

STOCK & INDEX RELEASE NOTES

MARCH 2019 QUARTERLY UPDATE

These release notes pertain to the March 2019 Quarterly release of the CRSP US Stock and Index databases, available in April 2019.

MARCH 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
92872	HANDY & HARMAN LTD	Changed New Permno to 8532 from -8532 from delisting array on 20171012
17904	TITAN MEDICAL INC	Changed sharecode to 12 from 11 throughout entire history.

FEBRUARY 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
17441	EXCHANGE LISTED FUNDS TRUST	Ticker changed to JPBI from JBRI for 20181101-present
80711	APARTMENT INVESTMENT & MGMT CO	Added Class A for entire history
89856	WOORI FINANCIAL GROUP INC	Changed shares outstanding to 3260 from 1190 for 20121231-20131230, to 754 from 1190 for 20131231-20140521, to 633 from 998 for 20140522-20141230, to 571 from 998 for 20141231-20151230, to 783 from 998 for 20151231-20161229, to 779 from 998 for 20161230-20171228 and to 1140 from 998 for 20171229-present
15394	MAJESCO	Changed exchange code to 2 from 1 and primary exchange to A from N for entire history
91201	INDIA GLOBALIZATION CAPITAL INC	Added zero name line for period 20181029-20190225 to reflect off exchange trading.
17778	BERKSHIRE HATHAWAY INC DEL	Added BIDLO prices on 19860203, 19860205, 19860206, 19860207, 19860212, 19860218, 19860219, 19860220, 19860224, 19860226 & 19860228

JANUARY 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
17942	KEURIG DR PEPPER INC	Removed distribution on ex-date 20180710
92618	DR PEPPER SNAPPLE GROUP INC	Changed distribution code to 3225 from 1272, factor to adjust price to -1 from 0, factor to adjust shares to -1 from 0, removed declare date, changed record date to 20180709 from 20180706, pay date to 20180709 from 20180710 & acquiring company number to 56438 from 0 for distribution on ex-date 20180710
18326	WEIDAI LTD	Added all data for permno 18326 from 20181115-present
79996	MILLICOM INTL CELLULAR SA	Added zero name line for period 20110531-20190108 to reflect off exchange trading.
89475	SANOFI	Shares outstanding have been updated from 3/31/2009 - 1/31/2019.
75269	DYNEX CAPITAL INC	Changed shares outstanding to 55832 from 65644 for 20171229-20180227, to 55788 from 55832 for 20180228-20180328, to 56906 from 66906 for 20180629-20180730 and to 57512 from 66906 for 20180731-20180830
84788	AMAZON COM INC	Shares outstanding edit to 488969 from 484000 for 20181017-20181231.
44683	CTRIIP COM INTL LTD	Shares outstanding edit to 486916 from 465916 for 20180928-20181231.

GROUP EDITS

BEGDT	ENDDT	DESC
1926	1993	Change ASKHI, BIDLO or OPENPRC for 30 records where ASKHI > 2500 and BIDLO < 2000

FILE VERSION SPECIFICS

This table contains version specific information for the CRSP Stock Files with data ending March 2019. It contains the number of securities and information about the maximums of the event arrays.

FILE CODE	# OF SECURITIES	MAX NAMES	MAX DIST	MAX SHARES	MAX DELISTS	MAX GROUPS	MAX NASDIN	FIRST PERMNO	LAST PERMNO
DAZ	33127	39	1538	2949	1	4	2664	10000	93436
MAZ	33099	39	1538	2949	1	4	2664	10000	93436

CALENDAR	DATE RANGE	DATE INDEX RANGE
Daily trading calendar	19251231-20190329	1-24602
Month-end trading calendar	19251231-20190329	1-1120
Year-end trading calendar	19251231-20201231	1-96
Quarter-end trading calendar	19251231-20201231	1-381
Weekly trading calendar	19260102-20190329	1-4865

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	FIZyyyyymm SIZyyyyymm (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	FAZyyyyymm SAZyyyyymm (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	A6Zyyyyymm S6Zyyyyymm (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	AXZyyyyymm SXZyyyyymm (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	IFZyyyyymm SFZyyyyymm	122 MB			IF - CRSP Supplemental US Indexes
CRSP/Compustat Merged Database	CMZyyyyymm	10.37 GB			CM - Compustat Data formatted in CRSPAccess Database
Daily & Monthly Treasuries in CRSPSift	TRZyyyyymm	278 MB			TR - Database format for use with CRSPSift
Daily & Monthly Treasuries Files	TFZyyyyymm	1.75 GB			TF - Expanded daily and monthly files in EXCEL, SAS, and ASCII formats
Mutual Fund Database	MFZyyyyymm	10 GB			MF - Mutual Funds
CRSP/Ziman Daily & Monthly REIT	RAZyyyyymm	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

ZIP 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	fizyyyyymm_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	fizyyyyymm_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

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.

LINUX

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_MSTK=~ /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*)

WINDOWS:

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 /acbin 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.

The screenshot shows the 'CRSP Client Environment: (CUPL_ver322 64-bit)' window. It contains several sections for setting directories:

- CRSP Root**: CRSP Root Directory. This folder/directory contains the CRSP root subfolders that will allow the CRSP utilities to function properly. Path: `C:\crsp\`
- CRSP Work**: CRSP Work Directory. This folder/directory is used for storage of temporary files, log files and contains subfolders that may hold user created files. Path: `C:\crsp\`
- CRSP Daily Stock**: CRSP Daily Stock Database Directory. Path: `C:\crspdata\diz201308`
- CRSP Monthly Stock**: CRSP Monthly Stock Database Directory. Path: `C:\crspdata\miz201308`
- CRSP Compustat CCM**: CRSP Compustat CCM Database Directory. Path: `C:\crspdata\CMZ201308\`

At the bottom, there is a red warning message: **Administrator privileges are required to set system level environment variables.** and three buttons: **Do**, **Remove**, and **Exit**.