

THE CENTER FOR RESEARCH IN SECURITY PRICES (CRSP) DATA ON WHARTON RESEARCH DATA SERVICES (WRDS)

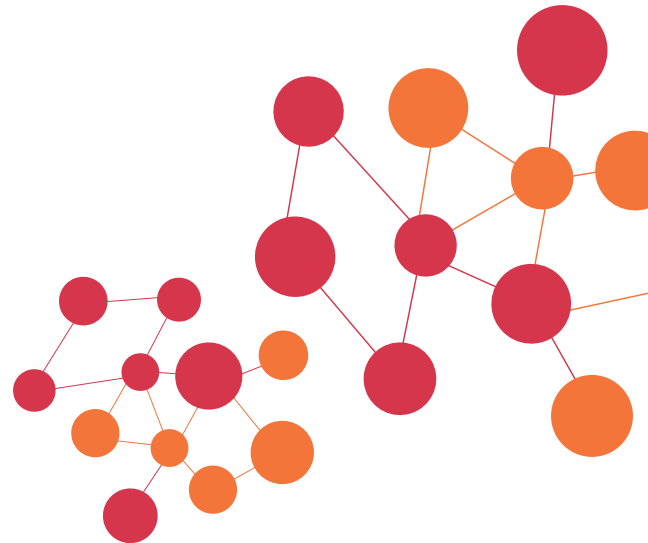
CRSP maintains the most comprehensive collection of security price, return, and volume data for the NYSE, AMEX and NASDAQ stock markets. Additional CRSP files provide stock indices, beta-based and cap-based portfolios, treasury bond and risk-free rates, mutual funds, and real estate data.

US STOCK database provides a unique research source characterized by its unmatched breadth, depth, and completeness. Included: CRSP's unique permanent identifiers backtesting, time-series and event studies, measurement of performance, etc.

HISTORICAL INDICES databases serve as benchmarks for the investment community, and as a foundation for academic research. Created according to clear, unbiased and systematic processes, these indexes undergo rigorous procedures to promote data accuracy, timeliness and consistency. Indices database contains five groups: Stock File Indices, Cap-Based Portfolios, Indices for S&P 500 Universe, Treasury and Inflation (CTI) Indices, and Select Treasury Indices.

US INDEX HISTORY, generated by the investable CRSP Indexes, provides additional market data for scholarly research. The introductory time series includes additional index data, index holdings, Intraday, and end-of-day security data.

US TREASURY AND INFLATION SERIES contain returns and index levels on the US Government Bond Fixed Term Index Series, and the Risk Free Rates File. The US Treasury database begins in 1925 for month-end data and in 1961 for daily data. Over 1.6 million end-of-day price observations for 3,350 US Treasury bills, notes, and bonds and over 101,500 prices for 5,300 month-end issues are included.



SURVIVOR-BIAS-FREE MUTUAL FUNDS

database serves as a foundation for research in and benchmarking for this asset class. As the provider of the only complete database of both active and inactive mutual funds, CRSP leads the way in mutual fund research.

CRSP/COMPUSTAT MERGED

database allows for concurrent database access to CRSP's stock data and Compustat's fundamental data. The CRSP Link accurately maps complex, many-to-many relationships over time between CRSP's unique permanent identifiers (PERMNO and PERMCO), and Compustat's unique permanent identifier (GVKEY).

ZIMAN REAL ESTATE database is a unique research resource whose development merges CRSP experience in academic-quality financial database and indices creation with the Ziman Center's expertise in markets and the collection of real estate data. The Series represents a collaborative effort between the Richard S. Ziman Center for Real Estate at the UCLA Anderson School of Management and The Center for Research in Security Prices at the University of Chicago.

ABOUT CRSP

Since 1960, CRSP has provided research-quality data to scholarly researchers and advanced the body of knowledge in finance, economics and related disciplines. Today, nearly 500 leading academic institutions in 35 countries rely on CRSP data for academic research and to support classroom instructions. Investment practitioners rely on CRSP data to backtest strategies and to benchmark investment performance. More information about these unique and highly regarded datasets can be found in the Research Products section. The CRSP Indexes are investable indexes that include cap-based, industry sector and value-growth indexes. Sixteen of these indexes have been selected by Vanguard as their new benchmarks for US Equity Exchange Traded Funds (ETFs). More information on the investable indexes can be found in the Investment Products section. On January 1, 2020, CRSP spun off from Chicago Booth and became CRSP, LLC. CRSP, LLC is an affiliate of the University of Chicago Booth School of Business. <http://crsp.org>

ABOUT WRDS

Wharton Research Data Services (WRDS) is the leading business intelligence, data analytics, and research platform for global institutions — enabling comprehensive thought leadership, historical analysis, and insight into the latest innovations in academic research.

WRDS democratizes data access so that all disciplines, Accounting, Banking, Economics, ESG, Finance, Healthcare, Insurance, Marketing, and Statistics, can easily search for concepts across the data repository. Partnering with global vendors, **WRDS** hosts 350+TB of data—the broadest collection of data on the most robust computing infrastructure to give users the power to analyze complex information at speeds of up to 400MB per second.

Flexible data delivery options include a powerful web query method that reduces research time; the WRDS Cloud for executing research and strategy development; and the WRDS client server using SAS, Python, R, Stata, Matlab, and more. Our rigorous data review and validation give users the confidence to tailor research and create a wide range of reliable data models.

WRDS' unique array of Services include access to a suite of Analytics tools and Learning Pathways —providing curated, guided resources for Researchers, Instructors, and Information Professionals. Through data, analytics, research and technology, approach your research using real world examples and advance your analysis to answer the most critical questions with your data.

WRDS is a leader in impactful research. Through a partnership with SSRN, WRDS is elevating the visibility of universities and researchers working across an array of fields. The WRDS Research Paper Series is a searchable repository of all papers submitted to SSRN that cite WRDS in their work. In addition, the two organizations have launched the *WRDS-SSRN Innovation Award*[™] to honor rising business schools in the North America, Asia Pacific, and EMEA regions.

WRDS is more than just a data platform. Supporting over 75,000 commercial, academic, and government users at 500+ institutions in 35+ countries, WRDS is the global gold standard in data management, innovative tools, analytics, and research services — all backed by the credibility and leadership of the Wharton School.

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