

**FY 2006-2007
Annual Summary Report of Activities**

Pennsylvania Spatial Data Access

The Public Geospatial Data Clearinghouse for the Commonwealth of Pennsylvania



Submitted by

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Penn State Institute of Energy and the Environment

The Pennsylvania State University

September 2007

Introduction

Pennsylvania Spatial Data Access (PASDA), the public geospatial data clearinghouse for the Commonwealth of Pennsylvania marked its tenth year in 2006. PASDA, which has grown from a small website offering 35 data sets in 1996 to the expansive user centered data clearinghouse that it is today, has become a staple of the GIS community in Pennsylvania. Users come from a broad spectrum of organizations and backgrounds, from teachers and citizens to businesses and government agencies, PASDA provides free access to data, applications, and customization tools to meet the needs of every user.

PASDA was developed as a service to the citizens, governments, and businesses of the Commonwealth. PASDA is a cooperative project of the Governor's Office of Administration, Office for Information Technology, Geospatial Technologies Office and Penn State Institutes for Energy and the Environment of the Pennsylvania State University. Funding and support is provided by the Pennsylvania Office for Information Technology, Geospatial Technologies Office. PASDA serves as the Commonwealth's node on the National Spatial Data Infrastructure (NSDI), Geospatial One Stop, and the National Biological Information Infrastructure.

About PASDA

Data

The data made available through PASDA is provided by our data partners to encourage the widespread sharing of geospatial data, eliminate the creation of redundant data sets, and to further build an inventory (through the development and hosting of metadata) of available data relevant to the Commonwealth. PASDA serves as a resource for locating data throughout the Commonwealth through its data storage, Internet Map Services, applications, and metadata/documentation efforts. The data on PASDA is provided by federal, state, local and regional government agencies, non-profit organizations, and academic institutions throughout the region.

Staff

PASDA is a cooperative project developed with funding from the Geospatial Technologies Office to provide the greatest possible benefit to the GIS stakeholders in the Commonwealth. The management of PASDA is the responsibility of the PASDA Director at Penn State Institutes of Energy and the Environment (PSIEE). The PASDA staff includes:

- Maurie Caitlin Kelly, Director
- Ryan E. Baxter, Information Technology Coordinator
- James F. Spayd, Data Systems and Metadata Coordinator
- Scott B. Dane, Data Manager (PASDA/PAMAP) and Outreach
- Wayne Myers, Co-Director of the Office for Remote Sensing and Spatial Information Resources

Note: In addition, the PASDA staff would like to gratefully acknowledge the continued assistance and support of Chris Pfeiffer, Computer Systems Network Administrator for PSIEE. Although Chris is no longer officially a PASDA staff member, his continued dedication to the project has proved invaluable.

Services

The services available through PASDA include:

- **Data Storage and Access**

PASDA staff work directly with non-profit organizations, government agencies, academic institutions, and other data stakeholders to identify, document, and provide access to data and metadata. There is no fee to store or provide access to data through PASDA.

- **Metadata Development and Training**

PASDA will create FGDC standard metadata free of charge for any agency, organization, or data stakeholder. The metadata will also be hosted by PASDA for the purposes of developing the state data inventory. PASDA staff provide free metadata training and training in the use of PASDA for individual organizations and groups. PASDA offers formal training on request to groups and organizations wishing to share data.

- **Outreach and User Assistance**

PASDA works with agencies, non-profit organizations such as watershed groups and K-12 schools to promote the knowledge and use of GIS. PASDA develops lessons, tutorials, and guidelines for new GIS users. PASDA staff offer seminars and presentations at meetings, conferences, and schools. PASDA is committed to providing timely user assistance with the PASDA website and the data available through PASDA.

Summary of Major Activities & Accomplishments

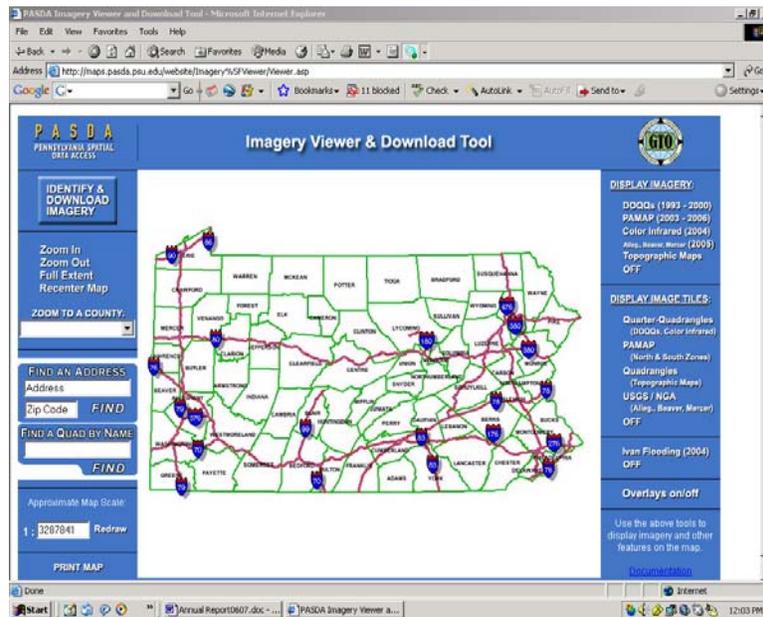
A summary of activities for this year includes a dramatic increase in both the available data and services of PASDA. Though the size of the staff at PASDA has diminished, remaining staff have assumed additional responsibilities to ensure we continue to serve our users and the Commonwealth with the same degree of quality and effectiveness demonstrated in previous years. The activities and progress of PASDA throughout the 2006-2007 fiscal year focused on four major areas: data and metadata development; systems architecture and applications development; emergency response support; and outreach in the form of meetings, conferences, and presentations.

However, a number of initiatives deserve specific mention in this report.

Imagery Viewer and Download Utility

The Imagery Viewer and Download Utility was initially created as a mechanism to coordinate access to all raster data available through PASDA. As the number and diversity of imagery and raster based data increased dramatically in the previous two years, it was becoming more difficult for users to identify and differentiate between years and types of data. As PAMAP data arrived, it was determined that users would be frustrated with a lack of easy access and identification of the tiles they needed for download. Initially, these tiles were only relevant to a user who had previously downloaded the tile index and opened it within a GIS. PASDA's information technology coordinator, Ryan Baxter, initiated the development and decided to outline the functionality and potential utility of developing a tool to provide easy and coordinated access to these resources.

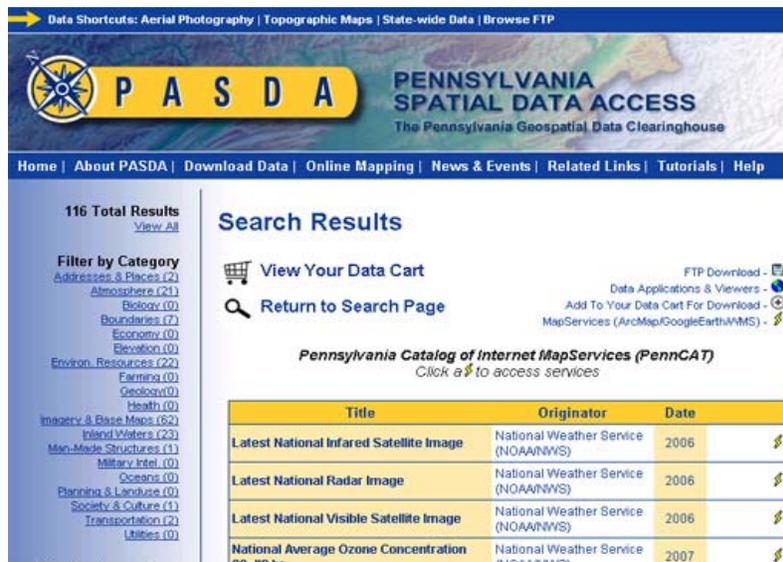
The goals were: to have a single interface for all imagery/raster data; to allow searching by county, quad, and address as well as having the ability to click on a place in the map to identify; and to offer all potential download options and formats (http, ftp, Mr. Sid, GeoTiff etc). Although additional functionality was added at a later date, once these goals were met and tested, the viewer became operational in Summer 2006.



The Imagery Viewer has become the most used tool in the PASDA suite of services. In FY 2006-2007 the Viewer received over 2 million hits and was used to “create maps” (meaning users reached the final map/download stage of their search) 745,279 times.

Map Services

In FY 2005-2006 PASDA had initiated development of Map Services. These services were developed in an effort to address the growing interest in accessing and integrating data into desktop GIS without the need to download vast amounts of data. The first services were developed during that fiscal year using vector data such as roads and streams. Also during that year, a map service for the DOQQs was developed. The development of a map service for each incoming data set became part of the processing of PASDA data. Data was acquired, metadata created, loaded to FTP and the database, integrated into existing applications (such as the PA Atlas), and then a map service created (with the exception of specialized data sets). In FY 2006-2007 the success of these services and the mainstreaming of this process into the overall data acquisition procedures allowed for the expansion and enhancement of map services in the PASDA architecture. The PAMAP data was loaded in the database and added to the suite of map services, as were the NAIP and DRGs. In addition, a collaborative effort with PSU EMS provided PASDA with data from the National Weather Service in map service ready format.



The screenshot shows the PASDA website interface. At the top, there is a navigation bar with links for "Data Shortcuts: Aerial Photography | Topographic Maps | State-wide Data | Browse FTP". Below this is the PASDA logo and the text "PENNSYLVANIA SPATIAL DATA ACCESS The Pennsylvania Geospatial Data Clearinghouse". A secondary navigation bar includes "Home | About PASDA | Download Data | Online Mapping | News & Events | Related Links | Tutorials | Help".

The main content area displays "116 Total Results" and a "Filter by Category" list on the left. The "Search Results" section features a "View Your Data Cart" button and a "Return to Search Page" button. Below these is the "Pennsylvania Catalog of Internet MapServices (PennCAT)" with a sub-note "Click a \$ to access services".

Title	Originator	Date	
Latest National Infrared Satellite Image	National Weather Service (NOAA/NWS)	2006	\$
Latest National Radar Image	National Weather Service (NOAA/NWS)	2006	\$
Latest National Visible Satellite Image	National Weather Service (NOAA/NWS)	2006	\$
National Average Ozone Concentration	National Weather Service (NOAA/NWS)	2007	\$

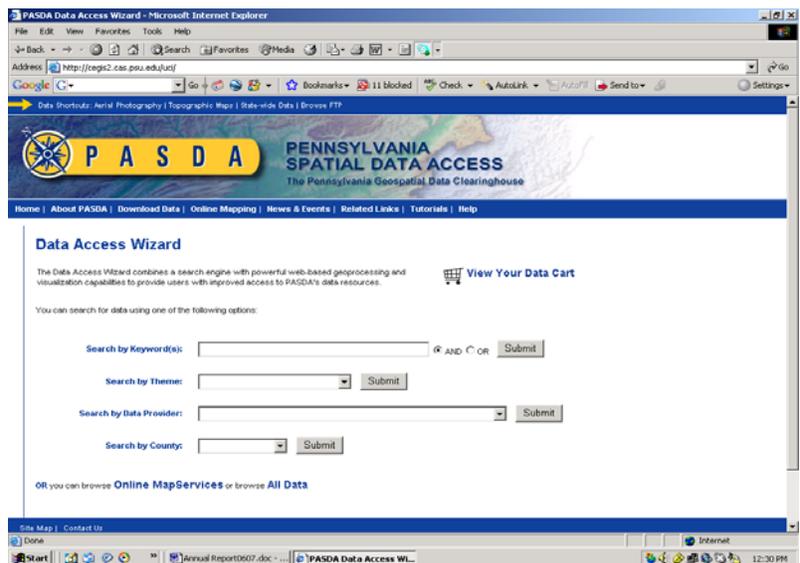
Additional options were added to the suite of map services. Users could add the data through ArcMap, view in Google Earth, or use our WMS service. In addition to image services, feature services, which allow greater analysis capabilities, were developed for most data.



The success of the map service initiative can be seen in the statistics. In FY 2006-2007 there were over 500,000 users of map services. The most popular map services were PA MAP, PA DOQQ (PA Aerial), and DRG. The most popular weather services were latest radar and satellite (having only added these in 2007).

Data Wizard and User Centered Interface

The finalization of the Data Wizard and User Centered Interface and its integration into the new PASDA website was a major accomplishment and culmination of two years effort. The Data Wizard, as the final result is called, ties together the metadata, relational database, website, and provided a coordinated single point of reference for all data and services available through PASDA. Users can search by keyword, provider, and more or select only map services to view.



The Data Wizard also provides a direct link to the Data Cart option that allows users to select multiple data sets and customize them in terms of geographic extent and projection.

Your Data Cart

 [Return to Search Page](#)

[Remove Dataset](#) - 

Title	Originator	Date
Pennsylvania congressional boundaries (Act 34)	Pennsylvania Department of Transportation	2007 
PaMap Tile Index North	PAMAP Program	2005 

 [Reproject and Download Your Data](#)

 [Clip, Reproject and Download Your Data](#)

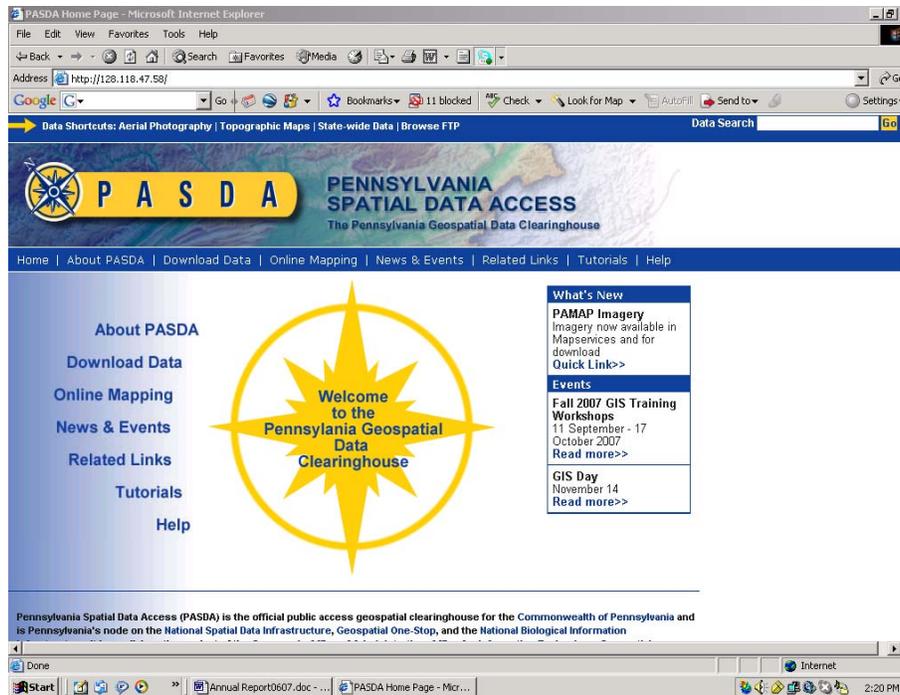
Users can select data sets to add to their cart, view their cart, or view metadata, go directly to the ftp site, or see any applications or map services related to a particular data set by selecting one of the following icons:

- [FTP Download](#) - 
- [Data Applications & Viewers](#) - 
- [Add To Your Data Cart For Download](#) - 
- [MapServices \(ArcMap/GoogleEarth/WMS\)](#) - 

As the statistics indicate, use of the Data Wizard has increased dramatically throughout the FY.

New PASDA Website

A long-term goal of the PASDA team was to redevelop the PASDA website to more accurately reflect the growing suite of services offered. During this FY, the PASDA staff met throughout the early Fall to create an outline for the new website that would serve to integrate website and services. The resulting website has several enhancements including short cuts to data, a calendar for news and events, and a more streamlined look and feel with less text and more focus on data. The site is a more direct conduit to the Data Wizard, Map Services, and applications.



Acquisition of Hardware and Systems Architecture & Application Development

PASDA was given an opportunity through funding from GTO to acquire significant hardware resources to support the further enhancement and growth of the relational database—the backbone of all PASDA applications and map services, as well as provide for redundant backup and storage and enhanced capability for applications servers. The ability to acquire this additional hardware required a redesign of some existing system architecture and redeployment of existing equipment. The new system architecture will support all incoming imagery through 2007 and allow for fully developed raster based map services and applications. It will also add stability, increase performance, and allow flexibility in deploying new services.

Expanded Data Partners

PASDA was able to acquire new data partners throughout the year and to solidify existing partnerships through increased communication and more frequent updates of data. The Pennsylvania Department of Environmental Protection added significant amounts of data to their existing data on PASDA and older, outdated data was eliminated from the site. Users now have regular, quarterly updates of DEP data. A new partner for PASDA is the Pennsylvania Fish and Boat Commission. The PFBC provides regular updates to PASDA for all of its available data and also provides a direct link to the data on PASDA from the Commission web site. NOAA/National Weather Service is also a new PASDA data partner and has partnered with collaborators at PSU to deploy weather based map services. The partnership with PAMAP has grown and been enhanced by sharing data management personnel between projects. Scott Dane works both with PASDA and PAMAP and has been able to facilitate the acquisition of the data by PASDA. Ongoing partners continued to share and add data to PASDA. The City of

Philadelphia has updated and added to its data assets on PASDA. PennDOT, DCNR, PA Department of Health have all provided updates to PASDA throughout the year in continuation of the data partnership established in years past. The Western Pennsylvania Conservancy, Natural Lands Trust, Heritage Conservancy, EPA, USGS, Schuylkill Action Network, and USDA are all continuing PASDA partners as well.

PAMAP

The PAMAP program has dramatically increased the amount of data available as well as increasing the hardware needs for PASDA. As the statistics demonstrate, the data, applications and map services available through PASDA for PAMAP are heavily used. In addition to providing these services to the PAMAP program, PASDA also provides assistance with metadata and works with project management and partners to maintain streamlined data flow from PAMAP to PASDA. PASDA also provides support to users seeking or utilizing PAMAP data in the form of both e-mail and phone assistance.

PAView

PASDA is a member of the Executive Committee for the PaView project. This project is a national effort to develop educational information and promote access to data resources such as satellite imagery and aerial photography. PASDA works with PaView members at California University of PA, Penn State, DCNR, and GTO to manage and populate the website and provide direct access to data via the PASDA clearinghouse.

Emergency Support

PASDA provides emergency event support to GTO for such instances as floods, tornados, and accidents. Response to events such as Hurricane Ivan or the train accident in Beaver County was supported through the development of ArcIMS based mapping applications in 2005-2006. In FY 2006-2007, PASDA created an ArcIMS application for the December 2006 winter storm and also develop a Civil Air Patrol test site for exercises. In response to the Commonwealth's need for support and to enhance response time, PASDA developed an Emergency Application Support Template. The template will be used to allow for immediate response to application development needs related to emergency events.

DEP Mine Maps

PASDA continued to work with DEP in the process of providing access to underground mine maps. PASDA created versions of sample maps in Mr. Sid and Jpeg 2000 images for DEP to review. PASDA also provided advice on metadata and helped organize a meeting of DEP representatives to discuss the data components project status. It is expected that the data will arrive in the 2007-2008 FY.

GTO Support

James Spayd, metadata and data systems coordinator for PASDA, worked with GTO to develop templates for state agency data to be used in the GTO enterprise architecture and developed metadata for existing data in the GTO database. PASDA staff also provided assistance to GTO in emergency response support, GIS Day, development of map services, and data acquisition.

Meetings, Conferences, Training, Presentations, & Papers

PASDA staff participated in numerous meetings, conferences, and delivered presentations at many of these events. Of particular interest are:

- ESRI 2006 International Users Conference—collaborative presentation with PSU EMS
- Central Appalachian GIS Conference—presented on new developments on PASDA
- LIDAR Seminar—participated in workshop
- Ortho Workshop—participant
- GIS Day at the Capitol Rotunda—member of organization committee
- NSF Computing Proposal—submitted advanced computing proposal to NSF to support raster data and LIDAR
- ESRI Federal Users Conference—collaborative presentation with PSU EMS
- PA GIS Conference—participated as exhibitor
- OGCI Workshop—participant
- Hurricane Preparedness Teleconference—participant for GTO
- ESRI 2007 International Users Conference—collaborative presentation with PSU EMS
- ArcGIS Server and ArcGIS Server .Net Training
- SEDA-COG GIS Symposium—exhibitor
- PAMAP Advisory Board—participant
- PAVIEW Executive Committee meetings

Procedural Documents Submitted to GTO include:

- PASDA's Role in Emergency Management—white paper for GTO
- Data Naming Process Document
- Data Status Sheet (continually updated)
- Data Processing Procedures
- Draft goals for FY 2007-2008
- Job descriptions and plans
- Architecture diagram
- Equipment proposal diagram
- Projects and services document

User Assistance & Feedback

PASDA continued to serve a wide variety of users with diverse needs in FY 2006-2007. Questions ranged from e-mails inquiring about data availability to more in depth questions related to data use and applicability. Approximately 400 inquiries per month are answered.

Some examples of users include:

FEMA Region 3, Phila Planning, DMVA, Taylor Geoservices, PA Center for Environmental Education, Academy for Educational Development, DCNR, PA Health, Stream Restoration Inc., Liberty Environmental, Worley Parsons, University of Missouri, DEP, NSIA, CoreLogic, Kathi Hannaford, Susquehanna University, David Ford, Temple University, Matt Stowicki, National Geomatica, Joe Hovis, Joe Peifer, Navarro and Wright, Scott Barnes, DEP BMR, Jeff Johns DCNR, Karli Naugle, DCNR, Larry McMillen, IEEE, Krista Nelson, Delaware Estuary Program, Stewart Bruce, PSU, Jay Parrish, DCNR, Lorraine Farrell, Malcolm Pirnie, EPA environmental justice program, Chamberlin Surveying & Consulting, Delaware Estuary Program, ERM, PA Center for Health and Environmental Initiatives. Hiser Engineering, SRBHOS, Bassett Engineering, Cooperative Wetlands Center, Mercyhurst College, Allegheny College, USGS water resources, City of Allentown, Senate Republican Redistricting Office, Carnegie Mellon, California University, Paterno Library, Delta Program, National Geomatica, Joe Hovis, DMVA, Joe Peifer, Navarro and Wright, Scott Barnes, DEP BMR, Jeff Johns, DCNR, Karli Naugle, DCNR, Larry McMillen, IEEE, Krista Nelson, Delaware Estuary Program, Stewart Bruce, PSU, Lorraine Farrell, Malcolm Pirnie, GAI Consulting, James Sewall Company, PSU Office of the Physical Plant, SAIC, DMJM Harris, PAMAP Program (Chris Markel), Talisman Energy, DEP Water Quality Standards, Crawford County, Stream Restoration Inc, PA Partners, Virginia Tech, City of Philadelphia Department of Records-Mapping Unit, Center for Urban and Public Affairs Department of Urban Affairs & Geography Wright State University, MacGuire Group, Raggo Surveying, PADEP, Beran Environmental, Stream Restoration Inc, CS Engineers, HDR, Stee Fleagle Penns Valley High School, Potomac Hudson Engineering, Potomac-Hudson Engineering, Inc., Bureau of Water Standards and Facility Regulation Department of Environmental Protection, DEP Mine Mapping, Army TEC, Cooperative Wetlands Center, USGS Reston, NOAA, NY Dept of Conservation, Maryland Fisheries Service, Carl Fehrenbach, Certified General Appraiser, Mercyhurst College, USGS New Cumberland, NY Dept of Enviro Conservation, Juniata College, National Weather Service, Middle Atlantic River Forecast Center (MARFC), PA DEP, Assisted Shaun Busler to connect to PASDA MapServices via WMS, assisted staff at Upper Susquehanna Crop Management Associates to connect to PASDA's ArcIMS services from ArcMap, Carnegie Mellon Center for Economic Development, DCNR PAMAP program, DEP Mining, Conestoga Valley High School, James Sewall Co. Shane Hoover DCNR, Appalachian Mountain Club, State College Area High SchoolPHMC, Stream Restoration, legislative reference bureau, Carnegie Mellon, PA Game Southwest region, Intl assoc wildlife and fisheries, USDot, GTO, Dusquesne Light, Parkwood Resources,

Resource Technologies Corporation, Armstrong County, AlbertinVernon Architecture, National Renewable Energy Laboratory, Interact Public Safety Systems, US Army Corps of Engineers Louisville District, Davey Resource Group, PAMAP program, WorleyParsons, C.C. Johnson and Malhorta, NOAA, Tetra Tech, USGS (Ithaca), Navarro & Wright Consulting Engineers, Inc., Mandy Davis The University of Pennsylvania, U.S Fish and Wildlife service, Pa Fish and Boat Commission, Penn State Cooperative wetlands center, Duquesne Light, Montgomery County, PA Regional workforce assessment center, SEDA COG, Bob Sechrist IUP, Penn State Dubois, Johnson & Malhotra PC, AirPhotoUSA, Skelly & Loy, City of Phila MOIS, City of Phila Planning Dept, Malcolm Pirnie, Pennoni Assoc, Water Resources Agency (IPA-WRA), LandVest, PA Fish and Boat Commission, City of Philadelphia, PSU Land Analysis Lab, Technology Assessment & Development, Inc., County Commissioners, AMEC earth and environmental, Transco, McCormick Inc., Hershey Medical Center, Ducks Unlimited, Chesapeake Bay Program, Crawford County, HNTB Corp, West Chester U, PA Breeding Bird Atlas project, PA historic railroad project, James Dronick, EADS group, Alltel Networks, USGS water resources, Prologis, PAMAP, Snyder County, Sierra International, Appalachian Mountain Club, Quiet Creek Farms, Natural Lands Trust, Skelly and Loy, NSIA, Inc., Dauphin County Conservation, Marble and Co., Timberframe services, Geomap, Hershey Medical Center, Sandy Leiser (Milford Historical Group), William Gas Pipeline, West Chester University, UNC Chapel Hill, BE Property, Eva Inc, Ripple Effects, Bucknell University, Kise, Straw, Kolodner Inc, Duggan & Rodes, Taylor Inc. Beaver County, Applied Coastal and Environmental Services, Chesapeake Bay office/USGS, Parkwood Resources, Resource Technologies Corporation, Armstrong County, AlbertinVernon Architecture, National Renewable Energy Laboratory, Interact Public Safety Systems, US Army Corps of Engineers Louisville District, Davey Resource Group, WorleyParsons, C.C. Johnson and Malhorta, PADCNr forestry, DMJM Harris, NOAA, Tetra Tech, USGS (Ithaca), Navarro & Wright Consulting Engineers, Inc., Sierra International, Thoughtform, Inc., IUP, Pennoni Assoc., Gannett Fleming, Mercer County, PFBC, US Fish and Wildlife, Audubon, Center City District, Delaware Council for Early Care and Learning, Riley Industries, PA workforce assessment center, SEDA COG, PSU Harrisburg, DCNR Natural Heritage, PA Game Commission, CAP, Great Valley Consultants, Duquesne Light, Hershey Medical Center, WCUPA, City of Phila Planning, U of Delaware, LandVest, Land Analysis Lab, PFBC, Muhlenberg College, Virginia Institute of Marine Science, Rockwell Petroleum, PA Center for Environmental Education, Avencia Inc., Chief, Water Use Management Section, Division of Water Use Planning PA Department of Environmental Protection, City and Regional Planning Cornell University, Geosciences and Map Library Princeton University, USDA Farm Service, Bedford County Planning Commission, ESRI, Inc, PA Center for Environmental Education, Allegheny County, Bryn Mawr, City of Philadelphia, PennDOT, Juniata County, Armstrong County, USDA Farm Service, Cooperative Wetlands Center, Cardiology Associates of Altoona, PSU Plant Pathology, North East Center for Rural Development, Aqua America, Monmouth University, Cornell Ornithology Lab, Isilon systems, Cal Univ, CIESIN, Western NY Crop Management, Potter County, Whitestone Associates, Accuweather, PAMAP, Avencia Inc, NOAA, Ft. Dix SRP-ITAM, Aqua America, Duquesne Light, Northwest Pa Commission, City of Philadelphia, White Associates,

Century 21 Alliance Relocation, PA Housing Finance Agency, Phila Center City District, Blair County, Cambria County, POWR, PA Environmental Council, WD Mohney & Assoc., Amec Inc., Landscape Architecture & Regional Planning University of Massachusetts, Amherst, Clearwater Conservancy, PA Cleanways, Western PA Watershed Program, USGS cooperative center, HNTB corporation, PA Center for Environmental Education, Sunderland Forestry, PSU world campus GIS program, Industrial Economics Inc, Phillips and Assoc. Inc, The Earth Institute, Columbia University, NASA Socioeconomic Data and Applications Center, USGS Chesapeake Bay Office, Vance Wright Adams and Associates, Inc., Slippery Rock University, Sucevic Piccolo, McElroy Deutch, Joseph A. Bishop (Penn State Cooperative Wetlands Center), Penn State Land Analysis Lab, Maryland DNR - Fisheries Department, Florida International University, Hamer Center for Community Development, Motorola, Botsford Surveying, Loyalhanna Management Services LLC, Pennsylvania Transportation Institute, DEP BMR, David Baumbaugh (deer hunter), Industrial Economics, Incorporated, PC EEE, Southwest PA Commission, DMVA, USDA, GeoDecisions, PA DCNR construction division, Clarion County, Videon Central Inc, Washington County Department of Public Safety, Phillips Ultrasound, Heritage Conservancy, O'Brien & Gere, Wyle Inc., PSU DuBois, Workforce Development & Assessment Center, Melissa Trainor, Dave Gilbert, Geo Decisions, Inc. (continuing to help him get NAIP tiffs), Brian Bills, Penn State (PA MAP), Robin Brandt, Penn State, Ag Engineering, U of Michigan Transportation Institute, PennDOT.

Examples of User Feedback:

To Whom it May Concern,

First I would like to thank PASDA for its services - they've been very helpful over the years. Your service and partners help make GIS data accessible to everyone.

Now about us. We here at the Berks County Planning Commission are interested in becoming a PASDA partner and sharing the data that we maintain through your service.

Best regards,

Michael A. Leventry, Berks County Planning Commission

Hi Maurie,

I've downloaded the imagery and inserted it into a flood plain study of Westover. I am attaching that drawing and another to illustrate how we use your data.

The other was used as a display recently in a public meeting held in Freeport to show property owners proposed highway changes. Residents can relate much easier to the aerial photograph (printed out 3' x 4') than to engineering drawings. As a result, we as a consultant look good to the highway department, the department looks good to the public,

and you look good for providing such a valuable resource. I was happy to see that Indiana and Jefferson Counties are also now available, and have downloaded tiles for projects there. I am copying Scott on this because I want to thank you both for all your helpfulness.

Thanks again,

Mike, SPC Engineering

Dear Maurie,

I wanted to kindly thank you and your staff for the professional courtesy you extended to me and the VERY prompt manner that James Spayd sent the requested contours of 2500 Reed Street – If you EVER need anything in the Atlanta region my staff will be happy to return the favor. I will be in Philly working on this project soon, let's say hello.

Curtis Edwards

Hello,

I found your great organisation on the internet. I am with FAS.research - an Austrian Social Network Analysis Institute (please visit our website: www.fas-research.com) and we are currently looking for shape files of Pennsylvania for one of our clients in Pennsylvania.

Best regards,

Heike Warmuth, Vice President, FAS- Network Analysis for Science and

First off, I have to thank you all for the quick response. And second for the great resources and great site!!

Charlie Dow

The maps provided on your website are remarkable (you can make out individual well heads - not to mention cows and people!). And the fact that they're free is astounding. They're a little big, but if you have the right programs you can handle them with ease. The website is easy to use and everything is clearly labeled. The PASDA's effort to create a state-wide mapping system is something that should be continued until the entire state is mapped to this detail and then updated continually, if possible. One request I would make would be to make available an option to obtain a county or quadrangle wide mosaic. Thanks...

Luke P Dewig, El Paso-Tennessee Gas Pipeline

Thank you so much for your help.

We truly appreciate the website and the information that it provides. Thanks again.

Stacey M. Morykin, Civil/Site Designer, Pennoni Associates Inc.

Great work – I only took a cursory look, but I really like the thematic filters, to allow rapid drilldown and selection of data. If I have more time, I will look it over more thoroughly and submit comments.

Best Regards,

David G. Smith PE PLS, Synergist Technology Group, Inc. (SDVOSB)

Dear Ms Kelly:

I also want to say that I greatly appreciate all of the work that you and your staff do to provide this information. I use it often to delineate watersheds and estimate stream flows. I also teach a Site Design course at Harrisburg Area Community College and as part of my lectures I spend time showing students the PASDA site and how to use the data. Again, thank you for providing the PASDA site.

Sincerely,

Chuck Arnold, Project Engineer, C.C.

Johnson & Malhotra, P.C.

Maurie – Hello and Good Morning! The site is awesome! Thanks for the info.

Have a good day!

Regards,

Andy Little, Director of GIS

Thanks for great data sources –

You folks can be proud of making this available and continually improving information and access.

Ed Vozenilek

Ms. Kelly,

I just returned from the NSGIC mid-year meeting in Annapolis, where I spent a good deal of time with my counterparts from other states. One of them is a guy from Colorado who teaches a great many classes in accessing data. He wanted me to know that he always uses PASDA, because "it's about the best state portal out there." Thought you'd want to hear that.

David Turrell

Kudos! on the new Data Access Wizard. Geo-referenced historic topo's...that's great!

Sincerely,
Rob Miller
URS Corporation

Thank-you so much for the service you provide.
The quantity and quality of
information on your site is invaluable. Keep up the good work.
Thank-you again for your service!

Kind Regards,
Doug Hess

Hello,
Just a note about the data access wizard.
This is a great addition to your site.

Thanks!

Donald F. Proto
CADD Manager
American Geotechnical & Environmental Services, Inc.

Maurie,
Thank you very much for your help. I know that I can always count on you
for a quick response.

Diane Rosencrance, R.L.A.
GIS Program Manager
Natural Lands Trust

Hi,

First of all, you have a great resource here! I use your satellite and radar mapservices regularly to augment various real-time GIS projects I have developed and run here at the National Hurricane Center.Thanks for your help and please... keep up the good work!

Regards,

Ethan J. Gibney
Senior Spatial Analyst
NOAA/NWS/NCEP
National Hurricane Center

Dear "PASDA":

I've been trying out some of your WMS links and this is all great stuff!

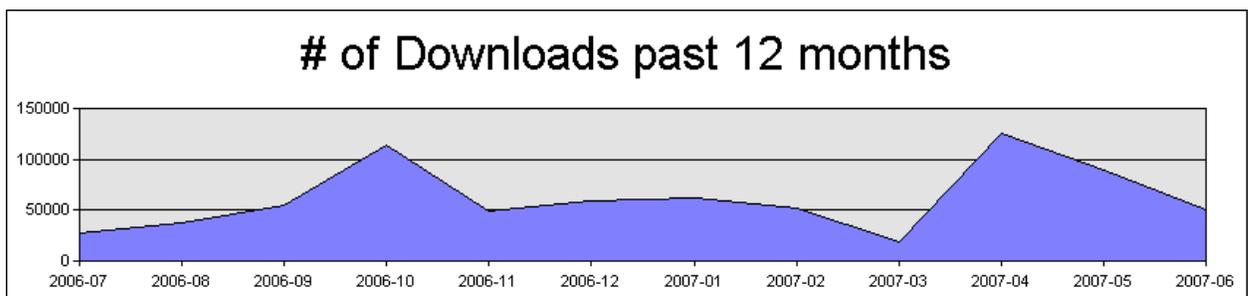
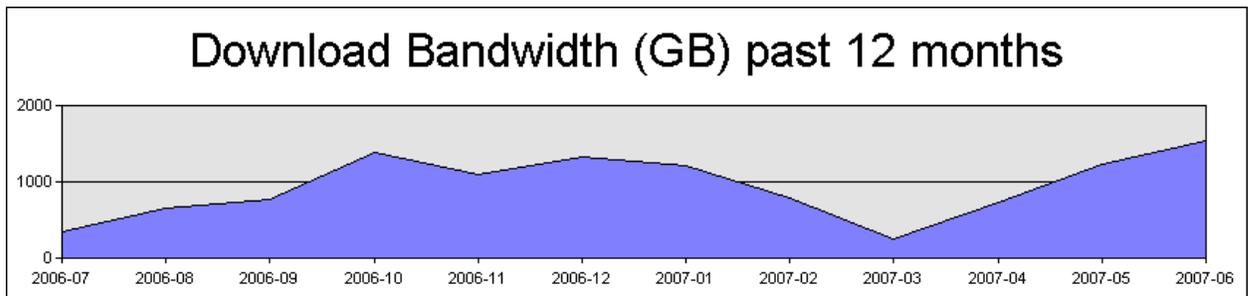
Respectfully,

Steve Corak, R&D Manager, Pioneer Hi-Bred International, A DuPont Company

PASDA Statistics July 2006-June 2007

Data Download Bandwidth (Gigabytes)

Month	PASDA	PAMAP Imagery	Total
2006-07	230	119	349
2006-08	269	392	661
2006-09	284	493	777
2006-10	281	1,113	1,394
2006-11	200	901	1,101
2006-12	393	929	1,322
2007-01	170	1,050	1,220
2007-02	441	346	787
2007-03	244	N/A	244
2007-04	239	489	728
2007-05	310	927	1237
2007-06	290	1,239	1529
Total	3,351	7,998	11,349



Top Downloaded Files

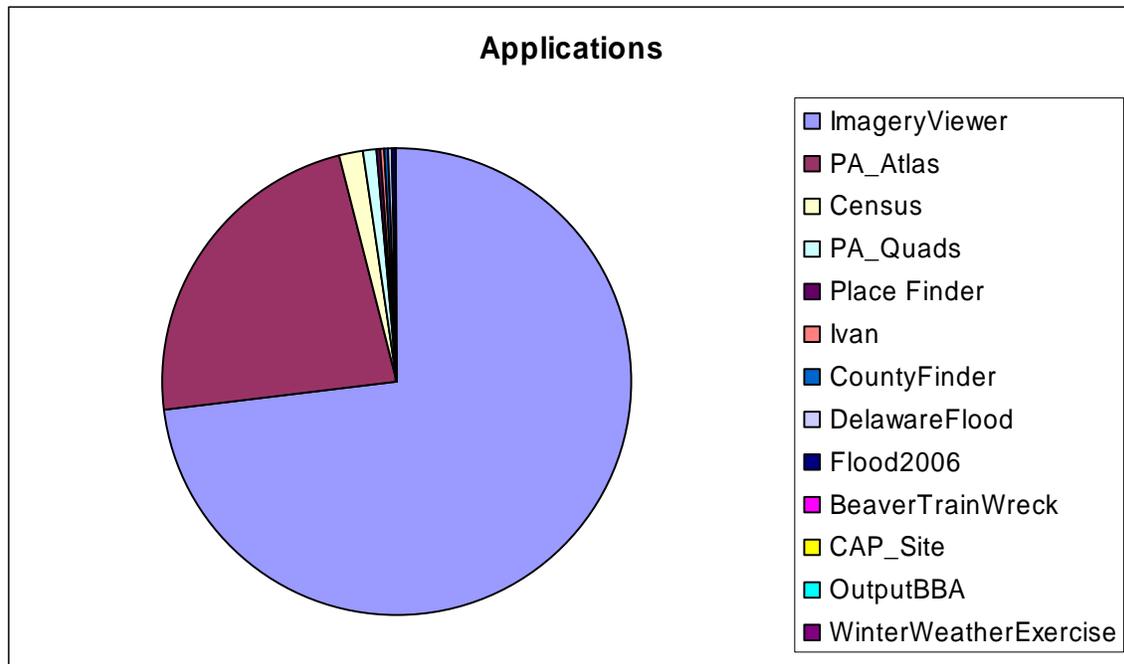
File	Downloads
PAMAP_Tile_IndexNorth.zip	1784
PAMAP_Tile_IndexSouth.zip	1713
padot-localroads_2005.zip	1164
floodpln/floodpln.zip	1050
netstreams.zip	976
padot-municipalities_2005.zip	913
compendium/majrivrs.zip	805
penndot_stateroads_01_2006.zip	771
smallsheds.zip	762
padot/PaStateRoads2007_01.zip	675
padot/boundary_layers/PA_COUNTY01_2006.zip	674
padot/boundary_layers/PaCounty2007_01.zip	528
philacity/phila-buildings_shp.zip	527
padot/boundary_layers/PaMunicipalities2007_01.zip	506
drq24k/philadelphia_pa.zip	478
nwi_poly_statewide2005.zip	434
pamap_imagery/cycle1/SID/North/2005/30000000/31002230PAN.zip	425
mrsid/drq24k/lykens_pa.zip	424
padot/local/padot-localroads_2005.zip	376
watersheds/sheds104.zip	354
drq24k/hanover_pa.zip	344
padot/boundary_layers/padot-state_2005.zip	336
compendium/coal.zip	317
psu-palulc_2000.zip	317
philacity/phila-topocontours2ft_shp.zip	316
compendium/majrrds.zip	307
dcnr/dcnr_stateforestlands_2006.zip	303
philacity/phila-hydrology_shp.zip	289
pamap_imagery/cycle1/SID/North/2005/10000000/17002190PAN.zip	285
philacity/PhiladelphiaParcels200701.zip	279
ntl/Floodplains.zip	273
watersheds/smallsheds.zip	256
pgc/pgc-pa-bnd_sgl-p_geo_2004.zip	253
pamap_imagery/cycle1/SID/North/2005/40000000/49002670PAN.zip	251
netstreams.zip	249
compendium/activerr.zip	244
philacity/phila-streetcenterlines2003_shp.zip	242
indexes/pa_quarterquads_200304.zip	237

Internet Map Services and Applications

Total Hits: 2,575,700

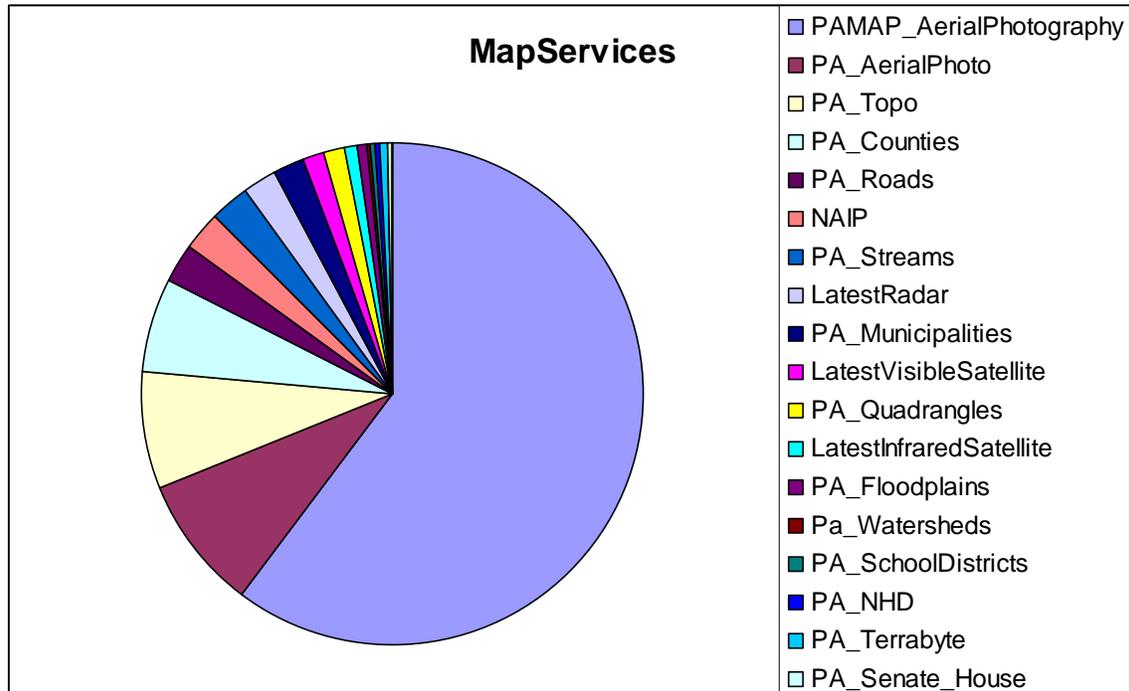
Mapping Applications

ImageryViewer	745279
PA_Atlas	235522
Census	16319
PA_Quads	8695
Place Finder	3442
Ivan	3197
CountyFinder	2832
DelawareFlood	2828
Flood2006	1211
BeaverTrainWreck	799
CAP_Site	152
OutputBBA	42
WinterWeatherExercise	14



Internet Map Services

Service Name	Users
PAMAP_AerialPhotography	311682
PA_AerialPhoto	43809
PA_Topo	39827
PA_Counties	30378
PA_Roads	14110
NAIP	12757
PA_Streams	12595
LatestRadar	11024
PA_Municipalities	9596
LatestVisibleSatellite	8030
PA_Quadrangles	7231
LatestInfraredSatellite	3636
PA_Floodplains	3031
Pa_Watersheds	1931
PA_SchoolDistricts	1807
PA_NHD	1543
PA_Terrabyte	1506
PA_Senate_House	970
PA_NHDWaterbody	610
PA_Stewardship_Areas	430
NGA	102



Data Wizard

Use statistics on the data wizard reflect users who have reached the point of actually selecting and downloading data using the data cart. These numbers do not reflect “hits” on the the Data Wizard page.

<i>Month</i>	<i>Users</i>
2006-07	1100
2006-08	5658
2006-09	10600
2006-10	11534
2006-11	14871
2006-12	14530
2007-01	17728
2007-02	21968
2007-03	23035
2007-04	21002
2007-05	23581
2007-06	24709

PASDA Website

Use statistics on the PASDA website reflect “hits” on the website beyond the home page—two levels into the site. For example, a hit is only registered if a user hits the homepage then advances to a second level page—Access Data, Explore PA, etc. Applications, downloads, map services, and data downloads are captured in the statistics above.

<i>Month</i>	<i>Hits</i>
2006-07	889,566
2006-08	876,560
2006-09	910,698
2006-10	815,339
2006-11	727,805
2006-12	711,143
2007-01	861,922
2007-02	936,554
2007-03	1,040,432
2007-04	992,741
2007-05	987,871
2007-06	1,113,089

User Assistance

Statistics on user assistance are gathered from e-mails and phone calls that are directed to pasda@psu.edu, staff e-mail addresses, and phone calls to all staff.

<i>Month</i>	<i>E-mail</i>	<i>Phone</i>
2006-07	347	65
2006-08	319	42
2006-09	417	71
2006-10	466	69
2006-11	361	65
2006-12	303	39
2007-01	382	57
2007-02	430	66
2007-03	485	63
2007-04	488	68
2007-05	507	72
2007-06	497	70