

SAFE Data Center

Starter's Guide

OptionMetrics

Leibniz Institute for Financial Research SAFE
Sustainable Architecture for Finance in Europe

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1. Go to the WRDS website: <https://wrds-web.wharton.upenn.edu/wrds/>

- Log in with your WRDS account
- If you are a researcher or Ph.D. student at Goethe University Frankfurt and do not yet have a WRDS account, you can request an account by writing an email to: datacenter@safe.uni-frankfurt.de

Sign In

[Sign In](#) [Register](#)

Username

Password

[Register for a WRDS Account](#)

[Forgot your username/password?](#)

[Request Account Transfer](#)

Welcome to WRDS!

Wharton Research Data Services (WRDS) is the award-winning research platform and business intelligence tool for over 40,000+ corporate, academic, government and nonprofit clients at over 400+ institutions in 30+ countries.

WRDS provides the user with one location to access over 250 terabytes of data across multiple disciplines including Accounting, Banking, Economics, Finance, ESG, and Statistics.

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 PCSAS, Matlab, Python and R.

Our Analytics team, doctoral-level support and rigorous data review and validation give clients the confidence to tailor research within complex databases and create a wide range of reliable data models.

WRDS provides access to S&P Capital IQ, CRSP, NYSE, Thomson Reuters, Bureau van Dijk, Global Insight, OptionMetrics and other important business research databases.

From partnerships with data vendors, to our own tools including the WRDS SEC Analytics Suite, WRDS Quant Alpha Platform and the Wharton School's OTIS - WRDS is the global gold standard in data management and research, all backed by the credibility and leadership of the Wharton School.

For additional information, please see the [About section](#).

[Connect with us on Facebook!](#)

2. Click on OptionMetrics

The screenshot shows a navigation interface with three tabs: 'Your Subscriptions' (active), 'Not Subscribed', and 'Your Queries'. Below the tabs is a list of 24 items, each preceded by a right-pointing chevron. The item 'Option Metrics' is highlighted with a red rectangular box.

Your Subscriptions	Not Subscribed	Your Queries
» Bank Regulatory	» Event Study by WRDS	» Peters and Taylor Total Q
» Beta Suite by WRDS	» Fama French & Liquidity Factors	» PHLX
» Blockholders	» Federal Reserve Bank	» Public
» Bureau van Dijk	» Financial Ratios Suite by WRDS	» Research Quotient
» CBOE Indexes	» IBES	» SAS Visual Analytics
» Compustat - Capital IQ	» IBES	» SEC Order Execution
» CRSP	» Markit	» Thomson Reuters
» CUSIP	» MSRB	» TRACE
» DMEF Academic Data	» Option Metrics	» WRDS SEC Analytics Suite
» Dow Jones	» Option Suite by WRDS	
» Efficient Frontier by WRDS	» OTC Markets	
	» Penn World Tables	

3. The OptionMetrics Ivy DB US database consists of several different sub-databases:

- Market
- Options
- Securities

4. For example: Click on “Options”

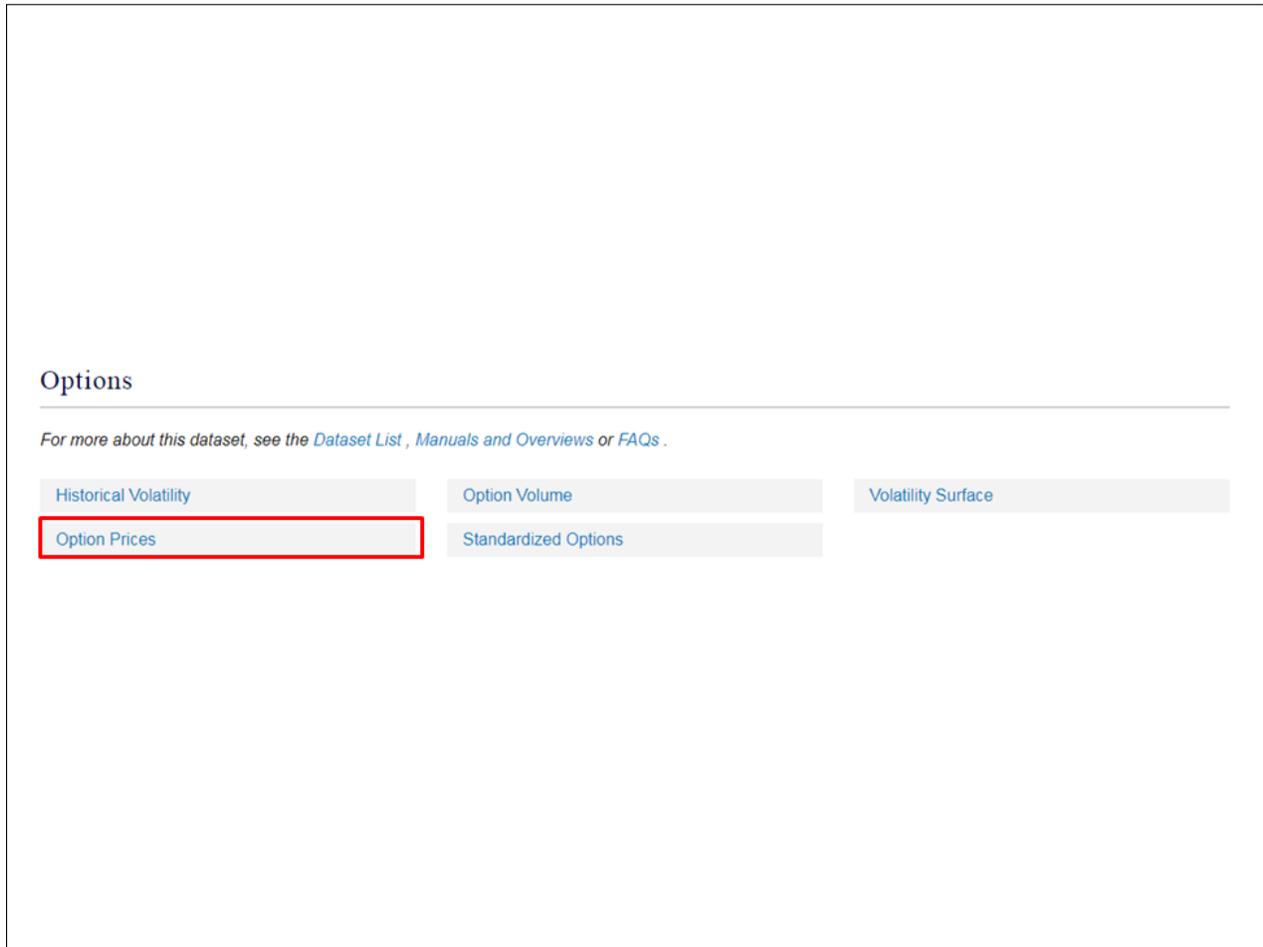
The screenshot displays the OptionMetrics website interface. At the top, the title "OptionMetrics" is followed by a horizontal line. Below this, a link reads "For more about this dataset, see the [Dataset List](#), [Manuals and Overviews](#) or [FAQs](#) .". The main content is divided into two columns: "Ivy DB US" and "Ivy DB Europe". Each column contains three menu items: "Market", "Options", and "Securities". Each item is accompanied by a circular icon with a number. In the "Ivy DB US" column, the "Options" item is highlighted with a red rectangular box. The numbers next to the items are: Market (2), Options (5), and Securities (4) for Ivy DB US; and Market (2), Options (7), and Securities (4) for Ivy DB Europe.

Database	Market	Options	Securities
Ivy DB US	2	5	4
Ivy DB Europe	2	7	4

5. The OptionMetrics Ivy DB US “Options” sub-database consists of several different datasets:

- Historical Volatility
- Option Prices
- Option Volume
- Standardized Options
- Volatility Surface

6. For example: Click on “Option Prices”



7. **Step 1:** Select the date range for which you want to obtain data.

- Example here: January 1, 2015 - August 31, 2015

OptionMetrics - Option Prices

You have 12 saved queries for this dataset.

Step 1: Choose your date range.

Date range

2015-01-01	to	2015-08-31
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8. **Step 2:** Select the companies/securities for which you want to obtain data.

- OptionMetrics via WRDS allows you to select companies/securities based on four different identifiers
 - (a) SECID
 - (b) TICKER
 - (c) CUSIP
 - (d) OPTIONID
- You can select companies/securities in four different ways. Which method is the most appropriate depends on your research purpose.
 - (a) You can manually add company codes
 - (b) You can upload a .txt file containing the company/securities codes.
 - (c) You can chose from a saved codelist (see Option (a)).
 - (d) You can search the entire database
- Example here: Search the entire database.

Step 2: Apply your company codes.
Below are the security IDs (SECID) of several popular indexes:

102456 Dow Jones Industrial Average - DJX
102480 NASDAQ 100 Index - NDX
102491 CBOE Mini-NDX Index - MNX
101499 AMEX Major Market Index - XMI
108105 S&P 500 Index - SPX
109764 S&P 100 Index - OEX
101507 S&P Midcap 400 Index - MID
102442 S&P Smallcap 600 Index - SML
102434 Russell 2000 Index - RUT
107880 NYSE Composite Index (Old) - NYZ
108656 PSE Wilshire Smallcap Index - WSX
102495 CBOE Treasury Yield Option - TYX

SECID TICKER CUSIP **OPTIONID**

Select an option for entering company codes

Please enter Company codes separated by a space.
Example: IBM MSFT DELL [Code Lookup] Save code list to Saved Codes

Upload a plain text file (.txt), having one code per line.

Choose from your saved codelists.

Search the entire database
This method allows you to search the entire database of records. Please be aware that this method can take a very long time to run because it is dependent upon the size of the database.

8. **Step 2 (cont.):** Select the companies/securities for which you want to obtain data.

- You can additionally filter by:
 - Option Type
 - * Call Only
 - * Put Only
 - * Both
 - Exercise Style
 - * American
 - * European
 - * Both
 - Exercise Style
 - * Equity
 - * Index
 - * Both
- And you can additionally limit the range of days to expiration.

Option Type: Call Only Put Only Both

Exercise Style: American European Both

Security Type: Equity Index Both

Choose Days to Expiration (EXDATE - DATE): **(Optional)**

AND OR

9. **Step 3:** Select the variables on which you want to obtain data.

- OptionMetrics classifies data into different categories.
 - Option Information
 - Underlying Security Information
 - Option Price Information
 - Implied Volatility and Sensitivity Information
 -
- You can find a list of all variables included in OptionMetrics by clicking on “Variable Descriptions” on the top of the page.
- Example here: Highest Closing Bid, Lowest Closing Ask

Step 3: Query Variables.
How does this work?

Security Information 0/10 Option Price Information 2/5 Implied Volatility and Sensitivity Information 0/5

Select All (3) Selected Clear All (2)

<input type="radio"/> Volume	<input checked="" type="checkbox"/> Highest Closing Bid
<input type="radio"/> Strike Price Times 1000	<input checked="" type="checkbox"/> Lowest Closing Ask
<input type="radio"/> Cumulative Adjustment Factor	

10. **Step 4:** Select the output format (and compression type and date format)

- You can obtain the output of your query in different data formats.
 - Example here: comma-delimited text (*.csv)
- For very large queries it might be recommendable to additionally chose a compression type.
 - Example here: zip (*.zip)
- You can also chose your preferred date format
 - Example here: YYMMDDn8
- You can also save your query and access it later.

11. Click on “Submit Query”

Step 4: Select query output.
Select the desired [format](#) of the output file. For large data requests, select a compression type to expedite downloads. If you enter your email address, you will receive an email that contains a URL to the output file when the data request is finished processing.

Output Format	Compression Type	Date Format
<input type="radio"/> fixed-width text (*.txt)	<input type="radio"/> None	<input checked="" type="radio"/> YYMMDDn8. (e.g. 19840725)
<input checked="" type="radio"/> comma-delimited text (*.csv)	<input checked="" type="radio"/> zip (*.zip)	<input type="radio"/> DATE9. (e.g. 25JUL1984)
<input type="radio"/> Excel spreadsheet (*.xlsx)	<input type="radio"/> gzip (*.gz)	<input type="radio"/> DDMMYY6. (e.g. 250784)
<input type="radio"/> tab-delimited text (*.txt)		<input type="radio"/> MMDDYY10. (e.g. 07/25/1984)
<input type="radio"/> HTML table (*.htm)		<input type="radio"/> DDMMYY10. (e.g. 25/07/1984)
<input type="radio"/> SAS Windows_32 dataset (*.sas7bdat)		<input type="radio"/> YYMMDDs10. (e.g. 1984/07/25)
<input type="radio"/> SAS Windows_64 dataset (*.sas7bdat)		
<input type="radio"/> SAS Solaris_64 dataset (*.sas7bdat)		
<input type="radio"/> dBase file (*.dbf)		
<input type="radio"/> STATA file (*.dta)		
<input type="radio"/> SPSS file (*.sav)		

E-Mail Address *(Optional)*

Custom Field *(Optional)*

Save this query to myWRDS

10. Your query is now processed. A new tab opens which will contain the download link once your query is completed. Click on the download link.

Data Request Summary

Your output is complete. Click on the link below to open the output file.

[96862658f399f542_csv.zip](#) (3.4 MB, 429419 observations 9 variables)

Download instructions

Internet Explorer and Firefox users... Right-click and select "Save Target As..."

Citation instructions

To cite this data use the following format:

Wharton Research Data Services. "OptionMetrics " wrds.wharton.upenn.edu, accessed 11/19/2017.

Data Request ID	96862658f399f542
Libraries/Data Sets	optionm/opprcd /
Frequency/Date Range	/ 31Aug2015 - 31Aug2015
Search Variable	cusip
Input Codes all item(s)	-all-
Conditional Statements	n/a
Output format/Compression	csv / zip
Variables Selected	BEST_BID BEST_OFFER
Extra Variables and Parameters Selected	