CRSP U.S. STOCK & INDEX RELEASE NOTES

APRIL 2023 MONTHLY UPDATE

These release notes pertain to the April 2023 Monthly release of the CRSP US Stock and Index databases, available in May 2023.

FLAT FILE FORMAT 2.0 (CIZ) FOR STOCK AND INDEX DATABASES

CRSP's Flat File Format 2.0 (CIZ) for the CRSP US 1925 and 1962 Stock and Stock with Index Databases was released mid-2022. **Click here for more information**. As was true for the Flat File Format 1.0 (SIZ), the files are available in SAS, ASCII and R formats.

Please email **support@crsp.org** and indicate your preferred file format. If we do not receive your preferred file format, your organization will not have access to the new Flat File Format 2.0 (CIZ).

CRSPSIFT, CRSPACCESS, AND FORMAT RETIREMENT ANNOUNCEMENT — EFFECTIVE DECEMBER 2024

Existing CRSPSift and CRSPAccess software has officially entered a sunset period, and no additional development or releases are expected. If your organization needs to download CRSPSift or CRSPAccess tools again, please email **support@crsp.org**, as these files were disabled on MOVEit but are available upon request.

The intended last release of the CRSPAccess format files (Stock, Treasury, Mutual Funds, and CRSP/Compustat Merged File (*_cadb.zip), and the Flat File Format 1.0 (SIZ) will be the 202411 cut of data released in December 2024 with data through November 30, 2024. CRSPSift, which uses the legacy CRSPAccess format databases, will not support new data once the CRSPAccess format is no longer released.

Please email questions to **support@crsp.org.**

FILE VERSION SPECIFICS

This table contains version specific information for the CRSP Stock Files with data ending April 2023. It contains the number of securities and information about the maximums of the event arrays.

DATA FREQUENCY	# OF SECURITIES	MAX NAMES	MAX DISTS	MAX SHARES	MAX DELISTS	MAX GROUPS	MAX NASDIN	FIRST PERMNO	LAST PERMNO
DAILY	37178	28	1538	4541	1	4	2926	10000	93436
MONTHLY	37149	28	1538	4541	1	4	2926	10000	93436

CALENDAR	DATE RANGE	DATE INDEX RANGE
DAILY TRADING CALENDAR	19251231-20230428	1-25630
MONTH-END TRADING CALENDAR	19251231-20230428	1-1169
YEAR-END TRADING CALENDAR	19251231-20231229	1-100
QUARTER-END TRADING CALENDAR	19251231-20231229	1-397
WEEKLY TRADING CALENDAR	19260102-20230428	1-5078

APRIL 2023 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
76082	COTERRA ENERGY INC	CHANGED DIVAMT TO $0.15 FROM $0.20 FOR EX-DATE 20220812 AND ADDED SPECIAL DIVIDEND AMOUNT OF $0.50 FOR EX-DATE 20220812; CHANGED DIVAMT TO $0.20 FROM $0.57 FOR EX-DATE 20230315 AND ADDED SPECIAL DIVIDEND AMOUNT OF $0.37 FOR EX-DATE 20230315

CRSP® **| CENTER FOR RESEARCH IN SECURITY PRICES, LLC**
An Affiliate of the University of Chicago Booth School of Business

PERMNO	COMNAM	DESC
14247	F T D COMPANIES INC	CHANGED SIC CODE TO 5992 FROM 9999 AND ADDED NAICS CODE 453110 FOR ENTIRE HISTORY
14929	FOAMIX PHARMACEUTICALS LTD	CHANGED SIC CODE TO 8731 FROM 9999 AND ADDED NAICS CODE 541715 FOR ENTIRE HISTORY
21968	PEAK FINTECH GROUP INC	CHANGED SIC CODE TO 6799 FROM 9999 AND ADDED NAICS CODE 523910 FOR ENTIRE HISTORY
23057	SWVL HOLDINGS CORP	CHANGES SHARES OUTSTANDING TO 118883 FROM 34500 FOR 20220401-20220629
21755	ARIES I ACQUISITION CORP	CHANGED END DATE TO 20230321 FROM 20230331 AND DELIST CODE TO 450 FROM 100.
12961	PINGTAN MARINE ENTERPRISE LTD	REMOVED PRC, ASKHI, BIDLO, BID, ASK, OPEN & VOL FROM PRICE ARRAY ON 20221221
14590	AGROFRESH SOLUTIONS INC	CHANGED ENDDT TO 20230330 FROM 20230331, CHANGED DELIST CODE TO 233, AND INCLUDED DISTRIBUTION CODE OF 3225 AND DISTRIBUTION AMOUNT OF $3.
19833	CALCIMEDICA INC	CHANGED ENDDT TO 20230329 FROM 20230331, AND CHANGED DELIST CODE TO 584.

GROUP EDITS

BEGDT	ENDDT	DESC
2006	2023	CHANGED 'ACQUISITION' TO 'ACQ' FOR 5 SECURITIES FOR DATE RANGES COVERING 2006-2023.
1982	1997	REVIEWED SECURITIES WITH THE SAME PERMCO WHERE SIC CODE INCONSISTENCIES EXISTED. CHANGES WERE MADE TO HAVE CONSISTENCY ON A COMPANY LEVEL FOR 21 SECURITIES FOR DATE RANGES COVERING 1982-1997.

CRSPACCESS PRODUCT INFORMATION

To simplify installation for our subscribers, data are bundled into product groups. Information relevant to each product group is listed in the table below.

PRODUCT NAME	DATABASE	SIZE	INDEXES	PORTFOLIOS	COMPONENTS & DESCRIPTION
CRSP 1925 US STOCK AND INDEX DATABASE	FIZYYYYMM SIZYYYYMM (R/SAS/ASCII)	4.1 GB	ALL CRSP INDEXES AND PORTFOLIO ASSIGNMENTS	ALL PORTFOLIOS	DI - 1925 DAILY US STOCK & INDEX DATABASE MI - 1925 MONTHLY US STOCK & INDEX DATABASE IF - CRSP SUPPLEMENTAL US INDEXES
CRSP 1925 US STOCK	FAZYYYYMM SAZYYYYMM (R/SAS/ASCII)	3.7 GB	CRSP NYSE/ AMEX/ NASDAQ VALUE-WEIGHTED MARKET, CRSP NYSE/ AMEX/ NASDAQ EQUAL-WEIGHTED MARKET, S&P 500 COMPOSITE, NASDAQ COMPOSITE		DA - 1925 DAILY US STOCK MA - 1925 MONTHLY US STOCK IN - CRSP LIMITED US INDEXES
CRSP 1962 US STOCK	A6ZYYYYMM S6ZYYYYMM (SAS/ASCII)	3.3 GB	CRSP NYSE/ AMEX/ NASDAQ VALUE-WEIGHTED MARKET, CRSP NYSE/ AMEX/ NASDAQ EQUAL-WEIGHTED MARKET, S&P 500 COMPOSITE, NASDAQ COMPOSITE		D6 - 1962 DAILY US STOCK M6 - 1962 MONTHLY US STOCK IN - CRSP LIMITED US INDEXES
CRSP 1962 US STOCK AND INDEX DATABASE	AXZYYYYMM SXZYYYYMM (R/SAS/ASCII)	3.6 GB	SEE FIZ	ALL PORTFOLIOS	DX - 1962 DAILY US STOCK & INDEX DATABASE MX - 1962 MONTHLY US STOCK & INDEX DATABASE IF - CRSP SUPPLEMENTAL US INDEXES
CRSP 1925 US INDEXES	IFZYYYYMM SFZYYYYMM	122 MB			IF - CRSP SUPPLEMENTAL US INDEXES
CRSP 10	STZYYYYMM	121KB	ROLLING 10-YEAR WINDOW OF US STOCK DATA		MONTHLY DATA - ROLLING 10 YEARS
CRSP/COMPUSTAT MERGED DATABASE	CMZYYYYMM CFZYYYYMM (FULL PRODUCT) CLZYYYYMM (LINK PRODUCT) (R/SAS/ASCII)	10.37 GB			CM - COMPUSTAT DATA FORMATTED IN CRSPACCESS DATABASE
DAILY & MONTHLY TREASURIES IN CRSPSIFT	TRZYYYYMM	278 MB			TR - DATABASE FORMAT FOR USE WITH CRSPSIFT

PRODUCT NAME	DATABASE	SIZE	INDEXES	PORTFOLIOS	COMPONENTS & DESCRIPTION
DAILY & MONTHLY TREASURIES FILES	TFZYYYYMM	1.75 GB			TF - EXPANDED DAILY AND MONTHLY FILES IN EXCEL, SAS, AND ASCII FORMATS
MUTUAL FUND DATABASE	MFZYYYYMM	10 GB			MF - MUTUAL FUNDS
CRSP/ZIMAN DAILY & MONTHLY REIT	RAZYYYYMM	251 MB			RD - DAILY REITS RM - MONTHLY REITS

DELIVERY METHOD, INSTALLS, AND DATA FORMATS

DELIVERY

CRSP data delivery for all products is available only through the Cloud, utilizing IPSwitch's MOVEit Cloud product. (https://crsp.moveitcloud.com)

If you have not yet accessed your account, or need assistance, contact support@crsp.chicagobooth.edu, or call 312-263-6400, Option 2.

While DVDs are no longer available from CRSP, you are welcome to create your own once you have downloaded the data, and use as long as you have an active license to do so.

ZIP INSTALLS

CRSP uses a zip process for data installation. ZIP utilities that are standard on all platforms should work to unzip the databases. On Windows computers, CRSP recommends using 7-ZIP, which can be downloaded from this site: http://www.7-zip.org/

Several important items to note follow:

- All directories are extracted to lower case letters. For example: C:\crspdata\miz201308
- All Windows Users: Extracting a zipped file does not create an installed program in Windows. It will not show in the Windows Control Panel. When uninstalling the data, just delete the directories that contain the detailed files
- Red Hat Linux Users: If your version of Red Hat is earlier than 6.0, you will need to install an updated version of the "File Roller" program in order to install the data

EZIP FILE STRUCTURE AND PROCESS

WINDOWS 7/XP PRODUCTS:

PRODUCT LABEL	PRODUCT NAME	FILE NAME
A6Z1_YYYYMM_SLD	CRSP 1962 US STOCK	A6ZYYYYMM_CADB.ZIP
AXZ1_YYYYMM_SLD	CRSP 1962 US STOCK AND INDEX	AXZYYYYMM_CADB.ZIP
FAZ1_YYYYMM_SLD	CRSP 1925 US STOCK	FAZYYYYMM_CADB.ZIP
FIZ1_YYYYMM_SLD	CRSP 1925 US STOCK AND INDEX	FIZYYYYMM_CADB.ZIP
IFZ1_YYYYMM_SGD	CRSP 1925 INDEXES	IFZYYYYMM_CADB.ZIP

RED HAT LINUX PRODUCTS:

PRODUCT LABEL	PRODUCT NAME	FILE NAME
A6Z1_YYYYMM_SLD	CRSP 1962 US STOCK	A6ZYYYYMM_CADB.ZIP
AXZ1_YYYYMM_SLD	CRSP 1962 US STOCK AND INDEX	AXZYYYYMM_CADB.ZIP
FAZ1_YYYYMM_SLD	CRSP 1925 US STOCK	FAZYYYYMM_CADB.ZIP
FIZ1_YYYYMM_SLD	CRSP 1925 US STOCK AND INDEX	FIZYYYYMM_CADB.ZIP
IFZ1_YYYYMM_SGD	CRSP 1925 INDEXES	IFZYYYYMM_CADB.ZIP

FLAT FILE PRODUCTS:

PRODUCT NAME	FILE NAME
SAS ZIP	S*ZYYYYMM_SAS.ZIP
ASCII ZIP	S*ZYYYYMM_ASCII.ZIP
R ZIP	S*ZYYYYMM_R.ZIP

STEPS TO INSTALL:

- From the directory containing your downloaded zip file, right click (in Windows) or run File Roller (in Red Hat)
- Set the extract destination to the current higher level directory where data is normally stored and unzip will add the rest of the path (default is C:\ in Windows or /home in Red Hat)
- For example, in Windows, extracting to C:\ will install the data under C:\crspdata

Contact CRSP Client Services for assistance at: support@crsp.chicagobooth.edu or call 312-263-6400, Option 2.

SETTING ENVIRONMENT VARIABLES

The zip process will not automatically set environment variables for use with command line tools. The following steps will do so.

NOTE: CRSPSift does not use and therefore does not require environment variables.

<u>LINUX</u>

NOTE: The new zip installs are now saving to directories with lower case letters — for example, `~/crspdata/diz201308`

Check the current state of the environment variables by entering this command: `env | grep crsp`

- If you have admin privileges on your machine, open the .profile file, and make updates to the following lines to update the paths for the new data installed:
  - CRSP_DSTK=<full path name>/<daily stock directory> (*example:* `CRSP_DSTK=~/crspdata/diz201308`)
  - CRSP_MSTK==<full path name>/<monthly stock directory> (*example:* `CRSP_DSTK=~/crspdata/miz201308`)
  - CRSP_IND=<full path name>/<index directory> (*example:* `CRSP_IND=~/crspdata/ifz201308`)
- If you are using the bash shell (or any Bourne-style shell), enter the same commands above and export each one. This will make changes for your current session only and does not save to the .profile file.
- A shell script is available to make changes that can be reused for each update done. Note that this will only make changes to your current session and does not save to the .profile file.
  - Navigate to where the CUPL tools are loaded and then enter: `cd accbin`
  - Start the script by entering: `./crsp_setup.sh`
  - The script will prompt for the following:
    - File name (*will be appended with* `.kshrc`)
    - Top level directory (this should be where CUPL tools are located (*example:* `~/crsp`)
    - Scratch directory for error messages — name can be anything
    - Enter path for daily stock directory (*example:* `~/crspdata/diz201308`)
    - Enter path for monthly stock directory (*example:* `~/crspdata/miz201308`)
    - Enter path for index directory (*example:* `~/crspdata/ifz201308`)
    - Enter path for CCM directory — enter to leave blank
    - Enter path for CST directory — enter to leave blank
    - Execute script by running: `. ./<file name created above>.kshrc` (*note there is a space between the two dots*)

The CRSP Client Environment utility provides users a way to check the location of the software and to set environment variables. The utility can be started by locating it under installed programs CRSPAccess/CRSP Client Environment, or by navigating to the /accbin folder where the CUPL tools are installed and running: Client_Environment.exe (screen shot is displayed below). After making any changes, be sure to log off and back into Windows for the settings to be saved.

Note: For subscribers of the CRSP Compustat Merged database, additional CCM database environments will be displayed for the location of the Compustat data.