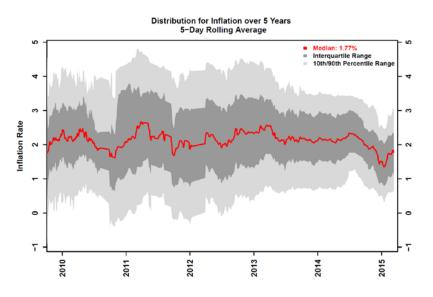
Minneapolis Options Report – March 13th

The positive reversal in median inflation rates that began earlier this year appears to have leveled off, but market-implied uncertainty is increasing in the near tenors (1- and 2-years out), as measured by MPD standard deviations. Both long and short interest rate MPDs suggest a general shift in market sentiment towards higher rates, yet skews in opposing directions suggest the possibility of a flatter yield curve. The dollar has strengthened dramatically against other major currencies, and market-implied uncertainty has increased, which can be seen in dramatically rising MPD standard deviations. The S&P 500 index retreated from all-time highs and investor uncertainty has increased, given the MPD standard deviation we measure from derived options on the index. A number of commodities (WTI crude, gold, silver, and lean hogs) have experienced large negative returns in combination with high MPD standard deviations and decreases in already negative skews, indicating a bias towards expectations of lower future prices.

Inflation

The positive reversal in market-based inflation expectations, as derived from caps and floors on the CPI, has leveled off and the median expectation for inflation over the next five years remains below 2% (see figure below).



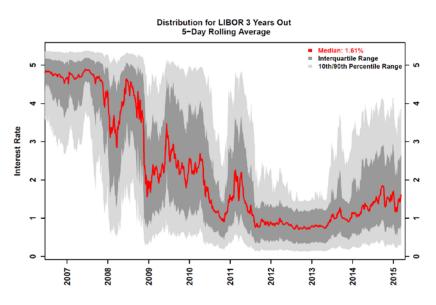
Additional detail:

- Despite recent gains concentrated in near tenors (1- and 2-years out), median expectations for inflation from market-based probability distributions (MPDs) remain low. They now sit at 1.16%, 1.52%, and 1.71% for the 1-, 2-, and 5-year tenors, respectively.
- Uncertainty regarding market-based CPI inflation expectations, as measured by both MPD standard deviation and interquartile range, remains at multi-year lows in the 5-year tenor; however, these measures continue to climb in the 1- and 2-year tenors, approaching their 4-year medians.
- MPD skew is nearing 4-year lows in the near tenors, implying a downward inflation expectation bias.

Interest Rates

Median short-term interest rate expectations, as derived from caps and floors on three month LIBOR, have increased considerably and MPD skew remains low but positive, suggesting shifts in market

expectations toward higher rates (see figure below). Long rates have also increased over the past two weeks with the MPD skew pointing decidedly towards lower rates, suggesting investor bias towards low rates in the longer end of the rate curve.



Additional detail:

- MPD standard deviations remain steady and high for the 10-year treasuries and, to a lesser extent, the three month LIBOR (3-year tenor), implying a high degree of investor uncertainty around future rates.
- MPD skews are uniformly positive and low for treasury prices, meaning that they are negative and high for treasury rates. MPD skews are positive but low for the three month LIBOR rate. This phenomenon of positive rate skews at the short end and negative skews at the long end indicates an increased market-implied likelihood of a flattening of the yield curve.

Banks and Insurance Companies

Over the past two weeks, the S&P 500 retreated -3.5% from its all-time high, and price changes in bank (17) and insurance (11) company stocks we follow generally moved in the same direction, though to a lesser degree. A number of banks had substantial negative returns over this period, particularly BCS (-6.6%), STT (-5.8%), and MS (-4.5%). CCAR results were not released until after market close on the 11th of March, so none of our data include the impacts of disclosure of results on bank equities. Insurance company equity returns were slightly higher on average than banks, and fewer firms had substantially negative returns.

Across the universe of monitored financial company equities, both MPD standard deviations and MPD skews increased. This indicates both an increase in market participant uncertainty and an expectation shift toward higher future returns. The average standard deviation derived from options on US bank equities increased 0.8%. The same average based on options on US insurance company equities increased 1.2%.

Additional details:

• MPD skew on PFG rose considerably over the past two weeks and is highly positive (see figure below). This coincides with better than average equity returns over the same period (-0.9%). This is indicative of higher market-based probabilities of positive future returns.

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)							
Progressive	0.33	0.17 0.42		higher 0.33 −3.54 ⊢			

Other Markets

- The S&P 500 price retreated from its all-time high. At the same time, the MPD standard deviations derived from both 6- and 12-month-out options on the index price have increased, suggesting an increase in investor uncertainty with regards to domestic equity markets.
- The iShares U.S. Real Estate Index continued its decline and the MPD standard deviation rose, suggesting increased market-implied uncertainty.
- The dollar continued its ascent against the suite of currencies we follow. This was particularly evident for the Euro-USD exchange rate, which fell by -7.9%. MPD standard deviations increased substantially over the last two weeks, signaling an increase in investor uncertainty (see chart below).

Indicator	Latest	2-Week Change	1-Year Trend with min/max points	Long-Term Range with median, IQR, and max/min
		Dollar-Euro Futu	ıres (3−Month Expiry)	
Spot	1.05	-7.9%	47	1.05 7 month low 1.05
MPD Std Dev	6.38%	1.9% 6.38	,	ast time higher 6.38 un2012 2.4 ⊢ 9.19 last 47 months
		Dollar-Pound Fut	ures (3-Month Expiry)	
Spot	149.24	-3.9%	47	149.24 7 month low 149.24 last 47 months
MPD Std Dev	6.03%	2.7% 6.03		ast time higher 6.03 leo2011 2.36 ⊢

- Both gold and silver have fallen to near multi-year lows. In addition, both commodities saw increases in MPD standard deviations and already negative skews fell further. These are all indicators of increasing tail risk in these commodities.
- Trading in options on WTI crude oil was light again, consistent with the seasonal activity we see in the data. Spot prices fell (-3.6%), MPD standard deviation remains high, and the MPD skew remains negative. This indicates both continued bias towards lower future prices of WTI crude and high levels of market-implied uncertainty.
- There was a large decline in lean hog spot prices (-7.6%) over the past two weeks. This was accompanied by an increase in the MPD standard deviation and a decrease in an already negative MPD skew, indicating growing levels of investor uncertainty and increasing tail risk.

Indicator	Latest	2-Week Change	1-Year Tre with min/max		Long–Term Range with median, IQR, and max/min		
Inflation (1–Year Expiry)							
Median	1.16%	0.36%		an14	1.16 −0.15 ⊢ − − − − − − − − − − − − − − − − − −		
MPD Std Dev	1.21%	0.069%	1.72 Apr17 0.83 Aug28	~~~~	1.21 0.83 ⊢ – – – – – – – – – – – – – 2.75 last 48 months		
MPD Skew	-0.49	-0.33	2.5 <u>Apr17</u> -0.59	Mar04 Dec2013	-0.49 -0.77 + - 1 2.5 last 48 months		
Market Prob of Less Than 1% Inflation	44.38%	-13%	85.35 Dec 11.88 Jun26		44.38 5.88 ⊢ □ ↓ Iast 48 months		
Market Prob of More Than 3% Inflation	5.21%	2.4%	18.71 Jun26 0.23 Dec	 17	5.21 0.23 +		
		Inflatio	on (2–Year Expiry)				
Median	1.52%	0.27%	2.2 Jun26 0.72 Jun26	n07	1.52 0.72 ⊢		
MPD Std Dev	1.17%	0.045%	1.18 0.88 Oct22	Mar04 Last time highe Aug2013	^{1.17} 0.88 ⊢ − − − − 1.69 last 47 months		
MPD Skew	-0.29	-0.26	0.22 J	Last time lower Mar04 Apr2011	-0.29 -0.4 + - 1 2.74 last 47 months		
Market Prob of Less Than 1% Inflation	33.09%	-7%	61.36 Ji 10.74 Jun26	an07	33,09 10.74 ⊢ □		
Market Prob of More Than 3% Inflation	8.81%	2.2%	21.41 Jun26 1.8 Dec	 17	8.81 1.8 +		
		Inflatio	on (5–Year Expiry)				
Median	1.71%	0.031%		an14	1.71 1.32 ⊢		
MPD Std Dev	1.01%	0.056%	1.17 Mar13 0.91 Jul24	~	1.01 0.91 ⊢ − − − − − 1 1.79 last 47 months		
MPD Skew	0.12	-0.079	0.34 -0.1 Jul31	an14	-0.12 +		
Market Prob of Less Than 1% Inflation	24.16%	-0.22%		an14	24,16 7.13 +		
Market Prob of More Than 3% Inflation	9.02%	1.2%	25.22 Jun26	n07	9.02 5.02 +		

Inflation MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Char	nge	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		5 Year	Treasury (3–Month Expiry)	
Spot	118.74	-0.58%	120.99 118.05	Jan 28 Sep 17	118.74 118.05 ⊢ – – – – – – – – – 120.99 last 6 months
MPD Std Dev	1.92%	-0.012%	2.3 1.41	Oct15 Sep24	1.92 1.41 н – – Страника 1.92 last 6 months
MPD Skew	0.07	0.	036 0.36 -0.5	Oct15 Sep10	-0.5 ⊢
Market Prob of -3% or More Decline	5.75%	-0.26%	8.74 2.44	Sep24	5.75 2.44 + 1 8.74 last 6 months
Volume	31758	-21%	377550 0	nul	31758 2054 ⊢
		10 Year	r Treasury	(3–Month Expiry)	
Spot	126.98	-0.87%	130.47 122.97	Jan28	126,98 122.97 ⊨
MPD Std Dev	2.96%	-0.045%	3.8 2.17	Oct15 	2.96 2.17 ⊢ – → – – – – – – 3.8 last 17 months
MPD Skew	0.1	-0.0012	0.31 -0.34	Jan07 May01	0.1 −0.75 ⊢ − − − − − − − − − − 0.31 last 17 months
Market Prob of –5% or More Decline	4.57%	-0.28%	8.48 1.62	Oct15 Jun19	4.57 1.62 ⊢ - 1
Volume	161539	-31%	1185098 0	t i htiutaimillaiminll.am	161539 5226 н - — — — — — — — — — — — — — — — 118509 last 17 months

Medium-to-Long Bond Price MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Change	1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		3 Month L	-IBOR (3–Year Expiry)	
Median	1.59%	0.22%	1.85 Sep18 1.08 Mar13	1.59 0.72 ⊢ 2.17 last 48 months
MPD Std Dev	1.43%	0.11%	2.17 1.21 Feb11 Oct16	Last time higher Jul2011 0.68
MPD Skew	0.85	-0.34	4.05 0.63	0.85 0.63 ⊬ – 7.06 last 48 months
Market Prob of Less Than 0.5% LIBOR	16.41%	-1.3%	22.24 9.79 Sep18	16.41 8.48 ⊢ – – – last 48 months
Market Prob of More Than 1% + Spot	59.33%	4.2%	67.85 Sep18 42.5 Mar13	59,33 7.61 ⊢ – – – – – – – – 70.55 last 48 months
		3 Month L	-IBOR (5–Year Expiry)	
Median	1.87%	0.39%	2.89 Apr03 1.26 Jan28	1.87 0.94 ⊨
MPD Std Dev	1.88%	-0.0046%	2.53 Jun05 1.79 Jan28	1.88 1.5 ⊢ – – – – – – – – – – 2.99 last 46 months
MPD Skew	0.9	-0.17	2.13 Nov27 0.43 Sep25	0.9 0.43 н
Market Prob of Less Than 1% LIBOR	30.8%	-4%	40.22 Jan28 17.66 Apr03	30.8 11.33 ⊢ – – – – – – – – – – – 53.02 last 46 months
Market Prob of More Than 2% + Spot	41.78%	4.2%	60.53 Nov12 31.59 Jan21	41.78 10.68 ⊢ – – – – – – – – – – – 67.69 last 46 months

Short Interest Rates MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min				
	S&P 500 (6–Month Expiry)								
Spot	2040.24	-3.5%	2113.86 1862.49	Feb25 Oct15	48 month high _{1131.42} +				
MPD Std Dev	12.18%	1%	14.77 8.87	Jui03	12.18 8.87 F - 12.18 last 48 months				
MPD Skew	-1.35	0.18	-1.02 -1.54	May08 Jan21	-1.35 -1.54 +				
Market Prob of –20% or More Decline	7.22%	1.3%	10.32 3.65	Oct15	3.65 ⊢				
Volume	44979	2.8%	203412 0	า แลมไม่มีมีและสมไปสาวสามและ	44979 13428 +				
	S&P 500 (12–Month Expiry)								
Spot	2040.24	-3.5%	2113.86 1862.49	Feb25 Oct15	48 month high _{1131.42} +				
MPD Std Dev	17.15%	1.1%	20.23 15.02		17.15 10.5 +				
MPD Skew	-1.38	0.11	-1.13 -1.57	May29	-1.38 -1.57 +				
Market Prob of –20% or More Decline	11.68%	1.2%	16.05 10.07	Oct15 	11.68 5.51 +				
Volume	57889	-15%	90557 0		57889 3174 н - — – – – – – – – – – – – 161766 last 48 months				
		iShares US Real	Estate	e Index (3–Month Exp	biry)				
Spot	76.83	-3%	82.44 67.4	Jan28 Mar20	76,83 50.57 + 82.44 last 48 months				
MPD Std Dev	8.72%	0.96%	9.69 5.22		4.77 ⊢				
MPD Skew	-0.93	0.15	-0.35 -1.55	Jun05	-2.09 +				
Market Prob of –10% or More Decline	12.93%	2.7%	13.97 4.45		12.93 3.43 ⊢ – – – – – – – – – – 25.19 last 48 months				
Volume	48649	860%	122800 0	า	48649 62 F				

Equity Index MPD Statistics as of March 11, 2015

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	1.05	-7.9%	1.39 1.05	May01	47 month low 1.05 1.05 1.48 last 47 months		
MPD Std Dev	6.38%	1.9%	6.38 2.4	Julo3 N. 12	Last time higher Jun2012 2.4 +		
MPD Skew	-0.27	-0.092	0.16 -0.52	Mar04	Last time lower -0.85 +		
Market Prob of –10% or More Decline	6.61%	4.8%	6.61 0.02	Jui03	Last time higher 6.61 Jun2012 0.02 +		
Volume	56852	7.4%	80713 0		2039 ⊨ –		
Dollar–Pound Futures (3–Month Expiry)							
Spot	149.24	-3.9%	171.39 149.24	Jul03 Mar11	149.24 47 month low 149.24 Iast 47 months		
MPD Std Dev	6.03%	2.7%	6.03 2.36	Aug14	Last time higher Dec2011 2.36 +		
MPD Skew	-0.63	-0.58	0.1 -0.92	Aug28	-0.63 -0.92 +		
Market Prob of –10% or More Decline	6.39%	6.1%	6.39 0.01	Mar11 Aug14	Last time higher 6.39 Oct2011 0.01 H 8.51 last 47 months		
Volume	13575	-36%	27070 0	แปเป็นไปแบปนแปปน	13 <u>5</u> 75 104 ⊢ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ ▲ 		
		Dollar-Yen I	Future	s (3–Month Expiry)			
Spot	82.39	-2.1%	98.79 82.39	Jul10 Mar11	82.39 47 month low 82.39 F □ 130.66 last 47 months		
MPD Std Dev	5.24%	1.1%	6.29 2.76	Juil03	2.76 ⊢ – – – – – – – – – 8.02 last 47 months		
MPD Skew	-0.12	-0.25	0.29 -0.19		-0.12 -0.44 +		
Market Prob of –10% or More Decline	3.52%	2.6%	5.99 0.02		3.52 0.02 ⊢		
Volume	9088	-8.9%	39827 0	าาอไออสมีเมืองสมไปและสมไหล	306 ⊢		

Exchange Rate MPD Statistics as of March 11, 2015

Indicator	Latest	2-Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min			
	Gold (6–Month Expiry)							
Spot	1152.44	-4.1%	1340.6 1145.55	Julio Novo5	1152.44 1145.55 +			
MPD Std Dev	12.97%	0.58%	13.85 9.39	Julio Jan21	9.39 ⊢ - – – – – – – – – – – 23.3 last 48 months			
MPD Skew	-0.32	-0.34	0.02 -0.42	Aug28 Nov12	-0.32 -0.71 +			
Market Prob of –20% or More Decline	6.99%	0.88%	7.8 2.39	Jan21 Sep04	6.99 2.39 ⊢			
Volume	9357	2400%	31121 0		9357 378 μμμ – – – – – – – – – – – – 93550 last 48 months			
		Silve	r (6–M	onth Expiry)				
Spot	15.44	-6.3%	21.57 15.44	Julio Marin	15,44 48 month low 15.44 - 15.44 last 48 months			
MPD Std Dev	21.8%	0.067%	22.59 13.16	Jan21 Sep10	13.16 ⊢ – – – – – – – – – – – – 40.41 last 48 months			
MPD Skew	-0.28	-0.12	0.15 -0.57	Jul10 Octo1	-0.63 +			
Market Prob of –20% or More Decline	18.16%	0.74%	19.35 6.54	Jan21 Aug28	18,16 6.54 ⊢ – – – – – – – – – – – – – – – 32.41 last 48 months			
Volume	81	-95%	9415 0		81 81			
		West Texas Interm	ediate	e Crude (6–Month Ex	piry)			
Spot	54.9	-3.6%	102.41 48.55	Jun19 Jan28	54.9 48.55 F			
MPD Std Dev	28.67%	-0.81%	32.63 10.25	Jul 24	28,67 10.25 ⊢ 34 last 48 months			
MPD Skew	-0.66	0.043	-0.1 -0.76	Jun 19 Mar04	-0,66 Last time lower -0.81 + 0 Feb2013 last 48 months			
Market Prob of –20% or More Decline	23.03%	0.5%	26.53 3.65	Jui24	48 month high 3.65 + 126.53			
Volume	14854	270%	99667 0		14854 165 1485 last 48 months			

Metal and Energy Commodity MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Change		1-Year Trend with min/max points	Long–Term Range with median, IQR, and max/min				
	Corn (6–Month Expiry)								
Spot	406.19	3.6%	513.25 334.65	May08 Oct01	406.19 334.65 ⊢ – – – – – – – – – 823.75 last 48 months				
MPD Std Dev	20.53%	2.6%	21.43 14.45	Apr03	20.53 12.43 +				
MPD Skew	0.35	0.044	0.37 -0.19	Mar04 Sep24	48 month high _0.19 F				
Market Prob of –20% or More Decline	19.2%	5.9%	19.2 8.57	Mar11 Aug14	Last time higher May2013 5.73 H				
Volume	30379	-23%	216660 0		30379 6059				
	Soybeans (6–Month Expiry)								
Spot	980.48	-3.2%	1298.25 934.57	Apr17 Oct01	980.48 934.57 +				
MPD Std Dev	15.02%	0.56%	17.52 12.54	Oct29 Sep17	10.93 н – – – Ш – – – – – – – – – 22.65 last 48 months				
MPD Skew	0.03	0.098	0.17 -0.5	Apr03	0.03 −0.5 ⊢ − − − − − − − − − − − 0.51 last 48 months				
Market Prob of –20% or More Decline	10.24%	1.4%	12.79 6.65	Jan07	4.07 ⊢ – – – – – – – – – – – – – – – – – –				
Volume	705	-98%	238213 0		705 496 – – – – – – – – – – – – 326132 last 48 months				
		Whea	at (6–N	Ionth Expiry)					
Spot	511.21	2.2%	743.75 492.25	May08 Sep24	511.21 492.25 + 930 last 48 months				
MPD Std Dev	20.76%	2.7%	21.56 14.22	Mar20 Juli03	20.76 12.95 н – – Страния 28.19 last 48 months				
MPD Skew	0.35	0.048	0.35 0.03	Jun12	Last time higher 0.35 Oct2013 0.01 H				
Market Prob of –20% or More Decline	19.36%	5.6%	19.59 8.35	Mar20 Juli03	19.36 5.67 н – – – – – – – – – – – 27.31 last 48 months				
Volume	7133	-77%	46977 0		7133 179 ⊢ 1				

Agricultural Crop Commodity MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Change		1–Year Trend with min/max points		Long–Term Range with median, IQR, and max/min
		Cattle	(6–N	onth Expiry)		
Spot	144.68	3.7%	170.32 132.82	Apr17		144.68 129.05 + - 170.32 last 20 months
MPD Std Dev	10.06%	-0.82%	12.2 4.23	Jun05		10.06 3.6 ⊢
MPD Skew	-0.42	-0.069	-0.17 -0.72	May08		-0.94 +
Market Prob of –5% or More Decline	28.19%	-1.9%	31.3 11.44	Apr24		28.19 8.46 +
Volume	6614	41%	33850 0			6614 1263 +
		Hogs	(6–M	onth Expiry)		
Spot	78.01	-7.6%	94.48 78.01	Nov19 Mar11	5 month low	78.01 78.01 +
MPD Std Dev	17.56%	1.4%	17.56 13.88	Mar11 Nov26	5 month high	17.56 13.88 ⊢ – – – – – – – – – 17.56 last 5 months
MPD Skew	-0.22	-0.095	0.17 -0.37	Jan21 Oct15		-0.22 -0.37 F
Market Prob of –5% or More Decline	14.24%	3.1%	14.24 8.05	Mar11 Nov26	5 month high	14.24 8.05 + 14.24 last 5 months
Volume	2509	-40%	6204 0	ռումիս		2509 53 +

Agricultural Livestock Commodity MPD Statistics as of March 11, 2015

Indicator	Latest	2–Week Change		1-Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		MPD Standard	Devia	tion (3–Month Expiry	/)
American Express	10.67%	0.59%	13.33 7.82	Oct15 Aug28	10,67 7.82 + 10,67 last 48 months
Bank of America	12.71%	1.5%	15.89 9.71	Oct15	12.71 9.71 ⊢ 1
BB&T	9.38%	0.57%	12.4 7.29	Oct15	9.38 7.29 + 1
Barclays	15.99%	0.95%	19.56 10.93	Jan21	48 month low 10.93 + 15.99 last 48 months
Bank of NY Mellon	10.97%	1.2%	13.49 7.88	Jul24	10.97 7.88 +
Citigroup	12.45%	1.6%	15.52 8.52	Jui24	12.45 8.52 + last 48 months
Capital One	9.93%	0.3%	12.94 7.72	Jui24	9.93 7.72 + 1
Credit Suisse	15.04%	0.7%	16 9.84	Jan21 May01	9.84 + - 15.04 9.84 + - 12
Deutsche Bank	13.76%	0.51%	17.44 11.65	Jan14 May08	13.76 11.33 ⊢ []
Fifth Third	11.3%	1.4%	15.13 8.21	Jun 19 	8.21 + 11.3
Goldman Sachs	10.51%	1.6%	13.57 8.23	Oct15	10.51 8.23 + 10.51 last 48 months
JP Morgan	10.93%	1.1%	12.95 7.41	Jul24	10.93 7.41 н ф
Keycorp	12.09%	-0.6%	14.67 8.98	Jan07	12.09 8.98 +
Morgan Stanley	12.47%	1.6%	17.04 9.7	Oct15	12.47 9.7 + 1.77 last 48 months
PNC Financial	9.3%	1%	11.22 7.45	Jan14 Jan14 Sep10	9.3 7.45 + 1
Regions Financial	13.2%	-0.86%	15.14 10.57	Oct29 Sep10	13.2 10.57 + 10.57
SunTrust	10.41%	1.2%	14.6 7.82	Oct15	10.41 7.82 + 1 34.43 last 48 months
State Street	11.45%	0.68%	13.7 8.81	Oct15 	11.45 8.81 F
UBS	13.36%		19.02 8.7	Mar06 Sep24	13.36 8.7 ⊢ – – – – – – – – – – – – – – – 39.87 last 46 months
US Bancorp	9.23%	0.54%	13.1 6.58		9.23 6.58 + 1
Wells Fargo	9.5%	0.97%	12.75 7.16	Oct15 Jun05	9.5 7.16 ⊢ — – – – – – – – – – – – 28.37 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 Ske	ew (3-	-Month Expiry)	
American Express	-0.45	-0.078	-0.21 -0.74	Jul31 Oct15	-0.45 -1.32 +
Bank of America	-0.27	0.16	-0.02 -0.7	Julio Octi5	-1.17 +
BB&T	-0.57	0.51	-0.22 -1.3	Dec10	-0.57 -1.54 +
Barclays	-0.52	2	0.56 -2.51	Aug07 Feb25	-0.52 48 month low -2.51 +
Bank of NY Mellon	-0.39	0.32	0.32 -1.09		-0.39 -1.56 +
Citigroup	-0.54	0.21	-0.29 -0.89	Juli Octis	-1.23 +
Capital One	-0.51	0.18	-0.16 -0.89		-0.51 -1.38 +
Credit Suisse	-0.75	0.43	0.89 -2	Jan07	-2.07 +
Deutsche Bank	-0.94	-0.38	0.35 -0.98	Jup26 Mar04	-0.94 Last time lower -1.31 +
Fifth Third	-0.22	0.87	2.19 -1.49	Feb04	-1.49 + - [1.49
Goldman Sachs	-0.66	0.059	-0.36 -0.97	Jun05 Oct15	-1.38 +
JP Morgan	-0.74	0.021	-0.33 -0.96	Jul17 Dec17	-1.44 н
Keycorp	-0.62	0.87	0.28 -1.49	May15 Feb25	Last time lower −2.24 ⊢ − − − − − − − − − − − − − − − − − −
Morgan Stanley	-0.63	0.037	-0.26 -0.87	Aug07	-1.2 +
PNC Financial	-0.79	0.11	-0.39 -1.29	Sep04 Sep10	-1.51 +
Regions Financial	-0.35	1.2	0.68 -1.54	Oct15 Feb25	-0.35 Last time lower −1.94 ⊢ − − − − □ □ − − − − − − 0.68 Dec2012 last 47 months
SunTrust	-0.83	0.11	-0.26 -1.05	Dec17	-0.83 -1.16 +
State Street	-0.7	0.13	-0.13 -2.31	Aug14 Dec24	-2.31 ⊢
UBS	-0.04		0.91 -1.72	Dec31 Nov26	Last time higher Oct2012 −3.36 ⊢ − − − − − − − − − − − − − − − − − −
US Bancorp	-0.68	0.22	-0.2 -1.3	Dec17 	-0.68 -1.45 +
Wells Fargo	-0.92	-0.25	-0.48 -1.24	May08 Jan07	-1.73 +

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 -20	% or	More Decline (3–Mo	nth Expiry	()
American Express	5.15%	1.6%	7.79 1.53	Oct15 Aug28		5.15 1.53 ⊢
Bank of America	6.91%	1.8%	10.91 3.13	Oct15		6.91 3.13 +
BB&T	3.51%	0.46%	8.19 1.68	Oct15		3.51 1.68 H – – – – – – – – – – – – – – – – – 34.9 last 48 months
Barclays	12.74%	5.4%	18.72 2.33	Nov05	48 month low	2.33 ⊢ – – 12.74 12.74 – – – – – – – – – 30.94 last 48 months
Bank of NY Mellon	5.19%	0.89%	8.35 1.31	Oct15 Jan28		5.19 1.31 + - 131
Citigroup	6.56%	1.6%	9.93 1.93	Oct15		6.56 1.93 ⊢
Capital One	4.24%	0.35%	7.94 1.64			4.24 1.64 +
Credit Suisse	12.42%	3.1%	12.84 2.87	May15 Nov26		12.42 2.87 ⊢ 28.61 last 48 months
Deutsche Bank	8.06%	1.7%	14.97 5.74	Jan07 Aug28		8.06 4.99 ⊢
Fifth Third	5.12%	0.88%	11.8 0.99	Oct29 May01		5.12 0.99 + - last 48 months
Goldman Sachs	4.57%	1.8%	8.27 1.79	Oct15		4.57 1.79 ⊢
JP Morgan	5.45%	1.4%	6.95 1.31	Oct15 Jul24		5.45 1.31 ⊢
Keycorp	6.67%	0.71%	9.67 1.92	Jan14		6.67 1.92 ⊢ – ☐ – – – – – – – – – – – – – – – 27.26 last 48 months
Morgan Stanley	7.36%	2.9%	13.03 3.21	Oct15		7.36 3.21 +
PNC Financial	3.35%	0.75%	6.3 1.43			3.35 1.43 ⊢ ↓ 17.91 last 48 months
Regions Financial	6.01%	-0.75%	14.66 4.26	Oct29 		6.01 3.64 +
SunTrust	4.87%	1.7%	10.15 1.73	Oct15 May08		4.87 1.73 ⊢
State Street	5.58%	0.34%	9.04 2.26	Sep10		5.58 2.26 + - 19.69 last 48 months
UBS	7.28%		18.15 1.53	Mar06 Dec31	46 month low	7.28 1.53 +
US Bancorp	3.3%	0.38%	6.91 0.74	Oct15 		0.74 ⊢ □
Wells Fargo	3.89%	1.5%	7.53 1.3	Oct15 Jun05		3.89 1.3 ⊢

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
		Volume	e (3–N	Nonth Expiry)	
American Express	7920	-70%	28004 0	6. 10	623 ⊨ 128004 last 48 months
Bank of America	86998	-35%	133777 0	า . เป็นแป้ไปเป็นไปประกอบไปไปป	86998 7419 ⊢ 10
BB&T	2073	12%	6490 0	r Ilaaaald a.c.coc.dabuu.c	2073 190
Barclays	1550	380%	11011 0		1550 13 ↓□ 1 15208 last 48 months
Bank of NY Mellon	6402	270%	15678 0		59 μ □ – – – – – – – – – – – – – – – – – – –
Citigroup	17151	-22%	140439 0	r i tataantallitaaantaantii III hara	17151 1104 r Lever
Capital One	625	83%	5543 0	tullaamahaaaaltutahallata	625 164 F
Credit Suisse	250	-0.4%	15145 0		250 0 International data and the second seco
Deutsche Bank	1200	-60%	25112 0	tt.manama.althataatma.a.	1200 76 ہ لیہ ا 29575 last 48 months
Fifth Third	1880	-59%	6299 0		1880 28 Hund
Goldman Sachs	2672	-53%	15721 0	. Mullocancochildacacataaca	2672 296 +
JP Morgan	15939	19%	79587 0	r hamaaldaaaattaan	15939 943 ⊢ 119246 last 48 months
Keycorp	639	21%	3300 0	l i lliaintathann flaadstallana	639 44 4
Morgan Stanley	7056	-48%	48955 0	had some and little some and a	7056 327 F
PNC Financial	1102	-34%	4810 0	ti haumiliaanuuluhili	1102 83 F
Regions Financial	876	-74%	4635 0	l utililiaanthalkaan alullo	876 20 ⊢ — – – – – – – – – – – – – – – – – – –
SunTrust	4808	470%	4808 0		4808 61 ⊢IIII
State Street	563	140%	5339 0		42 + 1
UBS	124		2034 0	. []]] . tunatilitataana aataa	6 H + 6502 last 46 months
US Bancorp	1296	310%	9006 0	r tatalaabtatatadddllaaa	1296 172 H
Wells Fargo	4214	-53%	62697 0	แลกกระกระสมไปไปกระเป็นแกะ	4214 950 ┣━━

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	8.28%	0.87%	12.28 7.29	Oct15 Aug21	8.28 7.29 + Last 48 months		
AIG	10.53%	1.3%	15.15 8.7	Oct15	10.53 8.7 F		
Allstate	8.29%	1.4%	10.19 5.83	Oct15 Aug28	8.29 5.83 F – 1 – – – – – – – – – 22.82 last 48 months		
Ameriprise	11.47%	0.29%	15.19 8.98	Oct15 Oct29	11.47 8.98 F - 1 28.12 last 48 months		
Chubb	7.66%	1.2%	9.52 5.96	Oct15	7.66 5.96 ⊢		
Hartford Financial	10.26%	-0.067%	13.93 8.68	Oct15	10.26 8.68 F 1 34.59 last 48 months		
Lincoln National	13.67%	2.2%	16.63 10.28	Oct15 Aug28	13.67 10.28 н		
Met Life	12.15%	1.5%	16.24 10.08		12,15 10.08 F last 48 months		
Principal Financial	12.53%	2.3%	17.34 8.31		12.53 8.02 н - Цатана 14.89 last 48 months		
Progressive	8.81%	0.69%	11.32 M 7.22	ar20 May01	8.81 6.2 µ - 1 24.84 last 47 months		
Prudential	12.85%	1.6%	16.3 10.11		12.85 10.11 ⊢ — – – – – – – – – – – – – 30.06 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	-0.72	0.18	0.32 1.08	Jun 19 	-1.24 +		
AIG	-0.54	0.2	•0.23 •0.84	Dec31	-0.54 Last time lower -1.23 +		
Allstate	-0.52	0 14	-0.31 -1.5	Juli31 Nov12	$-1.5 \mu =$		
Ameriprise	-0.66	0.039	0.11 1.44	Dec31 	-4.03 		
Chubb	-0.76	-0.26	0.21 1.15	Aug14 	-1.56 µ 		
Hartford Financial	-0.99	0.27	-0.2	Jul17 Oct29	-0.99 -1.59 μ		
Lincoln National	-0.88	-0.016	0.15 ·1.02	May01 Nov19	-0.88 -1.59 ⊢		
Met Life	-0.6	0.024	•0.35 •0.82		-1.52 -0.23 last 48 months		
Principal Financial	-0.6	0.16	0.21 -2.87	Oct15 Aug21	-2.95 ⊢		
Progressive	0.33	0.17	0.42 — -2.75	Mar04 Nov12	Last time higher 0.33 Jul2011 -3.54 +		
Prudential	-0.59	0 14	•0.36 •0.82	May01 Nov05	-0.59 -1.45 		

Indicator	Latest	2–Week Change		1–Year Trend with min/max points	Long–Term Range with median, IQR, and max/min
	Ma	rket Probability of -2	0% or	More Decline (3–Mor	nth Expiry)
Aflac	2.21%	0.45%	8.55 1.39		2.21 1.39 + Last 48 months
AIG	4.2%	1.2%	11.59 2.44	Oct15	4.2 2.44 +
Allstate	2.08%	0.9%	4.67 0.56	Oct15 May22	2.08 0.56 +
Ameriprise	6.14%	0.25%	9.67 2.4	Oct29	6.14 2.4 F - 14 last 48 months
Chubb	1.99%	1.4%	3.86 0.55	Oct15 Feb25	48 month low 0.55 F 1.99 1.99
Hartford Financial	4.36%	-0.42%	7.78 2.19	Oct15 Juli31	4.36 2.19 F
Lincoln National	9.64%	4.2%	11.23 3.85	Oct15 Aug28	9.64 3.85 ⊢ - □
Met Life	6.38%	1.1%	11.04 3.79	Juli24	6.38 3.79 ⊢ – – – – – – – – – – – 20.81 last 48 months
Principal Financial	8.36%	4%	17.08 0.43	Oct29	8.36 0.43 +
Progressive	1.61%	0.57%	8.74 0.28	May01	1.61 0 ⊢ 101
Prudential	8.09%	2.6%	12.07 3.99		8.09 3.99 F

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	3089	-76%	13324 0	1	3089 405 ⊢⊡			
AIG	2808	-96%	69392 0	rthutton.t.hnd.to	2808 432 H			
Allstate	63	-95%	2913 0	า แปนและปกเองปกโละสองป.	63 63 63 63 Iast 48 months			
Ameriprise	162	300%	1071 0		162 5 ⊢ III			
Chubb	73	-99%	9027 0		73 11 11			
Hartford Financial	1151	190%	13441 0]. th	1151 65 4 🗖			
Lincoln National	510	-66%	8403 0		510 51 H			
Met Life	11021	220%	29248 0	l.damlc.mdullaa	11021 319 الله ا 161416 last 48 months			
Principal Financial	70	-87%	545 0	ululuma sata kandana tantada	70 2 1			
Progressive	9	-10%	474 0	ternandialasiantati a	0 1			
Prudential	2109	16%	13225 0	daanaladdi naalitataa.maha	2109 222 F L			