

Where to find data

Find data through Google

- Google has a bunch of advanced functions that can help you find data and/or documents quickly.
- Search for specific phrases with quotes “”
 - Example: **“new york population”**
- Exclude search words with a hyphen -
 - Example: **“new york population” -city**
- Search for something either/or with OR
 - Example: **budget OR appropriations**
- Find websites that are similar to others by using related:
 - Example: **related:propublica.org**

Find data through Google

- Search only within a certain domain by using site:
 - Example: **site:propublica.org**; **site:nyc.gov**
- Search for a specific file type by using filetype:
 - Example: filetype:pdf
 - Other useful filetypes:
 - filetype:ppt (PowerPoint)
 - filetype:xls (pre-Excel 2007)
 - filetype:xls (post-Excel 2007)
 - **Note: check for both xls andxlsx!**
 - filetype:doc (Word documents)
 - filetype:txt (text files)
 - filetype:csv (comma-delimited text files)

Find data through Google

- You can use this to find data or documents from specific agencies
 - For example, searching **filetype:doc site:nyc.gov** will bring up any Word documents on the New York City government website.
- And you can use the operators we discussed earlier to further drill down your search
 - Example: **subway OR bus filetype:pdf site:nyc.gov** will bring up any PDF on the New York City government website that mentions the word “subway” or “bus.”
- There's plenty more where that came from
 - Find a full list of advanced search operators at https://www.google.com/advanced_search

Getting data from the government

- Your first step: calling the agency
 - Never send out a “blind” records request
- Describe what you’re looking for, or what you’re trying to find
 - Get specific names of database or documents that you want
- Filing a formal records request should be your last resort
 - The easiest route is to ask the agency for the records
 - “Let’s cut down on the paperwork here.”
 - Formal requests take time!

Getting data from the government

- Laws govern the release of data and information to the public
- Federal: Freedom of Information Act (FOIA)
- State: Each state has its own open records law.
 - **Know your state's law!**
 - What's allowable in one state might not be in another.
 - Different states might have different response deadlines.
 - States often have First Amendment coalitions/advocacy groups. Find yours.

Getting data from the government

- For both federal and state records requests, save time and make sure you're requesting documents from the correct agency before filing
- Since you've done your homework, you should have a specific name or description of the document(s)
- Be sure to ask for electronic fulfillment, unless there's a reason you need paper

Getting data from the government

- Some tips on filing a records request:
- Ask that your request be fulfilled on a “rolling basis,” i.e. release the documents as they come
- It never hurts to ask for a fee waiver

Getting data from the government

- Agencies have a deadline to respond to you. Set an alarm or reminder for that date
 - Example: FOIA law says the agency has to send you a response within 20 business days
 - Keep track of requests with a website like [FOIA Machine](#)
- Toe the line between specific and vague
 - Too specific and you might inadvertently exclude some records. Too vague and you run the risk of the agency saying the request is too vast to fulfill
 - This is where your previous phone calls come into play
 - Limit time periods. 5 years of records is easier to fulfill than 50

Source: Jack Gillum, Associated Press, [IRE tipsheet](#). Reprinted with permission from IRE.

Getting data from the government

- If you are charged fees, always negotiate
 - Agencies might overcharge as a denial/stalling tactic
 - Per-page reproduction fee? Don't need it if it's electronic.
 - "It will take \$10,000 for 50 hours to fulfill this request..."
 - How much is that employee getting paid an hour?
- Know your rights
 - Denied? You can (and should) appeal
 - Be polite, but don't take "no" for an answer
 - Public shaming

Don't Miss: [The Breakdown](#) [Terror in Little Saigon](#) [Dollars for Docs](#) [Surgeon Scorecard](#) [Red Cross](#) [Workers' Comp](#)

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Foiled by FOIL: How One City Agency Has Dragged Out a Request for Public Records for Nearly a Year

After eight proposed delivery dates, the Administration for Children's Services still has not provided public records we asked for almost a year ago.

by Joaquin Sapien

ProPublica, April 21, 2016, 2:18 p.m.

1 Comment | Print

Getting data from the government

Pursuant to the Alabama Open Records Law § 36-12-40 et seq., I am requesting the following documents:

The equity/revenue-and-expenses report completed by the athletic department for the National Collegiate Athletic Association for the 2014 fiscal year. This report is a multi-page document that had to be submitted to the NCAA by Jan. 15, 2015. It contains 38 revenue and expense categories, followed by specific breakdowns of each of those categories, by sport and gender. I am requesting the full report, including the detail tables and the Statement of Revenues and Expenses that appear at the end of the report.

PLEASE NOTE: The NCAA report is different than the equity report that is sent to the U.S. Department of Education for Title IX compliance.

Please advise me in advance of the estimated charges associated with fulfilling this request.

In the interest of expediency, and to minimize the research and/or duplication burden on your staff, please send records electronically if possible. If this is not possible, please notify me by phone at 415-323-5830 before sending to the address listed below.

- Cites the law
- Is specific (reporter has done his/her homework)
- Asks for electronic records

Now that you've got 'em...

A note on Socrata

- Many government agencies use Socrata as an online clearinghouse for their data
 - Example: <https://nycopendata.socrata.com/>
- Socrata has limited functionality (sorting/filtering), but it's just as easy to download the data on your own
- Just choose “Export” in the upper right-hand corner of the screen



- A drop-down menu will appear, allowing your pick of data formats (text files, Excel, PDF)

Bust through PDFs with Tabula

- PDFs are terrible files for storing data
- As long as the PDF is machine-readable, online tools like Tabula can help
- Machine-readable means the underlying data in the PDF is still intact

Bust through PDFs with Tabula

- How can you tell?
 - If you can highlight the data in the PDF, you're good to go
 - If you can't highlight it, i.e. it looks like a scanned document or a photo, Tabula can't recognize the data
- If your PDF of data is not machine-readable, you will need OCR (optical character recognition) software to convert into machine-readable data.
 - Or go back to your data source and ask for a machine-readable file

How to load data

Types of data files

- Data can be stored in a myriad of file types
- Text files -- the simplest data storage type. Basically a text document of data
- File type is usually .txt
 - Obviously a 10,000-page document of data isn't useful. We have to separate it somehow
 - Generally two ways to do this

Types of data files

- Check the file name extension (.csv, .txt, etc.)
- Open the file up in a text editor and browse
- Do you have a header row?
- What's separating each field?

sunspots.txt

x

Medicare-National-HCPCS-Aggregate-CY2013.csv

x

ccn-checks.txt

•

1	1749	01	1749.042	96.7	-1.0	-1
2	1749	02	1749.123	104.3	-1.0	-1
3	1749	03	1749.204	116.7	-1.0	-1
4	1749	04	1749.288	92.8	-1.0	-1
5	1749	05	1749.371	141.7	-1.0	-1
6	1749	06	1749.455	139.2	-1.0	-1
7	1749	07	1749.538	158.0	-1.0	-1
8	1749	08	1749.623	110.5	-1.0	-1
9	1749	09	1749.707	126.5	-1.0	-1
10	1749	10	1749.790	125.8	-1.0	-1
11	1749	11	1749.874	264.3	-1.0	-1
12	1749	12	1749.958	142.0	-1.0	-1
13	1750	01	1750.042	122.2	-1.0	-1
14	1750	02	1750.123	126.5	-1.0	-1
15	1750	03	1750.204	148.7	-1.0	-1
16	1750	04	1750.288	147.2	-1.0	-1
17	1750	05	1750.371	150.0	-1.0	-1
18	1750	06	1750.455	166.7	-1.0	-1
19	1750	07	1750.538	142.3	-1.0	-1
20	1750	08	1750.623	171.7	-1.0	-1
21	1750	09	1750.707	152.0	-1.0	-1
22	1750	10	1750.790	109.5	-1.0	-1
23	1750	11	1750.874	105.5	-1.0	-1
24	1750	12	1750.958	125.7	-1.0	-1
25	1751	01	1751.042	116.7	-1.0	-1
26	1751	02	1751.123	72.5	-1.0	-1
27	1751	03	1751.204	75.5	-1.0	-1
28	1751	04	1751.288	94.0	-1.0	-1
29	1751	05	1751.371	101.2	-1.0	-1
30	1751	06	1751.455	84.5	-1.0	-1
31	1751	07	1751.538	110.5	-1.0	-1
32	1751	08	1751.623	99.7	-1.0	-1
33	1751	09	1751.707	39.2	-1.0	-1
34	1751	10	1751.790	38.7	-1.0	-1
35	1751	11	1751.874	47.5	-1.0	-1
36	1751	12	1751.958	73.3	-1.0	-1
37	1752	01	1752.042	58.3	-1.0	-1
38	1752	02	1752.124	83.3	-1.0	-1
39	1752	03	1752.206	118.3	-1.0	-1
40	1752	04	1752.290	98.8	-1.0	-1
41	1752	05	1752.373	99.5	-1.0	-1
42	1752	06	1752.456	66.0	-1.0	-1
43	1752	07	1752.540	130.7	-1.0	-1
44	1752	08	1752.624	48.8	-1.0	-1
45	1752	09	1752.708	45.2	-1.0	-1
46	1752	10	1752.791	77.7	-1.0	-1
47	1752	11	1752.874	62.7	-1.0	-1
48	1752	12	1752.958	66.7	-1.0	-1
49	1753	01	1753.042	73.3	-1.0	-1
50	1753	02	1753.123	53.3	-1.0	-1

Types of data files

- Fixed width
- You must manually put breaks in the data to tell your computer where a new field ends and another begins
- If you have a fixed width file, make sure your source gives you a guide or schema that tells you where to put the breaks. Don't guess!
 - [Example](#)

Types of data files

- Delimited -- the data fields are separated by a delimiter (often punctuation) that tells our computer where a new field ends and another begins
 - This is the more common of the two
 - Common delimiters
 - Commas (also known as CSV files, or comma-separated values)
 - Most common delimiter
 - This file type can be .csv instead of .txt
 - Tabs
 - Pipes (|)

Types of data files

- But what if you have commas in a field?
 - We use a text qualifier (usually quote marks) to tell the computer to ignore any commas in the field
 - Example: AT&T, Inc. will look like “AT&T, Inc.” in the text file

1 HCPCS Code,HCPCS Description,HCPCS Drug Indicator,Place of Service,Number of Providers,Number of Services,Number of Unique Beneficiary/Provider Interactions,Number of Distinct Medicare Beneficiary/Per Day Services,Average Submitted Charge Amount,Minimum Submitted Charge Amount,Maximum Submitted Charge Amount,Standard Deviation of Submitted Charge Amount,Average Medicare Allowed Amount,Minimum Medicare Allowed Amount,Maximum Medicare Allowed Amount,Standard Deviation of Medicare Allowed Amount,Average Medicare Payment Amount,Minimum Medicare Payment Amount,Maximum Medicare Payment Amount,Standard Deviation of Medicare Payment Amount

2 A0425,"Ground mileage, per statute mile",N,F,10343,140801494.5,6755692,12671918,15.0939463,0.076552661,408.2278481,8.08359992,7.801376767,0.048680084,10.74028436,0.925850875,6.133360523,0.8.593333333,0.726987114

3 A0425,"Ground mileage, per statute mile",N,0,16,3458.5,824,1304,12.51162064,6.87,120,2.463704996,7.093404655,6.87,10.74,0.064904357,5.577900824,5.385714286,8.42,0.05160961

4 A0426,"Ambulance service, advanced life support, non-emergency transport, level 1 (als 1)",N,F,3000,325543.3,282932,317966,791.3980132,7,28437,458.3650808,262.1513796,7,347.09,19.76073411,203.955559,5.556,277.67,15.76392806

5 A0427,"Ambulance service, advanced life support, emergency transport, level 1 (als1-emergency)",N,F,8378,4972850.9,3490463,4936591,923.3939244,90.67,28655.35714,460.1374707,417.5188687,90.67,549.57,32.27543877,324.7140335,0,436.73,25.20193278

6 A0427,"Ambulance service, advanced life support, emergency transport, level 1 (als1-emergency)",N,0,3,480,382,480,589.71875,445,600,6.62807024,421.2877292,397.57,425.45,1.099862878,330.9389375,311.7,340.36,0.977981327

7 A0428,"Ambulance service, basic life support, non-emergency transport, (bls)",N,F,4973,6812508.1,2053295,4844933,537.1170175,95,28454.625,275.6785558,220.8932109,95,289.24,17.11772737,172.9915218,0,228.65,13.46258727

8 A0429,"Ambulance service, basic life support, emergency transport (bls-emergency)",N,F,9722,2731110.7,2014926,2716724,669.2708485,76.87969925,31869.9,288.9939803,358.1562734,75.70225564,462.79,29.92258515,278.1289712,59.70285714,370.23,23.76236904

9 A0429,"Ambulance service, basic life support, emergency transport (bls-emergency)",N,0,3,822,572,822,499.6046594,252.03,500,9.047700509,354.757944,252.03,423,4.301793185,278.7129805,197.59,331.63,3.378427184

10 A0430,"Ambulance service, conventional air services, transport, one way (fixed wing)",N,F,89,10826,10072,10793,14438.15216,700,29903.92308,5062.165345,4190.477053,700,4731.355452,412.6544457,3275.365067,547.9038462,3652.114057,324.2669331

11 A0431,"Ambulance service, conventional air services, transport, one way (rotary wing)",N,F,275,56410,54843,56302,17309.74183,360,27709.38536,4177.623604,4599.301837,360,5510.41,296.4455132,3585.952542,282.24,4356.8975,233.0686692

12 A0432,"Paramedic intercept (pi), rural area, transport furnished by a volunteer ambulance company which is prohibited by state law from billing third party payers",N,F,59,3146,2641,3143,638.4824698,125,1492.44,161.4826762,375.3057629,125,407.41,29.98904694,288.0348601,98,320.7589655,24.78549587

13 A0433,"Advanced life support, level 2 (als 2)",N,F,5459,111967.8,108047,111419,1101.45624,2.06,5141.55,549.7118639,602.5650325,2.06,795.42,53.82315441,468.8264066,1.62,636.34,42.87535231

14 A0434,"Specialty care transport (sct)",N,F,1300,104281.7,79913,97874,1865.055575,40,32209.9,1148.997883,744.0198998,22.12932166,940.05,63.95298324,583.2122558,17.58468271,742.0133333,50.91906057

15 A0435,"Fixed wing air mileage, per statute mile",N,F,89,1980144.2,10020,10729,104.9972547,6.93,278.7912166,50.98005411,11.75196535,6.93,12.48003565,1.019015093,9.202622582,5.433166667,9.984006024,0.805605927

16 A0436,"Rotary wing air mileage, per statute mile",N,F,272,3322854,54437,55885,186.5635308,33.32,281.8598527,56.57891524,31.5708137,22.20998926,33.32000599,1.813376021,24.65698949,16.025,26.656,1.410686318

17 A0999,Unlisted ambulance service,N,F,486,3678.2,2767,3396,698.2032162,12,20283.27,495.3732378,357.4373144,7.089705882,3286.46,127.2913899,280.9220189,5.555,2576.59,100.0887829

18 A4212,Non-coring needle or stylet with or without catheter,N,0,4,19,18,19,6.236842105,5,17,2.966339322,0.405263158,0.01,6.5,1.454431951,0.324736842,0.01,5.2,1.162530672

19 A4215,"Needle, sterile, any size, each",N,0,22,182,121,137,6.50967033,0.18,80,8.595171502,0.037417582,0.01,5,0.368865846,0.031153846,0.008194444,4,0.295003223

Types of data fields

- Just like there are different types of data files, there are different types of data fields, and how you upload them can make a huge difference
- Text/characters
 - Short, alphanumeric values. Things you aren't going to need to calculate
 - Names, addresses, descriptions
 - Zip codes -- they're numbers but we won't ever need to add them together
- Numeric/decimals
 - Numeric values. Things we will want to calculate
 - Counts, sums, dollar amounts

Types of data fields

- Dates/times
 - Stating the obvious. If you have a date or time, selecting this option should make it easier to calculate date/time differences in Excel/Google Sheets
- Important! Text vs. numeric will affect sorting order

Types of data fields

- Don't just double-click your data file to open it!
- Excel thinks it's being helpful by automatically uploading your data and guessing at the data types
 - It's almost always wrong.

Types of data fields

- This can cause trouble like dropping leading zeroes
 - Example: New England zip codes.
 - They almost always start with zero, i.e. 02901 (a zip in Providence, Rhode Island).
 - Unless you specifically choose text for a zip code field, Excel assumes it's numeric and “helpfully” drops that leading zero.
 - Thus, 02901 becomes 2901 and can cause problems down the line.
- It will also unhelpfully reformat your number to a date!
 - Example: Say there's a value in your data that is 11-53
 - Excel assumes this is a date (November 1953) and uploads it as 11/1/1953 or Nov-53.