Finding valuable scientific, technical, and business information by using technical reports databases

FDLP Webinar

April 14, 2021

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What is a technical report?

- Library of Congress –
  - https://www.loc.gov/rr/scitech/trs/trswhatare.html
  - The names given to these publications series vary and include such generic categories as "technical reports," "working papers," "preprints," "research memoranda," "internal notes," "occasional papers," "discussion papers," and "gray (or grey) literature.
  - The format provides rapid communication of new research results.
  - The reports are disseminated to a targeted audience.

Note: Technical report databases also contain photos, conference papers, transcripts of speeches, and abstracts of journal articles by researchers; we're including those too.

What is a technical report? – cont'd.

- A technical report is a document written by a researcher detailing the results of a project and submitted to the sponsor of that project.

- Many of Georgia Tech's reports are government-sponsored and are on microfiche. DOE, NASA and the Department of Defense are top sponsors. A number of U.S. Government sponsors now make technical reports available full image via the Internet.

- University research centers and state agencies also issue technical reports.

What is a technical report? – cont'd.

They tend to possess the following characteristics:

- May be published before the corresponding journal literature
- Content may be more detailed than the corresponding journal literature, although there may be less background information since the sponsor already knows it
- Technical reports are usually not peer reviewed unless the report is separately published as journal literature
- Classified and "export controlled" reports have restricted access.
- Obscure acronyms and codes are frequently used.

Online Sources for Full-Text of Reports

This, and the following 7 slides – list databases as a convenient reference

- **Agency databases** – NTRL [NTIS]; science.gov ; NTRS [NASA] ; TRID ; DTIC ; ERIC ; DOE; and others
- **Agency websites** (caveat - report is often *not* permanently retained)
- **HathiTrust**
- **Federal contractor websites** such as RAND
- **Catalog of U.S. Government Publications** (links to permanent full-text if available)

Multi-agency Databases

- **NTRL**
  - National Technical Reports Library (NTIS – National Technical Information Service)
  - Historical and current federally-funded technical reports
  - Over 3 million titles with links to over 800,00 full text (in PDF)
  - Example

  https://ntrl.ntis.gov/

- **Science.gov**
  - Over 60 databases from 15 federal agencies
  - Example

  http://www.science.gov

Agency Databases

- **DTIC: Public DoD Technical Reports**
  - Technical Reports by organizations funded by the Department of Defense to perform research in a wide variety of industries and disciplines
  - Search box is at the top of the screen –

    Search this site, DoD S&T Reports, and more
  - Can sort by relevance or date and limit records to DoD technical reports
  - Full-text of selected reports, especially of recent reports

  https://discover.dtic.mil/

- **NTRS: NASA Technical Reports Server**
  - Selected full text reports from NASA and its predecessor, NACA
  - Left column - can search by Title, Author etc.
  - Example

  https://ntrs.nasa.gov/

Agency Databases (Cont'd)

- **TRID Online**. The TRIS and ITRD Database
  - Transport Research International Documentation. Produced by Transportation Research Board. Selected full text report links
  - Example

  https://trid.trb.org

- **Department of Energy (DOE)**
  - Dept. of Energy, Office of Scientific and Technical Information (OSTI).
  - Use Advanced Search (drop down menu, right of search box) to refine by Title, Author, More Options (Resource Type technical report etc.). FAQ (tips)
  - Example

  https://www.osti.gov/

- **Agricola**
  - National Agricultural Library, Dept. of Agriculture. Selected records linked to full-text documents online. Advanced Search

  https://agricola.nal.usda.gov/

Agency Databases (Continued)

- **NSCEP**
  - National Service Center for Environmental Publications. EPA
  - Consumer focus, but selected reports are available
  - Note: some materials, for example "Climate Change Indicators of the United States", a biennial, have not been updated the past few years
  - Example

  https://www.epa.gov/nscep

- **United States Geological Survey**
  - Selected reports in USGS Publications Warehouse
  - Example

  http://pubs.er.usgs.gov/

- **ERIC**
  - Dept. of Education. Institute of Education Sciences. Selected full-text

  https://eric.ed.gov/

Additional Agencies

- **Congressional Research Service (CRS)** Example
  https://crsreports.congress.gov

- **Congressional Budget Office (CBO)** Example
  https://www.cbo.gov/

- **Government Accountability Office (GAO)** Example
  https://www.gao.gov/

- **Catalog of U.S. Government Publications**
  - Links to permanent full-text if available

  https://catalog.gpo.gov

Other Sources for Digitized Reports

- **HathiTrust Digital Library**
  - 1.4 million government documents from 40 institutions. Selected technical reports
  - Example

  https://www.hathitrust.org/

- **TRAIL -** Technical Reports Archive & Image Library
  - 86,000 digitized reports
  - Example

  http://technicalreports.org/

Other Sources for Digitized Reports – cont'd.

- **RAND Corporation** [Note: the url is -- .org, NOT .com (different co.)]
  http://www.rand.org/

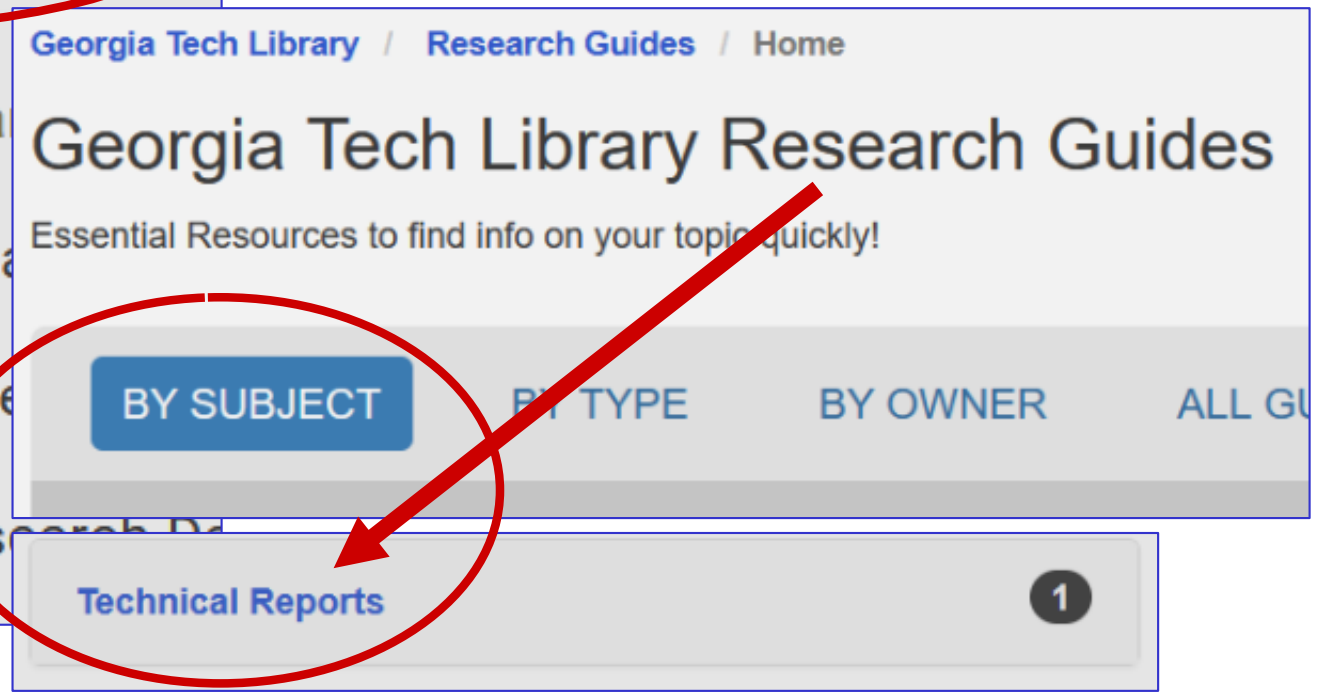
- **Internet Archive**
  https://archive.org/

- **USA.gov** [Note: also includes many state-level documents]
  https://www.usa.gov/

- **University repositories** [Note the copyright is with each title, as authors are not federal employees]

More information

Georgia Tech Library Technical Report Guide
"**Research Help Support**" (top row)
"**Research Guides**"
"**Technical Reports**"
https://libguides.gatech.edu/techreports



Georgia Tech Library

Georgia Tech Library
Technical Reports Research Guide
https://libguides.gatech.edu/techreports

Technical Reports:

Research Guide for Technical Repor

Home | Databases | Full-Text | Indexes | Thesauri | Definition

Technical Reports Research Guide

Technical Reports Databa... NTIS etc.)

Sources of technical reports

- **NTIS.** Search the **NTIS database** to identify technical research reports. GT subscription **NTIS** (ProQuest) database or free NTRL
- **Internet Sources** (**selected full text**)
  Some technical reports are freely available on the Internet, many from the issuing agencies such as Department of Energy (DOE), Department of Defense (DoD), the National Aeronautics and Space Administration (NASA), and the Environmental Protection Agency (EPA). TRAIL Working Groups have digitized selected pre-1975 U.S. reports. NTRL is NTIS's free searchable technical reports database. Georgia Tech students and faculty/staff should use the subscription GT Library NTIS (ProQuest) database for searching technical reports.
- **Microfiche**
  The Georgia Tech Library owns over 2.5 million microfiche technical reports (housed in remote storage).
- **GT Library Catalog**

Technical Reports Databases

https://libguides.gatech.edu/techreports/databases

- **NTIS (National Technical Information Service). Subscription**

GT subscription. 1964 - Citations and abstracts from unclassified government-sponsored research reports from the Departments of Defense, Department of Energy, NASA, EPA, and other federal agencies, and international government departments and other international organizations ProQuest databases. For full text microfiche and electronic technical report over 2,500,000 technical reports (microfiche collection 2nd floor east). Sele /techreports/full-text

- **Advanced Technologies and Aerospace Database. Subscription**

GT subscription. Selected reports. 1962 - Provides bibliographic coverage coverage of reports issued by NASA, other U.S. government agencies, inte

- **DTIC Public Technical Reports** (formerly Public STINET)

Search box - top of screen "Search this site, DoD S&T Reports, and more." unlimited documents, as well as the electronic full-text of selected documen Georgia Tech researchers with the proper security clearances; for further in

- **U.S. Department of Energy database**

Search 3+ million Department of Energy research information results. Selec predecessor agencies discoverable. Can refine by Technical Report and Fu

- **NTRS: NASA Technical Report Server**

1917- Provides access to NASA aerospace information and domestic and i NACA Technical Reports databases and databases from selected space an documents, and preliminary data (with some full-text coverage).

- **NTRL**

National Technical Reports Library (NTRL). The Department of Commerce National Technical Information Service (NTIS) is offering the American public free public access to a searchable online database of federal science and technology reports through their National Technical Reports Library (NTRL). Georgia Tech users should use the subscription NTIS (ProQuest) database to search for technical reports, using NTRL for full text.

- **ERIC (Educational Resources Information Center)** Selected reports

1966- Also available as ProQuest, Ebscohost and FirstSearch subscription databases. ProQuest's subscription ERIC and Education Database can be searched together. ERIC provides access to bibliograph sponsored by the U.S. Department of Education, Institute of Education Sciences (IES).

- **Transportation Research Information Service (TRID** - the TRIS and ITRD Database Online) Selected reports

1960s- (TRID - the TRIS and ITRD Database Online). Transportation Research Board. TRID contains more than 900,0 articles in the field of transportation research. Almost 500 serial titles are regularly scanned and indexed for TRID. Sele Research Information Services (TRIS) Database and the OECD's Joint Transport Research Centre's International Tran

- **National Service**

Environmental Protect

- **Technical Report**

Search selected U.S. arily older reports. The Arizona in collaboratic provide access to fede

List of **selected technical reports databases**

- **U.S. Department of Agriculture National Agricultural Library** (NAL) Online Catalog - Agricola. Search for Book
- **CRS Reports**. Access to research products produced by the Congressional Research Service (CRS) for the United
- **USGS** Library Catalog. Selected reports. U.S. Geological Survey. Advanced Search. Publications Warehouse.
- **Science.gov** (selected reports) U.S. government science information. Selected reports

- **Free** database from NTIS

- **Advanced Search**
- Fields (drop down menu): **Title**, **Author**, Keyword, etc.

- **Help** – tips, such as strings are automatically **stemmed** (searches plural and singular …)

- **NTIS** is also available as a **subscription** database through platforms with **powerful search engines** – ProQuest, Engineering Village, STN. Georgia Tech Library subscribes to ProQuest's NTIS

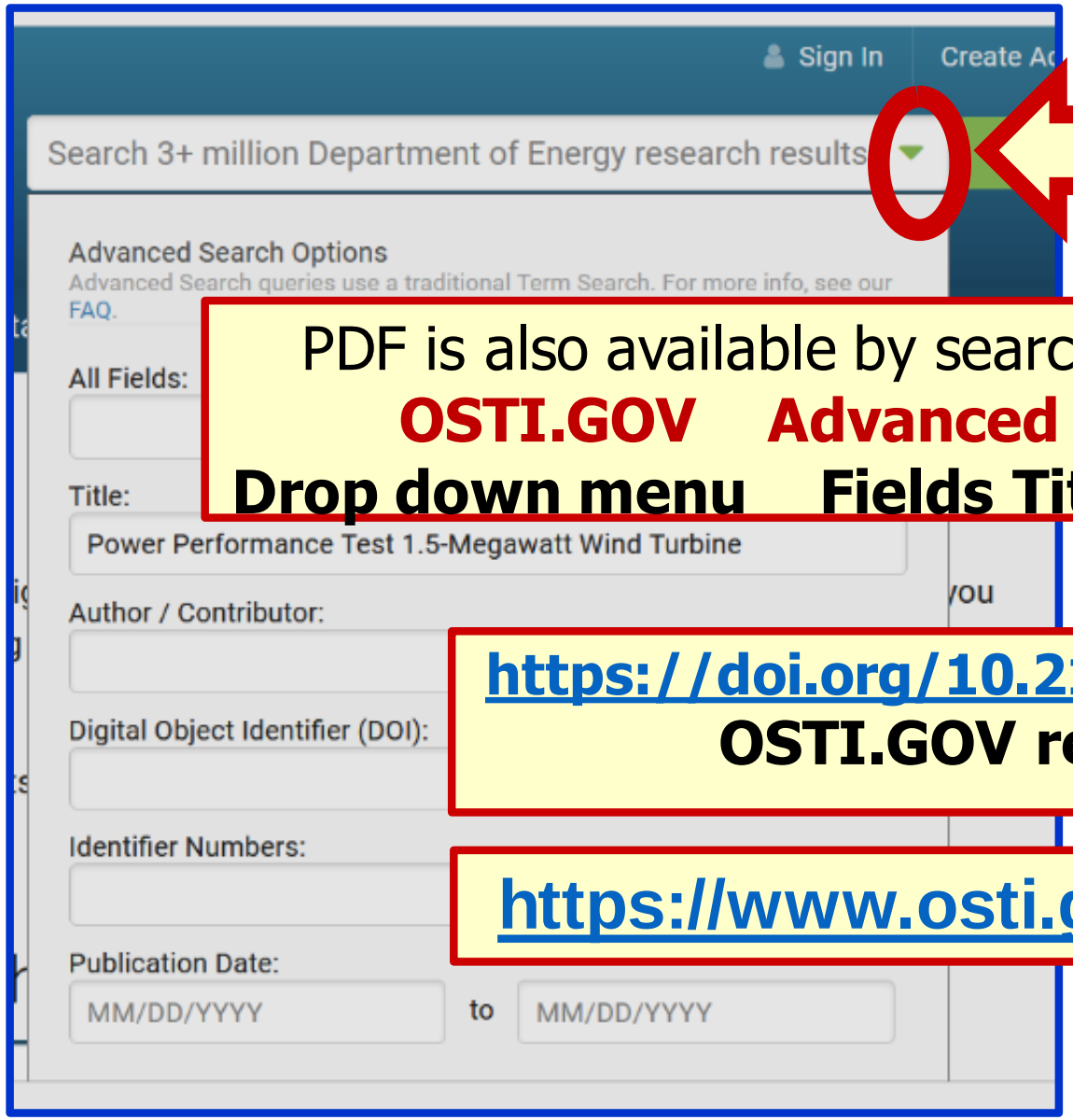
The U.S. Department of Energy (DOE) acquired and installed a 1.5-megawatt (MW) wind turbine at the National Wind Technology Center (NWTC) at the National Renewable Energy Laboratory (NREL). This turbine (hereafter referred to as the DOE 1.5) is envisioned to become an integral part of the research initiatives for the DOE Wind Program…

Publication Date	2015
Personal Author	Mendoza, I.; Hur, J.; Thao, S.; Curtis, A.
Page Count	55

Keywords	• Wind turbine • Commissioning • Testing • National Wind Technology Center
Source Agency	• Department of Energy General

- Snippet of **NTRL abstract** above
- **NTRL record** fields include: **keywords, page count, and agency name**

Power Performance Test Report for the U.S. Department of Energy 1.5-Megawatt Wind Turbine



PDF is also available by searching **DOE's OSTI.GOV Advanced Search**

Drop down menu Fields Title, Author…

https://doi.org/10.2172/1215120

OSTI.GOV record

https://www.osti.gov/

Figure 2. DOE 1.5 at the NWTC. *Photo by Jeroen van Dam, NREL*

https://www.science.gov/

Consider using Advanced Search

Science.gov is governed by the interagency *Science.gov Alliance*. Participating agencies are:

Full Record

Title

"climate change" or "global warming"

Author

Date Range

From Pick Year To Pick Year

Search Clear

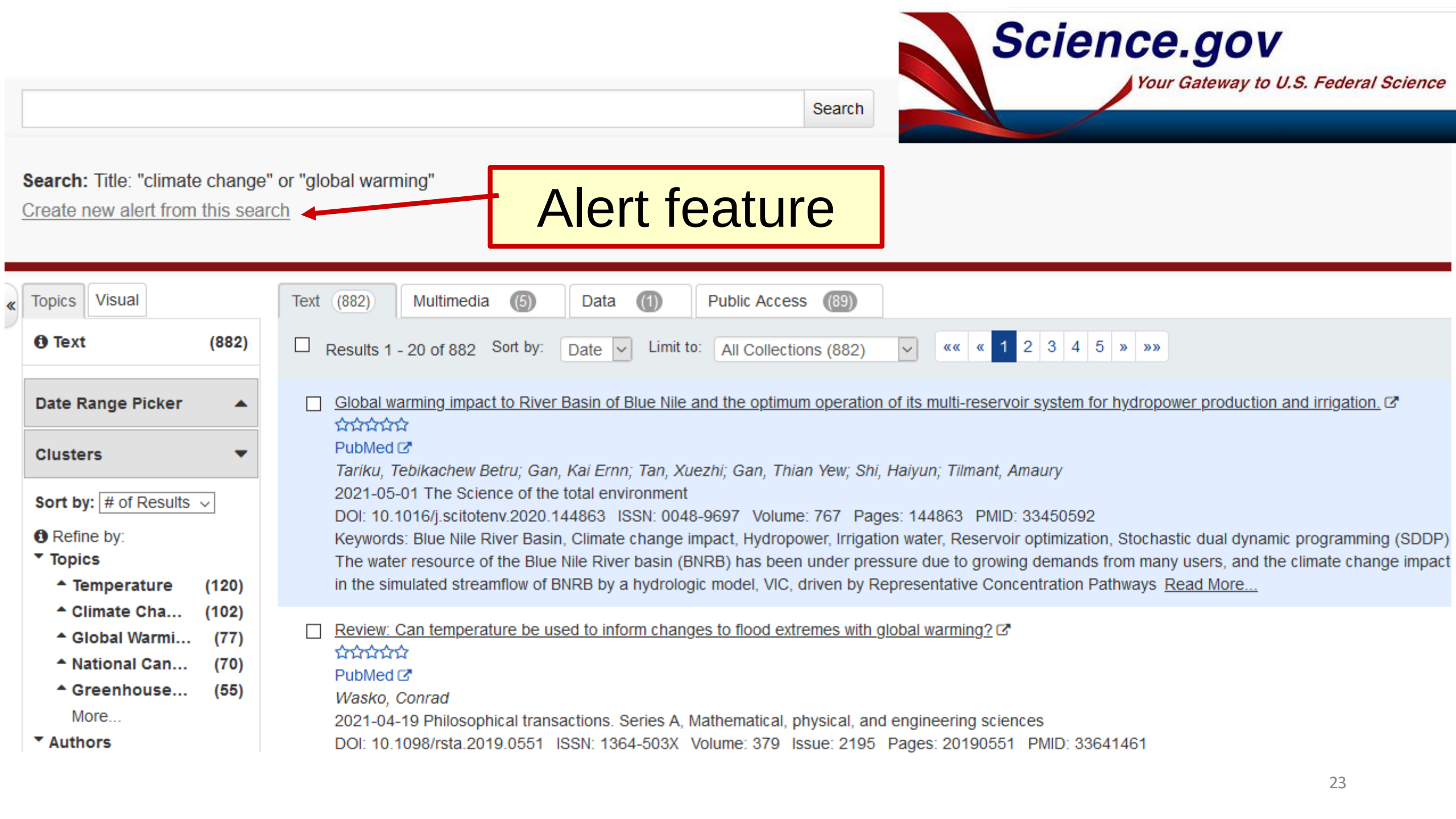
- All Categories
  - Science.gov Websites - Selected Websites
  - Agriculture & Food - Food Safety, Gardening, Pesticides, Veterinary Science
  - Applied Science & Technologies - Biotechnology, Electronics, Engineering, Transport
  - Astronomy & Space - Exploration, Planets, Space Technologies
  - Biology & Nature - Animals & Plants, Ecology, Genetics, Pest Control
  - Earth & Ocean Sciences - Land, Maps, Natural Disasters, Oceans, Weather
  - Energy & Energy Conservation - Energy Use, Fossil Fuel, Solar, Wind
  - Environment & Environmental Quality - Air/Water/Noise Quality, Cleanup, Climate Change

Note: can select subject, or *selected* content from Agency websites

Note: *selected* content from Agency websites

- All Categories
  - **Science.gov Websites - Selected Websites**
    - Science.gov Websites
      Searches an index of over 2100 agency-selected sites
  - **Agriculture & Food - Food Safety, Gardening, Pesticides, Ve**
    - AGRICOLA
      National Agricultural Library citation index including many abstracts
    - PubAg
      Search for Department of Agriculture funded articles
    - USDA-ARS Scientific Manuscript database
      Selected prepublication of recent research results from the Agricultural Research Service
    - USDA-NAL Food and Nutrition Information Center
      Food and human nutrition information and resources
  - **Applied Science & Technologies - Biotechnology, Electronics, Engineering, Transport**
    - DOT National Transportation Integrated Search - ROSA P
      The National Transportation Library (NTL) digital Repository & Open Science Access Portal, known as ROSA P. This public
      more than than 30,000 full-text items related to transportation research.
    - DTIC Science & Technology
      DTIC Technical Reports Collection
    - National Institute of Standards and Technology Data Gateway
      Gateway to databases available through NIST
    - US Patent & Trademark Office Database
      Patent database with fulltext coverage, 2000 to present
  - **Astronomy & Space - Exploration, Planets, Space Technologies**
    - NASA Astrophysics Data System (ADS)
      Abstracts of astronomy, physics, astrophysics, instrumentation and related literature.
    - NASA Technical Reports Server (NTRS)
      Citations and fulltext reports of aerospace documents, articles and conferences
    - NASA Website
      Aeronautics and space resources
  - **Biology & Nature - Animals & Plants, Ecology, Genetics, Pest Control**
    - National Invasive Species Information Center (NISIC)
      Invasive species reference gateway from the National Agricultural Library
  - **Earth & Ocean Sciences - Land, Maps, Natural Disasters, Oceans, Weather**
    - Atmospheric Science Data Center
      NASA earth science data
    - USGS Publications Warehouse
      Fulltext reports and bibliographic records for USGS publications
  - **Energy & Energy Conservation - Energy Use, Fossil Fuel, Solar, Wind**
    - DOE CODE
      DOE-funded software and code
    - DOE Data Explorer
      DOE-funded scientific research data
    - DOE Patents
      Patents resulting from DOE-funded R&D
    - Energy Information Reports, 1993 to present
    - OSTI.GOV
      DOE-funded R&D results including: technical reports, journal articles, data, software, patents, multimedia, and bibliographic

- PubMed
  NLM's bibliographic database of abstracts covering various medical disciplines
- PubMed Central
  NLM's free digital archive of biomedical and life sciences journal literature
- TOXLINE Toxicology Bibliographic Information
  Records for biochemical, pharmacological, physiological and toxicological effects of chemicals
- **Math, Physics & Chemistry - Physical Science Resources**
  - DOE CODE
    DOE-funded software and code
  - DOE Data Explorer
    DOE-funded scientific research data
  - DOE Patents
    Patents resulting from DOE-funded R&D
  - OSTI.GOV
    DOE-funded R&D results including: technical reports, journal articles, data, software, patents, multimedia, and bibliographic records
- **Multimedia - Multimedia sources**
  - DOE ScienceCinema
    DOE R&D multimedia
  - Library of Congress Glass Negatives from the Papers of Wilbur and Orville Wright
    Images of early aviation experiments from Prints & Photographs Online Catalog
  - Library of Congress Historic Buildings Survey, Historic Engineering Record, Historic Landscapes Survey
    Collection of science and technology-related images from Prints & Photographs Online Catalog
  - MedlinePlus Videos and Cool Tools
    Health videos on a wide variety of topics
  - NASA Image and Video Library
  - NOAA Photo Library
    Images of weather, space, shore and coastal seas, and thousands of marine species
  - NSF Multimedia
    Images from the National Science Foundation's Multimedia Gallery
  - USDA Plant Image Gallery
    Photos and line drawings of U.S. plants, including many cultivated or foreign taxa
- **Natural Resources & Conservation - Ecosystems, Energy Resources, Forest Science, Mining**
  - Forest Service Research Data Archive
    Research data publications from work funded by USDA Forest Service and Joint Fire Science Program
  - Treesearch
    Publications by R&D scientists within the USDA Forest Service
- **Science Education - Homework Help, Teaching Aids, Science Internships**
  - ERIC Educational Resources Information Center
    Bibliographic records and fulltext of journal articles and other education-related materials
  - NSF Publications Database
    Publications produced by the National Science Foundation


Science.gov
Your Gateway to U.S. Federal Science
Search
Search: Title: "climate change" or "global warming"
Create new alert from this search
Alert feature
Topics
Visual
Text (882)
Multimedia (5)
Data (1)
Public Access (89)
Text (882)
Date Range Picker
Clusters
Sort by: # of Results
Refine by:
Topics
Temperature (120)
Climate Cha... (102)
Global Warmi... (77)
National Can... (70)
Greenhouse... (55)
More...
Authors
Results 1 - 20 of 882
Sort by: Date
Limit to: All Collections (882)
«« « 1 2 3 4 5 » »»
Global warming impact to River Basin of Blue Nile and the optimum operation of its multi-reservoir system for hydropower production and irrigation.
PubMed
Tariku, Tebikachew Betru; Gan, Kai Ernn; Tan, Xuezhi; Gan, Thian Yew; Shi, Haiyun; Tilmant, Amaury
2021-05-01 The Science of the total environment
DOI: 10.1016/j.scitotenv.2020.144863 ISSN: 0048-9697 Volume: 767 Pages: 144863 PMID: 33450592
Keywords: Blue Nile River Basin, Climate change impact, Hydropower, Irrigation water, Reservoir optimization, Stochastic dual dynamic programming (SDDP)
The water resource of the Blue Nile River basin (BNRB) has been under pressure due to growing demands from many users, and the climate change impact in the simulated streamflow of BNRB by a hydrologic model, VIC, driven by Representative Concentration Pathways Read More...
Review: Can temperature be used to inform changes to flood extremes with global warming?
PubMed
Wasko, Conrad
2021-04-19 Philosophical transactions. Series A, Mathematical, physical, and engineering sciences
DOI: 10.1098/rsta.2019.0551 ISSN: 1364-503X Volume: 379 Issue: 2195 Pages: 20190551 PMID: 33641461

Example – recent email for search alert

Science.gov Alerts for 2021-01-22

Climate Change Alert - Science.gov

Title: "climate change" or "global warming"

1. **Climate Change** Projection in the Twenty-First Century Simulated by NIMS-KMA CMIP6 Model Based on New GHGs Concentration Pathways

   OSTI.GOV

   Sung, Hyun Min (ORCID:0000000331207912); Kim, Jisun; Shim, Sungbo; Seo, Jeong-byn; Kwon, Sang-Hoon; Sun, Min-Ah; Moon, Hyejin; Lee, Jae-Hee; Lim, Yo

   2021-01-20 Asia-Pacific Journal of Atmospheric Sciences

   DOI: https://doi.org/10.1007/s13143-021-00225-6

   Abstract The National Institute of Meteorological Sciences-Korea Meteorological Administration (NIMS-KMA) has participated in the Coupled Model Inter-comparis new future projections using the ensemble mean of KMA Advanced Community Earth system model (K-ACE) and UK Earth System Model version1 (UKESM1) si those conducted following the new shared socioeconomic pathway (SSP) based scenarios to examine projected climate change in the twenty-first century. Prese of the climate models and reduces the uncertainty in response to future forcing. In future projections, global temperature increases from 1.92 °C to 5.20 °C relative decreases from 19% to 62% in the Arctic and from 18% to 54% in the Antarctic. In addition, climate changes are accelerating toward the late twenty-first century. data sharing portal and are used to support the establishment of the national adaptation plan for climate change in South Korea.

2. The implications of future **climate change** on the blue water footprint of hydropower in the contiguous US

   OSTI.GOV

   Zhao, Gang (ORCID:0000000327370530); Gao, Huilin (ORCID:0000000170098005); Kao, Shih-Chieh (ORCID:0000000232075328)

   2020-12-30 Environmental Research Letters

   DOI: https://doi.org/10.1088/1748-9326/abd78d

   As the largest renewable energy source, hydropower is essential to the sustainability of the global energy market. However, a considerable amount of water can b

Science.gov

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http://www.science.gov

Home About STEM Opportunities

Science.gov searches over 60 databases and over 2,200 scientific websites to provide users with access to more than 200 million pages of authoritative federal science information including research and development results.

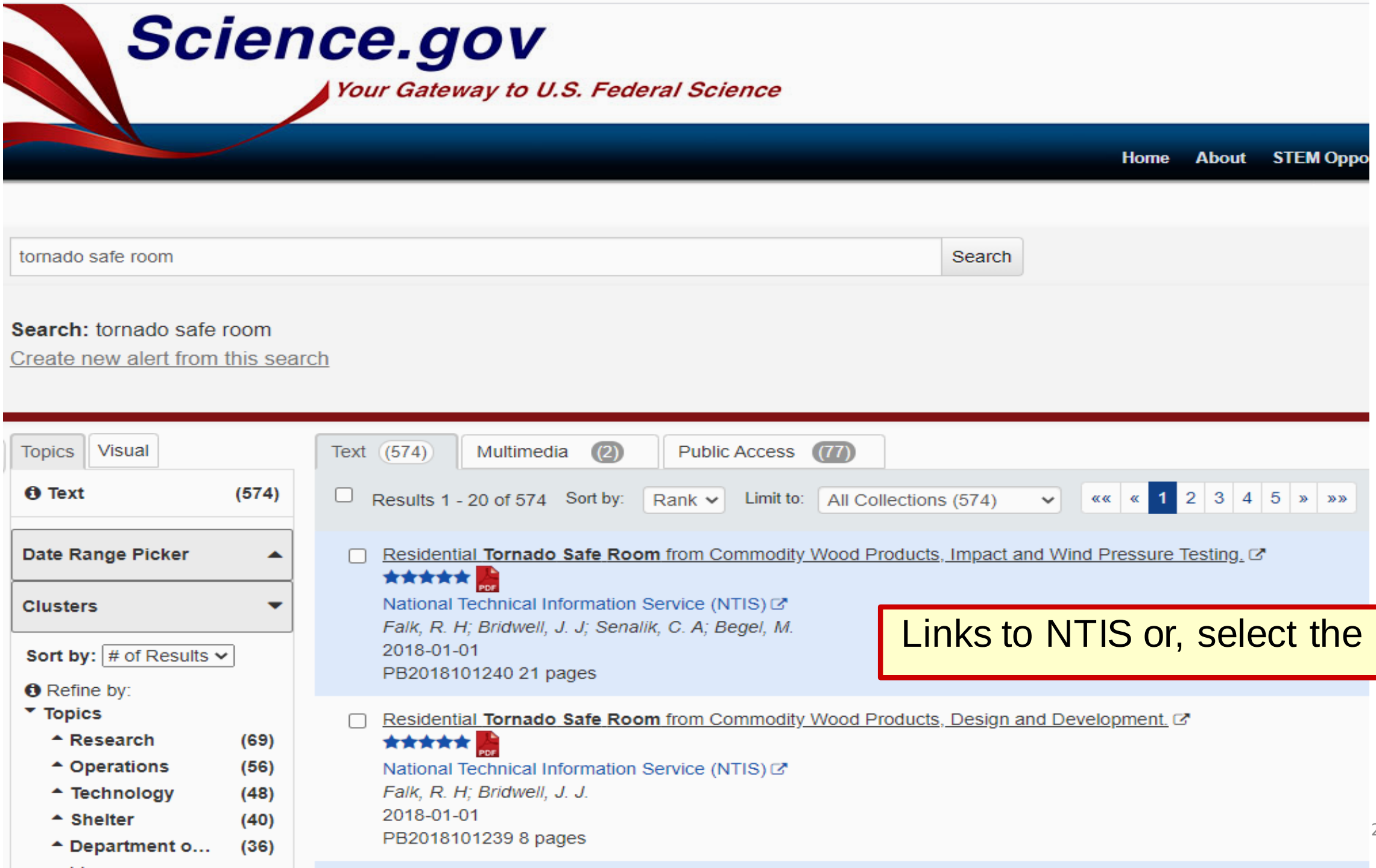
New:

Find federal research on Coronavirus (COVID-19)

Find out how the COVID-19 search works ›
For the latest public health information about COVID-19, visit the CDC ›
For information about the U.S. Government's response, visit USA.gov ›

tornado safe room

Advanced Search



Links to NTIS or, select the pdf

USDA
United States Department of Agriculture

Residential Tornado Safe Room from Commodity Wood Products

Impact and Wind Pressure Testing

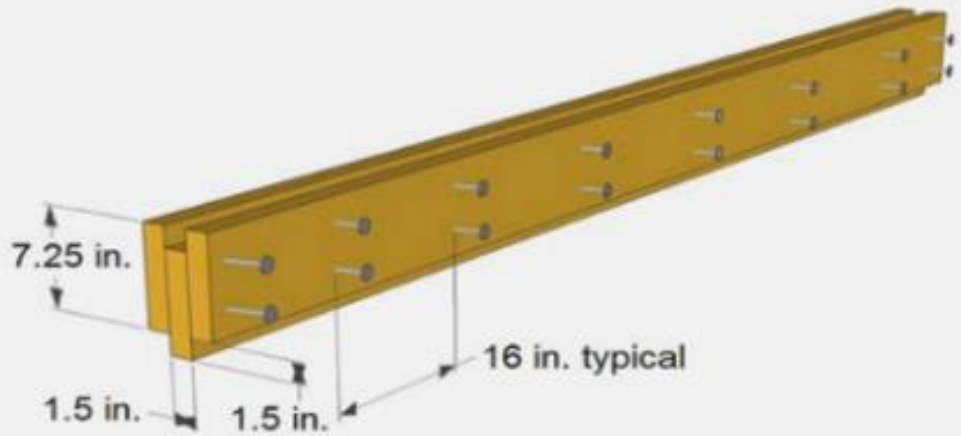


Figure 1. Nail-laminated 2 by 8 wall beam.

also makes this space suitable for other uses (bathroom, utility room, etc.) when not needed in an emergency.

The walls and roof of the safe room were constructed of stacked and interconnected nail-laminated lumber beams

Figure 3. Safe room with plywood nailed and glued to lumber beams.

TRID

the TRIS and ITRD database

https://trid.trb.org/

Search by keyword...

... or add additional filters

Can select broad Subject areas.

Some useful Source selections

Subject Areas

Operations and Traffic Management
Passenger Transportation
Pavements
Pedestrians and Bicyclists
Pipelines

UTC - University Transportation Centers
ATRI - Australian Transport Index
USDOT - US Federal Department of Transportation
STATEDOT - US State Departments of Transportation

Keywords

Highlight search keywords

Title

Serial or Conference

Subject Areas

Administration and Management
Aviation
Bridges and other structures

Match Any Subject Listed Match All Subjects Listed

Paper, Report, Contract or Grant Numbers

Source

- All sources -

Index Term

Organization

Subject areas: Pedestrians and bicyclists
Source: state depts. of transportation

21. **Bicycle Facility Implementation - Quick Reference Guide** 2020-10
☐ , 2020, 40p

Practical guide for cities; lists key resources

Secondary Resources

- American Association of State Highway and Transportation Officials (AASHTO) – Guide for the Development of Bicycle Facilities, 2012 (updated version anticipated in 2020)
- Various National Association of City Transportation Officials (NACTO) Guides:
  - Urban Street Design Guide, October 2013
  - Urban Bikeway Design Guide, Second Edition, March 2014
  - Designing for All Ages and Abilities, December 2017
  - Don't Give Up at the Intersection, May 2019
  - Transit Street Design Guide, April 2016
  - Other guides (Blueprint for Autonomous Urbanism, Global Street Design Guide, Urban Street Stormwater Guide, Bike Share Station Siting Guide)
- Federal Highway Administration (FHWA) – Small Town and Rural Multimodal Networks Guide, December 2016
- FHWA – Separated Bike Lane Planning and Design Guide, May 2015
- FHWA – Bikeway Selection Guide, February 2019

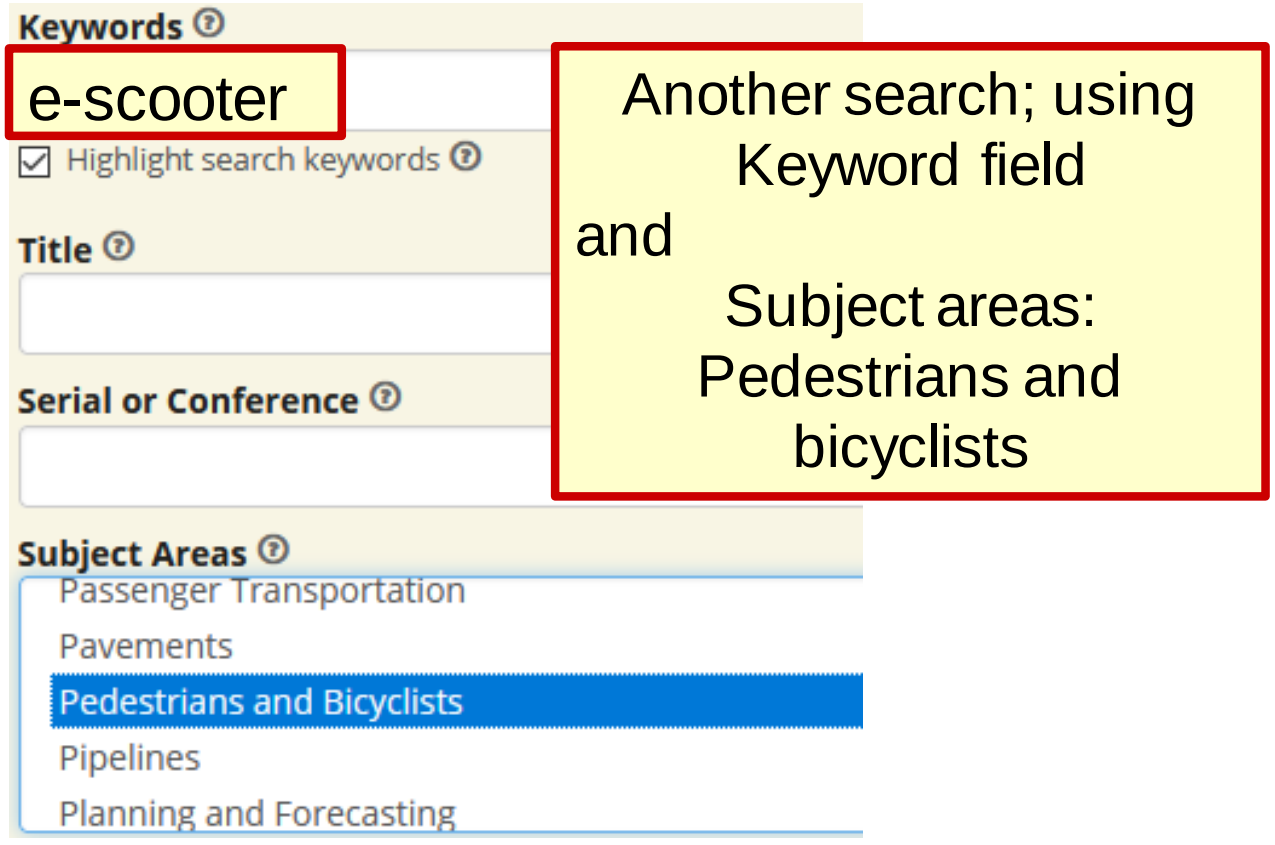
Bicycle Facility Implementation - Quick Reference Guide

In addition to people walking, people bicycling are our most vulnerable roadway users; they are most at risk of serious injury or death when they are involved in motor vehicle-related crashes. Local, county, regional and state transportation agencies play an important role in providing and maintaining safe and comfortable bicycle facilities. Planners and engineers must consider many factors when choosing and designing an appropriate facility for the roadway and land use context. This Quick Reference Guide was informed by a survey of local agencies' bicycle facility design practices, questions and concerns. It is intended to demystify common questions about appropriate facility selection and design to help practitioners confidently implement low-stress bicycle transportation networks. The Guide provides information on the variety of bicycle facility selection and design guidance documents available and identifies which to use as primary resources in Minnesota

Record URL:
http://www.dot.state.mn.us/research/reports/2020/2020RIC03.pdf

Record URL:
https://rosap.ntl.bts.gov/view/dot/54932

Corporate Authors:
SRF Consulting Group, Inc.
Minneapolis, MN United States
Alta Planning + Design
Minneapolis, MN United States
Minnesota Department of Transportation
Office of Research & Innovation



Another search; using Keyword field

and

Subject areas: Pedestrians and bicyclists

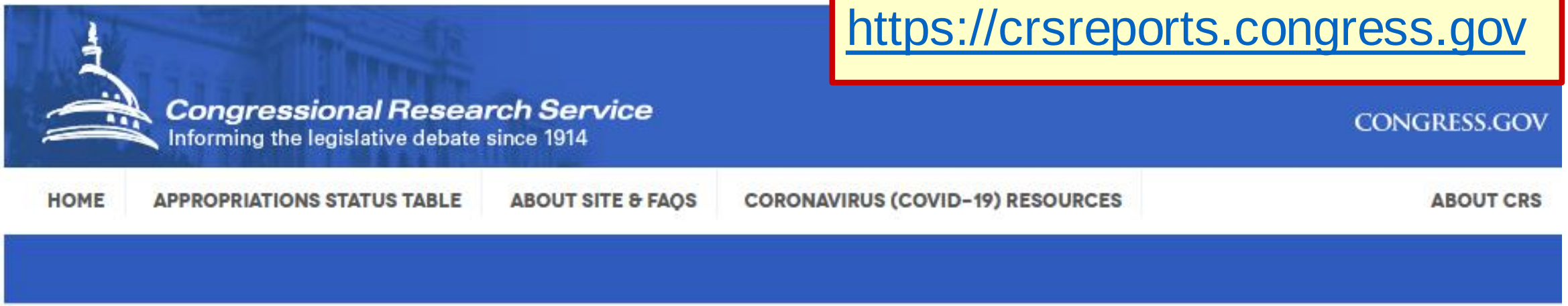
Injuries related to electric scooter and bicycle use in a Washington, DC, emergency department

This report compares injuries sustained by riders involved in e-scooter crashes and bicycle crashes and the characteristics of those crashes. Analysis is based on interviews with 103 adult e-scooter riders, during 2019, and 377 adult bicycle riders, 2015-2017, seeking treatment for injuries at the George Washington University Hospital (Washington, DC) emergency department (ED). Overall, injury severity was similar for e-scooters and cyclists. Head injury rates were similar. While two thirds of cyclists were helmeted, injured e-scooter riders had a low rate of helmet use. This contributed to some serious head injury types being more prevalent among e-scooter riders than cyclists. E-scooter riders were injured more often per mile of travel than cyclists and presented to EDs more often than cyclists over the same time period. Bicycle crashes occurred more frequently on roads (50.9%) compared to e-scooters (23.5%) and bicycle crashes more often involved a moving vehicle (39.5%) compared to e-scooters (12.6%). E-scooter crashes more often occur on sidewalks where uneven pavement and other obstacles are more difficult for small scooter tires to deal with. Additional information examined includes demographics, trip characteristics, and injury treatment characteristics.

Record URL:
https://www.iihs.org/topics/bibliography/ref/2215

Corporate Authors:
Insurance Institute for Highway Safety

https://crsreports.congress.gov



Search CRS Reports

Search CRS Reports

SEARCH

For an index of CRS products, click the SEARCH button without entering a search term.

Issuing many 3-5 page "Insight" reports on current issues, with active links.

To browse the most recent reports, just select Search

Congressional Research Service
Informing the legislative debate since 1914

INSIGHT

"Insight" report, updated March 25, 2021

Mexico: Challenges for U.S. Policymakers in 2021

https://crsreports.congress.gov/product/pdf/IN/IN11635

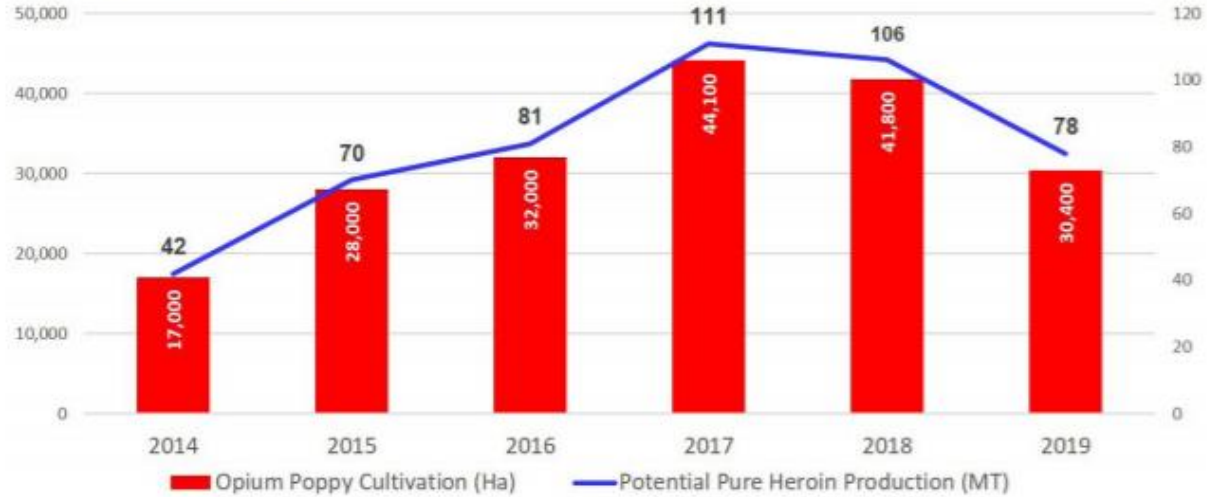
Updated March 25, 2021

Countering Drugs

U.S.-Mexican security cooperation has expanded significantly under the Mérida Initiative, a U.S. antidrug and rule-of-law assistance program through which Congress has provided some $3.2 billion to Mexico since FY2007. Relations have been strained, however, since the October 2020 U.S. arrest of former Mexican defense minister Salvador Cienfuegos on drug trafficking charges. The United States ultimately agreed to release Cienfuegos to Mexico, where authorities dropped all charges against him in January 2021, and Mexico's Congress enacted legislation limiting U.S. law enforcement operations in Mexico.

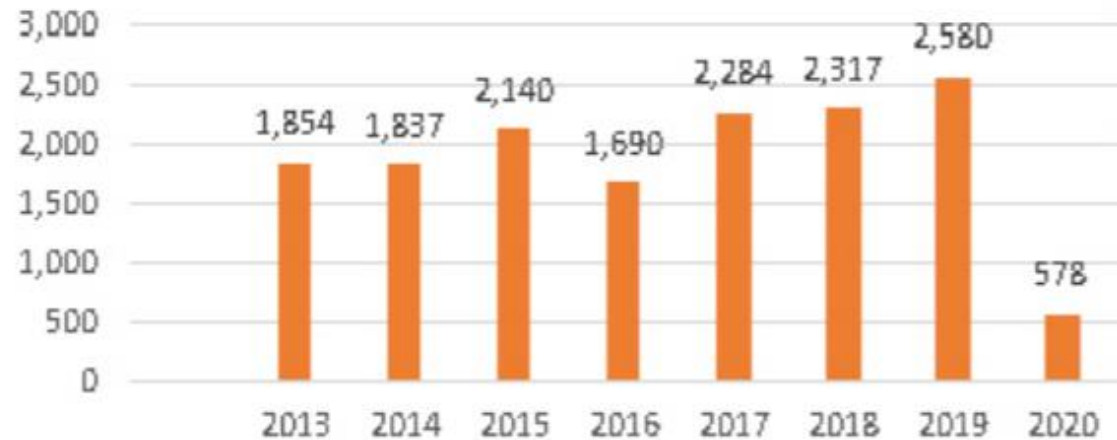
The Drug Enforcement Administration's 2020 *National Drug Threat Assessment*, issued in March 2021, asserts that Mexican drug trafficking organizations are "increasingly responsible for producing and supplying fentanyl to the U.S. market." Amid surging U.S. demand during the pandemic, drug trafficking-related violence remained elevated in Mexico even as violence and crime declined in other countries. Increased U.S. overdoses and drug trafficking and organized crime-related homicides in Mexico, combined with current tensions in relations, have led many to question the Mérida Initiative's efficacy.

Figure 8. Potential Pure Heroin Production in Mexico, 2014 – 2019



Source: U.S. Government Estimates

Figure 9. Southwest Border Heroin Seizures Total Kilograms Seized, 2013 to 2020 to date *(as of May 2020)*



Source: U.S. Customs and Border Protection

Operation Warp Speed Contracts for COVID-19 Vaccines and Ancillary Vaccination Materials

CRS "Insight" report, at: https://crsreports.congress.gov/product/pdf/IN/IN11560

Operation Warp Speed(OWS) is an interagency partnership between… HHS and DOD. Collaborating HHS components include…CDC, NIH, and the Biomedical Advanced Research and Development Authority (BARDA).OWS is a Trump Administration initiative, and while the Biden Administration has indicated that the interagency response to COVID-19 will continue, it plans to restructure and rename the effort.

Table 1. Vaccine Candidates Supported by BARDA and Other Federal Agencies

Company	Type	Contract Value	Specifications	Doses per Person	Current Phase (Preliminary Effectiveness – U.S. Strain)Error! Reference source not found.	Storage
Pfizer/BioNTech	mRNA[b]	$5.97B	300 million doses	2	Phase II/III (95%) EUA Issued	Ultra cold storage (-70° C)
Moderna	mRNA	$4.94B $954M	300 million doses Development	2	Phase III (94.5%) EUA Issued	Cold storage (6 mos, -20° C) Refrigerator (30 days, -2° to -8° C)
AstraZeneca/ Oxford Univ.	Viral Vector[c]	$1.2B	300 million doses	2	Phase II/III (70%)	Refrigerator (-2° to -8° C)
Johnson & Johnson (Janssen Pharmaceuticals)	Viral Vector	$1B $456M	100 million doses Development	1	Phase III (72%) EUA Issued	Refrigerator (3 mos, -2° to -8° C)
Novavax	Protein[d]	$1.6B	100 million doses	2	Phase III (95.6%)	Refrigerator (-2° to -8° C)
Sanofi/GSK	Protein	$2.04B $30.8M	100 million doses Development	2	Phase I/II	Refrigerator (-2° to -8° C)
Merck/IAVI[e]	Viral	$38M	Development[f]	1	DISCONTINUED	N/A

Congressional Budget Office (CBO)

https://www.cbo.gov/

CBO also does briefs for Congress on legislative issues.
The Budgetary Effects of the Raise the Wage Act of 2021
https://www.cbo.gov/system/files/2021-02/56975-Minimum-Wage.pdf

Table 1.

Federal Minimum Wages Under S. 53, the Raise the Wage Act of 2021

Date	Federal Minimum Wage
June 1, 2021	$9.50
June 1, 2022	$11.00
June 1, 2023	$12.50
June 1, 2024	$14.00
June 1, 2025	$15.00
June 1, 2026 and later	$15.00 plus an indexing adjustment[a]

Data source: Congressional Budget Office.

CBO analyzed the Raise the Wage Act of 2021 as introduced in the Senate on January 26, 2021. The analysis incorporates the assumption that the bill would be enacted at the end of March 2021.

Under current law, the federal minimum wage is $7.25.

a. Each year, the indexing adjustment would make the minimum wage equal the previous year's value plus the annual percentage increase, if any, in the median hourly wage of all employees.

NTRS: NASA Technical Reports Server

https://ntrs.nasa.gov/

- Many NASA publications are book-length and could be considered "core" on the topic.
- Includes conference proceedings/presentations – also some journal article reprints (if authors employed by NASA)
- Beautiful graphics and photos!
- Search engine, though, has some challenges
  - Works best if you type a few key words without Boolean or filler words

NTRS - NASA Technical Reports Server

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Title

artemis

Author

Organization

Publication Date

1/1/2020 - 4/12/2021

Date Acquired

Type

Center

Subject Category

Report Numbers

Funding Numbers

Keywords

A Flexible Lunar Architecture for Exploration (FLARE) Supporting NASA's Artemis Program

The Flexible Lunar Architecture for Exploration (FLARE) is a concept to deliver four crew to the lunar surface for a minimum of seven days and then return them safely to Earth. FLARE can be implemented whenever the component vehicles are operational. FLARE was developed as an alternative to NASA's Human Landing System (HLS) reference architecture from the Design Analysis Cycle (DAC) #2 created in 2019. The DAC2 guidelines require...

Document ID	20205001817
Document Type	Reprint (Version printed in journal)
Authors	Michael E. Evans *(Johnson Space Center Houston, Texas, United States)* Lee D. Graham *(Johnson Space Center Houston, Texas, United States)*
Date Acquired	May 6, 2020
Publication Date	July 28, 2020
Publication Information	Publication: Acta Astronautica Volume: 177 ISSN: 0094-5765 DOI: 10.1016/j.actaastro.2020.07.032
Subject Category	Lunar and Planetary Science and Exploration
Funding Number(s)	WBS: 452562
Distribution Limits	Public
Copyright	Public Use Permitted.
Technical Review	NASA Technical Management
Keywords	Moon 2024, Artemis 3, Lunar architecture, SpaceTug, Lunar lander, Lunar ATV, Lunar human exploration, NASA Artemis program, Lunar human architecture, Lunar human lander, Lunar All-Terrain vehicle (LATV)

Published

20	2020
10	2011
8	2019
4	1992
4	2009

Details

Journal article, full-text

Screen refreshed after selected 2020

content from a NASA Technical Paper (NASA/TP-2020-20517)

Note: content similar from a NASA Technical Paper (NASA/TP-2020-220517)

Example of book, with many illustrations and graphics, included in NTRS

The Saturn System Through the Eyes of Cassini

More than 400 years ago, Galileo Galilei trained his homemade telescope on the night sky and
side. At the time, in 1610, Galileo declared them to be moons. A few decades later, Saturn mo
largest moon Titan in 1655 and was the first to describe the extended moon-like features at S

Document ID	20170008557
Document Type	Book
Authors	Green, James *(NASA Headquarters V*
Date Acquired	September 8, 2017
Publication Date	January 1, 2017
Subject Category	Lunar and Planetary Science and Exploration
Report/Patent Number	HQ-E-DAA-TN46169
Distribution Limits	Public
Copyright	Work of the US Gov. Public Use Permitted.

A snapshot of some of the impressive numbers Cassini amassed during its 20-year mission.

[*note: the 3 tiny dots are moons*…] “By this point in the approach sequence, Saturn was large enough that two narrow-angle camera images were required to capture an end-to-end view of the planet, its delicate rings, and several of its icy moons. The composite is made entirely from these two images.” Image Credit: NASA/JPL-Caltech/Space Science Institute

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https://pubs.er.usgs.gov/

The Pubs Warehouse provides access to over 160,000 publications written by USGS scientists over the century-plus history of the bureau.

Search for Publications

San Francisco earthquake

Advanced search category

- Select -

Published in or before:

1925

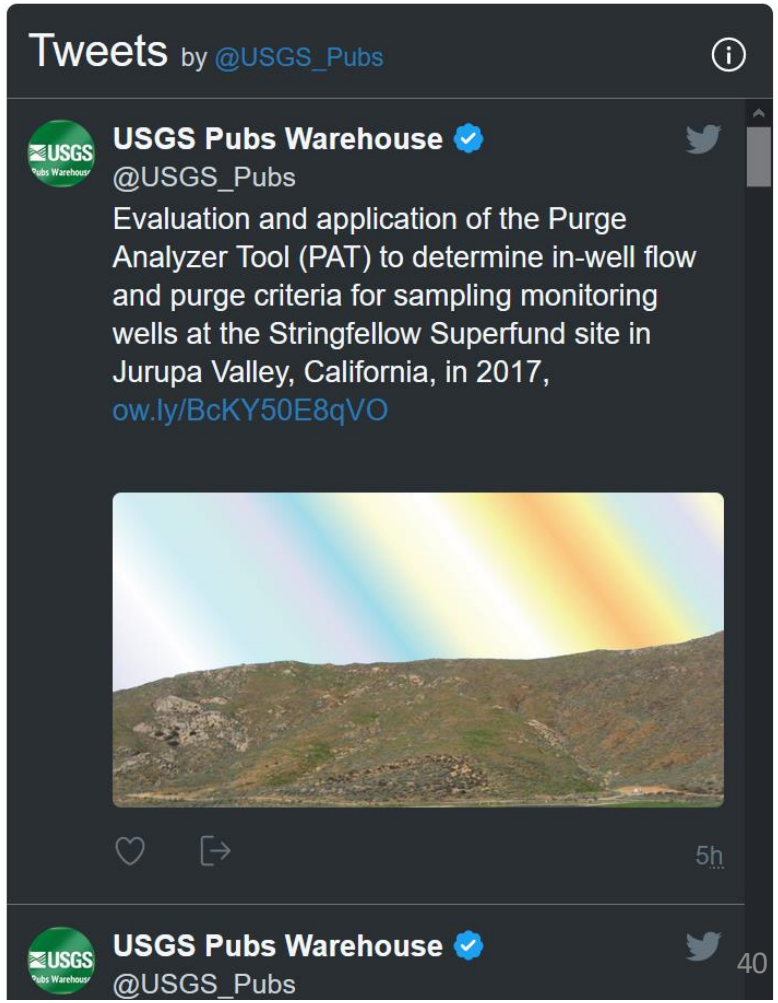
1925

Search | Clear Advanced Search

New Publications by USGS Authors

Groundwater-quality and select quality-control data from the National Water-Quality Assessment Project, January 2017 through December 2019

2021, Data Series 1136



The San Francisco earthquake and fire of April 18, 1906, and their effects on structures and structural materials

Bulletin 324

By: Grove Karl Gilbert, J.A. Holmes, Richard Lewis Humphrey, J.S. Sewell, and Frank Soule

https://doi.org/10.3133/b324

Tweet

https://doi.org/10.3133/b324

Links

- Document: **Document** (pdf)
- Plates:
  - **Plate 56** (pdf)
  - **Plate 57** (pdf)
- Download citation as: RIS | Dublin Core

Includes color plate of downtown

Abstract

Plate 56

38 St. Francis Hotel, west of Union square, Geary and Powell streets.

15 Emporium, 825 Market street.

30 United States Mint, Fifth and Mission streets.

Principal distribution mains.

Salt-water system.

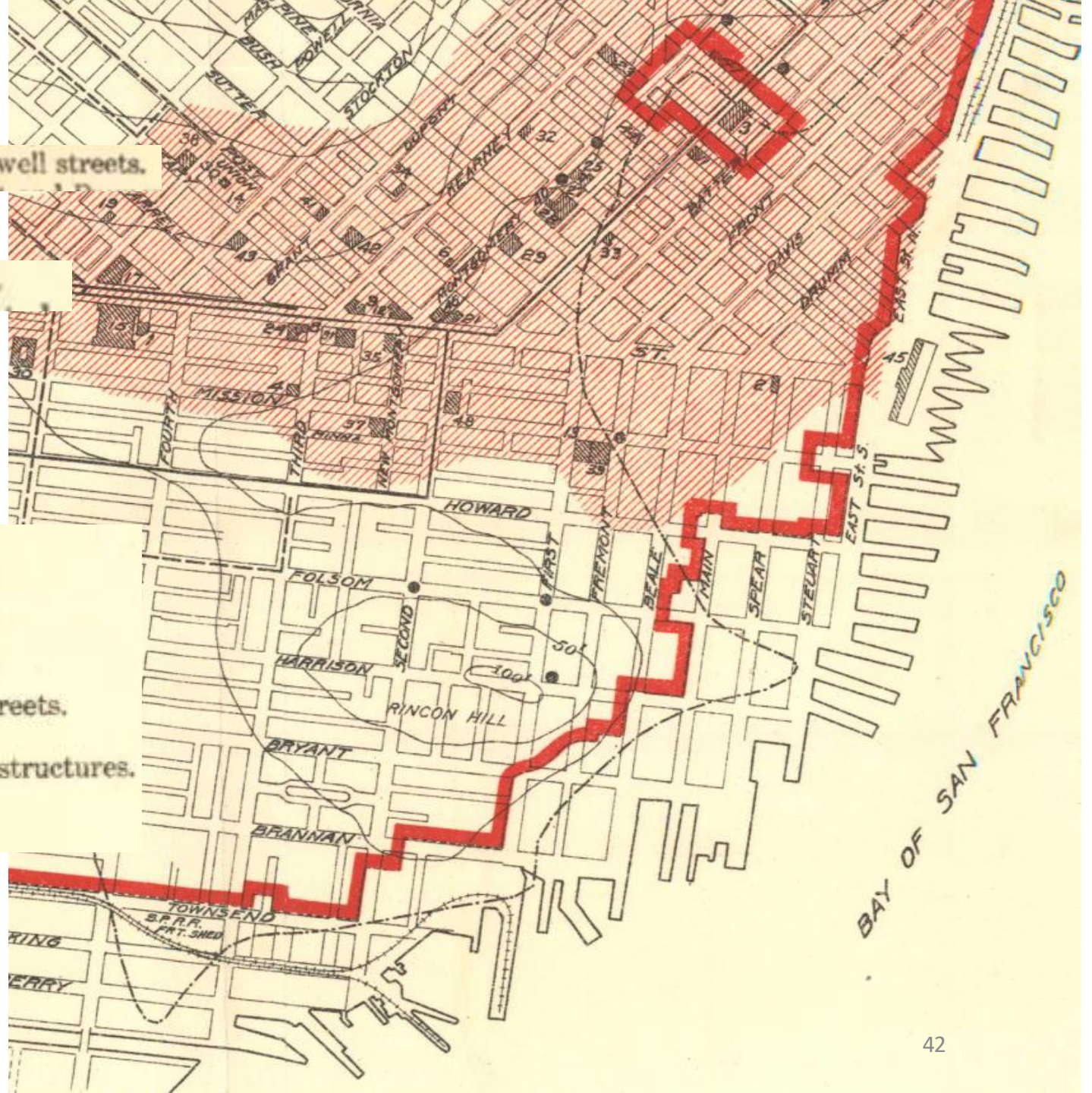
Old shore line.

Boundary line of burned district.

Principal earthquake breaks in streets.

District covered largely by brick structures.

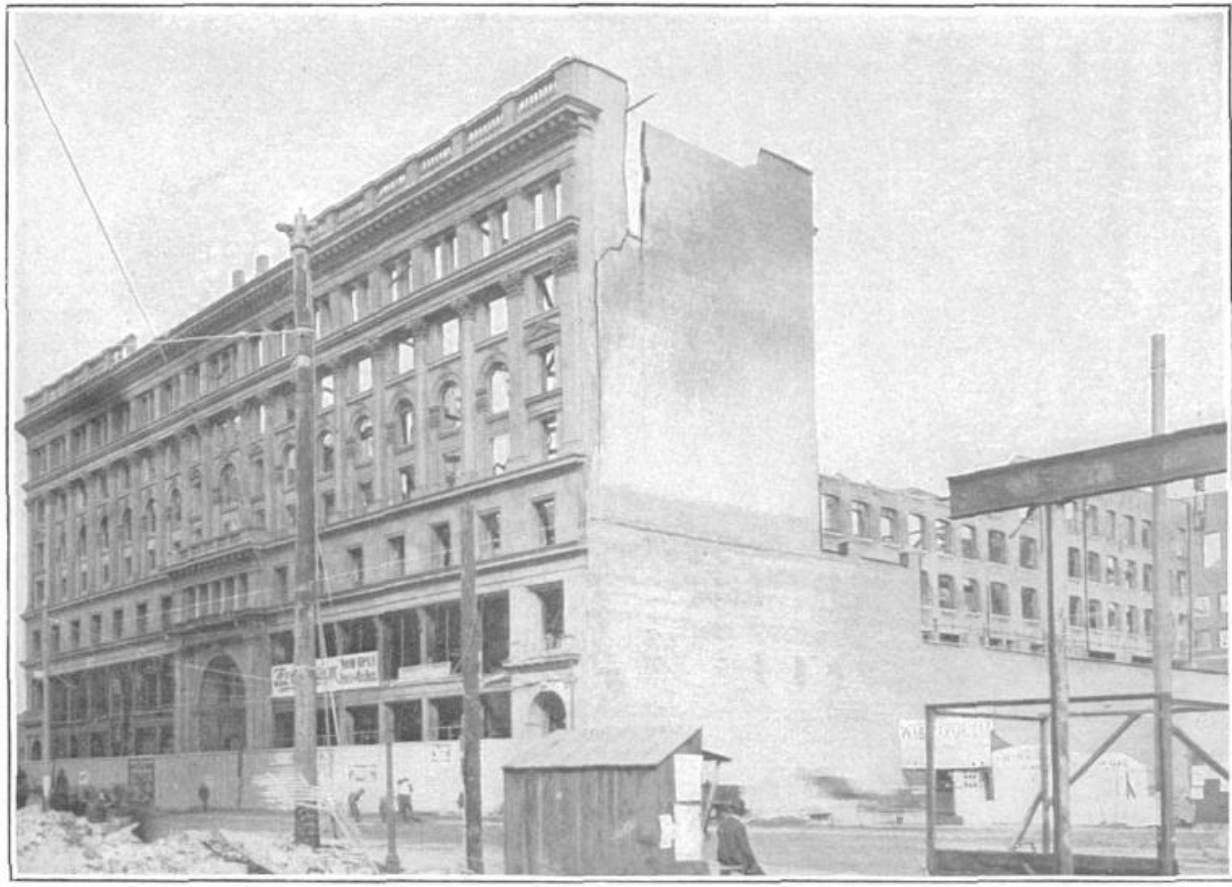
Cisterns in service.



EMPORIUM.

The Emporium was a large department store on the south side of Market street, between Fourth and Fifth streets (Pl. XXXII). The only portion of its interior structure which remained had been carried by a steel frame. It is reported, however, that mill construction had

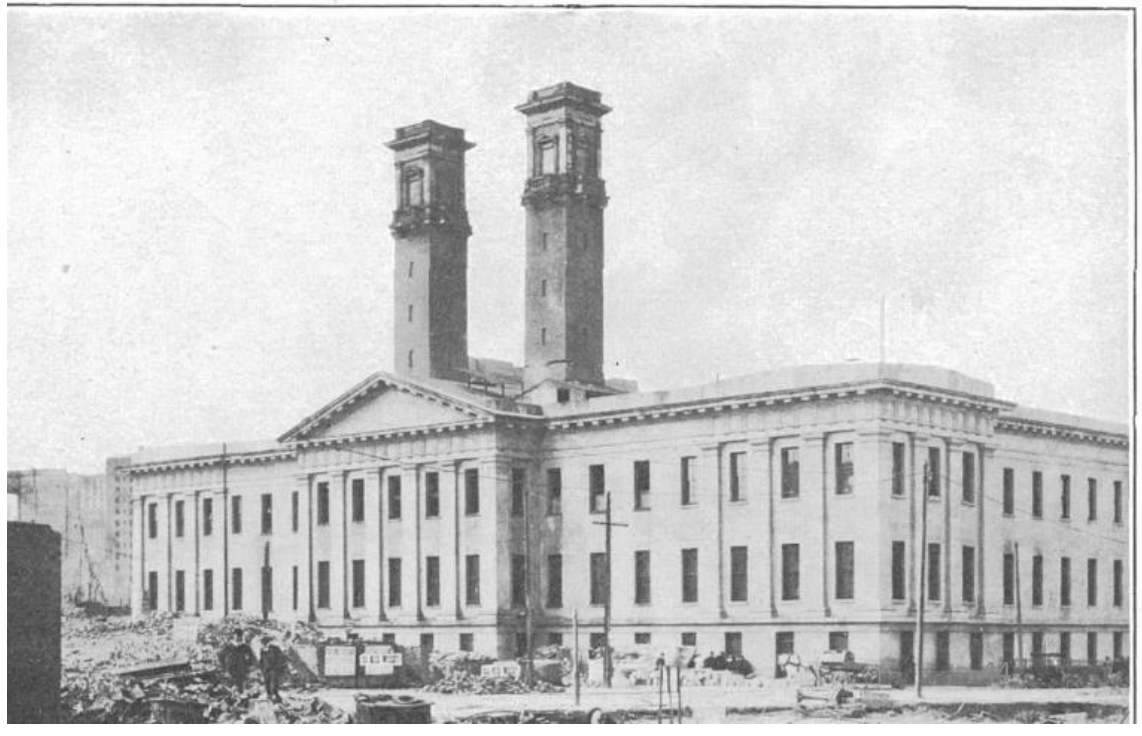
was not true. Under the circumstances, it is a little difficult to draw a reliable conclusion from the state of affairs in the Emporium. However, examination of the ruins indicated very strongly that much of the trouble was due to the inadequacy of the fireproof protection to the steel work.



COMPLETE FAILURE OF SLOW-BURNING WOOD CONSTRUCTION, THE EMPORIUM, SAN FRANCISCO.

A large department store. *A*, Interior (photograph by John Stephen Sewell); *B*, Exterior (photograph by Richard L. Humphrey).

The mint was an old-fashioned monumental structure with granite walls and segmental brick-arch floor construction, carried on iron beams. A general view, showing the southwest front, is presented in Pl. XXXVIII, *A*. The building seems to have been practically uninjured by the earthquake, the only damage visible being at the base of the right-hand brick stack. It is probable that the shock at the locality of the mint was not so severe as it was at the new post-office building, although the two are only a few blocks apart; yet the result may be an indication that the solid old-fashioned monumental walls with the stonework solidly backed up by brickwork constitute after all one of the best types for resisting earthquake shocks.



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http://technicalreports.org/

Title | contains these words | phosphogypsum | AND
Title | contains these words | | AND
Title | contains these words | | AND
Title | contains these words | |

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CRL Center for Research Libraries GLOBAL RESOURCES NETWORK

2021 - Piney Point, Florida –
Major leak at wastewater holding retention pond – of phosphogypsum stack
[to cost $200 million or more to clean up and close it] –
Was there anything published decades ago by the gov't. on phosphate waste?

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- Aggregates (Building materials) (1)
- Calcium sulfide--Metallurgy (1)
- Leaching (1)
- Phosphate industry--Waste disposal--Florida (1)

Assessment of environmental impacts associated with phosphogypsum in Florida

Evaluation of radium and toxic element leaching characteristics of Florida phosphogypsum stockpiles

Assessment of phosphogypsum as a constituent of aggregate material

Recovery of sulfur from phosphogypsum :conversion of calcium sulfide to sulfur

Recovery of sulfur from phosphogypsum :conversion of calcium sulfate to calcium sulfide

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Assessment of environmental impacts associated with phosphogypsum in Florida

Author:	May, Alexander,
Additional Authors:	Sweeney, John W.
Year:	1982
Document Type:	BMRA
Issuing Agency:	U.S. Dept. of the Interior, Bureau of Mines,
SUDOC:	I 28.23:8639
Series:	Report of investigations / Bureau of Mines ;
Report Number:	8639
Subject:	Phosphogypsum--Environmental aspects--Florida
Link:	https://hdl.handle.net/2027/mdp.39015078472050

Metadata includes SuDoc, issuing agency, series title and report # This links to it in HathiTrust

< New search

In the Prayon process, commonly used in Florida, the phosphate rock, ground to pass 100 mesh, is treated with 30 to 46 percent phosphoric acid and 55 to 60 percent sulfuric acid. The rock and acid is circulated through reaction tanks to maintain the optimum time and temperature for the reaction and for the growth of phosphogypsum crystals. The phosphogypsum is filtered, washed with water, and pumped as a slurry to ponds from which the phosphogypsum settles to form the phosphogypsum stacks (11).

alone. Figure 1 shows the location of phosphogypsum stacks in Florida.

Phosphogypsum contains radium, and owing to the large tonnages in Florida, is of environmental concern. The Environmental Protection Agency (EPA) proposed in 1978 that phosphogypsum be identified as a potential hazardous waste. On May 19, 1980, EPA issued its final regulations of toxic and hazardous wastes, but as of July 1981, had deferred regulation of phosphogypsum. A part of the Bureau's Minerals Environmental Technology research program is to assess these types of problems and develop a data base so that, through a continuing research effort, potential environmental problems can be mitigated. The Bureau's Tuscaloosa Research Center conducted research to characterize phosphogypsum to determine if it is hazardous or toxic, and if so, to investigate means to mitigate the situation so that the phosphogypsum could be used in a variety of high-volume applications.

1982 report; Piney Point, very near Tampa Bay, was active plant and had “stacks”

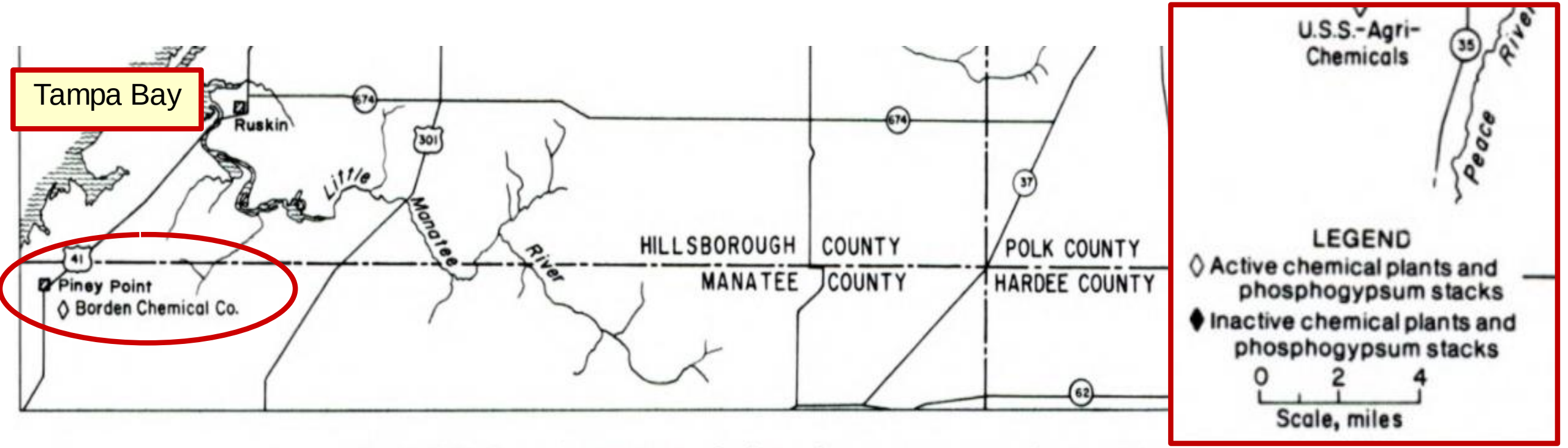

FIGURE 1. - Location of phosphogypsum stacks in Florida.

CONCLUSIONS

Based on the research conducted at the Bureau's Tuscaloosa Research Center, phosphogypsum was generated at a rate of 33 million tons a year in Florida. The amount of accumulated phosphogypsum in Florida was 335 millions tons, and this quantity is projected to reach over 1 billion tons by the year 2000.

Phosphogypsum was not a corrosive hazardous waste. Its pH was greater than 2.0.

The radium concentration in phosphogypsum in Florida averaged 21 picocuries per gram and its concentration was greatest in the fine sizes.

Thirty-nine elements were detected in phosphogypsum; 30 by emission spectrography, three radiologically, and six by chemical analyses.

The concentrations of elements listed by EPA for toxic elements each average less than the allowable toxic elements criteria for toxic hazardous waste.

The concentrations of elements in phosphogypsum stacks did not vary with depth.

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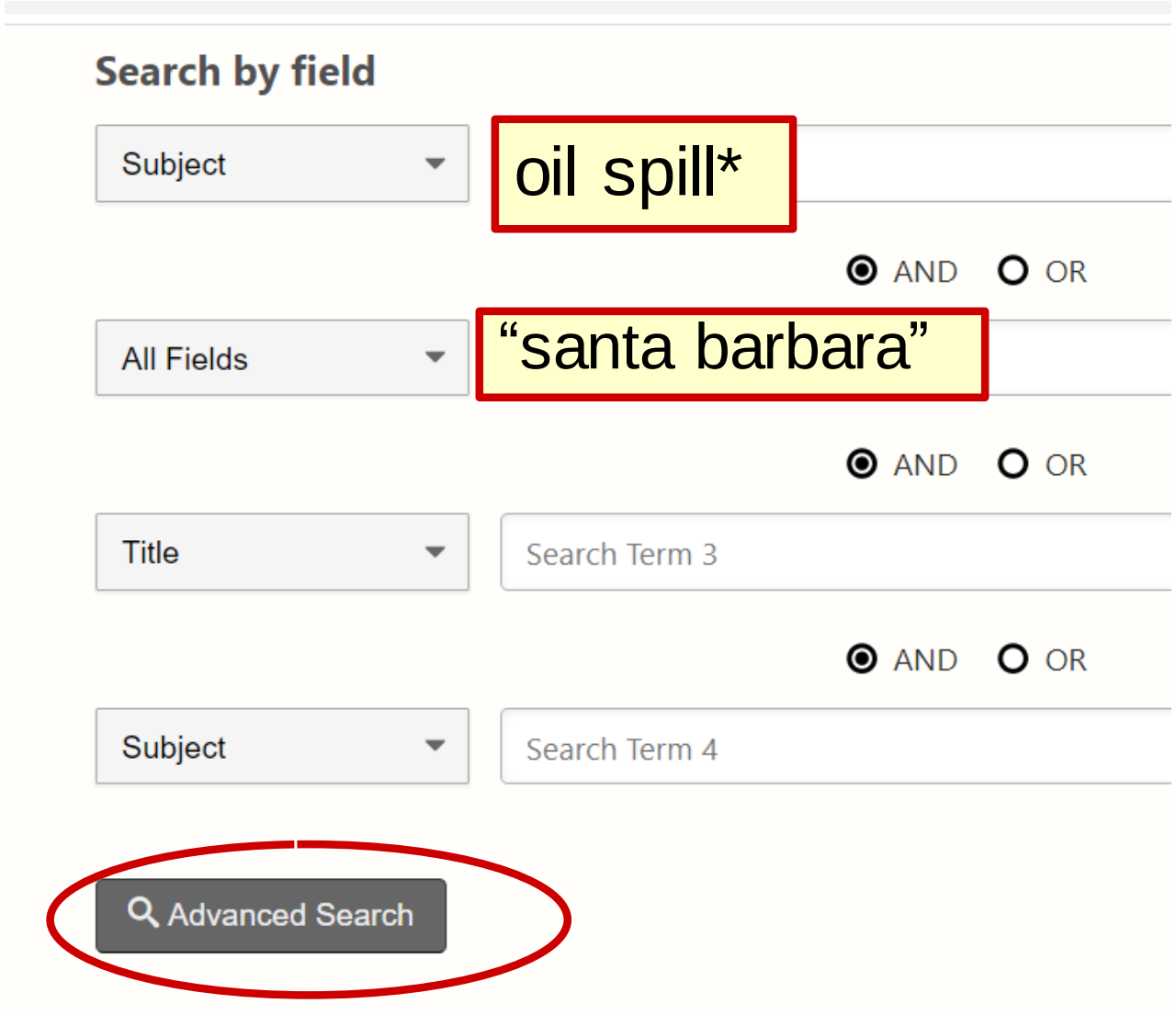

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Published 1970

Author University of California, Santa Barbara

United States. Federal Water Quality Administration

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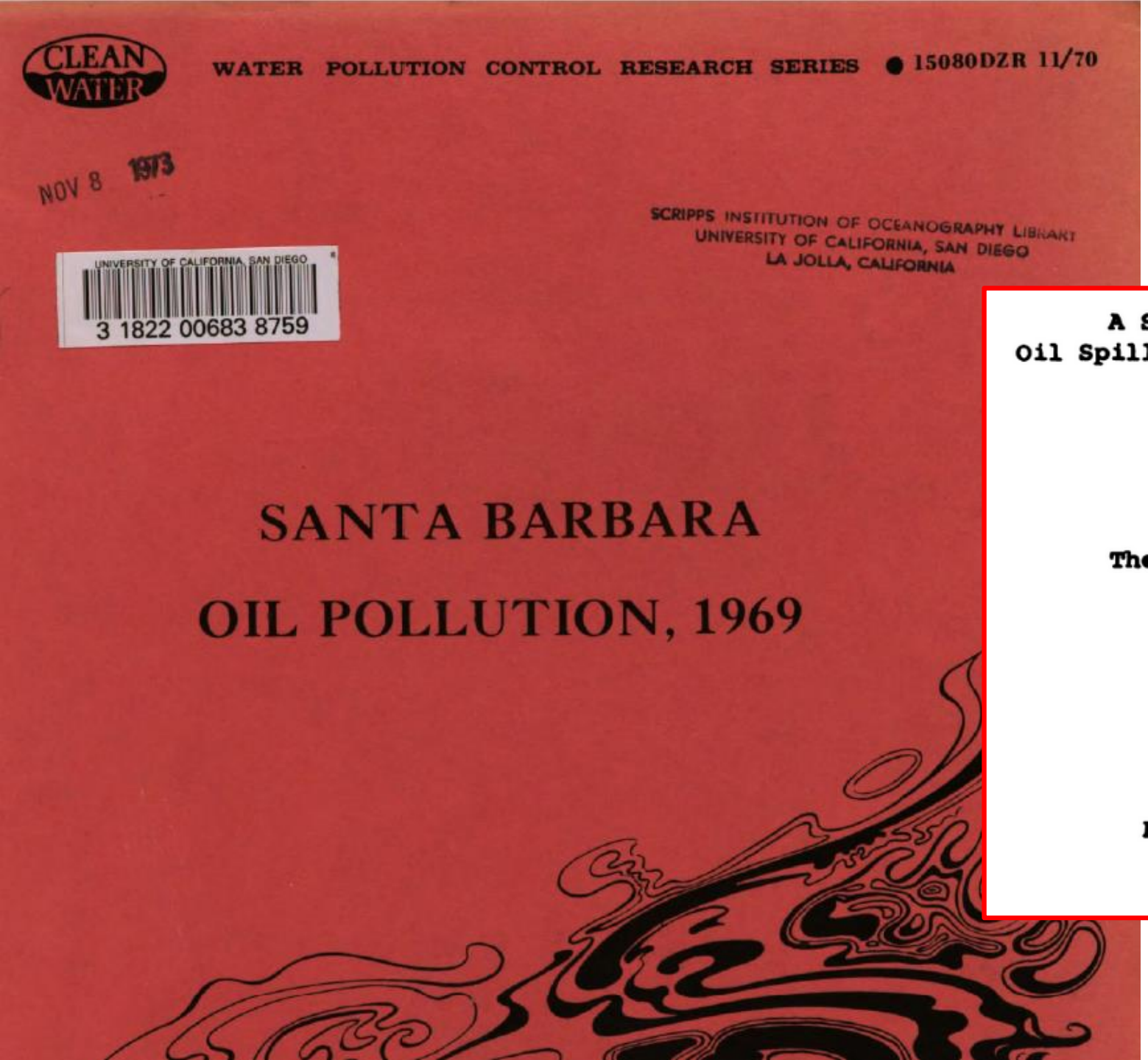

A Study of the Biological Effects of the Oil Spill Which Occurred at Santa Barbara, California in 1969

by

The University of California, Santa Barbara
Santa Barbara, California

for the

FEDERAL WATER QUALITY ADMINISTRATION

DEPARTMENT OF THE INTERIOR

There was understandable confusion as to the amount of oil which was being released during the early days of the spill. On January 30, Union Oil officials claimed that the Santa Barbara News Press misquoted them in stating that the seep was producing 5,000 barrels (726 metric tons) per day. Jerry Luboviski, Communications Director for Union Oil in Los Angeles, claimed that the rate was 500 barrels (72.6 metric tons) per day.[1] Independently, Alan A. Allen (1969), using color aerial photographs and the work of Blokker (1964) to help support thickness estimates, estimated the flow on February 2 to be a minimum of 726 metric tons per day. If the flow were 500 barrels (72.6 metric tons) per day, as estimated by "knowledgeable engineers" (Editor's Note in Jones et al 1969), a slick of 78 square kilometers would have been formed in three days. Instead, a slick of 520 square kilometers was formed in three days. On

It has been estimated that as much as 226,000 metric tons of petroleum wastes per year are discharged on the sea surface by ships alone (ZoBell, 1963). Pilpel (1968) has pointed out that the quantities of oil being handled by ships, pipelines, and in other ways makes it almost inevitable that some of this oil will find its way into the sea. He also points out that the cleaning of tanks by oil tankers at sea, which releases a heavy, oily sludge, may be of greater world-wide significance than the releases from wrecked tankers.

ZoBell (1963) provides a comprehensive review of the occurrence and effects of oil on the sea. A more recent unpublished bibliography and literature review done by the Batelle Memorial Institute (1967) and made available to us, provides additional up-to-date information about marine oil pollution in general.

Literature Cited

Allen, A. A. 1969. Santa Barbara Oil Spill. Statement presented to U. S. Senate Interior Committee Subcommittee on Minerals, Materials, and Fuels (May 20).

Batelle Memorial Institute, 1967. Oil Spillage Study Literature Search and Critical Evaluation for Selection of Promising Techniques to Control and Prevent Damage. To Dept. of Transportation, United States Coast Guard, Washington, D. C.

National Technical Reports Library

Many large university libraries have microfiche collections – they subscribed to SRIM from NTIS for selected subjects; accession number useful

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Oil Spillage Study - Literature Search and Critical Evaluation for Selection of Promising Techniques to Control and Prevent Damage: BNPG-319.	AD786403	1967	60 pgs

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Advanced Search

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How to look for it	exact phrase
Results precision (fuzziness)	exact match
Select the dates to search / Limit search libraries to	☑ 2016 - Current; ☑ 2011 - 2015; ☑ 2006 - 2010; ☑ 2000 - 2005; ☑ 1995 - 1999; ☑ 1991 - 1994; ☑ 1986 - 1990; ☑ 1981 - 1985; ☑ 1976 - 1980; ☑ Prior to 1976; and ☑ Hardcopy Publications
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- single character difference
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2020

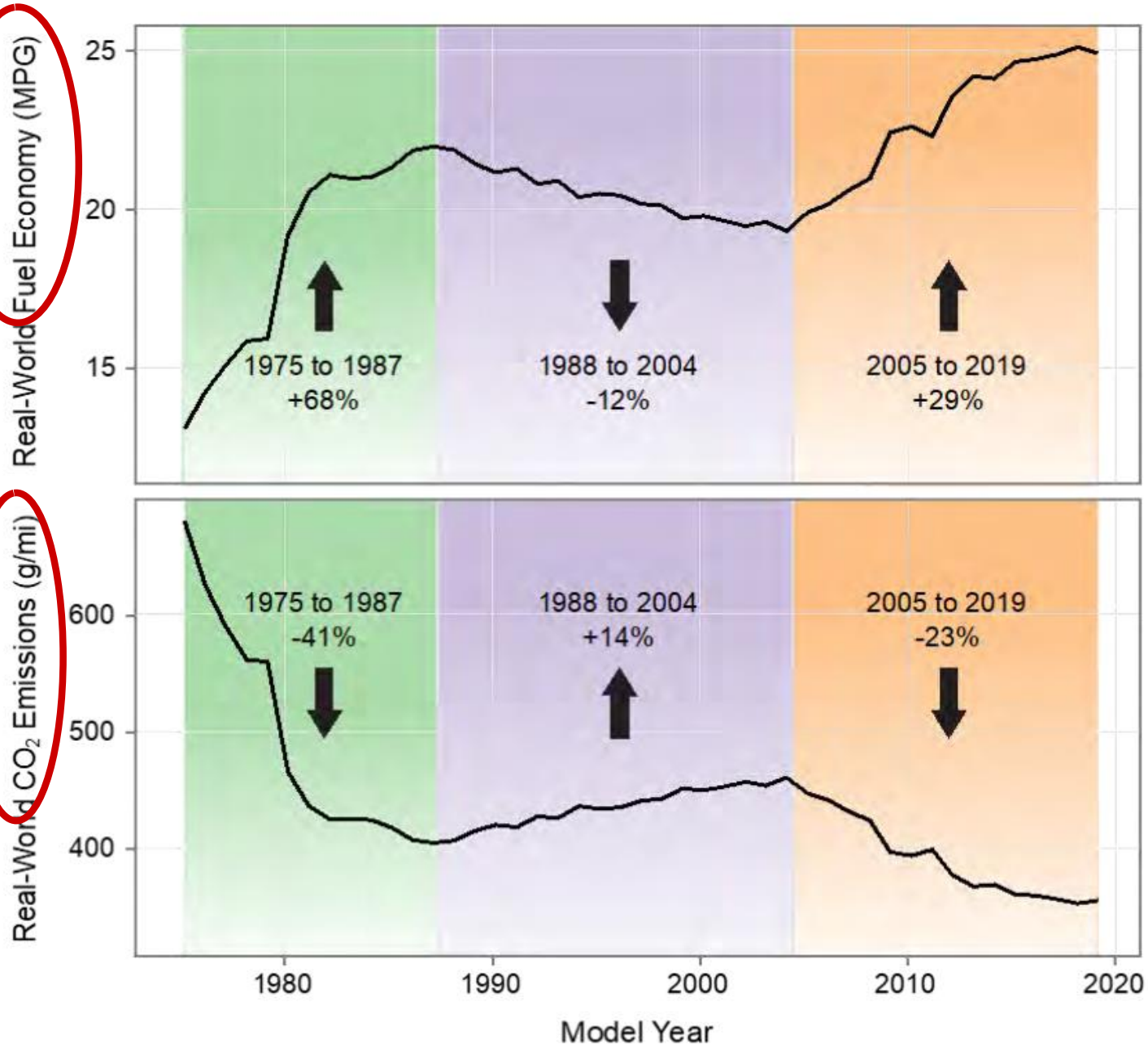
EPA Automotive Trends Report

Greenhouse Gas Emissions, Fuel Economy, and Technology since 1975

MPG CO_2

https://nepis.epa.gov/Exe/ZyPDF.cgi/P1010U68.PDF?Dockey=P1010U68.PDF

Figure 2.2. Trends in Fuel Economy and CO_2 Emissions Since Model Year 1975



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- News articles sometimes refer to reports by the U.S. government – often, they are technical reports.

- Search tips: use a phrase in the report, or author name, or company/product that is identified

- Use the agency database (they are updated frequently)

Losing Dollars by Pinching Pennies: When Short-Termism Goes Bad; Corporate America has a way of costing itself big by

Wall Street Journal Online, March 19, 2021
(print ed., March 20, does *not* have the quote below that is from the report).

As for hospital shortages, things aren't as simple as executives failing to prepare for trouble, explains Mr. Katyal. After all, they have significant cost pressures of their own. Bulk contracting can help hospitals use collective buying power to bring down expenses, but that has a downside: A 2019 report from the Food and Drug Administration highlighted a lack of financial incentives to maximize production of certain drugs, coupled with contracts that could reset prices for manufacturers without warning. "Contracts should ensure that manufacturers earn sustainable...returns on their investment in launching or continuing to market prescription drugs, especially older generic drugs that remain important elements of the medical armamentarium."

Drug Shortages:

Root Causes and Potential Solutions

The full version of this report is available on the FDA website at

https://www.fda.gov/media/131130/download (124 pgs)

A Report by the Drug Shortages Task Force

2019 Executive Summary

https://www.fda.gov/media/132058/download (14 pgs)

FDA analyzed 163 drugs that went into shortage in the 5-year period between 2013 and 2017. Of the 163 drugs in the sample, 63 percent were drugs administered by injection ("sterile injectables") and 67 percent were drugs that have a generic version on the market. They were also older drugs, with a median time since first approval of almost 35 years. After many years off patent, the injectables typically were sold at relatively low prices.

RECOMMENDATION 1: CREATE A SHARED UNDERSTANDING OF THE IMPACT OF DRUG SHORTAGES AND THE CONTRACTING PRACTICES THAT MAY CONTRIBUTE TO THEM

…there has been little private or public sector effort to collect and analyze comprehensive information to characterize shortages, quantify their effects, or closely observe the contracting practices that may be driving them.

- Better characterization of shortages

Currently, neither private nor public sector stakeholders quantitatively characterize shortages in terms of their frequency, persistence, or intensity; nor do they quantify the impact of shortages on available treatments in specific therapeutic categories.

- Greater transparency in private sector contracting practices

PHARMALOT

STAT+

The U.S. government doesn't have patent rights to Gilead's remdesivir, despite investing millions in research

News feed from STAT+

By Ed Silverman March 31, 2021

Reprints

American taxpayers may have provided $162 million toward researching remdesivir, but the federal government does not have patent rights for the drug because the work contributed by U.S. scientists did not generate any inventive new uses, according to a government report.

Moreover, Gilead Sciences, which discovered remdesivir, had already reached collaborative research deals with various federal agencies and universities to work on its existing portfolio of patents and patent applications, including for the remdesivir compound. And this "would have left little room for the agencies to generate their own patents, the Government Accountability Office found.

Government Accountability Office (GAO)

U.S. GOVERNMENT ACCOUNTABILITY OFFICE: A Century of Non-Partisan Fact-Based Work

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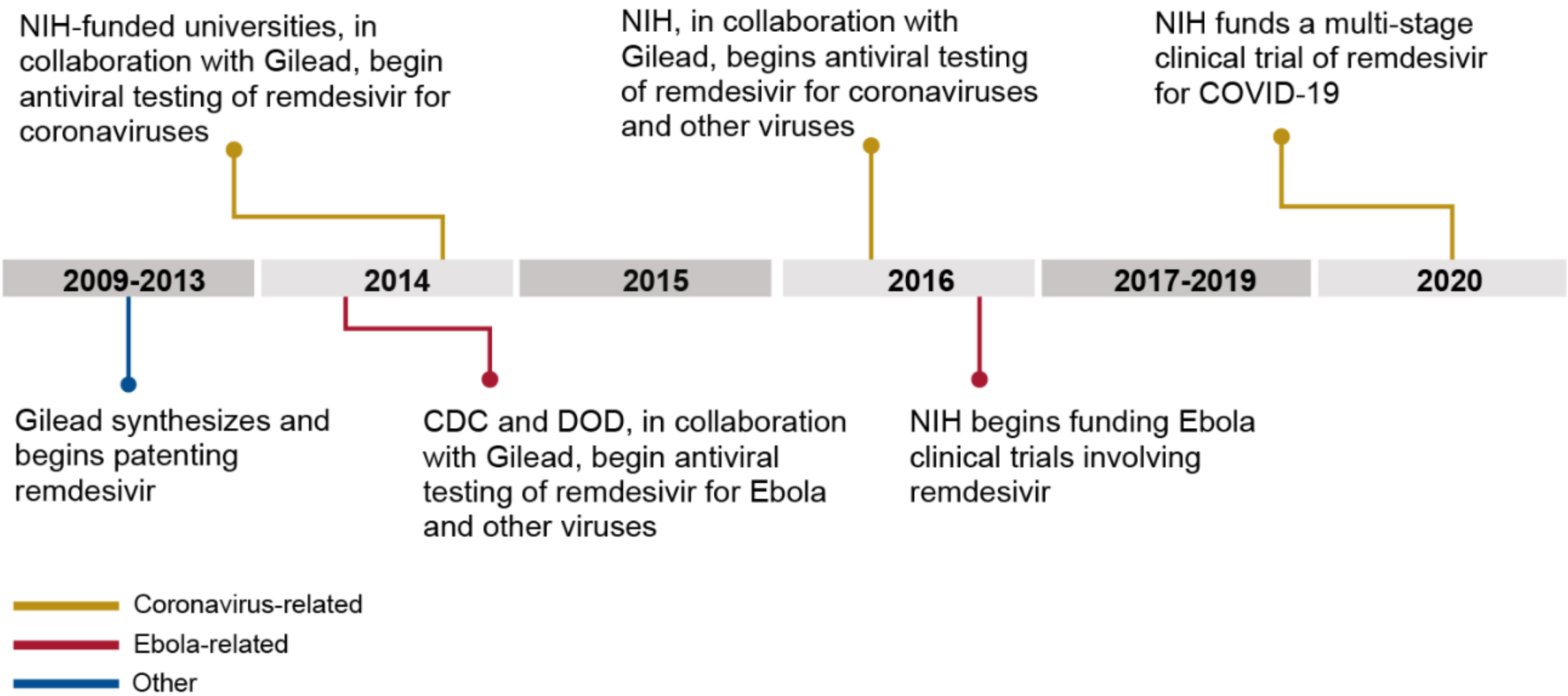
Biomedical Research

Information on Federal Contributions to Remdesivir

GAO-21-272

Published: Mar 31, 2021. Publicly released: Mar 31, 2021.

Figure: Examples of Federal Involvement in the Development of Remdesivir, 2013-2020



Source: GAO analysis of information from the Centers for Disease Control and Prevention (CDC), Department of Defense (DOD), Gilead Sciences (Gilead), and the National Institutes of Health (NIH). | GAO-21-272

Questions?

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bette.finn@library.gatech.edu