# Tracking How Federal Health Cuts Impact Your Communities

2025 National Fellowship
USC ANNENBERG
CENTER FOR HEALTH JOURNALISM



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# Backing up every CDC dataset

#### Deletion of data on CDC's site

Total number of results available for download on data.cdc.gov

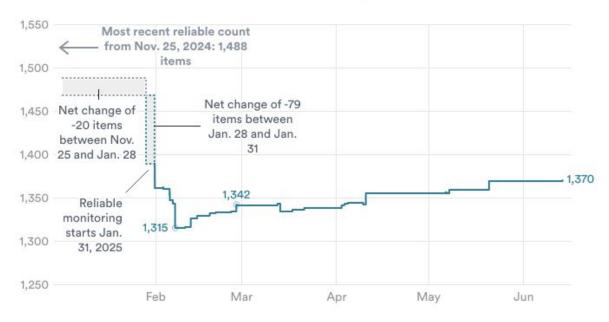


Chart: J. Emory Parker/STAT . Source: STAT Tracking of CDC APIs

Date ▼	Change	Name	ID
2025-06-13 12:30:33	Added	hcp_influenza	89×6-rgq5
2025-05-20 15:19:07	Added	DASH GSHS - No Fast Food (2015)	4bif-w52v
2025-05-20 15:19:07	Added	DASH YRBSS - Did not participate in 60 minutes of activity 1x/weekly (MS)	8u74-z25n
2025-05-20 15:19:07	Added	DASH YRBSS - Physical Fight (MS)	dr7j-7p7w
2025-05-20 13:21:14	Added	DASH YRBSS - Students who are Currently Sexually Active (HS)	5dm2-74uk
2025-05-20 13:21:14	Added	DASH - Youth Risk Behavior Surveillance System (YRBSS): Middle School	k5bc-k3g8
2025-05-20 13:21:14	Added	DASH - Global School-based Student Health Survey (GSHS)	pxpe-pgrg
2025-05-20 13:21:14	Added	DASH - Youth Risk Behavior Surveillance System (YRBSS): High School – Including Sexual Orientation	q6p7-56au

Get the data

# Tracking changes as they happen

Row		Topic	Data_Value		StratificationCategory1	Stratification1	StratificationCategory2	Stratification2
1	***	Heart Disease Mortality	182.4	***	Gender Sex	Overall	Race/Ethnicity	Overall
2	***	Heart Disease Mortality	172.6	***	Gender Sex	Overall	Race/Ethnicity	Overall
3		Heart Disease Mortality	255.6		<del>Gender</del> Sex	Overall	Race/Ethnicity	Overall
4	***	Heart Disease Mortality	343.4		<del>Gender</del> Sex	Overall	Race/Ethnicity	Overall
5		Heart Disease Mortality			Gender Sex	Overall	Race/Ethnicity	Overall
6		Heart Disease Mortality	218.6		<del>Gender</del> Sex	Overall	Race/Ethnicity	Overall
				***	***	ene	***	***
59091		Heart Disease Mortality			<b>Gender</b> Sex	Male	Race/Ethnicity	Asian and Pacific Islander
59092	***	Heart Disease Mortality			Gender Sex	Female	Race/Ethnicity	Asian and Pacific Islander
59093		Heart Disease Mortality	338.4	***	<del>Gender</del> Sex	Overall	Race/Ethnicity	American Indian and Alaskan Native
59094		Heart Disease Mortality	432.2	***	<del>Gender</del> Sex	Male	Race/Ethnicity	American Indian and Alaskan Native
59095		Heart Disease Mortality			<del>Gender</del> Sex	Female	Race/Ethnicity	American Indian and Alaskan Native

#### Backup copies of data that's been removed from data.cdc.gov

Q Search in table

Page 1 of 6 >

id	Name A	Mentions "gender"	Download	File size	File type
vtwh-8kxg	Adult Tobacco Consumption In The U. S. Glossary And Methodology		Download	0.07 MB	xls
hfr9-rurv	Alzheimer's Disease and Healthy Aging Data	<b>A</b>	Download	120.26 MB	csv
xs7u-t3bn	Alzheimer's Disease and Healthy Aging Indicators: Caregiving	<u> </u>	Download	10.21 MB	csv
jhd5-u276	Alzheimer's Disease and Healthy Aging Indicators: Cognitive Decline	<u> </u>	Download	10.80 MB	csv
thir-stei	American Community Survey (ACS) – Vision and Eye Health Surveillance	<u> </u>	Download	334.65 MB	csv
4ht3-nbmd	Archived Cumulative Data: Percent of pregnant people aged 18-49 years receiving at least one dose of a COVID-19 vaccine during pregnancy overall, by race/ethnicity, and date reported to CDC-Vaccine Safety Datalink, <i>United States   December 20, 2020 – Jan</i>		Download	0.04 MB	csv
fpp2-pp25	Behavioral Risk Factor Data: Tobacco Use (2010 And Prior)		Download	9.80 MB	csv
wsas-xwh5	Behavioral Risk Factor Data: Tobacco Use (2011 to present)		Download	11.80 MB	csv
ikwk-8git	Behavioral Risk Factor Surveillance System (BRFSS) - National Cardiovascular Disease Surveillance Data	<u> </u>	Download	54.57 MB	csv
iuq5-y9ct	Behavioral Risk Factor Surveillance System (BRFSS) Historical Questions	<u> </u>	Download	1.99 MB	csv

# Tracking deficits in NIH grant funding

#### NIH grant awards are lagging behind previous years

Cumulative amount of new grants awarded during the first 110 days of the year

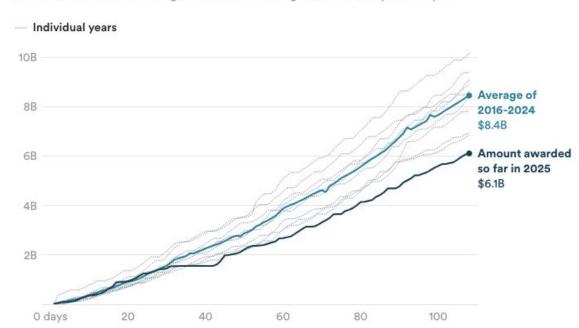


Chart: J. Emory Parker/STAT . Source: STAT Analysis of RePORTER data

#### NIH institutes and centers with largest funding declines

Cumulative amount of new NIH grants awarded in the first 100 days of 2025 compared with the average for the same period from 2016-2024.

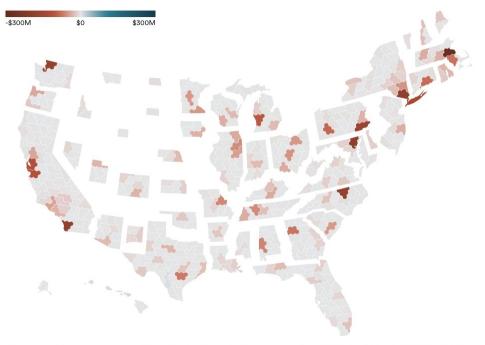


Chart: J. Emory Parker/STAT • Source: STAT Analysis of RePORTER data



#### Big cities and university towns lost the most from decline in grant awards

Change in the cumulative amount of new NIH grants awarded by congressional district in the first 110 days of 2025 compared with the average for the same period from 2016-2024.



Note: In this image the size of states has been scaled by population to make every district the same size. The shapes of districts have also been simplified for legibility. This exaggerates the geographic size of cities to enhance visibility. The position of districts may not match their real-world locations.

Map: J. Emory Parker/STAT = Source: STAT Analysis of RePORTER data

#### 10 institutions that had the largest drop in new NIH grants

Cumulative amount of new NIH grants awarded to research institutions in first 100 days of 2025 compared with the median for the same period in 2016-2024. It does not include grants that were terminated or frozen.

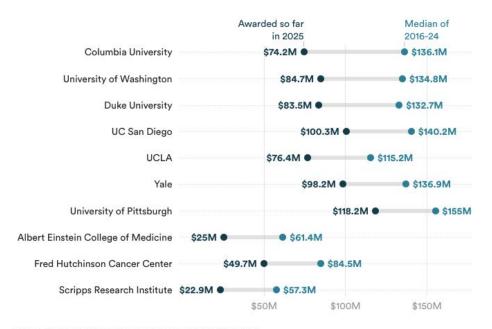


Chart: J. Emory Parker/STAT . Source: STAT Analysis of RePORTER data



# Funding is drying up, and so are career options. Some budding scientists are debating abandoning their research.

Across New England and the country, thousands of budding scientists have awoken to a stark new reality

By Chris Serres and J. Emory Parker Globe Staff and STAT, Updated May 27, 2025, 9:58 a.m.





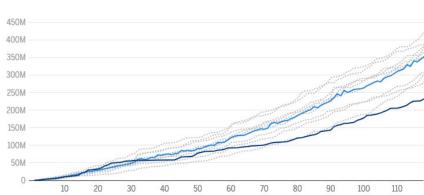




#### \$177 million less awarded for early career grants so far this year

Cumulative dollar values of new grants awarded during the first 128 days of the year





Early career grants have activity codes F30, F31, F32, T32, T34, T35, TL1, K01, K08, K12, K22, K23, K24, K43 and K99.

Chart: J. Emory Parker/STAT \* Source: Analysis of RePORTER data

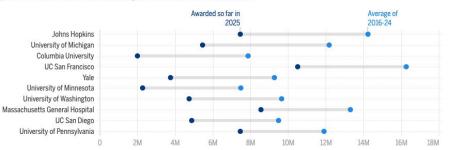
#### 10 institutions that had the largest drop in early career grants

2016-2024

So far in 2025

249M

Cumulative amount of new NIH grants awarded to research institutions in first 128 days of 2025 compared with the median for the same period in 2016-2024. It does not include grants that were terminated or frozen.



Early career grants have activity codes F30, F31, F32, T32, T34, T35, TL1, K01, K08, K12, K22, K23, K24, K43 and K99.

Chart: J, Emory Parker/STAT • Source: Analysis of RePORTER data

# Results of early career analysis



# Tabula can turn PDFs into spreadsheets



Get it at tabula.technology

Runs entirely on your machine

Only works for text-based pdfs, will not work with scanned pdfs

HHS cancelled grants PDF

Shortened: https://tinyurl.com/25efmb8z

Full version:

https://taggs.hhs.gov/Content/Data/HHS\_ Grants\_Terminated.pdf

#### Tabula



Tabula is a tool for liberating data tables locked inside PDF files.

View the Project on GitHub tabulapdf/tabula



Current Version: 1.2.1

Other Versions: pre-releases & archives

Need help? Open an issue on Github.

**Donate:** Help support this project by backing us on OpenCollective.

We'd love to hear from you! Say hi on Twitter at @TabulaPDF

#### Latest Version: Tabula 1.2.1 June 4. 2018

Tabula 1.2.1 fixes several bugs in the user interface and processing backend. (You can read about all the changes in the release notes.)

Download Tabula below, or on the release notes page.

Special thanks to our OpenCollective backers for supporting our work on Tabula; if you find Tabula useful in your work, please consider a one-time or monthly donation.

#### How Can Tabula Help Me?

If you've ever tried to do anything with data provided to you in PDFs, you know how painful it is — there's no easy way to copy-and-paste rows of data out of PDF files. Tabula allows you to extract that data into a CSV or Microsoft Excel spreadsheet using a simple, easy-to-use interface, Tabula works on Mac, Windows and Linux.

#### Who Uses Tabula?

Tabula is used to power investigative reporting at news organizations of all sizes, including ProPublica, The Times of London, Foreign Policy, La Nación (Argentina), The New York Times and the St. Paul (MN) Pioneer Press.

 $Grass roots \ organizations \ like \ School Cuts. org \ rely \ on \ Tabula \ to \ turn \ clunky \ documents into \ human-friendly \ public \ resources.$ 

And researchers of all kinds use Tabula to turn PDF reports into Excel spreadsheets, CSVs, and JSON files for use in analysis and database applications.

# Let's give Tabula a try...

Install and run Tabula. It will open in a browser window.

The main screen will allow you to import new PDFs and access PDFs you've imported in the past.

Select "Browse..." to locate a PDF on your system.

We'll be using the shortened HHS\_Grants\_Terminated.pdf file for this example.

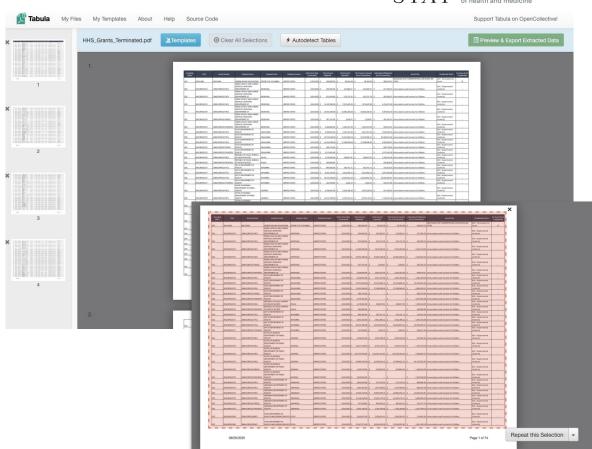
Then select "Import" to begin the process of extracting data.



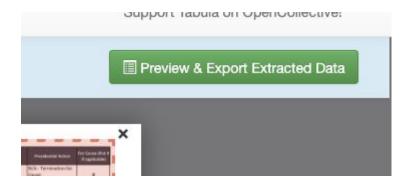
Draw a box around the table on the first page of the document.

If the document contains similar tables on every page, like this example, select "Repeat this Selection" to automatically copy the box to every page.

Manually adjust the boxes on each page, if necessary.



Once you have all the tables selecting within red boxes, select "Preview & Export Extracted Data" to proceed to the next step.

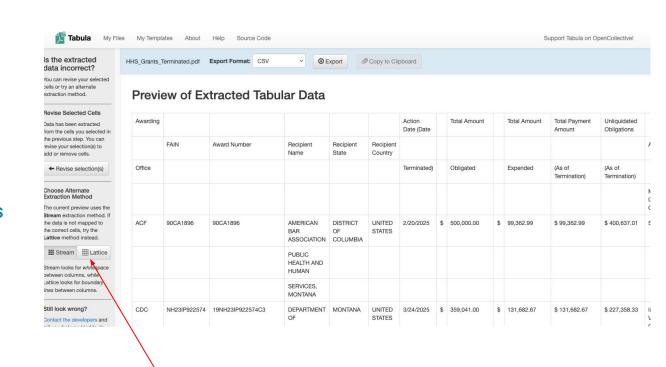


You'll get a preview of what the extracted data will look like.

In this case, the preview doesn't look right.

In this document, the table is made up of lines so we need to change the extraction method to "lattice".

Use "stream" when there aren't lines in the document.

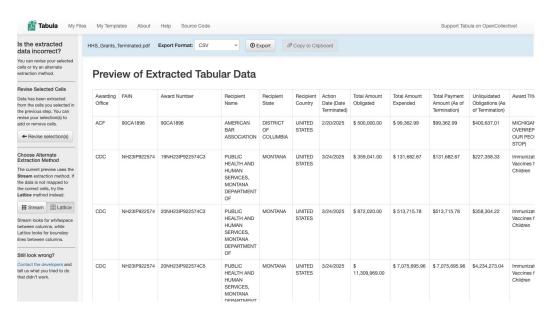


That looks better!

All that's left is to select an export format (CSV should be fine for most cases) and select "Export".

Tabula will then save a .csv file wherever your browser usually saves downloads.

The CSV file can be opened in Excel or Google Sheets.





# NIH RePORTER is useful for looking tracking grants



### RePORTER Basics

https://reporter.nih.gov/

Covers grants from NIH

Website is useful for searching for grants, but for more comprehensive analysis you'll need to use the API and have some code knowledge



# https://github.com/dhoconno/reporter

This resource provides real-time analysis similar to STAT's

File and code here are open source and you're able to freely use and redistribute them

**Quick links** 

#### All terminated grants:

https://raw.githubusercontent.com/dhoconno/reporter/refs/heads/main/data/processed/taggs/hhs\_grants\_terminated.csv

#### All grants:

https://github.com/dhoconno/reporter/raw/refs/heads/main/data/processed/reporter/nih\_awards\_all.csv.zst

#### All meetings in federal register:

https://github.com/dhoconno/reporter/raw/refs/heads/main/data/processed/federal\_register/nih\_fr\_meetings\_all.c sv.zst

Note: the .zst files are compressed.

# Uncompressing ZST files

#### On Mac

Open the Terminal application.

Navigate to the location where of the file.

Example: if it's in your "Downloads" folder

Type:cd ~/Downloads

#### Use the UNZSTD command

Example: to uncompress the file "nih\_awards\_all.csv.zst"

Type:unzstd nih\_awards\_all.csv.zst

This will create a new file "nih\_awards\_all.csv" in your Downloads folder

# NIH and NSF cancelled grant trackers



# Where to access Scott Delaney's data

#### **NIH** data

https://grant-watch.us/nih-data.html

Click "download all as CSV" to follow along

Access my completed Google Sheet here:

https://docs.google.com/spreadsheets/d/

1G6Y581pqxLy-hEgFUc2HPWvUCc12dbbUG

OltheRdSkQ/edit?usp=sharing

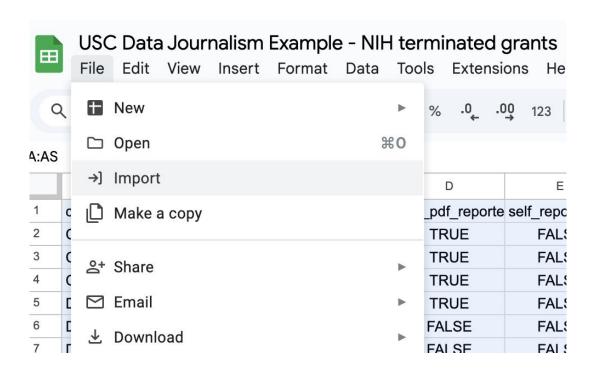
# **NSF** data

https://grant-watch.us/nsf-data.

<u>html</u>

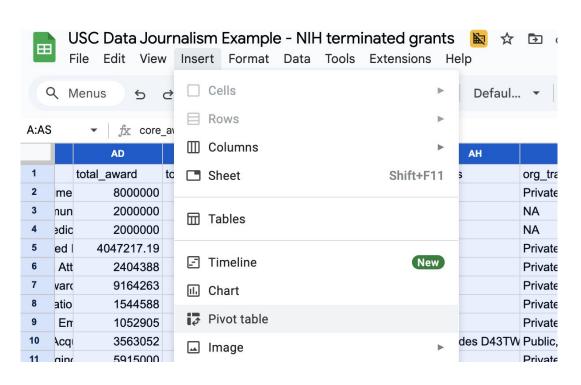
Let's try some quick analysis of NIH terminations...

# Getting started



Open Google Sheets and import the NIH terminated grants csv file from the previous slide.

# Create a pivot table

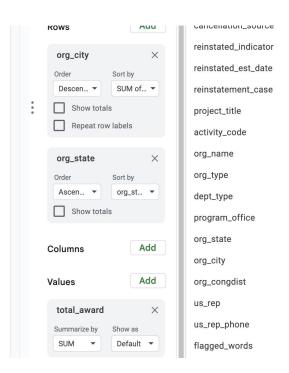


Select all columns in the spreadsheet.

Select Insert > Pivot table

Select Insert to New sheet and click Create

# Let's get the total \$ by city and state



Drag org\_city and org\_state into the Rows area.

Drag total\_award into the Values area.

Set "Summarize by" to SUM.

Uncheck "Show totals" and "Repeat row labels" if checked.

Under org\_city, set "Order" to Descending and "Sort by" to "SUM of total\_award".

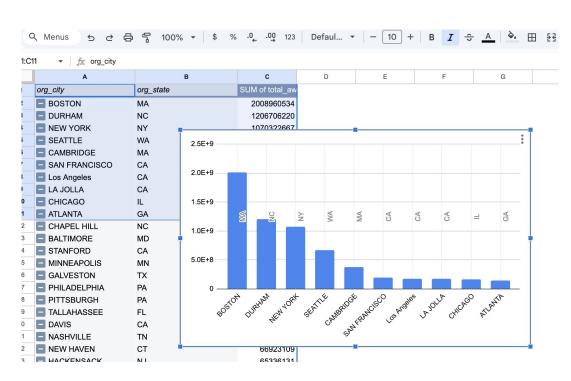
# What are the most impacted cities?

1	org_city	org_state	SUM of total_aw
2	BOSTON	MA	2008960534
3	DURHAM	NC	1206706220
4	NEW YORK	NY	1070322667
5	SEATTLE	WA	673106722.3
6	CAMBRIDGE	MA	377649851.4
7	SAN FRANCISCO	CA	196858417.9
8	Los Angeles	CA	176116814.8
9	<b>L</b> A JOLLA	CA	173505245.2
10	CHICAGO	IL	164050717.7
11	ATLANTA	GA	144354675
12	CHAPEL HILL	NC	135286849
13	BALTIMORE	MD	127478894
14	STANFORD	CA	118276300.7
15	MINNEAPOLIS	MN	113511057

You should now have a table that looks like this.

What other variables should we look at?

# Let's make a quick chart



Highlight the top 10 cities and select Insert > Chart.

You should now have a chart that looks like this.

Play with the settings in the "Chart editor" panel to the right.

How can we improve this chart?

## What next?

Hint: we could replicate when we just did with the csv of all grants we uncompressed earlier.

This would tell us about areas that have historically benefitted from grants.

Could we then compare our analysis of historical grant data with our analysis of terminated grants?



## Some additional resources

Using Google Cloud with Google Sheets (when your dataset is very big!)

https://docs.google.com/presentation/d/l KSuvk23sUVTqH6fpe367\_M3W2LGAyJrMro qLZyMdlLc/edit?slide=id.p#slide=id.p

Using IF and VLOOKUP functions in Google Sheets

https://resources.ire.org/tipsheets/20250 309-30389.pdf Advanced pdf techniques (requires command line)

https://github.com/chadday/nicar\_ocr

https://github.com/jsvine/nicar-2025-pdf plumber-workshop

Introduction to the command line

https://github.com/ghing/nicar-2025-com mand-line



# Advanced resources for the adventurous

#### Python

#### Simple Python for Spreadsheets

https://docs.google.com/document/d/lhz yXER2Cs7OY4j8NOA47RAoXQOzATBCjEfCr DtHOPRI/edit?tab=t.0#heading=h.l3xoyau 58q91

#### Intro to PANDAS

https://docs.google.com/document/d/luo FrbpwmQP4-Kddpa4VErdWDz2Pqz-NPnca 9NvFm9OE/edit?tab=t.0#heading=h.93s6h ba7j4u2

#### R

#### Introduction to R and Rstudio

https://github.com/ireapps/teaching-guid e-R123

#### Introduction to R walkthrough

https://github.com/ireapps/nicar25-introto-R