ANNUAL MARKET IMPACT / TRADING PATTERN REPORT

PM-SETTLED S&P 500 INDEX OPTIONS

On February 8, 2013, the Chicago Board Options Exchange, Incorporated ("CBOE" or "Exchange") received approval of a rule change that established a Pilot Program that allows the Exchange to list options on the S&P 500 Index whose exercise settlement value is derived from closing prices on the last trading day prior to expiration ("SPXPM"). On July 31, 2013, the Exchange received approval of a rule change that amended the Pilot Program to allow the Exchange to list options on the Mini-SPX Index ("XSP") whose exercise settlement value is derived from closing prices on the last trading day prior to expiration ("P.M.-settled") (together, SPXPM and P.M.-settled XSP to be referred to herein as the "Pilot Products"). The Exchange has extended the pilot every six months since then.

As part of the pilot programs, on a periodic basis, CBOE submits reports analyzing volume and open interest for the pilot products. Pursuant to the terms of the pilot program, CBOE is submitting this interim report to the SEC.

Monthly Analysis of Volume & Open Interest:

This interim pilot report data reflects trading activity in SPXpm options during August 1, 2021 through July 31, 2022.

1. Monthly volume aggregated for all SPXpm trades

<u>Month</u>	Index	<u>Volume</u>
2021-8	SPXW	4,474,466
2021-9	SPXW	5,342,806
2021-10	SPXW	4,715,624
2021-11	SPXW	5,525,912
2021-12	SPXW	5,683,106
22-Jan	SPXW	5,761,738
22-Feb	SPXW	5,485,726
22-Mar	SPXW	5,454,658
22-Apr	SPXW	4,901,684
22-May	SPXW	6,327,626
22-Jun	SPXW	6,875,206
22-Jul	SPXW	5,382,506

2. Monthly volume for SPXpm trades aggregated by expiration date

Attached Spreadsheet Tab "SPXpm Aggreg by Expiration Date"

3. Monthly volume for individual SPXpm series

See Attached Spreadsheet Tab "SPXpm Monthly Volume by Series"

4. Month-end open interest aggregated for all SPXpm series

<u>Month</u>	<u>Index</u>	<u>OI</u>
2021-8	SPXW	2,004,272
2021-9	SPXW	2,087,756
2021-10	SPXW	2,108,536
2021-11	SPXW	2,283,476
2021-12	SPXW	1,829,412
Jan-23	SPXW	549,634
Feb-23	SPXW	540,862
Mar-23	SPXW	523,949
Apr-23	SPXW	566,975
May-23	SPXW	639,622
Jun-23	SPXW	611,680
Jul-23	SPXW	603,376

5. Month-end open interest for SPXpm series aggregated by expiration date

See Attached Spreadsheet Tab "SPXpm Aggreg by Expiration Date"

6. Month-end open interest for individual SPXpm series

See Attached Spreadsheet Tab "SPXpm Month-end OI by Series"

Monthly Analysis of Volume & Open Interest:

This interim pilot report data reflects trading activity in SPX AM options during August 1, 2021 through July 31, 2022.

7. Monthly volume aggregated for all SPX AM trades

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-21 Total	SPX	7,082,055
Sep-21 Total	SPX	8,962,016
Oct-21 Total	SPX	8,139,565
Nov-21 Total	SPX	8,312,961
Dec-21 Total	SPX	9,184,866
Jan-22 Total	SPX	10,730,201
Feb-22 Total	SPX	9,220,354
Mar-22 Total	SPX	11,264,785
Apr-22 Total	SPX	8,554,233
May-22 Total	SPX	12,161,080
Jun-22 Total	SPX	11,541,663
Jul-22 Total	SPX	8,433,672

8. Monthly volume for SPX AM trades aggregated by expiration date

See Attached Spreadsheet Tab "SPX Aggreg by Expiration Date"

9. Monthly volume for individual SPX AM series

See Attached Spreadsheet Tab "SPX AM Monthly Volume by Series"

10. Month-end open interest aggregated for all SPX AM series

N.A All-	1	0
<u>Month</u>	<u>Index</u>	Open Interest
21-Aug	SPX	10,388,166
21-Sep	SPX	9,685,391
21-Oct	SPX	10,457,855
21-Nov	SPX	11,317,598
21-Dec	SPX	8,767,132
22-Jan	SPX	9,224,336
22-Feb	SPX	9,926,624
22-Mar	SPX	8,968,991
22-Apr	SPX	9,916,159
22-May	SPX	11,299,943
22-Jun	SPX	9,876,460
22-Jul	SPX	10,140,188

11. Month-end open interest for SPX AM series aggregated by expiration date

See Attached Spreadsheet Tab "SPX Aggreg by Expiration Date"

12. Month-end open interest for individual SPX AM series

See Attached Spreadsheet Tab "Month-end OI by Series"

Monthly Analysis of Volume & Open Interest:

This interim pilot report data reflects trading activity in XSP PM options during August 1, 2021 through July 31, 2022.

13. Monthly volume aggregated for all XSP PM trades

<u>Month</u>	Index	<u>Volume</u>
Aug-21	XSP	253,992
Sep-21	XSP	227,384
Oct-21	XSP	232,504
Nov-21	XSP	277,318
Dec-21	XSP	256,590
Jan-22	XSP	101,603
Feb-22	XSP	117,628
Mar-22	XSP	122,597
Apr-22	XSP	96,038
May-22	XSP	215,639
Jun-22	XSP	230,259
Jul-22	XSP	198,617

14. Monthly volume for XSP PM trades aggregated by expiration date

See Attached Spreadsheet Tab "XSP PM Aggreg by Expiration Date"

15. Monthly volume for individual XSP PM series

See Attached Spreadsheet Tab "XSP Monthly Volume by Series"

16. Month-end open interest aggregated for all XSP PM series

<u>Month</u>	<u>Index</u>	<u>OI</u>
Aug-21	XSP	571,036
Sep-21	XSP	551,792
Oct-21	XSP	570,004
Nov-21	XSP	659,840
Dec-21	XSP	596,992
Jan-22	XSP	139,651
Feb-22	XSP	146,591
Mar-22	XSP	137,614
Apr-22	XSP	130,830
May-22	XSP	168,024
Jun-22	XSP	239,624
Jul-22	XSP	246,611

17. Month-end open interest for XSP PM series aggregated by expiration date

See Attached Spreadsheet Tab "XSP PM Aggreg by Expiration Date"

18. Month-end open interest for individual XSP PM series

See Attached Spreadsheet Tab "Month-end OI by Series"

Monthly Analysis of Volume & Open Interest:

This interim pilot report data reflects trading activity in MRUT options during August, 2021 through July 31, 2022

1. Monthly volume aggregated for all MRUT trades

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-21	MRUT	4,290
Sep-21	MRUT	3,064
Oct-21	MRUT	2,626
Nov-21	MRUT	2,616
Dec-21	MRUT	4,006
Jan-22	MRUT	1,031
Feb-22	MRUT	773
Mar-22	MRUT	1,122
Apr-22	MRUT	1,780
May-22	MRUT	1,847
Jun-22	MRUT	1,502
Jul-22	MRUT	1,952

2. Monthly volume for MRUT trades aggregated by expiration date

See Attached Spreadsheet Tab "MRUT Aggreg by Expiration Date"

3. Monthly volume for individual MRUT series

See Attached Spreadsheet Tab "MRUT Monthly Volume by Series"

4. Month-end open interest aggregated for all MRUT series

<u>Month</u>	<u>Index</u>	<u>OI</u>
Aug-21	MRUT	5,500
Sep-21	MRUT	5,020
Oct-21	MRUT	4,796
Nov-21	MRUT	4,556
Dec-21	MRUT	4,916
Jan-22	MRUT	1,031
Feb-22	MRUT	773
Mar-22	MRUT	1,122
Apr-22	MRUT	1,270
May-22	MRUT	1,335
Jun-22	MRUT	1,353
Jul-22	MRUT	1,032

5. Month-end open interest for MRUT series aggregated by expiration date

See Attached Spreadsheet Tab "MRUT Aggreg by Expiration Date"

6. Month-end open interest for individual MRUT series

See Attached Spreadsheet Tab "Month-end OI by Series"