. THE PROTECTED AREAS DATABASE OF THE U.S. (PAD-US)

The Status of PAD-US
The State of PAD-US by State
How PAD-US Is Developed
The Structure of PAD-US
Data Related to PAD-US
PAD-US: What More Is Needed?

4. RECOMMENDED PRACTICES

General Principles Data Framework Management System for Data

5. ACTION PLAN - Tasks, Funding and Sources

Federal Lands Working Group - an interagency success story



PAD-US Federal Lands VISION



Complete Accurate Standardized Annual

aggregation of federally owned lands and waters

with management designations to fulfill common agency needs





Federal Lands Working Group (FLWG)

14 agencies collaborating to develop federal parcel ownership database

https://communities.geoplatform.gov/ngda-govunits/federal-lands-workgroup/

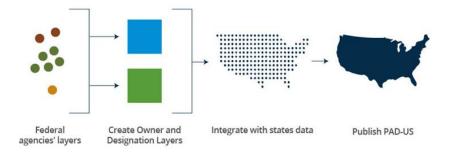






FLWG drives data quality

- 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







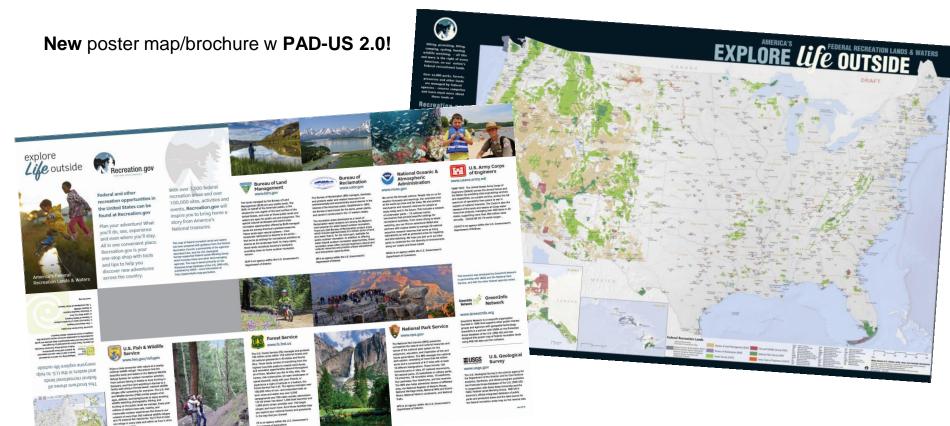
Find recreation with PAD-US

1980s map of federal recreation – time for an **update!** (with better data, too...)





Find (federal) recreation with PAD-US

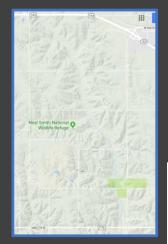


Find recreation with PAD-US

- 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?e nableInfoAndActivity=true&defaultDrawer=&autoPlay=true&mute=f alse



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 annoucement is available
- Let us know how you use the data (or improvements needed)



Contacts

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Discussion

Your turn!

