

Peering down the organizational pipeline: Data for School Feeder Patterns

RODRIGO COSTAS

ESRI USER CONFERENCE 2016



SANAMETRIX



Agenda

Introduction to the School Attendance Boundary Survey (SABS)

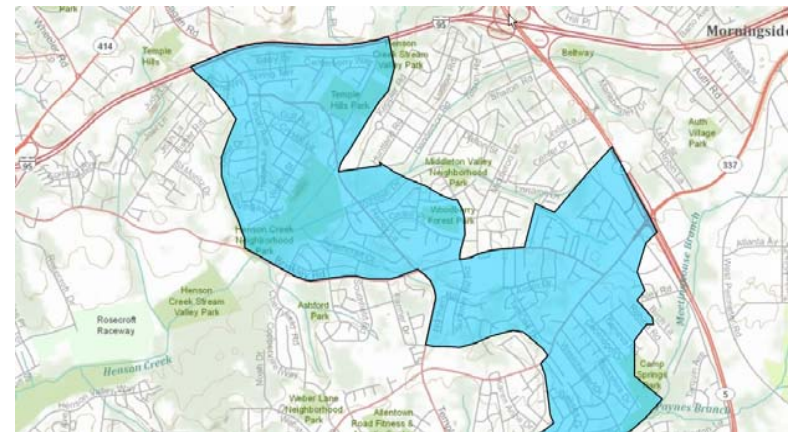
What is a feeder pattern?

Acquiring Data

Looking Ahead

The School Attendance Boundary Survey (SABS)

- SABS Survey Initiation
 - Develop basic data infrastructure
 - Improve data visualization
 - Identify relationships between schools
- Biennial survey conducted by NCES
- First national collection conducted SY 2013-14
- SY 2015-16 is in progress



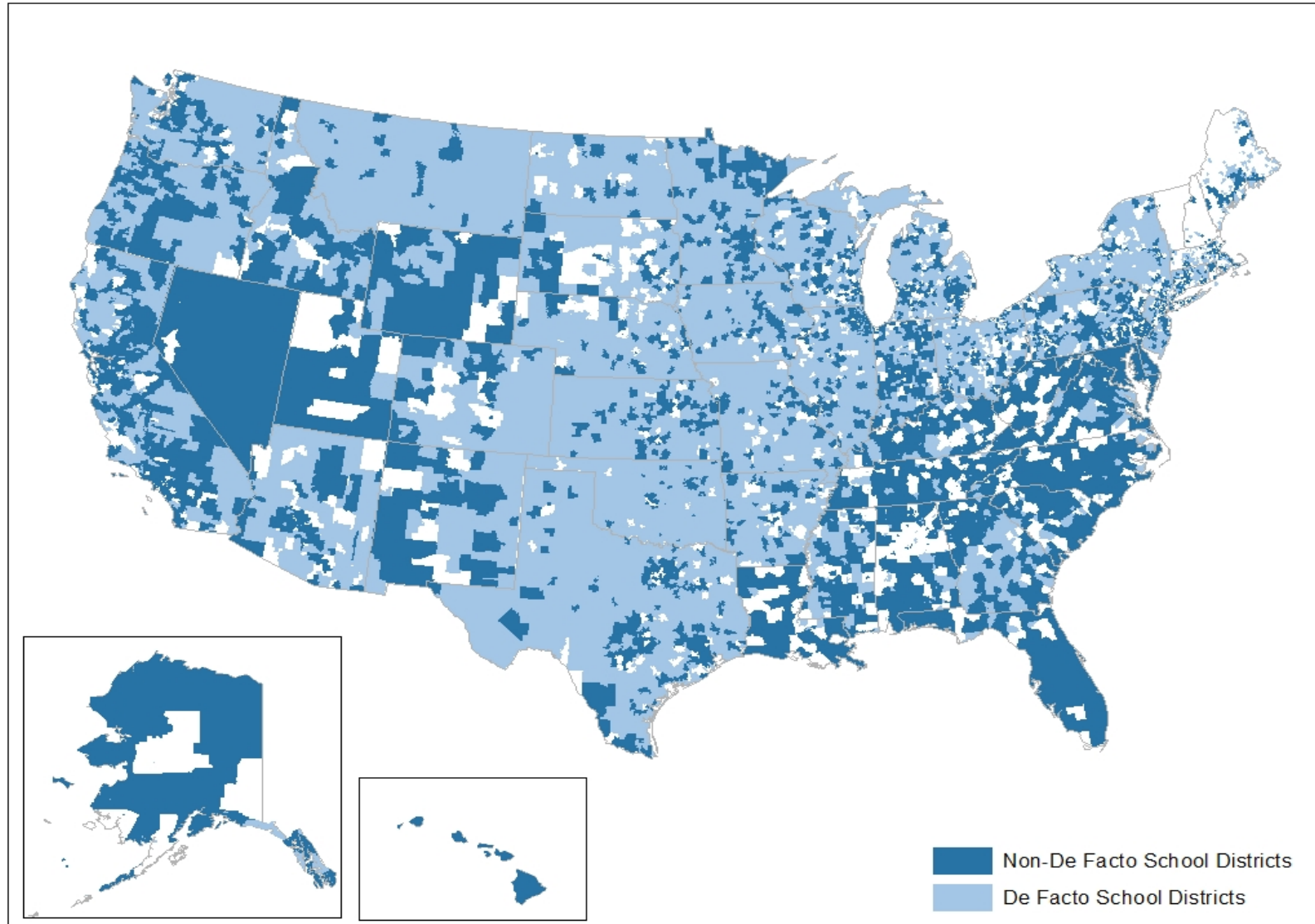
Slide 3

AC5

I would leave this as an image.

Andrea Conner, 5/2/2016

2013/14 Collection Results



Slide 4

AC3

This map could be interactive.

Andrea Conver, 5/2/2016

AC4

This could be a map, but we'd have to make it.

Andrea Conver, 5/2/2016

SABS Universe Definition

For a district to be included in the survey, it had to

- Be included in the Census Bureau's SY 2013-14 School District Review Program;
- Be defined as a regular school district on the Common Core of Data (CCD);
- Have at least one qualifying school within the district



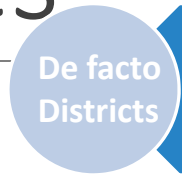




Schools within qualifying districts

- Currently open
- Not a charter or magnet school
- Has students
- Has at least one grade greater than prekindergarten; and
- Defined as a regular school by the SY 2013-14 CCD




Collection Vehicles



-  De facto Districts
-  No response required
-  Web
-  Emailed
-  Mailed



School Mapper


NATIONAL CENTER FOR EDUCATION STATISTICS
 SCHOOL ATTENDANCE BOUNDARY SURVEY

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Two Ways To Get Started:

Draw Boundaries

- 1 Draw new or review boundaries submitted a previous year by clicking the **Begin Drawing School Boundaries** button to go to the map.
- 2 See the status of your progress below. Once you have 100% completion for drawing all school levels, you can download the shapefile.

[GO](#)

Upload Boundaries

- 1 Zip and upload your boundaries if you have them already in shapefile format by clicking the **Upload School Boundaries** button.

[GO](#)

Edit Boundaries (2015-2016)

BIBB COUNTY - 1300420

Go to the map to create/modify.

[Begin Drawing School Boundaries](#)

OR

Already have boundaries to upload?

[Upload School Boundaries](#)

FileDate Uploaded

Submitted Boundary Outputs:

- [Elementary Schools](#) | [Middle Schools](#) | [High Schools](#) | [Other Schools](#)

Elementary Schools


- ACADEMY FOR CLASSICAL EDUCATION
- BURGHARD ELEMENTARY SCHOOL
- JONES ELEMENTARY SCHOOL
- KING - DANFORTH ELEMENTARY SCHOOL
- RICE ELEMENTARY SCHOOL
- ALEXANDER II MAGNET SCHOOL
- BARDEN ELEMENTARY SCHOOL
- BERND ELEMENTARY SCHOOL
- BROOKDALE ELEMENTARY SCHOOL
- BRUCE ELEMENTARY SCHOOL
- BURDELL ELEMENTARY SCHOOL
- CARTER ELEMENTARY SCHOOL

Drawn Boundaries
Percentage Complete - 80%



Download Options

- [View data as PDF:](#)
 • [Elementary school boundaries](#)
- [Download Shapefiles:](#)
 • [Pre-Processed](#)


NATIONAL CENTER FOR EDUCATION STATISTICS
 SCHOOL ATTENDANCE BOUNDARY SURVEY

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Discrete School Levels are assigned by the CCD. Read more about the process in the [Record Layout Appendix](#).

Click on a map location to start. Continue adding map click points to create an outline.
 Complete the area by double clicking your end point location. The area will enclose on double click.
 Click the Save button to save the changes.

Rules (255 Character Limit)
 Attendance Boundaries
 School Locations

+ - Map Control
 Basemap

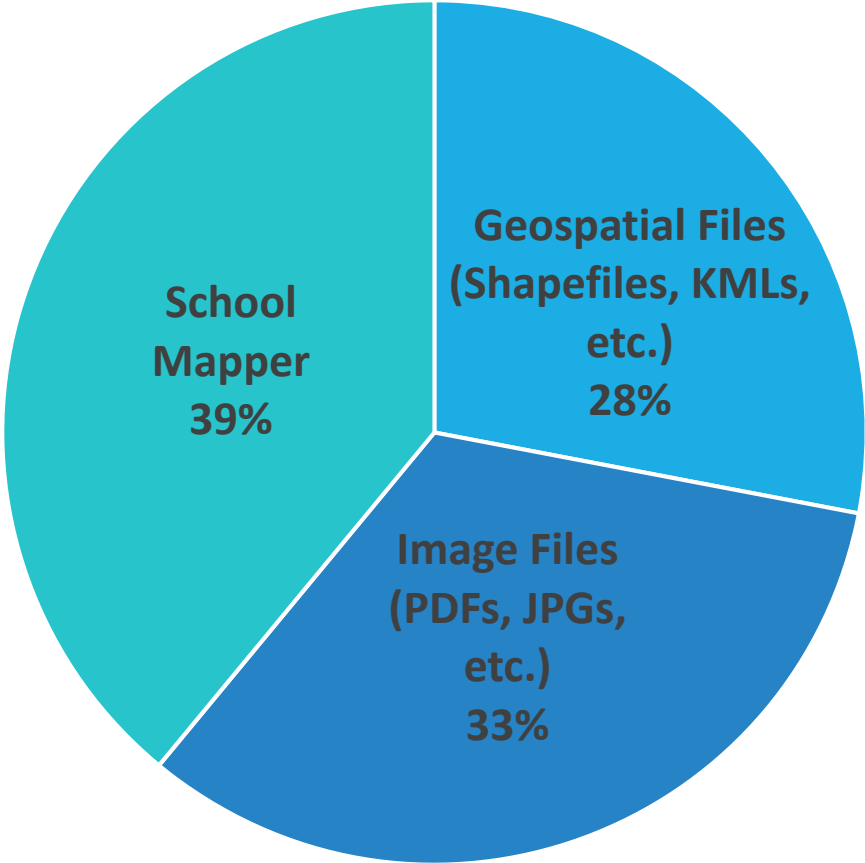
Legend
 • School Point
 • Selected School Point
 Adjacent School Boundaries
 Selected School Boundaries
 School District Boundaries

+ - Map Control
 Basemap

Legend
 • School Point
 • Selected School Point
 Adjacent School Boundaries
 Selected School Boundaries
 School District Boundaries

Bureau of Land Management, Fort, MISS, Oklahoma, INCREMENT

Breakdown of Files Collected for SABS SY 2013-14



The Significance of School Attendance Boundaries

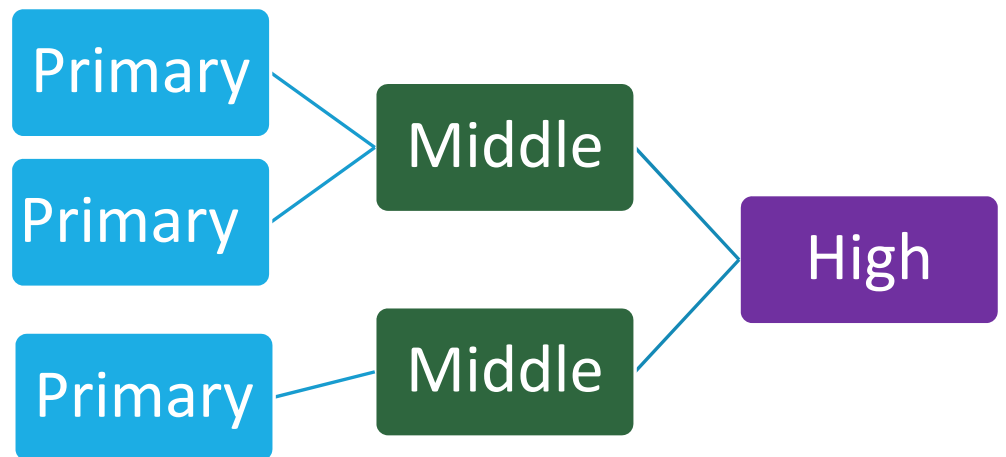
Benefits to local districts

Benefits to states

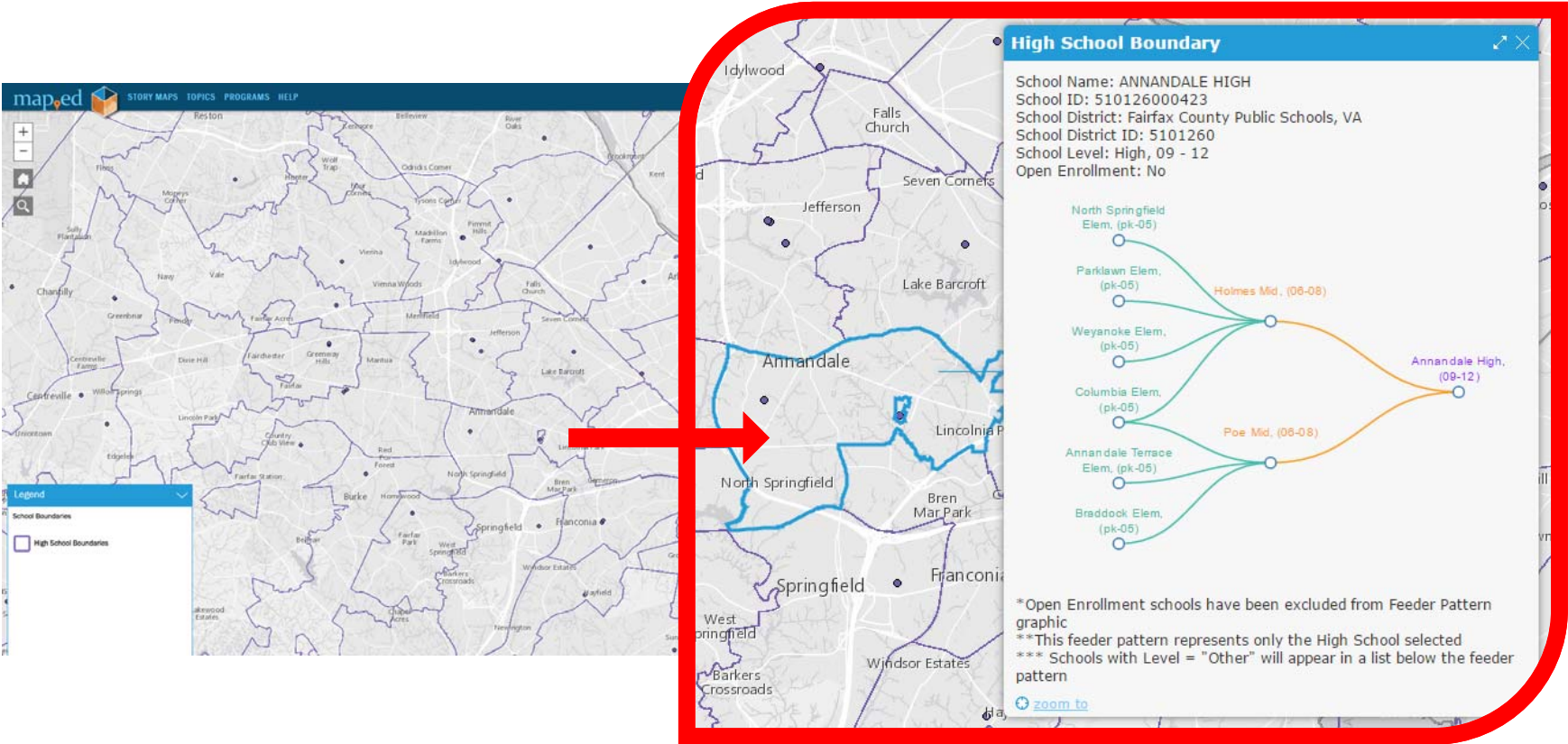
Benefits to social science

What is a Feeder Pattern?

- Matriculation/progression of how students move within their educational system
- Can prove beneficial in helping to understand low-performing schools
- Does not include open enrollment schools



Feeder Pattern Example



High School Feeder Pattern within PopUp



- Provides geographic context to Census, NCES, and ED datasets.
- Allows users to quickly explore information at local and national levels.
- Allows users at all experience levels to view education data in a map.

Slide 12

AC9

Link to the website? Is that possible?

Andrea Conver, 5/2/2016

Getting the Data

SABS

IES NCES National Center for Education Statistics

Search Go

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For More Information
Please contact [Tai Phan](mailto:tai.phan@ed.gov), Program Director, School District Demographics System, at tai.phan@ed.gov.

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Datasets

Year	Shapefile	Documentation
Public-Use: SY 2013-14 Single file	ZIP (543 MB)	PDF (220 KB)
Public-Use: SY 2013-14 by School Level	ZIP (671 MB)	
Supplemental Data Sets:		
Public-Use: SY 2010-11*	ZIP (237 MB)	
Public-Use: SY 2009-10**	ZIP (320 MB)	

*A sample school boundary survey of 600 districts conducted by NCES for the 2010-2011 school year.

**A sample survey over 500 district collected by the School Attendance Boundary Information Systems (SABINS) project. More information can be found at www.sabinsdata.org

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Links
[View SABS in MapED](#)
[Frequently Asked Questions](#)
[Census School District Collection](#)
[SABINS](#)

<http://nces.ed.gov/programs/sabs/>

MapEd

SDDS STORY MAPS TOPICS PROGRAMS MAP VIEWERS HELP

map.ed

Educational Attainment Comparison of School Districts and the Nation
Compare school districts to the nation for ages 25 years and over in three levels of educational attainment: high school graduate (or equivalent) or higher, bachelor's degree or higher, and graduate or professional degree.

Assessment Math Reading
Demographic Age Language Race Ancestry Place of Birth Sex
Economic Income Poverty
Employment Commuting Status Occupation
Housing Costs Rent Structure Mortgage Residence Value
Social Citizenship Family Veteran Education Household

SABS
School Attendance Boundary Survey
Info Map

NCES Locales
Info Map

ACS
American Community Survey and District Spatial Tabulations
Info Map

CCD
Common Core of Data
Info Map

IPEDS
Integrated Postsecondary Education Data System
Info Map

NAEP
National Assessment of Educational Progress
Info Map

PSS
Private School Universe Survey
Info Map

<http://nces.ed.gov/programs/maped/>

Looking Ahead for SABS

- R&D to develop summary file of 2013-2014 feeder data (Fall/Winter 2016)
- Process, edit, and complete 2015-2016 boundary collection (Summer 2016-Spring 2017)
- Release 2015-2016 boundaries and supplemental research files (Summer 2017)
- Begin 2017-2018 boundary collection (Fall 2017)
- Additional R&D projects throughout 2017.

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