





ICPSR's Restricted-use Data Management and Virtual Data Enclave

Data-PASS Alliance Workshop on Data Under Constraint: Tools and Strategies for Facilitating Transparency

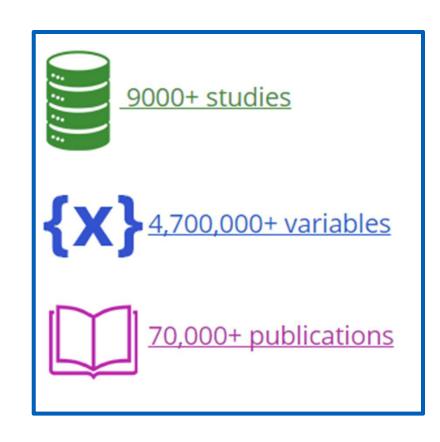
August 30, 2017

Justin Noble, Acquisitions Manager Inter-university Consortium for Political and Social Research (ICPSR)



ICPSR

- Domain Repository for Social & Behavioral Sciences
- International consortium of 760 academic institutions and research organizations
- 55 years of distributing social and behavioral science research data, including government data
- Largest social science data archive in world



Restricted-Use Holdings at ICPSR

- Over 1,350 restricted-use datasets available for analysis
- Approximately 20 datasets accessible only on site in physical enclave
- Over 2,000 active restricted-use data agreements
 - Across 500+ institutions
 - Representing 150+ studies
 - Approximately 50 new agreements executed per month

Methods of Accessing Restricted-Use Data

- ICPSR offers three methods of restricted-use data access:
 - Physical Enclave
 - Secure Dissemination
 - Virtual Data Enclave (VDE)

Principal Investigator(s): Rosay, Andre, University of Alaska-Anchorage; Henry, Tara, Forensic Nurse Services, Inc.

Summary:

This project examined the characteristics of sexual assault victimizations in Alaska, as observed and recorded by sexual assault nurse examiners in Anchorage, Kodiak, Bethel, Soldotna, Nome, Fairbanks, Homer, and Kotzebue. The sample utilized for this study included all sexual assault nurse examinations conducted in Anchorage from 1996 to 2004, in Bethel and Fairbanks in 2005 and 2006, and in Homer, Kodiak, Kotzebue, Nome, and Soldotna in 2005. A total of 1,699 examinations were collected. More ... (more info)

Access Notes

One or more files in this study are not available for download due to special restrictions; consult the restrictions note to learn more. You can apply online for access to the data. A login is required to apply for access.

Dataset(s)

Documentation: Codebook.pui Questionnaire.pdf User guide.pdf Download: No downloadable data files available.

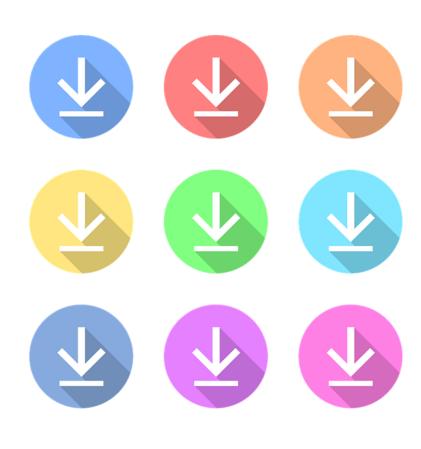
Physical Enclave

- Researcher must be present in person at ICPSR to analyze data
- All results reviewed for disclosure before release to researcher
- Allows greatest control over data
- Extremely high barrier to access



Secure Dissemination

- Data are encrypted and delivered via download
- On-line proposal request system
- When request is approved, investigator receives temporary link and password to download files
- Data must be destroyed at the completion of project
- Researcher commits to protect confidentiality of data, but method relies on their trustworthiness



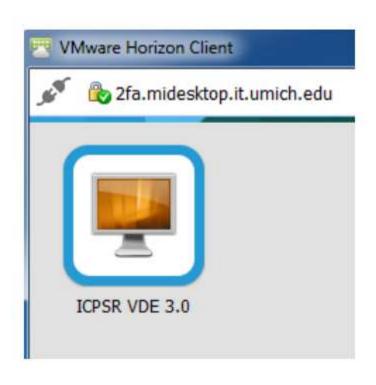
Virtual Data Enclave (VDE)

- ICPSR hosts Virtual Data Enclave (VDE) providing local access to restricted-use data in secure environment
- VDE is virtual machine launched from researcher's desktop that operates on remote server – at ICPSR
- Data remain on ICPSR file servers and are accessed and analyzed by researcher virtually
- Virtual machine restricts users from printing, emailing, copying, or otherwise moving files outside of the secure environment, either accidentally or intentionally

VDE Options and Software

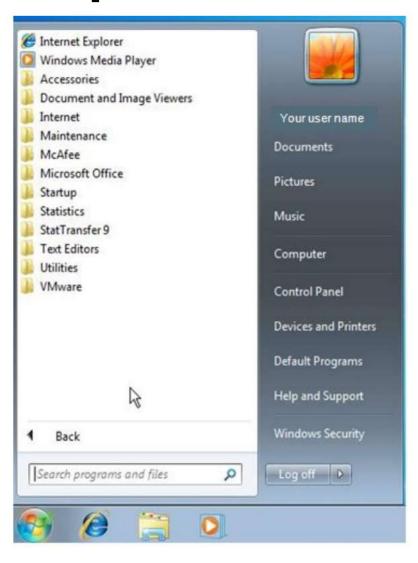
- ICPSR offers options such as
 - Vetting of research results generated in VDE
 - Third-party disclosure review with release of cleared output outside VDE firewall
 - File sharing among project team members
- Software tools and support available for use within VDE include
 - Geospatial analysis tools
 - Statistical analysis software
 - Various documentation programs

VMWare + Two-factor Authentication





VDE Desktop



Applying for Access

- Users must apply for access
 - Describe proposed research and why restricted data is required
- All users must sign a Restricted Data Use Agreement
 - Agree to data security requirements and procedures
 - Principal Investigator generally must hold terminal degree
 - Students can be on agreements
 - Some projects provide access to researchers, policymakers, journalists without a terminal degree
 - Be affiliated with legitimate research institution
 - Receive IRB approval or exemption before gaining access to most data

VDE Pricing Models

- Per User
 - Access to VDE to analyze data for one year
 - Current annual access fee: \$350 per user
 - Supports virtual machine technology and associated software licensing costs
- Per Machine
 - Sponsor pays for certain number of virtual machines that are reserved for particular data sets or research community
 - Each virtual machine can support one simultaneous user

Researcher Credentialing for Restricted Data Access

- Project Goals:
 - Develop best practices for transferable researcher credential for accessing restricted data
 - Develop and test user interface for repository websites to accept, authorize trusted digital researcher credentials

- Funded by Alfred P. Sloan Foundation
- ICPSR Project Team
 - Principal Investigator:
 Maggie Levenstein
 - Staff: Johanna Davidson Bleckman
 - Graduate Student Research Assistant: Allison Tyler

Credentialing Project Research Methodology

- Environmental scan and organizational study of 23 restricted data repositories
 - 16 United States
 - 7 International (Germany, Australia, United Kingdom, the Netherlands)
- Document analysis
 - Policy documents, legal statutes, repository documentation
- Interviews
 - Semi-structured interviews with repository staff

Convening of Stakeholders

- July 24, 2017: ICPSR and Georgetown convened over two dozen representatives from government agencies, data repositories, and academic institutions
- Researcher Attributes/Research Identity:
 Professional and institutional affiliations, training certifications, grants received, and publication history
- Feedback from meeting informs White Paper to be published this winter
- Developing and testing software and web interface of credentialing system

Copyright

Information about Copyrighted Content

Some instruments administered as part of this study may contain in whole or substantially in part contents from copyrighted instruments. Reproductions of the instruments are provided as documentation for the analysis of the data associated with this collection. Restrictions on "fair use" apply to all copyrighted content. More information about the reproduction of copyrighted works by educators and librarians is available from the United States Copyright Office.

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openICPSR Repositories

- Branded, self-deposit system to demonstrate research impact of a an organization or group
- Demonstrate research transparency by making data available for replication and providing live links to publications
- Provide authors with DOIs and data citations upon deposit
- Restricted-use data shared securely through VDE
- Other Features:
 - Deposit Notifications
 - Project Sharing
 - Delayed Dissemination

Journal Repository Workflow

- Conditional acceptance of paper
- Authors publish replication data
- Journal notified of data release
- Data citation/DOI added to paper
- Article published
- Article citation/DOI added to related publications section of data



JEH Journal of Economic History Data Repository

JEH Deposit Instructions

Browse JEH Deposits

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Depositing Data with openICPSR to fulfill the Journal of Economic History Archiving and Replication Requirements

The Journal of Economic History requires authors to deposit data and materials with the openICPSR repository that allow other researchers to replicate analyses in a published article without any additional information from the author. Authors are also required to include a citation pointing to the data in the reference section of the final version of the article sent to the JEH editors. The openICPSR repository automatically generates a citation when the data are "published."

Deposits should include all data, annotated program code, command files, and documentation that is needed to replicate the findings from a JEH article. Each variable in the data collection should have a set of exhaustive, mutually-exclusive codes. Variable labels and value labels should clearly describe the information or question recorded in that variable. Missing data codes should be defined. Identifying information should be removed from the data to protect confidentiality. Program code and command files should be annotated to facilitate replication and ensure clear correspondence between code and figures, tables, and analyses in the JEH article. For a discussion of best practice in preparing data for sharing, please refer to ICPSR's Guide to Social Science Data Preparation and Archiving, 5th Edition.

Start Your Deposit

ICPSR's Role

ICPSR does not approve or alter datasets deposited in openICPSR in any way. Data are distributed in the same condition and format submitted by the depositor. Data approved for public use are distributed at no cost to users. ICPSR may charge a fee for the costs of managing data that have been restricted to protect confidential information about research subjects.

Confidentiality and Copyright

Investigators submitting data to ICPSR are entirely responsible for ensuring the confidentiality of research subjects. The presence of identifiable or sensitive information must be indicated during the submission process. ICPSR does not review submissions for disclosure risk. Investigators are also required to affirm that they have the right to publish this material. ICPSR requires a license for distribution of data, but copyright remains with the author.

About JEH

The Journal of Economic History is devoted to the multidisciplinary study of history and economics, and is of interest not only to economic historians but to social and demographic historians, as well as economists in general. The journal has broad coverage, in terms of both methodology and geographic scope. Topics covered include money and banking, trade, manufacturing, technology, transportation, industrial organisation, labour, agriculture, servitude, demography, education, economic growth, and the role of government and regulation.



JEH Journal of Economic History Data Repository

JEH Deposit Instructions

Browse JEH Deposits

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Filters



Geography

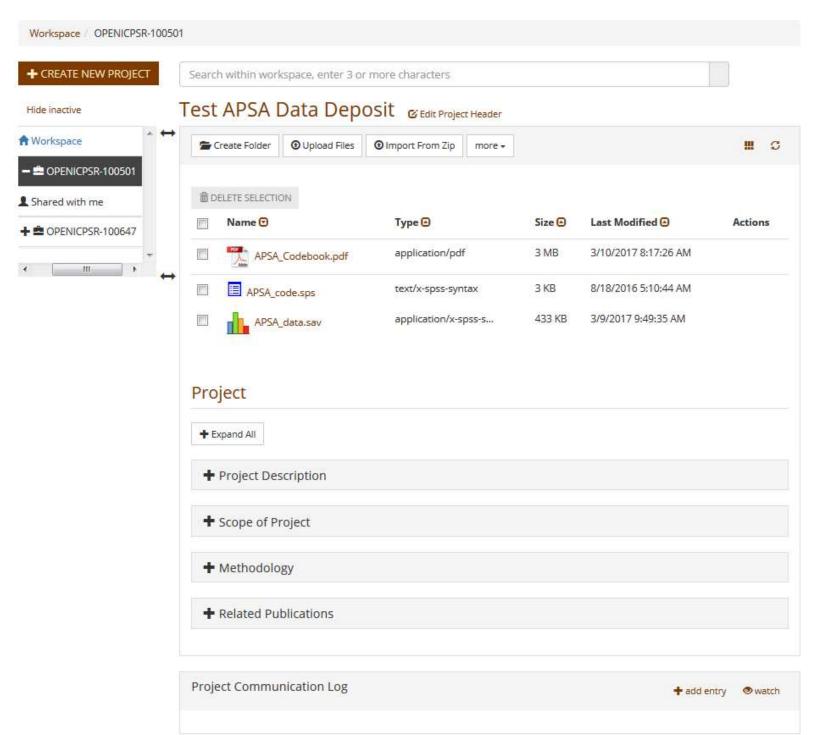
Access Level

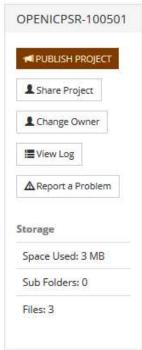
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8.	Local Economic Impacts of Coal Mining in the United States 1870 to 1970 Matheis, Mike	2016-12-02

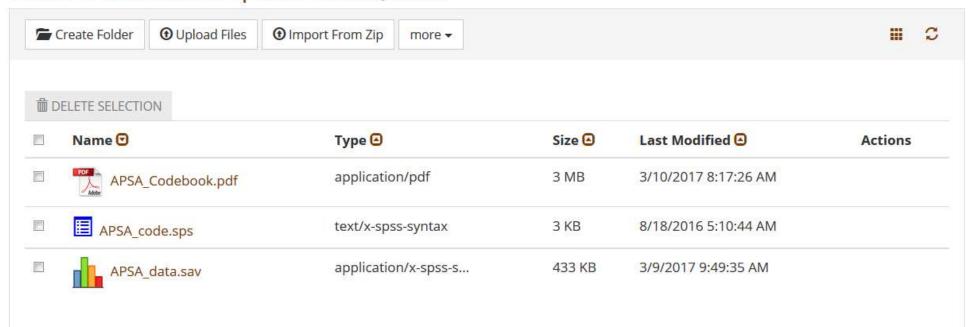
Project Sharing

- Collaborate on data deposit prior to publication of data
- Use-cases:
 - Co-authors
 - Graduate students and PIs
 - Authors and journal editors





Test APSA Data Deposit © Edit Project Header

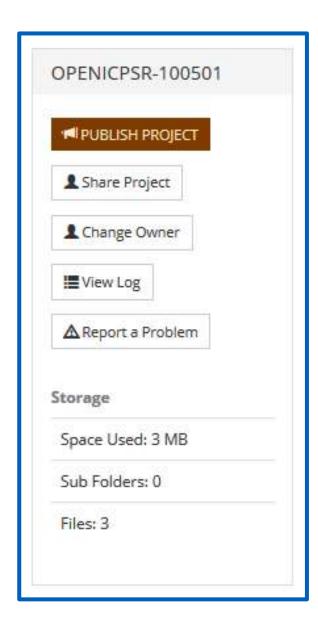


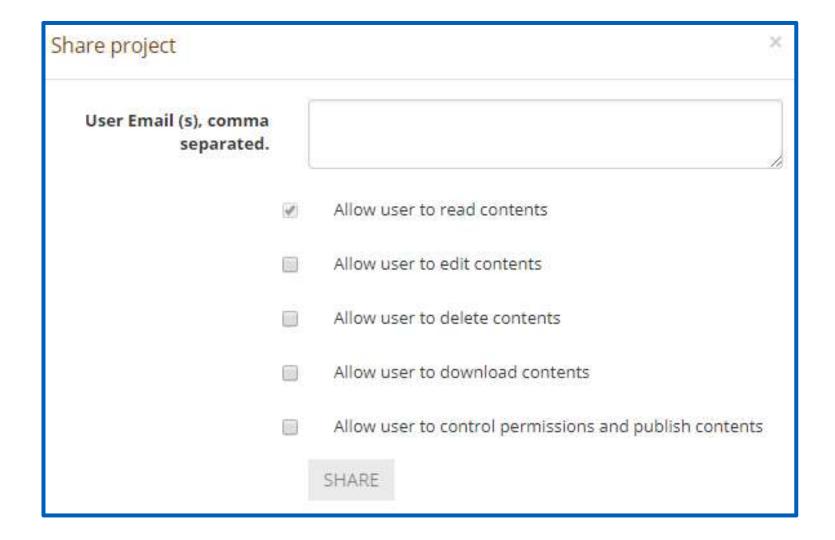
Project

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- Project Description

edit x remove





Terms and Conditions

- Disclosure Risk
- Distribution Method
- Delayed
 Dissemination
- Deposit Agreement



Disclosure Risk

Can individuals be identified from information in this Data Collection? If the data were made public, could someone use a combination of variables (e.g. age, sex, race, occupation, geography) to find individuals in a publicly available database?



Does this Data Collection include sensitive information? Would the release of individually identifiable information create a risk of harm (e.g. psychological distress, social embarrassment, financial loss) greater than the risks that people experience in everyday life?

Yes No (required)

Distribution Method

Data Collections that are unsuitable for public download due to disclosure risk and data sensitivity issues may be published as restricted data. Users will be required to apply for access to the data.

Public download Restricted Access

Unsure about whether to publish as restricted data or public download? Read our FAQ on the pros and cons of restricted data.

Delayed Dissemination

Do you wish to delay the release of your data? openICPSR allows depositors to delay release of data for up to three years.

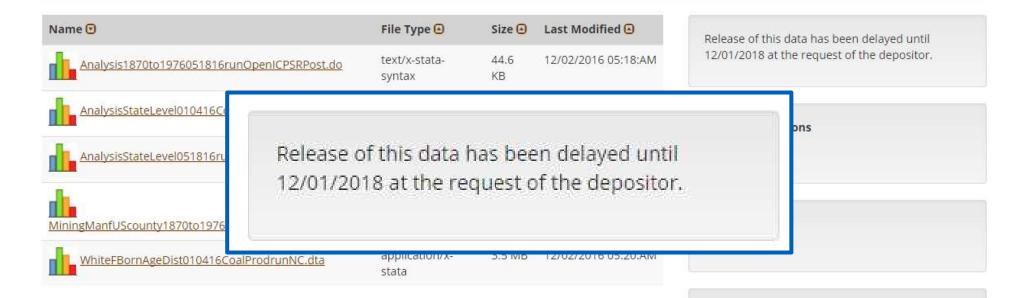
Yes No Release Date:



Local Economic Impacts of Coal Mining in the United States 1870 to 1970

Principal Investigator(s): Mike Matheis, Saint Anselm College

Version: V1



Project Citation:

Matheis, M. (2016). Local Economic Impacts of Coal Mining in the United States 1870 to 1970 [Data set]. Interuniversity Consortium for Political and Social Research [distributor]. https://doi.org/10.3886/E100364V1

Persistent URL: http://doi.org/10.3886/E100364V1

Project Description

Project Title: Local Economic Impacts of Coal Mining in the United States 1870 to 1970

Summary: This article expands upon the current "resource curse" literature by using newly collected county data, spanning over a century, to capture the short- and long-run effects of coal mining activity. It provides evidence that increased levels of coal production had positive net impacts on county-level population and manufacturing activity over an initial ten-year span, which become negative over the subsequent decades. The results provide evidence that any existence of a "resource curse" on local areas due to coal mining is a long-run phenomenon, and in the short run there are potential net benefits.

Report a Problem

Found a serious problem with the data, such as disclosure risk or copyrighted content? Let us know.



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Thank you!

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