Providing Open Access to Government Information
Federal Technical Reports

Presenters

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- **Introduction**
  - Mission
  - Workflow Overview
- **What are Federal Technical Reports?**
  - The Value of Technical Reports
  - How to find content digitized by TRAIL
- **TRAIL Accomplishments**
  - Digitized Series
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- **Join us!**
  - Institutional Membership
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Introduction

Mission
Workflow Overview

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TRAIL

- Began as a Greater Western Library Alliance (GWLA) collaborative project with the Center for Research Libraries
- Developed into a Center for Research Libraries (CRL) Global Resources Network Initiative

Greater Western Library Alliance

Center for Research Libraries
GLOBAL RESOURCES NETWORK

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Mission

TO ENSURE PRESERVATION, DISCOVERABILITY, AND PERSISTENT OPEN ACCESS TO GOVERNMENT TECHNICAL PUBLICATIONS REGARDLESS OF FORM OR FORMAT

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Fulfilling the Mission

- IDENTIFY, ACQUIRE, CATALOG, AND DIGITIZE U.S. GOVERNMENT TECHNICAL REPORTS
- PROVIDE UNRESTRICTED ACCESS TO THESE DIGITIZED TECHNICAL REPORTS THROUGH THE TRAIL SEARCH INTERFACE AND INTERNET SEARCH ENGINES
- IDENTIFY & INVESTIGATE THE LONG-TERM PRESERVATION POSSIBILITIES OF THIS UNIQUE BODY OF LITERATURE

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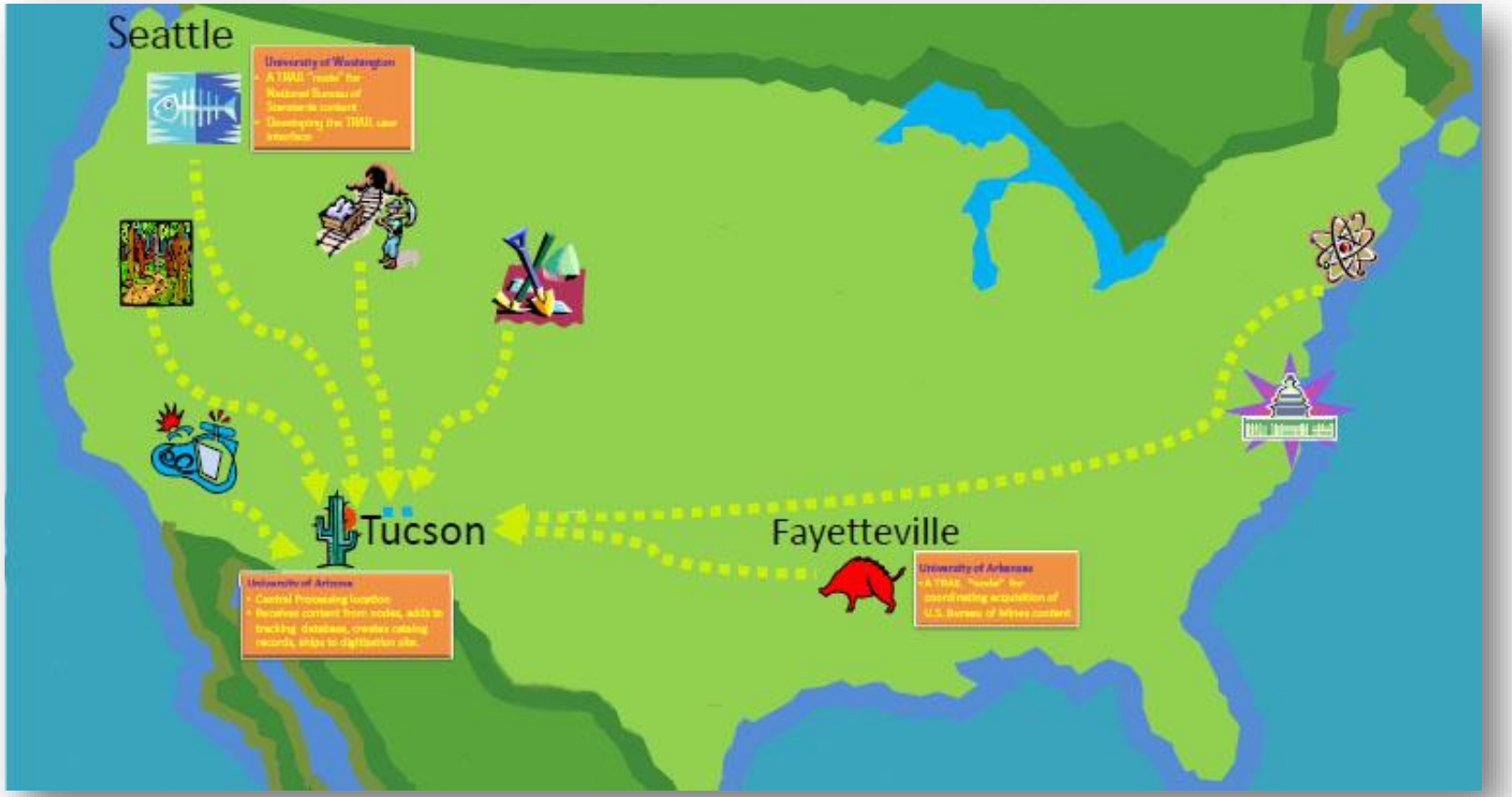
Technical Reports are assembled & organized at institutions across the country before being sent to the University of Arizona.

The University of Arizona is the central processing site and is routinely referred to as “Central” by TRAIL members.



“Central” or The University of Arizona

- receives shipments, assembles collections, and creates Google spreadsheet processing inventories
- creates catalog records for each technical report
- ships processed technical reports to either the University of Michigan or the University of North Texas for digitization

What are Federal Technical Reports?

The Value of Technical Reports
How to find content digitized by TRAIL

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Value of Technical Report Literature

A technical report is a document that describes the process, progress, or results of technical or scientific research or the state of a technical or scientific research problem. It might also include recommendations and conclusions of the research.

- The U.S. government publishes technical reports to communicate progress in government research in technology and science
- They deliver information for technical development to industry and research institutions contributing to the continued growth of science and technology
- They contain valuable information serving specialized audiences of researchers

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Common Problems associated with Technical Report Literature

- Inconsistent or differing dissemination practices
- Limited bibliographic access and control
- Multi-format collections; across multiple physical locations
- Poor quality media distribution; unusable pieces
- No title level cataloging – series level records with no holdings
- Most not available electronically; nor available through ILL

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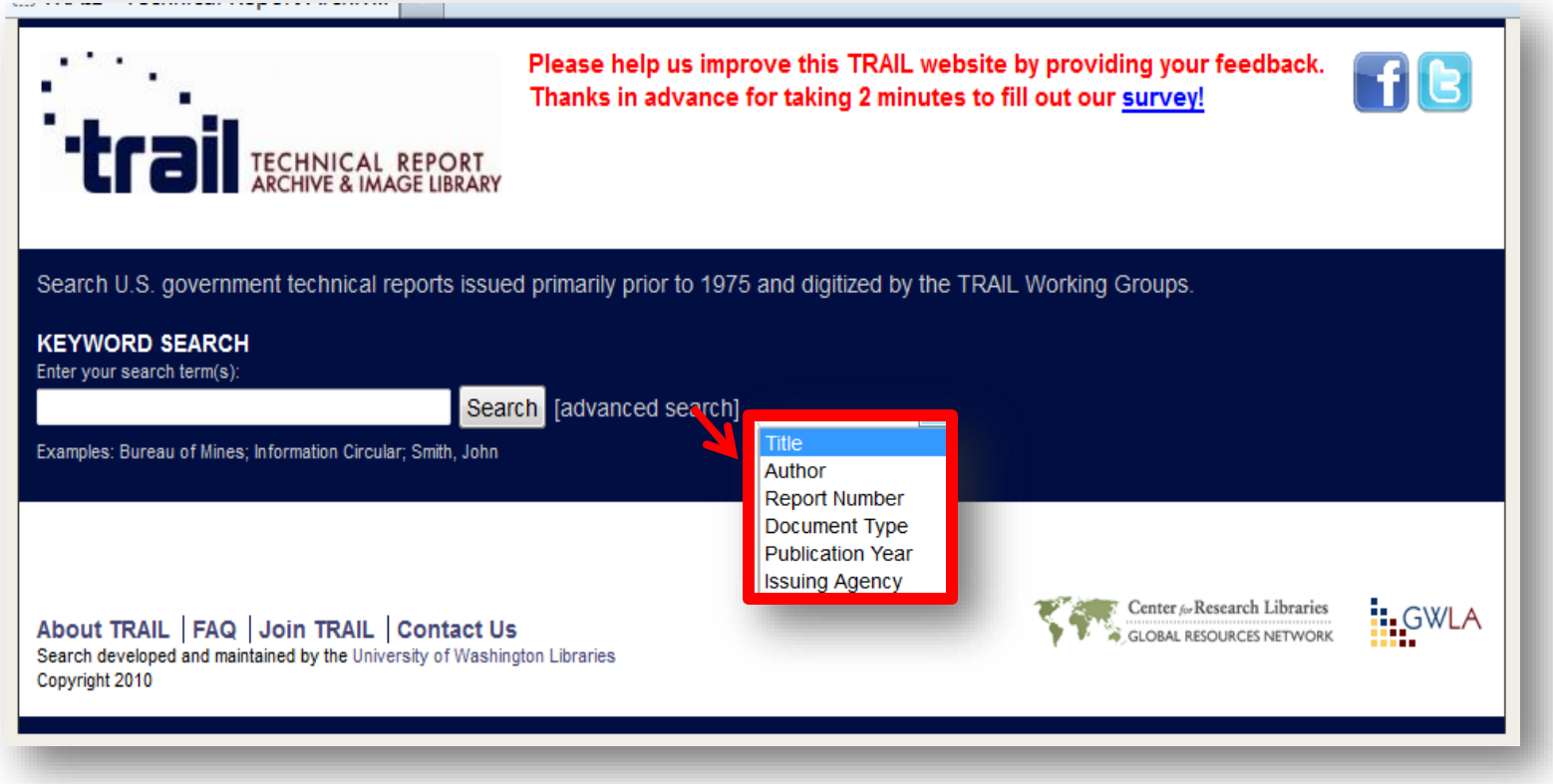
The Search Interface

Use the TRAIL Search Interface to help researchers with their TRAIL content questions



http://www.technicalreports.org

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LibGuide Widget and Code @ TRAILGuides

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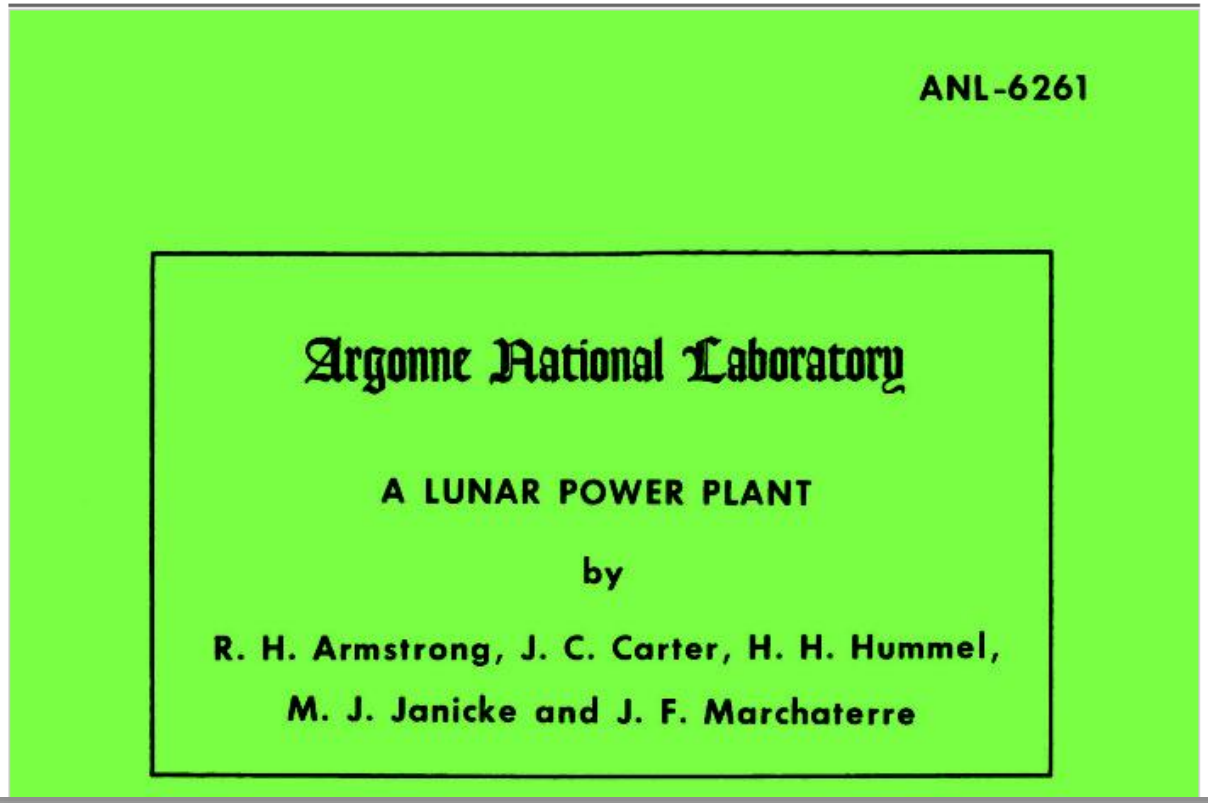
A Lunar Power Plant



ANL-6261

Argonne National Laboratory

A LUNAR POWER PLANT

by

R. H. Armstrong, J. C. Carter, H. H. Hummel,
M. J. Janicke and J. F. Marchaterre

NBS Metric Kit : Official Metric Information

All You Will Need to Know About Metric

(For Your Everyday Life)

10

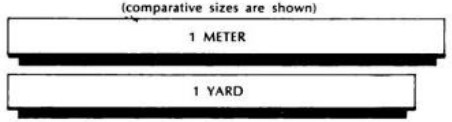
Metric is based on Decimal system

The metric system is simple to learn. For use in your everyday life you will need to know only ten units. You will also need to get used to a few new temperatures. Of course, there are other units which most persons will not need to learn. There are even some metric units with which you are already familiar: those for time and electricity are the same as you use now.

BASIC UNITS

METER: a little longer than a yard (about 1.1 yards)
LITER: a little larger than a quart (about 1.06 quarts)
GRAM: a little more than the weight of a paper clip

(comparative sizes are shown)



25 DEGREES FAHRENHEIT

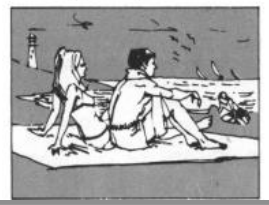
COMMON PREFIXES
(to be used with basic units)

milli: one-thousandth (0.001)
centi: one-hundredth (0.01)
kilo: one-thousand times (1000)

For example:
1000 millimeters = 1 meter
100 centimeters = 1 meter
1000 meters = 1 kilometer

1 LITER

1 QUART



OTHER COMMONLY USED UNITS

millimeter: 0.001 meter — diameter of paper clip wire
centimeter: 0.01 meter — a little more than the width of a paper clip (about 0.4 inch)
kilometer: 1000 meters — somewhat further than ½ mile (about 0.6 mile)
kilogram: 1000 grams — a little more than 2 pounds (about 2.2 pounds)
milliliter: 0.001 liter — five of them make a teaspoon

OTHER USEFUL UNITS

hectare: about 2½ acres
metric ton: about one ton

DEPARTMENT OF COMMERCE

UNITED STATES BUREAU OF MINES
SCOTT TURNER, DIRECTOR

REPORT OF INVESTIGATIONS

THE RESPONSE OF JAPANESE WALTZING MICE AND CANARIES TO CARBON MONOXIDE AND TO ATMOSPHERES DEFICIENT IN OXYGEN

DEPARTMENT OF COMMERCE
BUREAU OF STANDARDS
George K. Burgess, Director

TECHNOLOGIC PAPERS OF THE BUREAU OF STANDARDS, No. 293
[Part of Vol. 19]

CONDENSATION OF WATER FROM ENGINE EXHAUST FOR AIRSHIP BALLASTING

BY

ROBERT F. KOHR, Associate Mechanical Engineer
Bureau of Standards

AUGUST 13, 1925

TRAIL Accomplishments

Digitized Series

TRAIL Guides

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TRAIL Timeline & Accomplishments

2006	GWLA endorses strategic action; 1st TRAIL Meeting
2007	-Pilot collection launched at the Univ. of Hawaii -TRAIL partners with the Univ. of Michigan & Google -TRAIL establishes processes with OCLC
2008	Began scanning content with Google and depositing in HathiTrust
2009	-Created a Facebook page **@TechnicalReportsandImageLibrary** -Established archive at the University of North Texas for non-Google scanned materials
2010	-Became part of the Global Resources Network at CRL -Received LexisNexis/GODORT/ALA "Documents to the People“ Award -TRAIL Search Interface launched; developed & hosted by the University of Washington
2011	Initiated microfiche digitization pilot project
2012	Created Twitter account **@TRAILTechReport** and Wikipedia entry
2014	Reports digitized or harvested reaches 40,000 TRAIL watermark in HathiTrust
2015	Created personal membership option.
2016	Digitized 53,000+ technical reports -- all discoverable! Creation of TRAILGuides (TRAIL LibGuides)

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TRAIL Series Processing Inventories

Collection

Name	Research and Development Progress Report (Office of Saline Water)
Active?	yes
OCLC Symbol	USOSW
Notes	Res. & Dev. Progress Reports Inventory -- https://docs.google.com/spreadsheet /ccc?key=0Ap6t8mks6xa_dHdfVTdRNl9mbGZRcz validated 12/31/13 - MO] TRAIL contact: John Phillips Requested pull of records to create initial OCLC C

The TRAIL Collection Processing Database information is being phased out but the supporting Google spreadsheets that indicate the processing status of series reports will be available directly from TRAIL Guides.

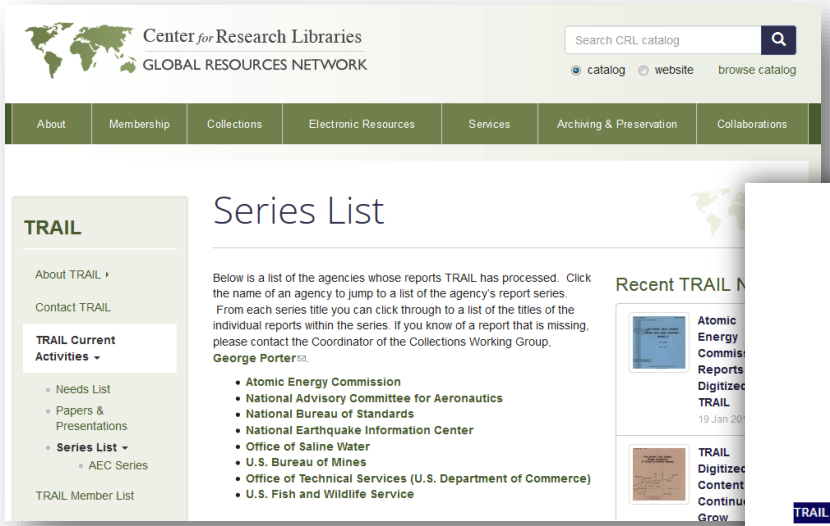
Saline Waters Research & Development Progress Reports Inventory

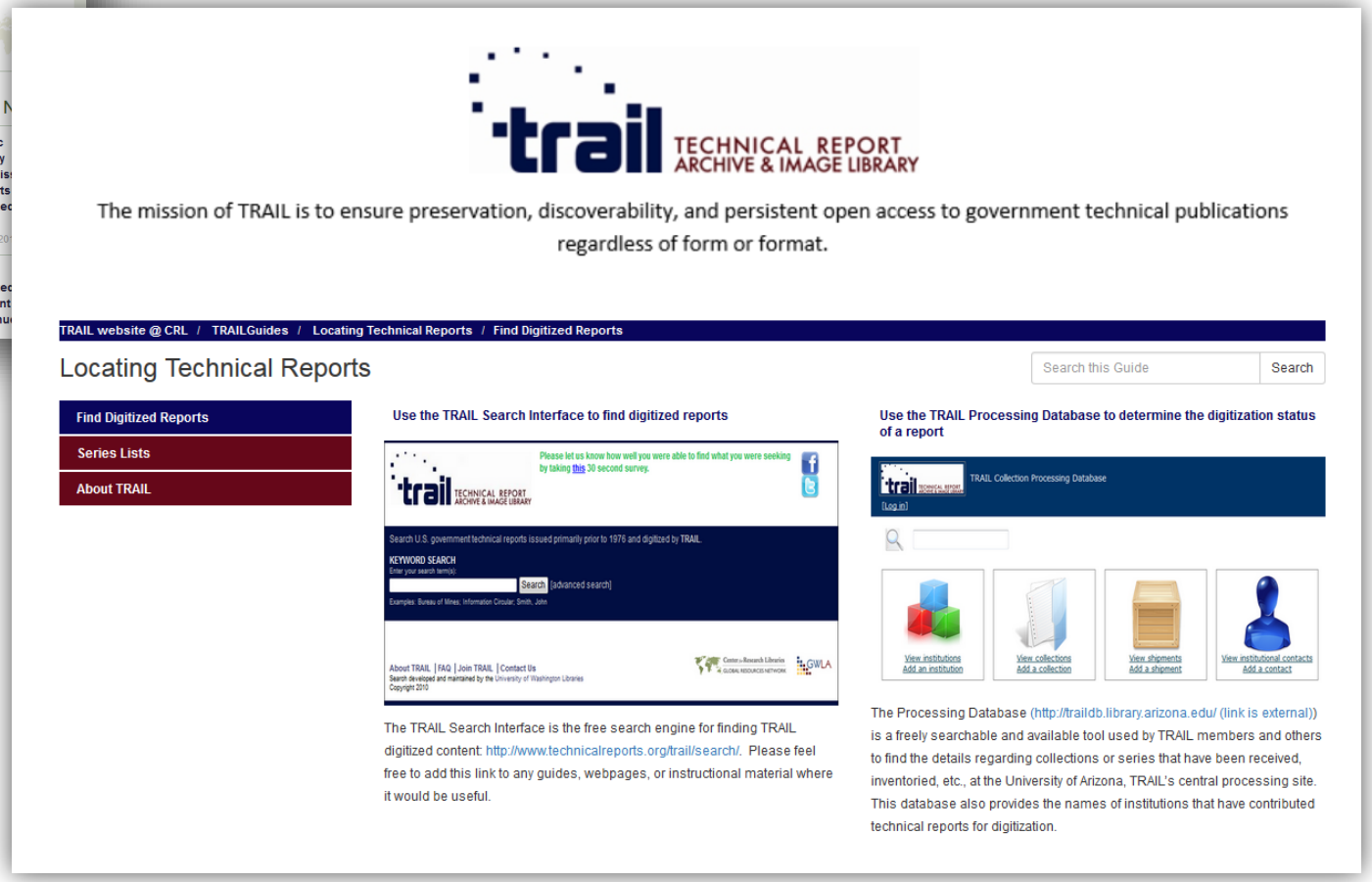
File Edit View Insert Format Data Tools Help View only

Status in HT/UNT

	A	B	C	D	E	F	G	H	
1	**Box No.**	**Barcode No.**	**Item No.**	**Suffix**	**Title**	**OCLC No.**	**Serial Info**	**Comments**	**Status in HT/UNT**
2	USOSW(extra)	39015078494526	772		Experimental study of the structure, thermodiynamics and kinetic behavior of water	39201956			Available HT 9/30/2013
3	USOSWBox008	39015078494005	352		Study of poly(methacrylates) and poly(urethanes) as reverse osmosis membranes : effect of water clustering on transport properties /	1936729			Accessible 9/1/09
4	USOSWBox008	39015078494013	351		Disposal of brine by solar evaporation /	9714938			Accessible 9/1/09
5	USOSWBox008	39015078494021	350		Compressibility and molal volume studies /	18097755			Accessible 9/1/09
6	USOSWBox008	39015078494039	349		Viscosity and conductivity studies /	18097803			Accessible 9/1/09
7	USOSWBox008	39015078494047	348		Drying cellulose acetate reverse osmosis membranes /	18000188			Accessible 9/1/09
8	USOSWBox008	39015078494054	379		Research on porous glass membranes for reverse osmosis /	18138105			Accessible 9/1/09
9	USOSWBox008	39015078494062	380		Influence of strongly bound counter-ions on permselective membranes /	18132413			Accessible 9/1/09
10	USOSWBox004	39015078494070	197		Research on mineral by-products from saline waters /	20852			Accessible 9/1/09
11	USOSWBox008	39015078494088	387		Environmental impact of brine effluents on Gulf of California /	10503689			Accessible 9/1/09
12	USOSWBox008	39015078494096	386		Development of ultrathin membranes /	10573250			Available HT 09/21/201
					Synthesis and evaluation of new membrane				

Series





Series digitization information is currently migrating from the CRL website to our libguides site

TRAIL Guides

http://trailguides.crl.edu

The mission of TRAIL is to ensure preservation, discoverability, and persistent open access to government technical publications regardless of form or format.

Series

Search this Guide | Search

Use this guide to access the processing inventory for each series.

About TRAIL Series Processing Inventories

Series listed are linked to spreadsheets which are the **TRAIL series processing inventories**.

These inventories, which may be downloaded, list individual report titles that have been processed by TRAIL for digitization and provide a link to the digital copy as it becomes available.

If you know of a report that is missing or would like to supply a needed report, please contact the Coordinator of the Collections Working Group.

Note: A digitized report may not be viewable for many reasons due to the original item format, the time it takes to process/ship/digitize, and to copyright issues that preclude public access of the image.

Guide Status

This inventory guide will always be under construction! It is the nature of federal technical reports to cause confusion and wonder. TRAIL strives to provide accurate information about which report series we are digitizing or harvesting and the status of each project.

TRAIL Working Group Member Librarians

Email:

TRAIL@crl.edu

Sinai Wood

Email TRAIL

A Sampling of Series Titles

Name
ACE Waterways Experiment Station Technical Report Y
A (AEC Series)
AAEC(SP) (AEC Series)
ACCO (AEC Series)
ACE Waterways Experiment Station Bulletin
ACE Waterways Experiment Station Contract Report
ACE Waterways Experiment Station Hydraulics Bulletin
ACE Waterways Experiment Station Instruction Report
ACE Waterways Experiment Station Miscellaneous Paper
ACE Waterways Experiment Station Monographs
ACE Waterways Experiment Station Potamology Program P-1 Report
ACE Waterways Experiment Station Research Report
ACE Waterways Experiment Station Soil Mechanics Bulletin
ACE Waterways Experiment Station Technical Bulletin
ACE Waterways Experiment Station Technical Memorandum
ACE Waterways Experiment Station Technical Report
ACE Waterways Experiment Station Technical Report A
ACE Waterways Experiment Station Technical Report C
ACE Waterways Experiment Station Technical Report CERC
ACE Waterways Experiment Station Technical Report CHL

Name
MRC (AEC Series)
MSAR (AEC Series)
MTA (AEC Series)
MUC (AEC Series)
MURA (AEC Series)
N (AEC Series)
NAA (AEC Series)
NACA Advance Confidential Reports (National Advisory Committee for Aeronautics)
NACA Advance Restricted Reports (National Advisory Committee for Aeronautics)
NACA Aircraft Circulars (National Advisory Committee for Aeronautics)
NACA Annual Reports (National Advisory Committee for Aeronautics)
NACA Confidential Bulletins (National Advisory Committee for Aeronautics)
NACA Memorandum Reports (National Advisory Committee for Aeronautics)
NACA Research memorandum (National Advisory Committee for Aeronautics)
NACA Restricted Bulletins (National Advisory Committee for Aeronautics)
NACA Special Reports (National Advisory Committee for Aeronautics)
NACA Technical Memorandum (National Advisory Committee for Aeronautics)
NACA Technical note (National Advisory Committee for Aeronautics)
NACA Technical Reports (National Advisory Committee for Aeronautics)
NACA TR (Report)

Name
Special Scientific Report – Wildlife
Special Scientific Report--Fisheries
SRIA (AEC Series)
SRO (AEC Series)
SROO (AEC Series)
STL (AEC Series)
STR (AEC Series)
SWRI (AEC Series)
Symposium Series (AEC Series)
Technical Paper (United States. Bureau of Mines)
Technical Papers - Bureau of Sport Fisheries
Technical Papers - U.S. Fish and Wildlife Service
Technical Papers of the U.S. Fish and Wildlife Service
Technical progress report (Bureau of Mines)
TEES (AEC Series)
TIB (AEC Series)
TID (AEC Series)
TNCC (AEC Series)
U. S. Bureau of Fisheries - Investigational Report
UCD (AEC Series)

Name
UCID (AEC Series)
UCLA (AEC Series)
UCRL Series (AEC Series)
UCSF (AEC Series)
UH-235P5 (AEC Series)
UNC (AEC Series)
Understanding the Atom (AEC Series)
United States Earthquakes
UR (AEC Series)
USBM (AEC Series)
USGS Bulletin
USGS Circular
USGS Professional Papers
USGS Techniques of Water Resources Investigations
USGS Trace Elements Investigations
USGS Trace Elements Memorandum
USNRDL (AEC Series)
UWFL (AEC Series)
VUF (AEC Series)
VUP (AEC Series)

Join us!

Institutional Membership

Personal Membership

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TRAIL Members

Institutional Members

- Arizona State University
- University of Arizona
- University of Arkansas
- Baylor University
- Brigham Young University
- California Institute of Technology
- University of California, Berkeley
- University of California, San Diego
- University of Cincinnati
- Colorado State University
- University of Colorado
- Georgia Institute of Technology
- U.S. Government Publishing Office
- Harvard University
- University of Houston
- University of Illinois at Urbana-Champaign
- Indiana University
- Iowa State University
- University of Iowa
- Kansas State University
- Massachusetts Institute of Technology
- University of Massachusetts Amherst
- University of Nevada, Las Vegas
- University of New Mexico
- University of North Texas
- University of Notre Dame
- Oklahoma State University
- Oregon State University
- Pennsylvania State University
- University of Pennsylvania
- Princeton University
- Purdue University
- Rice University
- Stanford University
- Texas A & M University
- Texas Tech University
- University of Texas at Austin
- University of Texas at San Antonio
- Utah State University
- Washington State University
- University of Washington
- University of Wisconsin-Madison

Personal Members

- Craig Beard
- Scott Curtis
- Robert Heyer-Gray
- Luis Interiano
- John Napp
- Daureen Nesdill
- Zachary Painter
- Judith Pasek
- Stephen Pomes
- Michael White

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How to Join TRAIL

https://www.crl.edu/grn/trail/about-trail/how-join-trail

Institutions wishing to participate in TRAIL should fill out the TRAIL Participant Agreement. As of FY16, TRAIL members pay an annual membership fee of $3,000. There will be a one-time Project Development Fee of $1,500 for participation in TRAIL.

Individuals who work at institutions that are not institutional members may join TRAIL by filling out the Individual Participant Agreement. There is no membership fee for Individual Members of TRAIL.

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Contribute to TRAIL

TRAIL is a smaller community and volunteers have the chance to be active and have impact.

- Steering Committee
- Communications Working Group
- Processing Working Group
- Membership Working Group
- Collections Working Group

Pictured:
Dan Barkley
John Phillips
Esther Crawford

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TRAIL is looking for additional partners to participate in the project. Institutions, whether large or small, can participate in many ways, including:

- Contributing, soliciting, or acquiring content that can be used in the project's digitization streams
- Identifying and analyzing proposed content for inclusion in the project's collections
- Providing technical support and expertise for the digitization, quality control, interface, or digital archiving
- Sharing need and opportunity to pursue particular collections
- Collaborating with federal agencies to determine digitization strategies for selected public domain content
- Reviewing scanned documents to ensure quality control and accessibility
- Assisting with communications about project activities and needed items
- Answering reference questions regarding access to particular requested documents

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TRAIL Financials

TRAIL's income = institutional member dues.

At present, 42 institutional members and $3000/year/member, TRAIL's annual income is currently $126,000/year. Nine personal members offer their time and support, but do not pay dues.

- TRAIL's costs have historically included:
- Cataloging and graduate student costs at the University of Arizona
- Digitization costs for materials that can't be sent through the Google stream
- Shipping costs associated with moving material from donating libraries to Arizona for cataloging, then from AZ to UNT
- Administrative support costs to CRL
- Modest costs related to the TRAIL annual meeting

- Additional anticipated costs include:
- Modest amount of non-destructive scanning, particularly to complete series
- More scanning from microform, all of which we pay for
- Metadata clean-up associated with harvesting of content from other locations

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Future Directions

- Explore possible partnering opportunities (content, discovery, funding, etc.)
- Identify publicity opportunities for TRAIL (institutional web pages, libguides, etc.)
- Now that an acquisitions and processing workflow has been established, increase the number of reports being added to TRAIL from microfiche (and possibly microcard).
- Harvest appropriate content and complete series with our digitized content
- Improve the workflows of TRAIL and its partners
- Offer better statistics/metrics for TRAIL
- Involve new personal members in the project
- Work to add more members, including government agencies in addition to the Government Publishing Office, which joined in October, 2015

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The Technical Report Archive & Image Library's (TRAIL) is celebrating it's 10th Anniversary in 2016.

TRAIL is committed to saving at-risk government information and open access of federal technical reports.

Through the shared vision of TRAIL institutional and personal members much has been accomplished.

Making it Happen Together: Demonstrating Results

2016 Depository Library Council Meeting & Federal Depository Library Conference

#GPODLC16

Thank you!