

## ANNUAL MARKET IMPACT / TRADING PATTERN REPORT

### PM-SETTLED S&P 500 INDEX OPTIONS

SEPTEMBER 3, 2015

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"). In October 2014, the Exchange filed a proposed rule change that extended the pilot period from November 3, 2014 to May 3, 2016.

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, 2014 through July 31, 2015 because the previous interim pilot report contained data reflecting trading activity from December 1, 2013 through July 31, 2014.

#### ***1. Monthly volume aggregated for all SPXpm trades***

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-14	SPXpm	137,954
Sep-14	SPXpm	151,994
Oct-14	SPXpm	243,372
Nov-14	SPXpm	117,682
Dec-14	SPXpm	148,159
Jan-15	SPXpm	110,881
Feb-15	SPXpm	113,057
Mar-15	SPXpm	148,291
Apr-15	SPXpm	114,350
May-15	SPXpm	100,943
Jun-15	SPXpm	158,486
Jul-15	SPXpm	172,677

**2. Monthly volume for SPXpm trades aggregated by expiration date**

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Aug-14	SPXpm	August 16, 2014	88,813
Aug-14	SPXpm	September 20, 2014	36,586
Aug-14	SPXpm	October 18, 2014	7,200
Aug-14	SPXpm	November 22, 2014	1,483
Aug-14	SPXpm	December 20, 2014	779
Aug-14	SPXpm	January 17, 2015	326
Aug-14	SPXpm	March 20, 2015	103
Aug-14	SPXpm	June 19, 2015	15
Aug-14	SPXpm	December 19, 2015	588
Aug-14	SPXpm	January 15, 2016	49
Aug-14	SPXpm	June 17, 2016	245
Aug-14	SPXpm	December 17, 2016	1,767
Sep-14	SPXpm	September 20, 2014	106,951
Sep-14	SPXpm	October 18, 2014	26,819
Sep-14	SPXpm	November 22, 2014	6,306
Sep-14	SPXpm	December 20, 2014	8,094
Sep-14	SPXpm	January 17, 2015	1,255
Sep-14	SPXpm	March 20, 2015	126
Sep-14	SPXpm	June 19, 2015	96
Sep-14	SPXpm	September 18, 2015	74
Sep-14	SPXpm	December 19, 2015	427
Sep-14	SPXpm	January 15, 2016	201
Sep-14	SPXpm	June 17, 2016	44
Sep-14	SPXpm	December 17, 2016	1,601
Oct-14	SPXpm	October 18, 2014	156,168
Oct-14	SPXpm	November 22, 2014	51,301
Oct-14	SPXpm	December 20, 2014	20,322
Oct-14	SPXpm	January 17, 2015	5,883
Oct-14	SPXpm	February 20, 2015	188
Oct-14	SPXpm	March 20, 2015	1,102
Oct-14	SPXpm	June 19, 2015	631
Oct-14	SPXpm	September 18, 2015	44
Oct-14	SPXpm	December 19, 2015	790
Oct-14	SPXpm	January 15, 2016	279
Oct-14	SPXpm	December 17, 2016	6,664
Nov-14	SPXpm	November 22, 2014	87,715
Nov-14	SPXpm	December 20, 2014	19,131
Nov-14	SPXpm	January 17, 2015	7,746
Nov-14	SPXpm	February 20, 2015	1,383
Nov-14	SPXpm	March 20, 2015	99
Nov-14	SPXpm	June 19, 2015	519
Nov-14	SPXpm	September 18, 2015	176
Nov-14	SPXpm	December 19, 2015	90
Nov-14	SPXpm	January 15, 2016	4
Nov-14	SPXpm	December 17, 2016	819

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Dec-14	SPXpm	December 20, 2014	112,859
Dec-14	SPXpm	January 17, 2015	25,506
Dec-14	SPXpm	February 20, 2015	6,714
Dec-14	SPXpm	March 20, 2015	1,598
Dec-14	SPXpm	April 17, 2015	68
Dec-14	SPXpm	June 19, 2015	628
Dec-14	SPXpm	September 18, 2015	9
Dec-14	SPXpm	December 19, 2015	87
Dec-14	SPXpm	June 17, 2016	102
Dec-14	SPXpm	December 17, 2016	225
Dec-14	SPXpm	December 15, 2017	363
Jan-15	SPXpm	January 17, 2015	73,969
Jan-15	SPXpm	February 20, 2015	22,052
Jan-15	SPXpm	March 20, 2015	9,694
Jan-15	SPXpm	April 17, 2015	1,640
Jan-15	SPXpm	May 15, 2015	261
Jan-15	SPXpm	June 19, 2015	1,076
Jan-15	SPXpm	September 18, 2015	208
Jan-15	SPXpm	December 19, 2015	443
Jan-15	SPXpm	January 15, 2016	12
Jan-15	SPXpm	June 17, 2016	129
Jan-15	SPXpm	December 17, 2016	592
Jan-15	SPXpm	December 15, 2017	805
Feb-15	SPXpm	February 20, 2015	82,437
Feb-15	SPXpm	March 20, 2015	22,101
Feb-15	SPXpm	April 17, 2015	4,300
Feb-15	SPXpm	May 15, 2015	1,160
Feb-15	SPXpm	June 19, 2015	1,137
Feb-15	SPXpm	September 18, 2015	446
Feb-15	SPXpm	December 19, 2015	708
Feb-15	SPXpm	January 15, 2016	50
Feb-15	SPXpm	December 17, 2016	248
Feb-15	SPXpm	December 15, 2017	470
Mar-15	SPXpm	March 20, 2015	108,695
Mar-15	SPXpm	April 17, 2015	24,741
Mar-15	SPXpm	May 15, 2015	8,244
Mar-15	SPXpm	June 19, 2015	3,104
Mar-15	SPXpm	July 17, 2015	443
Mar-15	SPXpm	September 18, 2015	1,643
Mar-15	SPXpm	December 19, 2015	903
Mar-15	SPXpm	January 15, 2016	183
Mar-15	SPXpm	March 18, 2016	3
Mar-15	SPXpm	June 17, 2016	25
Mar-15	SPXpm	December 17, 2016	202
Mar-15	SPXpm	December 15, 2017	105

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Apr-15	SPXpm	April 17, 2015	71,205
Apr-15	SPXpm	May 15, 2015	27,910
Apr-15	SPXpm	June 19, 2015	11,828
Apr-15	SPXpm	July 17, 2015	2,223
Apr-15	SPXpm	August 21, 2015	86
Apr-15	SPXpm	September 18, 2015	187
Apr-15	SPXpm	December 19, 2015	116
Apr-15	SPXpm	January 15, 2016	157
Apr-15	SPXpm	March 18, 2016	45
Apr-15	SPXpm	June 17, 2016	107
Apr-15	SPXpm	December 17, 2016	480
Apr-15	SPXpm	December 15, 2017	6
May-15	SPXpm	May 15, 2015	68,430
May-15	SPXpm	June 19, 2015	24,961
May-15	SPXpm	July 17, 2015	5,587
May-15	SPXpm	August 21, 2015	846
May-15	SPXpm	September 18, 2015	221
May-15	SPXpm	December 19, 2015	132
May-15	SPXpm	January 15, 2016	449
May-15	SPXpm	March 18, 2016	52
May-15	SPXpm	June 17, 2016	116
May-15	SPXpm	December 17, 2016	124
May-15	SPXpm	December 15, 2017	25
Jun-15	SPXpm	June 19, 2015	102,082
Jun-15	SPXpm	July 17, 2015	35,886
Jun-15	SPXpm	August 21, 2015	13,450
Jun-15	SPXpm	September 18, 2015	2,421
Jun-15	SPXpm	October 16, 2015	177
Jun-15	SPXpm	December 19, 2015	3,179
Jun-15	SPXpm	January 15, 2016	1,163
Jun-15	SPXpm	March 18, 2016	55
Jun-15	SPXpm	June 17, 2016	17
Jun-15	SPXpm	December 17, 2016	25
Jun-15	SPXpm	June 16, 2017	10
Jun-15	SPXpm	December 15, 2017	21
Jul-15	SPXpm	July 17, 2015	100,196
Jul-15	SPXpm	August 21, 2015	35,009
Jul-15	SPXpm	September 18, 2015	31,089
Jul-15	SPXpm	October 16, 2015	1,337
Jul-15	SPXpm	November 20, 2015	164
Jul-15	SPXpm	December 19, 2015	1,865
Jul-15	SPXpm	January 15, 2016	613
Jul-15	SPXpm	March 18, 2016	1,223
Jul-15	SPXpm	June 17, 2016	269
Jul-15	SPXpm	December 17, 2016	811
Jul-15	SPXpm	June 16, 2017	34
Jul-15	SPXpm	December 15, 2017	67

### **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>
Aug-14	SPXpm	105,244
Sep-14	SPXpm	106,314
Oct-14	SPXpm	123,762
Nov-14	SPXpm	110,623
Dec-14	SPXpm	98,152
Jan-15	SPXpm	99,355
Feb-15	SPXpm	100,249
Mar-15	SPXpm	106,321
Apr-15	SPXpm	107,770
May-15	SPXpm	104,575
Jun-15	SPXpm	116,619
Jul-15	SPXpm	134,138

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

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Aug-14	SPXpm	September 20, 2014	27,097
Aug-14	SPXpm	October 18, 2014	6,282
Aug-14	SPXpm	November 22, 2014	1,533
Aug-14	SPXpm	December 20, 2014	5,015
Aug-14	SPXpm	January 17, 2015	1,773
Aug-14	SPXpm	March 20, 2015	397
Aug-14	SPXpm	June 19, 2015	1,098
Aug-14	SPXpm	December 19, 2015	6,952
Aug-14	SPXpm	January 15, 2016	329
Aug-14	SPXpm	June 17, 2016	295
Aug-14	SPXpm	December 17, 2016	54,473
Sep-14	SPXpm	October 18, 2014	20,651
Sep-14	SPXpm	November 22, 2014	5,424
Sep-14	SPXpm	December 20, 2014	12,004
Sep-14	SPXpm	January 17, 2015	2,830
Sep-14	SPXpm	March 20, 2015	480
Sep-14	SPXpm	June 19, 2015	1,178
Sep-14	SPXpm	September 18, 2015	73
Sep-14	SPXpm	December 19, 2015	7,279
Sep-14	SPXpm	January 15, 2016	530
Sep-14	SPXpm	June 17, 2016	316
Sep-14	SPXpm	December 17, 2016	55,549

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Oct-14	SPXpm	November 22, 2014	25,174
Oct-14	SPXpm	December 20, 2014	21,992
Oct-14	SPXpm	January 17, 2015	7,747
Oct-14	SPXpm	February 20, 2015	188
Oct-14	SPXpm	March 20, 2015	1,577
Oct-14	SPXpm	June 19, 2015	1,099
Oct-14	SPXpm	September 18, 2015	117
Oct-14	SPXpm	December 19, 2015	7,357
Oct-14	SPXpm	January 15, 2016	791
Oct-14	SPXpm	June 17, 2016	316
Oct-14	SPXpm	December 17, 2016	57,404
Nov-14	SPXpm	December 20, 2014	28,522
Nov-14	SPXpm	January 17, 2015	11,887
Nov-14	SPXpm	February 20, 2015	1,556
Nov-14	SPXpm	March 20, 2015	1,661
Nov-14	SPXpm	June 19, 2015	1,201
Nov-14	SPXpm	September 18, 2015	274
Nov-14	SPXpm	December 19, 2015	7,391
Nov-14	SPXpm	January 15, 2016	791
Nov-14	SPXpm	June 17, 2016	316
Nov-14	SPXpm	December 17, 2016	57,024
Dec-14	SPXpm	January 17, 2015	20,370
Dec-14	SPXpm	February 20, 2015	6,392
Dec-14	SPXpm	March 20, 2015	3,102
Dec-14	SPXpm	April 17, 2015	68
Dec-14	SPXpm	June 19, 2015	1,728
Dec-14	SPXpm	September 18, 2015	283
Dec-14	SPXpm	December 19, 2015	7,448
Dec-14	SPXpm	January 15, 2016	791
Dec-14	SPXpm	June 17, 2016	418
Dec-14	SPXpm	December 17, 2016	57,189
Dec-14	SPXpm	December 15, 2017	363
Jan-15	SPXpm	February 20, 2015	16,198
Jan-15	SPXpm	March 20, 2015	10,100
Jan-15	SPXpm	April 17, 2015	1,679
Jan-15	SPXpm	May 15, 2015	261
Jan-15	SPXpm	June 19, 2015	2,708
Jan-15	SPXpm	September 18, 2015	475
Jan-15	SPXpm	December 19, 2015	7,738
Jan-15	SPXpm	January 15, 2016	795
Jan-15	SPXpm	June 17, 2016	547
Jan-15	SPXpm	December 17, 2016	57,693
Jan-15	SPXpm	December 15, 2017	1,161

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Feb-15	SPXpm	March 20, 2015	20,598
Feb-15	SPXpm	April 17, 2015	4,588
Feb-15	SPXpm	May 15, 2015	1,391
Feb-15	SPXpm	June 19, 2015	3,681
Feb-15	SPXpm	September 18, 2015	908
Feb-15	SPXpm	December 19, 2015	8,341
Feb-15	SPXpm	January 15, 2016	845
Feb-15	SPXpm	June 17, 2016	547
Feb-15	SPXpm	December 17, 2016	57,773
Feb-15	SPXpm	December 15, 2017	1,577
Mar-15	SPXpm	April 17, 2015	19,289
Mar-15	SPXpm	May 15, 2015	7,537
Mar-15	SPXpm	June 19, 2015	6,357
Mar-15	SPXpm	July 17, 2015	443
Mar-15	SPXpm	September 18, 2015	2,506
Mar-15	SPXpm	December 19, 2015	9,100
Mar-15	SPXpm	January 15, 2016	995
Mar-15	SPXpm	March 18, 2016	3
Mar-15	SPXpm	June 17, 2016	572
Mar-15	SPXpm	December 17, 2016	57,847
Mar-15	SPXpm	December 15, 2017	1,672
Apr-15	SPXpm	May 15, 2015	17,324
Apr-15	SPXpm	June 19, 2015	14,651
Apr-15	SPXpm	July 17, 2015	2,524
Apr-15	SPXpm	August 21, 2015	82
Apr-15	SPXpm	September 18, 2015	2,591
Apr-15	SPXpm	December 19, 2015	9,197
Apr-15	SPXpm	January 15, 2016	1,152
Apr-15	SPXpm	March 18, 2016	48
Apr-15	SPXpm	June 17, 2016	678
Apr-15	SPXpm	December 17, 2016	57,845
Apr-15	SPXpm	December 15, 2017	1,678
May-15	SPXpm	June 19, 2015	23,296
May-15	SPXpm	July 17, 2015	6,638
May-15	SPXpm	August 21, 2015	891
May-15	SPXpm	September 18, 2015	2,551
May-15	SPXpm	December 19, 2015	9,279
May-15	SPXpm	January 15, 2016	1,449
May-15	SPXpm	March 18, 2016	100
May-15	SPXpm	June 17, 2016	744
May-15	SPXpm	December 17, 2016	57,924
May-15	SPXpm	December 15, 2017	1,703

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Jun-15	SPXpm	July 17, 2015	25,253
Jun-15	SPXpm	August 21, 2015	11,693
Jun-15	SPXpm	September 18, 2015	4,716
Jun-15	SPXpm	October 16, 2015	177
Jun-15	SPXpm	December 19, 2015	11,815
Jun-15	SPXpm	January 15, 2016	2,384
Jun-15	SPXpm	March 18, 2016	155
Jun-15	SPXpm	June 17, 2016	747
Jun-15	SPXpm	December 17, 2016	57,945
Jun-15	SPXpm	June 16, 2017	10
Jun-15	SPXpm	December 15, 2017	1,724
Jul-15	SPXpm	August 21, 2015	28,500
Jul-15	SPXpm	September 18, 2015	26,899
Jul-15	SPXpm	October 16, 2015	1,496
Jul-15	SPXpm	November 20, 2015	164
Jul-15	SPXpm	December 19, 2015	13,070
Jul-15	SPXpm	January 15, 2016	2,527
Jul-15	SPXpm	March 18, 2016	1,275
Jul-15	SPXpm	June 17, 2016	932
Jul-15	SPXpm	December 17, 2016	57,457
Jul-15	SPXpm	June 16, 2017	39
Jul-15	SPXpm	December 15, 2017	1,779

**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, 2014 through July 31, 2015.

***7. Monthly volume aggregated for all SPX AM trades***

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-14	SPX	10,948,792
Sep-14	SPX	9,852,909
Oct-14	SPX	17,265,126
Nov-14	SPX	8,979,812
Dec-14	SPX	11,784,026
Jan-15	SPX	11,067,044
Feb-15	SPX	9,297,064
Mar-15	SPX	9,936,414
Apr-15	SPX	8,619,109
May-15	SPX	7,439,301
Jun-15	SPX	10,087,097
Jul-15	SPX	10,098,729

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

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Aug-14	SPX	August 16, 2014	2,745,715
Aug-14	SPX	September 20, 2014	4,844,303
Aug-14	SPX	October 18, 2014	1,428,838
Aug-14	SPX	November 22, 2014	392,788
Aug-14	SPX	December 20, 2014	748,607
Aug-14	SPX	January 17, 2015	157,197
Aug-14	SPX	March 20, 2015	250,315
Aug-14	SPX	June 19, 2015	187,240
Aug-14	SPX	December 19, 2015	103,838
Aug-14	SPX	January 15, 2016	9,375
Aug-14	SPX	June 17, 2016	15,279
Aug-14	SPX	December 16, 2016	65,297
Sep-14	SPX	September 20, 2014	3,328,039
Sep-14	SPX	October 18, 2014	2,702,860
Sep-14	SPX	November 22, 2014	1,134,879
Sep-14	SPX	December 20, 2014	1,682,953
Sep-14	SPX	January 17, 2015	201,237
Sep-14	SPX	March 20, 2015	346,253
Sep-14	SPX	June 19, 2015	191,852
Sep-14	SPX	September 18, 2015	36,816
Sep-14	SPX	December 19, 2015	150,274
Sep-14	SPX	January 15, 2016	17,987
Sep-14	SPX	June 17, 2016	5,925
Sep-14	SPX	December 16, 2016	53,834

Month	Index	Expiration	Volume
Oct-14	SPX	October 18, 2014	4,746,532
Oct-14	SPX	November 22, 2014	5,308,805
Oct-14	SPX	December 20, 2014	4,875,900
Oct-14	SPX	January 17, 2015	827,023
Oct-14	SPX	February 20, 2015	78,817
Oct-14	SPX	March 20, 2015	639,846
Oct-14	SPX	June 19, 2015	305,931
Oct-14	SPX	September 18, 2015	95,908
Oct-14	SPX	December 19, 2015	224,473
Oct-14	SPX	January 15, 2016	18,271
Oct-14	SPX	June 17, 2016	18,569
Oct-14	SPX	December 16, 2016	125,051
Nov-14	SPX	November 22, 2014	2,454,030
Nov-14	SPX	December 20, 2014	4,008,499
Nov-14	SPX	January 17, 2015	916,065
Nov-14	SPX	February 20, 2015	467,011
Nov-14	SPX	March 20, 2015	572,865
Nov-14	SPX	June 19, 2015	237,440
Nov-14	SPX	September 18, 2015	73,029
Nov-14	SPX	December 19, 2015	134,965
Nov-14	SPX	January 15, 2016	19,569
Nov-14	SPX	June 17, 2016	23,692
Nov-14	SPX	December 16, 2016	72,647
Dec-14	SPX	December 20, 2014	4,500,706
Dec-14	SPX	January 17, 2015	3,258,208
Dec-14	SPX	February 20, 2015	1,213,951
Dec-14	SPX	March 20, 2015	1,950,146
Dec-14	SPX	April 17, 2015	20,430
Dec-14	SPX	June 19, 2015	359,647
Dec-14	SPX	September 18, 2015	112,328
Dec-14	SPX	December 19, 2015	274,491
Dec-14	SPX	January 15, 2016	16,218
Dec-14	SPX	June 17, 2016	17,221
Dec-14	SPX	December 16, 2016	58,780
Dec-14	SPX	December 15, 2017	1,900
Jan-15	SPX	January 17, 2015	2,913,719
Jan-15	SPX	February 20, 2015	3,079,516
Jan-15	SPX	March 20, 2015	3,413,077
Jan-15	SPX	April 17, 2015	473,583
Jan-15	SPX	May 15, 2015	75,087
Jan-15	SPX	June 19, 2015	487,701
Jan-15	SPX	September 18, 2015	194,030
Jan-15	SPX	December 19, 2015	284,939
Jan-15	SPX	January 15, 2016	50,729
Jan-15	SPX	June 17, 2016	20,336
Jan-15	SPX	December 16, 2016	64,127
Jan-15	SPX	December 15, 2017	10,200

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Feb-15	SPX	February 20, 2015	2,538,154
Feb-15	SPX	March 20, 2015	4,106,944
Feb-15	SPX	April 17, 2015	1,016,696
Feb-15	SPX	May 15, 2015	320,901
Feb-15	SPX	June 19, 2015	684,944
Feb-15	SPX	September 18, 2015	169,238
Feb-15	SPX	December 19, 2015	250,087
Feb-15	SPX	January 15, 2016	73,470
Feb-15	SPX	June 17, 2016	45,089
Feb-15	SPX	December 16, 2016	66,866
Feb-15	SPX	December 15, 2017	24,675
Mar-15	SPX	March 20, 2015	3,249,264
Mar-15	SPX	April 17, 2015	2,845,606
Mar-15	SPX	May 15, 2015	1,149,346
Mar-15	SPX	June 19, 2015	1,736,824
Mar-15	SPX	July 17, 2015	31,248
Mar-15	SPX	September 18, 2015	312,506
Mar-15	SPX	December 19, 2015	336,860
Mar-15	SPX	January 15, 2016	56,673
Mar-15	SPX	March 18, 2016	42,108
Mar-15	SPX	June 17, 2016	56,051
Mar-15	SPX	December 16, 2016	104,611
Mar-15	SPX	December 15, 2017	15,317
Apr-15	SPX	April 17, 2015	1,943,923
Apr-15	SPX	May 15, 2015	2,506,058
Apr-15	SPX	June 19, 2015	2,582,043
Apr-15	SPX	July 17, 2015	561,334
Apr-15	SPX	August 21, 2015	53,262
Apr-15	SPX	September 18, 2015	319,975
Apr-15	SPX	December 19, 2015	301,863
Apr-15	SPX	January 15, 2016	134,414
Apr-15	SPX	March 18, 2016	75,257
Apr-15	SPX	June 17, 2016	62,046
Apr-15	SPX	December 16, 2016	58,055
Apr-15	SPX	December 15, 2017	20,879
May-15	SPX	May 15, 2015	2,062,753
May-15	SPX	June 19, 2015	3,204,775
May-15	SPX	July 17, 2015	864,162
May-15	SPX	August 21, 2015	322,558
May-15	SPX	September 18, 2015	355,431
May-15	SPX	December 19, 2015	341,344
May-15	SPX	January 15, 2016	72,492
May-15	SPX	March 18, 2016	60,939
May-15	SPX	June 17, 2016	62,576
May-15	SPX	December 16, 2016	73,390
May-15	SPX	December 15, 2017	18,881

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Jun-15	SPX	June 19, 2015	3,472,409
Jun-15	SPX	July 17, 2015	2,890,483
Jun-15	SPX	August 21, 2015	976,972
Jun-15	SPX	September 18, 2015	1,650,337
Jun-15	SPX	October 16, 2015	27,190
Jun-15	SPX	December 19, 2015	702,391
Jun-15	SPX	January 15, 2016	94,288
Jun-15	SPX	March 18, 2016	64,567
Jun-15	SPX	June 17, 2016	132,314
Jun-15	SPX	December 16, 2016	61,118
Jun-15	SPX	June 16, 2017	1,195
Jun-15	SPX	December 15, 2017	13,833
Jul-15	SPX	July 17, 2015	3,131,646
Jul-15	SPX	August 21, 2015	2,849,740
Jul-15	SPX	September 18, 2015	2,832,735
Jul-15	SPX	October 16, 2015	344,753
Jul-15	SPX	November 20, 2015	37,640
Jul-15	SPX	December 19, 2015	450,825
Jul-15	SPX	January 15, 2016	137,432
Jul-15	SPX	March 18, 2016	94,955
Jul-15	SPX	June 17, 2016	92,126
Jul-15	SPX	December 16, 2016	82,074
Jul-15	SPX	June 16, 2017	7,301
Jul-15	SPX	December 15, 2017	37,502

**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**

<u>Month</u>	<u>Index</u>	<u>OI</u>
Aug-14	SPX	11,037,008
Sep-14	SPX	9,667,113
Oct-14	SPX	11,312,200
Nov-14	SPX	11,288,751
Dec-14	SPX	8,704,665
Jan-15	SPX	8,755,440
Feb-15	SPX	9,420,446
Mar-15	SPX	8,169,792
Apr-15	SPX	8,706,519
May-15	SPX	8,983,904
Jun-15	SPX	8,026,219
Jul-15	SPX	8,479,508

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

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Aug-14	SPX	September 20, 2014	4,311,331
Aug-14	SPX	October 18, 2014	1,206,828
Aug-14	SPX	November 22, 2014	352,198
Aug-14	SPX	December 20, 2014	2,471,026
Aug-14	SPX	January 17, 2015	539,000
Aug-14	SPX	March 20, 2015	447,671
Aug-14	SPX	June 19, 2015	522,376
Aug-14	SPX	December 19, 2015	783,405
Aug-14	SPX	January 15, 2016	10,711
Aug-14	SPX	June 17, 2016	26,785
Aug-14	SPX	December 16, 2016	365,677
Sep-14	SPX	October 18, 2014	2,190,567
Sep-14	SPX	November 22, 2014	1,050,898
Sep-14	SPX	December 20, 2014	3,167,267
Sep-14	SPX	January 17, 2015	648,721
Sep-14	SPX	March 20, 2015	654,182
Sep-14	SPX	June 19, 2015	605,168
Sep-14	SPX	September 18, 2015	40,097
Sep-14	SPX	December 19, 2015	849,555
Sep-14	SPX	January 15, 2016	24,701
Sep-14	SPX	June 17, 2016	31,786
Sep-14	SPX	December 16, 2016	404,171
Oct-14	SPX	November 22, 2014	2,453,266
Oct-14	SPX	December 20, 2014	4,599,504
Oct-14	SPX	January 17, 2015	1,055,706
Oct-14	SPX	February 20, 2015	70,221
Oct-14	SPX	March 20, 2015	908,389
Oct-14	SPX	June 19, 2015	696,066
Oct-14	SPX	September 18, 2015	114,471
Oct-14	SPX	December 19, 2015	895,570
Oct-14	SPX	January 15, 2016	32,415
Oct-14	SPX	June 17, 2016	41,825
Oct-14	SPX	December 16, 2016	444,767
Nov-14	SPX	December 20, 2014	5,804,550
Nov-14	SPX	January 17, 2015	1,412,851
Nov-14	SPX	February 20, 2015	424,206
Nov-14	SPX	March 20, 2015	1,131,727
Nov-14	SPX	June 19, 2015	806,162
Nov-14	SPX	September 18, 2015	167,850
Nov-14	SPX	December 19, 2015	947,935
Nov-14	SPX	January 15, 2016	45,687
Nov-14	SPX	June 17, 2016	61,512
Nov-14	SPX	December 16, 2016	486,271

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Dec-14	SPX	January 17, 2015	2,750,742
Dec-14	SPX	February 20, 2015	887,634
Dec-14	SPX	March 20, 2015	2,082,307
Dec-14	SPX	April 17, 2015	20,377
Dec-14	SPX	June 19, 2015	983,250
Dec-14	SPX	September 18, 2015	231,439
Dec-14	SPX	December 19, 2015	1,093,244
Dec-14	SPX	January 15, 2016	54,252
Dec-14	SPX	June 17, 2016	74,084
Dec-14	SPX	December 16, 2016	519,188
Dec-14	SPX	December 15, 2017	8,148
Jan-15	SPX	February 20, 2015	1,950,625
Jan-15	SPX	March 20, 2015	2,946,891
Jan-15	SPX	April 17, 2015	360,773
Jan-15	SPX	May 15, 2015	69,270
Jan-15	SPX	June 19, 2015	1,133,625
Jan-15	SPX	September 18, 2015	336,494
Jan-15	SPX	December 19, 2015	1,218,193
Jan-15	SPX	January 15, 2016	90,984
Jan-15	SPX	June 17, 2016	84,718
Jan-15	SPX	December 16, 2016	548,233
Jan-15	SPX	December 15, 2017	15,634
Feb-15	SPX	March 20, 2015	4,137,901
Feb-15	SPX	April 17, 2015	967,197
Feb-15	SPX	May 15, 2015	284,960
Feb-15	SPX	June 19, 2015	1,419,716
Feb-15	SPX	September 18, 2015	436,121
Feb-15	SPX	December 19, 2015	1,312,736
Feb-15	SPX	January 15, 2016	134,994
Feb-15	SPX	June 17, 2016	118,985
Feb-15	SPX	December 16, 2016	569,730
Feb-15	SPX	December 15, 2017	38,106
Mar-15	SPX	April 17, 2015	2,068,173
Mar-15	SPX	May 15, 2015	903,165
Mar-15	SPX	June 19, 2015	2,116,853
Mar-15	SPX	July 17, 2015	29,833
Mar-15	SPX	September 18, 2015	599,319
Mar-15	SPX	December 19, 2015	1,421,297
Mar-15	SPX	January 15, 2016	173,245
Mar-15	SPX	March 18, 2016	41,648
Mar-15	SPX	June 17, 2016	155,721
Mar-15	SPX	December 16, 2016	608,190
Mar-15	SPX	December 15, 2017	52,348

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Apr-15	SPX	May 15, 2015	1,780,305
Apr-15	SPX	June 19, 2015	2,882,780
Apr-15	SPX	July 17, 2015	414,250
Apr-15	SPX	August 21, 2015	47,480
Apr-15	SPX	September 18, 2015	775,492
Apr-15	SPX	December 19, 2015	1,532,784
Apr-15	SPX	January 15, 2016	261,753
Apr-15	SPX	March 18, 2016	105,495
Apr-15	SPX	June 17, 2016	199,158
Apr-15	SPX	December 16, 2016	636,787
Apr-15	SPX	December 15, 2017	70,235
May-15	SPX	June 19, 2015	3,817,931
May-15	SPX	July 17, 2015	878,996
May-15	SPX	August 21, 2015	276,319
May-15	SPX	September 18, 2015	910,669
May-15	SPX	December 19, 2015	1,658,692
May-15	SPX	January 15, 2016	309,419
May-15	SPX	March 18, 2016	145,279
May-15	SPX	June 17, 2016	229,403
May-15	SPX	December 16, 2016	672,649
May-15	SPX	December 15, 2017	84,547
Jun-15	SPX	July 17, 2015	1,989,368
Jun-15	SPX	August 21, 2015	819,939
Jun-15	SPX	September 18, 2015	1,673,602
Jun-15	SPX	October 16, 2015	25,082
Jun-15	SPX	December 19, 2015	1,899,457
Jun-15	SPX	January 15, 2016	360,803
Jun-15	SPX	March 18, 2016	180,282
Jun-15	SPX	June 17, 2016	289,687
Jun-15	SPX	December 16, 2016	690,080
Jun-15	SPX	June 16, 2017	1,917
Jun-15	SPX	December 15, 2017	96,002
Jul-15	SPX	August 21, 2015	1,767,033
Jul-15	SPX	September 18, 2015	2,554,665
Jul-15	SPX	October 16, 2015	278,581
Jul-15	SPX	November 20, 2015	34,602
Jul-15	SPX	December 19, 2015	2,011,369
Jul-15	SPX	January 15, 2016	416,041
Jul-15	SPX	March 18, 2016	230,029
Jul-15	SPX	June 17, 2016	335,424
Jul-15	SPX	December 16, 2016	722,769
Jul-15	SPX	June 16, 2017	8,520
Jul-15	SPX	December 15, 2017	120,475

## 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, 2014 through July 31, 2015.

***13. Monthly volume aggregated for all XSP PM trades***

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-14	XSP	93,153
Sep-14	XSP	73,316
Oct-14	XSP	169,809
Nov-14	XSP	122,156
Dec-14	XSP	106,744
Jan-15	XSP	123,141
Feb-15	XSP	85,532
Mar-15	XSP	98,991
Apr-15	XSP	131,338
May-15	XSP	118,786
Jun-15	XSP	121,451
Jul-15	XSP	127,848

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

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Aug-14	XSP	August 16, 2014	27,226
Aug-14	XSP	September 20, 2014	8,993
Aug-14	XSP	October 18, 2014	36,806
Aug-14	XSP	November 22, 2014	19,738
Aug-14	XSP	December 20, 2014	390
Sep-14	XSP	September 20, 2014	33,039
Sep-14	XSP	October 18, 2014	14,126
Sep-14	XSP	November 22, 2014	22,458
Sep-14	XSP	December 20, 2014	3,566
Sep-14	XSP	January 17, 2015	105
Sep-14	XSP	March 20, 2015	22
Oct-14	XSP	October 18, 2014	49,861
Oct-14	XSP	November 22, 2014	34,761
Oct-14	XSP	December 20, 2014	55,058
Oct-14	XSP	January 17, 2015	29,271
Oct-14	XSP	February 20, 2015	30
Oct-14	XSP	March 20, 2015	828

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Nov-14	XSP	November 22, 2014	43,116
Nov-14	XSP	December 20, 2014	15,770
Nov-14	XSP	January 17, 2015	28,001
Nov-14	XSP	February 20, 2015	24,398
Nov-14	XSP	March 20, 2015	10,853
Nov-14	XSP	June 19, 2015	9
Nov-14	XSP	September 18, 2015	9
Dec-14	XSP	December 20, 2014	39,188
Dec-14	XSP	January 17, 2015	13,243
Dec-14	XSP	February 20, 2015	26,583
Dec-14	XSP	March 20, 2015	27,685
Dec-14	XSP	April 17, 2015	6
Dec-14	XSP	June 19, 2015	26
Dec-14	XSP	September 18, 2015	13
Jan-15	XSP	January 17, 2015	50,215
Jan-15	XSP	February 20, 2015	13,621
Jan-15	XSP	March 20, 2015	28,855
Jan-15	XSP	April 17, 2015	30,172
Jan-15	XSP	May 15, 2015	168
Jan-15	XSP	June 19, 2015	16
Jan-15	XSP	September 18, 2015	75
Jan-15	XSP	January 15, 2016	19
Feb-15	XSP	February 20, 2015	26,882
Feb-15	XSP	March 20, 2015	6,375
Feb-15	XSP	April 17, 2015	24,860
Feb-15	XSP	May 15, 2015	26,487
Feb-15	XSP	June 19, 2015	394
Feb-15	XSP	September 18, 2015	411
Feb-15	XSP	January 15, 2016	123
Mar-15	XSP	March 20, 2015	42,511
Mar-15	XSP	April 17, 2015	16,182
Mar-15	XSP	May 15, 2015	33,772
Mar-15	XSP	June 19, 2015	4,620
Mar-15	XSP	July 17, 2015	20
Mar-15	XSP	September 18, 2015	1,430
Mar-15	XSP	January 15, 2016	437
Mar-15	XSP	March 18, 2016	19
Apr-15	XSP	April 17, 2015	33,161
Apr-15	XSP	May 15, 2015	12,632
Apr-15	XSP	June 19, 2015	52,071
Apr-15	XSP	July 17, 2015	29,826
Apr-15	XSP	August 21, 2015	48
Apr-15	XSP	September 18, 2015	3,459
Apr-15	XSP	December 18, 2015	30
Apr-15	XSP	January 15, 2016	86
Apr-15	XSP	March 18, 2016	25

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
May-15	XSP	May 15, 2015	33,059
May-15	XSP	June 19, 2015	13,898
May-15	XSP	July 17, 2015	38,329
May-15	XSP	August 21, 2015	31,909
May-15	XSP	September 18, 2015	1,247
May-15	XSP	December 18, 2015	101
May-15	XSP	January 15, 2016	212
May-15	XSP	March 18, 2016	31
Jun-15	XSP	June 19, 2015	48,234
Jun-15	XSP	July 17, 2015	30,569
Jun-15	XSP	August 21, 2015	36,329
Jun-15	XSP	September 18, 2015	5,358
Jun-15	XSP	October 16, 2015	6
Jun-15	XSP	December 18, 2015	74
Jun-15	XSP	January 15, 2016	795
Jun-15	XSP	March 18, 2016	86
Jul-15	XSP	July 17, 2015	21,966
Jul-15	XSP	August 21, 2015	7,658
Jul-15	XSP	September 18, 2015	62,155
Jul-15	XSP	October 16, 2015	35,835
Jul-15	XSP	December 18, 2015	145
Jul-15	XSP	January 15, 2016	49
Jul-15	XSP	March 18, 2016	40

***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-14	XSP	107,198
Sep-14	XSP	98,808
Oct-14	XSP	159,677
Nov-14	XSP	152,214
Dec-14	XSP	153,669
Jan-15	XSP	153,152
Feb-15	XSP	147,383
Mar-15	XSP	132,367
Apr-15	XSP	160,375
May-15	XSP	169,429
Jun-15	XSP	165,404
Jul-15	XSP	179,296

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

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Aug-14	XSP	September 20, 2014	45,717
Aug-14	XSP	October 18, 2014	39,374
Aug-14	XSP	November 22, 2014	19,390
Aug-14	XSP	December 20, 2014	2,717
Sep-14	XSP	October 18, 2014	51,487
Sep-14	XSP	November 22, 2014	41,236
Sep-14	XSP	December 20, 2014	5,958
Sep-14	XSP	January 17, 2015	105
Sep-14	XSP	March 20, 2015	22
Oct-14	XSP	November 22, 2014	70,392
Oct-14	XSP	December 20, 2014	59,747
Oct-14	XSP	January 17, 2015	28,690
Oct-14	XSP	February 20, 2015	24
Oct-14	XSP	March 20, 2015	824
Nov-14	XSP	December 20, 2014	61,444
Nov-14	XSP	January 17, 2015	54,791
Nov-14	XSP	February 20, 2015	24,342
Nov-14	XSP	March 20, 2015	11,619
Nov-14	XSP	June 19, 2015	9
Nov-14	XSP	September 18, 2015	9
Dec-14	XSP	January 17, 2015	64,972
Dec-14	XSP	February 20, 2015	49,983
Dec-14	XSP	March 20, 2015	38,652
Dec-14	XSP	April 17, 2015	6
Dec-14	XSP	June 19, 2015	34
Dec-14	XSP	September 18, 2015	22
Jan-15	XSP	February 20, 2015	59,695
Jan-15	XSP	March 20, 2015	63,153
Jan-15	XSP	April 17, 2015	29,971
Jan-15	XSP	May 15, 2015	168
Jan-15	XSP	June 19, 2015	50
Jan-15	XSP	September 18, 2015	96
Jan-15	XSP	January 15, 2016	19
Feb-15	XSP	March 20, 2015	65,616
Feb-15	XSP	April 17, 2015	54,166
Feb-15	XSP	May 15, 2015	26,599
Feb-15	XSP	June 19, 2015	368
Feb-15	XSP	September 18, 2015	493
Feb-15	XSP	January 15, 2016	141
Mar-15	XSP	April 17, 2015	66,192
Mar-15	XSP	May 15, 2015	58,985
Mar-15	XSP	June 19, 2015	4,678
Mar-15	XSP	July 17, 2015	20
Mar-15	XSP	September 18, 2015	1,906
Mar-15	XSP	January 15, 2016	567
Mar-15	XSP	March 18, 2016	19

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Apr-15	XSP	May 15, 2015	68,902
Apr-15	XSP	June 19, 2015	55,757
Apr-15	XSP	July 17, 2015	29,605
Apr-15	XSP	August 21, 2015	48
Apr-15	XSP	September 18, 2015	5,348
Apr-15	XSP	December 18, 2015	25
Apr-15	XSP	January 15, 2016	649
Apr-15	XSP	March 18, 2016	41
May-15	XSP	June 19, 2015	66,106
May-15	XSP	July 17, 2015	63,997
May-15	XSP	August 21, 2015	31,823
May-15	XSP	September 18, 2015	6,495
May-15	XSP	December 18, 2015	126
May-15	XSP	January 15, 2016	812
May-15	XSP	March 18, 2016	70
Jun-15	XSP	July 17, 2015	84,218
Jun-15	XSP	August 21, 2015	67,709
Jun-15	XSP	September 18, 2015	11,527
Jun-15	XSP	October 16, 2015	6
Jun-15	XSP	December 18, 2015	198
Jun-15	XSP	January 15, 2016	1,593
Jun-15	XSP	March 18, 2016	153
Jul-15	XSP	August 21, 2015	73,442
Jul-15	XSP	September 18, 2015	67,949
Jul-15	XSP	October 16, 2015	35,776
Jul-15	XSP	November 20, 2015	0
Jul-15	XSP	December 18, 2015	339
Jul-15	XSP	January 15, 2016	1,614
Jul-15	XSP	March 18, 2016	176

#### ***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 XSP AM options during August 1, 2014 through July 31, 2015.

**19. Monthly volume aggregated for all XSP AM trades**

<u>Month</u>	<u>Index</u>	<u>Volume</u>
Aug-14	XSPAM	1
Sep-14	XSPAM	4
Oct-14	XSPAM	25
Nov-14	XSPAM	2
Dec-14	XSPAM	5

**20. Monthly volume for XSP AM trades aggregated by expiration date**

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>Volume</u>
Aug-14	XSPAM	December 20, 2014	1
Sep-14	XSPAM	December 20, 2014	4
Oct-14	XSPAM	December 20, 2014	25
Nov-14	XSPAM	December 20, 2014	2
Dec-14	XSPAM	December 20, 2014	5

**21. Monthly volume for individual XSP AM series**

*See Attached Spreadsheet Tab “XSPAM Monthly Volume by Series”*

**22. Month-end open interest aggregated for all XSP AM series**

<u>Month</u>	<u>Index</u>	<u>OI</u>
Aug-14	XSPAM	747
Sep-14	XSPAM	746
Oct-14	XSPAM	738
Nov-14	XSPAM	738

**23. Month-end open interest for XSP AM series aggregated by expiration date**

<u>Month</u>	<u>Index</u>	<u>Expiration</u>	<u>OI</u>
Aug-14	XSPAM	December 20, 2014	747
Sep-14	XSPAM	December 20, 2014	746
Oct-14	XSPAM	December 20, 2014	738
Nov-14	XSPAM	December 20, 2014	738

**24. Month-end open interest for individual XSP AM series**

*See Attached Spreadsheet Tab “Month-end OI by Series”*