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Supplemental Slides for "Data Management Failures: Teaching the Importance of DMPs through Cautionary Examples" in the ACRL Data Literacy Cookbook

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Supplemental Slides for
“Data Management Failures:
Teaching the Importance of
DMPs through Cautionary
Examples” in the *ACRL Data
Literacy Cookbook*

Richard M. Mikulski, Portland State University, rmm8@pdx.edu








Data Management Failures: Showing the Importance of DMPs through Cautionary Examples

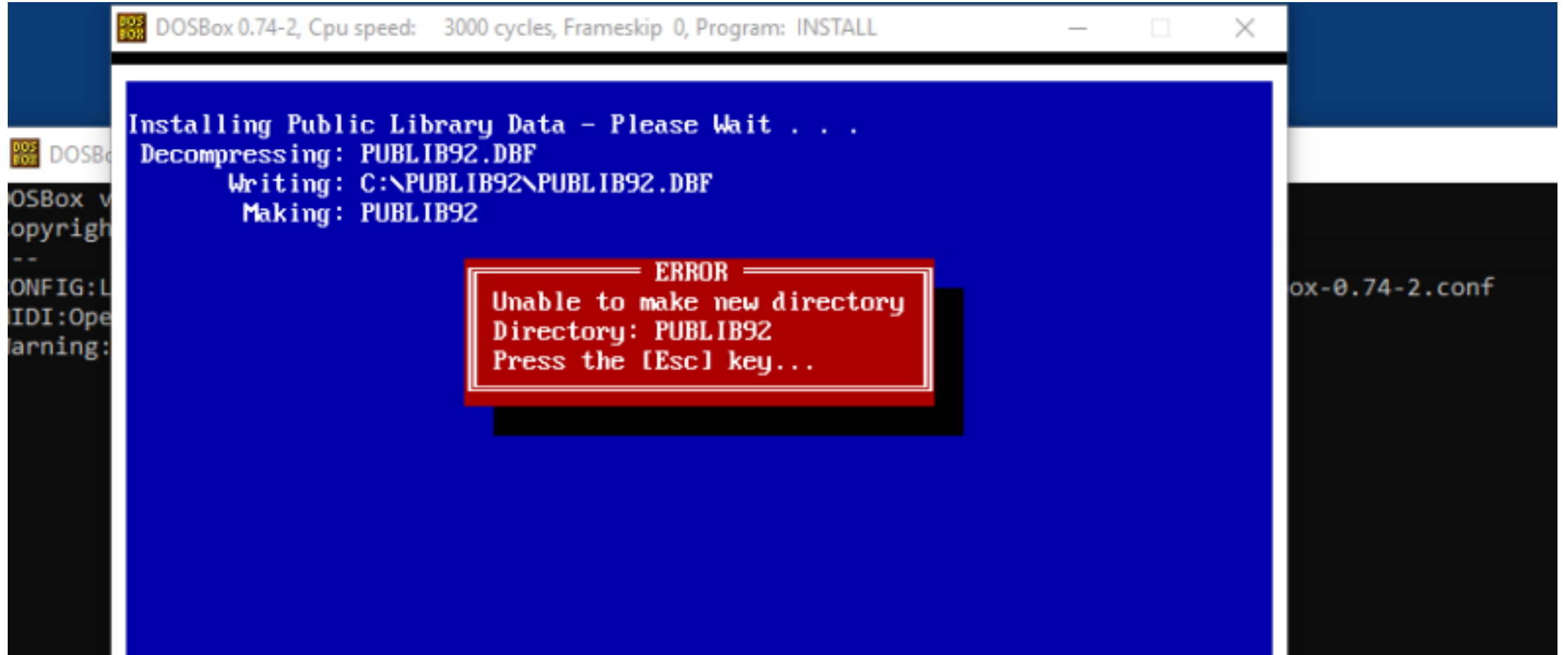
Example One, Department of Education Longitudinal Data



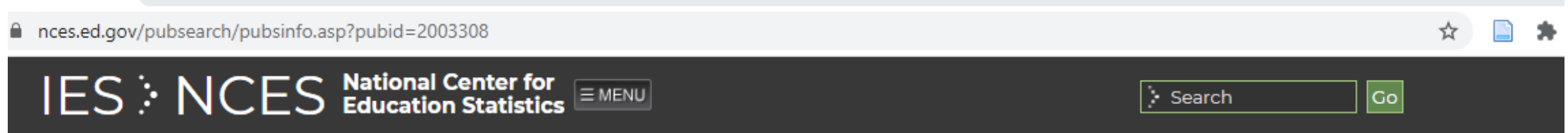
Example One, Department of Education Longitudinal Data

| | |
|-----------------------------|--|
| Title: | Data File (Public-Use): Public Libraries Survey, Fiscal Year 1992 |
| Description: | The Public Libraries Survey is conducted annually by the National Center for Education Statistics through the Federal-State Cooperative System for Public Library Data. The data are collected by a network of state data coordinators appointed by the chief officers of state library agencies in the 50 States and the District of Columbia. Data are collected on population of legal service area, service outlets, public service hours, library materials, total circulation, circulation of children's materials, reference transactions, library visits, children's program attendance, staff, operating income, operating expenditures, capital outlay, and more. |
| Online Availability: | <ul style="list-style-type: none">→ Download, view, and print the documentation as a pdf file  (152KB)→ Download the full zip file in MS-Access format  (2,077KB)→ Download the full zip file in ASCII format  (1,837KB) <p> <i>Need Help Viewing PDF files?</i></p> <p> <i>Need Help Viewing Zip files?</i></p> |
| Cover Date: | November 2002 |
| Web Release: | November 5, 2002 |
| Print Release: | This Publication will only be available online. |

Example One, Department of Education Longitudinal Data





Example One, Department of Education Longitudinal Data

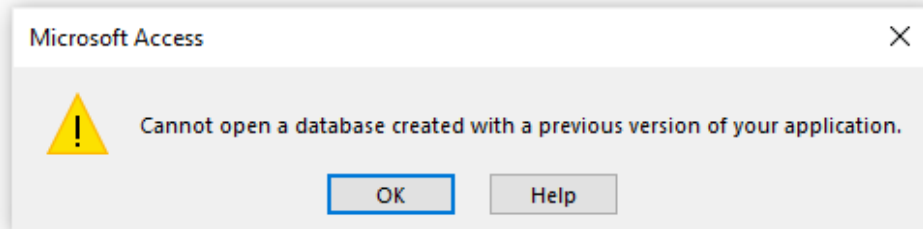


Title: Data File (Public-Use): Public Libraries Survey, Fiscal Year 1992

Description: The Public Libraries Survey is conducted annually by the National Center for Education Statistics through the Federal-State Cooperative System for Public Library Data. The data are collected by a network of state data coordinators appointed by the chief officers of state library agencies in the 50 States and the District of Columbia. Data are collected on population of legal service area, service outlets, public service hours, library materials, total circulation, circulation of children's materials, reference transactions, library visits, children's program attendance, staff, operating income, operating expenditures, capital outlay, and more.

Online Availability:

- [Download, view, and print the documentation as a pdf file](#)  (152KB)
- [Download the full zip file in MS-Access format](#)  (2,077KB)



Cover Date: November 2002

Example One Discussion

What lessons can we learn from the NCES reliance on disks and website storage solutions?

How could these weaknesses have been avoided?

```
===== VIEW/UPDATE DATA ENTRY SCREEN - ADMINISTRATIVE ENTITY ===== Pg 1
----- IDENTIFICATION -----
01 LIB. ID#:003                1A FSCS ID#:WY0002
02 NAME:  KAMPBELL COUNTY PUBLIC LIBRARY
03 ADDRESS:5101 4-J ROAD      04 CITY:BILLETTE
4A County:                    05 ZIP1:92716    06 ZIP2:0000
07 PHONE:  (307) 682-3223
```


Example Two, Federal Energy Regulatory Commission

← → ↻ 🏠 🔒 ferc.gov/industries-data/electric/general-information/electric-industry-forms/form-1-electric-utility-annual 🔍 ☆ 📄 ⚙️ 🌐

FERC

- Industries & Data
- Enforcement & Legal
- News & Events
- About
- FERC Online

Electric

- Overview
- Power Sales and Markets
- Electric Reliability
- Electric Transmission
- General Information**
 - Electric Industry Forms**
 - Mergers and Sections 201 and 203 Transactions
 - Required Filers
 - Annual Charges

[HOME](#) > [INDUSTRIES & DATA](#) > [ELECTRIC](#) > [GENERAL INFORMATION](#) > [ELECTRIC INDUSTRY FORMS](#) > FORM 1 ELECTRIC UTILITY ANNUAL REPORT

Form 1 - Electric Utility Annual Report

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Data (Current and Historical)

The Form No. 1 is a comprehensive financial and operating report submitted for Electric Rate regulation and financial audits. Major is defined as having (1) one million Megawatt hours or more; (2) 100 megawatt hours of annual sales for resale; (3) 500 megawatt hours of annual power exchange delivered; or (4) 500 megawatt hours of annual wheeling for others (deliveries plus losses).

| Report Year | FoxPro DB |
|-------------|---------------------------------|
| 2019 | All Respondents |
| 2018 | All Respondents |

Quick Links

- [Connecting to a Visual FoxPro Database Through Microsoft Access](#)
- [Electronic Submission Software](#)
- [Electronic Submission Software Installation Manual](#)
- [Viewer Instructions & Download](#)
- [Viewer Software](#)

Example Two Discussion

What lessons can we learn from the FERC's dependance on proprietary software?

How could these weaknesses have been avoided?

The screenshot shows a web browser window displaying the FERC website. The address bar shows the URL: ferc.gov/industries-data/electric/general-information/electric-industry-forms/connecting-visual-foxpro. The page content includes a breadcrumb trail: HOME > INDUSTRIES & DATA > ELECTRIC > GENERAL INFORMATION > ELECTRIC INDUSTRY FORMS >. The main heading is "Connecting to a Visual FoxPro Database Through Microsoft Access". Below the heading, the text reads: "Microsoft Access uses a menu system to connect to Visual FoxPro databases. For this example, the Visual FoxPro (VFP) tables and database are located in the directory C:\F1ViewDB." There are social media sharing icons for Twitter, Facebook, LinkedIn, Email, and Print. A "Quick Links" sidebar on the right contains links for "Electric", "Natural Gas", and "Oil". The left sidebar of the website lists various categories: FERC, Industries & Data, Enforcement & Legal, News & Events, About, and FERC Online. The main content area also has a "General Information" section with sub-links for "Electric Industry Forms", "Mergers and Sections 201 and 203 Transactions", "Required Filers", and "Annual Charges".

Example Three

American Community Survey 2005 1-Year Estimates

The screenshot shows a web browser window with the URL census.gov/data/developers/data-sets/acs-1year.2005.html. The page features the United States Census Bureau logo and a search bar. A navigation menu includes links for BROWSE BY TOPIC, EXPLORE DATA, LIBRARY, SURVEYS/ PROGRAMS, INFORMATION FOR..., FIND A CODE, and ABOUT US. The breadcrumb trail reads: // Census.gov > Data > Developers > Available APIs > American Community Survey 1-Year Data (2005-2019).

DEVELOPERS

- About this Section
- API Forum
- App Gallery
- Available APIs
- Geography
- Guidance for Developers
- News
- Terms of Service

American Community Survey 1-Year Data (2005-2019)

SEPTEMBER 17, 2020

The American Community Survey (ACS) is an ongoing survey that provides data every year -- giving communities the current information they need to plan investments and services. The ACS covers a broad range of topics about social, economic, demographic, and housing characteristics of the U.S. population. Much of the ACS data provided on the Census Bureau's Web site are available separately by age group, race, Hispanic origin, and sex.

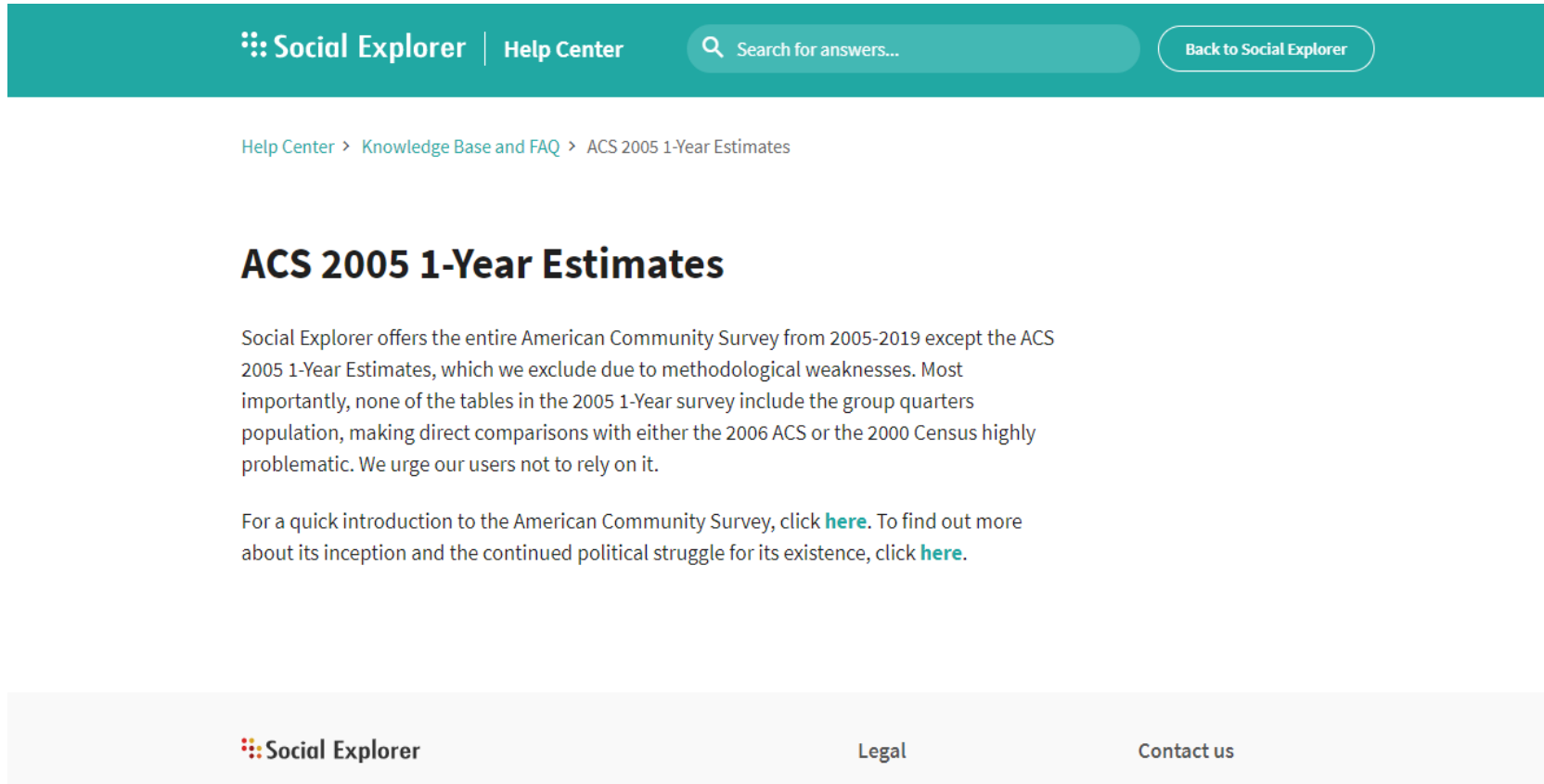
Detailed Tables Subject Tables Data Profiles Comparison Profiles and Selected

Related Information

- Notes on ACS API Variable Formats
- Notes on ACS API Variable Types
- Notes on ACS Estimate and Annotation Values

Example Three Discussion

What lessons can we learn from the 2005 ACS survey design flaws?
How could these weaknesses have been avoided?



The screenshot shows the top navigation bar of the Social Explorer website. It includes the Social Explorer logo, a link to the Help Center, a search bar with the placeholder text "Search for answers...", and a "Back to Social Explorer" button. Below the navigation bar is a breadcrumb trail: "Help Center > Knowledge Base and FAQ > ACS 2005 1-Year Estimates". The main heading is "ACS 2005 1-Year Estimates". The body text explains that the 2005 1-Year Estimates are excluded due to methodological weaknesses, specifically the lack of group quarters population data. It provides two links: "here" for a quick introduction to the ACS and "here" for more information about its history and political challenges. The footer contains the Social Explorer logo, "Legal", and "Contact us" links.

Social Explorer | [Help Center](#) [Back to Social Explorer](#)

[Help Center](#) > [Knowledge Base and FAQ](#) > [ACS 2005 1-Year Estimates](#)

ACS 2005 1-Year Estimates

Social Explorer offers the entire American Community Survey from 2005-2019 except the ACS 2005 1-Year Estimates, which we exclude due to methodological weaknesses. Most importantly, none of the tables in the 2005 1-Year survey include the group quarters population, making direct comparisons with either the 2006 ACS or the 2000 Census highly problematic. We urge our users not to rely on it.

For a quick introduction to the American Community Survey, click [here](#). To find out more about its inception and the continued political struggle for its existence, click [here](#).

Social Explorer [Legal](#) [Contact us](#)

Summary

- What are some broad lessons we can learn from these three real-world examples of data management errors?
- How can we prevent similar pitfalls in our own research projects?
- How do these examples demonstrate the importance of Data Management Planning?

Credits

All slides and images were created by Richard M. Mikulski. They are all freely-sharable supplemental materials to accompany the “Data Management Failures: Teaching the Importance of DMPs through Cautionary Examples” chapter in the *ACRL Data Literacy Cookbook*.

Readers are encouraged to adopt and adapt any of this content for their own teaching sessions.

Special thanks to Ed Hill, Emerging Technologies Librarian & Head of Library Technology at Portland State University, who assisted in accessing outdated NCES data in Example One.

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