

# Ivy College of Business Databases for Advanced Research

Listed here are sources of mass archival numerical and textual data for advanced academic research in business disciplines. Unless otherwise noted, databases cover at least several years and recent data are added on a database-specific schedule, anywhere from daily to annually, sometimes with a lag of one month or more. Selected software tools available on an external data research data portal are also listed. Bibliographic databases and data sources typically not used in faculty and Ph.D. student research in business are not included.

Database subscriptions change over time and should not be assumed to be permanent. This document was last updated on April 21, 2023.

## **Conditions of Use**

ISU subscribes to data and software for academic research and educational use; you must be a current faculty or staff member or student to access them, and access to some is subject to further restrictions as noted below. Our licensing agreements cover academic research and educational uses only. Usage for commercial purposes, including for the benefit of a student's internship employer, is prohibited. Additional conditions may apply to specific resources.

Some resources require the user to create a personal account as noted. There is no cost to the user.

## **Research Portal: Wharton Research Data Services (WRDS)**

Wharton Research Data Services (WRDS) is an access portal that hosts many of the databases to which we subscribe as well as some analytical tools. WRDS includes a web-based system for common data queries, complete machine-readable and downloadable files for subscribed data sets, and an analytical computing environment, with personal and shared data storage, called the WRDS Cloud. The Ivy College of Business funds the subscriptions to WRDS and the databases we access through it.

Access requires an individual or class account; see <http://wrds-web.wharton.upenn.edu> to apply for a new account or transfer a faculty or Ph.D. student WRDS account from a former institution. Account applications are routed to an Ivy College representative for approval. Undergraduate and master's students are permitted access only while taking ISU classes or research credits, or working as a research assistant for a professor who verifies the need for the account (with a limit of one research assistant account per faculty member).

Some WRDS-accessible databases are also available to Ivy faculty and Ph.D. students for searching or downloading directly from the vendor; Professor Arnie Cowan has access information.

## Current Cloud-Based Data Resources: Most Commonly Used

*Most of these are accessible via WRDS (described above); if not, access information is included in the description.*

Database or Software Name	Description	Direct Link
BoardEx	Corporate board and executive data for North American public companies.	<a href="#">BoardEx North America</a>
Compustat (North America and Global)	Financial statement and stock market data on publicly traded companies around the world. Financial statement items are standardized for improved comparability across firms. For U.S. and Canada, segment (geographic and product) reporting data and point-in-time (from originally released statements, thus not reflecting subsequent restatements) data are available.	<a href="#">U.S. And Canada</a> <a href="#">Rest of the World</a> <a href="#">Segment Data</a> <a href="#">Point-in-Time</a>
CRSP Stock and Index Data	Price, volume, dividend, rate of return and other market and issue data for individual common stocks from the main U.S. stock exchanges, with proprietary CRSP indexes of the broad U.S. market, individual exchanges and groups of stocks by risk and size.	<a href="#">CRSP</a> Also see Eventus below.
CRSP-Compustat Merged	Firm- and stock issue-level linking tables for CRSP Stock and Compustat data for U.S. companies. Less used is the ability to load Compustat data into CRSP's database programming structure.	<a href="#">CRSP-Compustat Merged</a>
DirectEDGAR	Search, extraction and table construction tool designed to help academic researchers turn data embedded in regulatory filings on the U.S. Securities and Exchange Commission's EDGAR site into usable data. Not accessible via WRDS; users can self-register with an @iastate.edu address.	<a href="#">Registration</a> <a href="#">Information</a>

## Current Cloud-Based Data Resources: Most Commonly Used -- Continued

Database or Software Name	Description	Direct Link
Eventus	Software for event study methods to analyze stock-price and volume reactions to events, calendar-time portfolio analysis of long-term performance, and more. Assembles needed data from CRSP (in conjunction with Fama-French Factors as needed) or Compustat automatically based on security identifiers and dates provided by the user. WRDS provides web query forms for some common tasks, and Eventus programs can be run via SAS (described below). Eventus was created by Arnie Cowan, currently a professor in Ivy's Finance department.	<a href="#">Eventus</a>
Fama-French Factors	Rates of return on portfolios constructed to represent theoretically priced factors in the stock markets. These and several other data sets are updated frequently and provided free by Professor Ken French on the Dartmouth College website; WRDS maintains copies of the most often used ones.	<a href="#">Fama-French</a>
Execucomp	Executive compensation data for publicly traded companies in the S&P 1500 market index.	<a href="#">Execucomp</a>
I/B/E/S	Data from sell-side (brokerage) stock analyst reports, including earnings forecasts and buy-sell-hold recommendations, for both U.S. and international analysts and stocks. Tables to link U.S. stocks to CRSP are available.	<a href="#">Refinitiv I/B/E/S</a> <a href="#">I/B/E/S-CRSP Links</a>
Insiders	Data on trades by corporate insiders extracted by WRDS from regulatory filings on the U.S. Securities and Exchange Commission's EDGAR website.	<a href="#">WRDS Insiders</a>

## Current Cloud-Based Data Resources: Most Commonly Used -- *Continued*

Database or Software Name	Description	Direct Link
Institutional Holdings	Institutional investor (mutual fund and investment company) holdings of U.S. common stocks, and a limited set of other securities, compiled by Refinitiv (formerly part of Thomson Reuters). Historically referenced as CDA/Spectrum S12 and S34 data. Also see CRSP Mutual Funds below.	<a href="#">Institutional Holdings</a>
SAS	Statistical and econometric analysis, matrix computation, programming and data management software available to run on the WRDS Cloud, via the SAS Studio web interface, and by remotely submitting program code from SAS for Windows (PC SAS).	<a href="#">SAS — WRDS Cloud</a> <a href="#">SAS Studio</a> <a href="#">WRDS SAS via PC SAS</a>

### Other Current Data Resources Accessible via WRDS

To access these resources, unless a specific link is provided, see the [WRDS All Subscriptions page](#), primarily under Third Party Subscriptions. A WRDS [account](#) is required (see above).

Resource Name	Description
Audit Analytics	In-depth data on financial statement audits and auditors of publicly traded companies, plus selected corporate legal, regulatory, bankruptcy, merger and IPO data.
CRSP Mutual Funds	U.S. open-end mutual fund holdings, fees, rates of return and other details. Also see MFLINKS below.
CRSP/Ziman Real Estate	Supplemental data on publicly traded real estate investment trusts (REITs).
Bank Regulatory	Data from supervisory filings by depository institutions in the U.S.
Blockholders	Holders of large blocks of stock in companies from 1996-2001.
CBOE Indexes	Mainly VIX, an investor sentiment measure and predictor of near-term stock market volatility derived from options data.
Contributed Data	Miscellaneous data sets and linking tables made available by individual researchers.

## Other Current Data Resources Accessible via WRDS -- *Continued*

Resource Name	Description
DMEF	Customer buying history for about 100,000 customers of nationally known catalog and non-profit database marketing businesses. No update schedule stated.
Dow Jones	The Dow Jones Averages.
European Short Data	All significant short positions reported by institutional investors under the EU236 Rule.
Federal Judicial Center	Data on all federal, civil, criminal, bankruptcy, and appellate court cases from mid-1969 through the present. Includes tables to link to Compustat.
Federal Reserve Bank Reports	Foreign exchange rates and interest rates.
Macro Finance Society	Data sets used in some past academic research papers on macro finance.
MFLINKS	Tables to link the CRSP Mutual Funds (above) and Refinitiv Mutual Fund Holdings (see Institution Holdings above) databases.
MSCI KLD Stats	Social ratings of publicly traded companies.
MSRB	Municipal Securities Rulemaking Board data on trades in the over-the-counter market for municipal bonds.
OTC Markets	Closing quote, trade and security reference data for stocks trading on the OTCQX, OTCQB, and OTC Pink unlisted markets.
Penn World Tables	Macroeconomic data from various countries. Has not been updated for years.
Peters and Taylor Total Q	An enhanced Tobin's Q measure of corporate investment opportunities.
PHLX	Currency option pricing and implied volatility measures from the Philadelphia Stock Exchange.
Public	A real hodgepodge of intriguing data sets that one can get elsewhere for free, put into a somewhat consistent format by WRDS and kept updated.
Python	Programming language. <a href="#">Access guide</a>
R	Statistical programming language with ready-to-use routines. <a href="#">Access guide</a>

## Other Current Data Resources Accessible via WRDS -- *Continued*

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Resource Name	Description
Research Quotient	Corporate R&D effectiveness measure.
SEC Order Execution	Statistics from 2000-2005 on the quality of U.S. stock markets' order execution and routing.
Subsidiary Data	Parent company and subsidiary relationships for companies filing with the SEC between 1995 and 2019, primarily parsed from Exhibit 21.
Supply Chain	Customer-supplier relationships algorithmically derived from Compustat segment data. See the section "Supply Chain with IDs (Compustat Segment)" on <a href="#">this webpage</a> .
Sustainalytics	Environmental, social, and governance (ESG) data.
TRACE	In-depth data on trades of corporate bonds and U.S. agency bonds. Tables to link to CRSP are available under Linking Suite by WRDS.
Venture Capital	Venture capital and private equity datasets derived from SEC filings. This is part of our WRDS SEC Suite subscription.
WRDS SEC Analytics	Searchable indexes to regulatory filings made by security issuers on the U.S. Securities and Exchange Commission's EDGAR website. Also included are data from 13F filings since 2013 and some text analytics. For a more powerful EDGAR data extraction tool, see DirectEDGAR (not in WRDS).

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## Other Current Data Resources Available for Access Outside of WRDS: Ivy Subscriptions

Database	Description	Access
Audit Analytics	In-depth data on financial audits and auditors of public companies, and some corporate legal, regulatory, bankruptcy, merger and IPO data.	To obtain login credentials, please visit <a href="https://go.auditanalytics.com/academic-registration">https://go.auditanalytics.com/academic-registration</a> ; use your ISU email address. (Alternatively, see WRDS.)
Bloomberg	Financial and governance information on companies and stocks, market indices, fixed-income securities, currencies, commodities, futures and options covering international and domestic markets. Best known for real-time market data and news. Downloading of historical panel data is possible for many data types, with data quantity limitations.	Only through an Ivy-owned laptop configured as a Bloomberg terminal, with a personal account (created through the terminal on first use). Access is restricted to Ivy students and faculty members, and other students assigned to use Bloomberg in Ivy classes. To inquire about availability, use your ISU e-mail account to write to Ivy IT Services at <a href="mailto:bus-it@iastate.edu">bus-it@iastate.edu</a> .
Datastream	Historical, global coverage of equities, stock markets, commodities, futures, currencies, options, bond markets, company financials, and economic data.	Excel plug-in. Obtain a Refinitiv Workspace account (see below), then sign in to <a href="https://my.refinitiv.com">https://my.refinitiv.com</a> . On the far left of the webpage, expand Products and select Software Downloads. Select the red Search Download button, select product family Datastream, then select product Datastream For Office (DFO) Add-in. Click the download symbol. Do not change the pre-filled information in the form that comes up; just check the box and submit.
Refinitiv Workspace	Web portal (with option to use Windows desktop software) for Global New Issues (public and some private offerings of stocks, bonds and other securities) and Mergers and Acquisitions databases. These databases are also marketed by the same vendor for access under the name SDC.	ISU Ph.D. students, faculty members, and research assistants by faculty request, may obtain personal accounts. Class access is also available. Users may be asked to agree to acknowledge Ivy support in research using the data. Request access from Professor Arnie Cowan at <a href="mailto:arnie@iastate.edu">arnie@iastate.edu</a> .
SNL Financial Institutions	Financial data on over 50,000 banks.	Website; personal account setup by vendor required. Limited to ISU Ph.D. students and faculty members. For account, write to Professor Arnie Cowan at <a href="mailto:arnie@iastate.edu">arnie@iastate.edu</a> .

SNL Real Estate

Subscription expiring June 2023. Property-level demographic, occupancy, and mapping data from 1,000+ real estate companies in 45 countries.

Website; personal account setup by vendor required. Limited to ISU Ph.D. students and faculty members. For account, write to Professor Arnie Cowan at [arnie@iastate.edu](mailto:arnie@iastate.edu).

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### **Other Current Data Resources Available for Access Outside of WRDS: ISU Library**

The library website includes the following pages listing non-bibliographic databases of potential value for advanced research in business and related fields. There is some partial overlap among the pages, and they may not list all library-accessible databases of interest.

[Accounting and Finance](#)

[Apparel, Events and Hospitality Management](#)

[Business](#)

[Business Analytics](#)

[Economics](#)