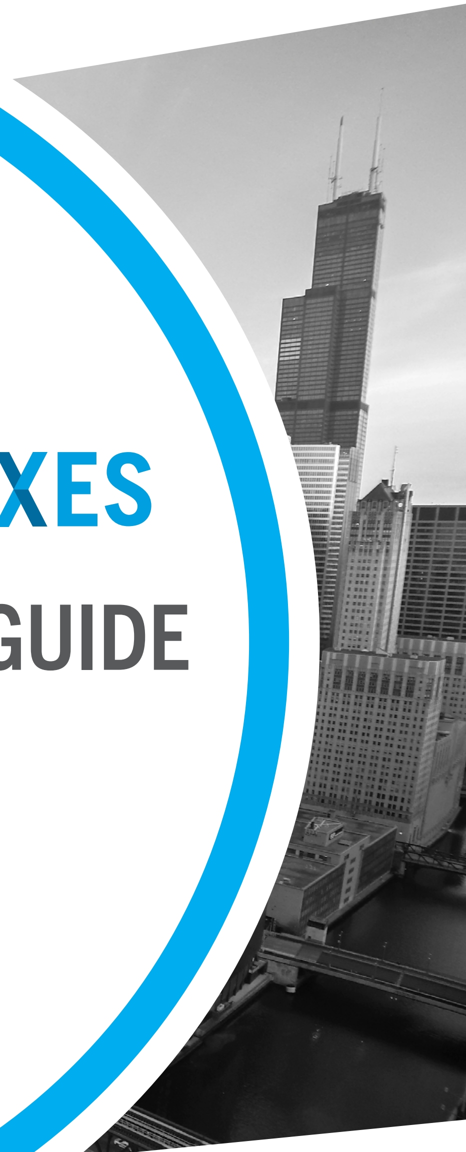

CRSP® MARKET INDEXES

INDEX FILE DESCRIPTION GUIDE

DIRECT CLIENT FEED

CRSP® CENTER FOR RESEARCH IN SECURITY PRICES

An Affiliate of the University of Chicago

CENTER FOR RESEARCH IN SECURITY PRICES
An Affiliate of the University of Chicago

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FTP FILE OVERVIEW

FTP File Name	FTP Folder	Layout/Notes	Period Covered	Availabilty
crsp_index_levels_ YYYYMMDD.txt	/index_levels	See index levels worksheet	Day T End of Day (market close)	Daily by 7:00 PM ET
crsp_index_constituents_ open_V2_YYYYMMDD.txt	/icl_open	See constituent open worksheet	Day T+1 Beginning of Day (market open)	Daily by 7:00 PM ET
crsp_index_constituents_ close_V2_YYYYMMDD.txt	/icl_close	See constituent close worksheet	Day T End of Day (market close)	Daily by 7:00 PM ET
crsp_index_constituents_ open_PF_V2_YYYYMMDD.txt	/icl_open_proforma	See constituent open worksheet	Ranking Date through the last Transitional Reconstitution Date	Sunday following Ranking through the last Transitional Reconstitution Date
crsp_index_constituents_ close_PF_V2_YYYYMMDD.txt	/icl_close_proforma	See constituent close worksheet	Ranking Date through the last Transitional Reconstitution Date	Trading Day following Ranking through the last Transitional Reconstitution Date
crsp_index_constituents_ open_Proj_V2_YYYYMMDD.txt	/icl_open_proforma	See constituent open projection worksheet	Transitional Reconstitution Dates	Sunday following Ranking through the last Transitional Reconstitution Date
crsp_indexchanges_ YYYYMMDD_releasetime.txt	/index_changes	See index changes worksheet	Day T and Day T+1	Expected release times daily (9:30 AM, 10:30 AM, 12:30 PM, 1:30 PM, 2:30 PM, 5:00 PM, 5:30 PM, 6:10 PM, 6:30 PM). All times are ET
crsp_indexchanges5_ YYYYMMDD_releasetime.txt	/index_changes5	See index changes worksheet	Day T through Day T+5	Expected release times daily (9:30 AM, 10:30 AM, 12:30 PM, 1:30 PM, 2:30 PM, 5:00 PM, 5:30 PM, 6:10 PM, 6:30 PM). All times are ET
History_index_levels	/history_index_ levels/YYYY		Back To Index Inception	Updated quarterly
History_icl	/history_icl/YYYY	Includes all constituent history including Pro-forma ("PF") and Projection ("Proj") files	Back To Index Inception	Updated quarterly
crsp_index_levels_osv. YYYYMMDD.txt	/index_levels_osv	Opening Settlement Values (OSV). See OSV index levels worksheet.	Day T End of Day (component open values through market close)	Daily by 7:00 PM ET

Note: Clients with licenses without access to CUSIP will have access to FTP files with "NC_" before the effective date in the file name, found in FTP folders with "_nc" at the end of the folder name. The CUSIP field in any of these files will be blank and the change description in the Index Changes file will not describe payouts or other changes in terms of CUSIP.

DATA SOURCES SUMMARY

Data Sources	Notes	Technical Information	Availability	Archiving
FTP Production FTP Disaster Recovery	See FTP File Overview for details	ftp.crspmi.org (PROD URL) ftp2.crspmi.org (DR URL) 66.35.41.42 (PROD IP) 38.112.41.49 (DR IP) **using IP is not suggested as this is more subject to change than URL so when creating FTP scripts it is suggested to use URL, not IP**	Daily by 7:00 PM ET	Index Levels, ICL Close, ICL Open, ICL Close Pro Forma, ICL Open Pro Forma and ICL Open Projection and Index Changes files are kept for 11 business days. Historical files currently populated at a minimum quarterly
CRSP Index - Secure Website Access	Day T Constituents Day T+1 Changes Corporate Actions Pro Formas Ticker Search Analyst Alert	https://www.crspmi.org **contact indexes@crsp.org for credentials**	Expected release times throughout the day (9:30 AM, 10:30 AM, 12:30 PM, 1:30 PM, 2:30 PM, 5:00 PM, 5:30 PM, 6:10 PM, 6:30 PM). All times are ET	N/A

INDEX LEVELS

Daily: crsp_index_levels_YYYYMMDD.txt

History: /history_index_levels/YYYY/YYYY_q#_crsp_index_levels.zip, where YYYY is year and # is the quarter of the year

Field Name	Field Type	Description
Date_of_Index	varchar(10)	Calendar trading date, day T
Index_Name	varchar(150)	Full name of index
Index_Code	varchar(11)	Index identifying ticker
Currency_Code	varchar(3)	Currency used to value index
Index_Value	decimal(22,10)	Index level at close on day T
Close_Market_Cap	decimal(20,2)	Market cap at close on day T
Close_Divisor	decimal(20,2)	Divisor at close on day T
Close_Count	int	Count of securities at close on day T
Daily_Return	decimal(20,12)	Index return for day T
Index_Dividend	decimal(20,10)	Dividend Points for index on day T. Dividend Points is equal to the Index Dividends Cap divided by the Divisor. Field Type is decimal(20,2) in files created before April 1, 2024.
Adj_Market_Cap	decimal(20,2)	Opening Market Cap next trading day
Adj_Divisor	decimal(20,2)	Opening Divisor next trading day
Adj_Count	int	Opening security count next trading day
Start_Market_Cap	decimal(20,2)	Market cap of the index at the start of day - this field appears in files beginning April 1, 2024.
Adj_Start_Index_Value	decimal(22,10)	Index Value at the start of day - this field appears in files beginning April 1, 2024.

CONSTITUENTS OPEN

Daily: crsp_index_constituents_open_V2_YYYYMMDD.txt

History: /history_icl/YYYY/YYYY_q#_crsp_index_constituents_open_V2.zip, where YYYY is the year and # is the quarter of the year

Daily: crsp_index_constituents_open_PF_V2_YYYYMMDD.txt

History: /history_icl/YYYY/YYYY_crsp_index_constituents_open_PF_V2.zip, where YYYY is the year

Field Name	Field Type	Description (default value)
Effective_Date	varchar(10)	Next calendar trading date after today, day T+1
Index_Name	varchar(150)	Full name of index
Index_Code	varchar(11)	Index identifying ticker
Company	varchar(136)	Company name
PERMNO	int	CRSP permanent issue identifier
SECNO	int	CRSP Market Indexes permanent identifier, discontinued on January 13, 2020
FIGI	varchar(12)	Bloomberg Global ID
CUSIP	char(9)	CUSIP identifier of security
MIC	char(4)	Market Identifier Code
Ticker	varchar(12)	Security ticker symbol
Country	char(2)	Country of incorporation (US)
Local_Price	decimal(14,6)	Start of day price used for the security in index calculations on the effective date, including any adjustment from the previous day closing price
Currency_Code	char(3)	Currency used to trade security (USD)
FX_RATE	int	Foreign exchange rate (1)
Shares_Outstanding	bigint	Number of shares outstanding (BLANK)
Market_Cap	decimal(22,2)	The capitalization of the security at the start of day on the effective date
IWF	decimal(9,3)	Investment Weight Factor. In float-adjusted market cap weighted indexes, this is the Effective Float Factor of the security, the ratio of TSO applied to the index for weighting, expressed as a percentage
Band_Mplier	decimal(10,6)	Size Multiplier. Shows the allocation of this security within this Market Cap index or an index derived from this Market Cap Index, relative to its allocation in the Total Market Index. It is set to 1 if fully allocated
Conc_Mplier	decimal(28,20)	Concentration Multiplier. Shows the ratio between the holdings of this security within this index and what the holdings would be if the index was unconstrained by IRS RIC 25/50 concentration rules. It is set to 1 if the index is not constrained or the security is not constrained within the index. The format is decimal (10,6) in files before October 24, 2024
Style_Mplier	decimal(10,6)	Style Multiplier. Shows the allocation of this security within this Style index or an index derived from this Style Index, relative to its allocation in its underlying Market Cap index. It is set to 1 if fully allocated to this Style or if Style is not a component of this index.
RS_Mplier	decimal(28,20)	Received Stock Multiplier. Shows the ratio between the holdings and what they would be if the security was trued up using the Effective TSO and multipliers. It is set to 1 unless there is a corporate action or index action that operates on index holdings without a true up or reevaluation, such as stock received in a security payout or movement due to transitional reconstitution. The format is decimal (10,6) in files before October 24, 2024
Effective_Tso	bigint	A point in time TSO - used in the calculation of Index Shares
Index_Shares	decimal(26,2)	The holdings in the index. Index Shares can be calculated in float-adjusted market cap weighted indexes as Effective TSO * IWF / 100 * Band_Mplier * Style_Mplier * Conc_Mplier * RS_Mplier.
Index_Market_Cap	decimal(20,2)	The market cap of index shares for the security within the index at the start of day on the effective date
Index_Weight	decimal(16,12)	The weight of the security within the index at the start of day on the effective date
Dividend	decimal(14,6)	Dividend amount paid on this trading day

CONSTITUENTS CLOSE

Daily: crsp_index_constituents_close_V2_YYYYMMDD.txt
History: /history_icl/YYYY/YYYY_q#_crsp_index_constituents_close_V2.zip, where YYYY is the year and # is the quarter of the year

Daily: crsp_index_constituents_close_PF_V2_YYYYMMDD.txt
History: /history_icl/YYYY/YYYY_crsp_index_constituents_close_PF_V2.zip, where YYYY is the year

Field Name	Field Type	Description (default values)
Effective_Date	varchar(10)	Calendar trading date, day T
Index_Name	varchar(150)	Full name of index
Index_Code	varchar(11)	Index identifying ticker
Company	varchar(136)	Company name
PERMNO	int	CRSP permanent issue identifier
SECNO	int	CRSP Market Indexes permanent identifier, discontinued on January 13, 2020
FIGI	varchar(12)	Bloomberg Global ID
CUSIP	char(9)	CUSIP identifier of security
MIC	char(4)	Market Identifier Code
Ticker	varchar(12)	Security ticker symbol
Country	char(2)	Country of incorporation (US)
Local_Price	decimal(14,6)	End of day value used for the security in index calculations on the effective date, equal to the sum of the end of day price and the value of any end of day payments
Currency_Code	char(3)	Currency used to trade security (USD)
FX_RATE	int	Foreign exchange rate (1)
Shares_Outstanding	bigint	Number of shares outstanding (BLANK)
Market_Cap	decimal(22,2)	The capitalization of the security at the end of day on the effective date
IWF	decimal(9,3)	Investment Weight Factor. In float-adjusted market cap weighted indexes, this is the Effective Float Factor of the security, the ratio of TSO applied to the index for weighting, expressed as a percentage
Band_Mplier	decimal(10,6)	Size Multiplier. Shows the allocation of this security within this Market Cap index or an index derived from this Market Cap Index, relative to its allocation in the Total Market Index. It is set to 1 if fully allocated
Conc_Mplier	decimal(28,20)	Concentration Multiplier. Shows the ratio between the holdings of this security within this index and what the holdings would be if the index was unconstrained by IRS RIC 25/50 concentration rules. It is set to 1 if the index is not constrained or the security is not constrained within the index. The format is decimal (10,6) in files before October 24, 2024
Style_Mplier	decimal(10,6)	Style Multiplier. Shows the allocation of this security within this Style index or an index derived from this Style Index, relative to its allocation in its underlying Market Cap index. It is set to 1 if fully allocated to this Style or if Style is not a component of this index
RS_Mplier	decimal(28,20)	Received Stock Multiplier. Shows the ratio between the holdings and what they would be if the security was trued up using the Effective TSO and multipliers. It is set to 1 unless there is a corporate action or index action that operates on index holdings without a true up or reevaluation, such as stock received in a security payout or movement due to transitional reconstitution. The format is decimal (10,6) in files before October 24, 2024
Effective_Tso	bigint	Point in time TSO - used in the calculation of Index Shares

Field Name	Field Type	Description (default values)
Index_Shares	decimal(26,2)	The holdings in the index. Index Shares can be calculated in float-adjusted market cap weighted indexes as Effective TSO * IWF / 100 * Band_Mplier * Style_Mplier * Conc_Mplier * RS_Mplier
Index_Market_Cap	decimal(20,2)	The market cap of index shares for the security within the index at the end of day on the effective date
Index_Weight	decimal(16,12)	The weight of the security within the index at the end of day on the effective date
Daily_Price_Return	decimal(20,12)	Return on security excluding dividends
Daily_Total_Return	decimal(20,12)	Return on security including dividends
Dividend	decimal(14,6)	Dividend amount paid on this trading day
Adj_Start_Local_Price	decimal(14,6)	Start of day price used for the security in index calculations - this field appears in files beginning April 1, 2024
Adj_Start_Index_Weight	decimal(16,12)	Start of day weight of the security within the index - this field appears in files beginning April 1, 2024
Adj_Start_Market_Cap	decimal(20,2)	Start of day capitalization of the security - this field appears in files beginning April 1, 2024
Adj_Start_Index_Market_Cap	decimal(20,2	Start of day market cap of index shares for the security within the index - this field appears in files beginning April 1, 2024

CONSTITUENTS OPEN PROJECTION

Daily: crsp_index_constituents_open_Proj_V2_YYYYMMDD.txt

History: /history_icl/YYYY/YYYY_q#_crsp_index_constituents_open_Proj_V2.zip, where YYYY is the year and # is the quarter of the year

Field Name	Field Type	Description (default values)
Effective_Date	varchar(10)	Calendar trading date of an upcoming transitional reconstitution day
Index_Name	varchar(150)	Full name of index
Index_Code	varchar(11)	Index identifying ticker
Company	varchar(136)	Company name
PERMNO	int	CRSP permanent issue identifier
SECNO	int	CRSP Market Indexes permanent identifier, discontinued on January 13, 2020
FIGI	varchar(12)	Bloomberg Global ID
CUSIP	char(9)	CUSIP identifier of security
MIC	char(4)	Market Identifier Code
Ticker	varchar(12)	Security ticker symbol
Country	char(2)	Country of incorporation (US)
Local_Price	decimal(14,6)	
Currency_Code	char(3)	Currency used to trade security (USD)
FX_RATE	int	Foreign exchange rate (1)
Shares_Outstanding	bigint	
Market_Cap	decimal(22,2)	
IWF	decimal(9,3)	Investment Weight Factor. In float-adjusted market cap weighted indexes, this is the Effective Float Factor of the security, the ratio of TSO applied to the index for weighting, expressed as a percentage
Band_Mplier	decimal(10,6)	Size Multiplier. Shows the allocation of this security within this Market Cap index or an index derived from this Market Cap Index, relative to its allocation in the Total Market Index. It is set to 1 if fully allocated

Field Name	Field Type	Description (default values)
Conc_Mplier	decimal(28,20)	Concentration Multiplier. Shows the ratio between the holdings of this security within this index and what the holdings would be if the index was unconstrained by IRS RIC 25/50 concentration rules. It is set to 1 if the index is not constrained or the security is not constrained within the index. The format is decimal (10,6) in files before October 24, 2024
Style_Mplier	decimal(10,6)	Style Multiplier. Shows the allocation of this security within this Style index or an index derived from this Style Index, relative to its allocation in its underlying Market Cap index. It is set to 1 if fully allocated to this Style or if Style is not a component of this index
RS_Mplier	decimal(28,20)	Received Stock Multiplier. Shows the ratio between the holdings and what they would be if the security was trued up using the Effective TSO and multipliers. It is set to 1 unless there is a corporate action or index action that operates on index holdings without a true up or reevaluation, such as stock received in a security payout or movement due to transitional reconstitution. The format is decimal (10,6) in files before October 24, 2024
Effective_TSO	bigint	A point in time TSO - used in the calculation of Index Shares
Index_Shares	decimal(26,2)	The holdings in the index. Index Shares can be calculated in float-adjusted market cap weighted indexes as Effective TSO * IWF / 100 * Band_Mplier * Style_Mplier * Conc_Mplier * RS_Mplier
Index_Market_Cap	decimal(20,2)	
Index_Weight	decimal(16,12)	
Dividend	decimal(14,6)	

INDEX LEVEL AND CONSTITUENT HISTORY

A quarterly set of zipped daily history files are made available at the end of each calendar quarter. One history folder contains all the Index Levels files and one history folder contains all the Constituents Open, Constituents Close, and Constituents Open Projection files. See above tables for folders, zip file names, and contents of files of each type.

This collection of files includes the latest files created for each day. If a restatement is reported for a day, then the latest restated file will be included in the history for that day. A restated file may include additional minor changes otherwise not targeted for the restatement.

INDEX CHANGES

crsp_indexchanges_YYYYMMDD_releasetime.txt **OR** crsp_indexchanges5_YYYYMMDD_releasetime.txt

Field Name	Field Type	Description
D	char(1)	Indicates Record Type - Always = D for Data
Effective on Open Date	yyyymmdd	Effective on open date. The calendar trading date when these changes will impact index results. Usually report date + 1 but can be report date for late information
Effective After Close Date	yyyymmdd	The calendar trading date for which after the close this change takes effect. For T+1 builds this is usually the report date. Can be previous day for late information
IndNo	int	Index identifier assigned by CRSP. Report to include pro forma indexes when active
Index Symbol	char(11)	Index symbol. Matches the real time total return index ticker for published indexes
TR Index Symbol	char(14)	Index symbol assigned by CRSP for the Total Returns series
Index Name	varchar(79)	Index name
PERMNO	int	Permanent security identifier used in research products assigned by CRSP
Ticker	varchar(14)	Last known trading symbol assigned by primary listing exchange, or last known ticker for a delisted security, on Effective On Open Date (EOOD)
CUSIP	char(9)	Last known CUSIP or CIN assigned to security on EOOD

Field Name	Field Type	Description
FIGI	char(12)	Last known Bloomberg Global ID for security on EOOD. (Composite FIGI)
Company Name	varchar(132)	Last known company name on EOOD
Exchange MIC	char(4)	Specific Mic code; One field @ listing exchange level (versus operating exchange); List the current MIC (changes go into Comments field)
Base Holdings	decimal(20,2)	Holdings on the trading day preceding the Effective on Open date
New Holdings	decimal(20,2)	New holdings on EOOD
Holdings Change	decimal(20,2)	Change from previous holdings to new holdings
Base Effective Float Factor	decimal(18,6)	Effective Float on the trading day preceding the Effective on Open date
New Effective Float Factor	decimal(18,6)	New Effective Float on EOOD
Base Effective TSO	bigint	Effective TSO on the trading day preceding the Effective on Open date
New Effective TSO	bigint	Effective TSO on EOOD
New Size Multiplier	decimal(20,12)	Size multiplier on EOOD
New Style Multiplier	decimal(20,12)	Style multiplier on EOOD
New Concentration Multiplier	decimal(28,20)	Concentration multiplier on EOOD. The format is decimal (20,12) in files before October 24, 2024
New Received Stock Multiplier	decimal(28,20)	Received Stock multiplier on EOOD. The format is decimal (20,12) in files before October 24, 2024
Event Label	varchar(30)	Corporate action type, bulletin event, or shares observation impacting the security (CA Type – e.g. Merger Mandatory, IPO, Bulletin). If more than one corporate action is applicable, then one is chosen. Any description change without a recognized corporate action event will be labeled as "Bulletin Change." Index changes without a recognized corporate action event will be labeled as "Index Event"
Event Status	char(3)	Status of the event, Approved = AP, Conditionally Approved = CA, Canceled = CN
Modified Date	yyyymmdd:hhmm	The release date and time, in Eastern Time, tied to holding changes. If there is a holdings change in at least one index on the day reported, then the modified timestamp is no ealier than the first release on that report date with that holdings change. If there are no holdings changes, then the modified timestamp is the processed version of the corporate action. If there is no explicit event and the timestamp is autodriven from security description data, then the modified timestamp is the earliest release when the latest values of interest are present
Change Description	varchar(8000)	Description of the event or index action – includes external notes of actions prepared by CRSP, with changes to selected security data presented as text, appended to any external note. If there are multiple events that have applicable descriptions, they will be concatenated together

Note: Changes for all days including the current day through the fifth trading day are included in the crsp_indexchange5 file. The data follows all rules described for the day T and T+1 changes, with the following exceptions:

- The event status is never set to Approved until the effective date of a change is T+1 or sooner.
- Conditionally Approved (CA) status is reported if the change is T+2 or later.

OSV INDEX LEVELS

Daily: crsp_index_levels_osv_YYYYMMDD.txt

Field Name	Field Type	Description
Date_of_Index	varchar(10)	Calendar trading date, day T
Index_Name	varchar(150)	Official name of OSV index
Index_Code	varchar(11)	Ticker of OSV index
Currency_Code	varchar(3)	USD in all current OSV indexes
Index_Value	decimal(22,10)	OSV Index Value on day T
Close_Market_Cap	decimal(20,2)	Market Cap of OSV Indexes on day T, based on opening prices used
Close_Divisor	decimal(20,2)	Divisor on day T
Close_Count	int	Count of securities on day T
Daily_Return	decimal(20,12)	
Index_Dividend	decimal(20,10)	Dividend Points for index on day T
Adj_Market_Cap	decimal(20,2)	Start of Day Market Value for underlying index on T+1
Adj_Divisor	decimal(20,2)	Opening Divisor on T+1. This field is not included in files dated before August 20, 2024.
Adj_Count	int	Opening security count on T+1
Start_Market_Cap	decimal(20,2)	Start of day Market Value for underlying index on T
Adj_Start_Index_Value	decimal(22,10)	OSV Index Value on T-1, from previous day's OSV file

RESOURCES

Breakpoints	https://www.crsp.org/indexes/breakpoints-chart
Methodology	https://www.crsp.org/indexes/crsp-market-indexes-methodology
Factsheets (Quarterly Reports)	https://www.crsp.org/archives
Index Rebalancing Calendar	https://www.crsp.org/events

CRSP CONTACT INFORMATION

For further information, please visit our website at www.crsp.org or email indexes@crsp.org.