

Nikan Firoozye <firoozye@gmail.com>

FW: reports

Nick.Firoozye@nomura.com <Nick.Firoozye@nomura.com>

5 February 2016 at 16:45

To: firoozye@gmail.com

From: Zheng, Xiaowei (FI Research/UK) Sent: 05 February 2016 11:52

To: Firoozye, Nick (FI Research/UK)

Subject: reports

Hi Nick

Please find attached two updated reports.

- **CMS Spread Snapshot**
- Forward Vol Snapshot: Combined different expiries into the same table

The color in the headers should now be fixed as well.

Please take a look and let me know your thoughts.

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----- Forwarded message ------

From: <gmquantstrategiesemea@nomura.com>

To: <Xiaowei.Zheng@nomura.com>

Cc: Bcc:

Date: Fri, 5 Feb 2016 11:48:32 +0000

Subject: TARDIS CMS Spread Snapshot (05-Feb-16)

TARDIS CMS Spread Snapshot

05-Feb-16

This report aims to provide an overview of CMS spread option trades. For further questions, please contact QuantStrategies@nomura.com.

USD

CMS Spread Option

	CMS	Spread	d (bps)																					
	Curre	ent Lev	/el						1-mo	nth Ch	ange						1-yea	Perce	entile					
	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
Spot	41.5	93.8	141.1	28.0	80.3	52.3	99.6	47.3	-12.9	-5.9	-1.2	-3.3	3.7	7.0	11.7	4.7	0%	1%	3%	0%	9%	44%	53%	81%
3m	42.8 94.0 140.1 28.4 79.6 51.2 97.3 46.0 -7.1 1.5 7.0 -0.4 8.2 8.6 14.2 5.5															5.5	0%	5%	13%	2%	21%	49%	67%	87%
6m	43.7	43.7 93.6 138.2 28.5 78.4 49.9 94.5 44.6 -1.6 8.2 14.3 2.0 11.8 9.8 15.9 6.1															1%	15%	36%	10%	40%	60%	75%	88%
1 y	43.8	43.7 93.6 138.2 28.5 78.4 49.9 94.5 44.6 -1.6 8.2 14.3 2.0 11.8 9.8 15.9 6.1 43.8 90.5 131.7 27.9 74.6 46.7 87.9 41.2 6.0 16.9 23.3 5.1 15.9 10.8 17.2 6.4															19%	45%	59%	32%	57%	76%	87%	91%
2 y	40.0	79.4	114.6	25.6	65.0	39.4	74.6	35.2	10.9	20.3	26.0	7.3	16.6	9.3	15.0	5.7	57%	74%	87%	68%	83%	95%	98%	98%
5y	25.7	47.5	71.2	16.0	37.8	21.8	45.5	23.7	5.7	6.4	7.7	3.4	4.1	0.7	2.0	1.3	100%	100%	100%	100%	100%	97%	100%	99%
	PV of	CMS	Spread	Opti	on (cts)																		
	Curre	ent Lev	/el						1-mo	nth Ch	ange						1-yea	r Perce	entile					

	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	7.3	11.2	13.7	4.9	8.7	5.7	9.8	4.4	0.0	8.0	1.0	0.0	0.3	0.4	0.7	0.7	29%	45%	44%	28%	26%	61%	25%	54%
6m	10.2	15.5	18.9	6.5	12.7	8.1	13.5	6.7	0.2	0.9	1.2	0.1	0.3	0.5	0.9	1.0	18%	33%	35%	15%	15%	45%	26%	54%
1 y	14.5	20.9	26.3	8.9	18.6	12.2	19.1	10.4	-0.0	0.7	1.1	-0.2	0.1	0.6	1.0	0.9	6%	12%	16%	5%	10%	29%	31%	42%
2 y	19.2	28.8	34.2	10.9	26.2	14.6	25.7	14.5	0.7	1.3	1.0	-0.4	0.1	0.9	1.5	0.7	16%	23%	13%	6%	10%	21%	32%	27%
5 y	24.8	37.3	45.8	14.1	39.7	18.9	36.5	23.9	0.6	1.3	-0.1	0.1	0.6	1.0	1.9	1.3	30%	22%	8%	26%	23%	21%	71%	89%
	6-mo	nth Ca	rry of <i>F</i>	ATM C	CMS Sp	oread C	Option	(cts)																
	Curr	ent Lev	⁄el						1-mo	nth Ch	ange						1-yea	r Perce	ntile					
Caps	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	-4.3	-3.8	-4.1	-2.1	-3.9	-2.2	-2.1	-1.8	-3.9	-4.7	-5.1	-1.5	-2.3	-0.7	-0.9	-0.1	0%	0%	0%	0%	0%	0%	0%	5%
2 y	-0.7	-0.6	1.1	-0.1	0.4	2.0	8.0	-0.3	-1.4	-0.5	0.7	-0.1	0.5	0.6	8.0	0.3	0%	1%	11%	12%	12%	93%	24%	41%
5 y	1.4	2.5	2.3	0.4	1.5	8.0	8.0	-0.4	0.6	1.3	1.7	0.2	0.9	0.6	8.0	0.2	59%	91%	92%	43%	83%	100%	98%	90%
Floors	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	-4.2	-6.9	-10.5	-2.7	-7.6	-5.4	-8.7	-5.2	3.7	3.9	3.9	1.7	1.9	0.3	0.4	0.2	100%	100%	100%	100%	100%	100%	100%	92%
2 y	-2.9	-6.5	-7.9	-1.3	-4.5	-1.7	-5.9	-3.3	-0.5	-0.8	-0.2	0.3	-0.2	-0.6	-1.0	-0.3	84%	84%	95%	98%	91%	79%	55%	59%
5v	-1.1	-2.3	-4.0	-0.8	-2.1	-1.5	-3.0	-1.9	-0.7	-1.1	-1.4	-0.4	-0.9	-0.6	-1.0	-0.5	7%	14%	4%	11%	0%	79%	0%	0%

Zero-Cost CMS 1x2 Cap/Floor Ratios

	Strike	e Sprea	ads (b	os)																				
	Curr	ent Lev	vel						1-mo	nth Ch	ange						1-yea	r Perce	entile					
Caps	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	9.4	15.1	18.5	5.9	10.7	7.0	13.3	5.7	-0.3	0.9	8.0	-0.2	0.3	0.5	1.0	0.9	23%	50%	67%	24%	25%	63%	37%	54%
6m	13.4	21.3	25.7	7.7	15.8	10.2	18.3	8.7	-0.3	1.0	0.6	-0.5	0.4	8.0	1.4	1.3	4%	39%	60%	6%	15%	52%	35%	54%
1 y	19.1	29.0	36.0	10.5	23.2	15.2	24.8	13.5	-0.6	0.6	0.0	-0.7	0.0	8.0	1.3	1.1	3%	16%	40%	4%	10%	36%	66%	42%
2 y	25.6	39.9	45.5	11.9	31.5	17.9	32.6	18.9	0.7	1.5	0.0	-1.4	-0.0	0.9	1.5	8.0	26%	42%	32%	0%	9%	21%	68%	30%
5у	33.6	47.1	59.9	15.9	47.3	23.1	43.8	31.6	0.7	1.6	-0.5	-0.2	0.4	0.9	1.2	0.9	81%	56%	50%	23%	13%	20%	77%	69%
Floors	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	9.0	14.0	16.5	6.4	12.0	7.8	12.3	5.7	0.2	1.1	1.4	0.3	0.5	0.5	8.0	0.9	29%	40%	29%	27%	25%	61%	25%	54%
6m	12.6	19.2	22.8	8.9	17.5	11.2	17.1	8.9	0.4	1.2	1.8	0.6	0.4	0.7	1.1	1.3	25%	34%	29%	22%	14%	40%	26%	54%
1 y	17.7	25.9	31.6	12.3	25.8	16.8	25.6	14.0	-0.2	0.9	1.7	0.0	-0.0	8.0	1.3	1.2	4%	23%	17%	9%	9%	28%	27%	41%
2 y	23.7	37.8	43.4	16.5	38.8	20.6	35.4	19.4	0.1	1.3	0.7	0.5	-0.5	1.1	2.0	0.9	9%	28%	11%	19%	5%	21%	33%	27%
5у	32.5	58.4	67.0	23.8	65.8	29.2	58.0	33.8	-1.7	-0.9	-3.0	0.2	-1.9	0.5	1.5	1.0	0%	2%	0%	17%	1%	15%	44%	40%
	6-mo	nth Ca	rry of	Zero-0	Cost 1	k2 CMS	Cap/F	loor Rat	ios (c	ts)														
	Curr	ent Lev	vel						1-mo	nth Ch	ange						1-yea	r Perce	entile					
Caps	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	2.9	3.8	5.3	1.7	4.1	2.8	3.5	2.6	-0.4	-0.7	-0.8	0.1	-0.4	-0.1	-0.2	-0.1	2%	0%	7%	89%	18%	2%	63%	22%
2 y	1.4	3.1	1.9	-0.1	1.5	-0.3	1.8	1.2	8.0	0.5	-0.2	-0.3	-0.1	-0.1	-0.0	-0.0	100%	99%	69%	45%	71%	4%	89%	32%
5у	-0.1	-0.2	0.5	0.1	-0.0	0.2	0.6	8.0	-0.0	-0.1	-0.2	0.1	-0.1	-0.1	-0.2	-0.0	79%	20%	44%	84%	46%	4%	19%	52%

Floors	2 s 5 s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	2.8	3.4	4.6	1.6	3.3	2.1	3.4	1.8	0.4	0.6	1.0	-0.1	0.4	0.2	0.3	0.1	88%	96%	100%	42%	100%	100%	93%	83%
2у	1.4	2.7	3.1	1.0	2.0	0.1	1.9	1.2	0.5	0.3	-0.1	0.2	-0.2	0.0	0.1	0.0	83%	82%	57%	86%	12%	20%	73%	26%
5у	0.2	0.4	1.6	0.3	0.7	0.5	1.4	1.1	0.0	-0.1	-0.0	-0.0	-0.1	0.0	0.1	0.2	78%	0%	49%	34%	33%	14%	97%	100%

<u>EUR</u>

CMS Spread Option

	CMS	Spread	d (bps)																					
	Curr	ent Lev	/el						1-mo	nth Ch	ange						1-yea	ır Perc	entile					
	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
Spot	23.7	82.2	139.1	19.5	78.0	58.5	115.4	56.9	-10.6	-16.0	-20.8	-6.4	-11.8	-5.4	-10.2	-4.8	25%	29%	34%	25%	31%	35%	47%	63%
3m	28.7	88.3	144.0	21.9	81.5	59.6	115.3	55.7	-9.4	-14.0	-17.7	-5.4	-10.1	-4.6	-8.2	-3.6	26%	32%	36%	27%	34%	36%	50%	66%
6m	32.5	92.7	147.0	23.7	83.9	60.2	114.5	54.3	-8.7	-12.7	-15.6	-4.8	-8.8	-4.1	-6.9	-2.9	27%	33%	39%	29%	34%	39%	54%	70%
1 y	37.8	98.0	148.3	26.3	86.5	60.3	110.5	50.2	-7.0	-10.4	-12.2	-3.7	-7.0	-3.4	-5.2	-1.8	31%	34%	45%	31%	37%	44%	61%	73%
2 y	42.8	99.1	140.2	28.7	85.0	56.4	97.4	41.1	-3.3	-6.0	-5.5	-1.4	-4.2	-2.8	-2.2	0.6	33%	39%	55%	34%	45%	56%	71%	79%
5 y	37.4	70.7	85.5	23.1	56.3	33.3	48.1	14.8	-0.8	-5.3	-0.8	-0.7	-5.2	-4.5	0.0	4.5	73%	70%	81%	74%	70%	65%	77%	72%
	PV of	f CMS	Spread	l Opti	on (cts	s)																		
	Curr	ent Lev	/el						1-mo	nth Ch	ange						1-yea	ır Perc	entile					
	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	6.2	10.7	14.3	4.0	9.8	5.7	10.4	6.1	0.4	0.9	1.6	-0.1	0.7	0.1	0.9	0.9	83%	54%	51%	46%	52%	23%	25%	31%
6m	8.4	15.4	20.1	5.8	14.2	8.3	14.9	8.9	0.5	1.0	1.8	-0.1	8.0	-0.1	1.0	1.0	92%	54%	59%	51%	51%	8%	33%	35%
1 y	11.4	21.6	27.5	8.0	20.3	12.3	20.5	12.3	0.5	1.0	1.6	0.5	0.9	0.1	0.6	8.0	80%	57%	61%	74%	57%	34%	23%	40%
2 y	15.4	28.2	35.2	10.4	27.8	16.0	28.3	16.5	-0.2	8.0	1.6	0.2	0.7	-0.3	8.0	0.6	45%	75%	59%	69%	62%	37%	31%	40%
5у	21.8	36.7	44.1	15.9	40.7	19.1	40.3	25.0	0.7	1.0	1.6	0.4	1.0	0.5	1.4	0.6	70%	92%	46%	75%	61%	35%	88%	38%
	6-mo	nth Ca	rry of <i>I</i>	ATM (CMS S	oread C	ption	(cts)																
	Curr	ent Lev	/el						1-mo	nth Ch	ange						1-yea	ır Perc	entile					
Caps	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	-5.2	-8.5	-8.1	-3.3	-7.4	-4.1	-3.4	-1.0	-0.7	-1.0	-1.5	-1.0	-0.9	-0.5	-0.6	-0.4	45%	4%	12%	3%	1%	1%	41%	43%
2 y	-2.7	-1.5	-0.4	-1.7	-2.4	0.4	0.5	8.0	-0.2	-0.7	-2.0	-0.1	-0.5	0.1	-1.1	-0.9	21%	22%	32%	13%	24%	53%	29%	58%
5 y	1.0	2.5	5.5	0.6	2.0	2.2	3.1	1.0	-0.2	0.4	0.3	0.0	0.3	0.2	-0.3	-0.3	28%	43%	72%	39%	62%	78%	28%	29%
Floors	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	0.2	-3.1	-6.8	-0.8	-4.8	-4.0	-7.5	-5.1	1.0	1.3	1.8	0.1	0.9	0.2	1.1	0.6	84%	77%	85%	67%	82%	27%	78%	55%
2 y	-0.9	-2.3	-5.9	-0.8	-4.1	-2.1	-6.7	-3.8	1.5	1.2	1.3	8.0	0.7	0.3	0.6	0.5	92%	84%	73%	73%	68%	59%	66%	80%
5 y	-1.8	-4.5	-5.2	-1.5	-4.3	-2.0	-4.9	-2.7	-0.7	-0.5	-0.2	-0.2	-0.4	-0.2	-0.3	0.1	26%	16%	51%	53%	30%	22%	4%	20%
Zero-C	oct CI	VIC 1v2	Can/E	loor	Datios																			

Zero-Cost CMS 1x2 Cap/Floor Ratios

Strike Spreads (bps)		
Current Level	1-month Change	1-year Percentile

Caps	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	8.6	14.8	17.5	5.5	13.6	8.0	12.7	7.0	0.5	1.4	1.8	-0.1	1.3	0.2	0.9	8.0	83%	56%	50%	47%	54%	24%	17%	26%
6m	12.0	21.8	24.8	8.1	20.1	11.8	18.4	10.3	8.0	1.8	2.2	-0.0	1.5	0.0	1.0	1.0	88%	54%	51%	53%	50%	10%	24%	33%
1 y	16.1	30.0	34.7	11.3	28.2	17.0	25.7	14.9	1.1	1.8	2.2	1.0	1.5	0.2	8.0	0.9	66%	52%	50%	65%	40%	19%	23%	40%
2 y	21.8	38.5	45.1	14.7	37.7	21.6	36.6	20.6	-0.0	1.0	2.2	0.4	0.9	-0.6	1.1	0.9	46%	60%	47%	65%	29%	11%	25%	40%
5 y	27.4	45.2	51.5	22.3	49.7	23.5	46.0	27.6	0.5	0.5	1.1	0.4	0.5	0.2	1.0	0.4	51%	85%	41%	70%	35%	27%	59%	24%
Floors	2s5s	2s10s	2s30s	3 s 5 s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3 s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
3m	7.2	12.3	18.6	4.8	11.3	6.5	13.9	9.0	0.5	8.0	2.2	-0.1	0.7	-0.1	1.4	1.4	86%	51%	57%	51%	51%	26%	35%	33%
6m	9.7	17.7	26.0	6.7	16.2	9.4	19.7	13.0	0.6	0.9	2.5	-0.1	8.0	-0.3	1.5	1.6	93%	52%	74%	53%	55%	17%	41%	38%
1 y	13.3	25.3	34.9	9.3	24.0	14.5	26.5	17.2	0.5	1.1	2.0	0.5	1.0	0.1	0.9	1.1	93%	64%	77%	83%	65%	46%	42%	41%
2 y	18.0	33.3	43.2	12.2	33.0	18.9	35.5	22.8	-0.3	1.0	1.6	0.2	0.9	-0.3	0.7	0.7	43%	79%	63%	75%	71%	51%	39%	36%
5 y	31.0	51.4	65.4	20.5	58.0	26.8	61.6	39.4	0.7	1.1	1.6	0.4	1.0	0.6	1.5	0.5	49%	75%	50%	69%	53%	50%	65%	34%
	6-mo	nth Ca	rry of 2	Zero-(Cost 1x	2 CMS	Cap/F	loor Rat	ios (c	ts)														
	Curre	ent Lev	/el						1-mo	nth Ch	ange						1-yea	r Perc	entile					
Caps	2s5s	2s10s	2s30s	3 s 5 s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	1.5	3.3	5.4	1.2	3.4	2.3	4.1	2.7	-0.0	-0.2	-0.0	0.2	-0.2	-0.1	-0.1	-0.1	44%	41%	44%	66%	30%	71%	25%	49%
2 y	1.2	1.1	2.2	8.0	2.0	0.3	2.2	1.2	-0.5	-0.2	0.4	-0.3	-0.2	-0.2	0.2	0.2	37%	43%	54%	51%	55%	26%	72%	39%
5у	-0.2	-0.3	-1.8	0.3	-0.2	-0.7	-0.8	0.0	0.3	-0.1	-0.2	0.1	-0.1	-0.1	0.1	0.0	72%	69%	17%	73%	42%	24%	97%	89%
Floors	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s	2s5s	2s10s	2s30s	3s5s	3s10s	5s10s	5s30s	10s30s
1 y	2.0	4.5	4.6	1.5	4.6	2.9	3.2	1.6	-0.2	0.2	-0.1	0.4	0.3	0.3	-0.1	0.0	46%	91%	51%	89%	95%	99%	11%	36%
2 y	1.3	1.4	2.3	0.9	2.5	8.0	2.2	1.1	-0.4	-0.3	-0.1	-0.2	-0.2	-0.2	-0.1	-0.0	18%	25%	30%	48%	42%	31%	23%	22%
5 y	0.9	1.9	1.5	0.4	2.0	0.6	1.8	1.0	0.2	-0.0	-0.1	-0.0	-0.0	0.0	0.2	0.0	72%	73%	21%	33%	35%	33%	99%	76%

The colour scheme of the tables follows the conventions below:

- 1) **Levels**: Red = value less than median; White = value equal to median; Green = value greater than median;
- 2) **Changes**: Red = value less than 0; White = value equal to 0; Green = value greater than 0;
- 3) **Percentiles**: Red = value less than 50%; White = value equal to 50%; Green = value greater than 50%.

Notes

- (1) All the carry shown above are convexity-adjusted;
- (2) Strike spread = X which is solved for zero-cost Cap(ATM)-2*Cap(ATM+X) and Floor(ATM)-2*Floor(ATM-X).

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Subject: TARDIS Forward Vol Snapshot (05-Feb-16)

TARDIS Forward Vol Snapshot

05-Feb-16

This report aims to provide an overview of forward vol trades. For further questions, please contact QuantStrategies@nomura.com.

USD Trades

	Forwa	ard Vo	l (bpv)																	
	Curre	ent Le	vel					1-mo	nth Ch	ange					1-ye	ar Per	centil	е			
6m Exp.	1 y	2у	Зу	5у	10 y	20 y	30 y	1 y	2y	3у	5у	10 y	20 y	30 y	1 y	2y	Зу	5у	10 y	20y	30y
3m	53.3	60.9						2.9	-0.8						0.5	12%					
6m	54.8	62.4		76.5	79.5		76.4	4.2	2.0		2.9	3.1		3.3	0.2	6%		9%	12%		28%
1 y	70.8	74.4	77.2	80.4	81.7		77.9	4.1	1.6	1.3	2.6	2.9		3.7	0.1	11%	12%	13%	20%		56%
2 y	79.7	0.08	81.5	83.7	84.2		76.6	0.2	-1.1	-0.4	2.0	2.3		2.7	0.0	2%	5%	14%	32%		63%
3 y	86.5	85.5		86.4	85.5		75.3	-0.8	-1.2		1.5	1.8		2.0	0.0	1%		14%	45%		66%
1y Exp.	1 y	2y	Зу	5у	10 y	20y	30y	1 y	2y	Зу	5у	10 y	20 y	30y	1 y	2y	Зу	5у	10 y	20y	30y
1 y	74.2	75.0	75.2	79.9	80.2		75.8	2.1	-1.2	-0.7	3.0	2.3		2.7	0.1	3%	3%	15%	32%		68%
2 y	84.7	81.7	81.5	82.1	83.3		74.1	-0.3	-1.5	-1.0	1.2	1.7		1.9	0.0	4%	4%	11%	39%		76%
3 y	86.9	84.1		85.8	85.0		72.7	-1.5	-1.9		1.5	1.7		1.6	0.0	0%		19%	57%		71%
5 y		88.7		87.8	82.0	73.0	70.1		-0.9		2.2	2.0	1.4	1.4		9%		81%	74%	69%	77%
10 y				78.2	73.7	64.1					2.0	2.2	2.2					83%	90%	90%	
2y Exp.	1 y	2y	3у	5у	10 y	20 y	30y	1 y	2y	3у	5у	10 y	20 y	30y	1 y	2y	3у	5у	10 y	20y	30y
1 y	89.5	0.88	77.3	78.5	74.5		70.5	3.8	-0.4	-2.5	-0.7	0.5		1.3	0.4	8%	3%	4%	41%		78%
2 y	87.4	81.2	79.1	81.8	81.8		68.6	-1.9	-3.9	-3.8	0.5	1.8		1.3	0.0	0%	0%	10%	54%		71%
3у	83.8	80.1		84.1	83.7		67.5	-4.1	-5.1		1.5	1.8		1.2	0.0	0%		51%	68%		69%
5 y		87.2		84.4	76.7	68.6	65.4		-0.4		2.9	2.3	1.5	1.5		60%		89%	79%	78%	91%
10 y				74.6	70.3	59.8					2.3	2.4	2.4					83%	96%	94%	
5y Exp.	1 y	2у	3у	5у	10 y	20 y	30y	1у	2 y	3у	5у	10 y	20 y	30y	1 y	2y	3у	5у	10 y	20y	30y
1 y	77.8	79.8	47.6	60.1	39.2		53.4	6.2	-3.3	-9.8	0.2	2.6		2.0	0.5	14%	15%	62%	89%		100%
2 y	75.1	57.9	50.2	60.5	73.1		51.0	-0.5	-8.9	-10.6	0.7	3.6		2.1	0.4	38%	34%	86%	88%		99%
3 y	55.3	43.3		59.3	70.4		51.7	-6.8	-13.3		1.3	3.2		3.0	0.1	10%		92%	65%		100%
5 y		67.4		73.2	58.7	58.0	53.1		-1.0		3.6	4.0	4.2	4.2		42%		100%	96%	100%	100%
10 y				63.6	60.7	47.5					3.6	4.0	3.6					100%	100%	98%	

1y -11.0 -3.1 2.3 2.9 3.6 4.8 0.2 2.6 2.7 0.6 2.5 2.7 0.8 94% 94% 79% 46% 2y -5.7 -0.8 1.6 3.4 2.1 5.4 1.4 1.8 2.2 2.4 2.0 2.6 2.7 0.8 94% 94% 79% 46% 36% 36% 39% 0.7 3.4 1.5 1.1 5.2 2.2 2.3 1.0 1.1 1.5 0.7 62% 25% 25% 25% 5y 1.6 2.2 4.2 4.1 4.6 0.6 0.6 0.5 0.6 0.9 0.9 0.9 9% 15% 32% 34% 71% 28% 33% 2y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30% 1y 2y 3x 5y 10y 20y 3x 5y 10y 2x		FVA .	Ly Cai	ry (bp	v)																	
3m		Curre	ent Le	vel					1-mo	nth Ch	nange					1-ye	ar Per	centil	е			
6m	6m Exp.	1 y	2y	Зу	5у	10 y	20y	30y	1y	2y	3у	5у	10 y	20y	30y	1у	2y	Зу	5у	10y	20y	30y
1y	3m	-9.7	-0.9						1.4	3.7						0.5	86%					
2y -0.7 0.9 1.6 1.9 1.2 2.8 1.0 1.4 1.6 1.5 1.4 1.1 0.6 48% 60% 60% 52% 37% 39 1.2 2.0 0.9 0.6 2.7 1.5 1.6 0.9 0.9 0.9 1.1 0.6 62% 45% 37% 37% 37% 37% 37% 37% 37% 37% 37% 37	6m	-5.1	1.0		2.7	1.7		3.5	-1.5	-1.3		0.3	2.1		2.9	0.6	78%		65%	60%		55%
3y	1 y	-7.5	-2.5	0.4	2.5	2.0		2.7	-1.8	-0.2	0.7	1.0	1.9		1.7	0.7	81%	80%	77%	59%		50%
1y Exp. 1y	2 y	-0.7	0.9	1.6	1.9	1.2		2.8	1.0	1.4	1.6	1.5	1.4		1.4	0.6	48%	60%	60%	52%		45%
1y -11.0 -3.1 2.3 2.9 3.6 4.8 0.2 2.6 2.7 0.6 2.5 2.7 0.8 94% 79% 46% 2y -5.7 -0.8 1.6 3.4 2.1 5.4 1.4 1.8 2.2 2.4 2.0 2.2 0.7 30% 54% 63% 36% 3y 0.7 3.4 1.5 1.1 5.2 2.2 2.3 1.0 1.1 1.5 0.7 62% 25% 25% 25% 5y 1.6 2.2 4.2 4.1 4.6 0.6 0.5 0.6 0.9 0.9 9% 15% 32% 34% 10y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 2y 3y	3у	1.2	2.0		0.9	0.6		2.7	1.5	1.6		0.9	0.9		1.1	0.6	62%		45%	37%		50%
2y -5.7 -0.8 1.6 3.4 2.1 5.4 1.4 1.8 2.2 2.4 2.0 2.2 0.7 30% 54% 63% 36% 3y 0.7 3.4 1.5 1.1 5.2 2.2 2.3 1.0 1.1 1.5 0.7 62% 25% 25% 5y 1.6 2.2 4.2 4.1 4.6 0.6 0.5 0.6 0.9 0.9 9% 15% 32% 34% 10y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 2y 3y 1 2y 3y 5y 10y 2y 3y 1y 2y 3y 5y 10y	1y Exp.	1 y	2 y	Зу	5у	10 y	20 y	30y	1 y	2у	Зу	5у	10 y	20 y	30y	1 y	2у	Зу	5y	10 y	20y	30y
3y 0.7 3.4 1.5 1.1 5.2 2.2 2.3 1.0 1.1 1.5 0.7 62% 25% 25% 25% 5y 1.6 2.2 4.2 4.1 4.6 0.6 0.5 0.6 0.9 0.9 9% 15% 32% 34% 10y 2y 3y 5y 10y 20y 30y 1y 2y 30 0.4 71% 28% 33% 2y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30 1y 2y 3y 5y 10y 2y 3y 1y 2y 3y 5y 10y 2y 3y 1y 2y 3y 5y	1 y	-11.0	-3.1	2.3	2.9	3.6		4.8	0.2	2.6	2.7	0.6	2.5		2.7	8.0	94%	94%	79%	46%		36%
5y	2 y	-5.7	-0.8	1.6	3.4	2.1		5.4	1.4	1.8	2.2	2.4	2.0		2.2	0.7	30%	54%	63%	36%		32%
10y 3.6 3.7 4.4	3у	0.7	3.4		1.5	1.1		5.2	2.2	2.3		1.0	1.1		1.5	0.7	62%		25%	25%		41%
2y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 30y 1y 2y 3y 5y 10y 20y 30y 1,4 0.0 4% 13% 61% 39% 2y -2.8 0.5 2.3 0.3 1.5 5.4 1.6 2.4 2.7 0.7 -0.1 0.5 0.3 32% 36% 18% 23% 3y 3.1 4.0 1.6 1.3 5.2 2.6 3.2 -0.0 -0.1 0.5 0.4 54% 3% 42% 5y 1.4 3.5 5.2 4.4 4.7 -0.4 -0.7 -0.4 -0.1 -0.1 0.0 14% 15% 20% 10y	5у		1.6		2.2	4.2	4.1	4.6		0.6		0.5	0.6	0.9	0.9		9%		15%	32%	34%	26%
1y -15.3 -13.1 -2.1 1.4 5.6 5.2 -1.7 -0.7 1.9 3.7 1.8 1.4 0.0 4% 13% 61% 39% 2y -2.8 0.5 2.3 0.3 1.5 5.4 1.6 2.4 2.7 0.7 -0.1 0.5 0.3 32% 36% 18% 23% 3y 3.1 4.0 1.6 1.3 5.2 2.6 3.2 -0.0 -0.1 0.5 0.4 54% 3% 42% 5y 1.4 3.5 5.2 4.4 4.7 -0.4 -0.7 -0.4 -0.1 -0.1 0% 14% 15% 20% 10y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 208 6.1 -5.9 -0.6 4.3 2.3 0.1 -0.7 0.0 4% 49% 82% 29% 2y 1.7.2 1.3	10 y				3.6	3.7	4.4					0.3	0.3	0.4					71%	28%	33%	
2y -2.8 0.5 2.3 0.3 1.5 5.4 1.6 2.4 2.7 0.7 -0.1 0.5 0.3 32% 36% 18% 23% 3y 3.1 4.0 1.6 1.3 5.2 2.6 3.2 -0.0 -0.1 0.5 0.4 54% 3% 42% 5y 1.4 3.5 5.2 4.4 4.7 -0.4 -0.7 -0.4 -0.1 -0.1 0% 14% 15% 20% 10y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30 1y 2y 3y 5y 10y 20% 4.3 2.3 0.1 -0.7 0.0 4% 49% 82% 29% 2y 8.2 13.5 17.3 13.1 5.1 6.2 -1.2 3.0 5.2 1.6 -0.0 -0.5 0.2 33% 74% 69% 32%	2y Exp.	1 y	2у	3у	5у	10 y	20y	30y	1 y	2у	3у	5у	10 y	20 y	30y	1у	2у	3у	5у	10 y	20y	30y
3y 3.1 4.0 1.6 1.3 5.2 2.6 3.2 -0.0 -0.1 0.5 0.4 54% 3% 42% 5y 1.4 3.5 5.2 4.4 4.7 -0.4 -0.7 -0.4 -0.7 -0.4 -0.1 -0.1 0% 14% 15% 20% 36% 12% 13% 5y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 3y 17.2 2y 3y 5y 10y 20y 3y 5y 10y 20y 3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 0% 9% 0% 10y 3.9 3.1 4.0 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5 -0.4 5% 3% 10% 5% 3% 3% 10% 5% 3% 1	1 y	-15.3	-13.1	-2.1	1.4	5.6		5.2	-1.7	-0.7	1.9	3.7	1.8		1.4	0.0	4%	13%	61%	39%		41%
5y 1.4 3.5 5.2 4.4 4.7 -0.4 -0.7 -0.4 -0.1 -0.1 0% 14% 15% 20% 10y 2y 3.6 3.4 4.3 4.3 2y 30 10 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20% 30y 1y 2y 3y 5y 10y 20% 4.3 2.3 0.1 -0.7 0.0 4% 49% 82% 29% 2y 8.2 13.5 17.3 13.1 5.1 6.2 -1.2 3.0 5.2 1.6 -0.0 -0.5 0.2 33% 74% 69% 32% 3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1	2у	-2.8	0.5	2.3	0.3	1.5		5.4	1.6	2.4	2.7	0.7	-0.1		0.5	0.3	32%	36%	18%	23%		57%
10y 3.6 3.4 4.3 -0.3 -0.2 -0.2 -0.2 36% 12% 13% 5y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 30 5y 10y 20y 30y 1y 2y 30 5.2 1.6 -0.0 -0.7 0.0 4% 49% 82% 29% 2y 8.2 13.5 17.3 13.1 5.1 6.2 -1.2 3.0 5.2 1.6 -0.0 -0.5 0.2 33% 74% 69% 32% 3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% MCCS 1y Carry / PV 1-month Change 1-year Percentile <th>3у</th> <th>3.1</th> <th>4.0</th> <th></th> <th>1.6</th> <th>1.3</th> <th></th> <th>5.2</th> <th>2.6</th> <th>3.2</th> <th></th> <th>-0.0</th> <th>-0.1</th> <th></th> <th>0.5</th> <th>0.4</th> <th>54%</th> <th></th> <th>3%</th> <th>42%</th> <th></th> <th>59%</th>	3у	3.1	4.0		1.6	1.3		5.2	2.6	3.2		-0.0	-0.1		0.5	0.4	54%		3%	42%		59%
5y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 20y 30y 1y 2y 3y 5y 10y 20y 30y 52 1.6 -0.0 -0.5 0.2 33% 74% 69% 32% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% 10y 3.9 3.1 4.0 4.0 -0.4 -0.5 -0.4 -0.4 -0.5 -0.4 -0.5 -0.4 -0.5	5у		1.4		3.5	5.2	4.4	4.7		-0.4		-0.7	-0.4	-0.1	-0.1		0%		14%	15%	20%	7%
1y 6.3 6.3 19.7 17.1 20.8 6.1 -5.9 -0.6 4.3 2.3 0.1 -0.7 0.0 4% 49% 82% 29% 2y 8.2 13.5 17.3 13.1 5.1 6.2 -1.2 3.0 5.2 1.6 -0.0 -0.5 0.2 33% 74% 69% 32% 3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% 10y 3.9 3.1 4.0 -0.4 -0.5 -0.4 -0.4 -0.5 -0.4 5% 3% 10% MCCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	10 y				3.6	3.4	4.3					-0.3	-0.2	-0.2					36%	12%	13%	
2y 8.2 13.5 17.3 13.1 5.1 6.2 -1.2 3.0 5.2 1.6 -0.0 -0.5 0.2 33% 74% 69% 32% 3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% MCCS 1y Carry / PV McCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	5у Ехр.	1 y	2у	Зу	5у	10 y	20 y	30y	1 y	2у	Зу	5у	10 y	20y	30y	1 y	2у	Зу	5у	10 y	20y	30y
3y 17.2 22.4 12.0 5.6 4.9 4.7 7.5 1.5 -0.1 -1.2 1.0 100% 79% 55% 5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% MCCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	1 y	6.3	6.3	19.7	17.1	20.8		6.1	-5.9	-0.6	4.3	2.3	0.1		-0.7	0.0	4%	49%	82%	29%		7%
5y 7.8 3.7 6.4 3.4 3.9 0.7 -0.1 -0.5 -1.0 -1.0 88% 0% 9% 0% 10y 3.9 3.1 4.0 -0.4 -0.5 -0.4 5% 3% 10% MCCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	2у	8.2	13.5	17.3	13.1	5.1		6.2	-1.2	3.0	5.2	1.6	-0.0		-0.5	0.2	33%	74%	69%	32%		6%
10y 3.9 3.1 4.0 -0.4 -0.5 -0.4 5% 3% 10% MCCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	3у	17.2	22.4		12.0	5.6		4.9	4.7	7.5		1.5	-0.1		-1.2	1.0	100%		79%	55%		0%
MCCS 1y Carry / PV Current Level 1-month Change 1-year Percentile	5у		7.8		3.7	6.4	3.4	3.9		0.7		-0.1	-0.5	-1.0	-1.0		88%		0%	9%	0%	0%
Current Level 1-month Change 1-year Percentile	10 y				3.9	3.1	4.0					-0.4	-0.5	-0.4					5%	3%	10%	
		MCC:	S 1y C	arry /	PV																	
		Curre	ent Le	vel					1-mo	nth Ch	nange					1-ye	ar Per	centil	е			
6m Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y	6m Exp.	1 y	2 y	Зу	5у	10 y	20 y	30 y	1 y	2у	3у	5у	10 y	20 y	30y	1 y	2 y	3у	5у	10 y	20y	30y
3m 2.20 2.66 -0.47 0.02 0.05 36%	3m	2.20	2.66						-0.47	0.02						0.05	36%					
6m 2.10 2.08 1.79 1.70 1.73 -0.22 -0.12 0.15 0.20 0.19 0.29 47% 60% 66%	6m	2.10	2.08		1.79	1.70		1.73	-0.22	-0.12		0.15	0.20		0.19	0.29	47%		60%	66%		65%
1y 0.93 1.11 1.19 1.23 1.15 1.14 <mark>-0.19</mark> -0.02 0.06 0.08 0.11 0.09 0.15 58% 70% 80% 61%	1 y	0.93	1.11	1.19	1.23	1.15		1.14	-0.19	-0.02	0.06	0.08	0.11		0.09	0.15	58%	70%	80%	61%		59%
2y 0.76 0.77 0.84 0.79 0.77 0.80 0.07 0.11 0.12 0.09 0.08 0.08 0.59 39% 76% 58% 73%	2v	0.76	0.77	0.84	0.79	0.77		0.80	0.07	0.11	0.12	0.09	0.08		80.0	0.59	39%	76%	58%	73%		49%
3y 0.61 0.60 0.60 0.57 0.67 0.09 0.10 0.07 0.06 0.07 0.58 30% 59% 58%	- y	0.61	0.60		0.60	0.57		0.67	0.09	0.10		0.07	0.06		0.07	0.58	30%		59%	58%		60%
1y Exp. 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y 30y 1y 2y 3y 5y 10y 20y		1v	2y	Зу	5у	10 y	20 y	30y	1y	2y	3у	5у	10 y	20 y	30 y	1 y	2у	3у	5у	10 y	20y	30y
1y 1.48 1.75 2.04 2.02 1.88 1.83 <mark>-0.11</mark> 0.19 0.27 0.13 0.16 0.17 0.31 78% 86% 90% 48%	3 y	- y								0.40		0.40	0.40		0 17	0.21	78%	960%	000%	4004		37%
2y 1.05 1.08 1.32 1.29 1.23 1.28 0.14 0.16 0.22 0.17 0.12 0.14 0.75 17% 84% 71% 83%	3y 1y Exp.	-		2.04	2.02	1.88		1.83	-0.11	0.19	0.27	0.13	0.16		0.17	0.51	1070	0090	90%	46%		3170
3y 0.93 0.92 0.95 0.89 1.10 0.16 0.17 0.09 0.08 0.11 0.84 18% 64% 55%	3y 1y Exp. 1y	1.48	1.75																			25%

5 y		0.68		0.68	0.67	0.81	0.85		0.09		0.02	0.05	0.07	0.07		34%		17%	16%	70%	47%
10 y				0.52	0.56	0.68					0.02	0.03	0.03					50%	21%	35%	
2y Exp.	1 y	2y	Зу	5у	10 y	20y	30 y	1 y	2y	Зу	5у	10 y	20y	30y	1 y	2y	Зу	5у	10 y	20y	30y
1 y	0.08	0.03	0.30	0.49	0.60		0.54	-0.03	-0.03	0.04	0.13	0.06		0.07	0.05	3%	9%	96%	77%		74%
2 y	0.26	0.23	0.43	0.31	0.44		0.46	0.07	0.09	0.11	0.05	0.01		0.04	0.32	18%	76%	46%	93%		79%
3у	0.36	0.16		0.36	0.34		0.41	0.11	0.09		0.02	0.01		0.03	0.38	18%		86%	98%		80%
5у		0.27		0.32	0.21	0.37	0.39		0.01		-0.05	0.00	0.01	0.01		60%		80%	12%	94%	83%
10 y				0.23	0.26	0.29					-0.00	0.00	-0.00					67%	92%	17%	
5у Ехр.	1 y	2 y	3у	5у	10 y	20 y	30 y	1 y	2у	3у	5у	10 y	20 y	30y	1 y	2 y	3у	5у	10 y	20y	30y
1 y	30.00	0.27	2.11	2.00	1.79		0.28	11.14	0.06	1.28	0.51	-0.02		0.01	1.00	14%	46%	100%	30%		6%
2у	0.49	3.55	4.06	0.74	0.53		0.31	0.06	2.39	2.80	0.15	0.00		-0.00	0.62	100%	98%	81%	89%		5%
Зу	0.13	0.84		1.06	0.40		0.21	0.10	0.50		0.14	0.01		-0.03	0.18	27%		99%	95%		0%
5у		0.43		0.20	-0.12	0.24	0.24		80.0		-0.05	0.01	-0.04	-0.04		100%		59%	14%	53%	5%
10 y				0.16	0.27	0.07					-0.02	-0.02	0.00					23%	86%	15%	
	MCCS	S Term	Carry	/ / PV																	
	Curre	ent Lev	vel					1-mo	nth Ch	nange					1-ye	ar Per	centile)			
6m Exp.	. 1y	2y	Зу	5y	10 y	20y	30y	1у	2у	Зу	5у	10 y	20y	30y	1у	2у	Зу	5у	10 y	20y	30y
3m	2.20	2.66						-0.47	0.02						0.05	36%					
6m	2.10	2.08		1.79	1.70		1.73	-0.22	-0.12		0.15	0.20		0.19	0.29	47%		60%	66%		65%
1 y	0.93	1.11	1.19	1.23	1.15		1.14	-0.19	-0.02	0.06	80.0	0.11		0.09	0.15	58%	70%	80%	61%		59%
2 y	0.76	0.77	0.84	0.79	0.77		0.80	0.07	0.11	0.12	0.09	80.0		80.0	0.59	39%	76%	58%	73%		49%
3у	0.61	0.60		0.60	0.57		0.67	0.09	0.10		0.07	0.06		0.07	0.58	30%		59%	58%		60%
1y Exp.	1 y	2y	Зу	5у	10 y	20y	30 y	1у	2у	3у	5у	10 y	20y	30y	1 y	2y	Зу	5у	10 y	20y	30y
1 y	1.48	1.75	2.04	2.02	1.88		1.83	-0.11	0.19	0.27	0.13	0.16		0.17	0.31	78%	86%	90%	48%		37%
2y	1.05	1.08	1.32	1.29	1.23		1.28	0.14	0.16	0.22	0.17	0.12		0.14	0.75	17%	84%	71%	83%		25%
3у	0.93	0.92		0.95	0.89		1.10	0.16	0.17		0.09	80.0		0.11	0.84	18%		64%	55%		55%
5у		0.68		0.68	0.67	0.81	0.85		0.09		0.02	0.05	0.07	0.07		34%		17%	16%	70%	47%
10 y				0.52	0.56	0.68					0.02	0.03	0.03					50%	21%	35%	
2y Exp.	1 y	2у	3у	5у	10 y	20 y	30 y	1 y	2у	Зу	5у	10 y	20y	30y	1 y	2у	3у	5у	10 y	20y	30y
1 y	1.65	1.88	3.00	3.38	3.52		3.30	-0.19	0.14	0.47	0.53	0.42		0.42	0.06	11%	27%	98%	52%		49%
2у	1.59	1.79	2.34	2.03	2.08		2.34	0.30	0.41	0.55	0.31	0.18		0.27	0.57	20%	93%	74%	98%		49%
3у	1.66	1.45		1.63	1.46		1.90	0.39	0.39		0.15	0.12		0.19	0.71	18%		71%	91%		52%
5у		1.13		1.19	1.14	1.43	1.52		0.12		-0.02	0.05	0.10	0.11		39%		25%	16%	81%	45%
10 y				0.87	0.96	1.14					0.02	0.03	0.03					69%	45%	15%	
5у Ехр.	1	2y	Зу	Ev.	10.4	201/	30y	1 y	2y	Зу	5y	10v	20y	30y	1 y	2y	Зу	5y	10 y	20y	30y
	1 y	Zy	Jy	5у	TOA	ZUy	Juy	-,	-,	•,	o,	TOY		5	•	•	-	•		-	_
1 y	-	5.74	_	_	26.05	_	8.68	-	1.67	17.91	_	_	Loy	0.75	_	35%	49%	100%	_		12%
1y 2y	-	5.74	_	18.12	26.05	_	_	0.00	1.67	_	4.60	0.96	Loy	_	1.00	_	_	100%	_		_

5у		3.98		2.71	2.50	3.28	3.73		0.58		-0.16	-0.05	-0.21	-0.29		98%		7%	2%	13%	2%
10 y				1.95	2.29	2.49					-0.08	-0.11	-0.10					22%	69%	4%	
	MCCS	S Term	ı Brea	k-Evei	n Ranç	ge / R	ealise	ed Vol													
	Curre	ent Le	vel					1-mo	nth Ch	nange					1-ye	ar Per	centile	е			
6m Exp.	1 y	2y	Зу	5у	10 y	20 y	30 y	1 y	2y	Зу	5у	10 y	20 y	30y	1 y	2у	3у	5у	10 y	20y	30y
3m	0.12	0.18						-0.00	0.01						0.07	11%					
6m	0.19	0.22		0.26	0.28		0.30	0.00	-0.01		0.02	0.03		0.01	0.08	6%		64%	95%		92%
1 y	0.18	0.22	0.25	0.29	0.30		0.31	-0.03	-0.01	0.00	0.02	0.03		0.00	0.00	14%	27%	88%	93%		92%
2y	0.24	0.26	0.29	0.29	0.31		0.33	0.01	0.02	0.03	0.03	0.03		0.01	0.27	40%	70%	93%	93%		92%
3у	0.29	0.29		0.29	0.30		0.35	0.03	0.04		0.03	0.02		0.00	0.61	72%		93%	93%		92%
1y Exp.	1 y	2y	Зу	5у	10 y	20y	30 y	1у	2y	Зу	5у	10 y	20 y	30y	1 y	2y	Зу	5у	10 y	20y	30y
1 y	0.34	0.41	0.50	0.55	0.56		0.59	-0.02	0.01	0.03	0.03			0.00	0.03	22%	34%	89%	92%		92%
2y	0.43	0.46	0.55	0.57	0.59		0.64	0.03	0.03	0.06	0.06	0.04		0.01	0.31	35%	68%	93%	92%		92%
3у	0.55	0.54		0.57	0.59		0.70	0.06	0.08		0.05	0.03		-0.00	0.67	64%		93%	92%		91%
5у		0.57		0.62	0.64	0.71	0.74		0.05			0.01		-0.02		90%		92%	90%	91%	91%
10 y				0.76	0.80						-0.07	-0.08						90%	90%	90%	
2y Exp.	1 y	2y	Зу	5у	10 y	20 y	30 y	1 y	2у	3у	5у	10 y	20 y	30y	1 y	2у	3у	5у	10 y	20y	30y
1 y	0.52	0.61	0.85	1.00	1.10		1.14	-0.04	0.01	0.05	0.09	0.09		0.02	0.03	3%	29%	92%	93%		92%
2y	0.79	0.88	1.06	1.04	1.15		1.29	0.07	0.10	0.14	0.12			0.00	0.32	38%	68%	93%	93%		92%
3у	1.11	1.02		1.13	1.14		1.39	0.16	0.19		0.09			-0.02		53%		93%	92%		92%
5у		1.15		1.29	1.30				0.07			-0.02				91%		91%	88%	91%	91%
10 y				1.58	1.70							-0.20						90%	90%	90%	
5y Exp.	1 y	2у	3у	5у	10 y	20 y	30y	1у	2у	3у	5у	_	20 y	30y	1 y	2у	3у	5у	10 y	20y	_
1 y	2.82	1.64	2.41		3.54				0.18		0.14			-0.06			15%	90%	92%		91%
2y	1.97		3.09	2.92					-0.09	0.02	0.20			-0.15			48%	91%	92%		91%
3у	2.58	3.10			3.04			-0.03			-0.12			-0.28				91%	92%		90%
5у		3.31			3.29		4.01		-0.07		-0.08	-0.19	-0.48	-0.57		90%		91%	72%	89%	89%
10 y				4.26	4.80	4.65															

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