STOCK & INDEX RELEASE NOTES
JUNE 2019 QUARTERLY UPDATE

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

JUNE 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
18514	B RILEY PRINCIPAL MERGER CORP	Added share class A for entire history
18656	IDEAYA BIOSCIENCES INC	Name change from I D E A Y A BIOSCIENCES INC to IDEAYA BIOSCIENCES INC for entire history
18653	TIDAL E T F TRUST	Changed Nasdaq company number from 60077051 to 60077016 for entire history
18355	TIDAL E T F TRUST	Changed Nasdaq company number from 60077051 to 60077016 for entire history
18716	TIDAL E T F TRUST	Changed Nasdaq company number from 60077051 to 60077016 for entire history
18538	TIDAL E T F TRUST	Changed Nasdaq company number from 60077051 to 60077016 for entire history
18537	TIDAL E T F TRUST	Changed Nasdaq company number from 60077051 to 60077016 for entire history
89182	BLACKROCK MUN 2018 TERM TR	Changed distribution code to 2245 from 2255, factor to adjust price and factor to adjust shares to 0 from -1 for distribution on ex-date 20181214
89183	BLACKROCK NY MUN 2018 TERM TR	Changed distribution code to 2245 from 2255, factor to adjust price and factor to adjust shares to 0 from -1 for distribution on ex-date 20181217
89184	BLACKROCK CALIF MUN 2018 TERM TR	Changed distribution code to 2245 from 2255, factor to adjust price and factor to adjust shares to 0 from -1 for distribution on ex-date 20181217

GROUP EDITS

BEGDT	ENDDT	DESC
20110101	20181231	Researched ADR securities with missing distributions data. Added values for 11 securities from 2011-2018.
1928	2008	Changed ASKHI, BIDLO, BID, ASK or OPEN prices for 29 records where there were large difference in price comparisons.

MAY 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
17404	BARCLAYS PLC	Changed share code to 7 from 73 for entire history. Removed from subscriber database.
17405	BARCLAYS PLC	Changed share code to 7 from 73 for entire history. Removed from subscriber database.
17616	U B S AG	Changed share code to 7 from 73 for entire history. Removed from subscriber database.
17617	U B S AG	Changed share code to 7 from 73 for entire history. Removed from subscriber database.

APRIL 2019 DATA EDITS

INDIVIDUAL EDITS

PERMNO	COMNAM	DESC
16879	CLEMENTIA PHARMACEUTICALS INC	Changed Sharecode to 12 from 11 for entire history.

PERMNO	COMNAM	DESC
16568	HUNTER MARITIME ACQUISITION CORP	Removed halt record for 20190327-20190329 and added delisting information on 20190326
17797	EURODRY LTD	Changed shares outstanding to 2254 from 11274 for 20180524-20181230 and to 2280 from 11274 for 20181231 to present
12745	N G L ENERGY PARTNERS LP	Company name change from N G L ENERGY PARTNERS L P to N G L ENERGY PARTNERS LP
90682	DYADIC INTERNATIONAL INC	Added zero name line for period 20070424-20190416 to reflect off exchange trading.
58675	PARKER DRILLING CO	Added zero name line for period 20181213-20190402 to reflect off exchange trading.
90384	MECHEL P A O	Changed shares outstanding to 86377 from 44406 for 20160331-20170330, 82267 for 20170331-20171228, to 82267 from 36958 for 20171229-20180328, to 70757 from 36958 for 20180329-20181230 and to 66840 from 36958 for 20181231-present
12680	SEQUANS COMMUNICATIONS S A	Changed shares from 34522 to 34380 for 20120323-20130321, to 44388 for 20130322-20140420, to 58891 for 20140321-20150409, to 58907 for 20150410-20160421, to 59028 for 20160422-20170323, to 74904 for 20170324-20180405 and to 94242 for 20180506-present
14936	REWALK ROBOTICS LTD	Changed shares outstanding to 48049 from 35782 for 20181120-20181230 and to 89328 from 73094 for 20190225-20190331
18143	LINDE PLC	Added to the SP500 Constituent list (group 16) for 20181031-present.

GROUP EDITS

BEGDT	ENDDT	DESC
2014	2019	Reviewed securities where cusip field begins with an alphabetic character and share code does not represent foreign incorporation. Changed share code for 10 securities to reflect their incorporation outside the US.
20180101	20190329	Researched shares outstanding for securities without recent shares outstanding data. Added shares outstanding values for 86 securities from 2018-2019

FILE VERSION SPECIFICS

This table contains version specific information for the CRSP Stock Files with data ending June 2019. 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	33313	39	1538	3012	1	4	2679	10000	93436
Monthly	33285	39	1538	2992	1	4	2672	10000	93436

CALENDAR	DATE RANGE	DATE INDEX RANGE
Daily trading calendar	19251231-20190628	1-24665
Month-end trading calendar	19251231-20190628	1-1123
Year-end trading calendar	19251231-20201231	1-96
Quarter-end trading calendar	19251231-20201231	1-381
Weekly trading calendar	19260102-20190628	1-4878

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 (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 (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 (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/Compustat Merged Database	CMZyyyymm	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
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

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	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

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.
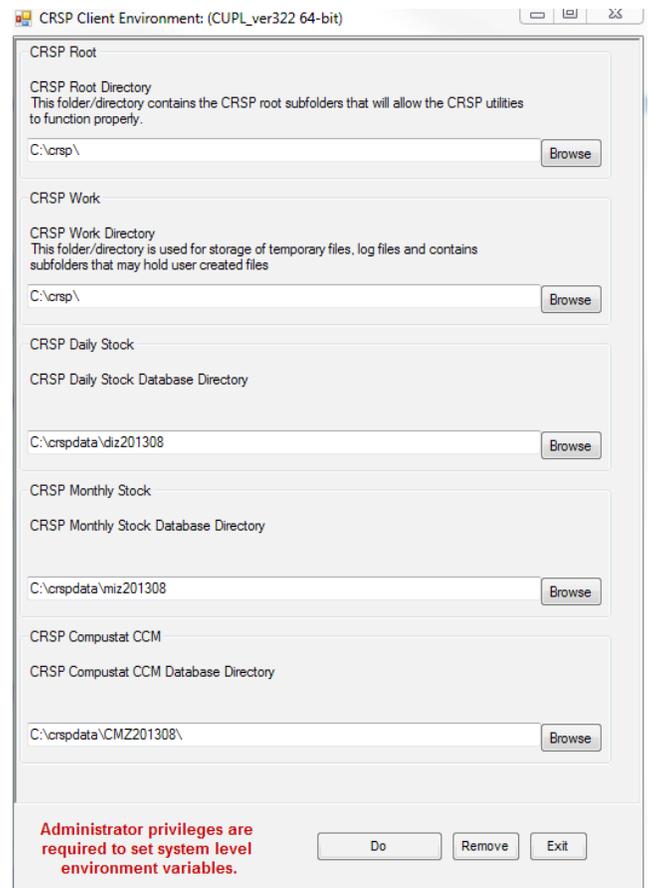
SETTING ENVIRONMENT VARIABLES

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_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*)

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 /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.