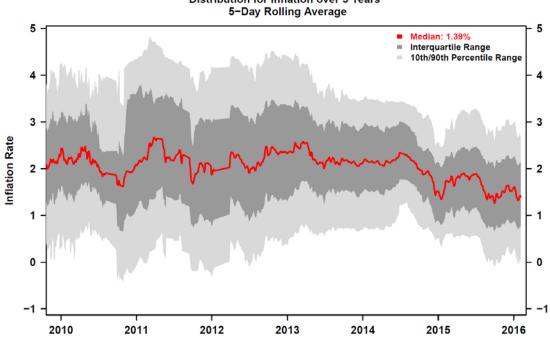
### Minneapolis Options Report – February 5<sup>th</sup>

Over the past two weeks, market-implied inflation expectations rose for all inflation tenors we follow. Changes in market-based probability distribution (MPD) standard deviations and skews were negligible across all inflation tenors. The 3-month LIBOR median, 5-year tenor, jumped by 110 basis points to 2.16%, one of its largest movements within the last 12 months. The S&P 500 returned 2.9% as its MPD standard deviation decreased by -1.6% and -1.9% for the 6- and 12 month tenors, respectively. This indicated a reduction in market-implied uncertainty. The banking firms we follow, on average, underperformed the market, averaging a -3.0% return as MPD standard deviation held steady week-overweek. The insurance firms we follow returned -0.12% while industry-average MPD standard deviations decreased in line with changes experienced by the S&P 500. The euro and pound were stronger against the dollar: MPD standard deviation for the USD-Pound pairing remains elevated above its 4-year 75th percentile indicating a high relative degree of uncertainty around the exchange rate. WTI crude climbed 16% during the 2-week reporting period, as its MPD standard deviation retreated from its 4-year high by 2 percentage points.

### Inflation

Market-based inflation expectations derived from caps and floors on the CPI for 1-, 2-, and 5-year tenors increased modestly over the 2-week period to 1.06%, 1.19%, and 1.38%, respectively. The rise can be best observed in the 5-year tenor, but it should be noted that the current 5-year median inflation level is much lower than previous 5-year median expectations (see chart below).



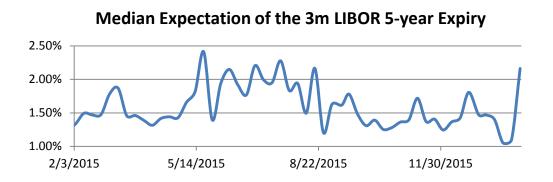


Additional detail:

- Changes in MPD standard deviations continue to hold steady across all tenors, indicating that investor uncertainty has remained relatively constant over the 2-week reporting period.
- The probability of low inflation (market probability of less than 1% inflation) moved lower across all tenors indicating a further reduction in tail risk. Current levels, however, remain well above the 75<sup>th</sup> percentile for the past 48 months of observations.

### Interest Rate

Spot prices for all Treasury tenors rose over the two week period, and yields fell; respective MPD statistics were largely unchanged. The median of the 5-year LIBOR tenor rose sharply by 110 basis points, one of its largest movements within the last 12-months (see plot below).



During this same period, MPD statistics associated with the 5-year LIBOR tenor set new 4-year lows, notably MPD standard deviation is at 1.41%, its lowest point in 4 years. The market probability of less than 1% LIBOR declined by 29% corroborating the recent rise in median expectation for the 5-year LIBOR tenor.

### Banks and Insurance Companies

The S&P 500 gained 2.9% over the past two weeks and MPD standard deviation declined by an average of 1.75% for the 6- and 12-month tenors, suggesting that investor uncertainty has moved lower. The bank firms we follow posted a -3.0% return, underperforming the market while MPD standard deviation held steady over the two-week period. The insurance firms we follow underperformed the market with a - 0.1% return and MPD standard deviation decreased by -1.2% reflecting a reduction in investor uncertainty.

Additional details:

- 8 out of 19 banks we follow posted new 1-year highs for MPD standard deviation, indicating higher market uncertainty surrounding these firms.
- 13 out of 19 banks reported earnings per share (EPS) in-line with or exceeding analysts' expectations. Notably GS and MS posted 33% EPS surprise each, whereas BCS reported a -19% EPS surprise.
- AMP was the only insurer to experience an increase in MPD standard deviation and set a new 1year high at 17.6% as its market probability of a -20% or more decline increased by 5.2% (see chart below).

Indicator	Latest	2−Week Change	<b>1-Year Trend</b> with min/max points	Long-Term Range with median, IQR, and max/min		
		MPD Standard Devi	ation (3–Month Expiry)			
Ameriprise	17.63%	0.32% <sup>17.63</sup> 9.76	$\sim$	17,63 8.98 +		
Market Probability of -20% or More Decline (3-Month Expiry)						
Ameriprise	16.29%	5.2% 16.29 3.68		2.4 F - 16.29 last 48 months		

#### Insurance Company MPD Statistics as of February 04, 2016

### Other Markets

• iShares US Real Estate Index outperformed the market, returning 4.0%. The change in MPD standard deviation was in line with the MPD standard deviation change posted by the S&P 500, falling by 1.2 percentage points.

- The euro and pound were stronger against the dollar over the two-week period. MPD skew for the USD-Euro pair has been increasing since Dec, 2015 and is near its 4-year high, suggesting a comparatively stronger euro in the future.
- Gold and silver rose on average by 3.6% as MPD skews rose to new 1-year highs. The proximity to 0 for the precious metal skews signals neutral bias with regard to future price changes.
- MPD standard deviation for lean hogs decreased to 13.2%, its lowest point within the last 12 months. It has trended downward since Nov 2015, implying that investor uncertainty has fallen over this time period.
- WTI crude returned 16% over the 2-week period, as MPD standard deviation decreased by -1.9% signaling that WTI crude's market-implied uncertainty has recently fallen. The increased spot price still stands near it 4-year low at \$32.5.

Indicator	Latest	2-Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		Inflati	on (1–Year Expiry)	
Median	1.06%	0.053%	1.9 Apr29 0.25 Feb04	1.06 −0.15 ⊢ − − − − − − − − − − − − − − 2.65 last 48 months
MPD Std Dev	1.17%	-0.004%	1.51 Mav06 1.07 Feb04	1.17 0.83 ⊢ – ↓ 2.75 last 48 months
MPD Skew	-0.7	-0.06	0.16 Feb04	-0.7 -0.77 +
Market Prob of Less Than 1% Inflation	47.58%	-2%	74.12 Feb04 27.11 Apr29	47.58 11.88 ⊢ – – – – – – – – – – – – 85.35 last 48 months
Market Prob of More Than 3% Inflation	2.4%	0.063%	15.81 Apr29 0.36 Aug26	2.4 0.23 + 40.43 last 48 months
		Inflati	on (2–Year Expiry)	
Median	1.19%	0.065%	0.85 Aug26	1.19 0.72 ⊢
MPD Std Dev	1.2%	-0.048%	1.32 Apr29 1.13 Feb24	0.88 ⊢ – – – – – – – – – 1.66 last 47 months
MPD Skew	-0.07	-0.18	0.19 Aug26 -0.4 Mar25	-0.07 -0.4 F - 12.74 last 47 months
Market Prob of Less Than 1% Inflation	42.88%	-2.4%	55.48 Aug26	42.88 10.74 ⊢ – – – – – – – – – – – 61.36 last 47 months
Market Prob of More Than 3% Inflation	6.09%	-0.45%	17.23 4.52 Aug26	6.09 1.8 ⊢ − − − − − − − − − − 27.1 last 47 months
		Inflati	on (5–Year Expiry)	
Median	1.38%	0.072%	1.29 Sep30	1.38 1.29 ⊨ – – – – – – – – – – – – – 2.6 last 47 months
MPD Std Dev	1.1%	-0.07%	1.23 Oct07 0.96 Feb18	1.1 0.91 ⊢ – – – – – – – – – 1.68 last 47 months
MPD Skew	0.15	-0.19	0.78 Oct07 -0.08 Mar25	-0.1 ⊢
Market Prob of Less Than 1% Inflation	34.67%	-2.7%	38.01 Sep30 19.52 Mar04	34,67 7.13 ⊢ – – – – – – – – – – – 38.01 last 47 months
Market Prob of More Than 3% Inflation	6.78%	-0.72%	15.28 Jun17 6.78 Feb03	6.78 5.02 + 37.29 last 47 months

# Inflation MPD Statistics as of February 03, 2016

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		5 Year T	reasury	(3–Month Expiry)	
Spot	120.7	0.4%	121.01 118.22	Oct14	120.7 118.05 +
MPD Std Dev	1.74%	-0.21%	2 1.49	Mar <sup>04</sup>	1.41 + 1.74 last 17 months
MPD Skew	0.13	-0.023	0.15 -0.54		-0.54 ⊨ □ 0.13 last 17 months
Market Prob of –3% or More Decline	4.22%	-1.4%	6.61 2.59	Jup03 Apr15	4.22 2.44 ⊢ – – – – – – – – – – – 8.74 last 17 months
Volume	15064	-95%	335039 0		15064 2054 + 1977550 last 17 months
		10 Year 1	Freasury	(3–Month Expiry)	
Spot	129.54	0.51	129.54 <b>%</b> 124.66	Jun10	129,54 122.97 ⊢ – – – – – – – – – – – 130.47 last 28 months
MPD Std Dev	2.77%	-0.52%	3.3 2.46	Apr15	2.17 +
MPD Skew	0.17	-0.01	0.25 -0.39	Feb11 May13	-0.75 +
Market Prob of –5% or More Decline	3.53%	-2.2%	6.49 2.46	Apr15	1.62 ⊢ – last 28 months
Volume	54550	-94%	936747 0		54550 5226 +

## Medium-to-Long Bond Price MPD Statistics as of February 04, 2016

# Short Interest Rates MPD Statistics as of February 03, 2016

Indicator	Latest	2–Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		3 Month	LIBOR (3–Year Expiry)	
Median	0.99%	-0.094%	1.71 Jun10 0.99 Feb03	0.99 0.72 F
MPD Std Dev	1.07%	-0.038%	2.17 Feb11 1.07 Feb03	1.07 0.68 ⊢ – – – – – – – – – – – – – – – – – 2.17 last 48 months
MPD Skew	1.52	0.41	3.36 Feb11 0.4 Juno3	0.4 ⊢ 1.52 0.4 ⊢ 1.52 last 48 months
Market Prob of Less Than 0.5% LIBOR	25.27%	1.6%	25.57 Oct14 14.23 Dec23	25.27 9.79 ⊨ – – – – – – – – – – – 38.35 last 48 months
Market Prob of More Than 1% + Spot	25.24%	-6.9%	61.18 Jun10 25.24 Feb03	7.61 $\vdash$
		3 Month	LIBOR (5–Year Expiry)	
Median	2.16%	1.1%	2.41 May20 1.05 Jan20	2.16 0.94 ⊢ – – – – ⊣ 2.99 last 46 months
MPD Std Dev	1.41%	-0.19%	2.44 Aug26 1.41 Feb03	1.41 1.41 ⊢ – – – – – – – – – – – – – 2.85 last 46 months
MPD Skew	0.2	-1.7	2.53 0.2 Aug26 Feb03	0.2 0.2 +
Market Prob of Less Than 1% LIBOR	19.19%	-29%	47.84 Jan20 19.19 Feb03	19,19 17.66 + 53.02 last 46 months
Market Prob of More Than 2% + Spot	0.2%	-25%	52.05 Jun17 0.2 Feb03	0.2 0.2 +

Indicator	Latest	2–Week Change	9	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min			
	S&P 500 (6–Month Expiry)							
Spot	1912.53	2.9%	2125.85 1859.33		1912.53 1310.33 ⊢ – – – – – – – – – – – – – – – – – –			
MPD Std Dev	14.9%	-1.6%	16.55 9.85	Jap21 Aug05	14.9 8.87 ⊢			
MPD Skew	-1.38	0.036	-1.27 -1.66		-1.38 -1.66 +			
Market Prob of –20% or More Decline	9.99%	-1.1%	11.13 4.72	Jul 29	9.99 3.65 +			
Volume	121273	-39%	199186 0		121273 13428 + - 121273 Iast 48 months			
		S&P 5	500 (12-	-Month Expiry)				
Spot	1912.53	2.9%	2125.85 1859.33	May20 Jan21	1912.53 1310.33 +			
MPD Std Dev	21.65%	-1.9%	23.52 16	Jul 29	21.65 10.5 +			
MPD Skew	-1.48	-0.038	-1.27 -1.63		-1.48 -1.63 +			
Market Prob of –20% or More Decline	15.73%	-1.6%	17.37 10.24		15.73 5.51 ⊨ – – – – – – – – – – – – – – – – – –			
Volume	69919	-34%	105728 0	ulummantallummulallu	69919 3174 ⊢ - — – – – – – – – – – – – – – – – – – –			
		iShares US Rea	I Estate	e Index (3–Month Expiry	/)			
Spot	71.6	4%	80.76 68.87	Feb18 Jan21	71.6 60.14 ⊢ – – – – – – – – – – – – 82.44 last 48 months			
MPD Std Dev	10.45%	-1.2%	11.83 6.94	Sep09 Jul29	10,45 4.77 ⊨ – – – – – – – – – – – 12.46 last 48 months			
MPD Skew	-1.07	-0.14	-0.48 -1.34	Jun24 Dec16	-2.09 F			
Market Prob of –10% or More Decline	17.15%	-0.15%	20.5 8.45	Sep09	17,15 3.43 + 1 20.5 last 48 months			
Volume	32	-100%	141443 0		32 32 32 <b>1</b> 32 <b>11</b> 32 <b>11</b> 3 <b>1111111111111</b>			

# Equity Index MPD Statistics as of February 04, 2016

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min			
		Dollar-Euro	Future	es (3–Month Expiry)				
Spot	1.11	1.8%	1.15 1.05	Oct14 Mar11	1.11 1.05 F I.39 last 48 months			
MPD Std Dev	4.96%	-0.065%	8.42 4.48	Aug26 Feb25	4.96 2.4 <b></b>			
MPD Skew	0.16	0.076	0.2 -0.54	Juno3	-0.68 +			
Market Prob of –10% or More Decline	2.01%	-0.3%	10.68 1.43	Aug26	0.02 F 10.68 last 48 months			
Volume	76559	150%	98539 0		76 <u>5</u> 59 5162 <b>⊢ – – – – – – – – – – – – – –</b> 98539 last 48 months			
	Dollar–Pound Futures (3–Month Expiry)							
Spot	146.01	3.2%	158.19 141.54	Jun17 Jan21	146.01 141.54 ⊨ – – – – – – – – – – – 171.39 last 48 months			
MPD Std Dev	5.01%	0.44%	6.67 3.31	Apro1	5.01 2.36 +			
MPD Skew	-0.01	0.1	0.04 -0.7	Oct07 Mar04	-0.01 -0.92 +			
Market Prob of -10% or More Decline	2.63%	0.67%	7.63 0.27	Apr01 Feb25	0.01 ⊢ □ 2.63 last 48 months			
Volume	13784	22%	38626 0	แต่เสปไหลองปกองเป็นสาวเป็น	13784 536 г — — – – – – – – – З 38626 last 48 months			
		Dollar-Yen	Future	es (3–Month Expiry)				
Spot	85.03	-0.79%	85.71 80.11	Jan21 Aug05	85.03 80.11 ⊢			
MPD Std Dev	5.66%	-0.097%	8.83 3.9		5.66 2.76 ⊢ – – – – – – – – – 8.83 last 48 months			
MPD Skew	0.33	-0.061	0.39 -0.4	Jan21 May20	-0.44 +			
Market Prob of -10% or More Decline	3.18%	-0.25%	11.17 0.82	Aug26	3.18 0.02 ⊢ []			
Volume	34581	160%	45672 0	16มปและมปปแกลปม.กมป	34 <u>5</u> 81 787 ⊢ – <u>– – – – – – – – – – 4</u> 45672 last 48 months			

## Exchange Rate MPD Statistics as of February 04, 2016

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min		
		Gold	(6–M	onth Expiry)			
Spot	1142.37	3.3%	1220.47 1054.83	Feb11	1142.37 1054.83 + - Last 48 months		
MPD Std Dev	12.53%	0.47%	13.2 10.81	Mar18 May27	12.53 9.39 ⊢ – – – – – – – – – – – 17.15 last 48 months		
MPD Skew	0.07	0.012	0.07 -0.6	Jui22	-0.71 +		
Market Prob of –20% or More Decline	6.22%	0.97%	7.23 4.3	Mar18 May27	6.22 2.39 +		
Volume	2665	-73%	36077 0		2665 378 + 10		
	Silver (6–Month Expiry)						
Spot	14.76	3.9%	17.26 13.82	May13 Jan01	14,76 13.82 ⊬		
MPD Std Dev	18%	-1.1%	22.17 17.38	Feb18 Jan01	13.16 +		
MPD Skew	0.01	0.22	0.01 -0.45	Aug26	-0.63 +		
Market Prob of –20% or More Decline	13.68%	-1.2%	18.26 11.99	Mar18 Jan01	13,68 6.54 +		
Volume	437	-78%	6702 0	u. Itaantul Itaanaan wax	437 72 4		
		West Texas Intern	nediate	e Crude (6–Month Expiry	/)		
Spot	37.67	16%	63.65 32.5	Jan21	37.67 32.5 + □ 109.02 last 48 months		
MPD Std Dev	36.95%	-1.9%	38.8 22.03	Jun10	36.95 10.25 ⊢ – J 38.8 last 48 months		
MPD Skew	-0.41	0.047	-0.24 -0.76	Mar04	-0.41 -0.81 <b></b>		
Market Prob of –20% or More Decline	29.35%	-2.1%	31.42 17.51	Jan21 May20	29.35 3.65 +		
Volume	12040	260%	70029 0		12040 165 III		

## Metal and Energy Commodity MPD Statistics as of February 04, 2016

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min		
		Corr	n (6–M	onth Expiry)			
Spot	381.38	0.74%	440.56 356.74	Jul 15 May 27	381.38 334.65 + 123.75 last 48 months		
MPD Std Dev	14.49%	-0.57%	20.6 12.41	Mar25 Dec16	14.49 12.41 ⊢ – – – – – – – – – – – – – – – 24.61 last 48 months		
MPD Skew	0.42	-0.044	0.61 0.05	May06 Oct14	-0.19 + 0.61 last 48 months		
Market Prob of –20% or More Decline	8.18%	-1%	19.2 4.96	Mar11 Dec16	8.18 4.96 +		
Volume	18916	-26%	377209 0		18916 5486 +		
Soybeans (6–Month Expiry)							
Spot	886.4	0.73%	1032.2 864.89	Jul01	886.4 864.89 ¥ 1 1691.25 last 48 months		
MPD Std Dev	11.34%	0.22%	17.76 10.96	Julos Jan14	11.34 10.93 +		
MPD Skew	-0.04	0.036	0.24 -0.23	Jun17 Sep23	-0.5 F		
Market Prob of –20% or More Decline	4.57%	0.19%	11.46 4.17	Mar18 Jan14	4.57 4.07 +		
Volume	29210	30%	82132 0	aadddaddlaantaar	29210 496 H		
		Whea	at (6–N	Ionth Expiry)			
Spot	487.68	1.4%	596.88 473.97	Jul01	487,68 473.97 + 1		
MPD Std Dev	17.02%	-0.36%	22.31 16.04		17.02 12.95 ⊢ – – – – – – – – – – – – – – – – – 26.5 last 48 months		
MPD Skew	0.57	0.041	0.57 0.15	Julos	0.57 0.01 ⊢ – – – – – – – – – – – 0.57 last 48 months		
Market Prob of –20% or More Decline	12.39%	-0.88%	20.71 10.96		12.39 5.67 +		
Volume	5312	-35%	46232 0	dadtallilland	5312 179 + 179 51689 last 48 months		

# Agricultural Crop Commodity MPD Statistics as of February 04, 2016

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		Cattle	e (6–M	onth Expiry)	
Spot	121.19	0.98%	156.32 117.76	Jun10 Dec09	121,19 117.76 – – – – – – – – – – 170.32 last 31 months
MPD Std Dev	11.86%	-3%	14.9 7.8	Jun24	11.86 3.6 н – I 14.9 last 31 months
MPD Skew	-0.63	-0.095	-0.18 -0.66	Sep30 Jan07	-0.63 -0.94 ⊢
Market Prob of –5% or More Decline	29.36%	-3.8%	35.84 23.02		29.36 8.46 ⊢ – – – – 35.84 last 31 months
Volume	5420	-46%	24569 0		5420 1263 н – Цартана – – – – – – – – Зав50 last 31 months
		Hogs	s (6–M	onth Expiry)	
Spot	79.28	1.9%	84.46 60.95	Feb25	79,28 60.95 ⊢
MPD Std Dev	13.16%	-0.81%	20.24 13.16	Juli22 Feb04	13.16 13.16
MPD Skew	-0.56	-0.066	-0.08 -0.69	Feb11 Sep09	-0.56 -0.69 ⊢
Market Prob of –20% or More Decline	8.26%	-0.44%	16.97 8.26	Nov18 Jan28	8.26 8.05 +
Volume	1162	57%	16073 0	manatunallahaaataattaataa	1162 53 F

# Agricultural Livestock Commodity MPD Statistics as of February 04, 2016

Indicator	Latest	2–Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		MPD Standard	Deviation (3–Month Expiry)	
American Express	14.47%	0.87%	14.47 8.53 Feb04 May20	14.47 7.82 ⊨ – – J 15.32 last 48 months
Bank of America	17.83%	0.42%	17.83 9.68 Hay27	17.83 9.68 ⊢
BB&T	14%	-0.62%	14.61 Jap21 7.54 Jul22	7.29 F 14 
Barclays	20.46%	-0.19%	20.65 Jap21 10.93 Feb11	20.46 10.93 ⊢ - □
Bank of NY Mellon	15.44%	-0.32%	15.76 Jan21 7.13 Jul22	15.44 7.13 ⊢ – – — – – – – – – – – 18.76 last 48 months
Citigroup	18.42%	0.66%	18.42 Feb04 8.94 Apr29	18.42 8.52 ⊢
Capital One	16.66%	-2.4%	19.11 Jan21 8.35 Jun24	16.66 7.72 ⊢ 19.11 last 48 months
Credit Suisse	23.5%	-0.27%	24.1 Sep30 11.94 Jul29	23.5 9.84 ⊢ -
Deutsche Bank	25.68%	1.7%	25.68 Feb04 13.25 Feb25	25.68 11.33 ⊢ 29.34 last 42 months
Fifth Third	17.56%	1.2%	17.56 Feb04 8.88 Apr29	17.56 8.21 ⊢ – - – – – – – – – 18.36 last 48 months
Goldman Sachs	16.04%	-0.027%	16.06 Jan21 8.4 May27	16.04 8.23 ⊢ 20.08 last 48 months
JP Morgan	15.2%	0.19%	15.2 8.19 Jul22	15.2 7.41 ⊢ – □ – – – – – – – – – 20.58 last 48 months
Keycorp	16.74%	-1.9%	18.68 Jan21 9.92 Jul29	16.74 8.98 ⊢ – – last 48 months
Morgan Stanley	19.63%	1.1%	19.63 8.97 May27	19.63 8.97 ⊢
PNC Financial	13.28%	-0.66%	14.53 Aug26 7.58 Jun24	13,28 7.45 ⊢ 16.73 last 48 months
Regions Financial	18.03%	1.6%	19.55 Sep09 10.09 May27	18.03 10.09 ⊢
SunTrust	16.92%	0.18%	16.92 Feb04 8.49 May20	16,92 7.82 ⊢ - last 48 months
State Street	15.95%	-2.5%	18.49 Jan21 9.09 Jun03	15.95 8.81 ⊢ – – – – – – – – – 18.49 last 48 months
UBS	13.36%		19.02 Mar06 8.7 Sep24	8.7 + 13,36 8.7 + 13,36 last 35 months
US Bancorp	12.63%	-1.6%	14.54 Sep09 6.99 Juli 15	12,63 6.58 ⊨
Wells Fargo	13.98%	-0.76%	14.79 7.32 Aug05	13.98 7.16 ⊨ 13.98 last 48 months

Indicator	Latest	2-Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		MPD Skew	(3–Month Expiry)	
American Express	-0.69	-0.053 -0.1	96 Sep02	-0,69 -1.27 + 0.21 last 48 months
Bank of America	-0.75	0.044 -0.9	99 Sep02	-0.75 -1.01 +
BB&T	-0.86	0.23 -1.	56 Nov04	-0.86 -1.56 +
Barclays	-0.03	0.47	Febző	-2.51 +
Bank of NY Mellon	-1.33	-0.53	39 Nov11	-1.33 -1.39 +
Citigroup	-0.99	-0.12	17 Aug26	-0.99 -1.23 +
Capital One	-0.9	0.14 -1.0		-0.9 -1.09 + 1.09
Credit Suisse	-0.01	-0.51	58 Apr01	-2.07 +
Deutsche Bank	-0.86	-0.78	D6 Mar18	-0.86 -1.31 + 1.31 0.41 last 42 months
Fifth Third	-0.15	1.1 -1.6	59 Dec24	-0.15 -1.69 +
Goldman Sachs	-0.79	-0.011 -0.0 -1.0	09 Sep02	-0.79 -1.21 +
JP Morgan	-0.99	-0.16 -0.9	16 Sep02	-0.99 -1.33 +
Keycorp	-0.9	-0.22 0.: -1.:	59 May13	-2.24 +
Morgan Stanley	-0.8	0.015 -0.: -1. <sup>-</sup>	12 Sep02	-0.8 -1.16 + 0.25 last 48 months
PNC Financial	-1.06	-0.062 -0.4 -1.8		-1.84 ⊨
<b>Regions Financial</b>	-0.28	0.17 0.: -1.:		-0.28 -1.94 +
SunTrust	-0.52	0.47 -0.3		-0.52 -1.27 +
State Street	-0.76	-0.0015 -0.	23 Aug26	-0.76 -2.31 ⊢
UBS	-0.04	0.9 -1.7		-0.04 -3.36 +
US Bancorp	-1.12	-0.22	<sup>39</sup>	-1.12 -1.55 + 0.2 last 48 months
Wells Fargo	-0.83	0.18 -0.	56 May 20	-0.83 -1.34 <b></b> 0.42 last 48 months

Indicator	Latest	2-Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
	Mar	ket Probability of -2	0% or More Decline (3–Month E	kpiry)
American Express	9.62%	1.2%	9.62 2.19 Feb04 May20	9.62 1.53 ⊢
Bank of America	13.13%	0.6%	13.13 3.14 Jun24	13,13 3.13 ⊢
BB&T	10.43%	1.9%	10.43 1.82 Jul22	10.43 1.68 <b>μ⊡</b>
Barclays	22.45%	6.4%	22.45 Feb04 2.33 Feb11	22.45 2.33 ⊢ □
Bank of NY Mellon	10.18%	-1.1%	11.32 1.12 Jun24 Jan14 Jun24	10.18 1.12 + 13.52 last 48 months
Citigroup	13.91%	2.6%	13.91 Feb04 2.32 Apr29	13.91 1.93 ⊢
Capital One	14.29%	1.3%	14.29 2.37 Jun24	14.29 1.64 ⊢
Credit Suisse	26.85%	5.4%	26.85 Feb04 5.22 Jul 29	26.85 2.87 ⊢ 26.85 last 48 months
Deutsche Bank	19.56%	-3.8%	23.37 Jap21 6.37 Feb25	19.56 4.99 +
Fifth Third	16.61%	6.5%	16.61 Feb04 2.45 Apr29	16.61 0.99 ⊢
Goldman Sachs	10.78%	-0.12%	10.9 2.18 May27	10.78 1.79 ⊢ – – – – – – – 13.83 last 48 months
JP Morgan	11.05%	2%	11.05 2.08 Apr29	11.05 1.31 <b>⊢ – — — – – – – – – – – 1</b> 14.98 last 48 months
Keycorp	13.27%	-0.17%	13.45 2.08 Mar18	13.27 1.92 +
Morgan Stanley	15.05%	1.7%	15.05 2.57 May27	15.05 2.57 ⊢
PNC Financial	9%	-0.53%	9.81 1.67 Jun24	1.43 ⊢ 11.88 last 48 months
Regions Financial	16.36%	4.3%	16.36 3.34 Hay27 Feb04	16.36 3.34 ⊢ –
SunTrust	13.52%	2.3%	13.52 2.53 May20 Feb04	13.52 1.73 ⊢ – ☐ – – – – – – – – – – – – – – 19.3 last 48 months
State Street	12.3%	-3.4%	15.74 2.96 Jun24	12.3 2.26 ⊢ – ↓ 15.74 last 48 months
UBS	7.28%		18.15 1.53 Dec31	1.53 ⊢ – – – 19.1 last 35 months
US Bancorp	7.21%	-1.5%	9.41 Sep09 1.39 Juli15	7.21 0.74 ⊢
Wells Fargo	8.45%	-1.5%	9.93 1.55 Aug05	8.45 1.3 ⊢

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min		
Volume (3–Month Expiry)							
American Express	6597	13%	32713 0		6597 623 ⊨ ┣╋ – – – – – – – – – – – – – – 32713 last 48 months		
Bank of America	69399	-40%	187673 0	dud.h.um	69399 7419 ⊢ III		
BB&T	1895	-68%	6459 0	w.w.dartita.ladaadlu	1895 126 ⊢		
Barclays	199	-82%	4055 0	adaalladaaa maaaadaalii	199 8 ₩1		
Bank of NY Mellon	468	-79%	22171 0		468 44 <b>1</b>		
Citigroup	22900	-28%	57016 0	แม่ไปไรรถได้ระระสะสน	22900 1104 ⊢ ☐ – – – – – – – – – – 140439 last 48 months		
Capital One	800	-79%	7596 0	และสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวสาวส	800 136 HTT		
Credit Suisse	60	-52%	12477 0		0 <b>1</b>		
Deutsche Bank	15757	260%	15757 0	المحمد المعدية	15757 76 H		
Fifth Third	1004	-77%	7607 0	ปลองที่ปองปลงองไปห	1004 28 H		
Goldman Sachs	14702	8.7%	19311 0	ntatomotaana.lluthlullt.u.dh	296 + - 14702 last 48 months		
JP Morgan	8450	-85%	132116 0		8450 943 + 12		
Keycorp	256	-90%	2552 0	ล.ป	256 44 76270 last 48 months		
Morgan Stanley	19564	21%	36166 0	daamaaahdadkaatd	19564 327 ⊨ □		
PNC Financial	668	82%	4932 0	taalataa	668 42 ⊢ 1		
Regions Financial	910	-57%	47940 0	<u> </u>	910 20 10		
SunTrust	1796	-33%	4808 0	h.hada.a.du.dunddala.add	1796 61 HL		
State Street	277	-4.2%	1357 0	huldtahdhansdidhna si madhara	277 19 H		
UBS	124	<u>.</u>	2034 0	1111. honedhulet	124 6 H		
US Bancorp	1574	-80%	9927 0		1574 52 H =		
Wells Fargo	21565	11%	55478 0	หละสะสมับปละอาณาไปไปเป็นไปเป็นสะเสม	21565 950 ⊢☐ – – – – – – – – – – 121351 last 48 months		

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min	
MPD Standard Deviation (3–Month Expiry)						
Aflac	11.86%	-1.2%	13.29 7.11	Aug26 May20	11,86 7.11 ⊨	
AIG	14.94%	-0.65%	15.59 9.01	Jan21	14.94 8.7 ⊢ 14.94 Iast 48 months	
Allstate	12.2%	-0.99%	13.18 6.73	Jan21 May20	12.2 5.83 ⊢ – – – – – – – – – – – – – 13.46 last 48 months	
Ameriprise	17.63%	0.32%	17.63 9.76	Feb04	17.63 8.98 ⊢ – – – – – – – – – – – – – – – – – –	
Chubb	11.95%	-0.1%	24.08 6.13	Aug19 Dec24	11.95 5.96 ⊢	
Hartford Financial	15.68%	-3%	18.69 8.35	Jan21	15.68 8.35 ⊢	
Lincoln National	17.89%	-2.1%	19.94 8.98	Jan21 May27	17.89 8.98 ⊢ – – □ 17.89 – – – – – – – – – – 24.62 last 48 months	
Met Life	15.92%	-2.2%	18.13 9.4	Jan21 Apr15	9.4 + - 23.13 last 48 months	
Principal Financial	17.49%	-0.78%	18.54 8.26	May20	17.49 8.02 +	
Progressive	11.63%	-0.69%	13.49 5.79	Jun24	11.63 5.79 +	
Prudential	17.06%	-1.5%	18.54 10.09	Jun24	17.06 10.09 ⊢ – ☐ – – – – – – – – 20.74 last 48 months	

Indicator	Latest	2–Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min		
MPD Skew (3–Month Expiry)						
Aflac	-1.12	0.049	-0.24 Sep09 -1.31 Oct28	-1,12 -1.31 +		
AIG	-1.14	-0.21	-0.47 Jup24 -1.16 Oct14	-1.14 -1.16 $\overleftarrow{F}$ $\overrightarrow{I}$ 0.03 last 48 months		
Allstate	-1	-0.072	-0.16 Oct14 -1.11 Feb11	-1.5 + + -0.12 last 48 months		
Ameriprise	-0.63	0.47	-0.32 Jap07 -1.1 Jan21	-0.63 -4.03 +		
Chubb	-0.99	-0.21	0.09 Aug19 -1.42 Sep02	-0.99 -1.56 +		
Hartford Financial	-1.49	-0.15	-0.09 Jul22 -1.67 Nov04	-1.49 -1.67 + 0.09 last 48 months		
Lincoln National	-0.44	0.53	-0.07 Aug05 -1.15 Aug26	-0.44 -1.15 +		
Met Life	-0.98	-0.17	-0.46 -0.99 Jan07	-0.98 -1.15 +		
Principal Financial	-0.08	0.19	0.42 Oct21 -1.82 Mar25	-2.95 +		
Progressive	-0.64	0.69	0.42 Mar04 -2.03 Jun10	-3.54 +		
Prudential	-0.92	0.065	-0.33 Apr22 -1.04 Nov18	-0.92 -1.44 +		

Indicator	Latest	2-Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min	
	Market Probability of –20% or More Decline (3–Month Expiry)					
Aflac	6.83%	-0.88%	7.71 1.37	Jun24	6,83 1.37 ⊢ ()	
AIG	9.67%	-0.95%	10.63 2.51	Jan21	9.67 2.44 ⊢ – – – – – – – – – 17.45 last 48 months	
Allstate	6.87%	-1%	7.91 1.01	Jan21 May20	0.56 ⊢ – – last 48 months	
Ameriprise	16.29%	5.2%	16.29 3.68	Feb04	16.29 2.4 ⊢	
Chubb	7.32%	-0.13%	12.5 0.55 Feb2		7.32 0.55 <b>F</b>	
Hartford Financial	9.45%	-1.6%	11.78 2.61	Sep09	9.45 2.19 + - 22.23 last 48 months	
Lincoln National	13.91%	-0.98%	15.23 2.26	Jan28 May27	13.91 2.26 ⊢ □	
Met Life	11.63%	-1.3%	12.95 3.26	Jan21	11.63 3.26 ⊢	
Principal Financial	14.19%	-1.9%	17.72 2.22	Sep09 May06	14.19 0.43 ⊢ – – – – – – – – – – 20.44 last 48 months	
Progressive	6.69%	-0.79%	8.67 0.15	Oct21 Jun24	6.69 0 ⊢ Ⅲ – – – – – – – – – – 39.73 last 47 months	
Prudential	14.58%	1.3%	14.58 4.02	Jun24	14.58 3.99 ⊢ – □ – – – – – – – – – – – – – – 17.82 last 48 months	

Indicator	Latest	2-Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min	
Volume (3–Month Expiry)						
Aflac	406	-41%	13168 0	dududu	406 88 ↓ 22718 last 48 months	
AIG	4375	-49% <b>(</b>	69392 0	l	4375 110 – – – – – – – – – – – – – 103998 last 48 months	
Allstate	1046	-40%	4626 0	aumhhalldna.uuau	1046 63 H 10621 last 48 months	
Ameriprise	136	-55%	881 0	r.mallhe.comtheanac.com	136 5 ⊢ III	
Chubb	886	320%	9027 0		886 3 <b>1 </b>	
Hartford Financial	552	-72%	9444 0		552 16 19	
Lincoln National	1006	-25%	2626 0	htdammallucuthda	1006 51 אוד	
Met Life	7256	-22%	20912 0		7256 319 📲	
Principal Financial	253	83%	610 0	Inauta, and Indianta Int	253 2 ¶	
Progressive	191	150%	2216 0		191 0 <b>▲</b>	
Prudential	2486	-1.7%	17185 0	hadalaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	2486 222 FIL	