Month End Summary of Commodity Options

Intro:
We are pleased to welcome you to our February 2022 month end report.

'2021 was a tumultuous year in markets. It is no surprise that 2022 is off to the races (or crashes depending on your views),' at least that's what we said last month. Nothing could have prepared us for this month. We will skip the commentary and instead encourage you to leaf through our tome

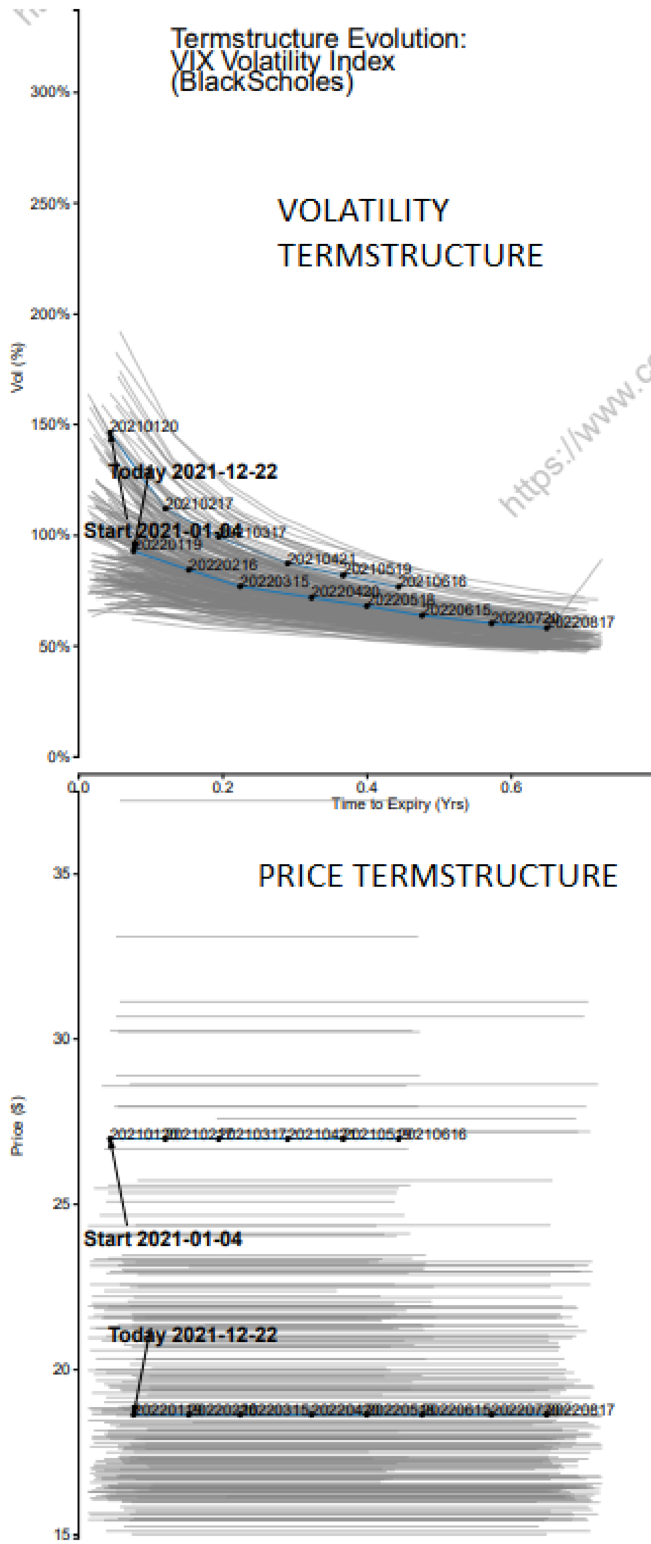
Anything which is close to a basic material, agricultural commodity or energy related has shown a bid in volatility that is off the charts.

As always we welcome you to visit our website and hope to help you manage risk!

CommodityVol.com is here to serve your needs around modeling, forecasting and understanding the market. If you have needs for commodity skews, parameterized surfaces (including stochastic volatility models), please do not hesitate to contact us! info@commodityvol.com

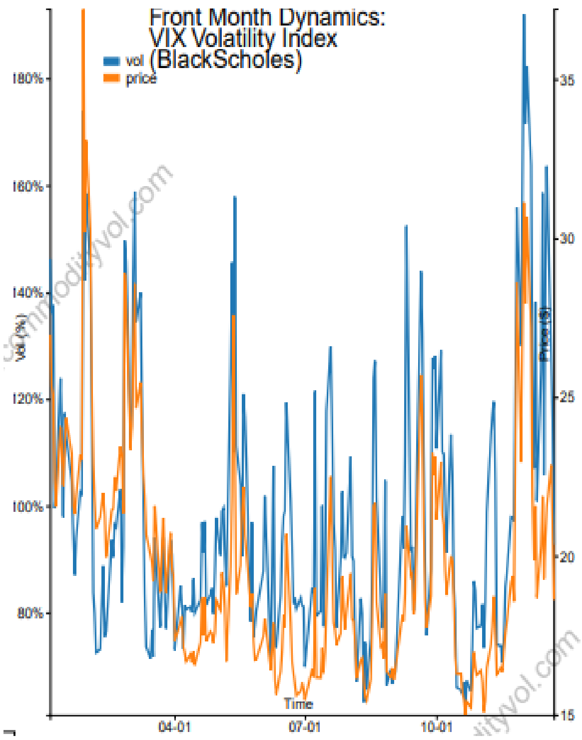
Explanation:
The document is composed of two parts. There is a tabular portion which summarizes the changes in front month futures prices and the changes in the at the money front month implied volatility. The results are presented as raw differences and percentage changes. The plots in this document try to give a feel for the evolution of the futures and options for each product type. The skew/termstructure/xyplots are broken out by major asset classes: Indexes, Fixed Income and so on.

At the Money Volatilty and Price Term Structures:
Stacked on top of the other on the left hand side, see the termstructures of vol and the (underlying) futures contract price.



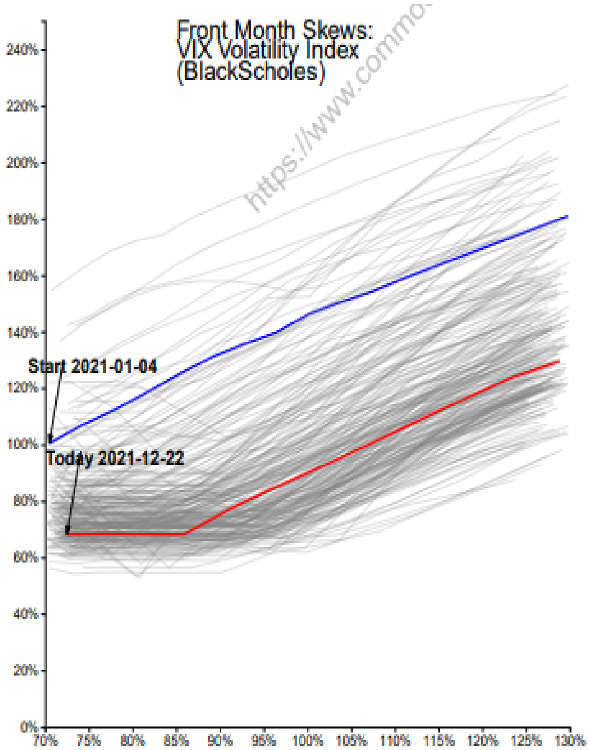
The starting curve is the termstructure at the beginning of the period. This curve is labelled start and is typically colored blue. The ending curve is typically colored red and denoted by the text: Today. The greyed out lines are the termstructures for each day of the period. The hope is that the range of movements becomes apparent.

Front Month At the Money Volatilty and Front Month Price Over the Year:
On the right hand panel we have the price and implied volatility of the front month contract.



At the money implied volatility is shown in blue and the axis on the left should be used to read off the values. The front month futures price is in orange and the right hand axis is where its value can be read.

Front Month Skew:
On the right hand in the bottom panel we have the starting front month skew and the ending front month skew.



The front month skew is shown for the starting date. The starting curve is labelled as 'Start' and captioned with the date. The starting curve is blue. Conversely, the ending curve is shown in red and labeled Today. The y-axis shows the implied volatility and the x-axis shows the moneyness. The moneyness is a way to normalize the skew so that it is comparable across time.

At The Money Roundup of Products

Energy

exch/prod	desc	futures chng [%]	vol chng [%]
NYMEX/BZO	Brent Crude Oil Margin	+8.810 [+9.9%]	+0.133 [+33.8%]
NYMEX/BE	Brent Euro Style	+10.200 [+11.6%]	-0.068 [-11.6%]
NYMEX/CVR	Chicago Ethanol(platts) Average Price	+0.198 [+9.2%]	-0.001 [-0.6%]
NYMEX/LO	Crude Oil	+7.520 [+8.5%]	+0.181 [+48.2%]
NYMEX/TFO	Dutch TTF Natural Gas	+22.428 [+29.4%]	+0.500 [+37.9%]
NYMEX/LN	European Natural Gas	-0.349 [-7.3%]	-0.296 [-36.0%]
NYMEX/E7	Henry Hub Financial Last Day	-0.349 [-7.3%]	-0.288 [-35.0%]
NYMEX/ON	Natural Gas	-0.349 [-7.3%]	-0.297 [-36.1%]
NYMEX/OH	NY Harbor ULSD	+0.190 [+6.9%]	+0.115 [+33.3%]
NYMEX/OB	RBOB	+0.357 [+13.9%]	+0.072 [+19.5%]

EquityIndex

exch/prod	desc	futures chng [%]	vol chng [%]
CBT/YM	E-Mini Dow	-1434.000 [-4.1%]	+0.068 [+39.8%]
CME/NQ	E-Mini Nasdaq	-766.750 [-5.1%]	+0.069 [+27.7%]
CME/RTO	E-Mini Russell 2000	-1.400 [-0.1%]	+0.067 [+25.6%]
CME/RTM	E-Mini Russell EOM	-4.000 [-0.2%]	+0.068 [+27.5%]
CME/ES	E-Mini S&P 500	-167.000 [-3.7%]	+0.078 [+42.1%]
CBOE/VIX	VIX Volatility Index	+8.190 [+37.3%]	+0.316 [+25.7%]

Forex

exch/prod	desc	futures chng [%]	vol chng [%]
CME/ADU	AUDUSD 2pmfix	+0.015 [+2.1%]	+0.032 [+32.3%]
CME/BTC	Bitcoin	+3415.000 [+8.9%]	+0.078 [+13.3%]
CME/BR	BRLUSD Monthly	+0.004 [+1.9%]	+0.019 [+12.7%]
CME/CAU	CADUSD 2pmfix	+0.001 [+0.1%]	+0.024 [+34.2%]
CME/CHU	CHFUSD 2pmfix	+0.005 [+0.5%]	+0.021 [+31.9%]
CME/EUU	EURUSD 2pmfix	-0.004 [-0.3%]	+0.060 [+96.7%]
CME/GBU	GBPUSD 2pmfix	-0.010 [-0.7%]	+0.040 [+61.9%]
CME/JPU	JPYUSD 2pmfix	-0.000 [-0.2%]	+0.028 [+45.7%]
CME/MP	Mexican Peso	+0.000 [+0.8%]	+0.022 [+21.0%]
CME/NE	New Zealand	+0.013 [+2.0%]	+0.001 [+1.0%]

Metals

exch/prod	desc	futures chng [%]	vol chng [%]
COMEX/HX	Copper	+0.021 [+0.5%]	+0.015 [+5.7%]
COMEX/OG	Gold	+99.200 [+5.5%]	+0.041 [+31.4%]
COMEX/ICT	Iron Ore 62% Fe	-2.290 [-1.6%]	+0.156 [+57.1%]
NYMEX/PAO	Palladium	+158.100 [+6.7%]	+0.016 [+3.3%]
NYMEX/PO	Platinum	+15.500 [+1.5%]	+0.013 [+4.4%]
COMEX/SO	Silver	+1.771 [+7.8%]	+0.007 [+2.6%]
COMEX/HRO	Us. Midwest Domestic Hot-rolled Coil Steel (CRU) Index Average Price	-124.000 [-10.5%]	-0.003 [-1.2%]

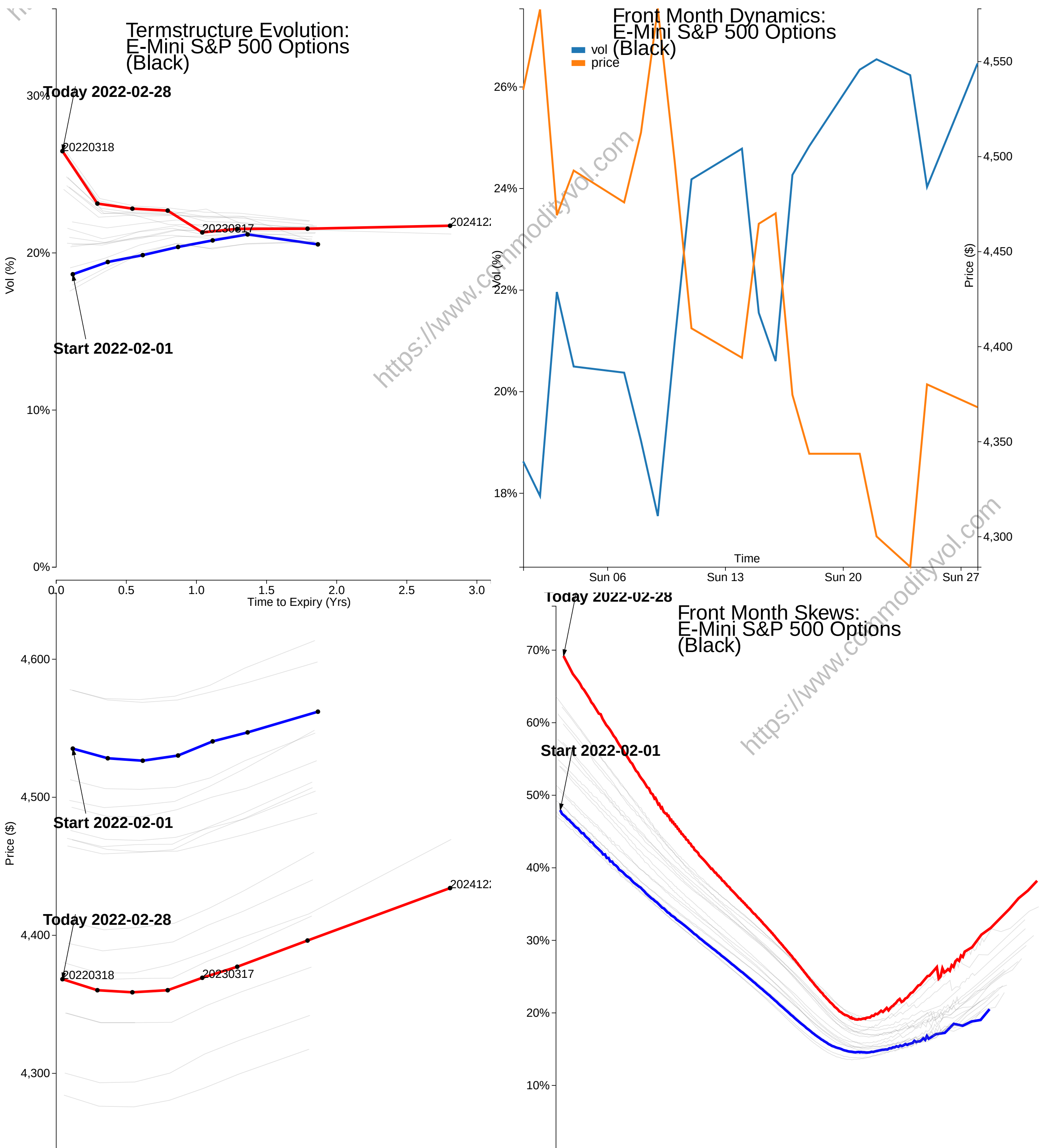
Ags

exch/prod	desc	futures chng [%]	vol chng [%]
CME/DK	Class IV Milk	+1.140 [+4.8%]	+0.041 [+51.4%]
CBT/C	Corn	+0.560 [+8.8%]	+0.165 [+66.2%]
CME/62	Feeder Cattle	-5.975 [-3.6%]	+0.016 [+12.6%]
CBT/KW	KC HRW Wheat	+1.667 [+21.2%]	+0.229 [+64.3%]
CME/LN	Lean Hog	+15.350 [+17.4%]	+0.144 [+98.1%]
CME/48	Live Cattle	-3.950 [-2.7%]	+0.044 [+35.6%]
CME/LB	Lumber110	+258.800 [+27.7%]	+0.240 [+42.9%]
CME/NF	Nonfat Dry Milk	+5.975 [+3.4%]	-0.029 [-36.4%]
CBT/O	Oats	-0.740 [-10.3%]	+0.008 [+2.1%]
CBT/14	Rough Rice	+0.520 [+3.4%]	-0.001 [-0.4%]
CBT/S	Soybean	+1.082 [+7.1%]	+0.012 [+4.5%]
CBT/06	Soybean Meal	+10.300 [+2.4%]	-0.032 [-9.3%]
CBT/07	Soybean Oil	+6.690 [+10.2%]	+0.050 [+15.8%]
CBT/W	Wheat	+1.650 [+21.5%]	+0.252 [+75.8%]

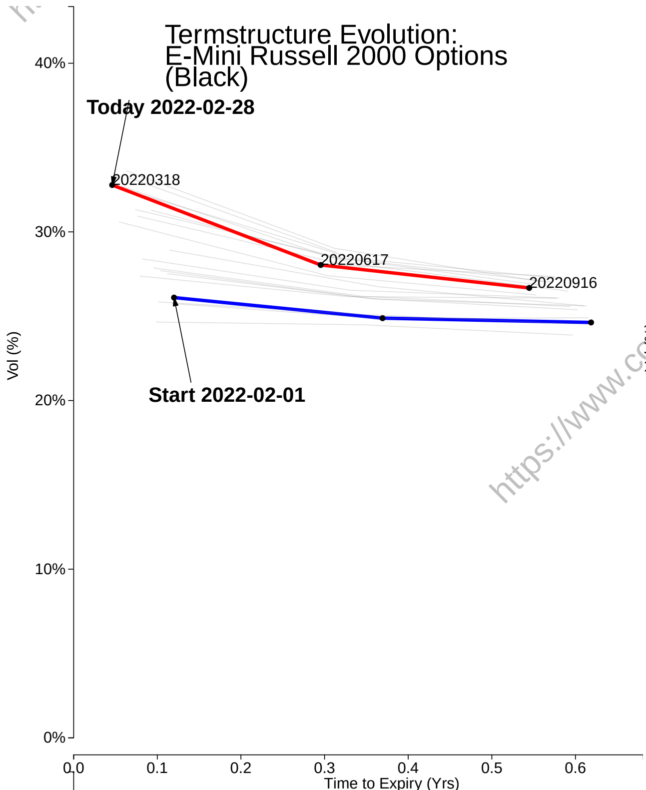
exch/prod	desc	futures chng [%]	vol chng [%]
CBT/26	2 YR US Treasury Note	-0.715 [-0.7%]	+0.007 [+42.7%]
CBT/25	5 YR US Treasury Note	-0.875 [-0.7%]	+0.013 [+36.1%]
CBT/21	10 YR US Treasury Note	-0.438 [-0.3%]	+0.020 [+38.8%]
CBT/17	30 YR US Treasury Bond	+1.375 [+0.9%]	+0.029 [+31.1%]
CME/ED	Eurodollar	-0.145 [-0.1%]	+0.004 [+90.0%]
CBT/UBE	Long Term US Treasury Bond	-2.063 [-1.1%]	+0.035 [+24.0%]

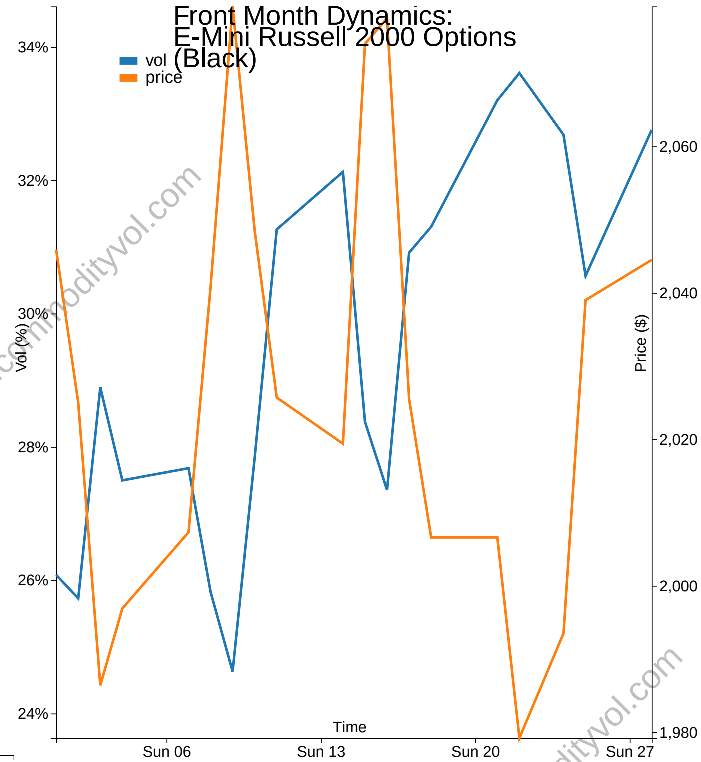
Skews, Termstructures and more

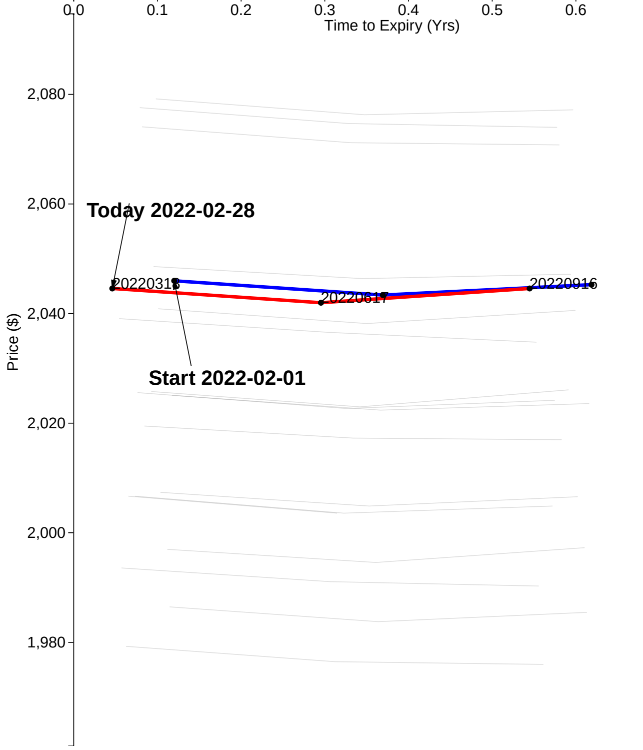
Equity Index

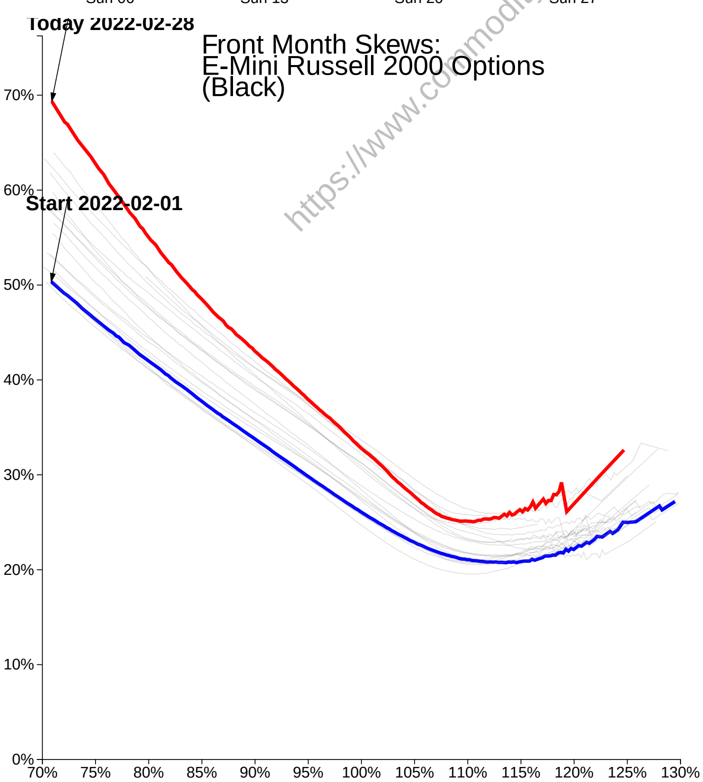


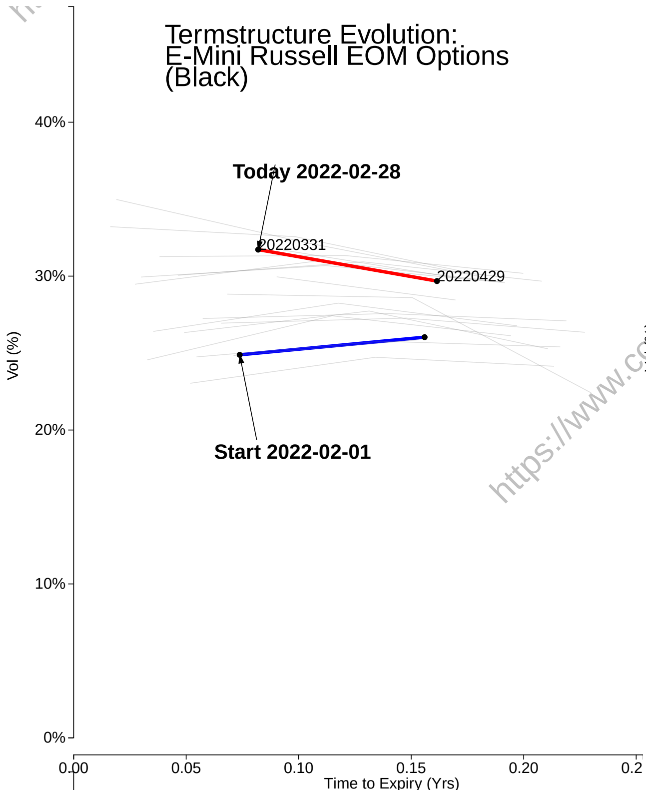
Termstructure Evolution:
E-Mini S&P 500 Options
(Black)
Today 2022-02-28
20220318
20230317
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)
Front Month Dynamics:
E-Mini S&P 500 Options
(Black)
vol
price
Time
Sun 06
Sun 13
Sun 20
Sun 27
Price ($)
Front Month Skews:
E-Mini S&P 500 Options
(Black)
https://www.commodityvol.com

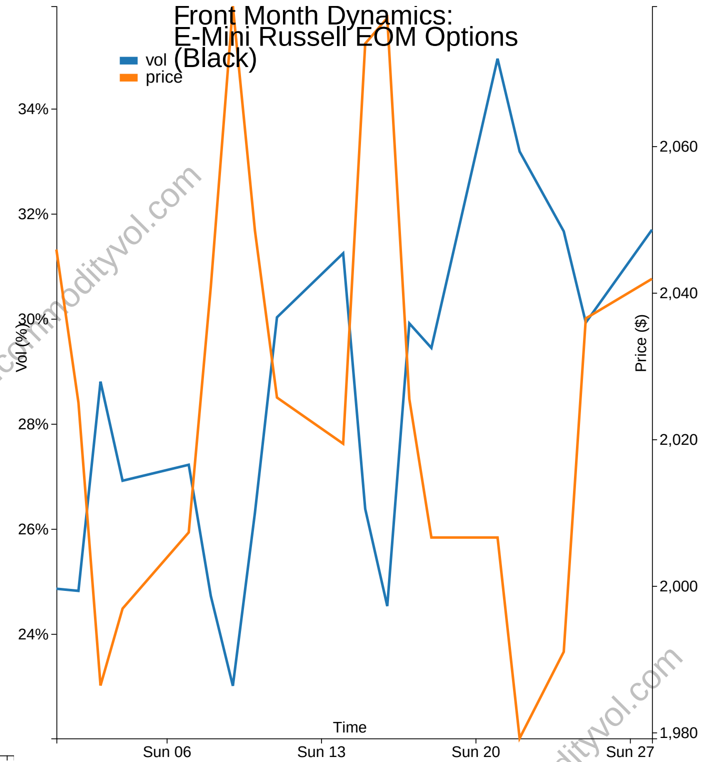

Termstructure Evolution:
E-Mini Russell 2000 Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220318
20220617
20220916
Vol (%)
Time to Expiry (Yrs)

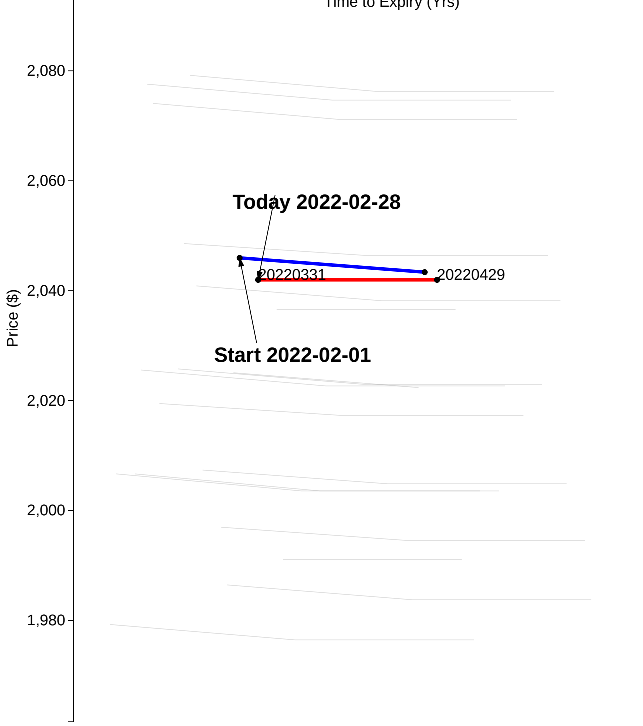

Front Month Dynamics:
E-Mini Russell 2000 Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

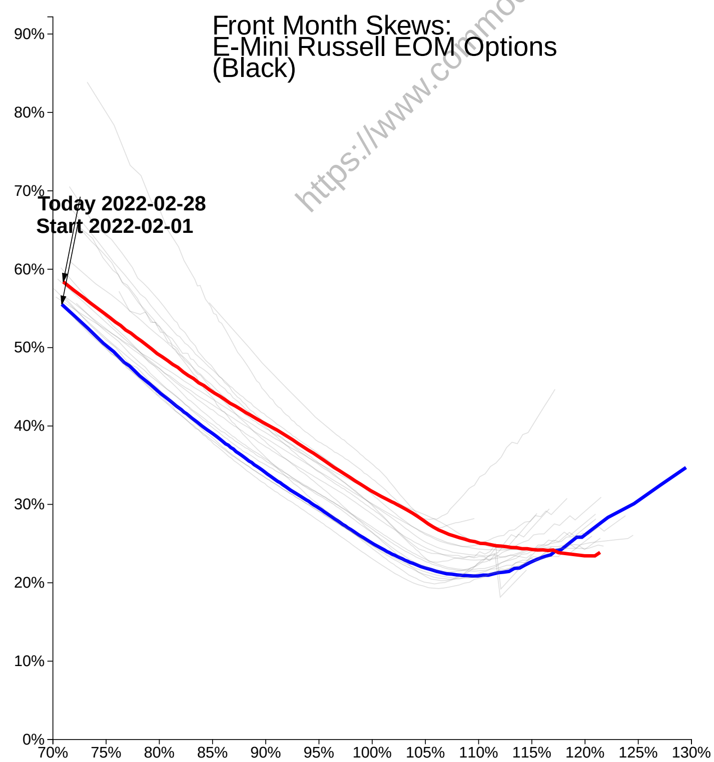

Today 2022-02-28
Start 2022-02-01
20220318
20220617
20220916
Price ($)

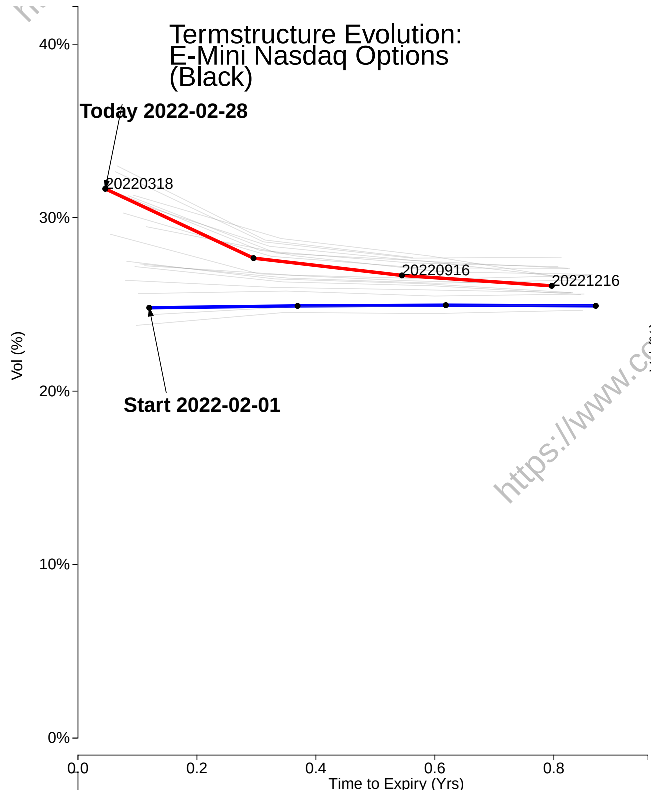

Front Month Skews:
E-Mini Russell 2000 Options
(Black)
Today 2022-02-28
Start 2022-02-01

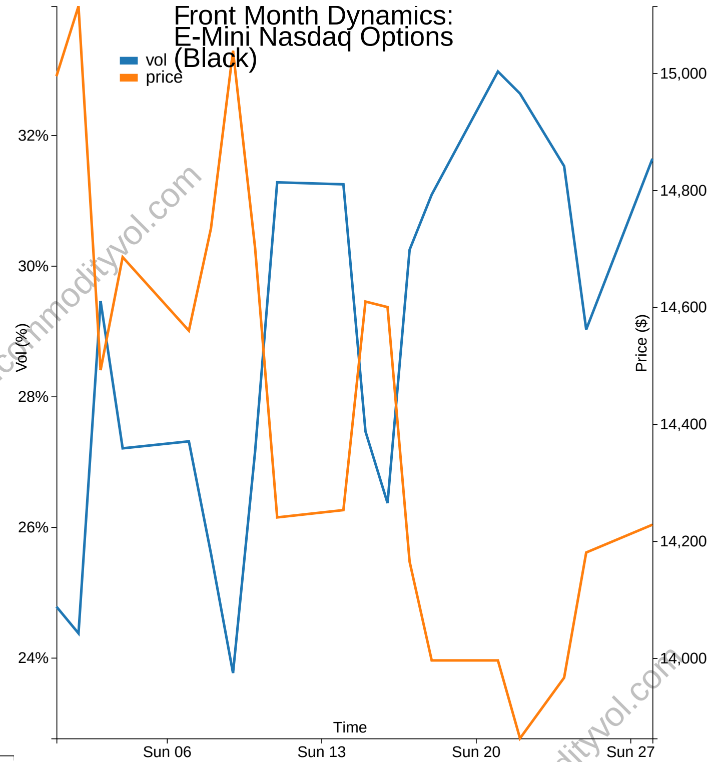

Termstructure Evolution:
E-Mini Russell EOM Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220331
20220429
Vol (%)
0%
10%
20%
30%
40%
0.00
0.05
0.10
0.15
0.20
Time to Expiry (Yrs)

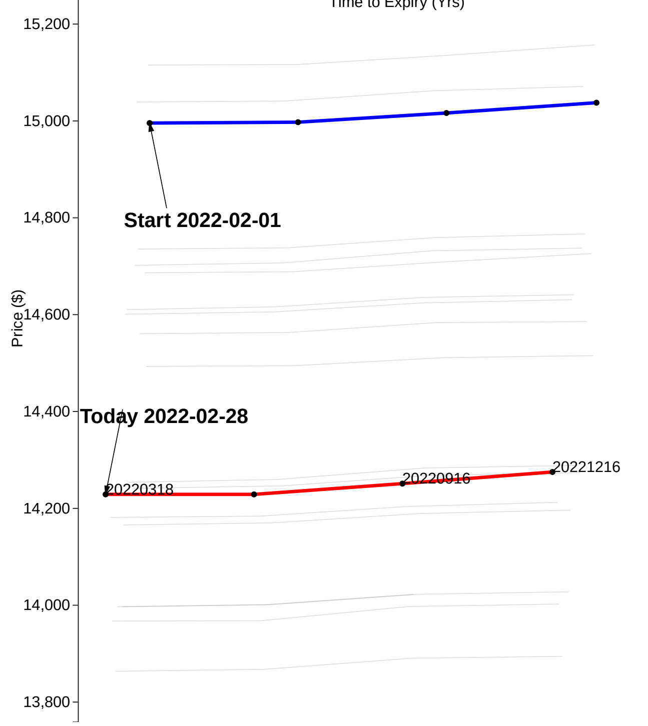

Front Month Dynamics:
E-Mini Russell EOM Options
(Black)
vol
price
Vol (%)
Price ($)
24%
26%
28%
30%
32%
34%
1,980
2,000
2,020
2,040
2,060
Time
Sun 06
Sun 13
Sun 20
Sun 27

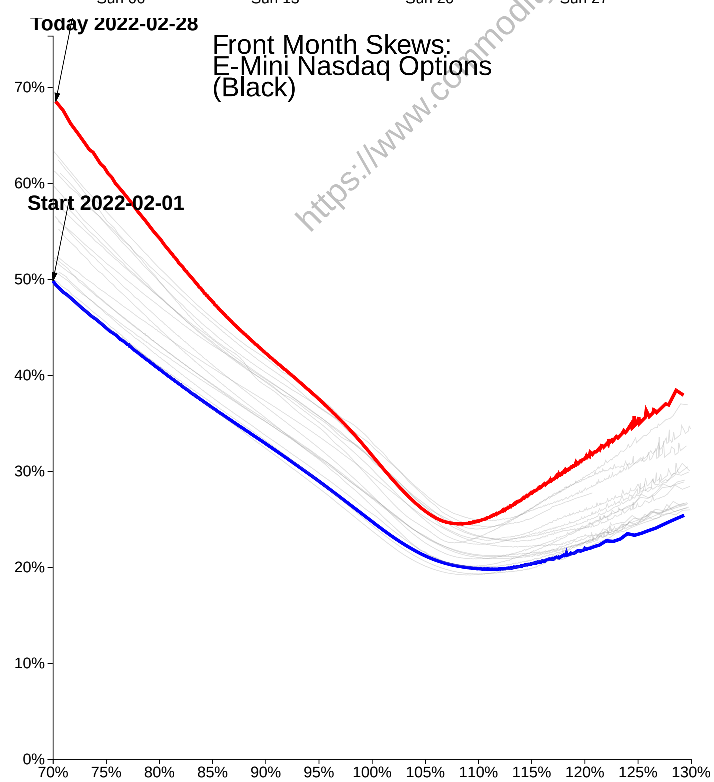

Today 2022-02-28
Start 2022-02-01
20220331
20220429
Price ($)
1,980
2,000
2,020
2,040
2,060
2,080

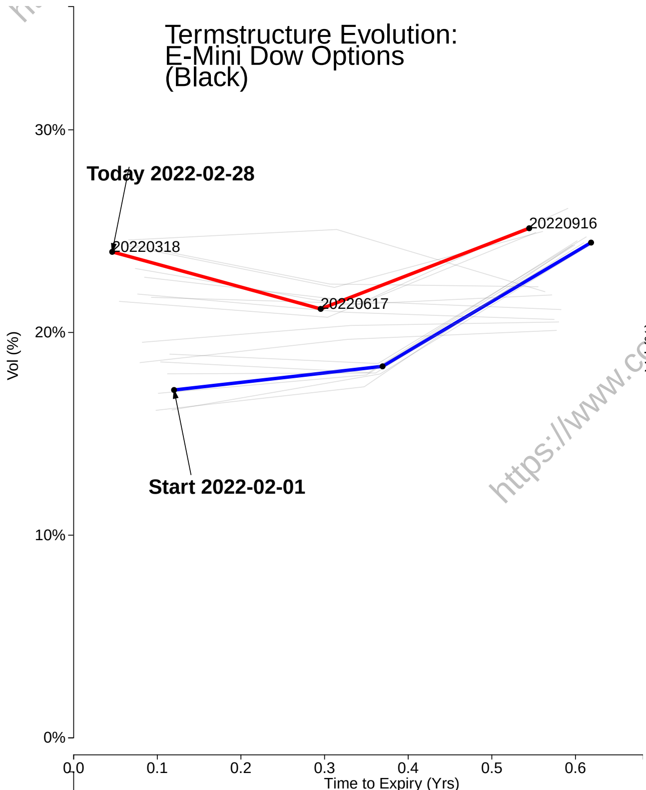

Front Month Skews:
E-Mini Russell EOM Options
(Black)
Today 2022-02-28
Start 2022-02-01
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

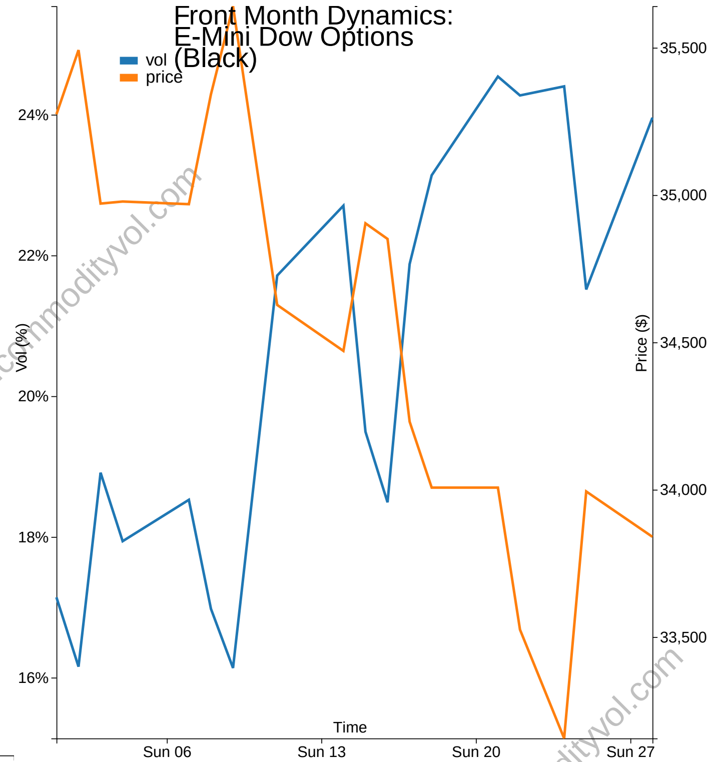

Termstructure Evolution:
E-Mini Nasdaq Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220318
20220916
20221216
Vol (%)
Time to Expiry (Yrs)
https://www.commodityvol.com

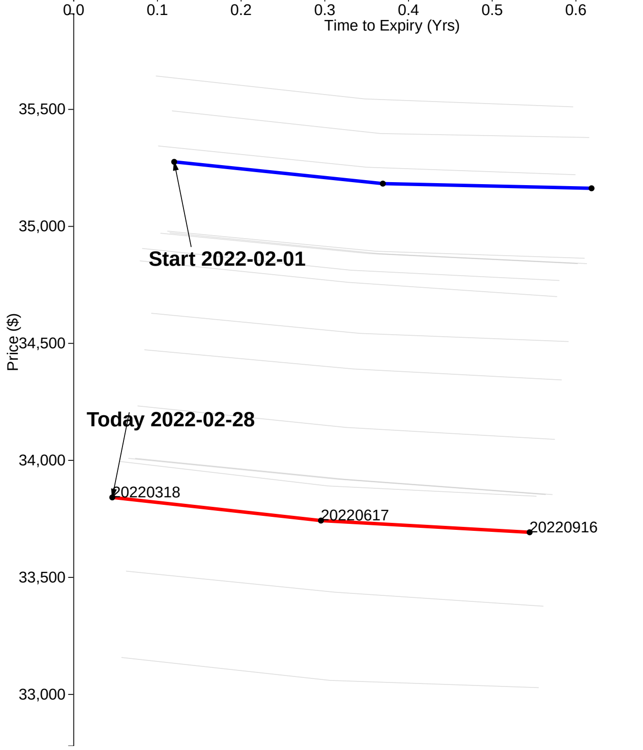

Front Month Dynamics:
E-Mini Nasdaq Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
https://www.commodityvol.com

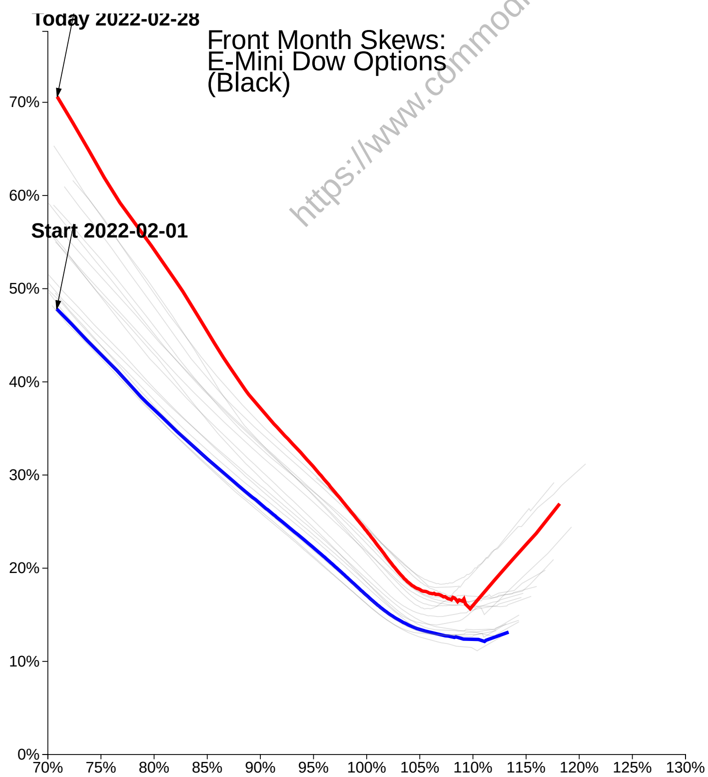

Start 2022-02-01
Today 2022-02-28
20220318
20220916
20221216
Price ($)

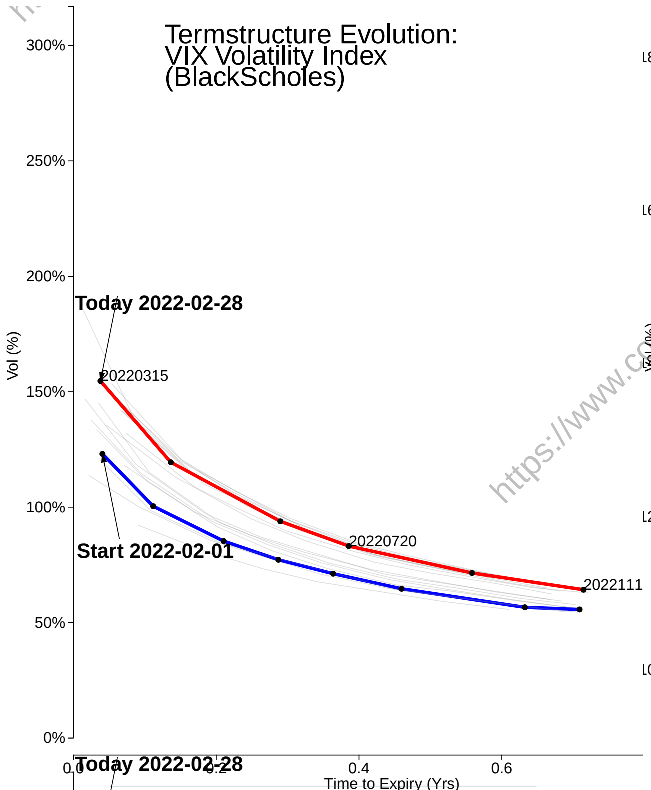

Front Month Skews:
E-Mini Nasdaq Options
(Black)
Today 2022-02-28
Start 2022-02-01
https://www.commodityvol.com

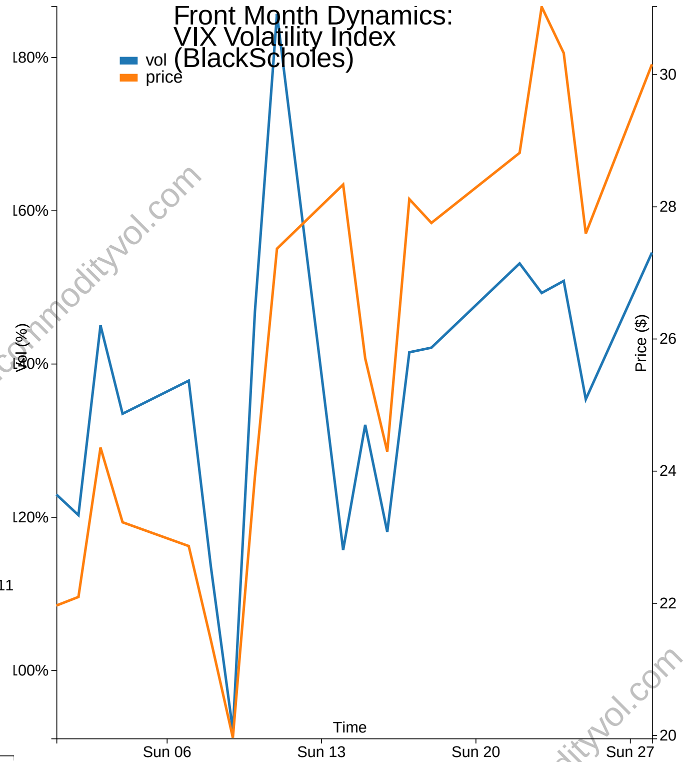

Termstructure Evolution:
E-Mini Dow Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220318
20220617
20220916
Vol (%)
Time to Expiry (Yrs)
https://www.commodityvol.com

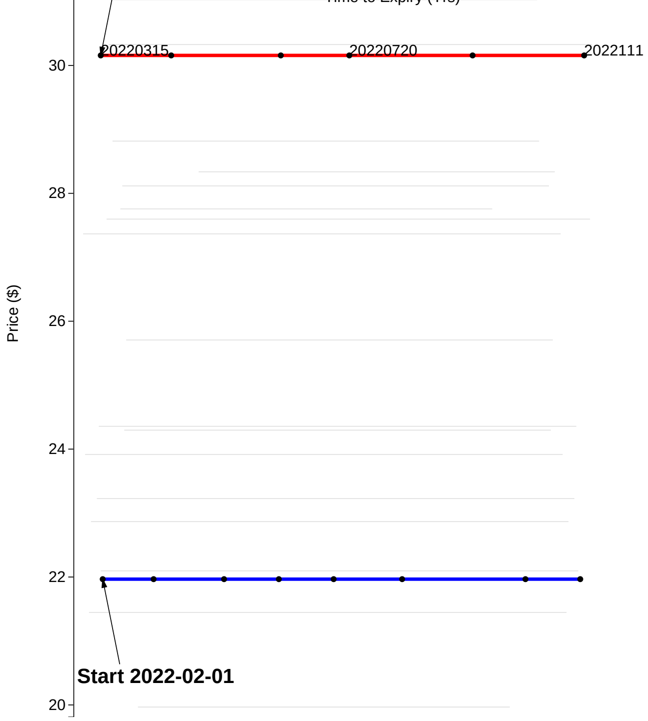

Front Month Dynamics:
E-Mini Dow Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

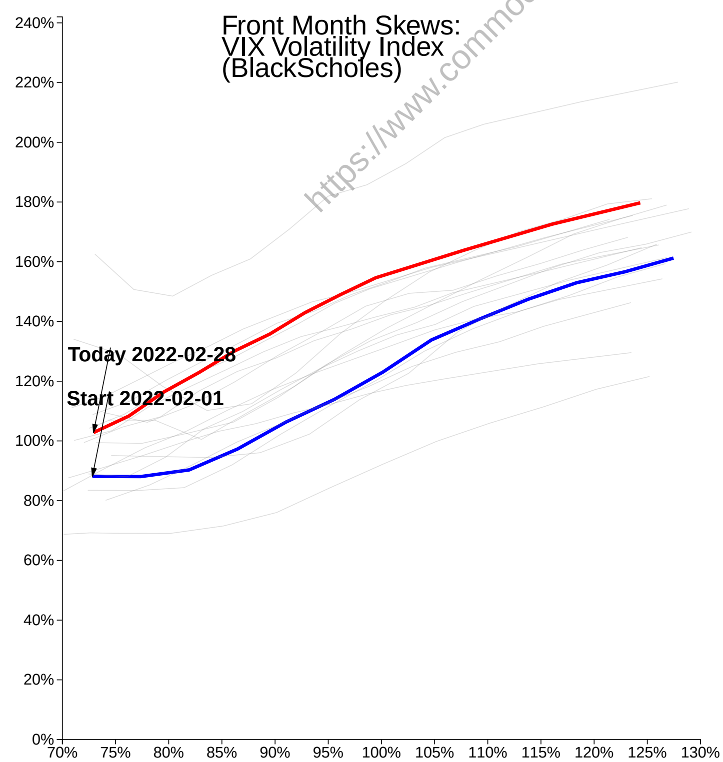

Price ($)
Start 2022-02-01
Today 2022-02-28
20220318
20220617
20220916


Front Month Skews:
E-Mini Dow Options
(Black)
Today 2022-02-28
Start 2022-02-01
https://www.commodityvol.com

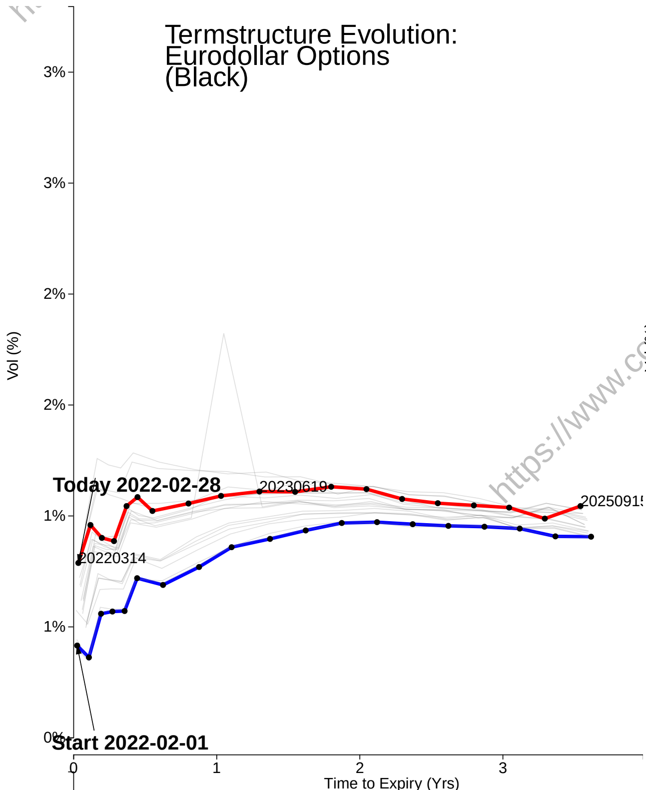

Termstructure Evolution:
VIX Volatility Index
(BlackScholes)
Today 2022-02-28
20220315
20220720
2022111
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)

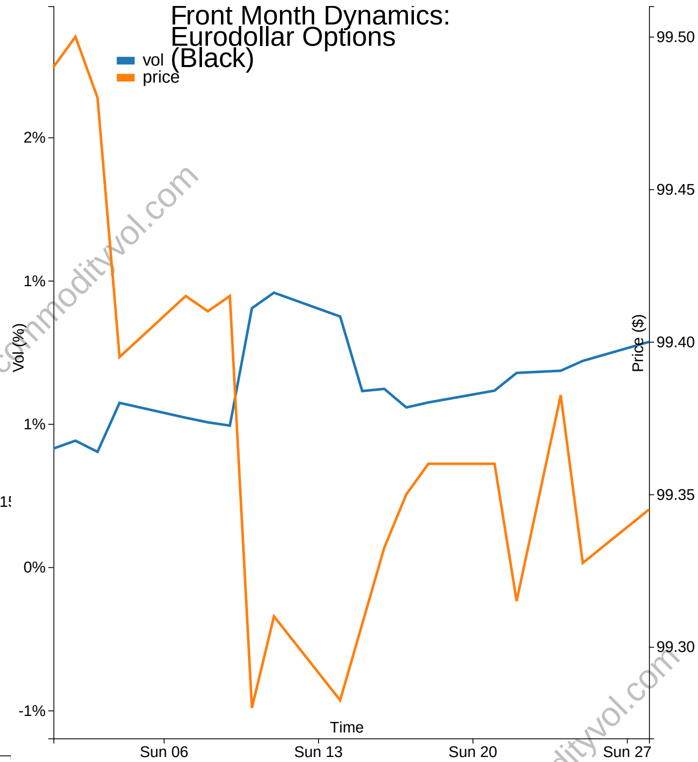

Front Month Dynamics:
VIX Volatility Index
(BlackScholes)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

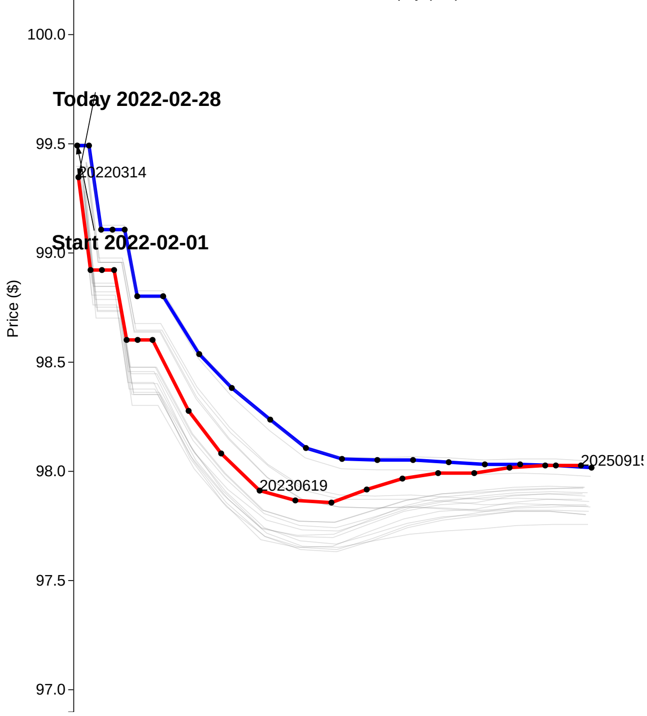

Today 2022-02-28
20220315
20220720
2022111
Start 2022-02-01
Price ($)

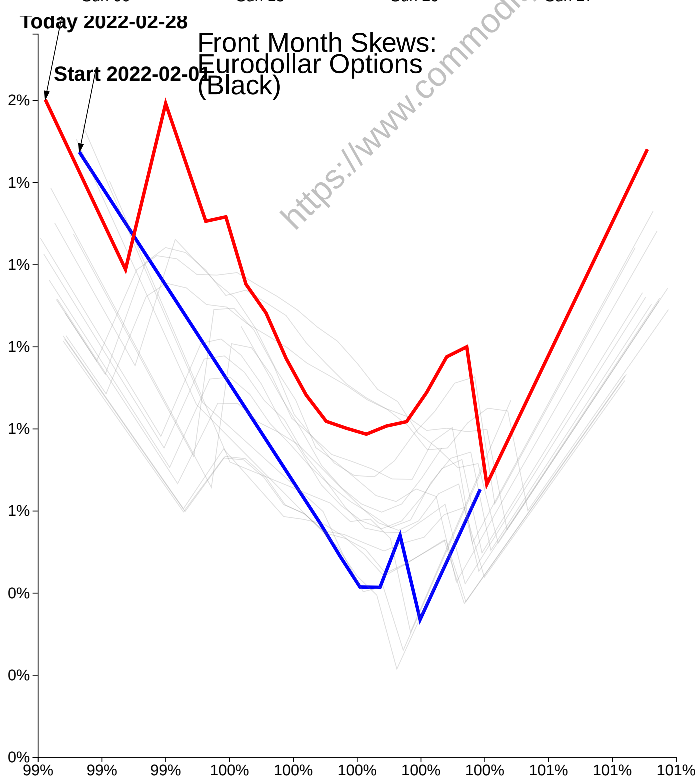

Front Month Skews:
VIX Volatility Index
(BlackScholes)
Today 2022-02-28
Start 2022-02-01

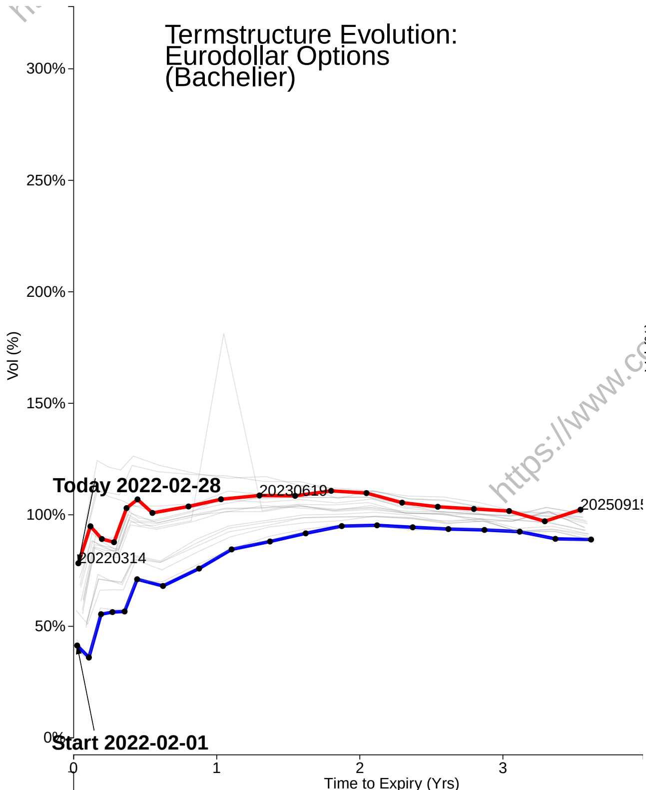
Fixed Income and STIRS

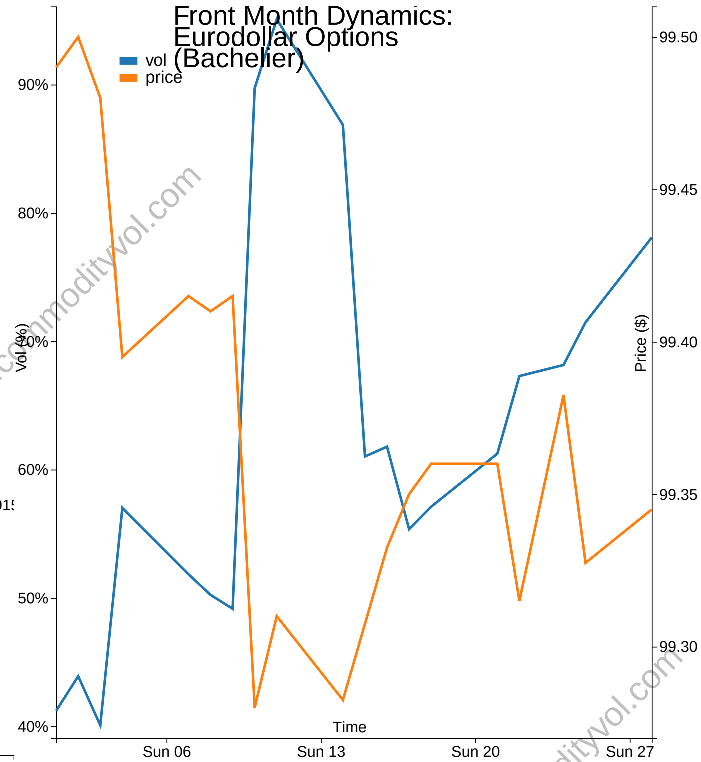

Termstructure Evolution:
Eurodollar Options
(Black)
Vol (%)
Time to Expiry (Yrs)
Today 2022-02-28
Start 2022-02-01
20220314
20230619
2025091

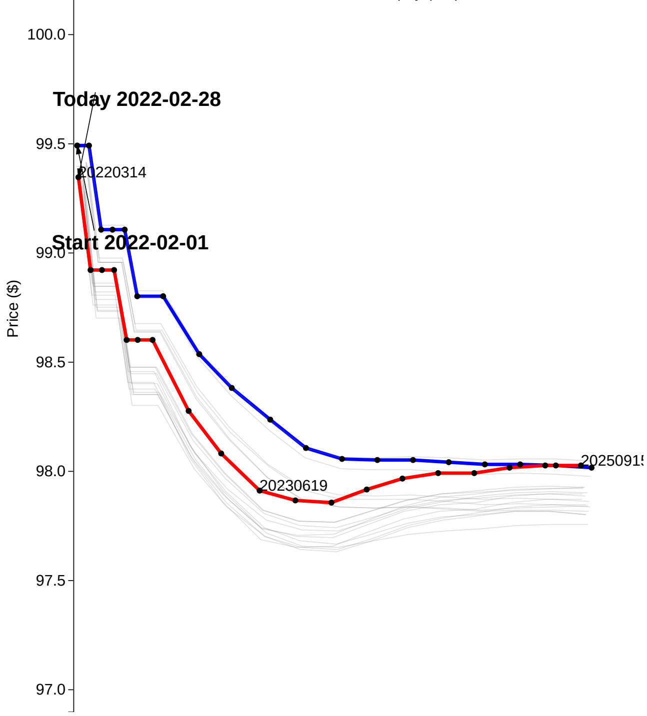

Front Month Dynamics:
Eurodollar Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

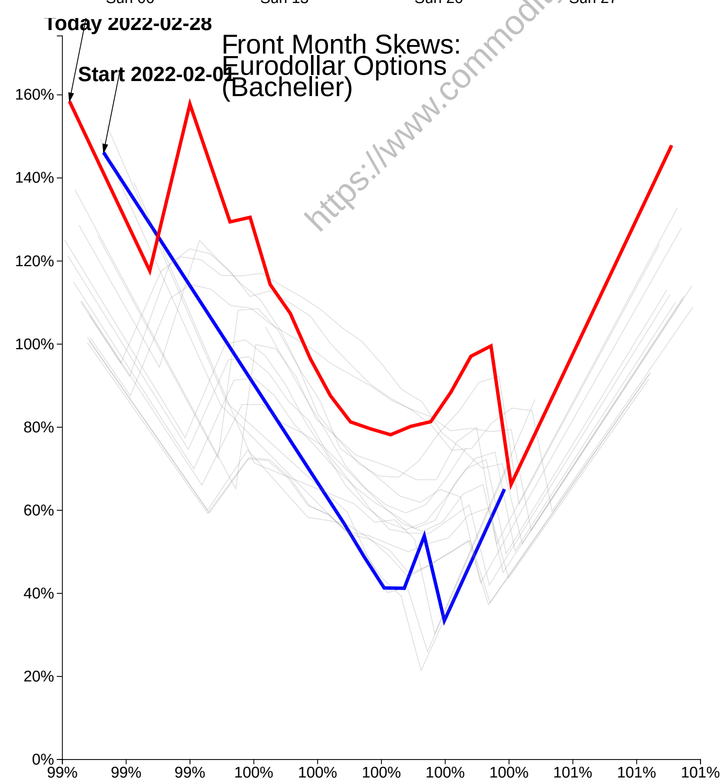

Price ($)
Today 2022-02-28
Start 2022-02-01
20220314
20230619
2025091

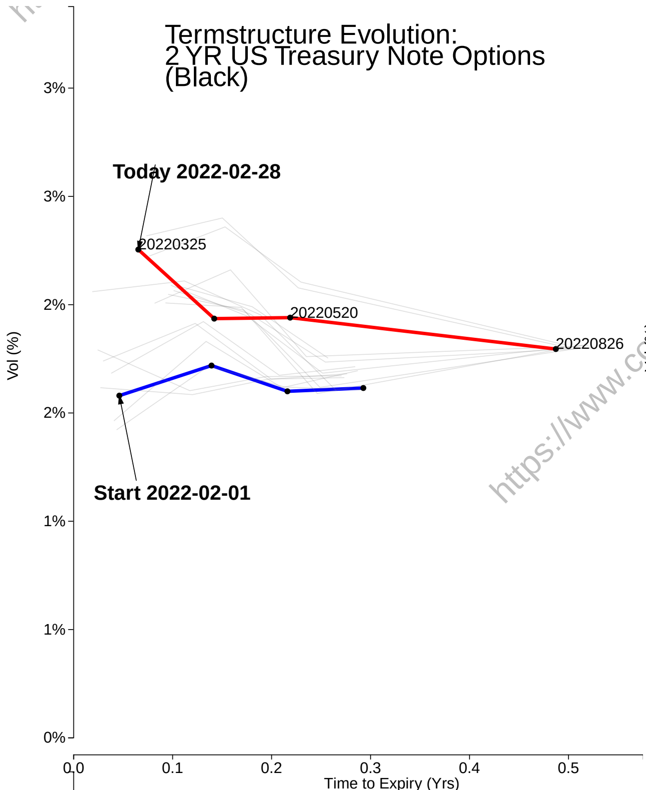

Front Month Skews:
Eurodollar Options
(Black)
Today 2022-02-28
Start 2022-02-01

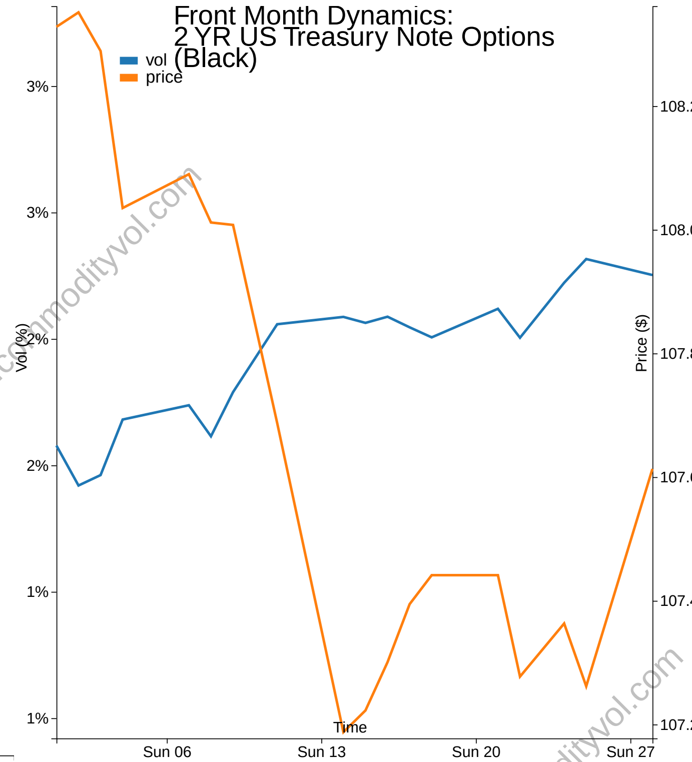

Termstructure Evolution:
Eurodollar Options
(Bachelier)
Today 2022-02-28
Start 2022-02-01
20220314
20230619
20250915
Vol (%)
Time to Expiry (Yrs)
0%
50%
100%
150%
200%
250%
300%
0
1
2
3
https://www.commodityvol.com

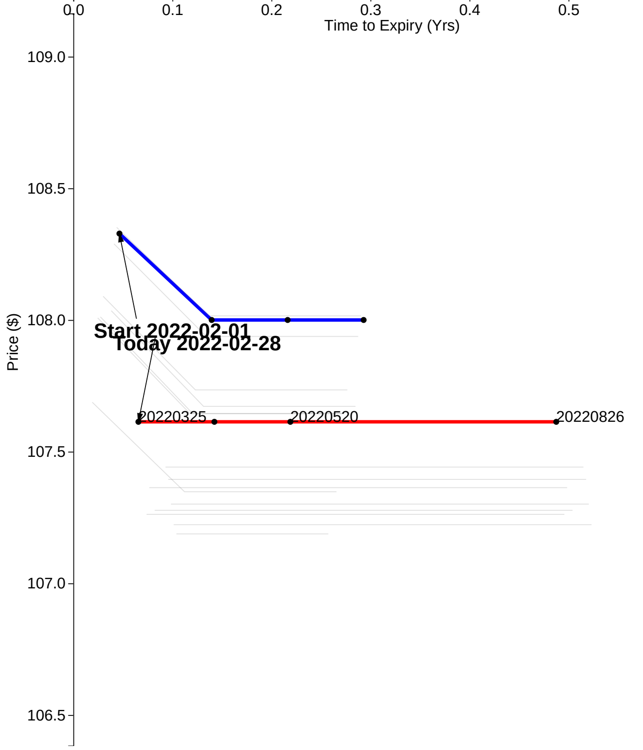

Front Month Dynamics:
Eurodollar Options
(Bachelier)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
40%
50%
60%
70%
80%
90%
99.30
99.35
99.40
99.45
99.50
https://www.commodityvol.com

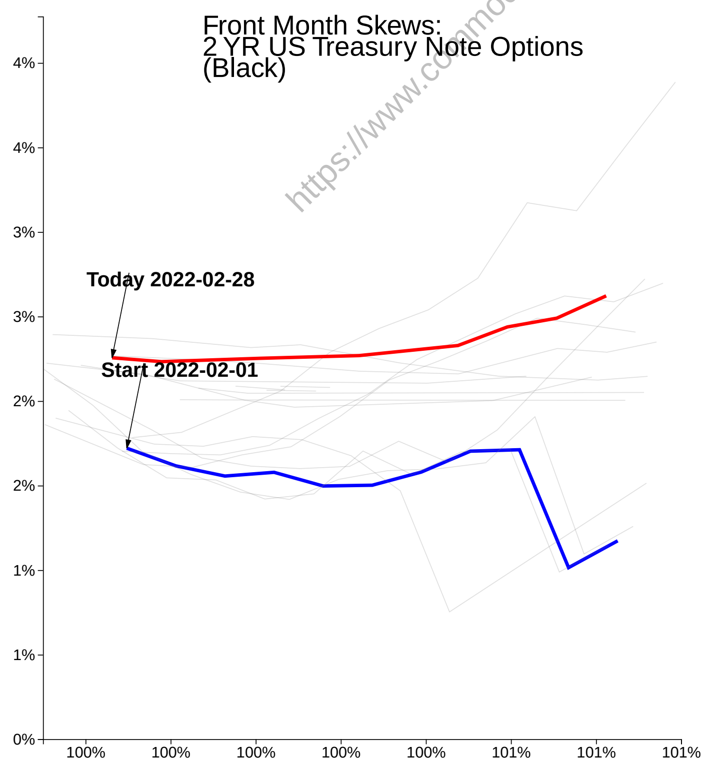

Today 2022-02-28
Start 2022-02-01
20220314
20230619
20250915
Price ($)
97.0
97.5
98.0
98.5
99.0
99.5
100.0

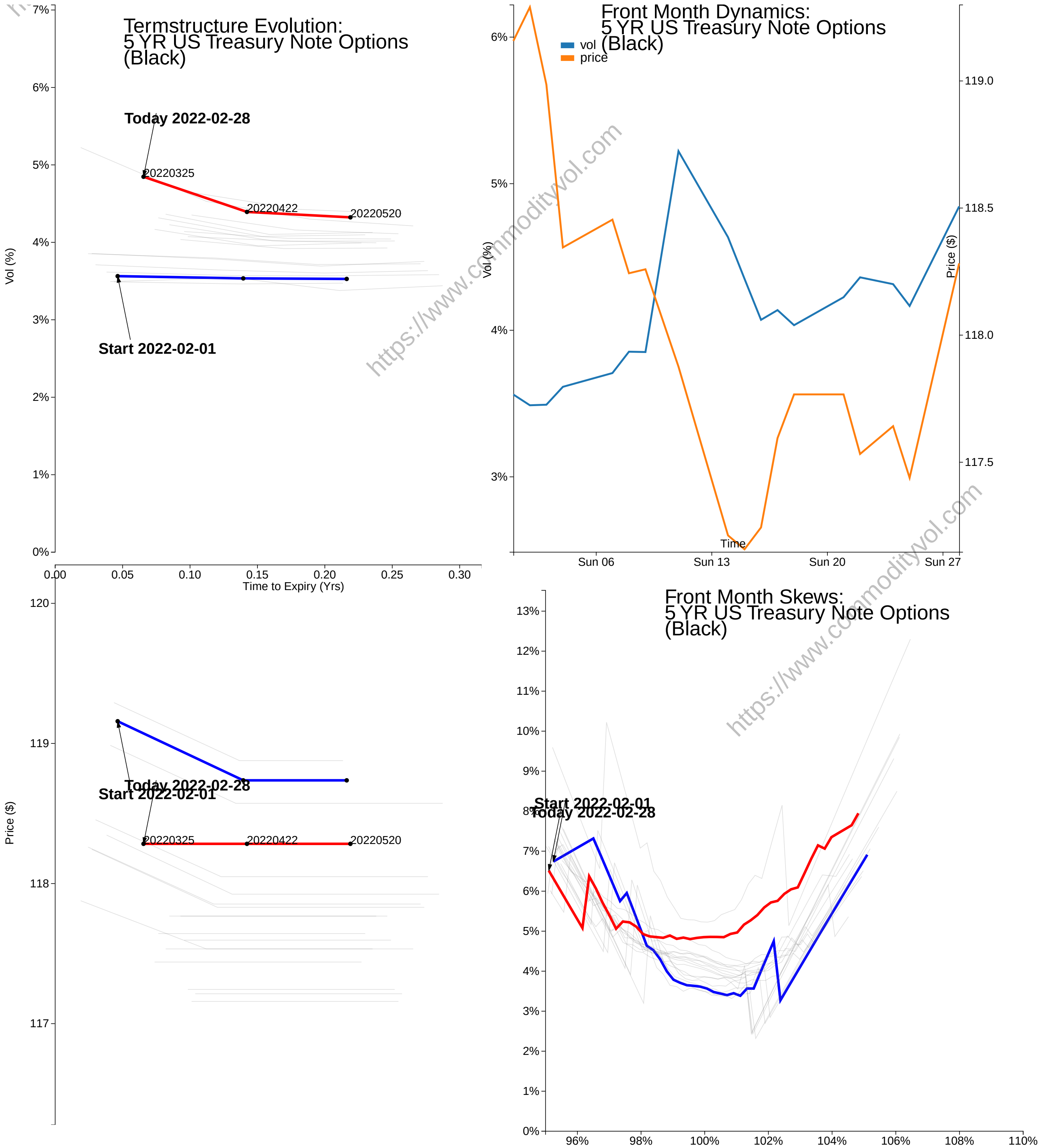

Front Month Skews:
Eurodollar Options
(Bachelier)
Today 2022-02-28
Start 2022-02-05
0%
20%
40%
60%
80%
100%
120%
140%
160%
99%
99%
99%
100%
100%
100%
100%
100%
101%
101%
101%
https://www.commodityvol.com

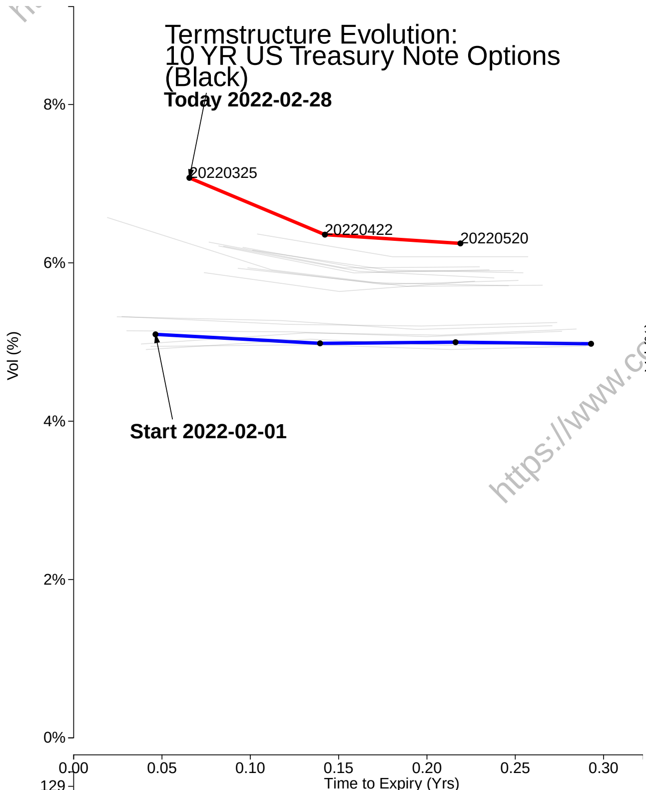

Termstructure Evolution:
2 YR US Treasury Note Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220520
20220826
Vol (%)
Time to Expiry (Yrs)
0%
1%
1%
2%
2%
3%
3%
0.0
0.1
0.2
0.3
0.4
0.5

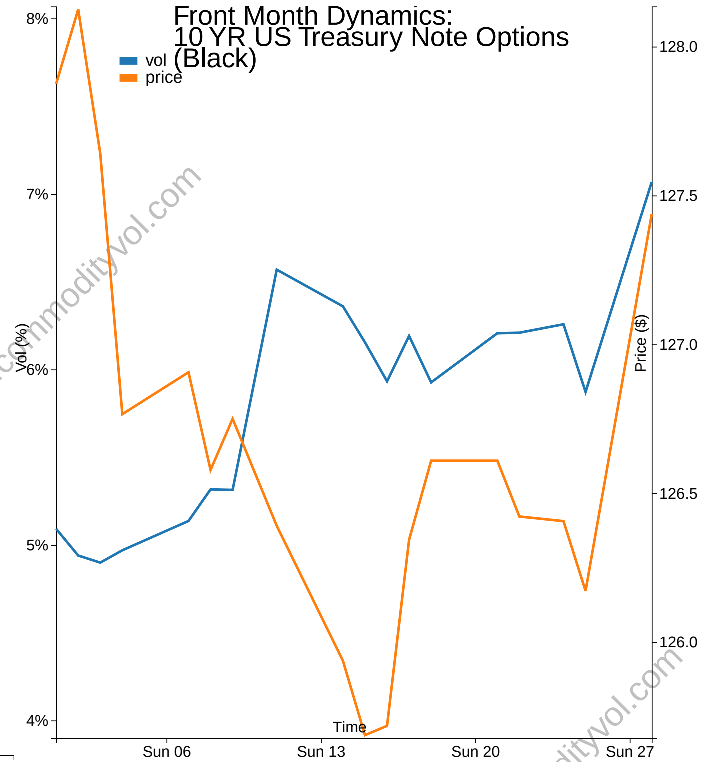

Front Month Dynamics:
2 YR US Treasury Note Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
1%
1%
2%
2%
3%
3%
107.2
107.4
107.6
107.8
108.0
108.2

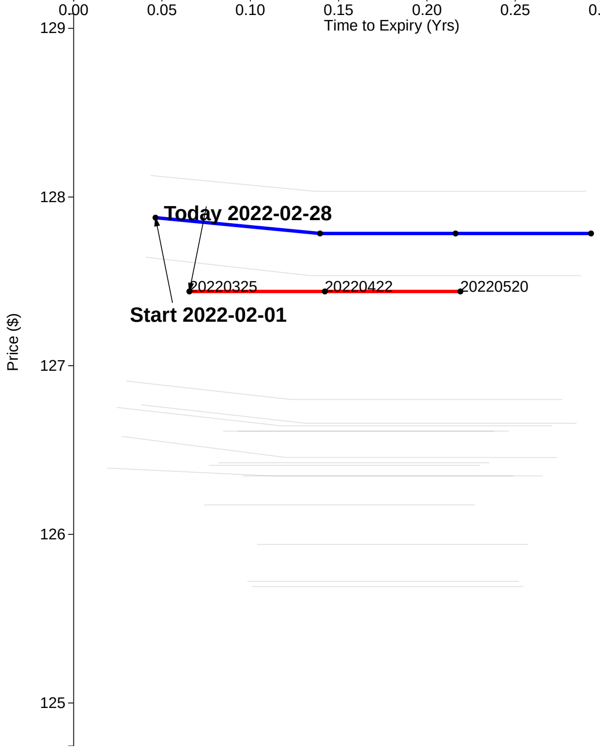

Start 2022-02-01
Today 2022-02-28
20220325
20220520
20220826
Price ($)
106.5
107.0
107.5
108.0
108.5
109.0

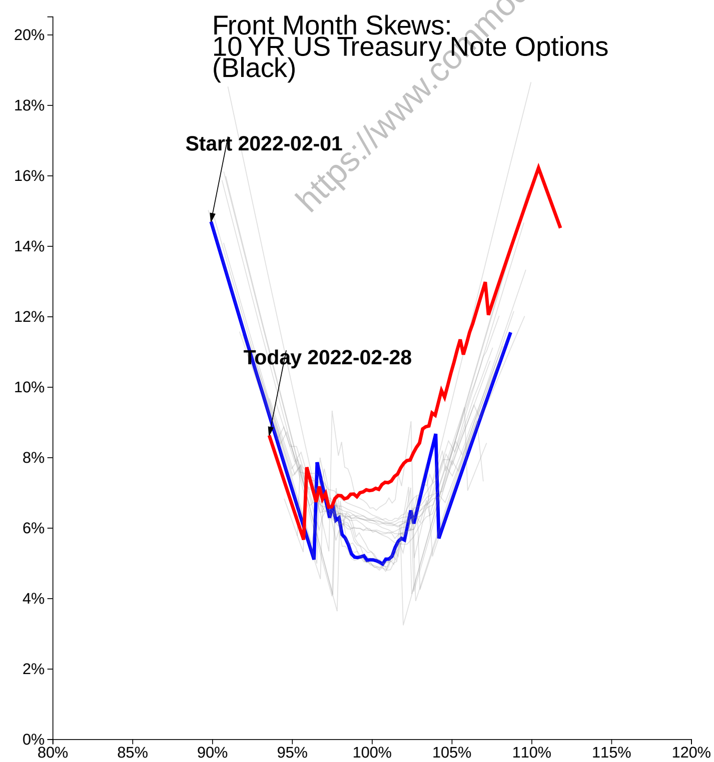

Front Month Skews:
2 YR US Treasury Note Options
(Black)
Today 2022-02-28
Start 2022-02-01
0%
1%
1%
2%
2%
3%
3%
4%
4%
100%
100%
100%
100%
100%
101%
101%
101%

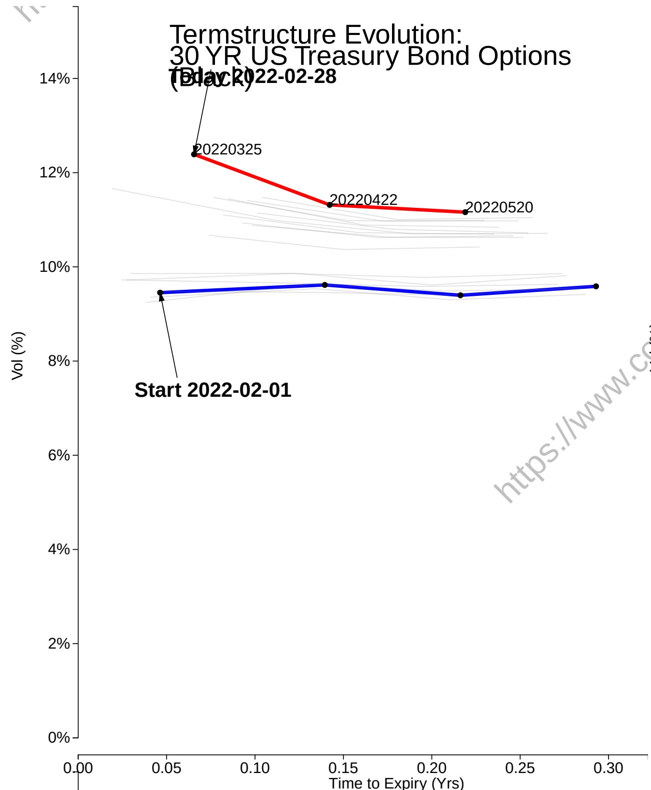

Termstructure Evolution:
5 YR US Treasury Note Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220422
20220520
Vol (%)
Time to Expiry (Yrs)
Front Month Dynamics:
5 YR US Treasury Note Options
(Black)
vol
price
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
Front Month Skews:
5 YR US Treasury Note Options
(Black)

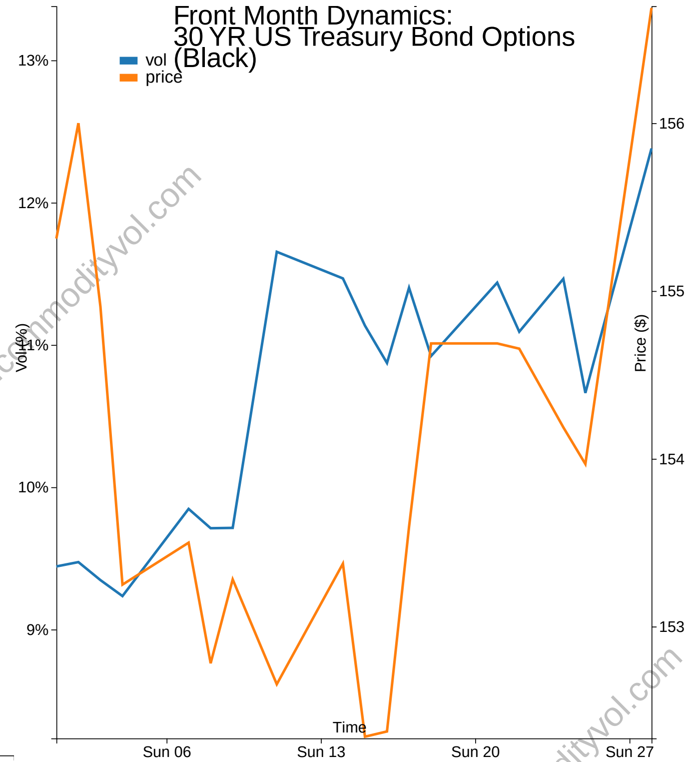

Termstructure Evolution:
10 YR US Treasury Note Options
(Black)
Today 2022-02-28
20220325
20220422
20220520
Start 2022-02-01
Vol (%)
8%
6%
4%
2%
0%
0.00
0.05
0.10
0.15
0.20
0.25
0.30
Time to Expiry (Yrs)

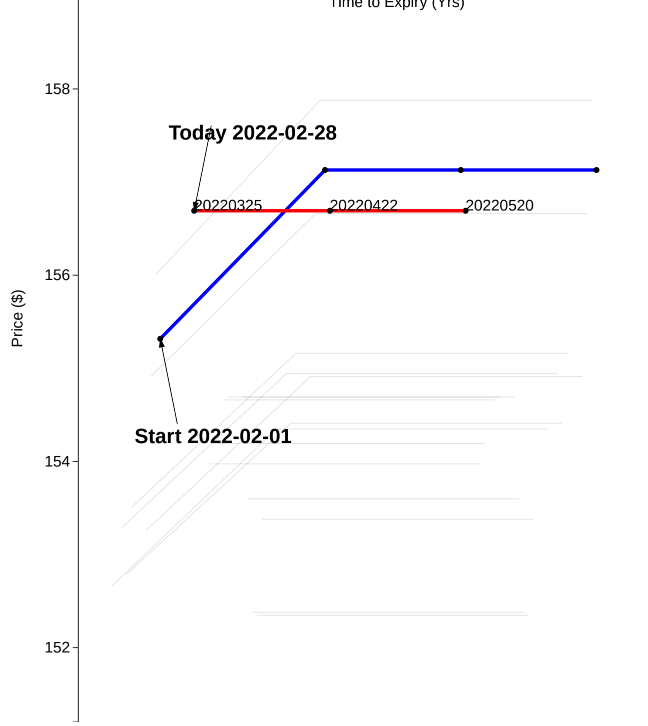

Front Month Dynamics:
10 YR US Treasury Note Options
(Black)
vol
price
Vol (%)
Price ($)
8%
7%
6%
5%
4%
128.0
127.5
127.0
126.5
126.0
Time
Sun 06
Sun 13
Sun 20
Sun 27

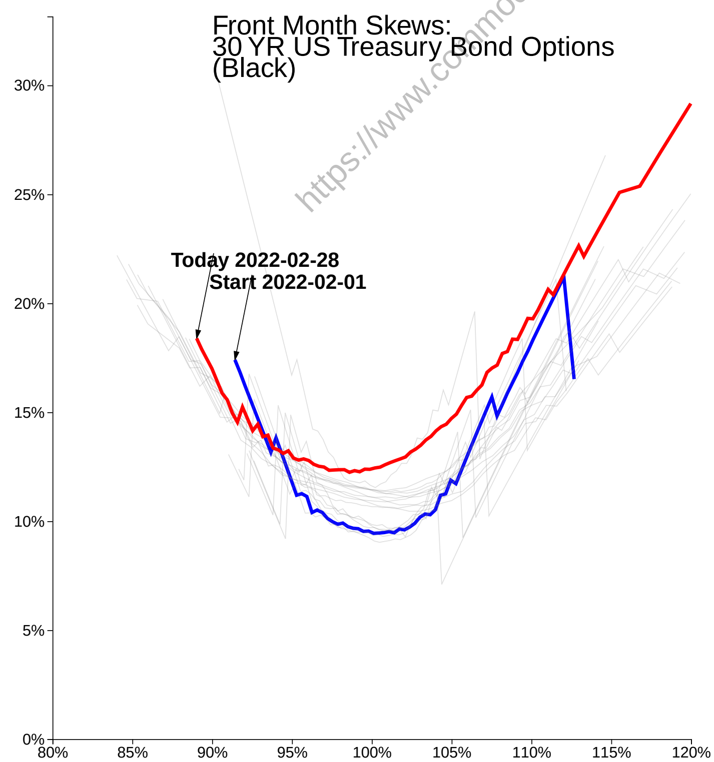

Today 2022-02-28
20220325
20220422
20220520
Start 2022-02-01
Price ($)
129
128
127
126
125

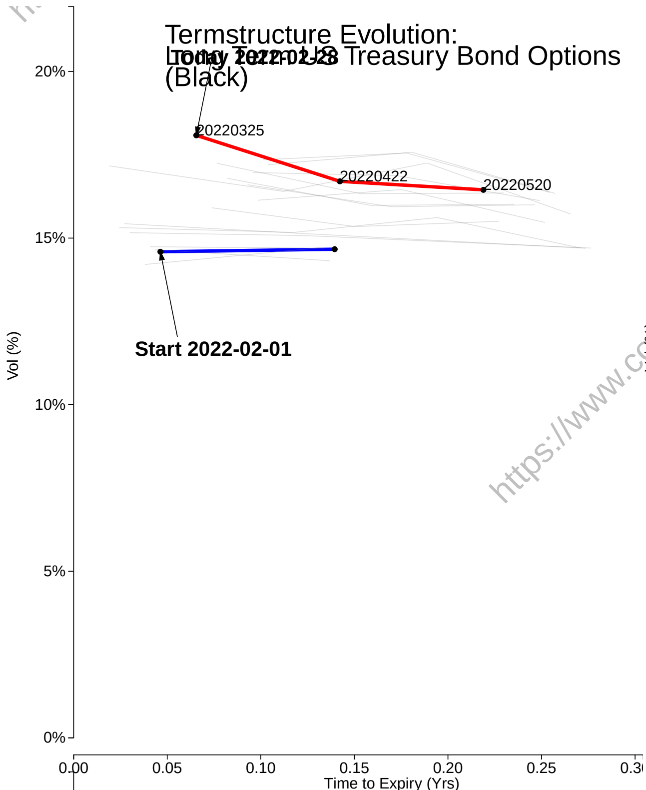

Front Month Skews:
10 YR US Treasury Note Options
(Black)
Start 2022-02-01
Today 2022-02-28
20%
18%
16%
14%
12%
10%
8%
6%
4%
2%
0%
80%
85%
90%
95%
100%
105%
110%
115%
120%

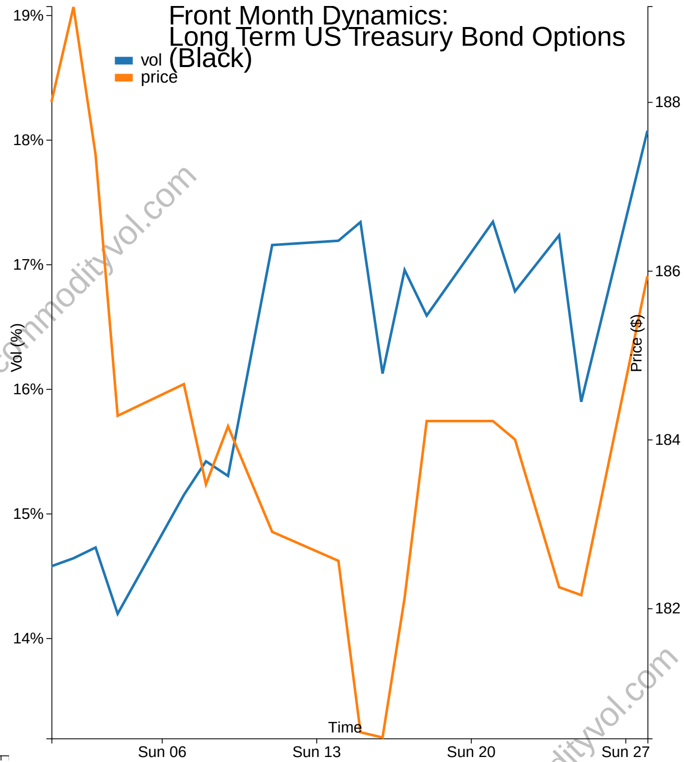

Termstructure Evolution:
30 YR US Treasury Bond Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220422
20220520
Vol (%)
Time to Expiry (Yrs)

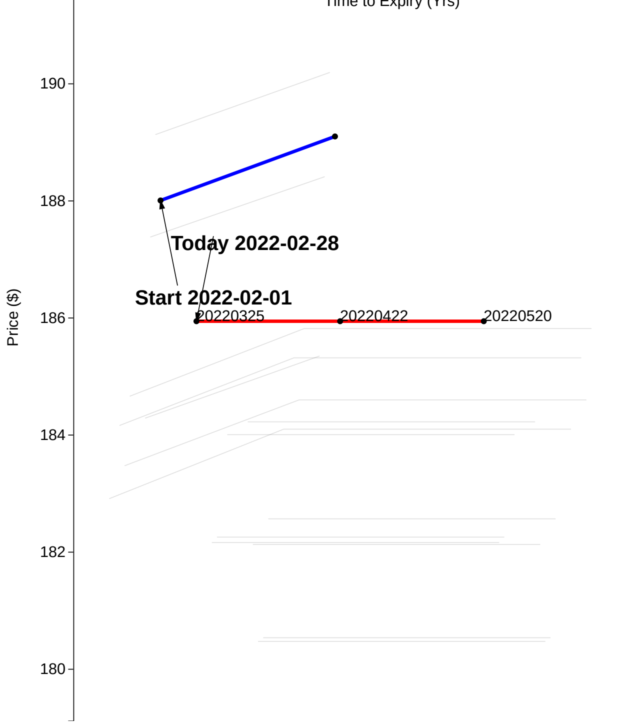

Front Month Dynamics:
30 YR US Treasury Bond Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

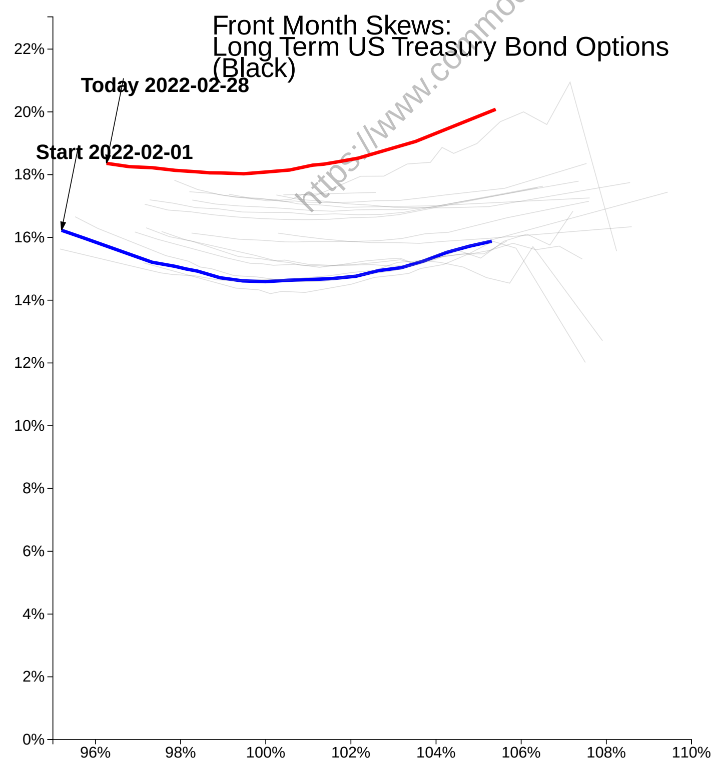

Today 2022-02-28
Start 2022-02-01
20220325
20220422
20220520
Price ($)


Front Month Skews:
30 YR US Treasury Bond Options
(Black)
Today 2022-02-28
Start 2022-02-01

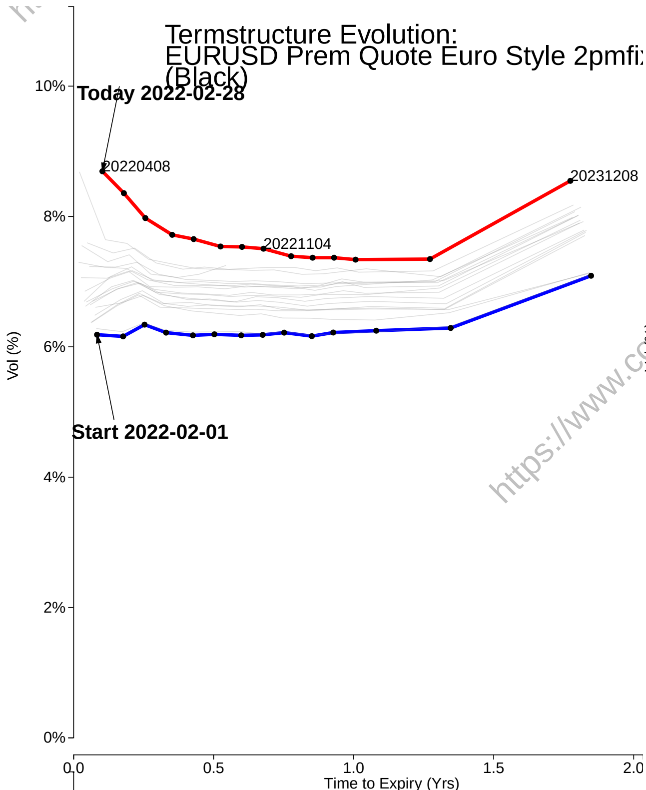

Termstructure Evolution:
Long Term US Treasury Bond Options
(Black)
Today 2022-02-28
20220325
20220422
20220520
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)
0%
5%
10%
15%
20%
0.00
0.05
0.10
0.15
0.20
0.25


Front Month Dynamics:
Long Term US Treasury Bond Options
(Black)
vol
price
Vol (%)
Price ($)
Time
14%
15%
16%
17%
18%
19%
182
184
186
188
Sun 06
Sun 13
Sun 20
Sun 27

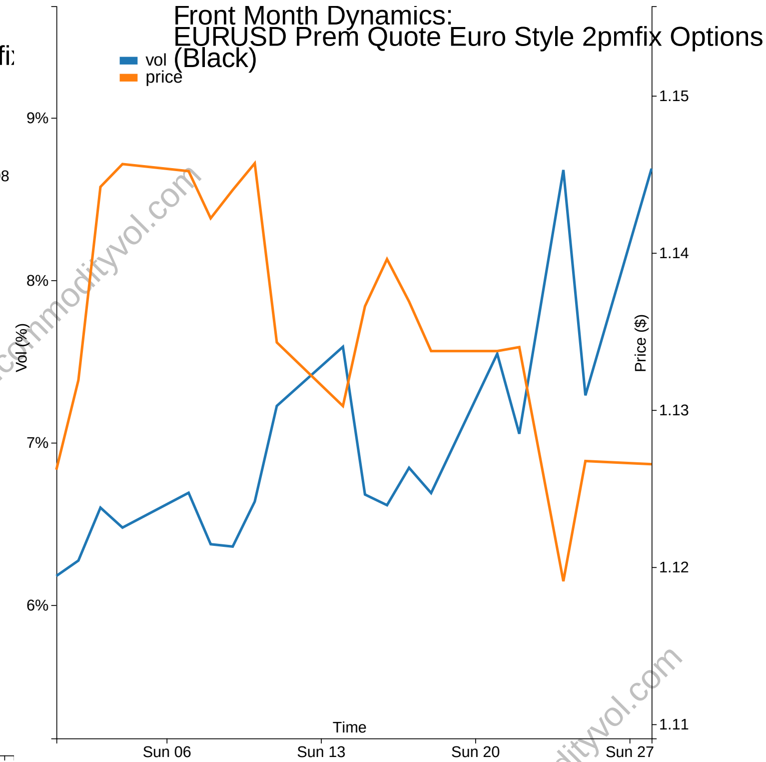

Today 2022-02-28
Start 2022-02-01
20220325
20220422
20220520
Price ($)
180
182
184
186
188
190


Front Month Skews:
Long Term US Treasury Bond Options
(Black)
Today 2022-02-28
Start 2022-02-01
0%
2%
4%
6%
8%
10%
12%
14%
16%
18%
20%
22%
96%
98%
100%
102%
104%
106%
108%
110%

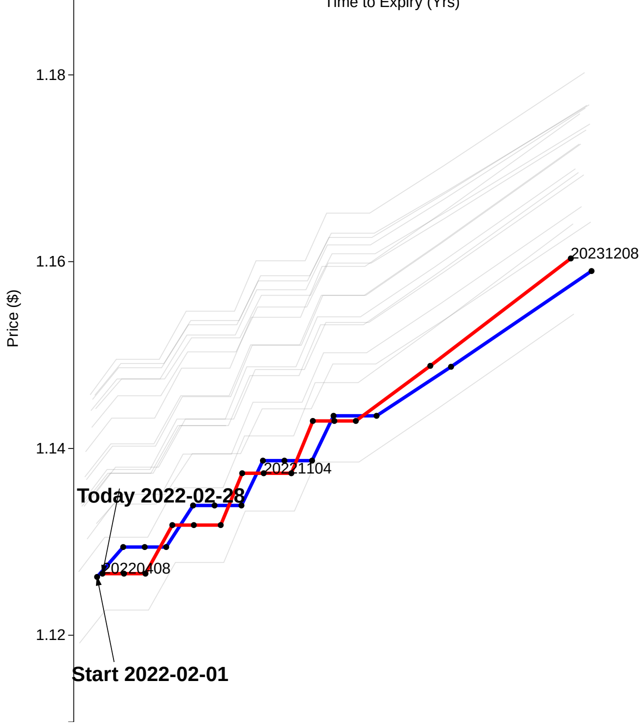
Foreign Exchange



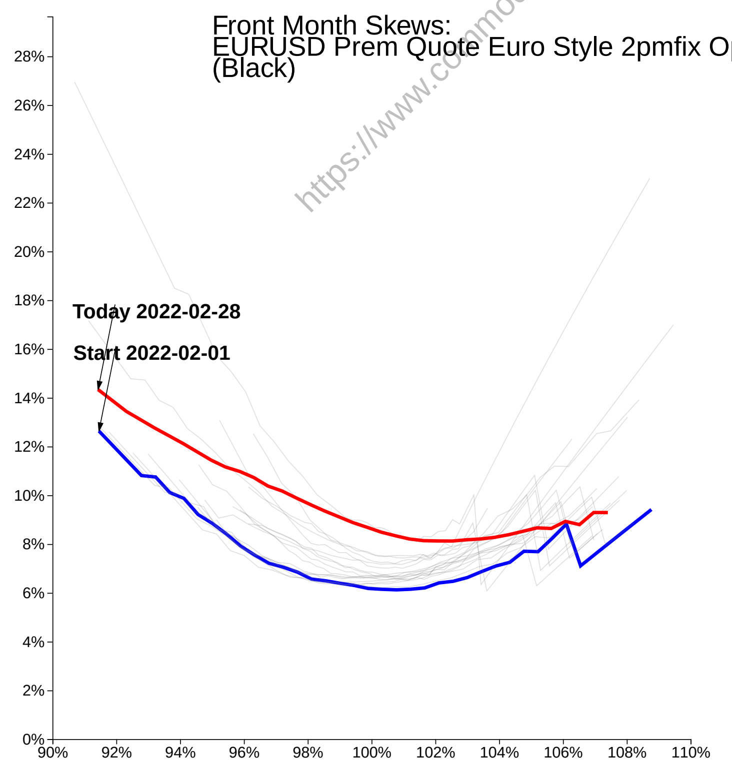
Termstructure Evolution:
EURUSD Prem Quote Euro Style 2pmfi
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20221104
20231208
Vol (%)
Time to Expiry (Yrs)



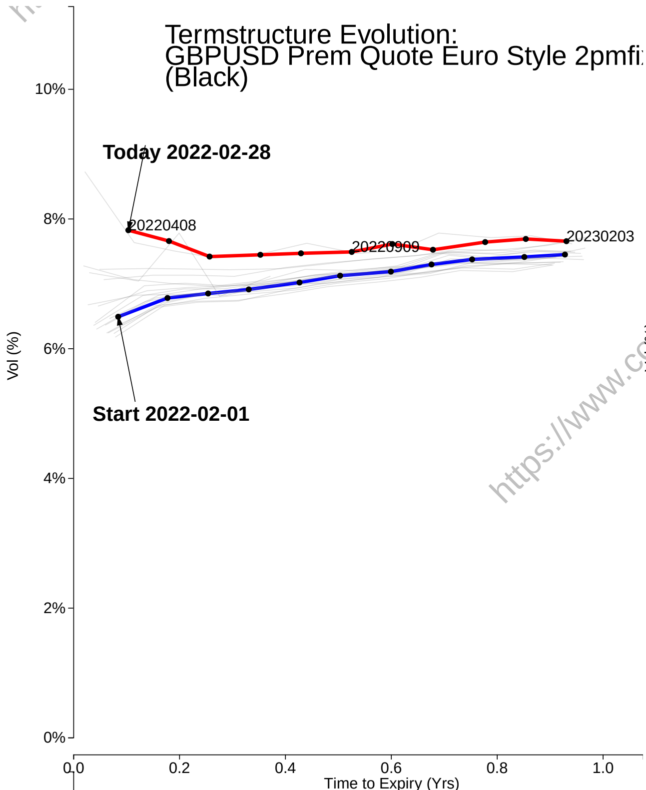
Front Month Dynamics:
EURUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

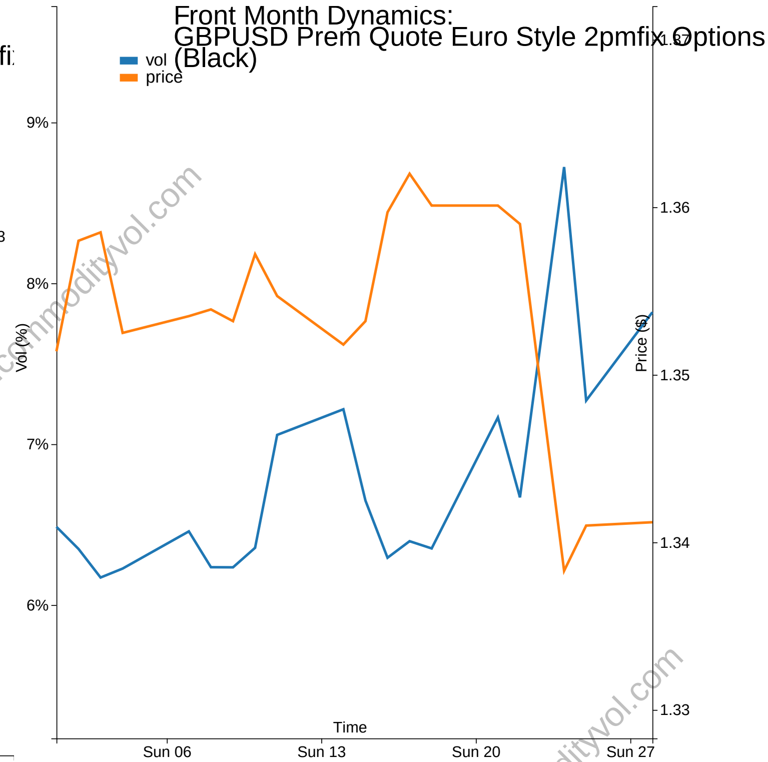


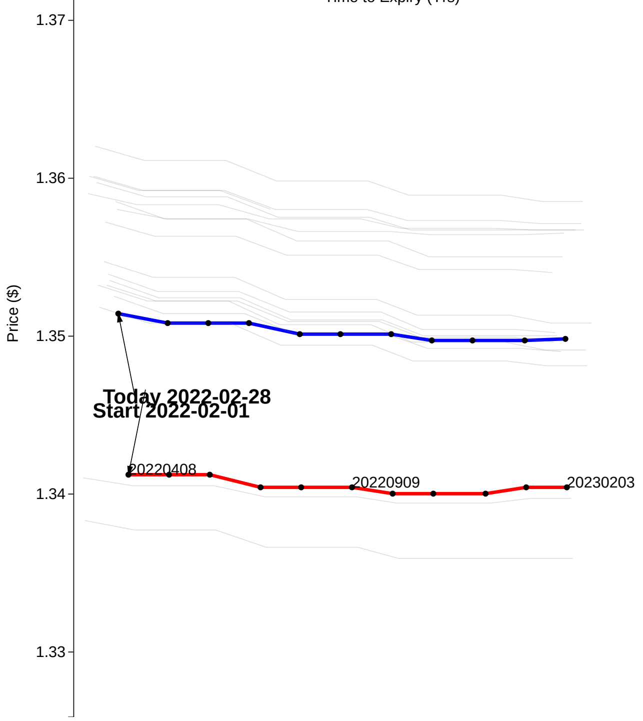
Today 2022-02-28
Start 2022-02-01
20220408
20221104
20231208
Price ($)

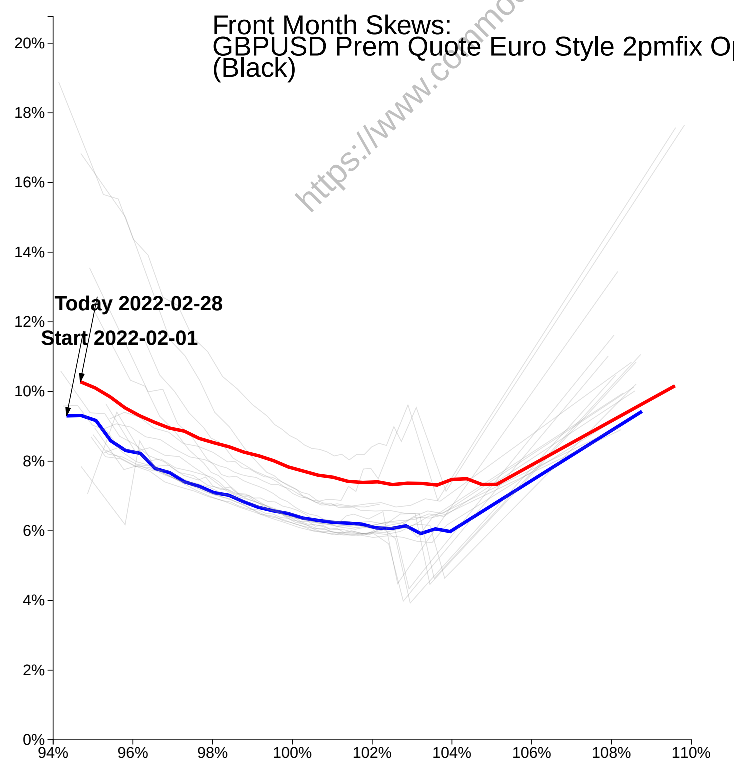


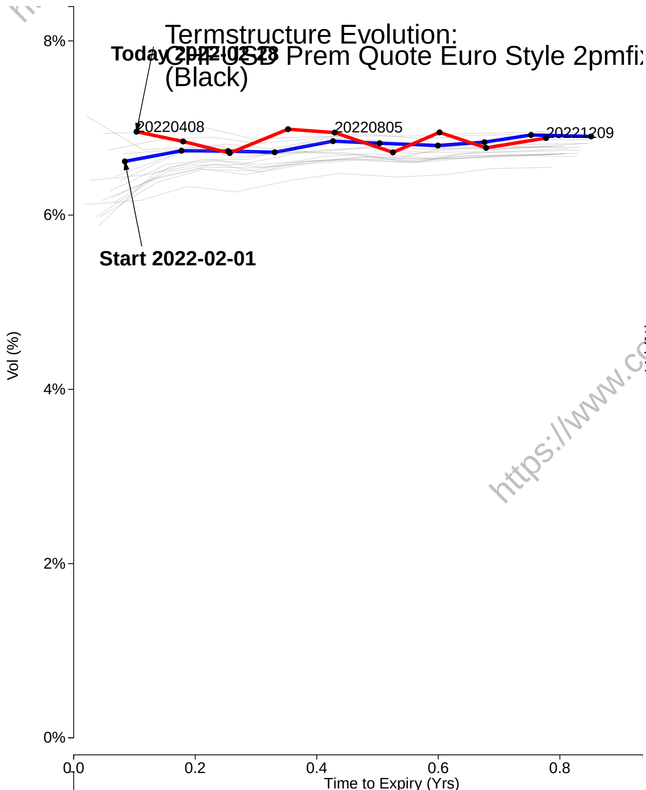
Front Month Skews:
EURUSD Prem Quote Euro Style 2pmfix O
(Black)
Today 2022-02-28
Start 2022-02-01

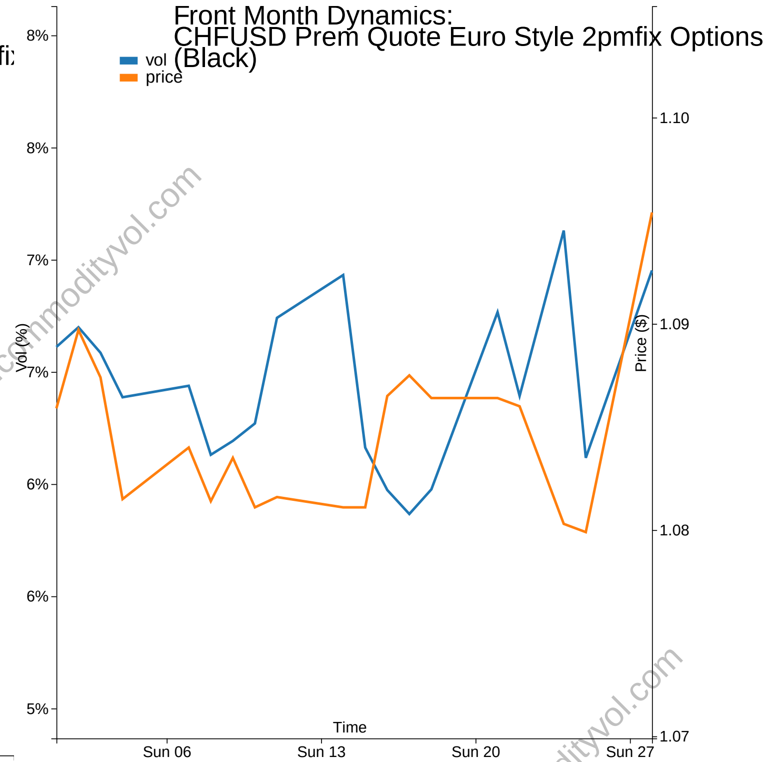

Termstructure Evolution:
GBPUSD Prem Quote Euro Style 2pmfi
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Vol (%)
Time to Expiry (Yrs)

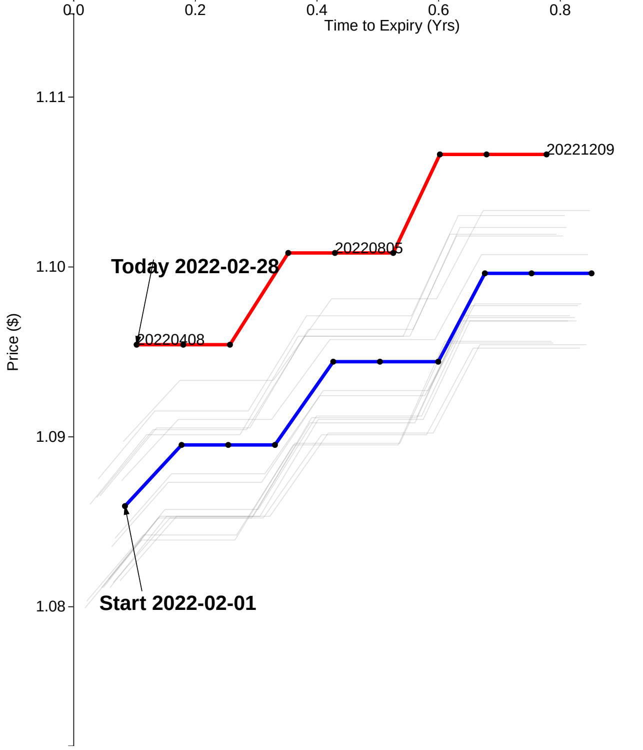

Front Month Dynamics:
GBPUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

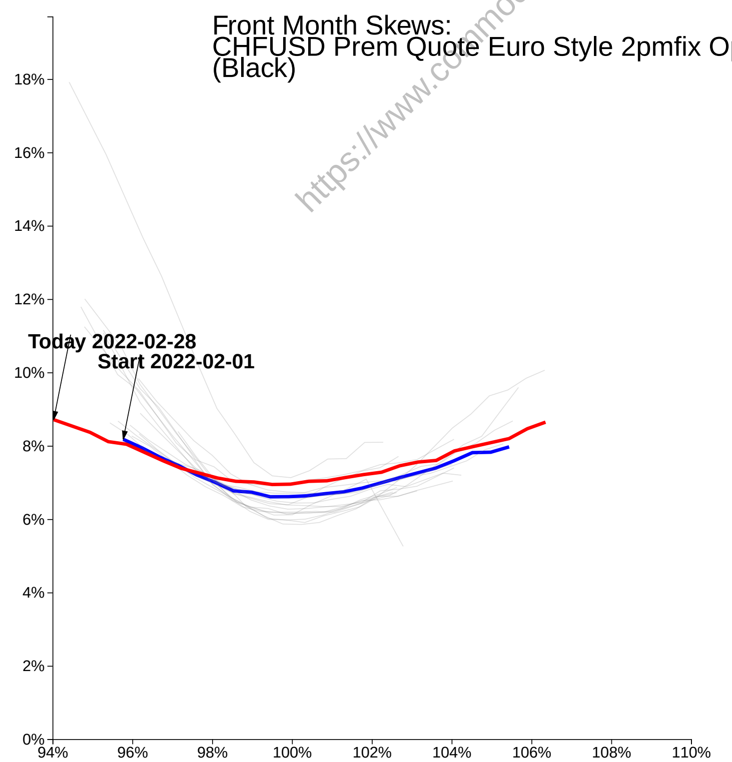

Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Price ($)

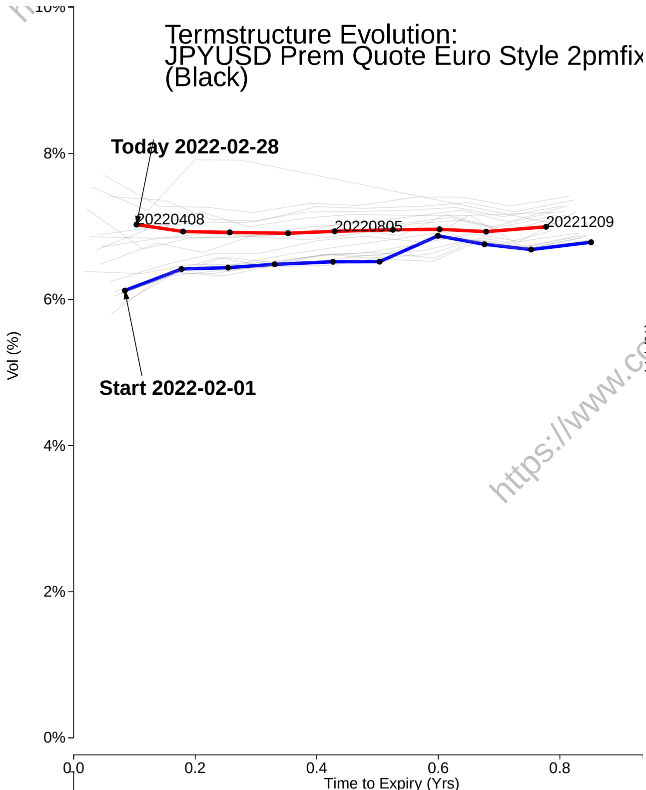

Front Month Skews:
GBPUSD Prem Quote Euro Style 2pmfix O
(Black)
Today 2022-02-28
Start 2022-02-01

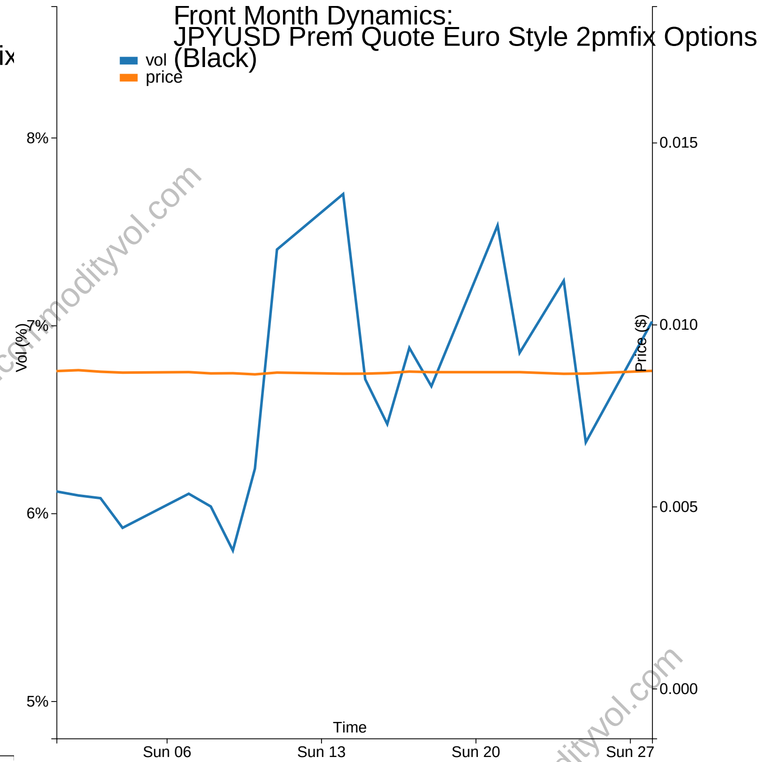

Termstructure Evolution:
CHFUSD Prem Quote Euro Style 2pmfix
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20220805
20221209
Vol (%)
Time to Expiry (Yrs)

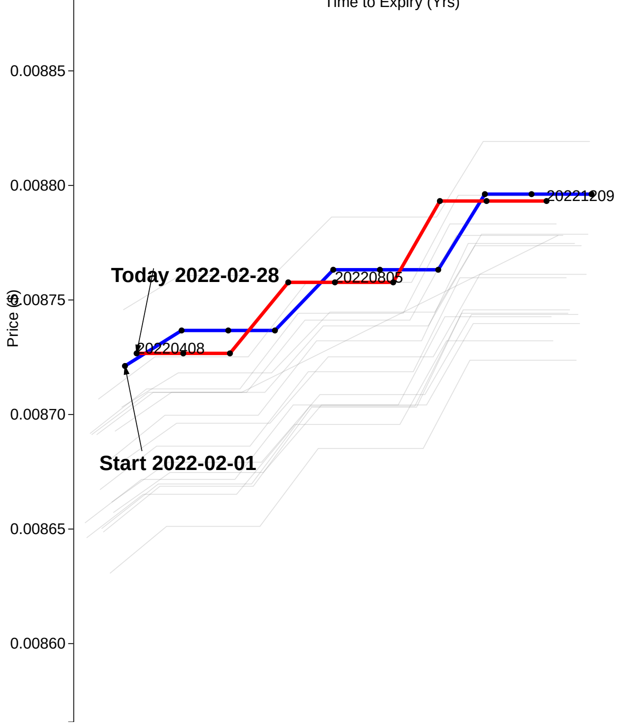

Front Month Dynamics:
CHFUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

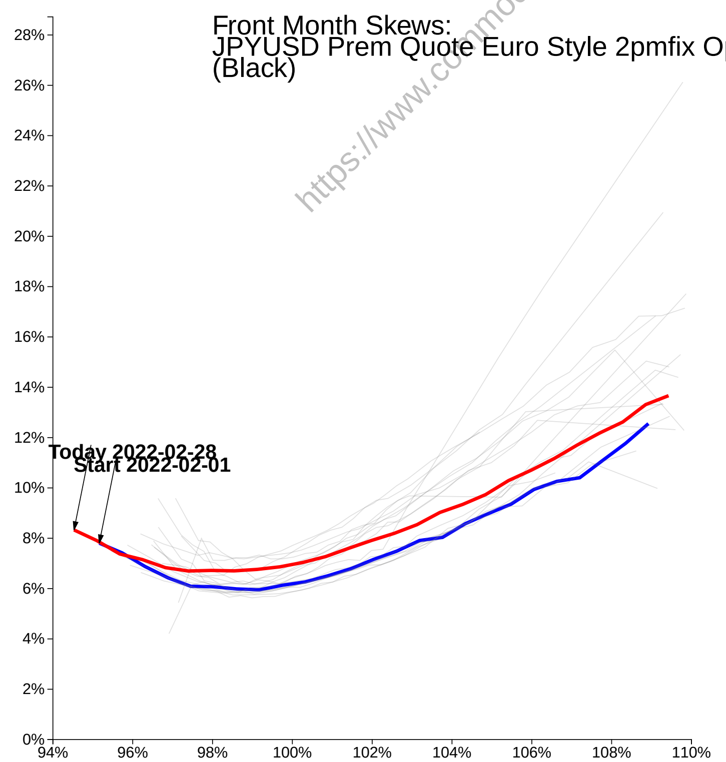

Today 2022-02-28
Start 2022-02-01
20220408
20220805
20221209
Price ($)

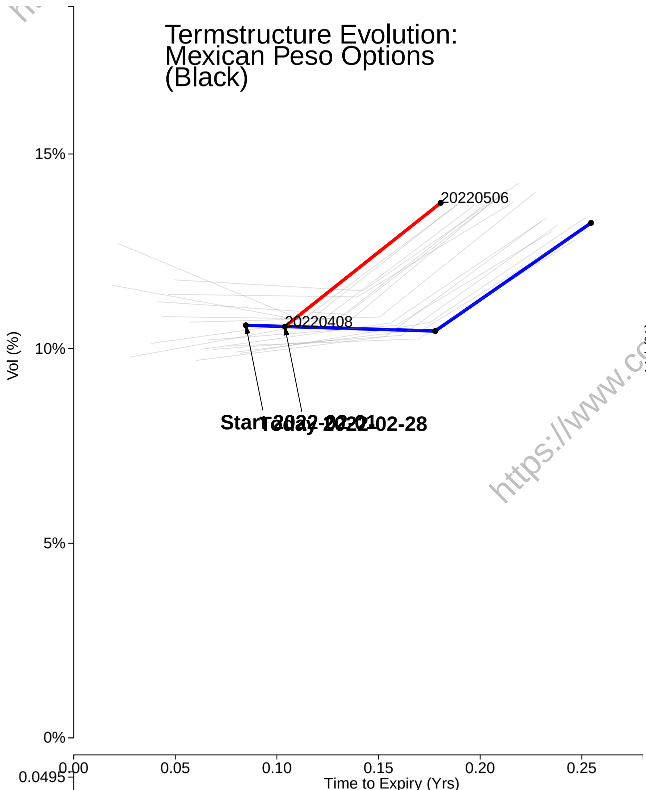

Front Month Skews:
CHFUSD Prem Quote Euro Style 2pmfix O
(Black)
Today 2022-02-28
Start 2022-02-01


Termstructure Evolution:
JPYUSD Prem Quote Euro Style 2pmfix
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20220805
20221209
Vol (%)
Time to Expiry (Yrs)

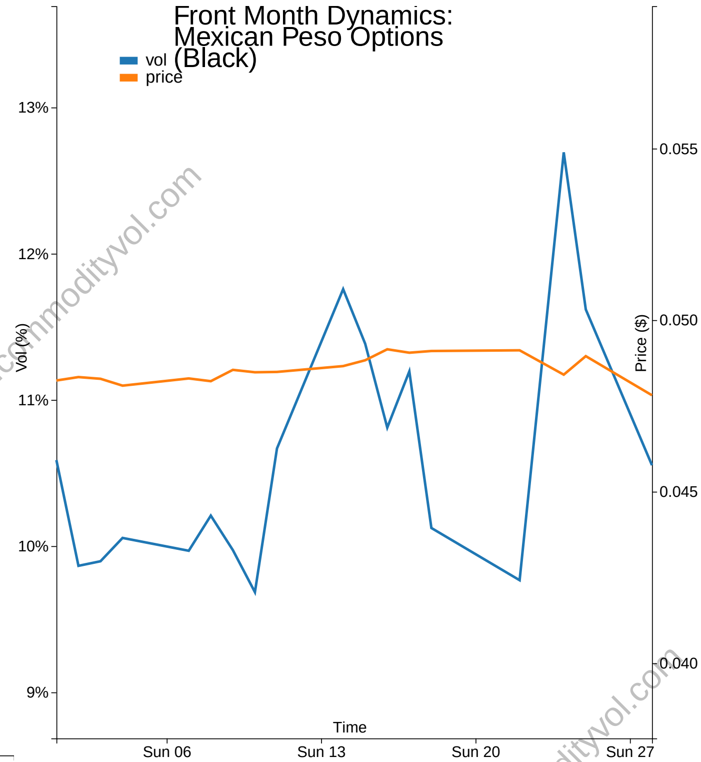

Front Month Dynamics:
JPYUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27


Today 2022-02-28
Start 2022-02-01
20220408
20220805
20221209
Price ($)

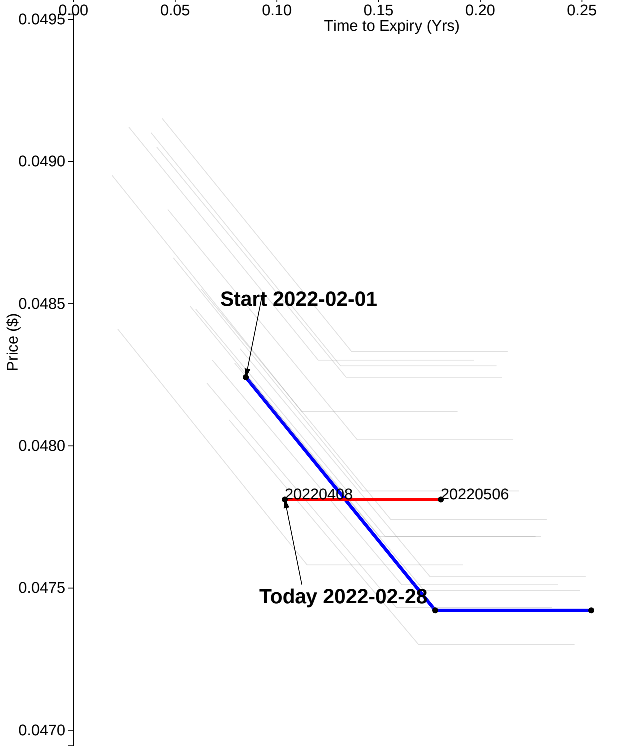

Front Month Skews:
JPYUSD Prem Quote Euro Style 2pmfix Op
(Black)
Today 2022-02-28
Start 2022-02-01



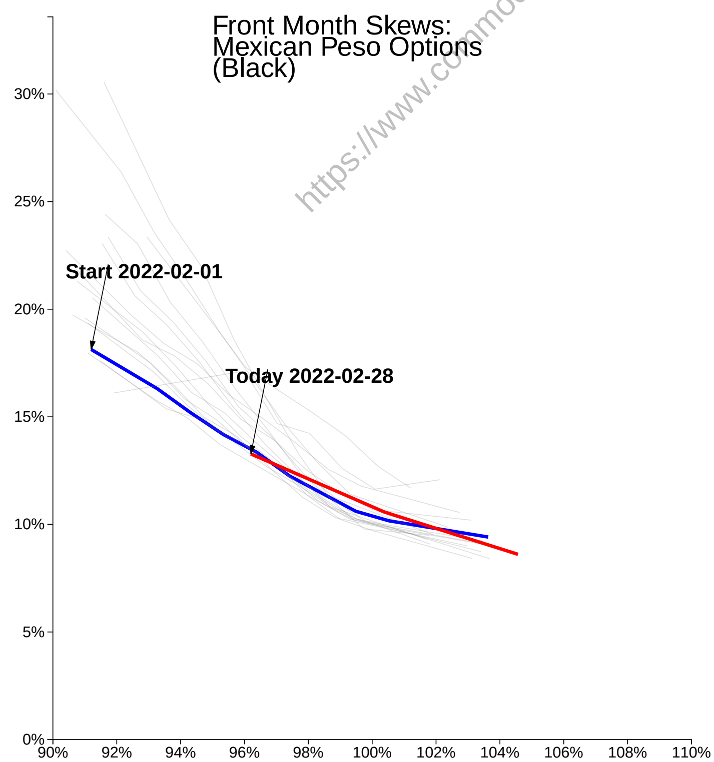
Termstructure Evolution:
Mexican Peso Options
(Black)
15%
10%
5%
0%
Vol (%)
20220506
20220408
Start 2022-02-01
Today 2022-02-28
0.00
0.05
0.10
0.15
0.20
0.25
Time to Expiry (Yrs)



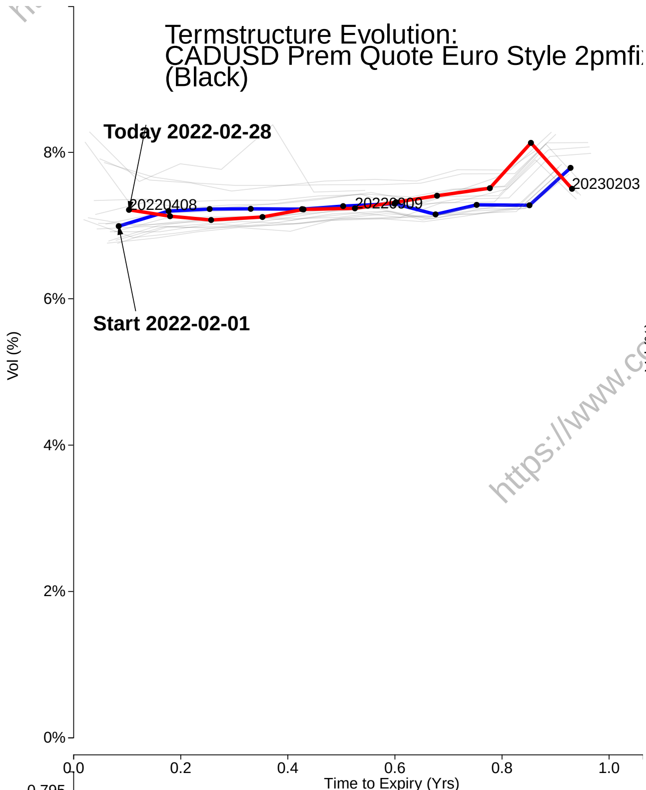
Front Month Dynamics:
Mexican Peso Options
(Black)
vol
price
13%
12%
11%
10%
9%
Vol (%)
0.055
0.050
0.045
0.040
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

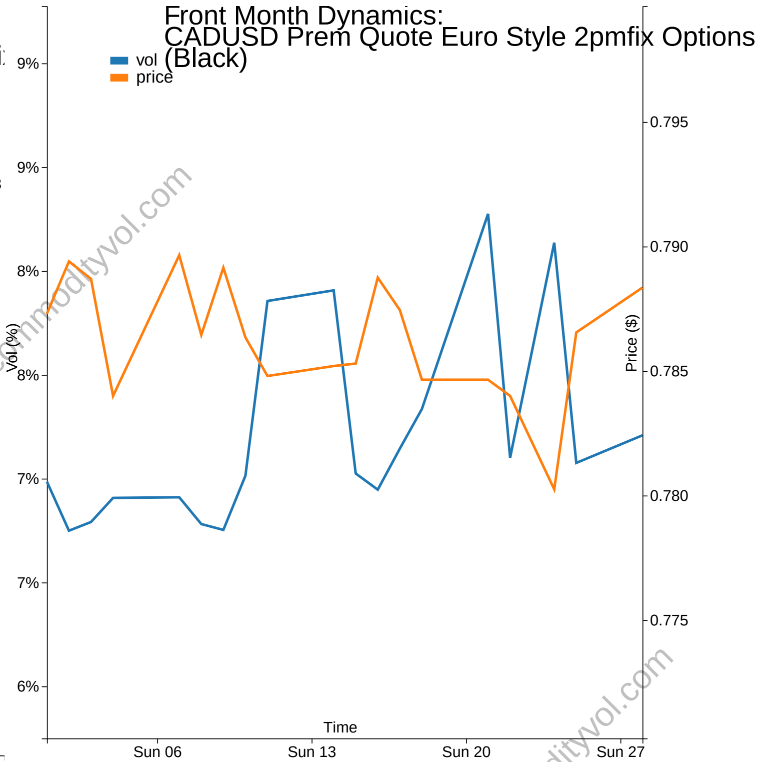


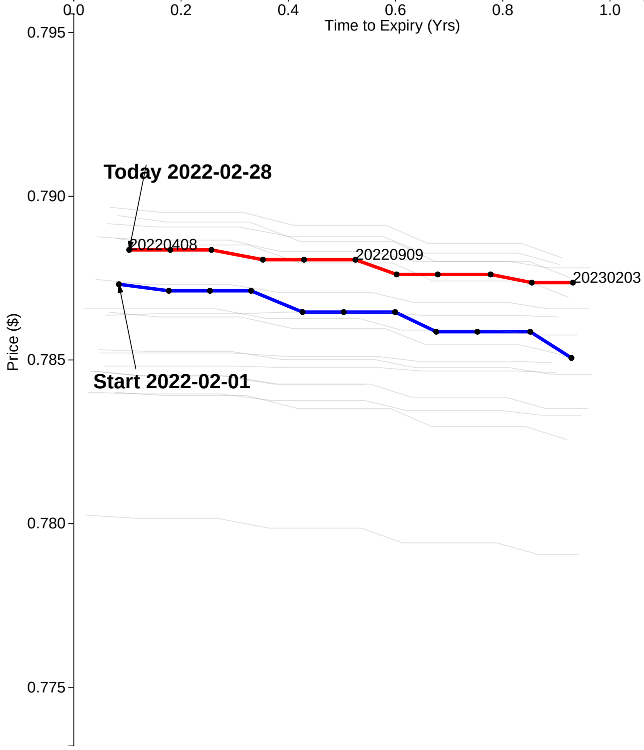
0.0495
0.0490
0.0485
0.0480
0.0475
0.0470
Price ($)
Start 2022-02-01
20220408
20220506
Today 2022-02-28

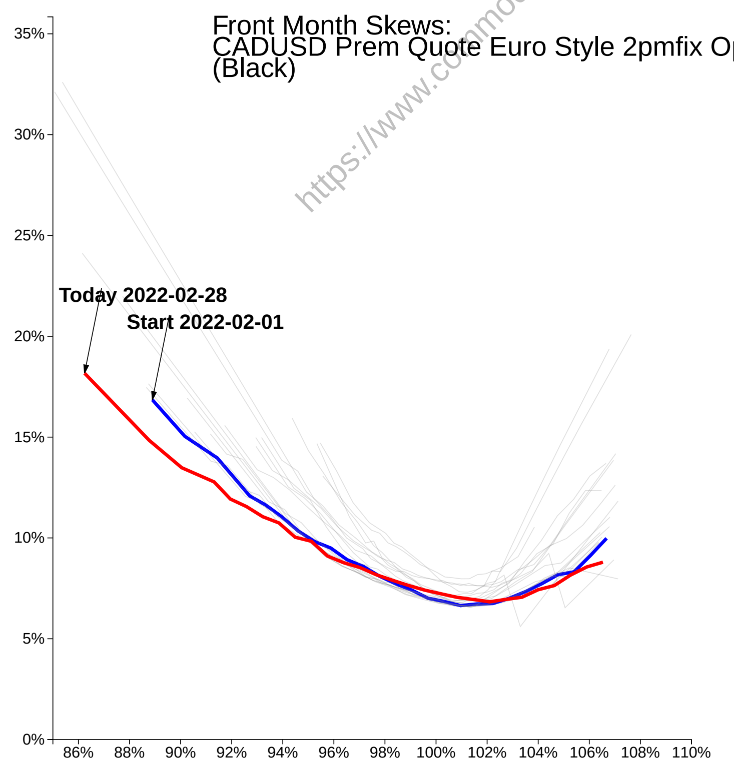


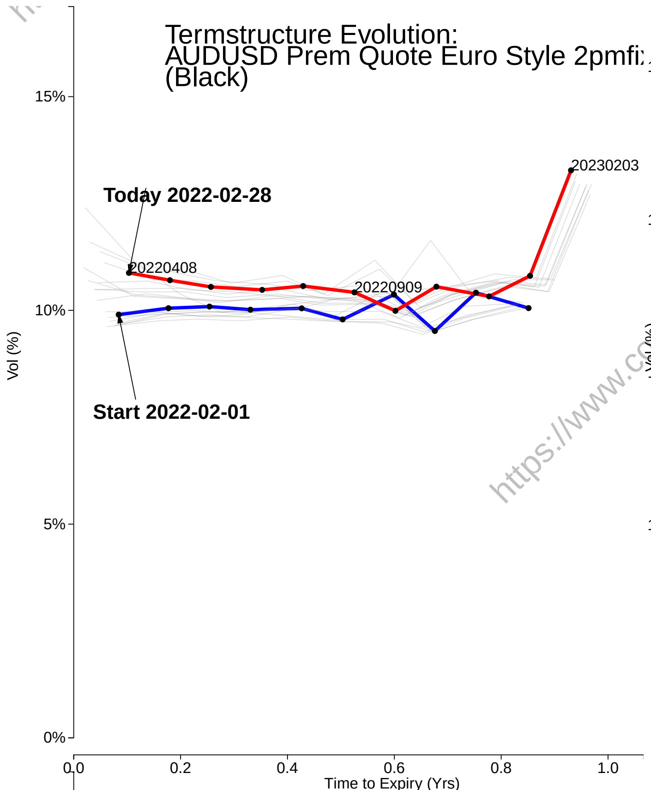
Front Month Skews:
Mexican Peso Options
(Black)
30%
25%
20%
15%
10%
5%
0%
Start 2022-02-01
Today 2022-02-28
90%
92%
94%
96%
98%
100%
102%
104%
106%
108%
110%

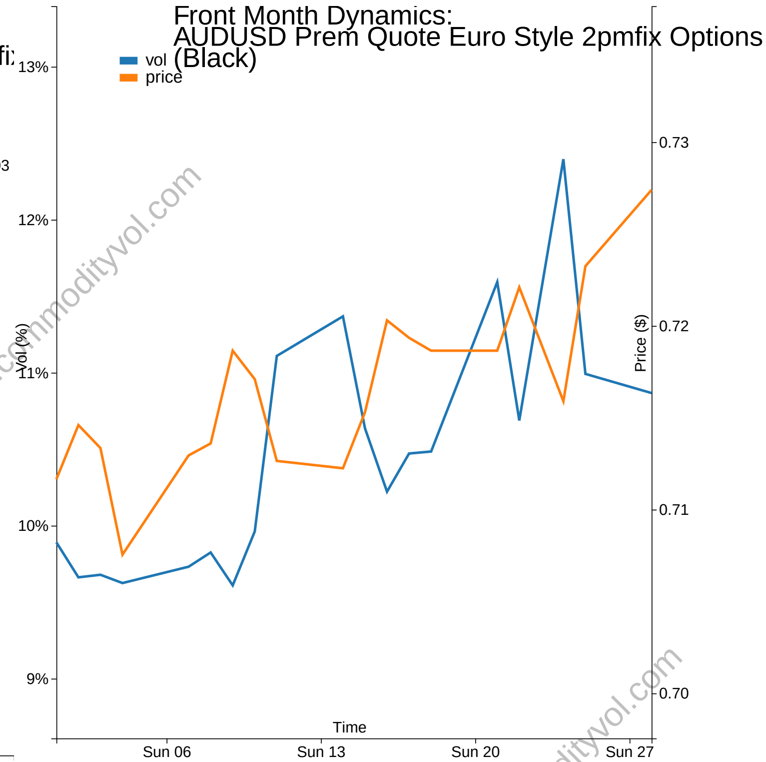

Termstructure Evolution:
CADUSD Prem Quote Euro Style 2pmfi
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Vol (%)
Time to Expiry (Yrs)

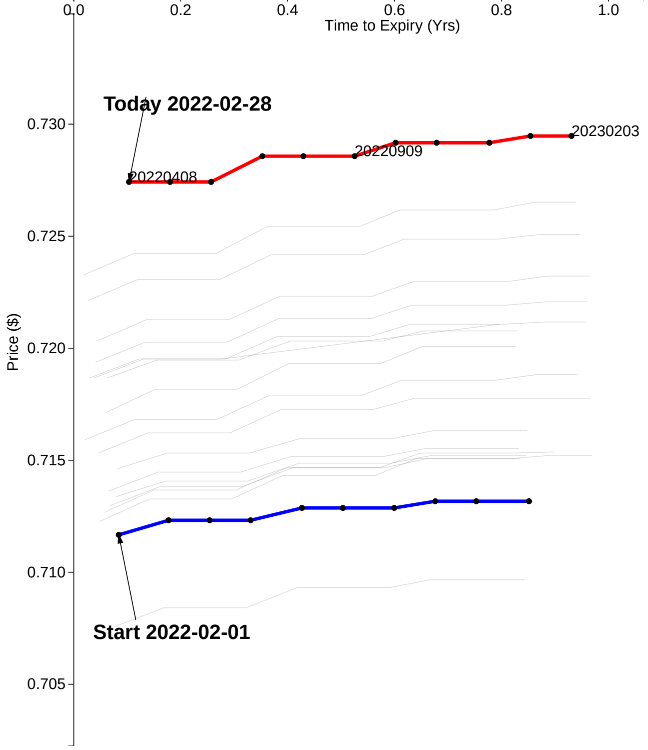

Front Month Dynamics:
CADUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

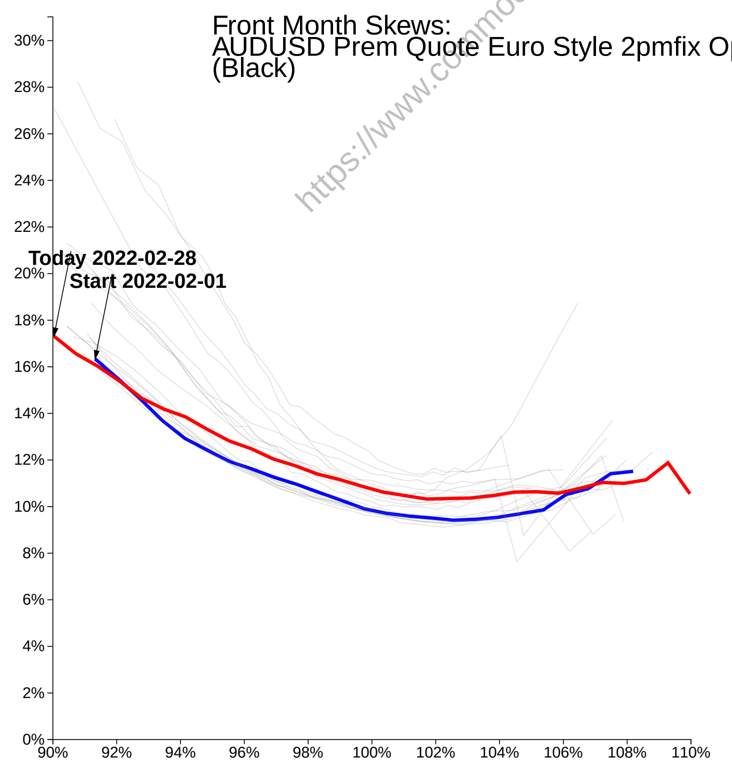

Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Price ($)

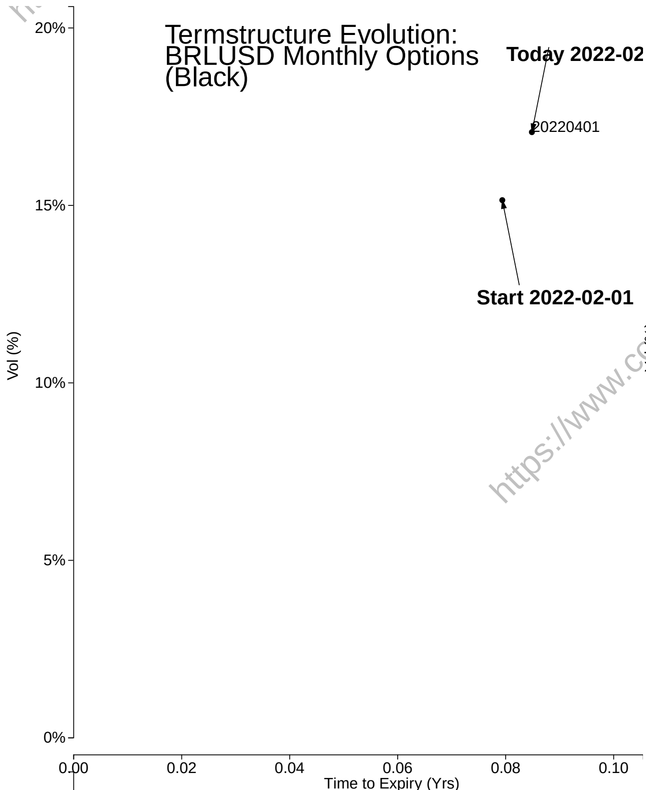

Front Month Skews:
CADUSD Prem Quote Euro Style 2pmfix O
(Black)
Today 2022-02-28
Start 2022-02-01

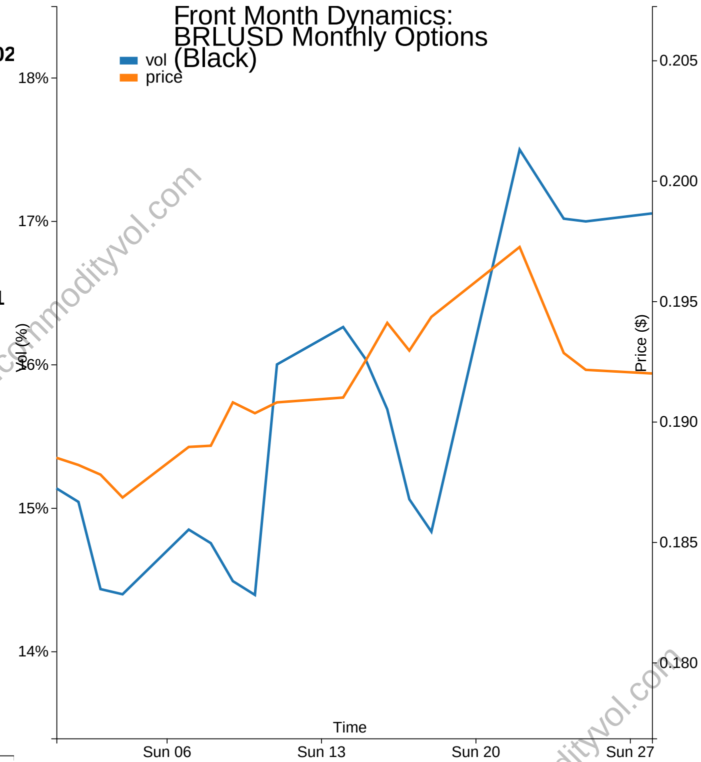

Termstructure Evolution:
AUDUSD Prem Quote Euro Style 2pmfi
(Black)
Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Vol (%)
Time to Expiry (Yrs)

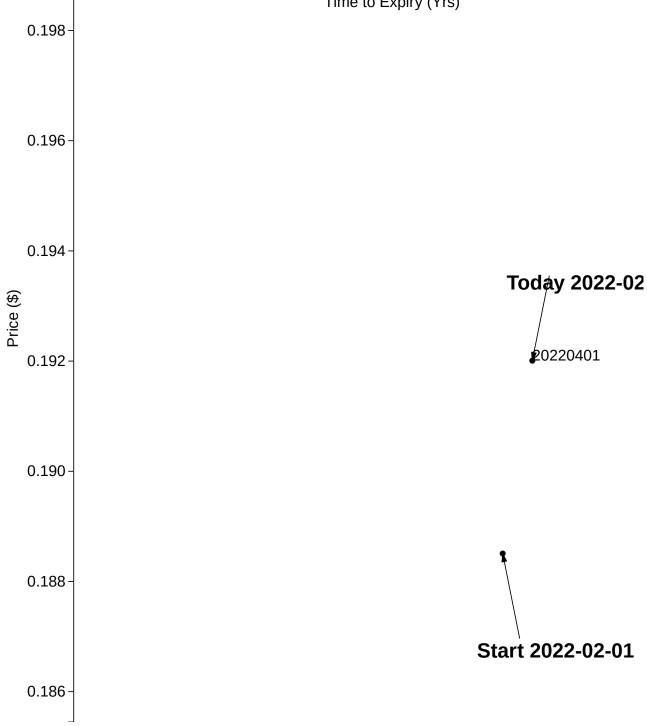

Front Month Dynamics:
AUDUSD Prem Quote Euro Style 2pmfix Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

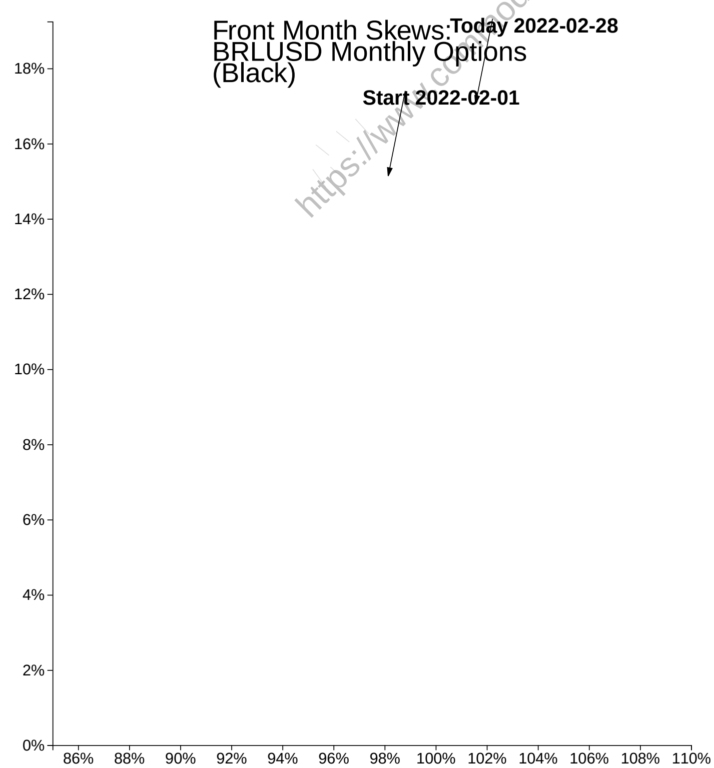

Today 2022-02-28
Start 2022-02-01
20220408
20220909
20230203
Price ($)

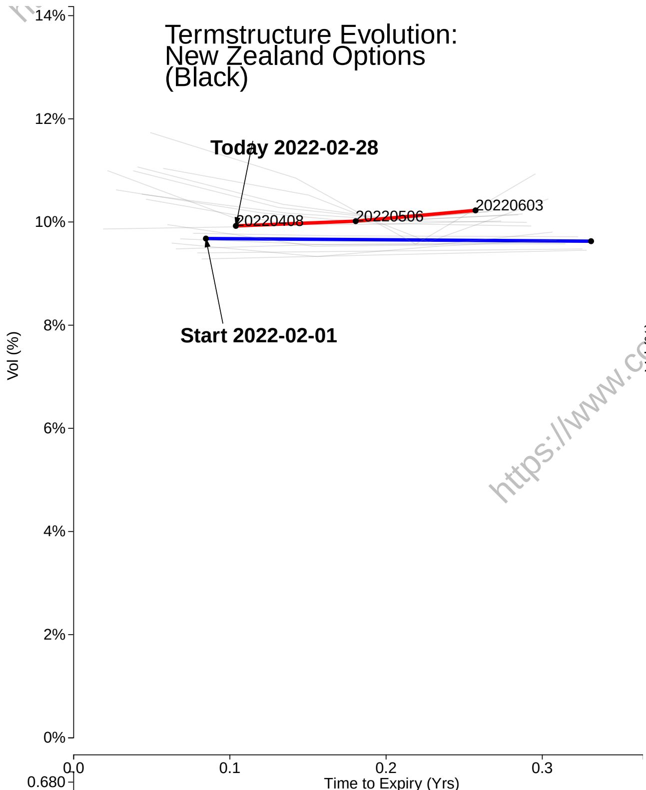

Front Month Skews:
AUDUSD Prem Quote Euro Style 2pmfix O
(Black)
Today 2022-02-28
Start 2022-02-01

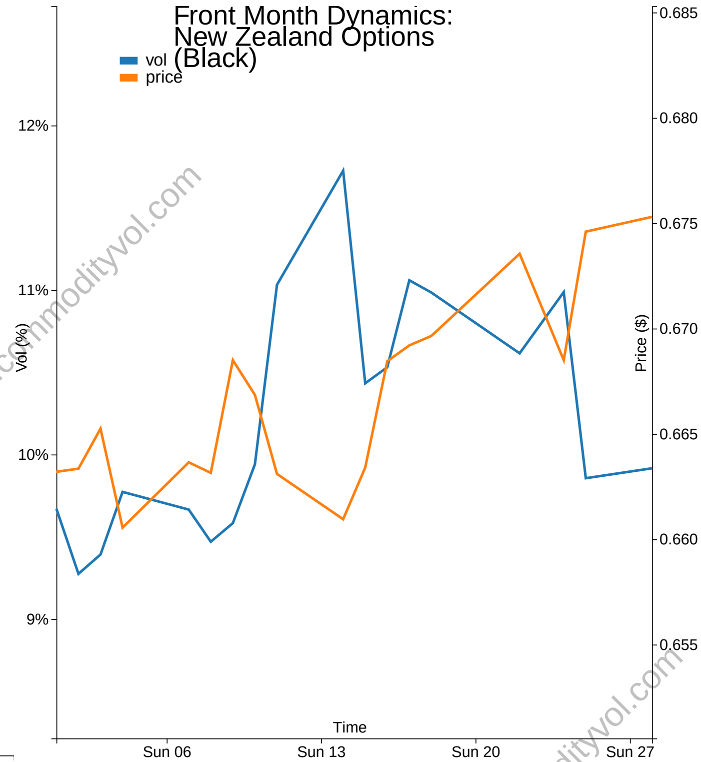

Termstructure Evolution:
BRLUSD Monthly Options
(Black)
Today 2022-02
20220401
Start 2022-02-01
Vol (%)
20%
15%
10%
5%
0%
0.00
0.02
0.04
0.06
0.08
0.10
Time to Expiry (Yrs)

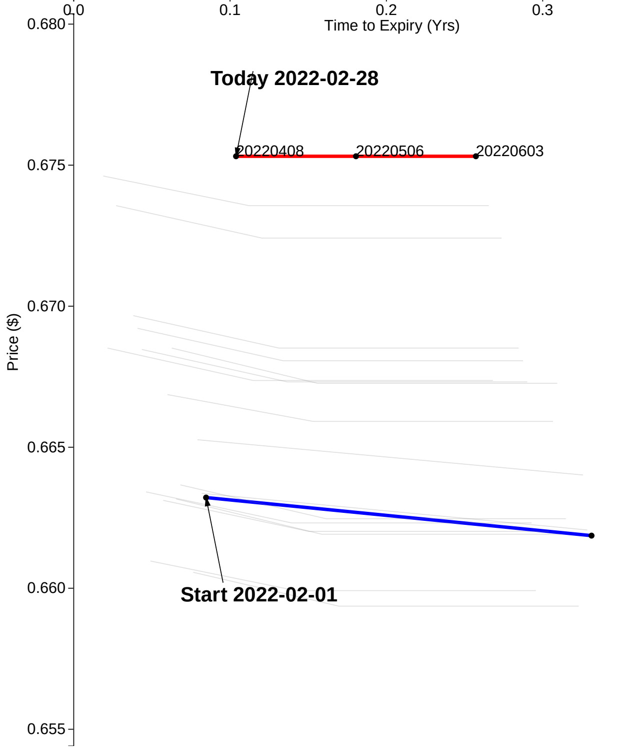

Front Month Dynamics:
BRLUSD Monthly Options
(Black)
vol
price
Vol (%)
Price ($)
18%
17%
16%
15%
14%
0.205
0.200
0.195
0.190
0.185
0.180
Time
Sun 06
Sun 13
Sun 20
Sun 27

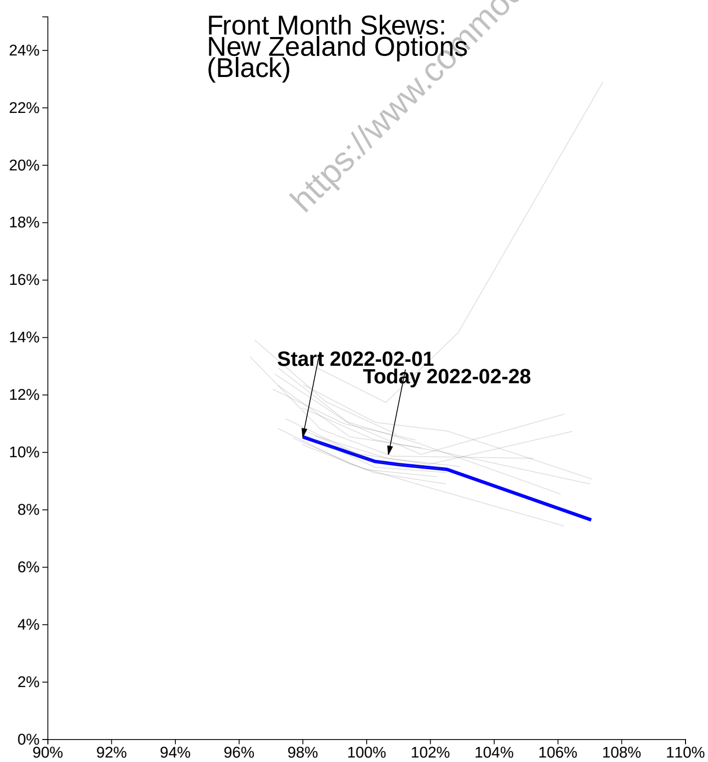

Price ($)
0.198
0.196
0.194
0.192
0.190
0.188
0.186
Today 2022-02
20220401
Start 2022-02-01

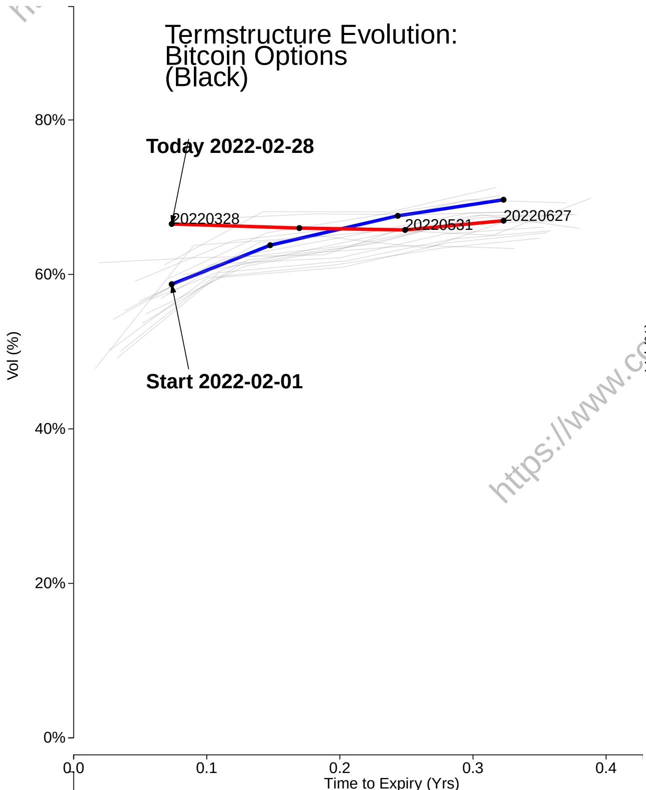

Front Month Skews:
BRLUSD Monthly Options
(Black)
Today 2022-02-28
Start 2022-02-01
18%
16%
14%
12%
10%
8%
6%
4%
2%
0%
86%
88%
90%
92%
94%
96%
98%
100%
102%
104%
106%
108%
110%

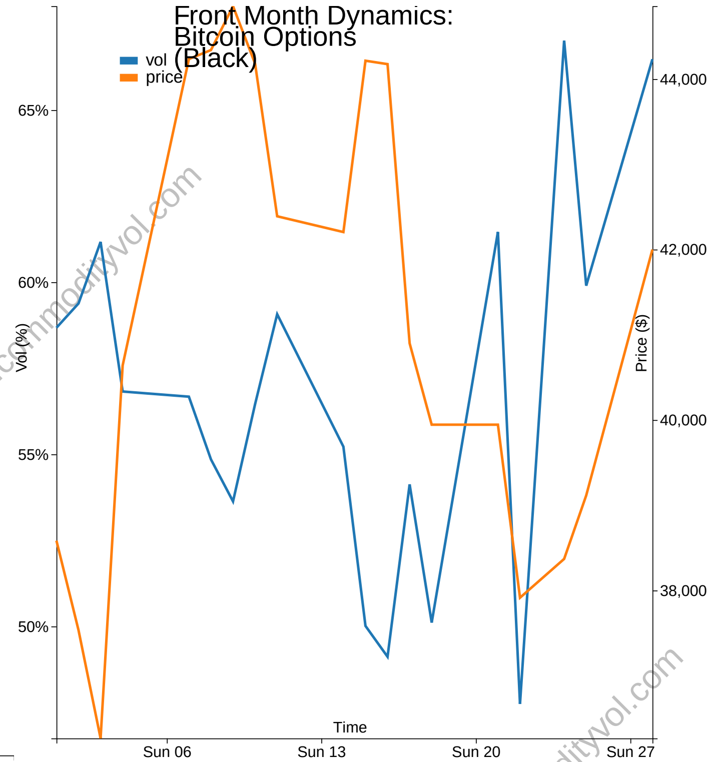

Termstructure Evolution:
New Zealand Options
(Black)
Today 2022-02-28
20220408
20220506
20220603
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)

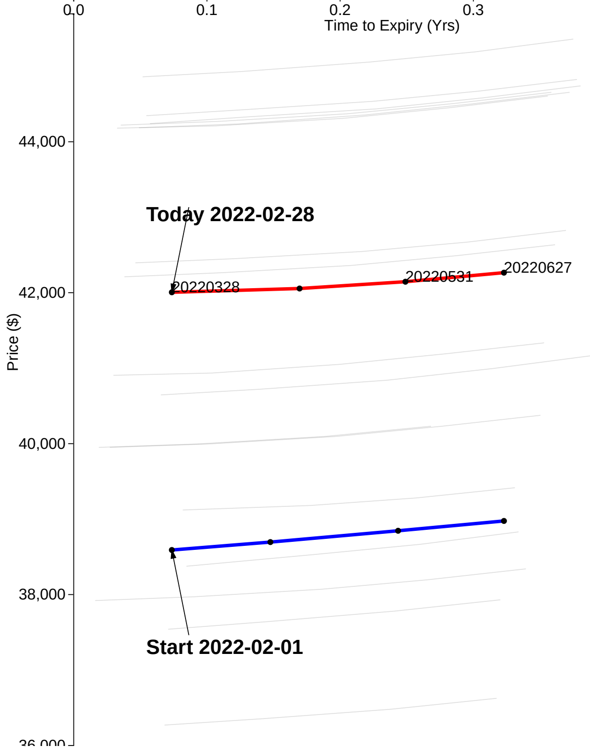

Front Month Dynamics:
New Zealand Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

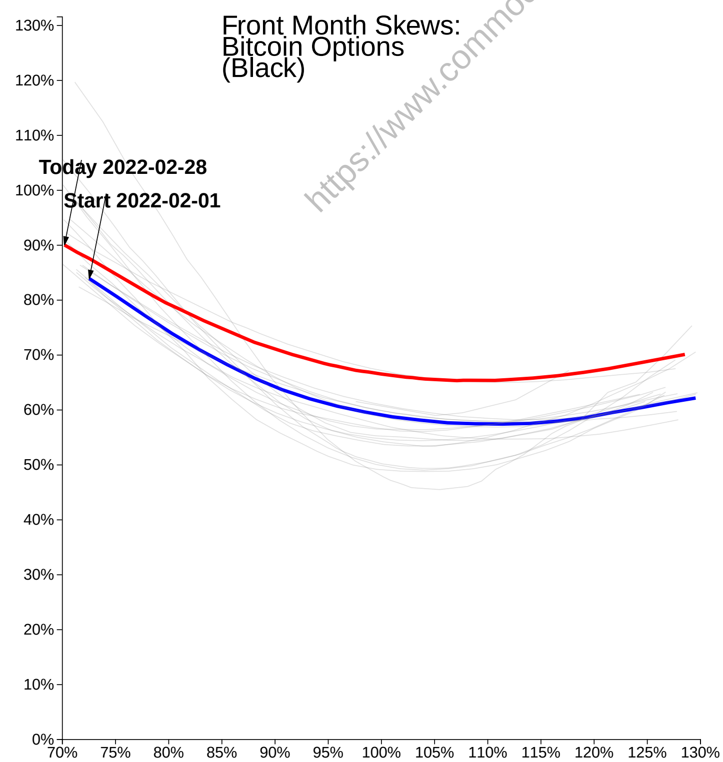

Today 2022-02-28
20220408
20220506
20220603
Start 2022-02-01
Price ($)


Front Month Skews:
New Zealand Options
(Black)
Start 2022-02-01
Today 2022-02-28

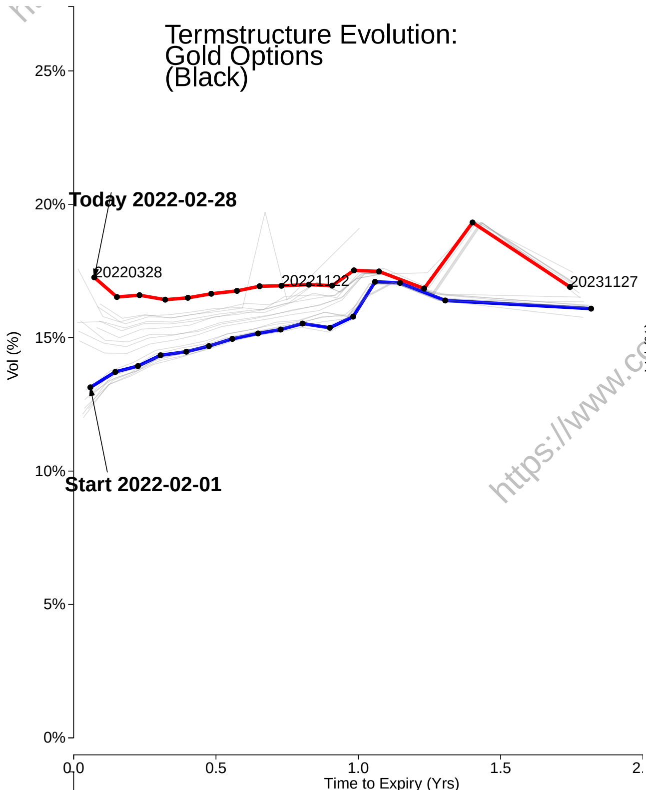

Termstructure Evolution:
Bitcoin Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220328
20220531
20220627
Vol (%)
80%
60%
40%
20%
0%
0.0
0.1
0.2
0.3
0.4
Time to Expiry (Yrs)

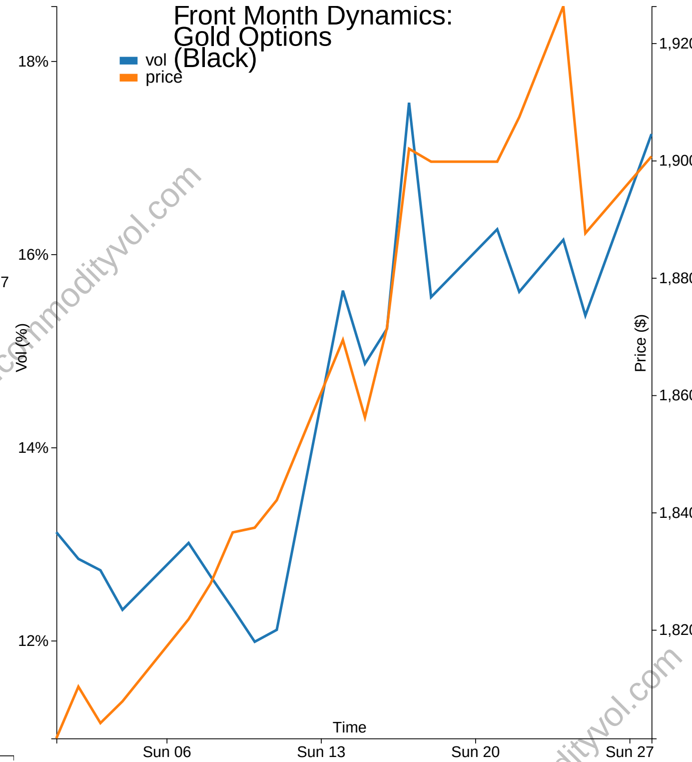

Front Month Dynamics:
Bitcoin Options
(Black)
vol
price
Vol (%)
65%
60%
55%
50%
Price ($)
44,000
42,000
40,000
38,000
Time
Sun 06
Sun 13
Sun 20
Sun 27

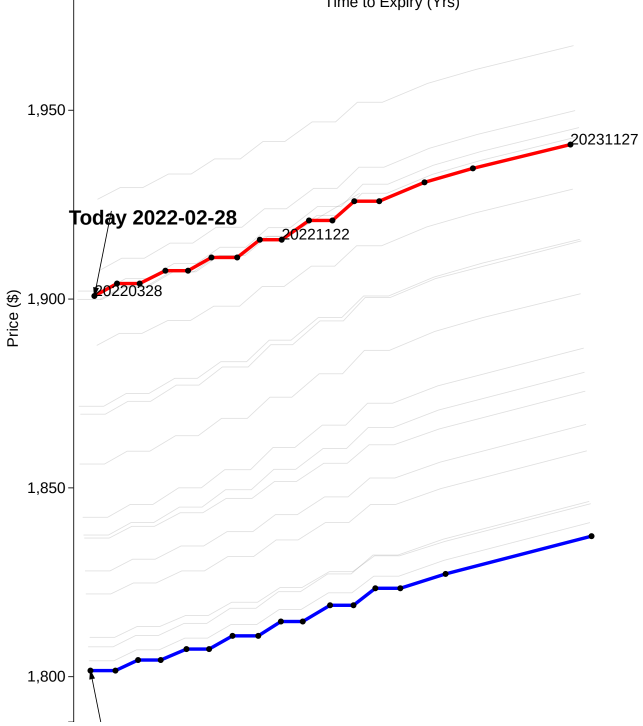

Today 2022-02-28
Start 2022-02-01
20220328
20220531
20220627
Price ($)
44,000
42,000
40,000
38,000
36,000

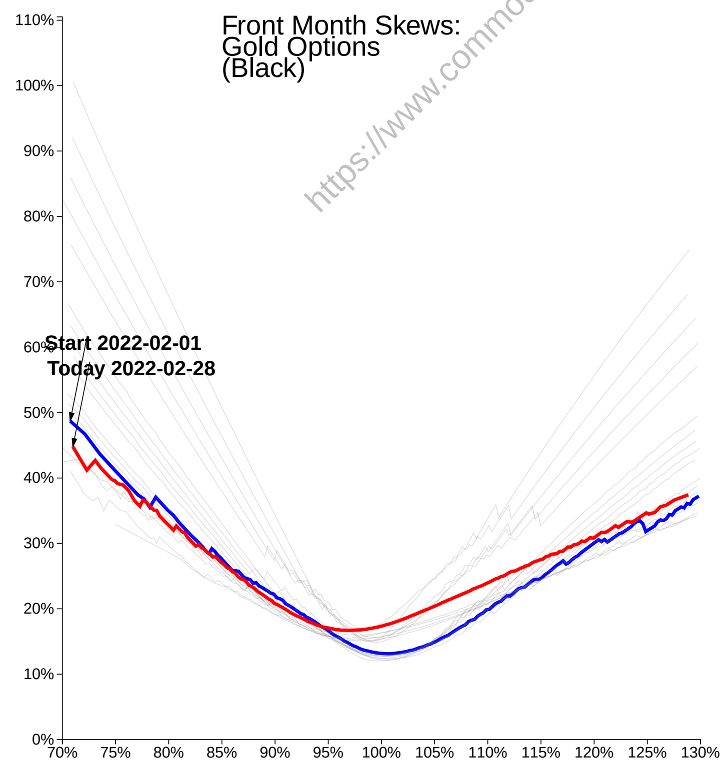

Front Month Skews:
Bitcoin Options
(Black)
Today 2022-02-28
Start 2022-02-01
130%
120%
110%
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

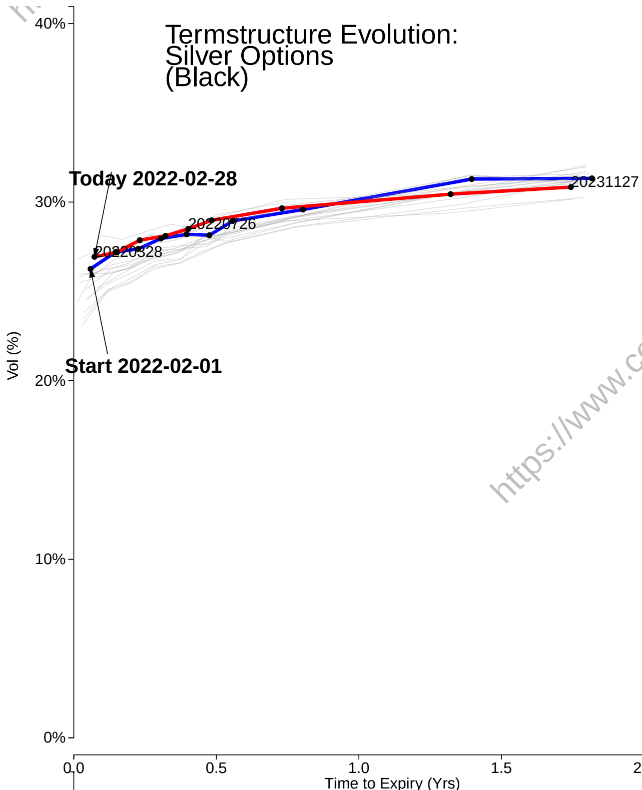
Metals, Materials and so forth

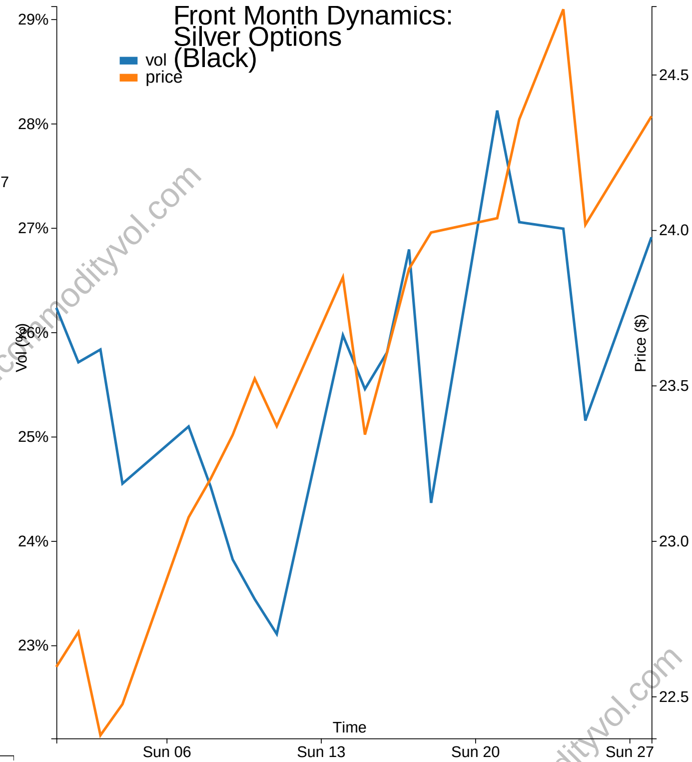

Termstructure Evolution:
Gold Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220328
20221122
20231127
Vol (%)
Time to Expiry (Yrs)

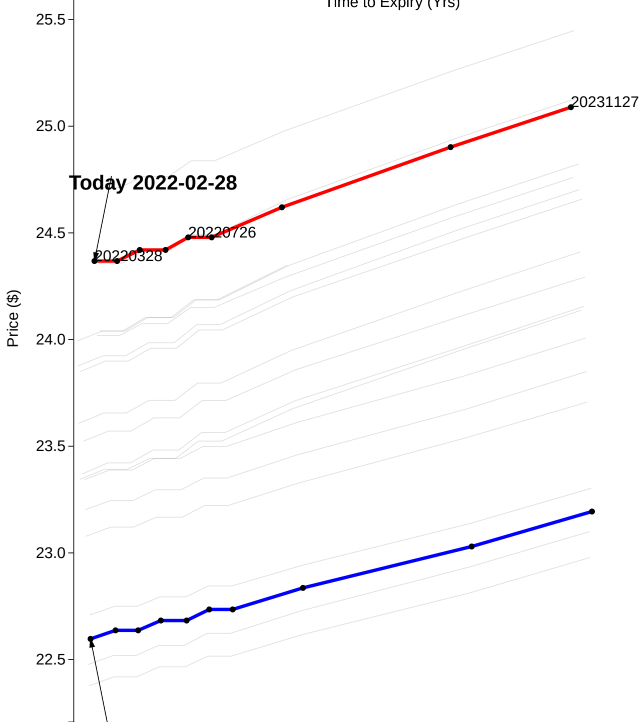

Front Month Dynamics:
Gold Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

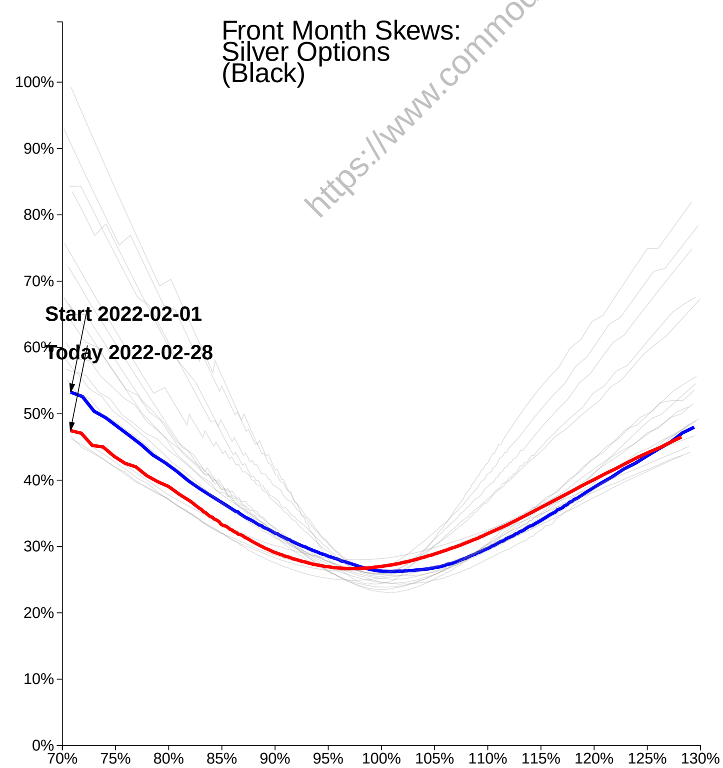

Today 2022-02-28
20220328
20221122
20231127
Price ($)

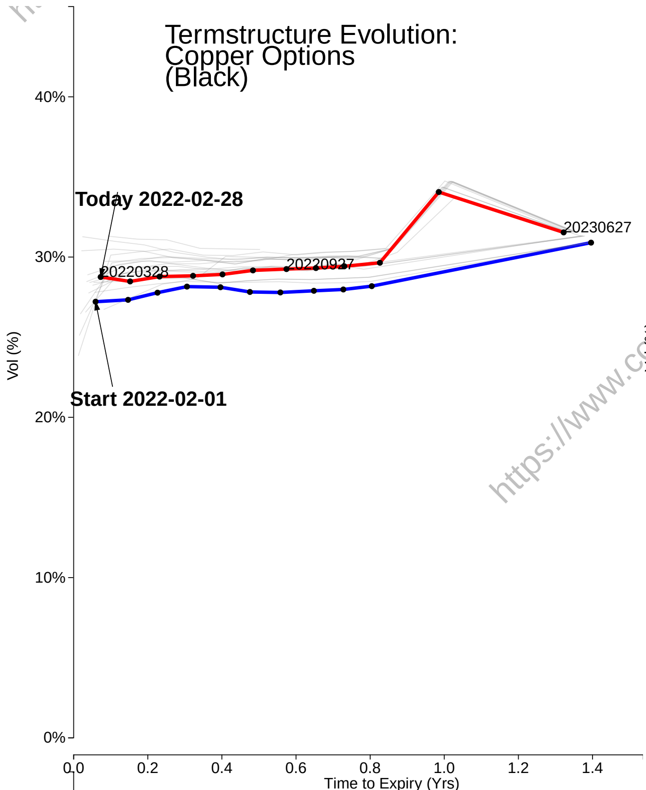

Front Month Skews:
Gold Options
(Black)
Start 2022-02-01
Today 2022-02-28

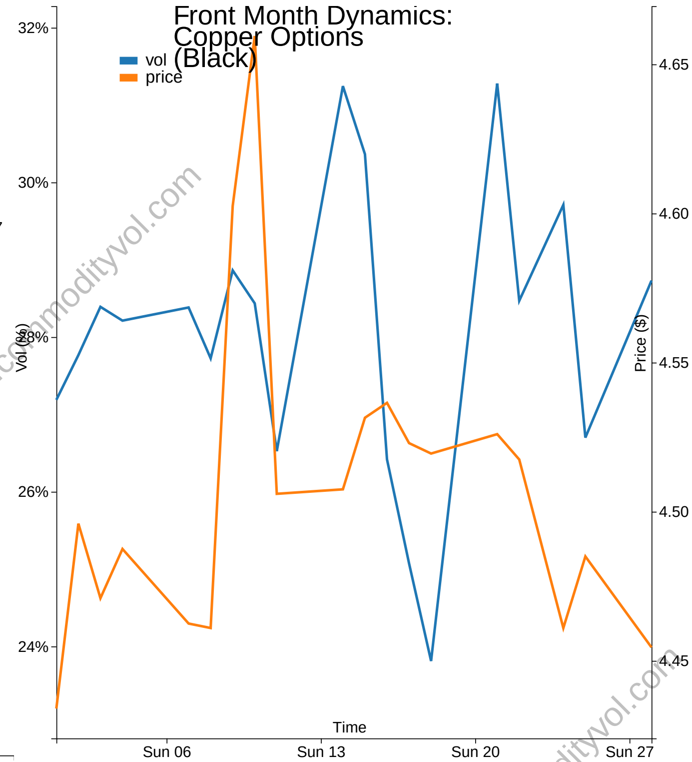

Termstructure Evolution:
Silver Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220328
20220726
20231127
Vol (%)
Time to Expiry (Yrs)

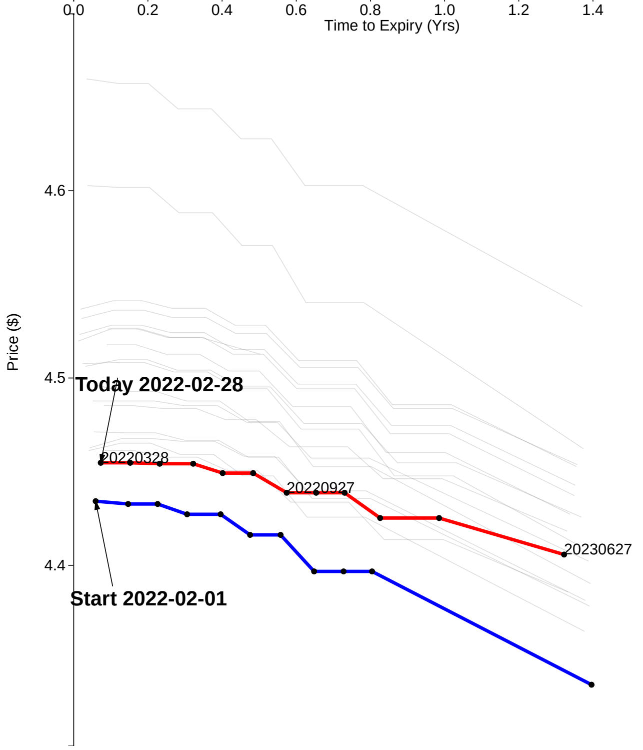

Front Month Dynamics:
Silver Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

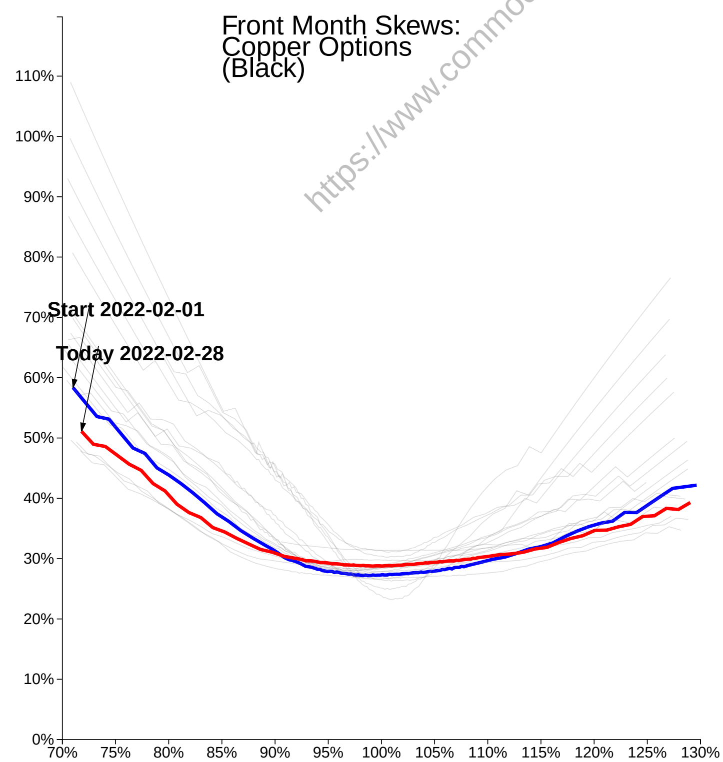

Today 2022-02-28
20220328
20220726
20231127
Price ($)

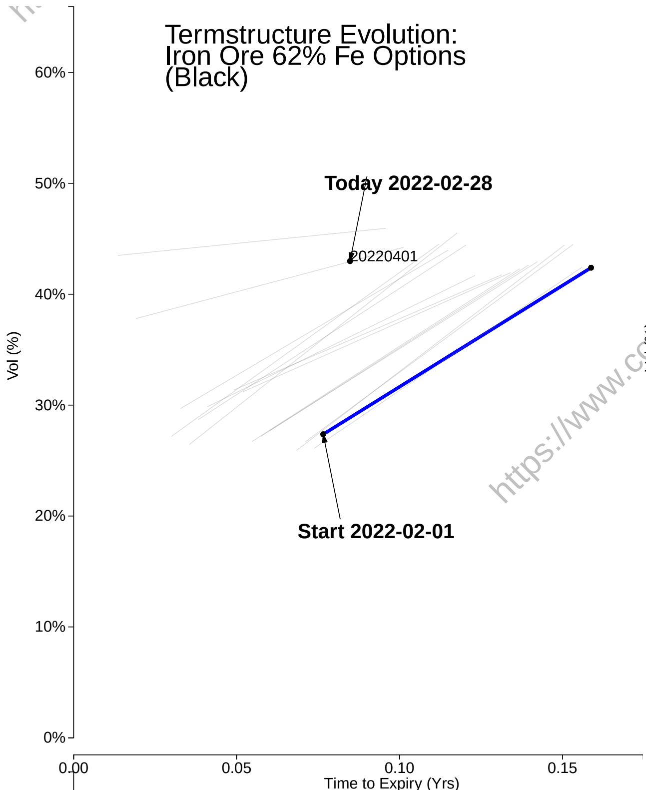

Front Month Skews:
Silver Options
(Black)
Start 2022-02-01
Today 2022-02-28

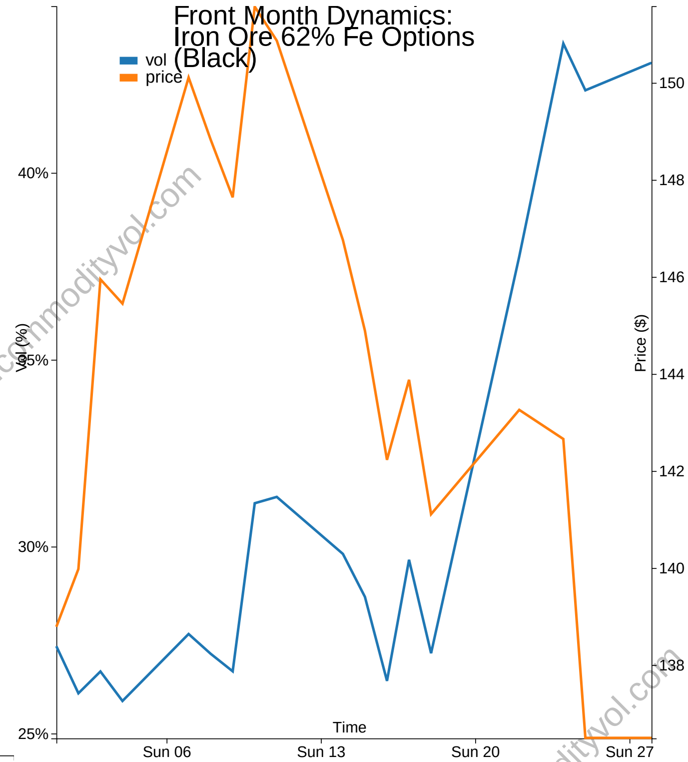

Termstructure Evolution:
Copper Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220328
20220927
20230627
Vol (%)
0%
10%
20%
30%
40%
Time to Expiry (Yrs)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

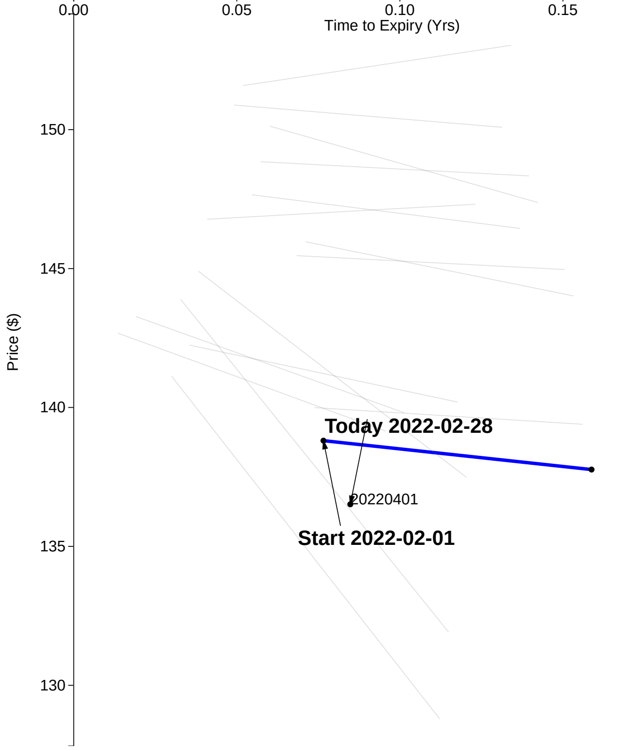

Front Month Dynamics:
Copper Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
24%
26%
28%
30%
32%
4.45
4.50
4.55
4.60
4.65

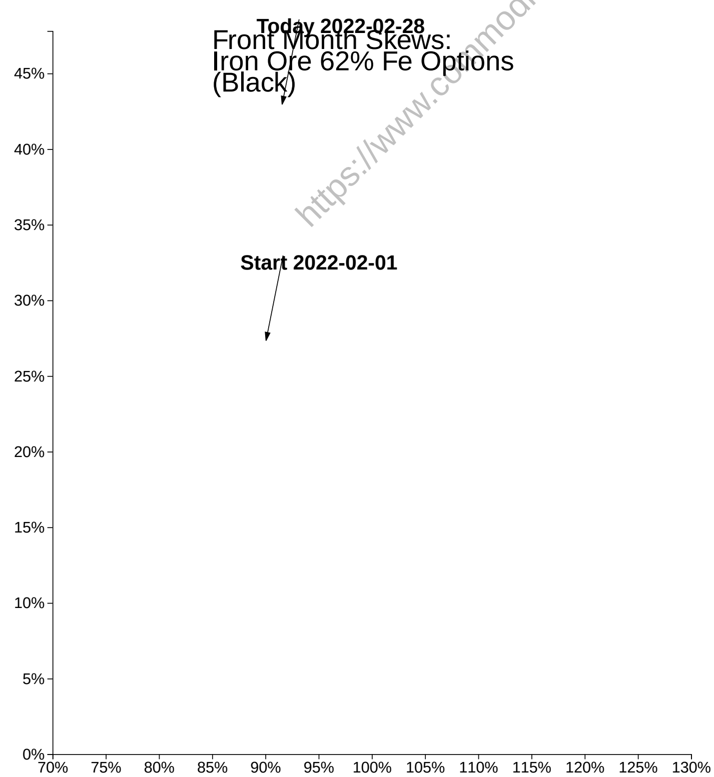

Today 2022-02-28
Start 2022-02-01
20220328
20220927
20230627
Price ($)
4.4
4.5
4.6

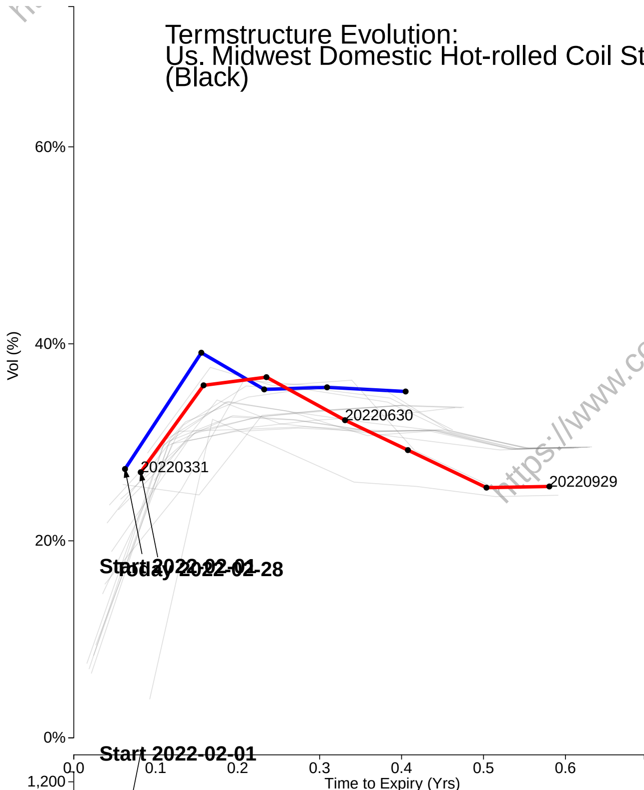

Front Month Skews:
Copper Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
110%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

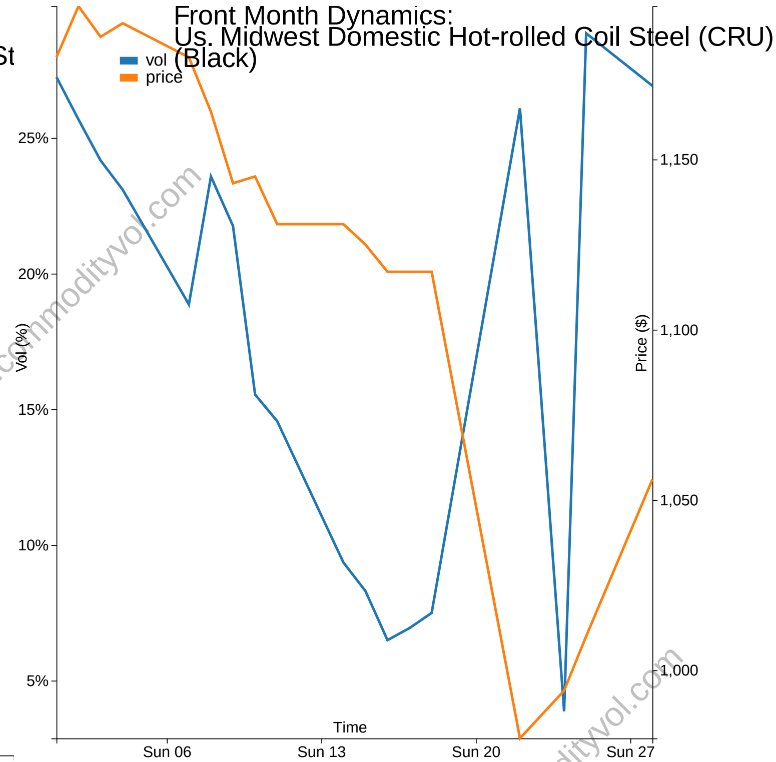

Termstructure Evolution:
Iron Ore 62% Fe Options
(Black)
Today 2022-02-28
20220401
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)

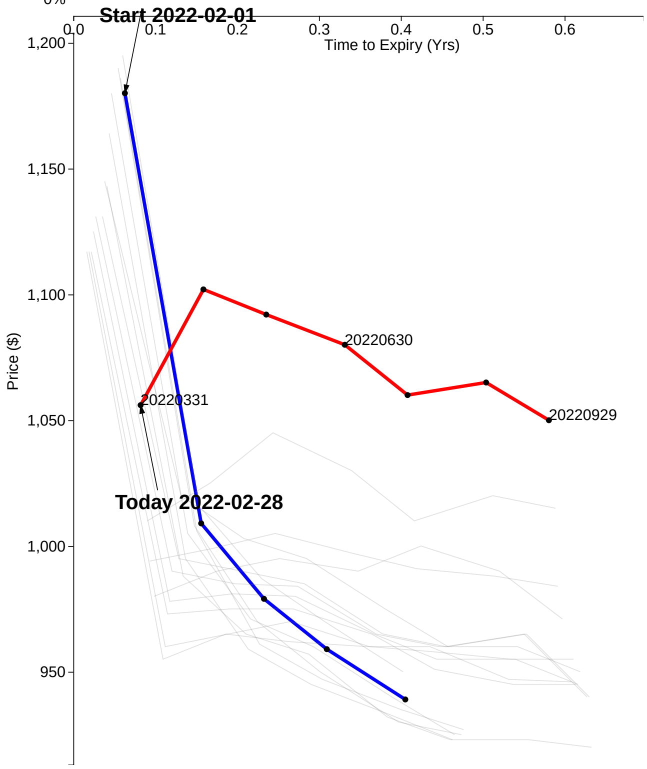

Front Month Dynamics:
Iron Ore 62% Fe Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

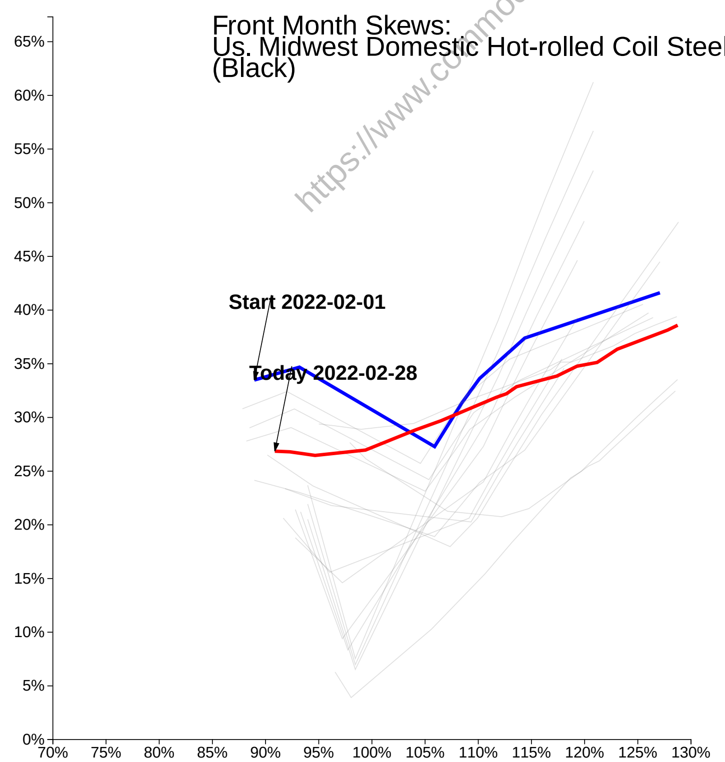

Today 2022-02-28
20220401
Start 2022-02-01
Price ($)

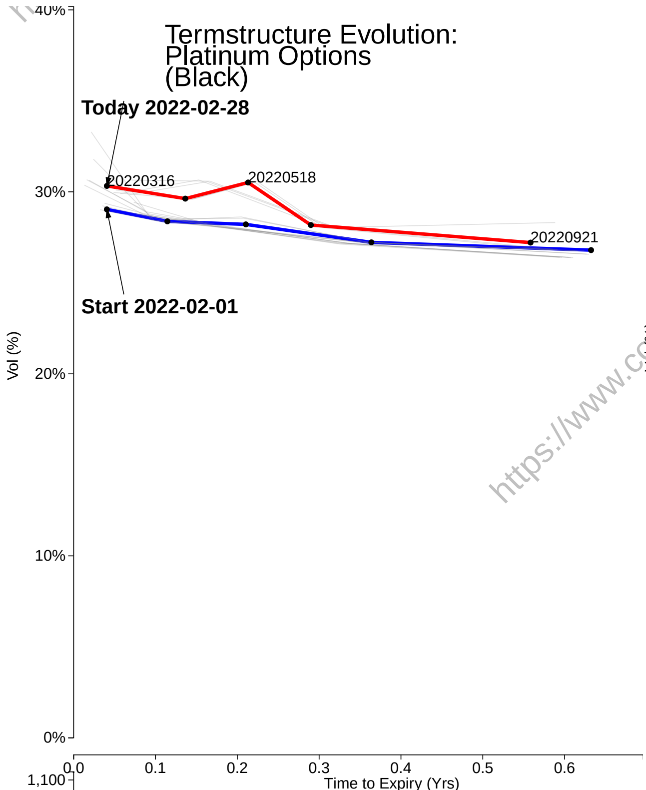

Front Month Skews:
Iron Ore 62% Fe Options
(Black)
Today 2022-02-28
Start 2022-02-01


Termstructure Evolution:
Us. Midwest Domestic Hot-rolled Coil St
(Black)
Vol (%)
60%
40%
20%
0%
20220331
20220630
20220929
Start 2022-02-01
Today 2022-02-28
0.0
0.1
0.2
0.3
0.4
0.5
0.6
Time to Expiry (Yrs)

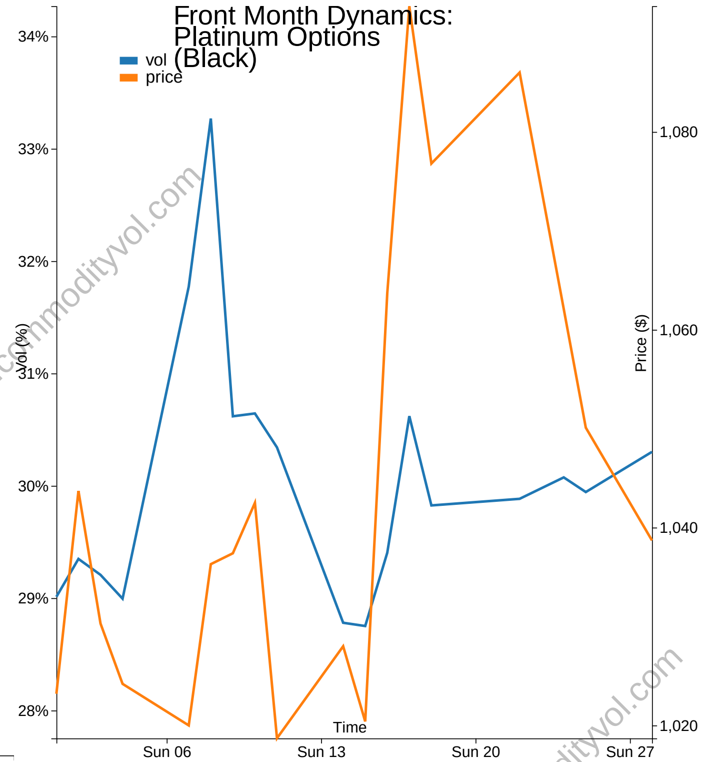

Front Month Dynamics:
Us. Midwest Domestic Hot-rolled Coil Steel (CRU)
(Black)
vol
price
Vol (%)
25%
20%
15%
10%
5%
Price ($)
1,150
1,100
1,050
1,000
Time
Sun 06
Sun 13
Sun 20
Sun 27


Start 2022-02-01
Price ($)
1,200
1,150
1,100
1,050
1,000
950
20220331
20220630
20220929
Today 2022-02-28

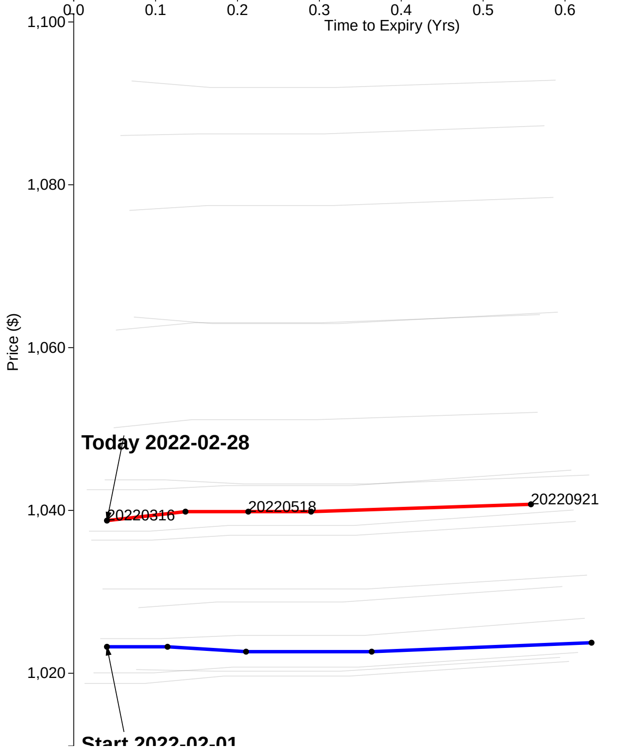

Front Month Skews:
Us. Midwest Domestic Hot-rolled Coil Steel
(Black)
65%
60%
55%
50%
45%
40%
35%
30%
25%
20%
15%
10%
5%
0%
Start 2022-02-01
Today 2022-02-28
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%



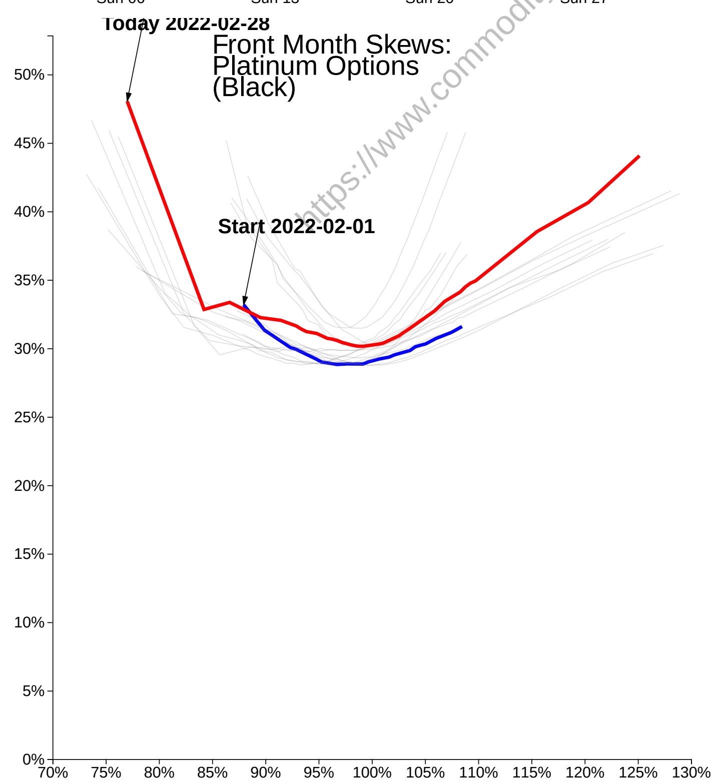
Termstructure Evolution:
Platinum Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220316
20220518
20220921
Vol (%)
Time to Expiry (Yrs)



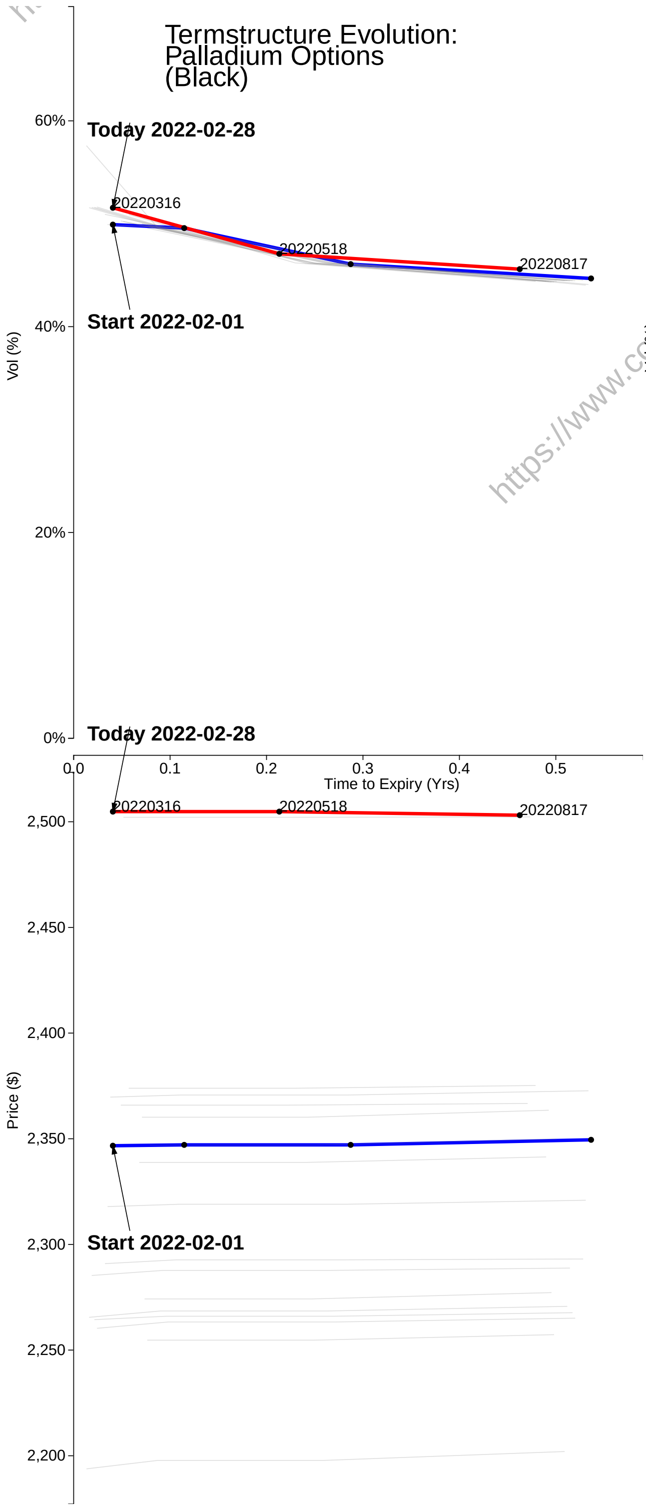
Front Month Dynamics:
Platinum Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

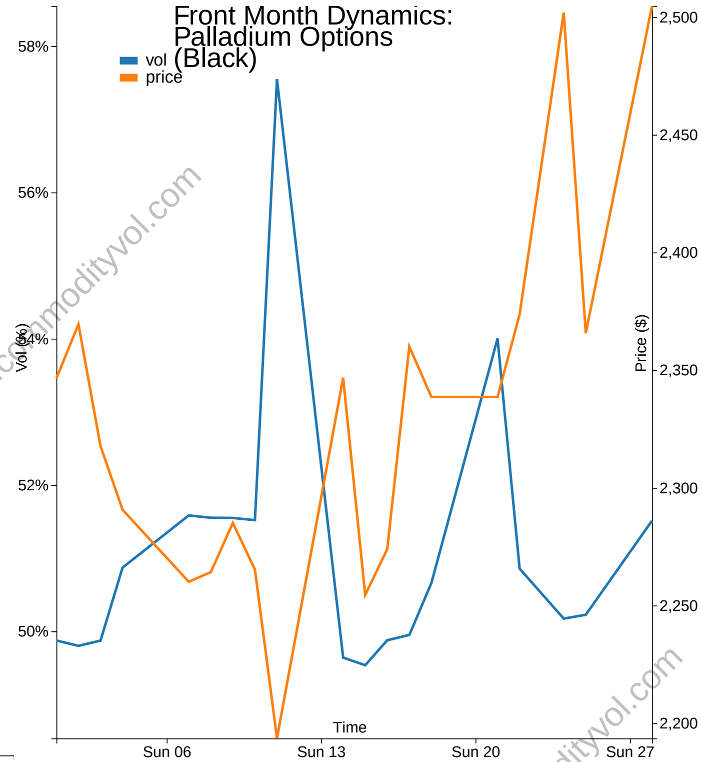


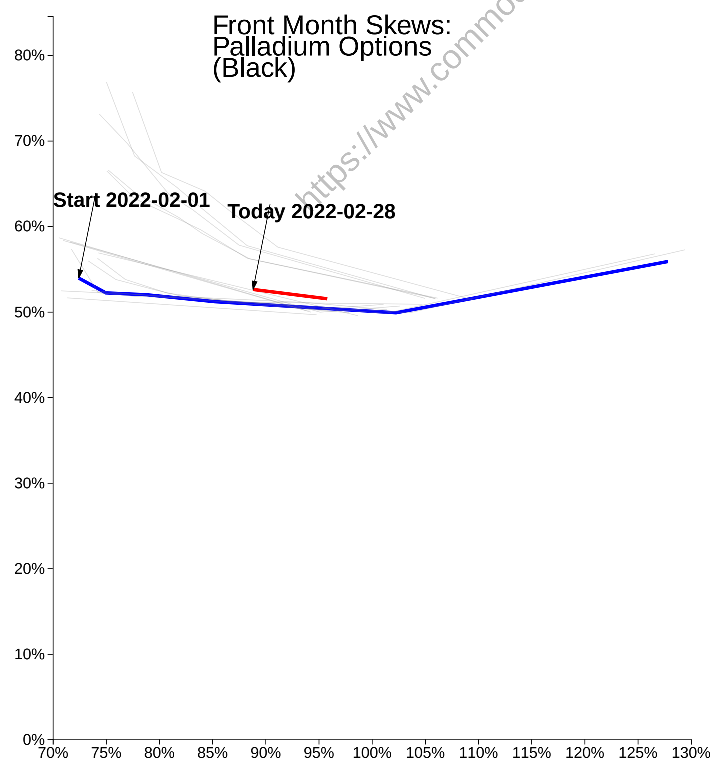
Price ($)
Today 2022-02-28
Start 2022-02-01
20220316
20220518
20220921

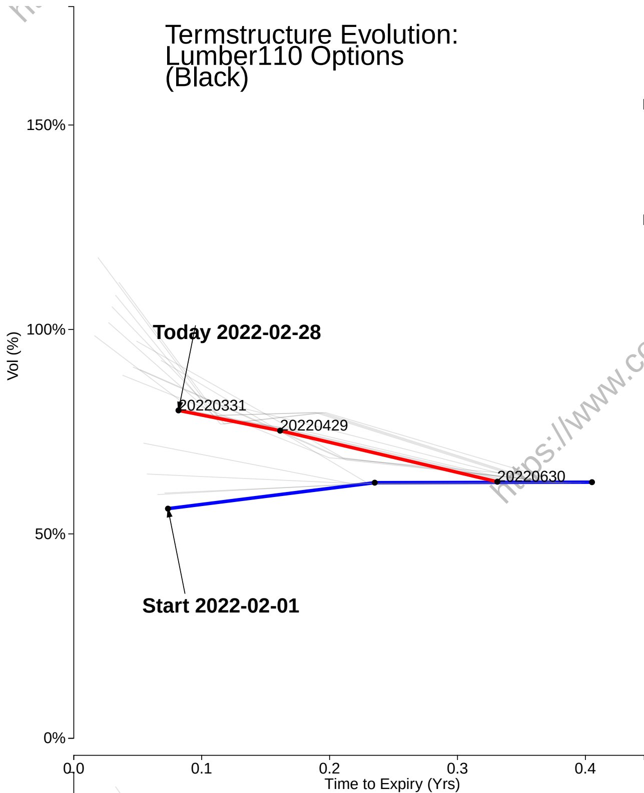


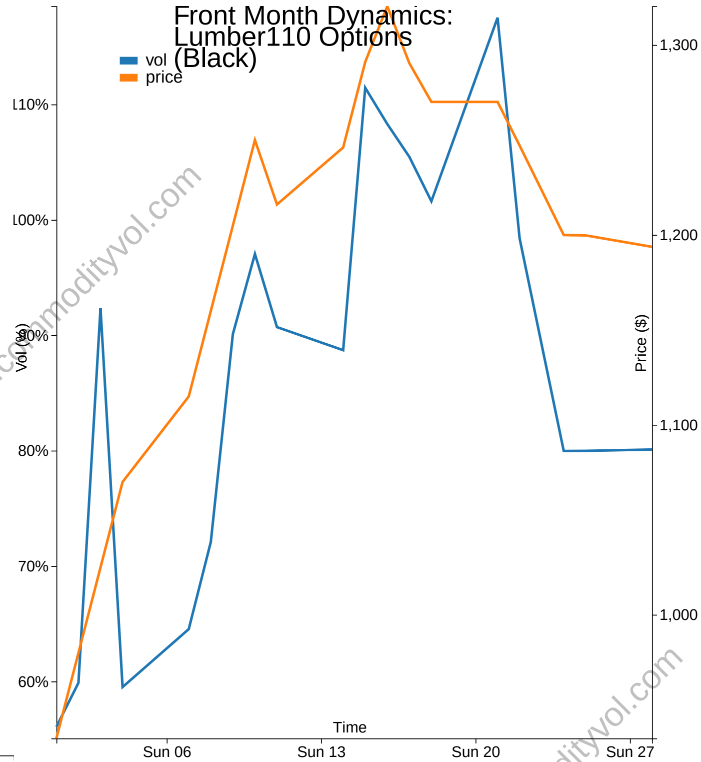
Front Month Skews:
Platinum Options
(Black)
Today 2022-02-28
Start 2022-02-01

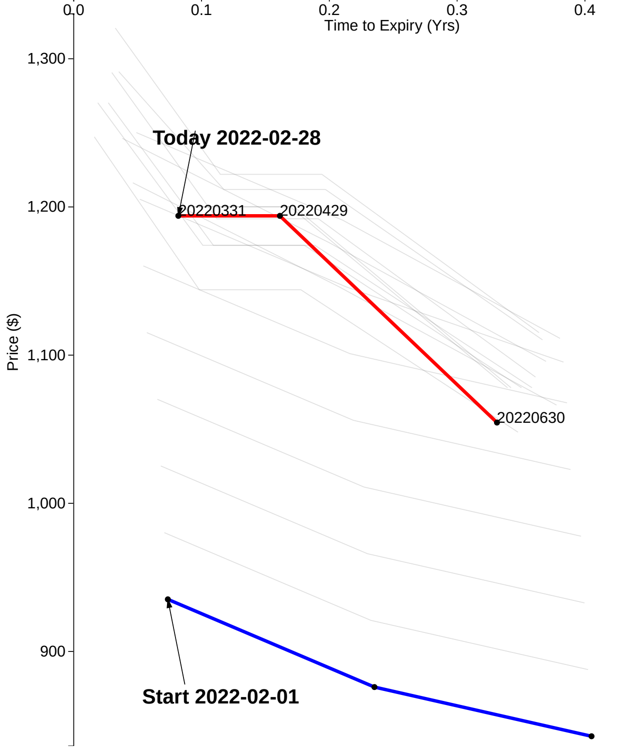

Termstructure Evolution:
Palladium Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220316
20220518
20220817
Vol (%)
Time to Expiry (Yrs)
Price ($)

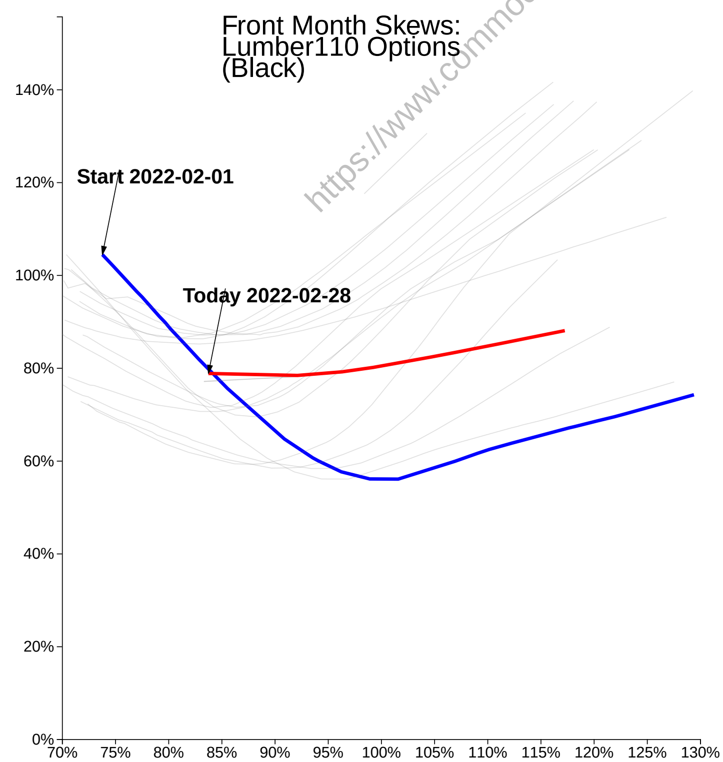

Front Month Dynamics:
Palladium Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27


Front Month Skews:
Palladium Options
(Black)
Start 2022-02-01
Today 2022-02-28

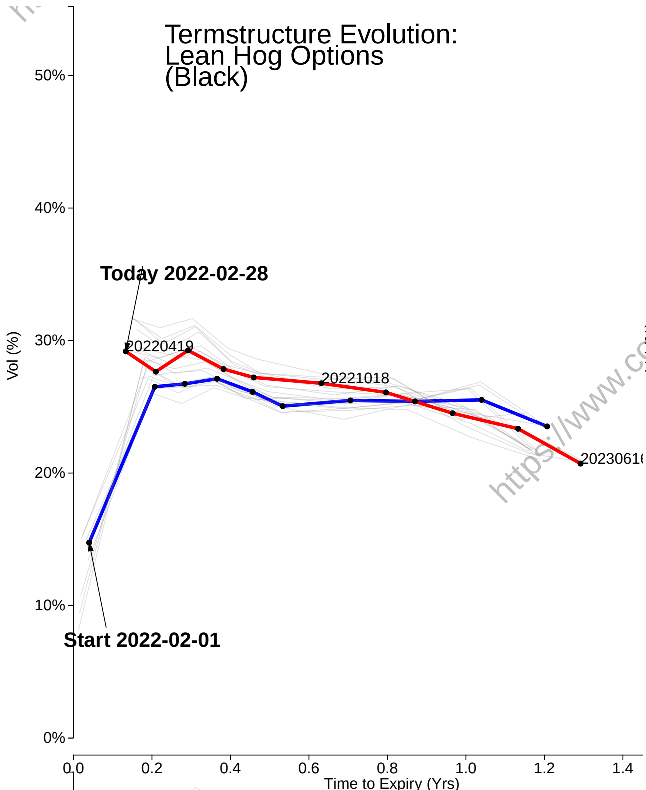

Termstructure Evolution:
Lumber110 Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220331
20220429
20220630
Vol (%)
Time to Expiry (Yrs)
150%
100%
50%
0%
0.0
0.1
0.2
0.3
0.4
https://www.commodityvol.com

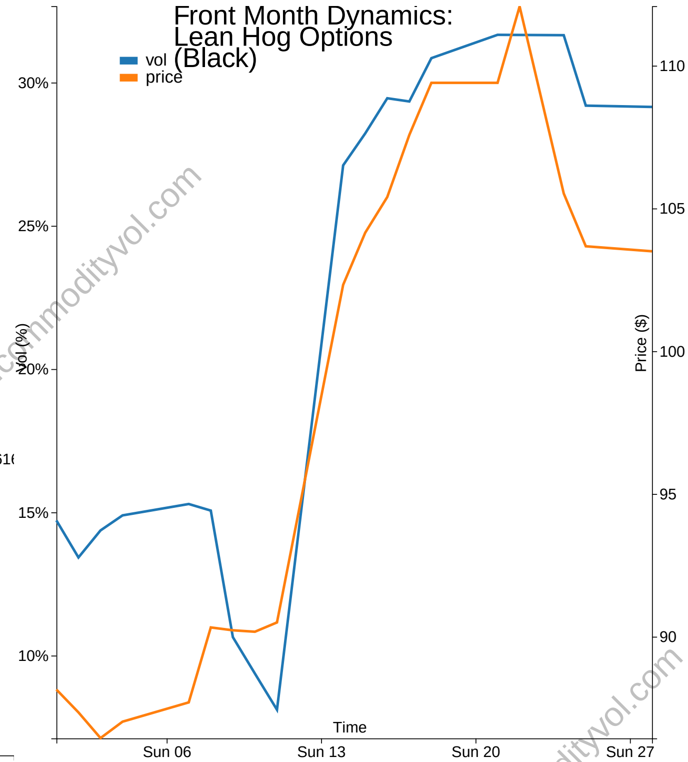

Front Month Dynamics:
Lumber110 Options
(Black)
vol
price
Vol (%)
Price ($)
Time
110%
100%
90%
80%
70%
60%
1,300
1,200
1,100
1,000
Sun 06
Sun 13
Sun 20
Sun 27

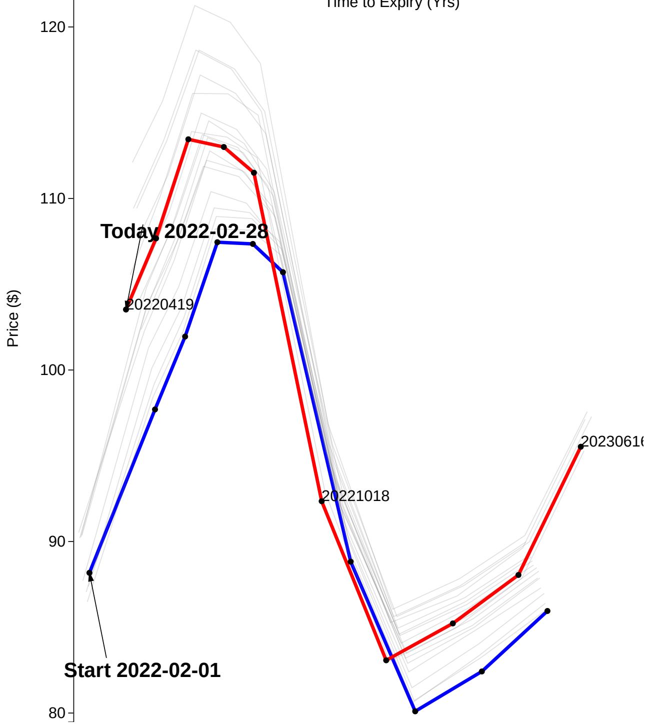

Today 2022-02-28
Start 2022-02-01
20220331
20220429
20220630
Price ($)
1,300
1,200
1,100
1,000
900

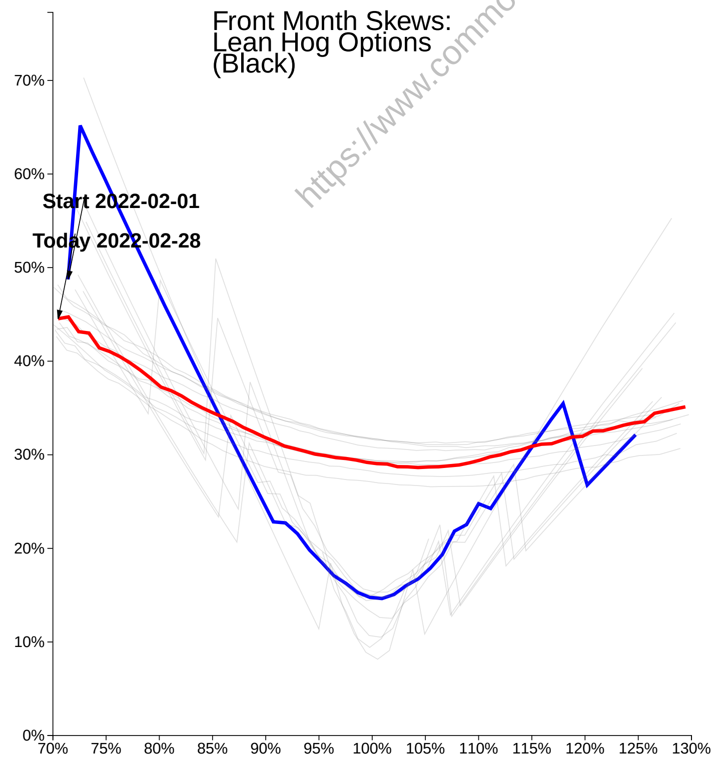

Front Month Skews:
Lumber110 Options
(Black)
Start 2022-02-01
Today 2022-02-28
140%
120%
100%
80%
60%
40%
20%
0%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%
https://www.commodityvol.com

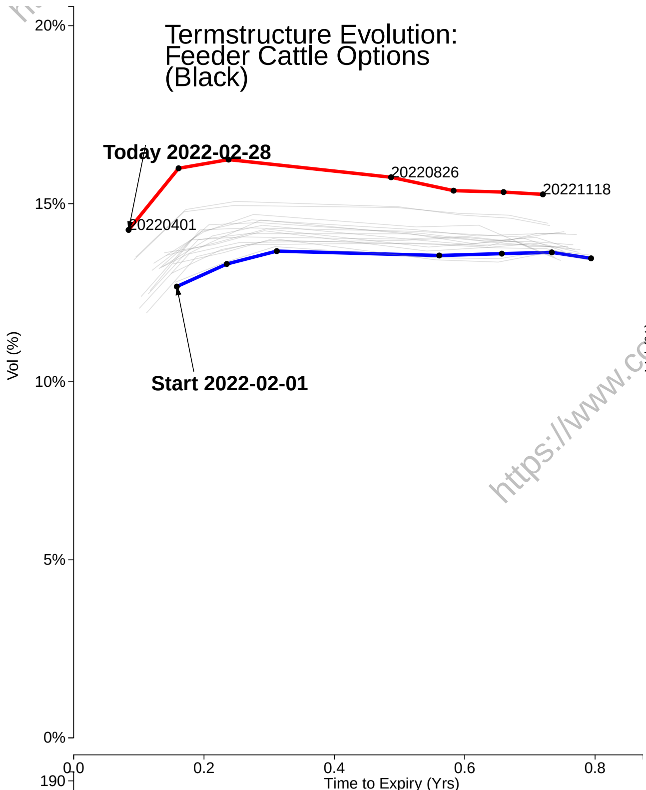
Proteins, Meats and so forth


Termstructure Evolution:
Lean Hog Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220419
20221018
20230616
Vol (%)
Time to Expiry (Yrs)

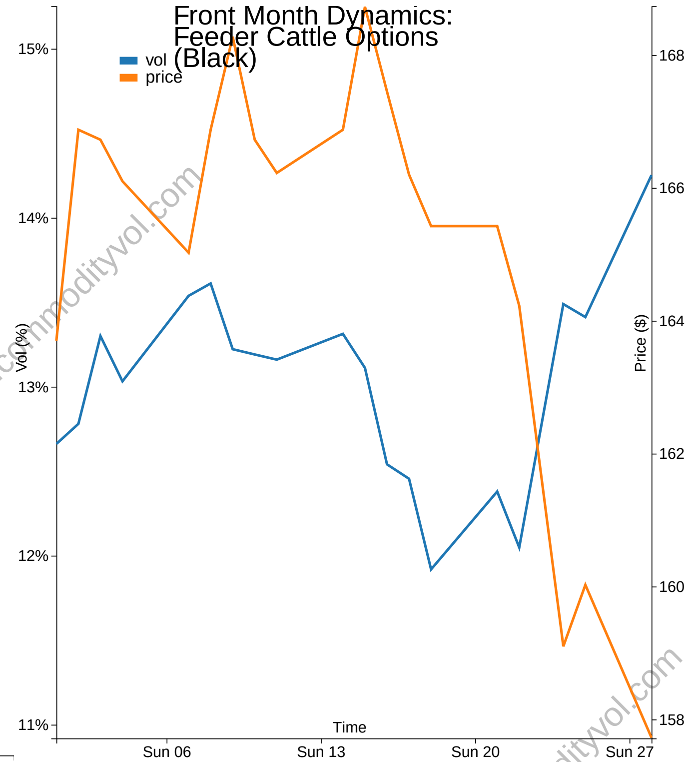

Front Month Dynamics:
Lean Hog Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27


Today 2022-02-28
Start 2022-02-01
20220419
20221018
20230616
Price ($)

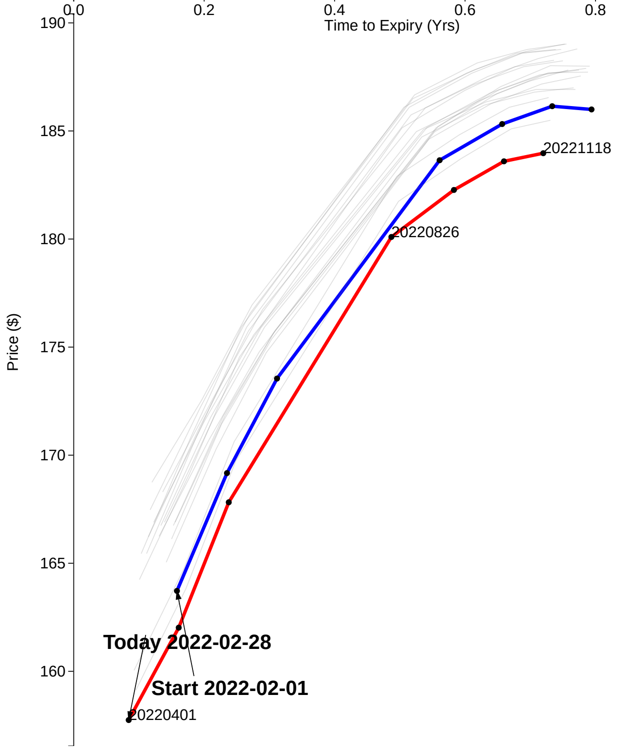

Front Month Skews:
Lean Hog Options
(Black)
Start 2022-02-01
Today 2022-02-28



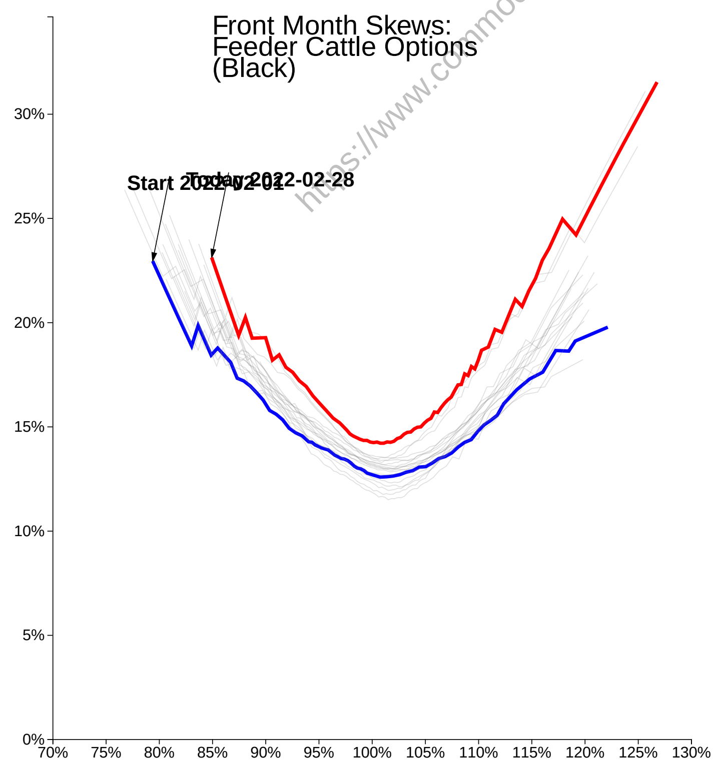
Termstructure Evolution:
Feeder Cattle Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220401
20220826
20221118
Vol (%)
Time to Expiry (Yrs)



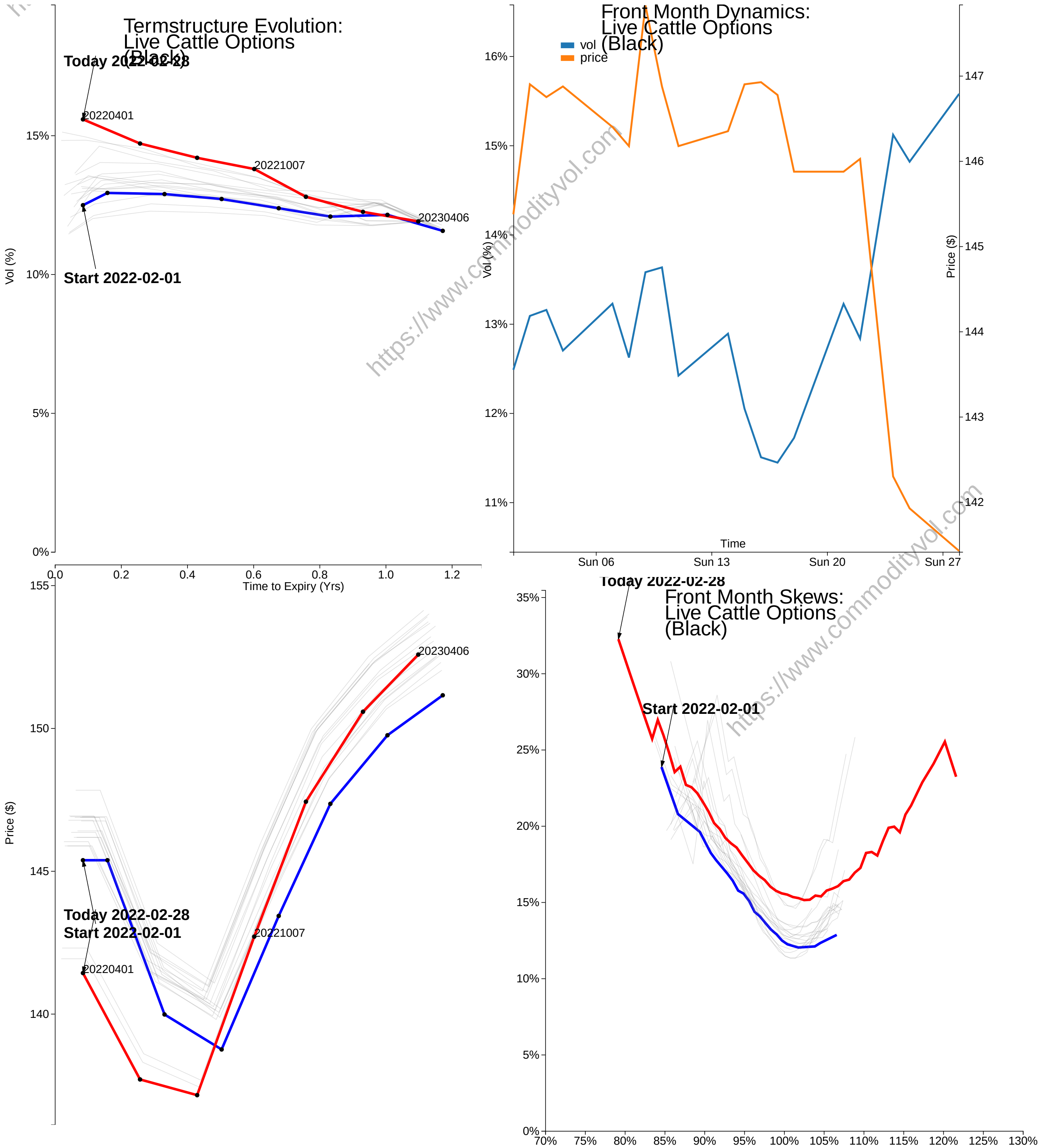
Front Month Dynamics:
Feeder Cattle Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

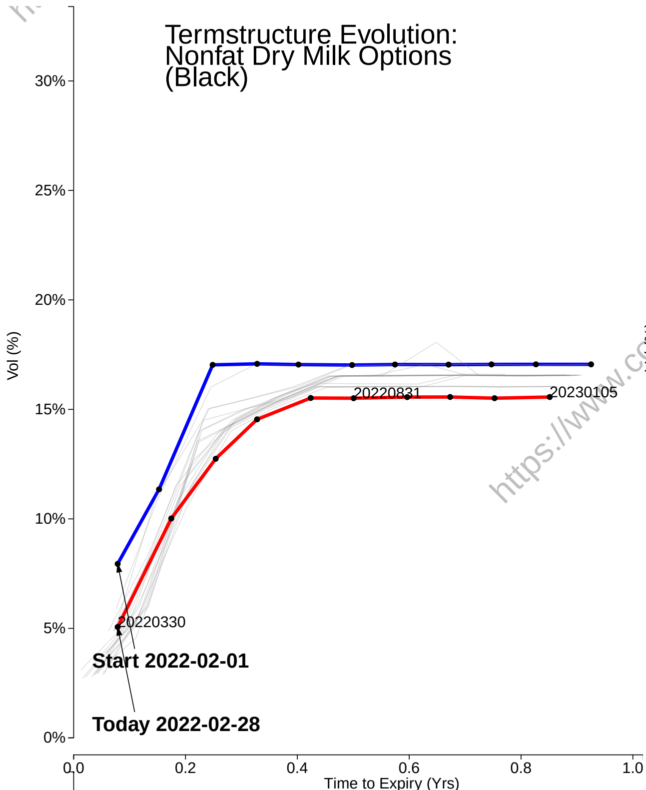


Today 2022-02-28
Start 2022-02-01
20220401
20220826
20221118
Price ($)

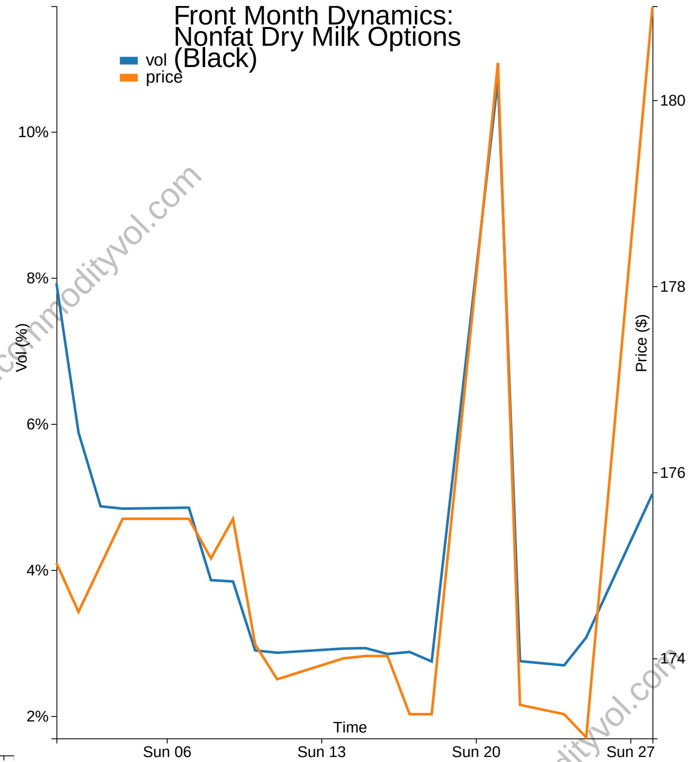


Front Month Skews:
Feeder Cattle Options
(Black)
Start 2022-02-01
Today 2022-02-28

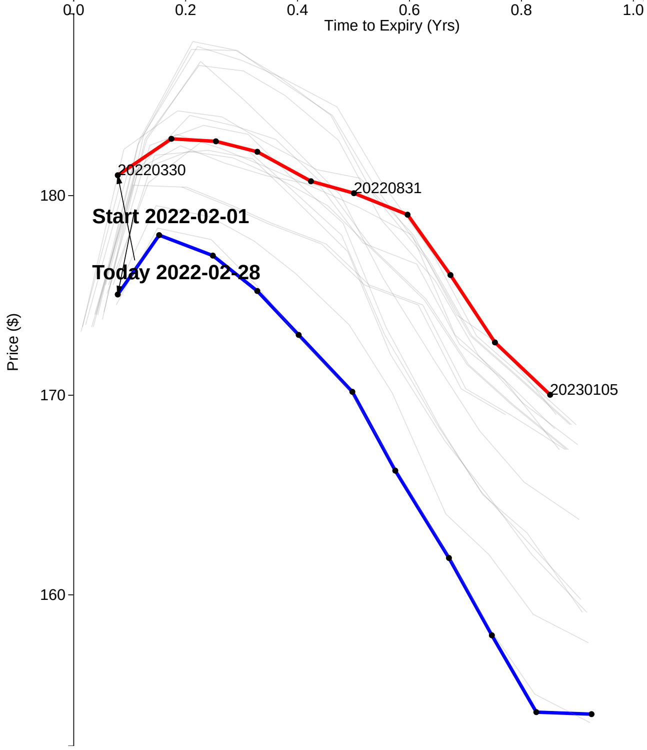

Termstructure Evolution:
Live Cattle Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220401
20221007
20230406
Vol (%)
Time to Expiry (Yrs)
Front Month Dynamics:
Live Cattle Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
Price ($)
Today 2022-02-28
Start 2022-02-01
20220401
20221007
20230406
Front Month Skews:
Live Cattle Options
(Black)
Today 2022-02-28
Start 2022-02-01



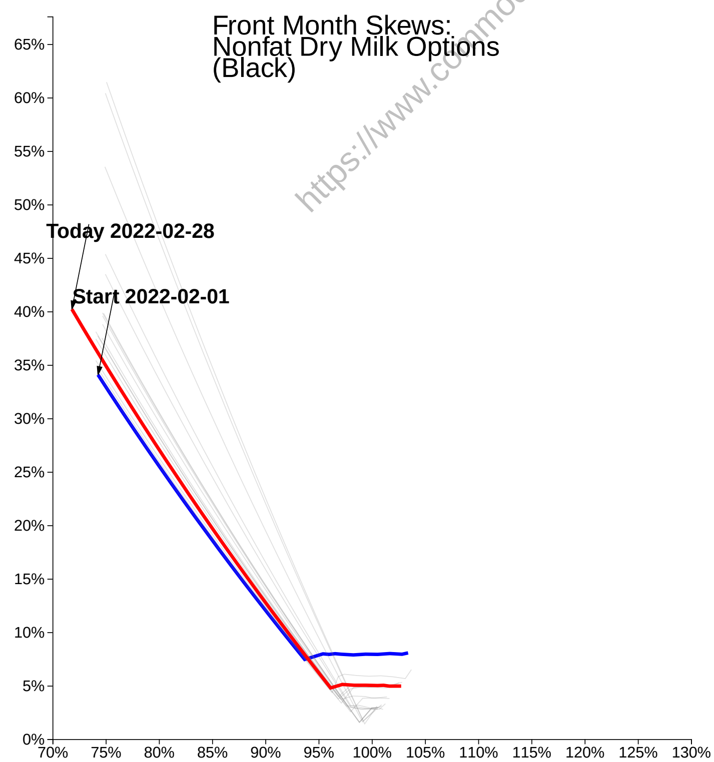
Termstructure Evolution:
Nonfat Dry Milk Options
(Black)
Vol (%)
Time to Expiry (Yrs)
20220330
20220831
20230105
Start 2022-02-01
Today 2022-02-28



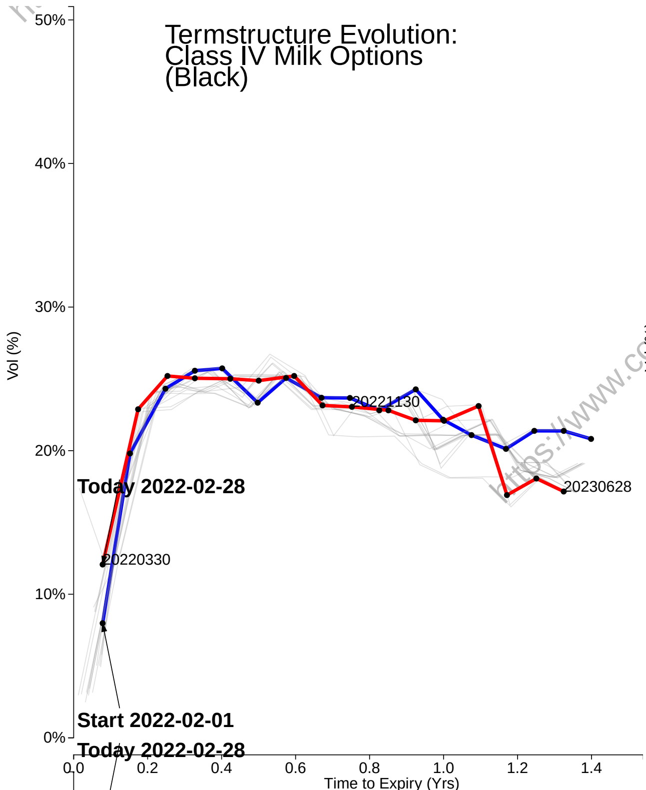
Front Month Dynamics:
Nonfat Dry Milk Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

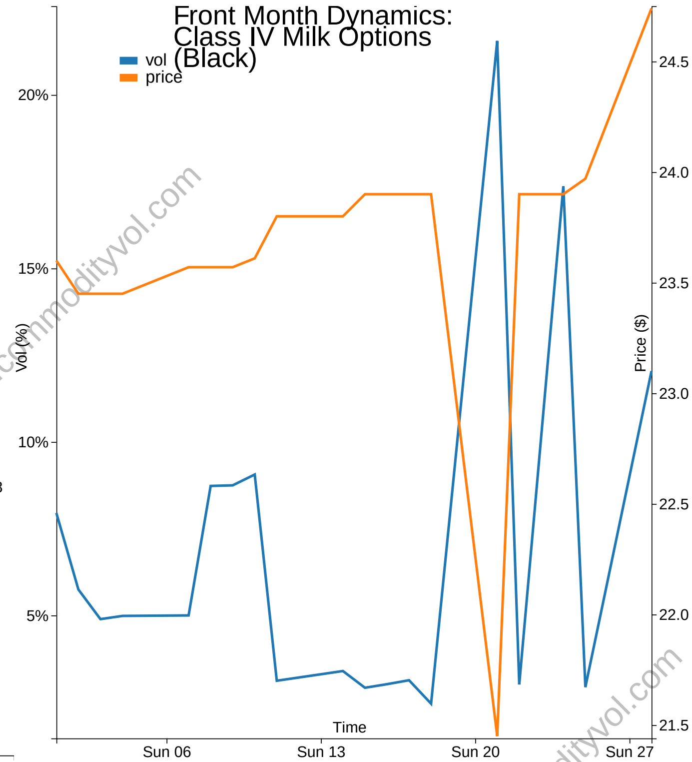


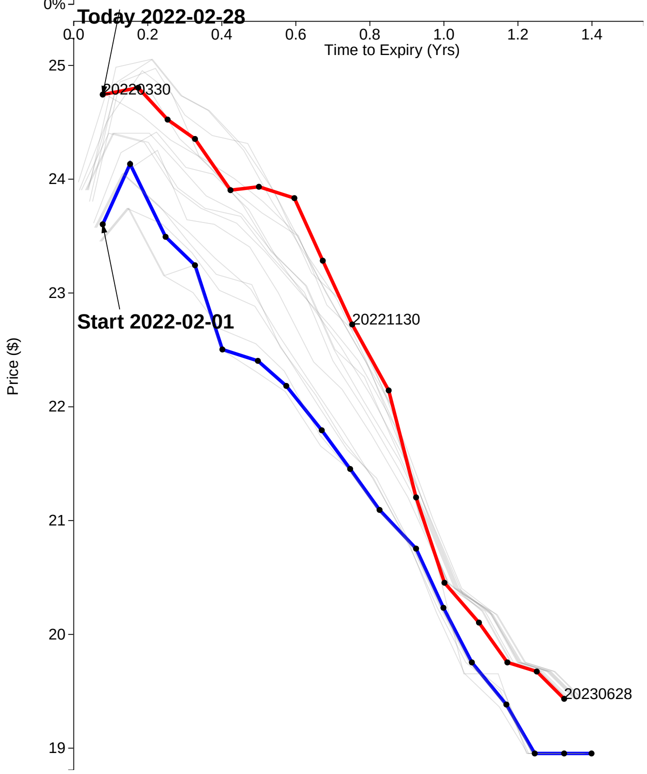
Price ($)
20220330
20220831
20230105
Start 2022-02-01
Today 2022-02-28

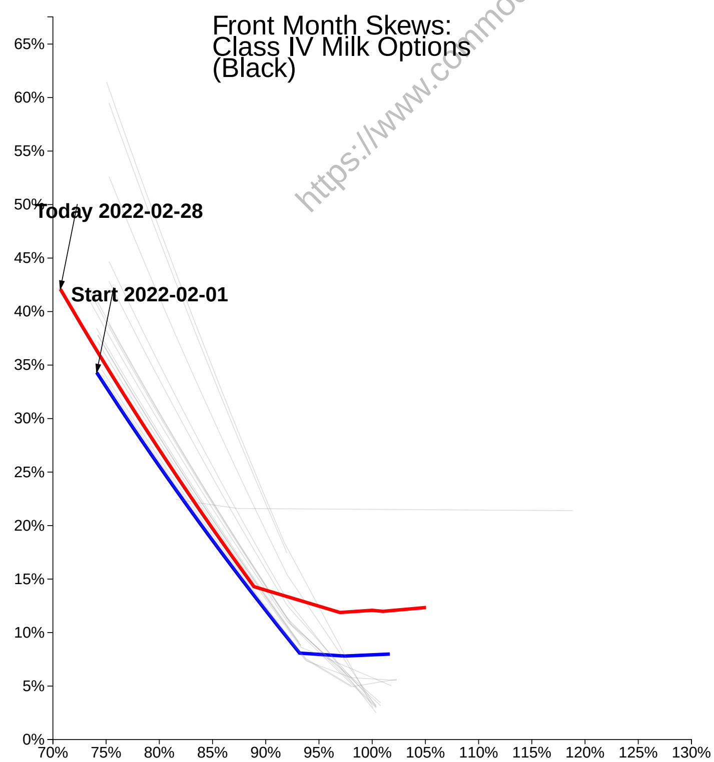


Front Month Skews:
Nonfat Dry Milk Options
(Black)
Today 2022-02-28
Start 2022-02-01

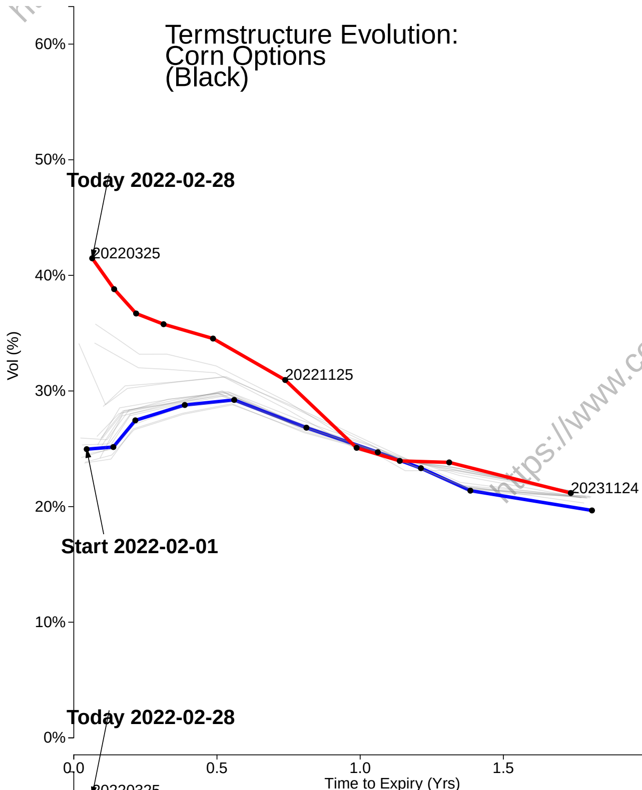

Termstructure Evolution:
Class IV Milk Options
(Black)
Vol (%)
Time to Expiry (Yrs)
Today 2022-02-28
Start 2022-02-01
20220330
20221130
20230628

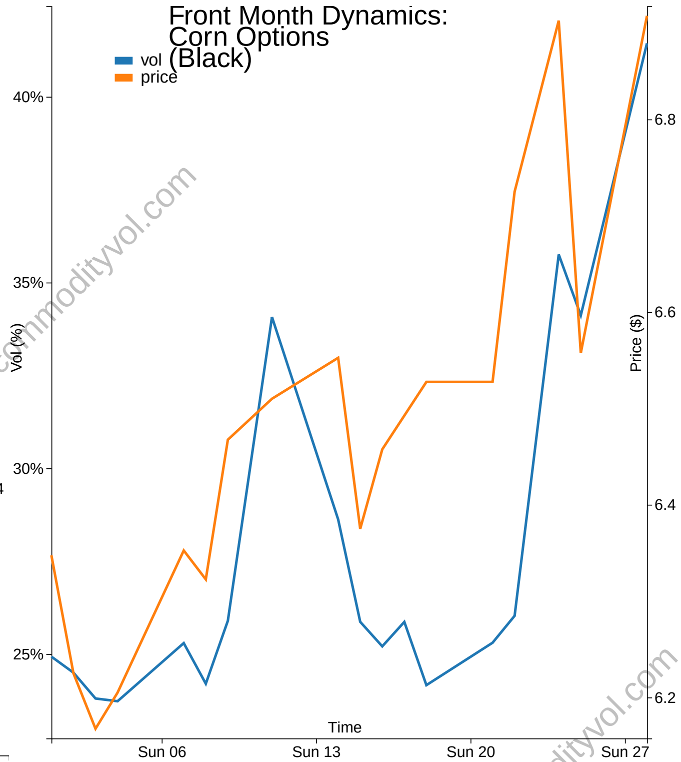

Front Month Dynamics:
Class IV Milk Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

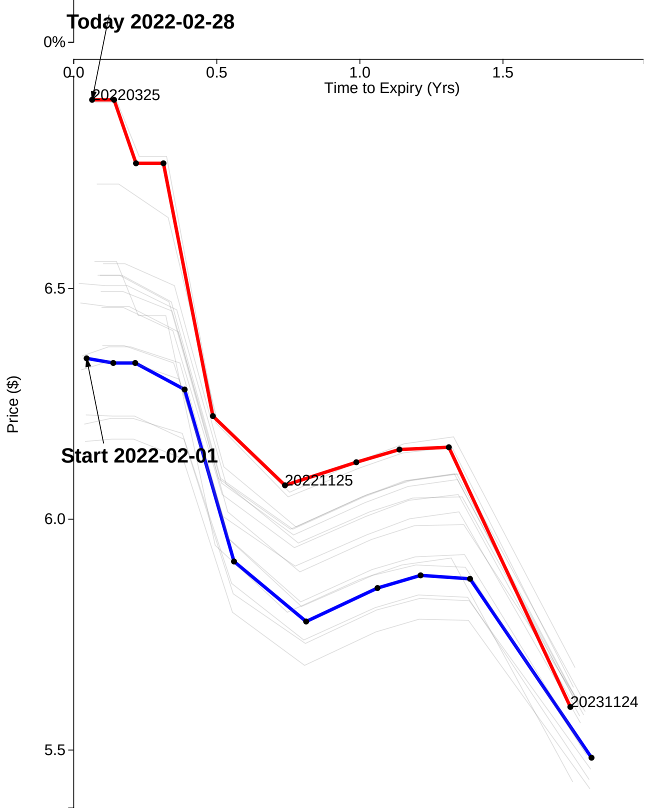

Price ($)
Today 2022-02-28
Start 2022-02-01
20220330
20221130
20230628

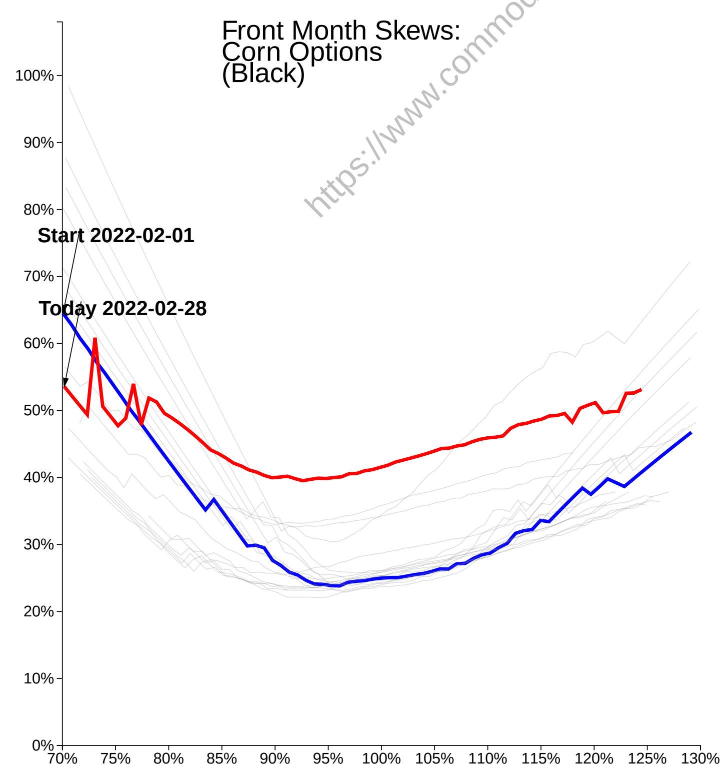

Front Month Skews:
Class IV Milk Options
(Black)
Today 2022-02-28
Start 2022-02-01

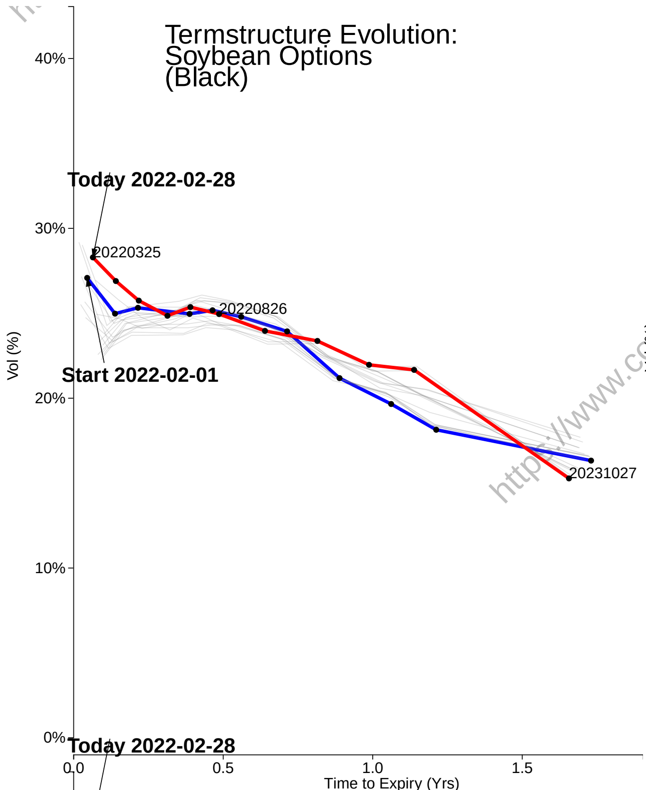
Ags, Grains, Softs and so forth

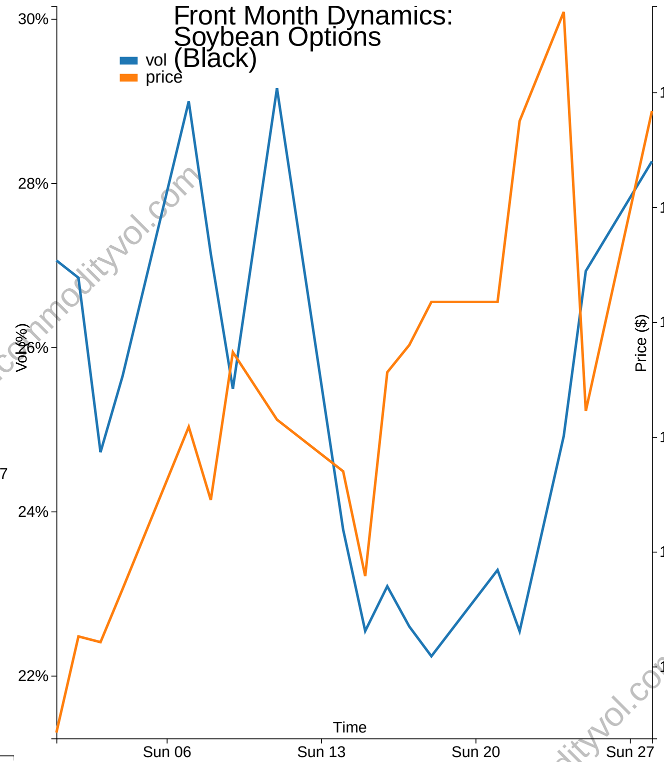

Termstructure Evolution:
Corn Options
(Black)
Vol (%)
60%
50%
40%
30%
20%
10%
0%
Today 2022-02-28
20220325
20221125
20231124
Start 2022-02-01
0.0
0.5
1.0
1.5
Time to Expiry (Yrs)

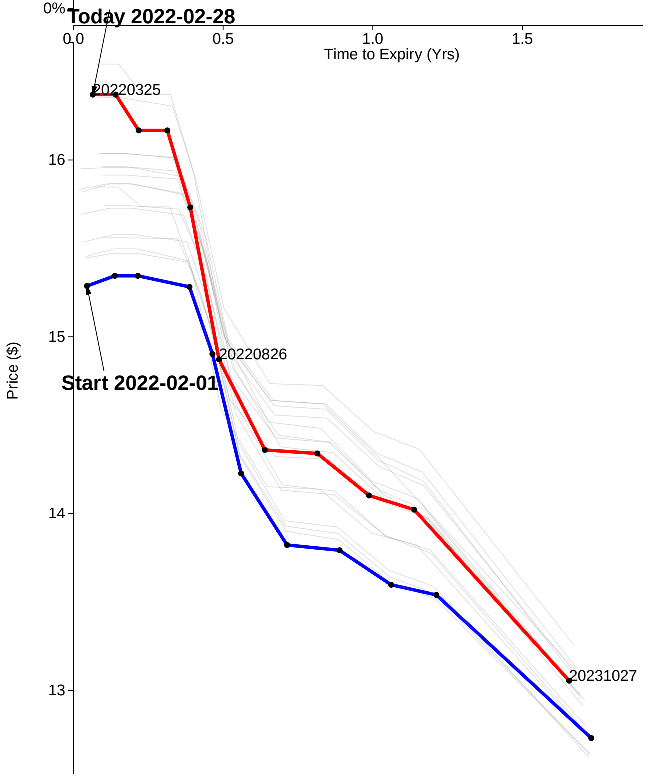

Front Month Dynamics:
Corn Options
(Black)
vol
price
Vol (%)
40%
35%
30%
25%
Price ($)
6.8
6.6
6.4
6.2
Time
Sun 06
Sun 13
Sun 20
Sun 27

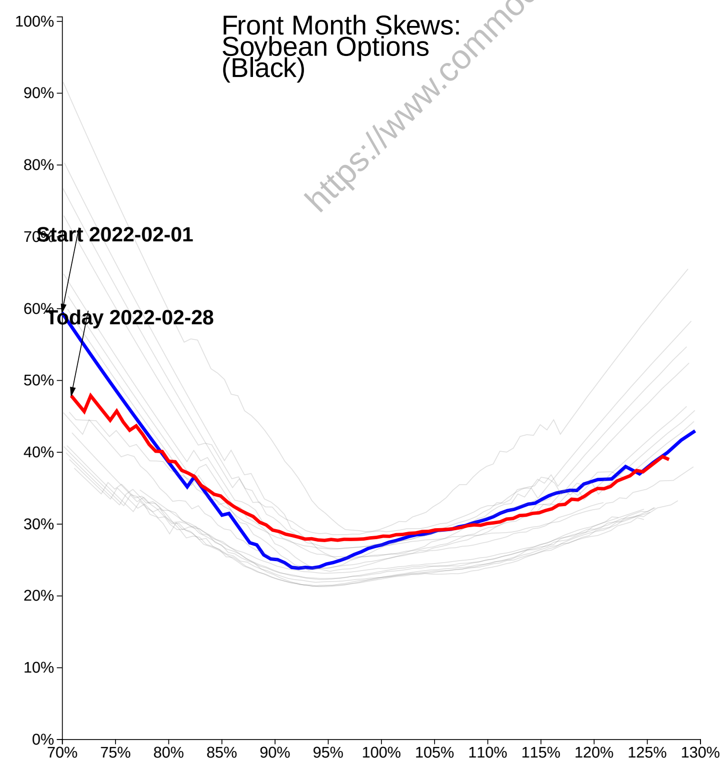

Today 2022-02-28
20220325
Price ($)
6.5
6.0
5.5
Start 2022-02-01
20221125
20231124

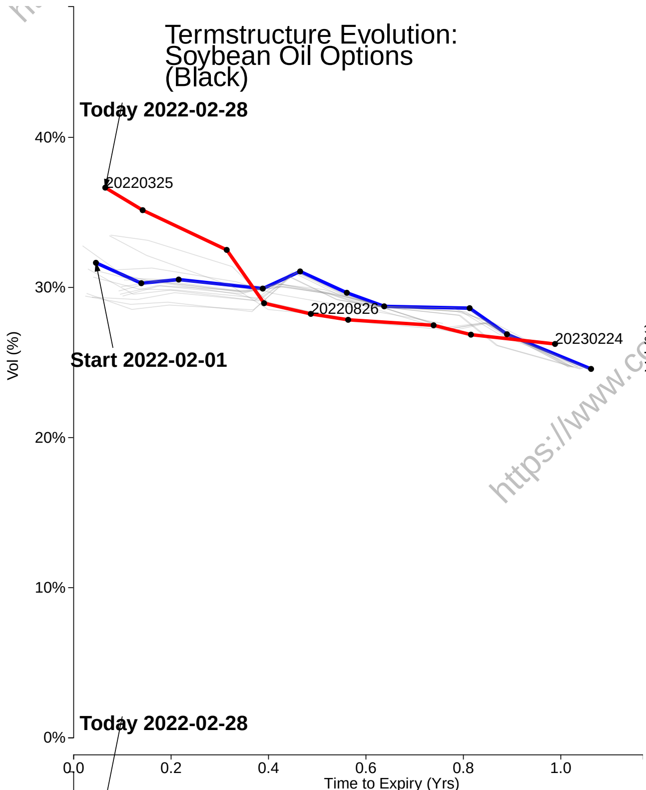

Front Month Skews:
Corn Options
(Black)
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Start 2022-02-01
Today 2022-02-28
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

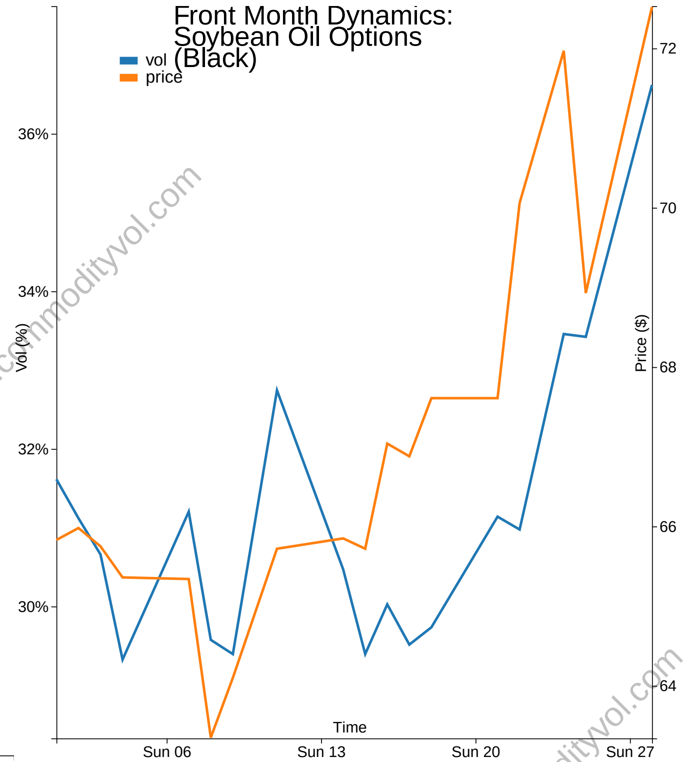

Termstructure Evolution:
Soybean Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220826
20231027
Vol (%)
Time to Expiry (Yrs)
0%
10%
20%
30%
40%
0.0
0.5
1.0
1.5

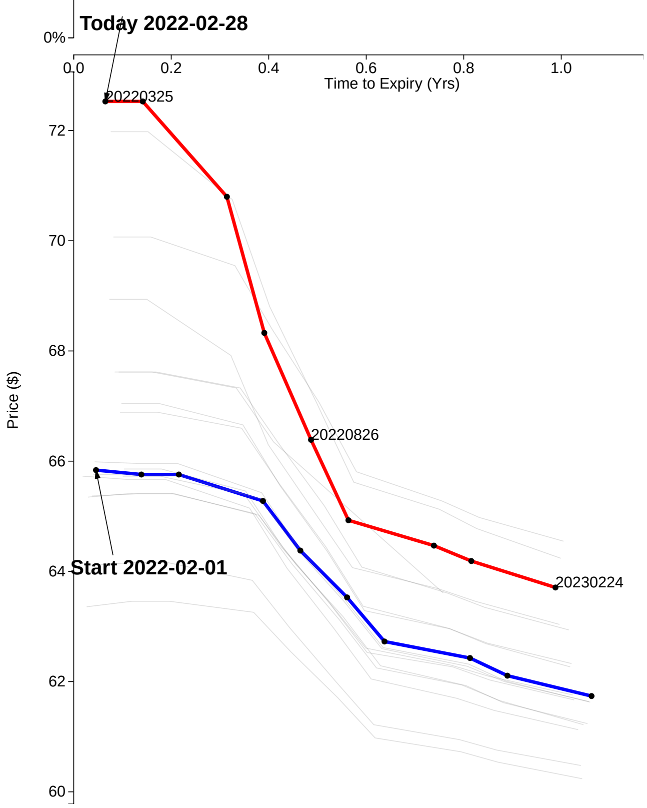

Front Month Dynamics:
Soybean Options
(Black)
vol
price
Vol (%)
Price ($)
Time
22%
24%
26%
28%
30%
15.4
15.6
15.8
16.0
16.2
16.4
Sun 06
Sun 13
Sun 20
Sun 27

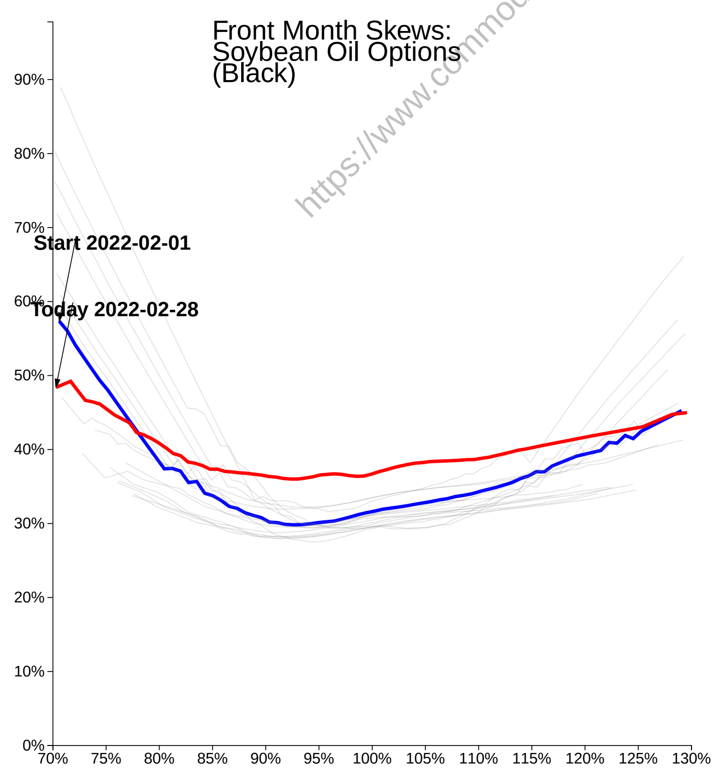

Today 2022-02-28
Start 2022-02-01
20220325
20220826
20231027
Price ($)
13
14
15
16

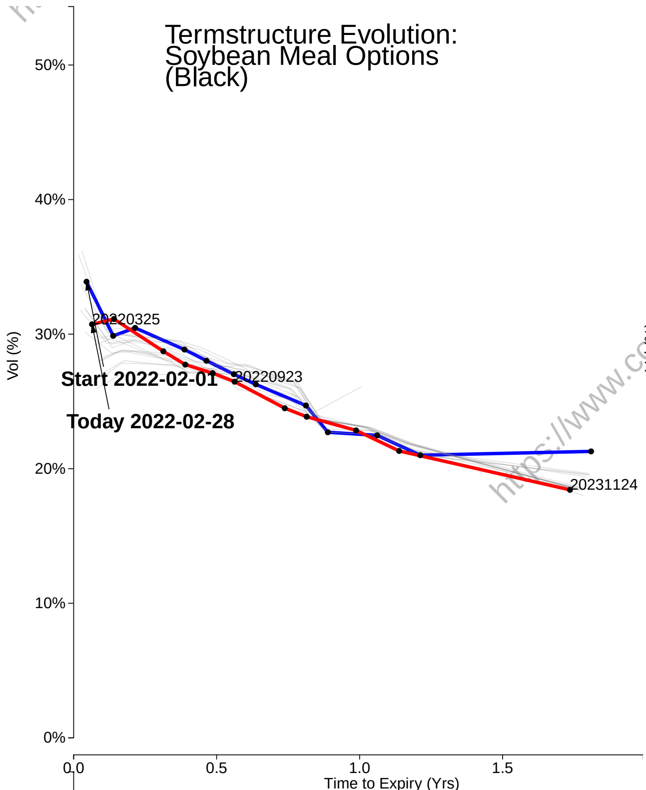

Front Month Skews:
Soybean Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

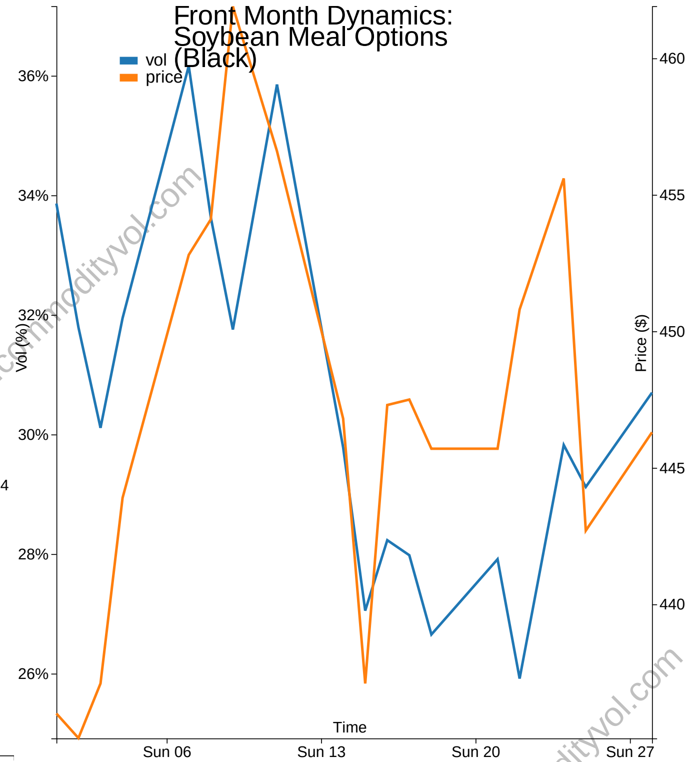

Termstructure Evolution:
Soybean Oil Options
(Black)
Today 2022-02-28
20220325
20220826
20230224
Start 2022-02-01
Vol (%)
0%
10%
20%
30%
40%
0.0
0.2
0.4
0.6
0.8
1.0
Time to Expiry (Yrs)

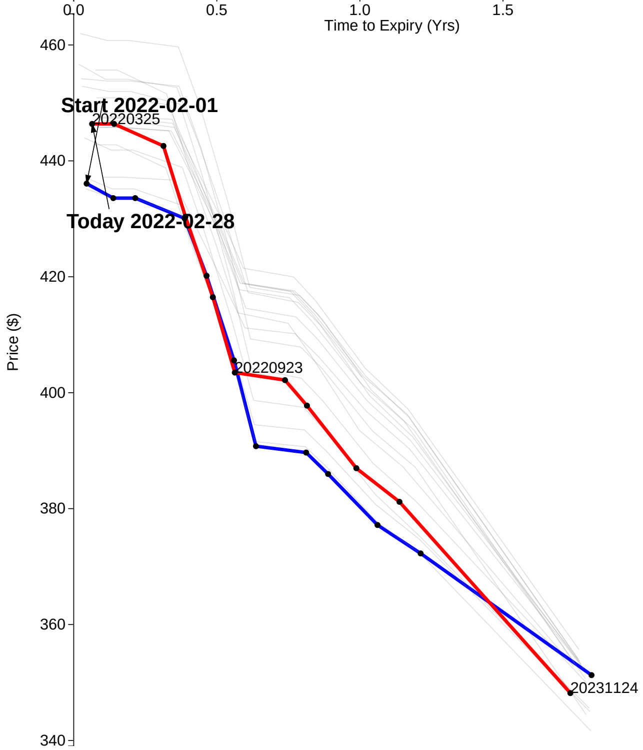

Front Month Dynamics:
Soybean Oil Options
(Black)
vol
price
Vol (%)
30%
32%
34%
36%
Price ($)
64
66
68
70
72
Time
Sun 06
Sun 13
Sun 20
Sun 27
https://www.commodityvol.com

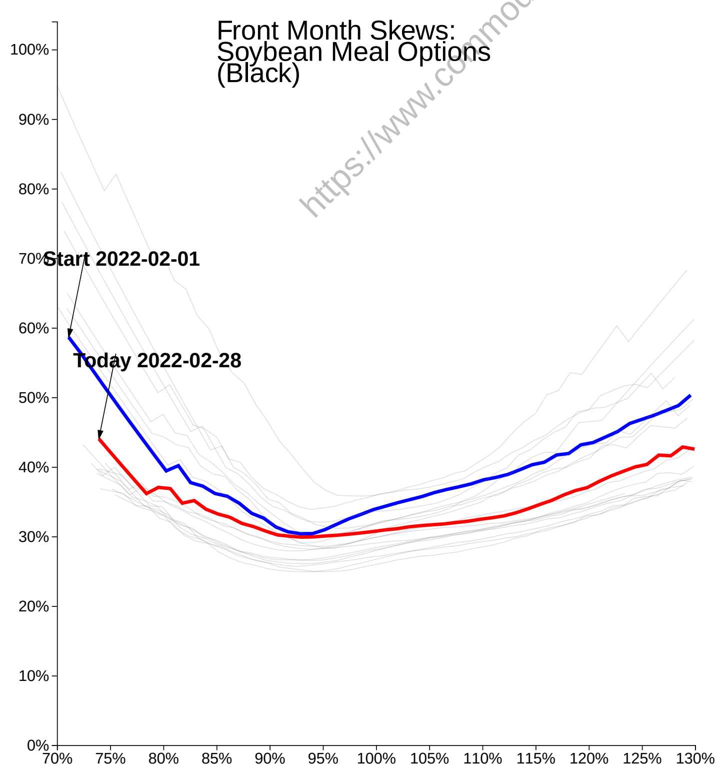

Today 2022-02-28
20220325
20220826
20230224
Start 2022-02-01
Price ($)
60
62
64
66
68
70
72

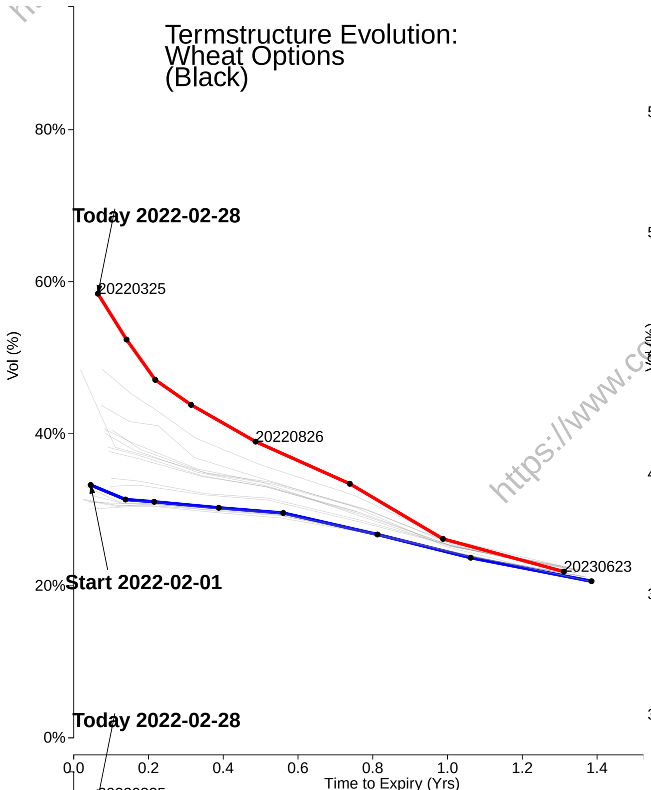

Front Month Skews:
Soybean Oil Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%
https://www.commodityvol.com

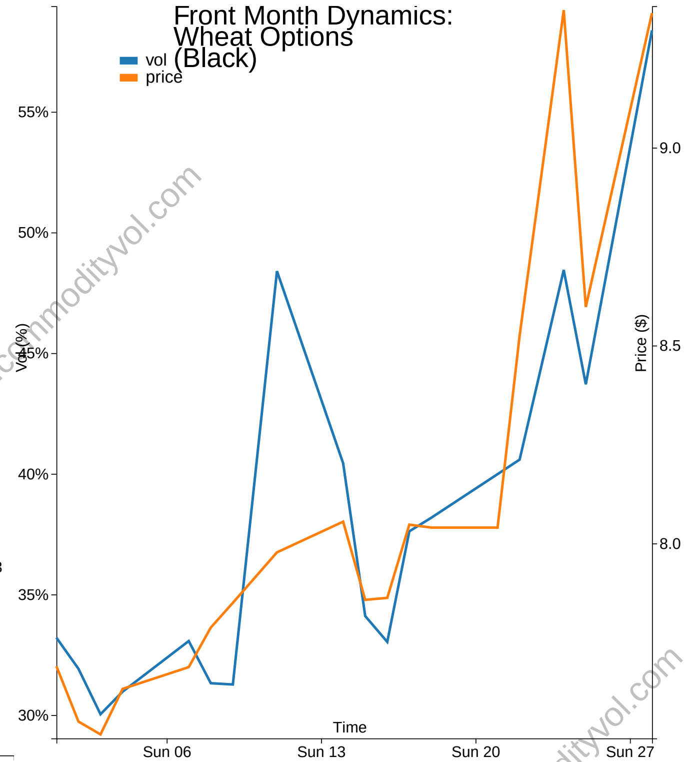

Termstructure Evolution:
Soybean Meal Options
(Black)
Vol (%)
Time to Expiry (Yrs)
20220325
20220923
20231124
Start 2022-02-01
Today 2022-02-28

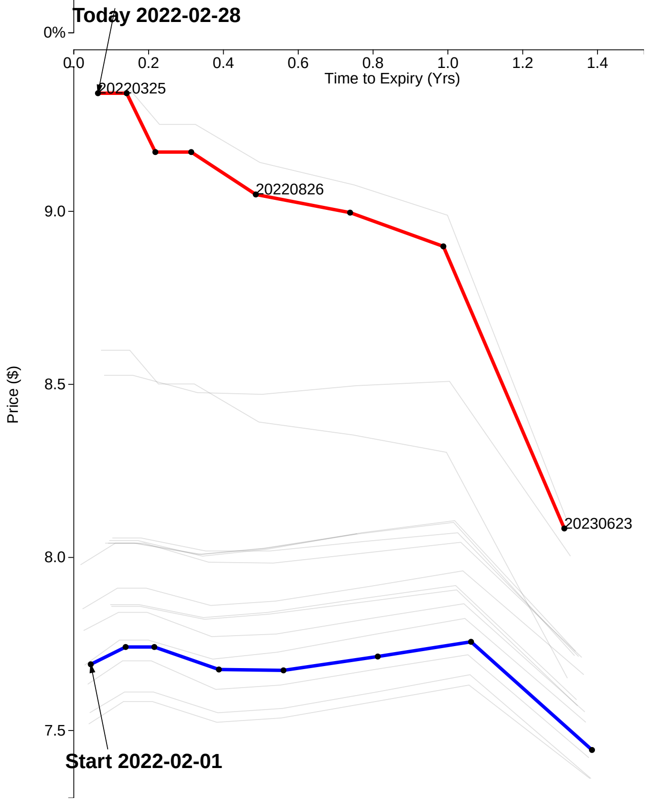

Front Month Dynamics:
Soybean Meal Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

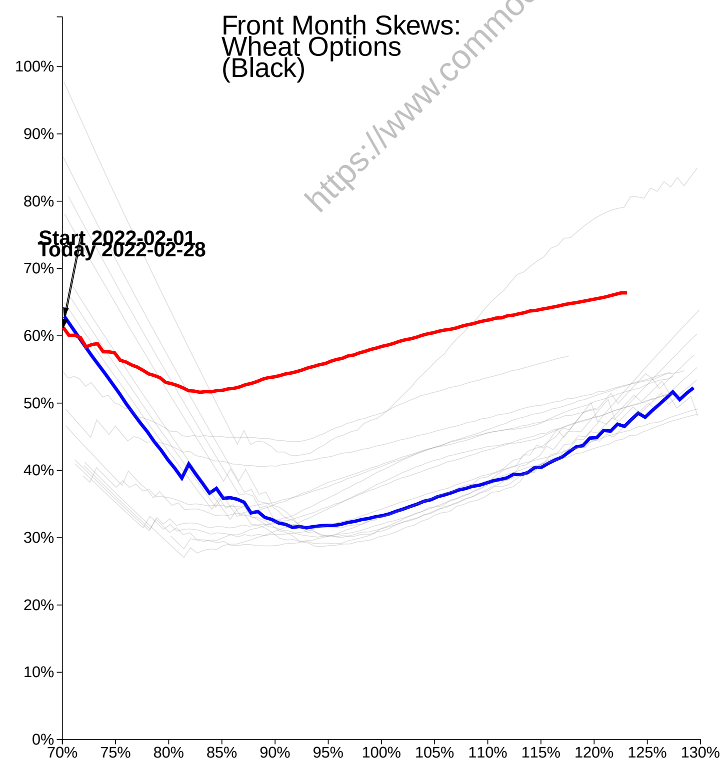

Price ($)
Start 2022-02-01
Today 2022-02-28
20220325
20220923
20231124

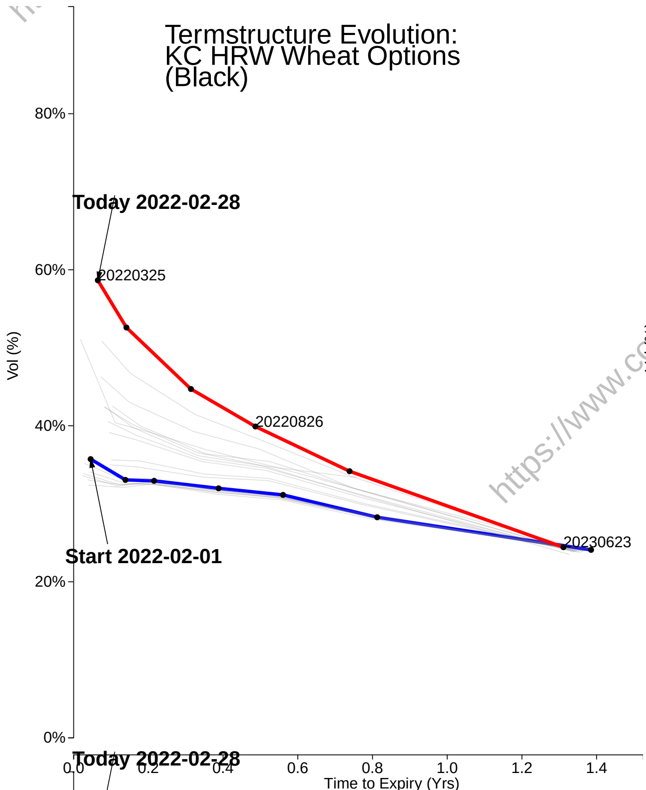

Front Month Skews:
Soybean Meal Options
(Black)
Start 2022-02-01
Today 2022-02-28

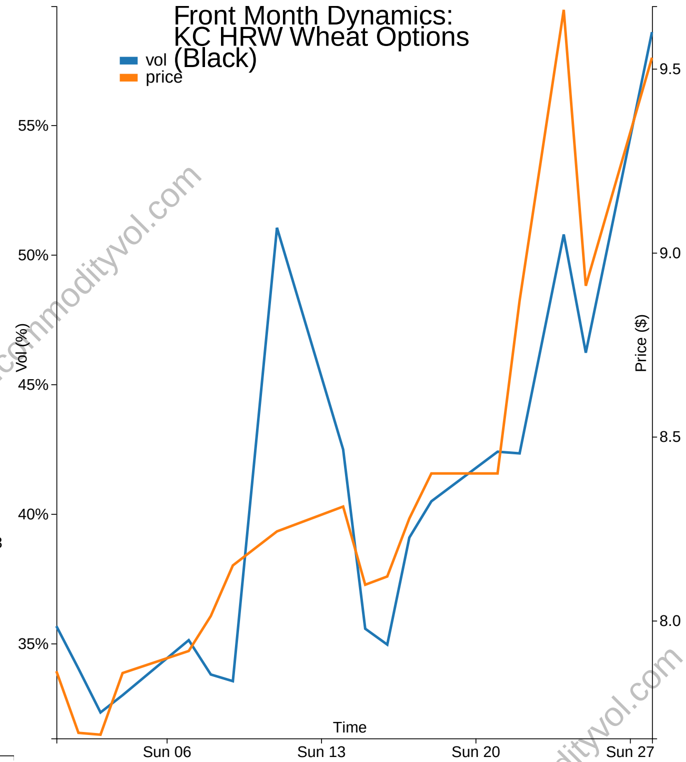

Termstructure Evolution:
Wheat Options
(Black)
Today 2022-02-28
20220325
20220826
20230623
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)
0%
20%
40%
60%
80%
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4

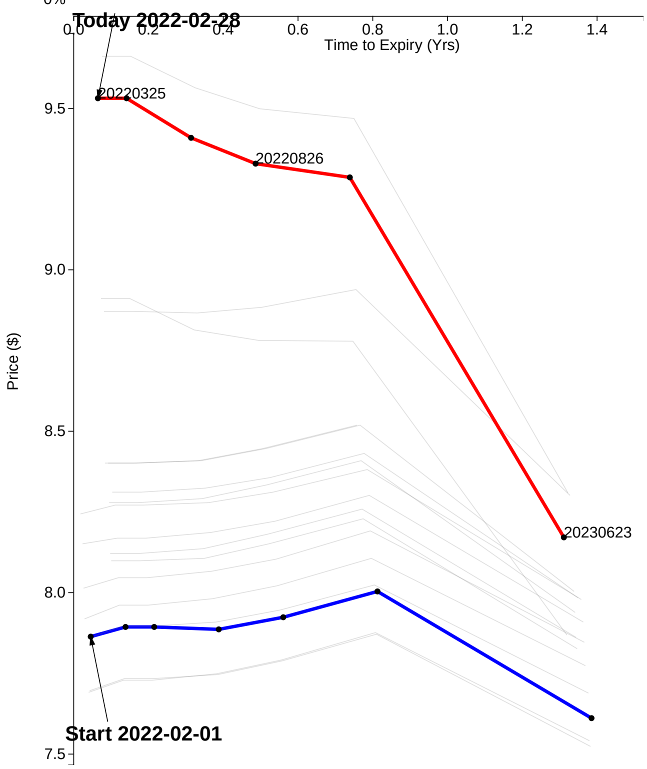

Front Month Dynamics:
Wheat Options
(Black)
vol
price
Vol (%)
Price ($)
Time
30%
35%
40%
45%
50%
55%
8.0
8.5
9.0
Sun 06
Sun 13
Sun 20
Sun 27

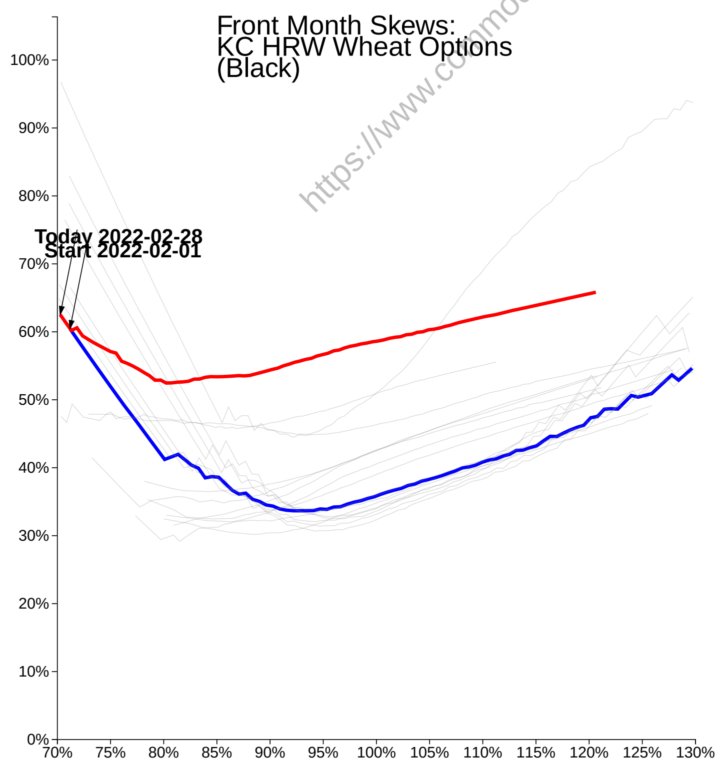

Today 2022-02-28
20220325
20220826
20230623
Start 2022-02-01
Price ($)
7.5
8.0
8.5
9.0

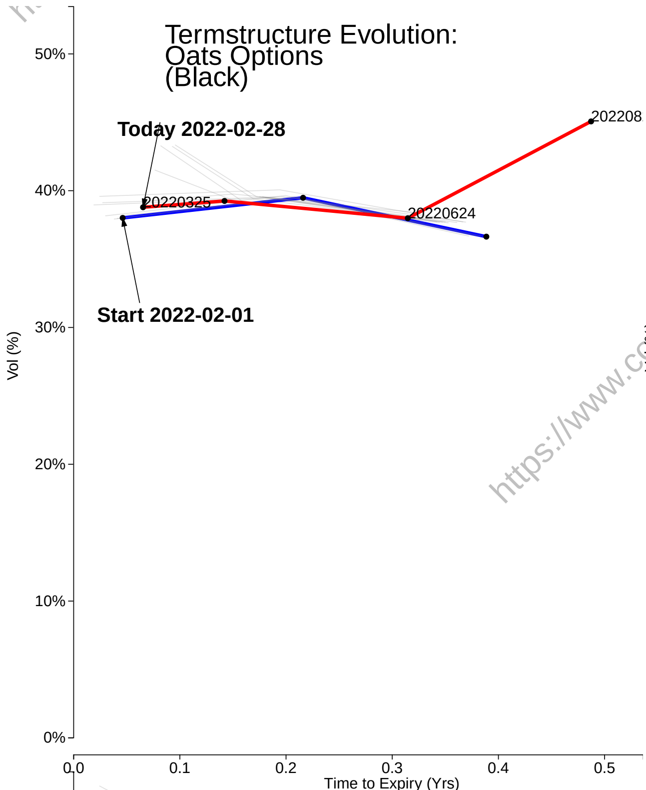

Front Month Skews:
Wheat Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
10%
20%
30%
40%
50%
60%
70%
80%
90%
100%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

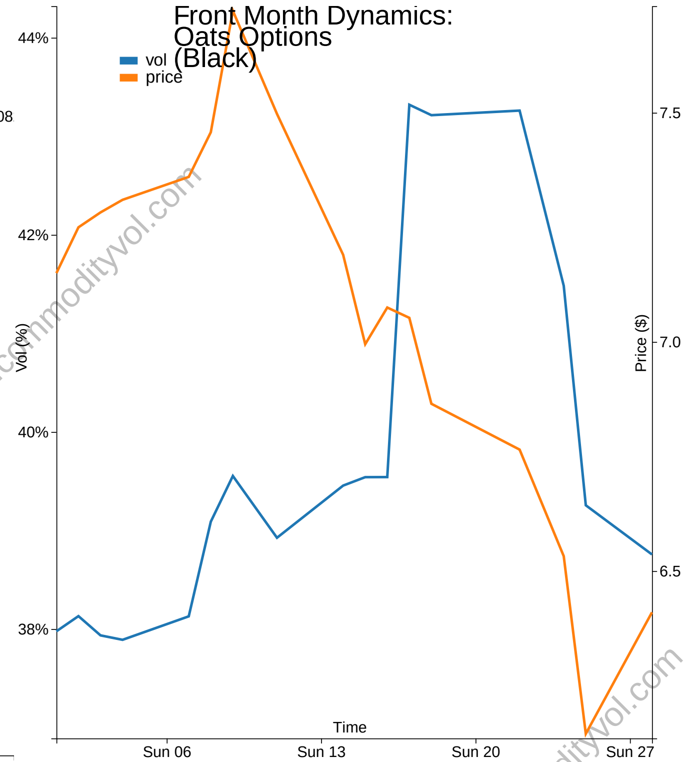

Termstructure Evolution:
KC HRW Wheat Options
(Black)
Today 2022-02-28
20220325
20220826
20230623
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)

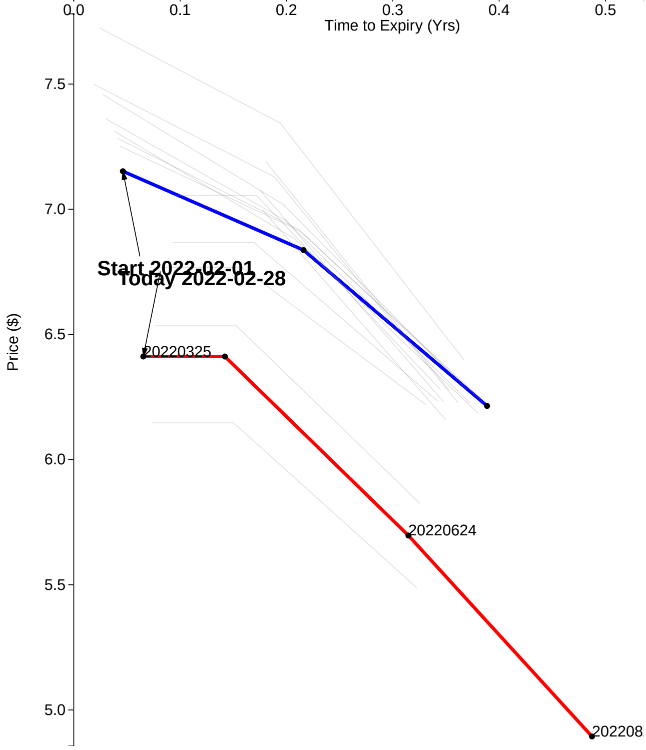

Front Month Dynamics:
KC HRW Wheat Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

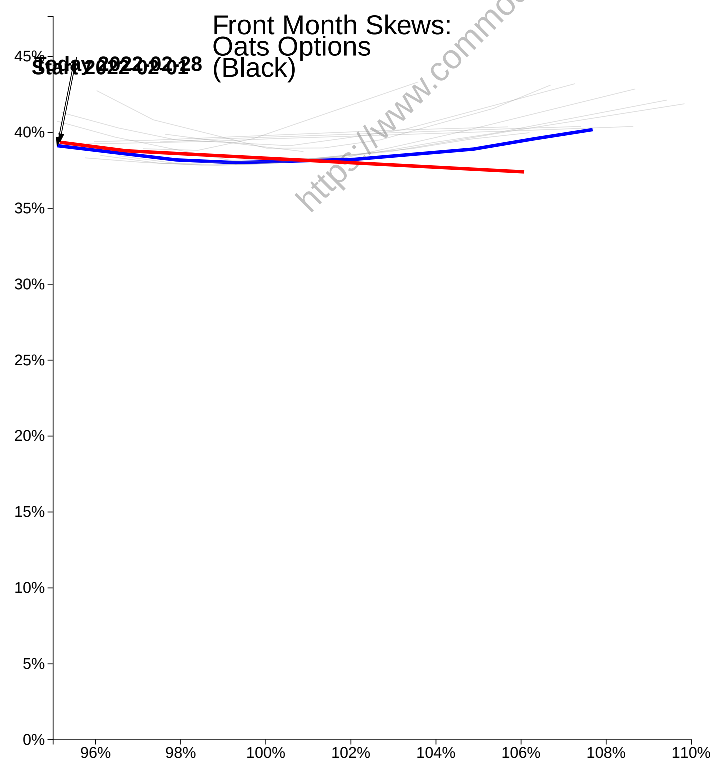

Today 2022-02-28
20220325
20220826
20230623
Start 2022-02-01
Price ($)

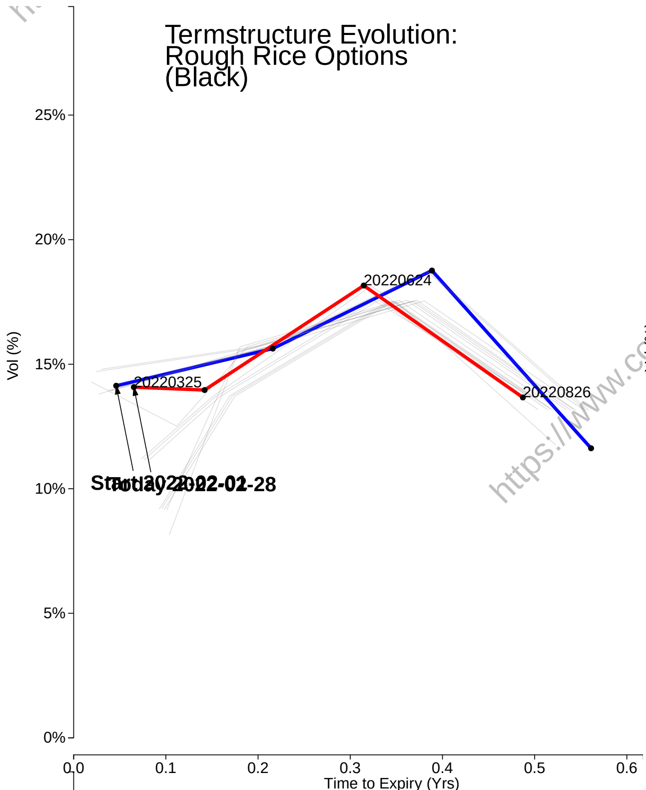

Front Month Skews:
KC HRW Wheat Options
(Black)
Today 2022-02-28
Start 2022-02-01

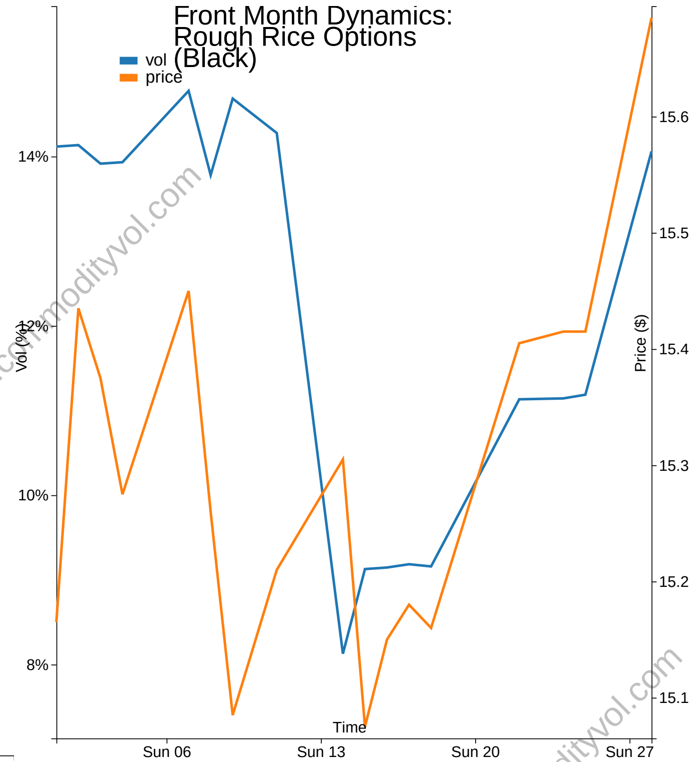

Termstructure Evolution:
Oats Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220624
202208
Vol (%)
Time to Expiry (Yrs)

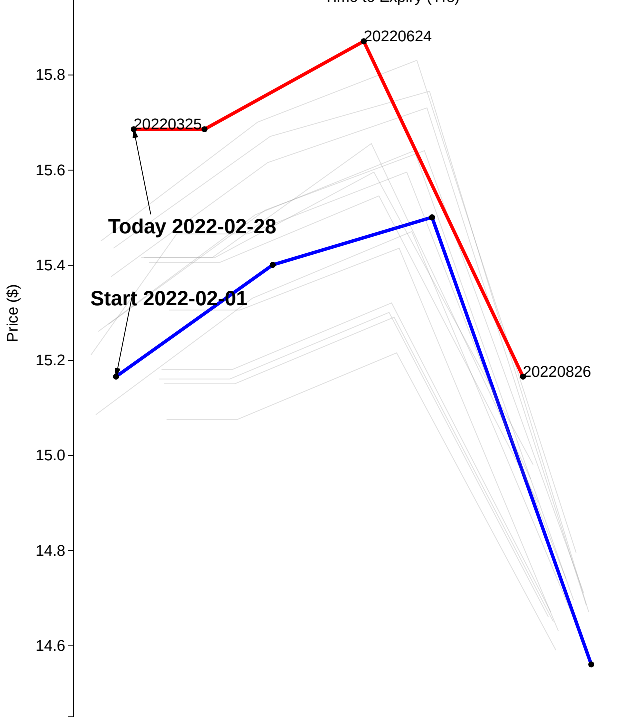

Front Month Dynamics:
Oats Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

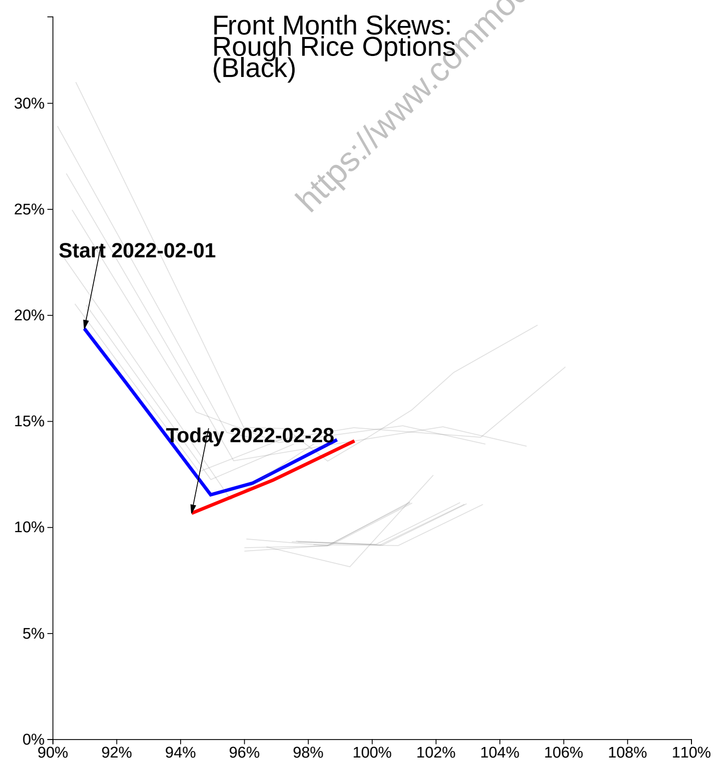

Start 2022-02-01
Today 2022-02-28
20220325
20220624
202208
Price ($)

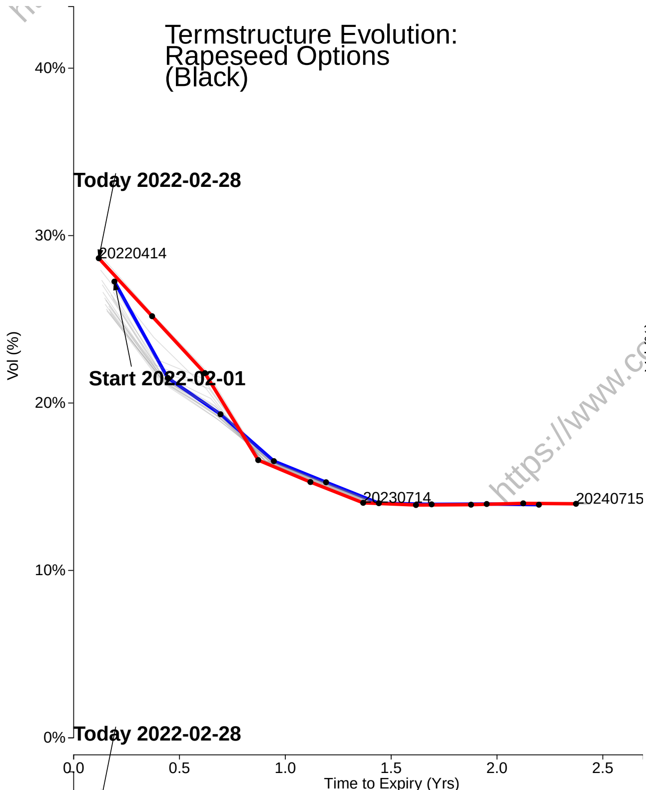

Front Month Skews:
Oats Options
(Black)
Today 2022-02-28
Start 2022-02-01

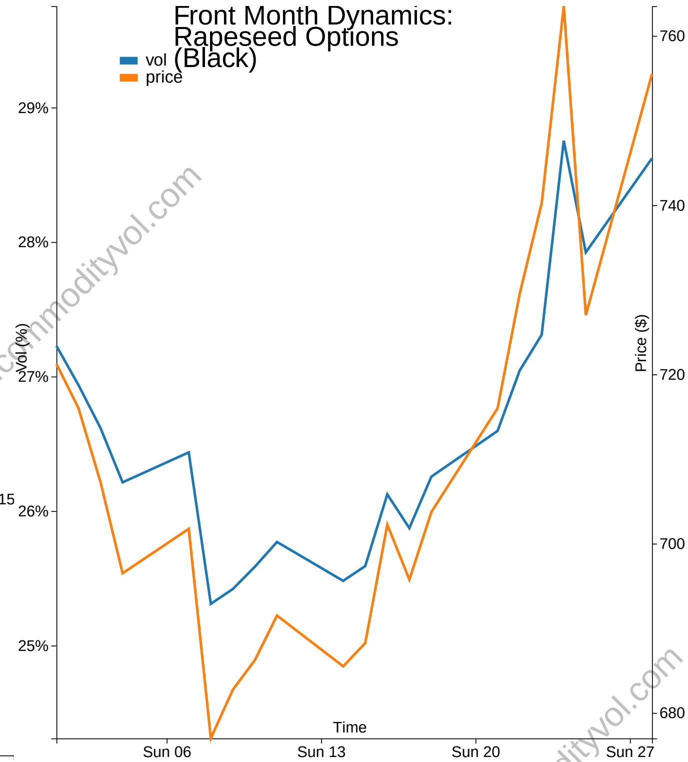

Termstructure Evolution:
Rough Rice Options
(Black)
Vol (%)
Time to Expiry (Yrs)
20220325
20220624
20220826
Start 2022-02-01
Today 2022-02-28
0%
5%
10%
15%
20%
25%
0.0
0.1
0.2
0.3
0.4
0.5
0.6

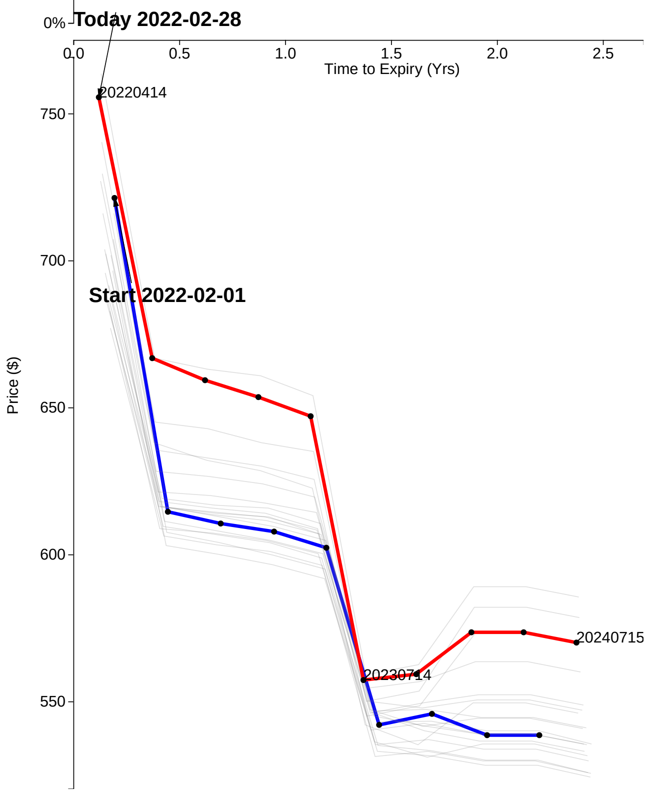

Front Month Dynamics:
Rough Rice Options
(Black)
vol
price
Vol (%)
Price ($)
Time
8%
10%
12%
14%
15.1
15.2
15.3
15.4
15.5
15.6
Sun 06
Sun 13
Sun 20
Sun 27

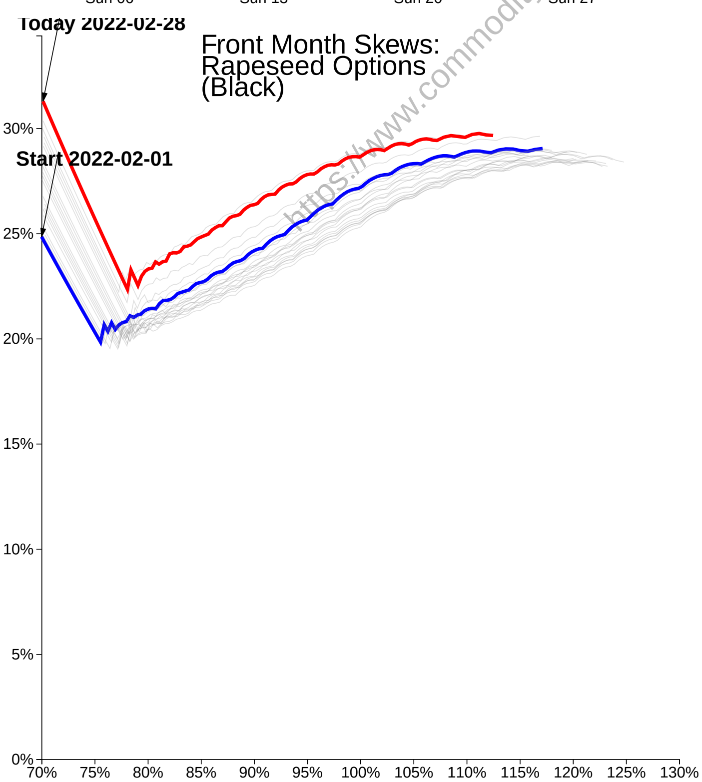

Price ($)
20220325
20220624
20220826
Today 2022-02-28
Start 2022-02-01
14.6
14.8
15.0
15.2
15.4
15.6
15.8


Front Month Skews:
Rough Rice Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
5%
10%
15%
20%
25%
30%
90%
92%
94%
96%
98%
100%
102%
104%
106%
108%
110%

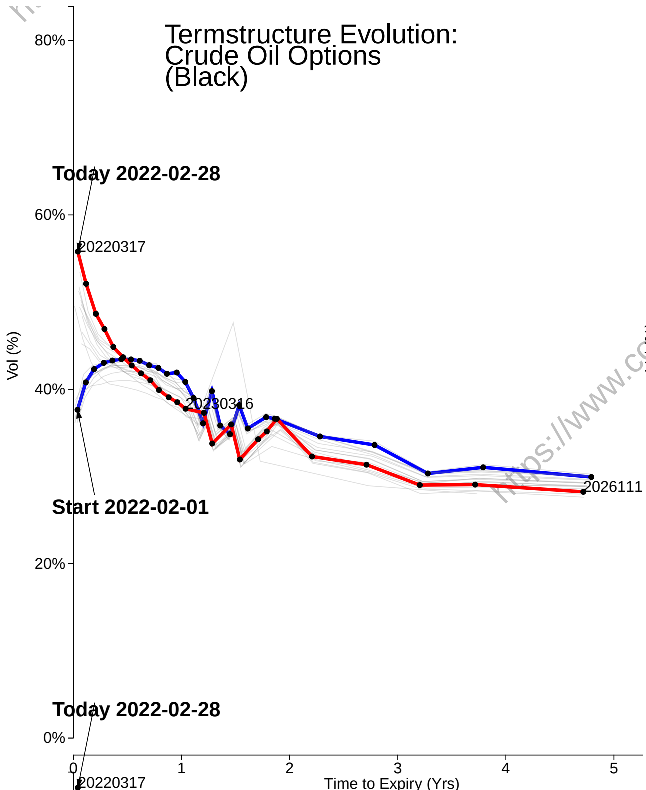

Termstructure Evolution:
Rapeseed Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220414
20230714
20240715
Vol (%)
Time to Expiry (Yrs)
https://www.commodityvol.com

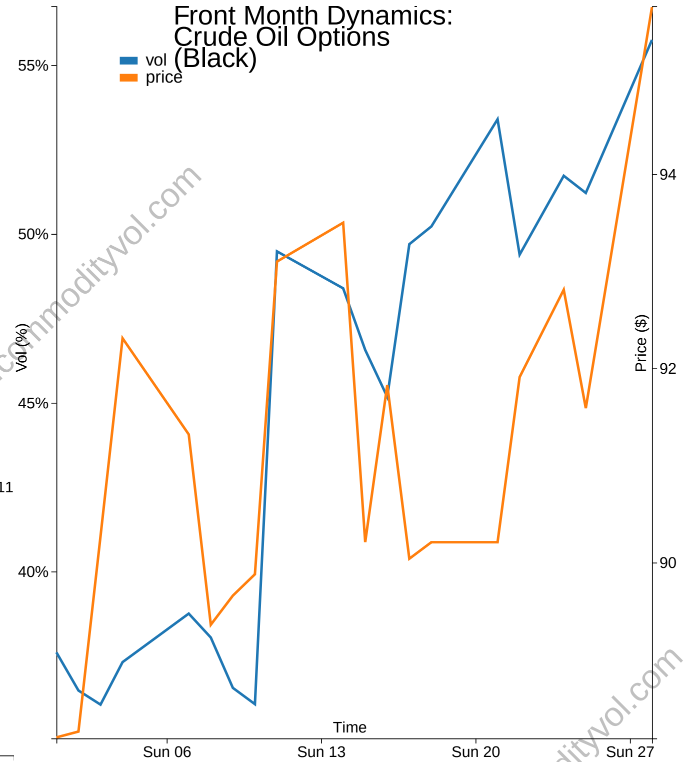

Front Month Dynamics:
Rapeseed Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
https://www.commodityvol.com

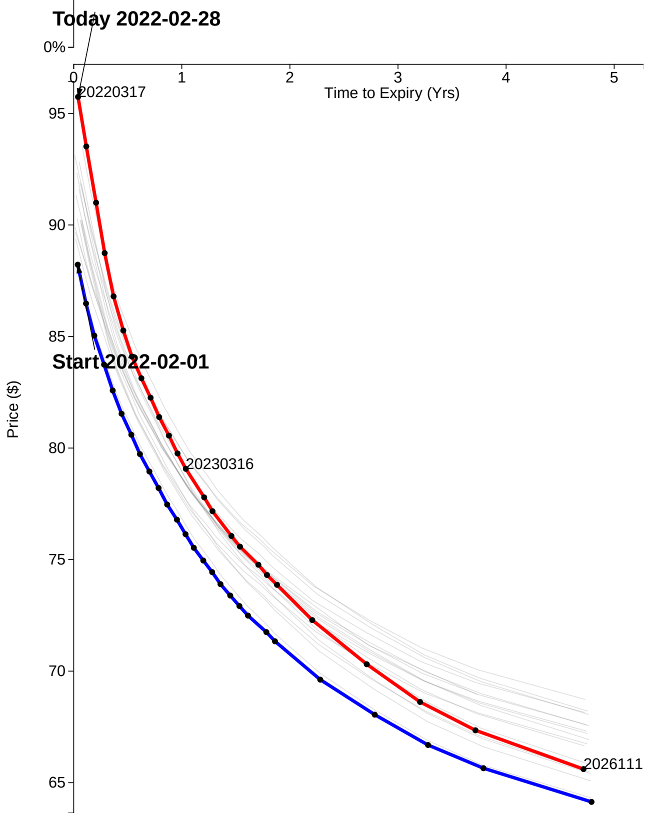

Today 2022-02-28
Start 2022-02-01
20220414
20230714
20240715
Price ($)

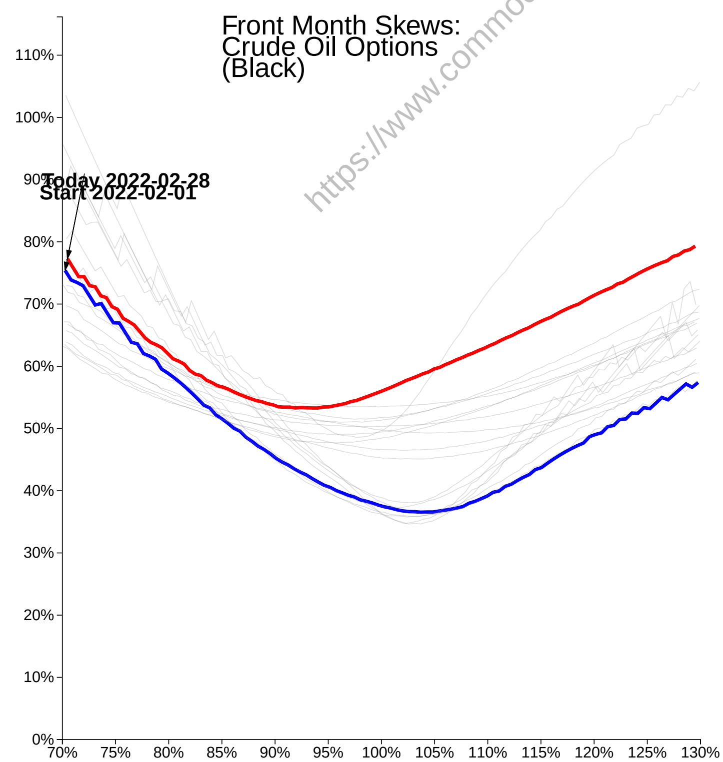

Front Month Skews:
Rapeseed Options
(Black)
Today 2022-02-28
Start 2022-02-01
https://www.commodityvol.com

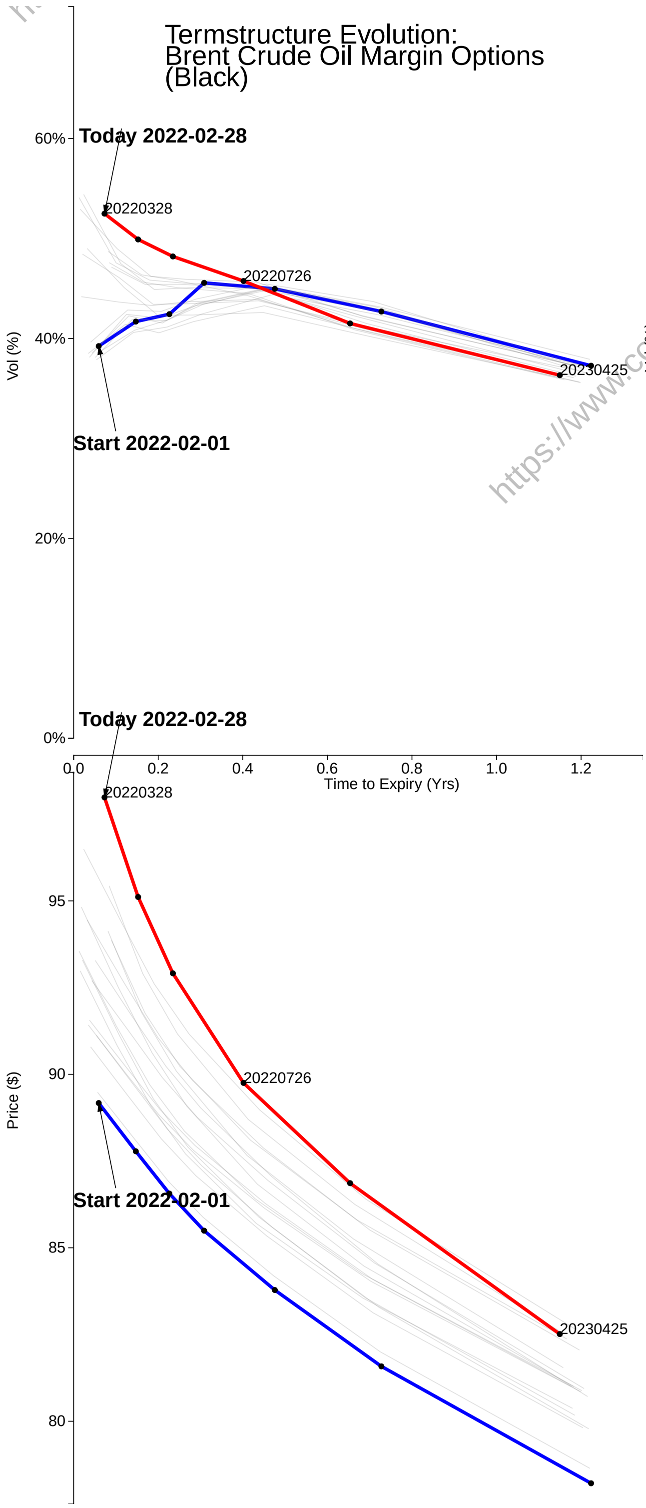
Crude and Derivatives

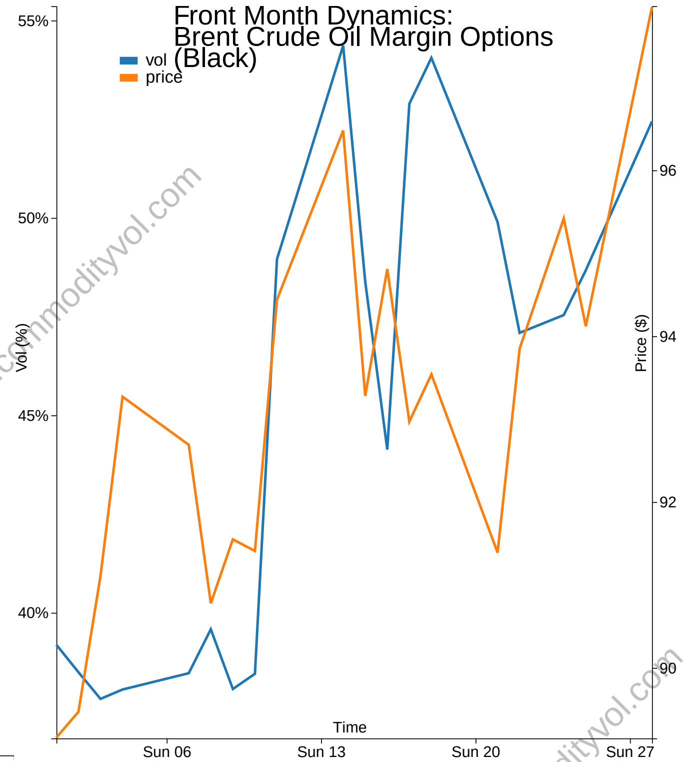

Termstructure Evolution:
Crude Oil Options
(Black)
Today 2022-02-28
20220317
20230316
2026111
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)

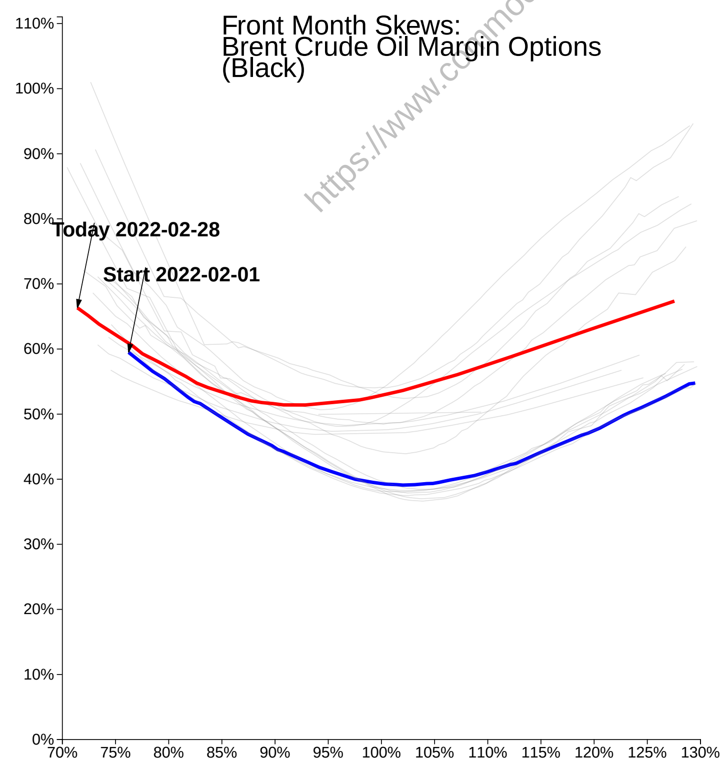

Front Month Dynamics:
Crude Oil Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

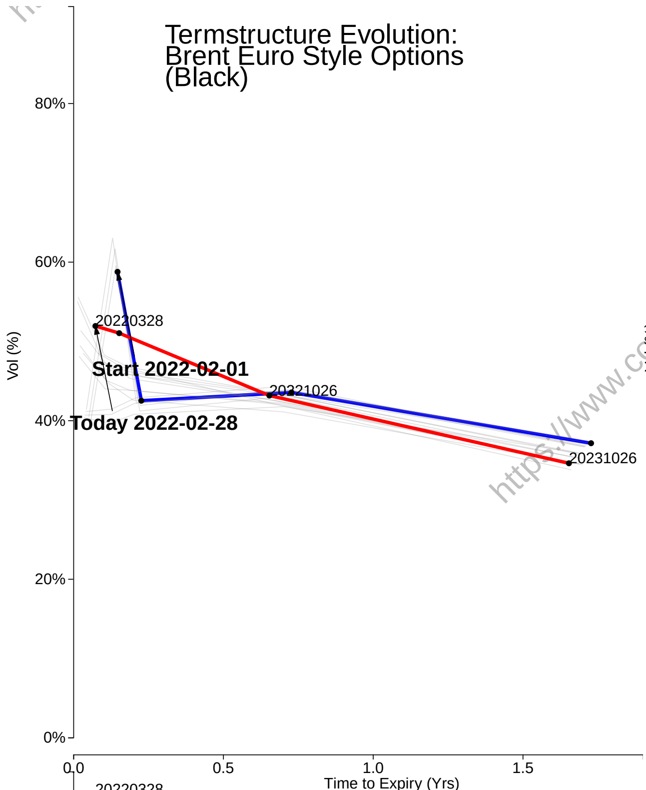

Today 2022-02-28
20220317
Start 2022-02-01
20230316
2026111
Price ($)

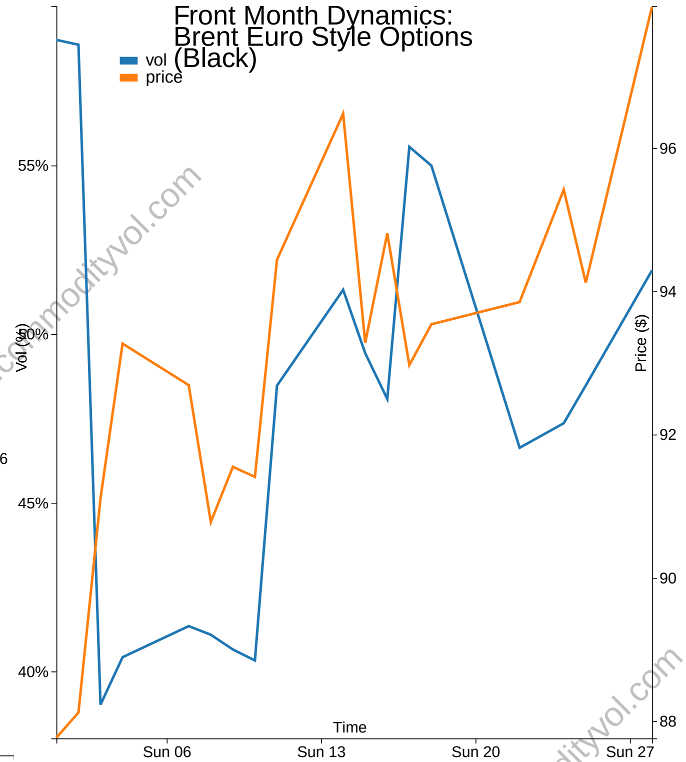

Front Month Skews:
Crude Oil Options
(Black)
Today 2022-02-28
Start 2022-02-01

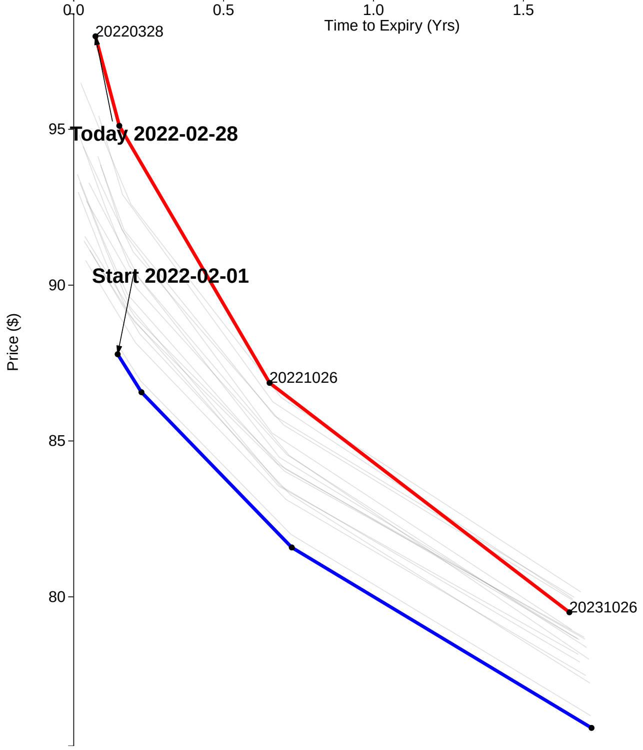

Termstructure Evolution:
Brent Crude Oil Margin Options
(Black)
Today 2022-02-28
20220328
20220726
20230425
Start 2022-02-01
Vol (%)
Time to Expiry (Yrs)
Today 2022-02-28
20220328
20220726
20230425
Start 2022-02-01
Price ($)

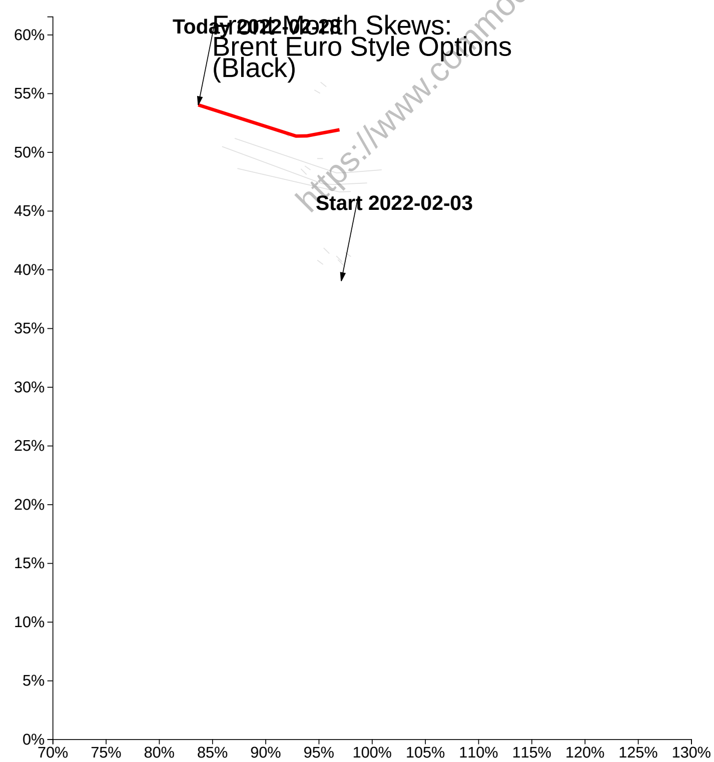

Front Month Dynamics:
Brent Crude Oil Margin Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

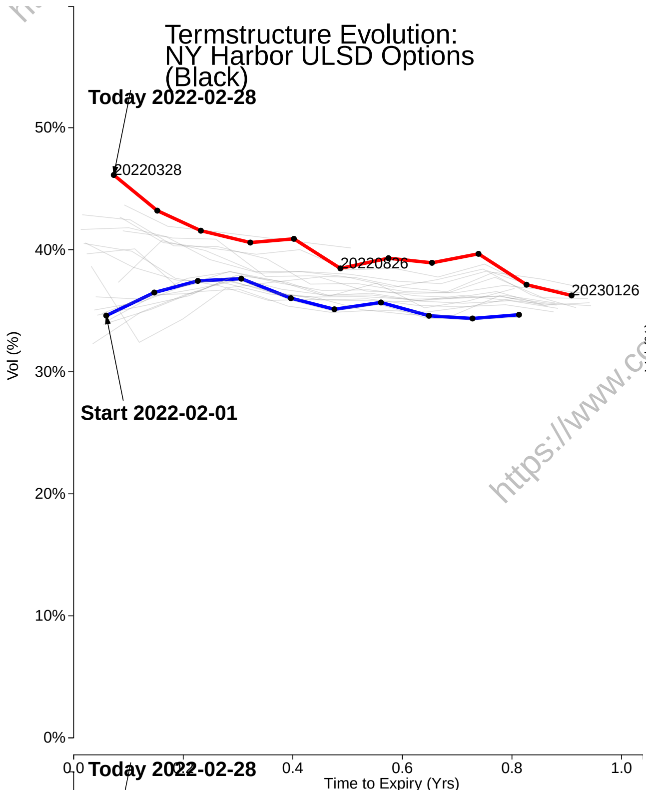

Front Month Skews:
Brent Crude Oil Margin Options
(Black)
Today 2022-02-28
Start 2022-02-01

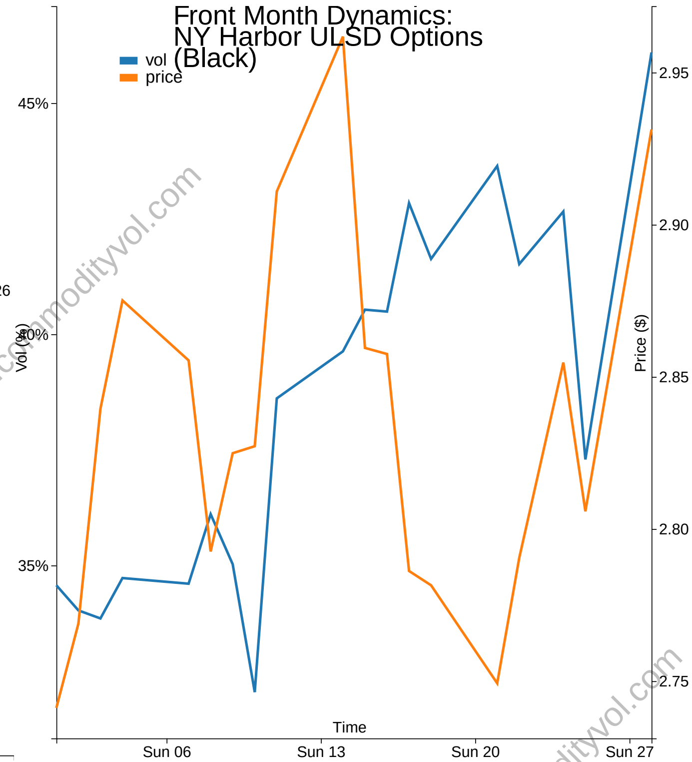

Termstructure Evolution:
Brent Euro Style Options
(Black)
Vol (%)
Time to Expiry (Yrs)
20220328
20221026
20231026
Start 2022-02-01
Today 2022-02-28

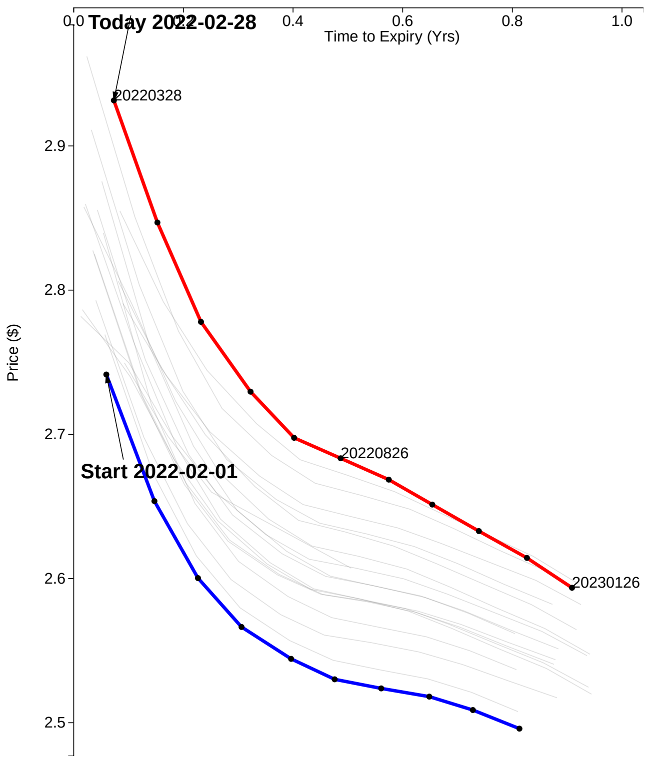

Front Month Dynamics:
Brent Euro Style Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

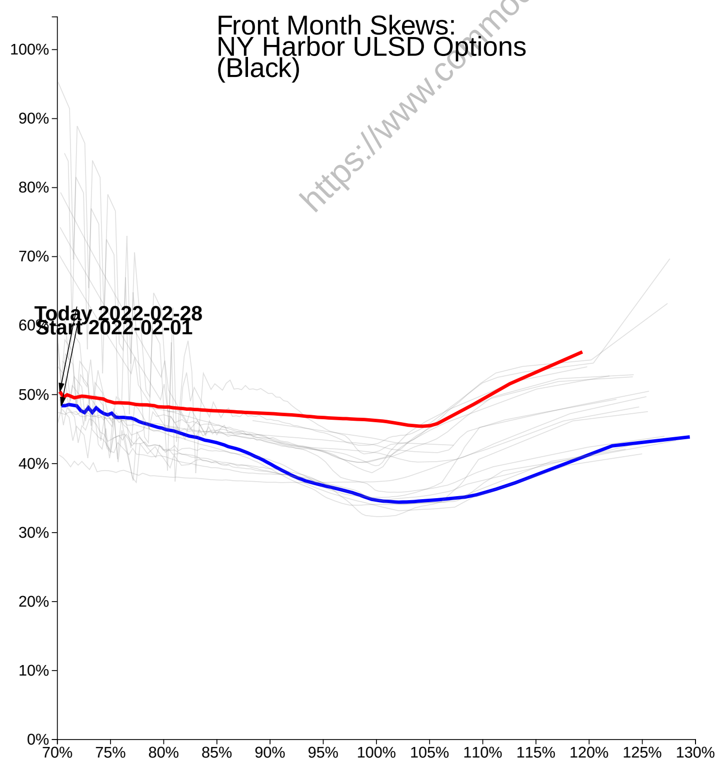

Price ($)
20220328
20221026
20231026
Start 2022-02-01
Today 2022-02-28

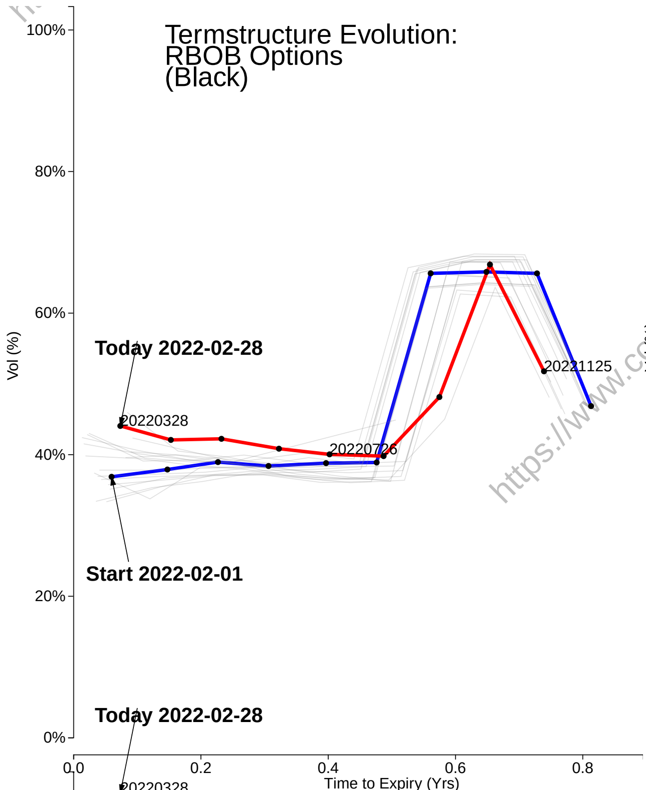

Front Month Skews:
Brent Euro Style Options
(Black)
Today 2022-02-28
Start 2022-02-03

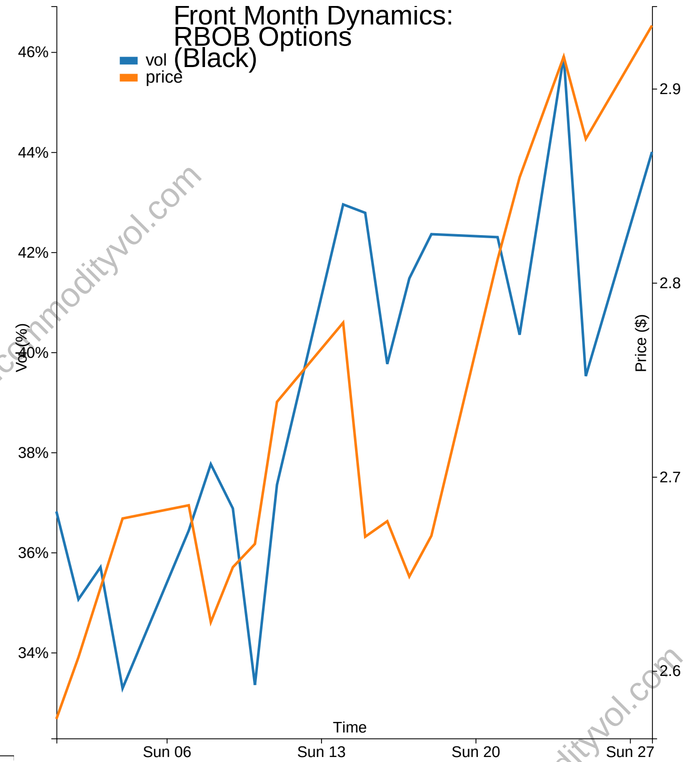

Termstructure Evolution:
NY Harbor ULSD Options
(Black)
Today 2022-02-28
Start 2022-02-01
20220328
20220826
20230126
Vol (%)
Time to Expiry (Yrs)

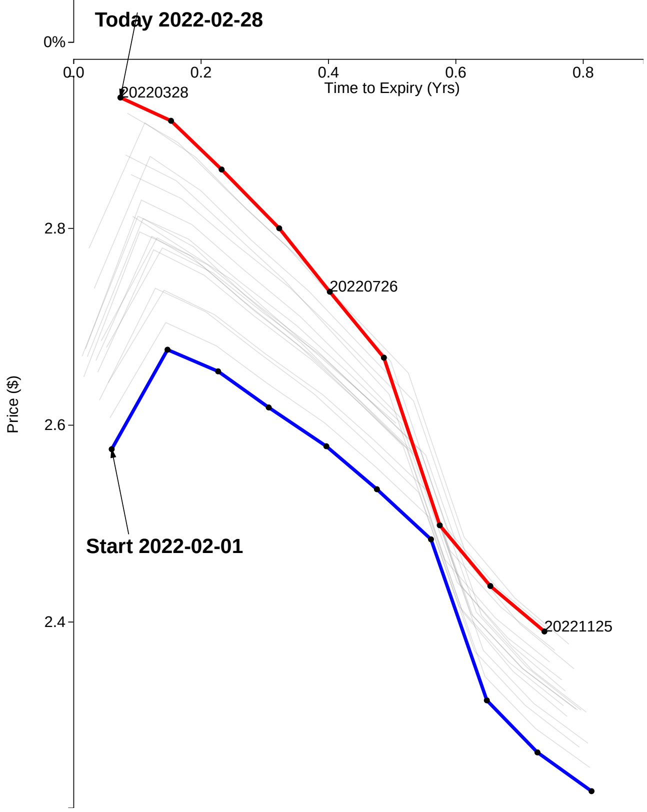

Front Month Dynamics:
NY Harbor ULSD Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

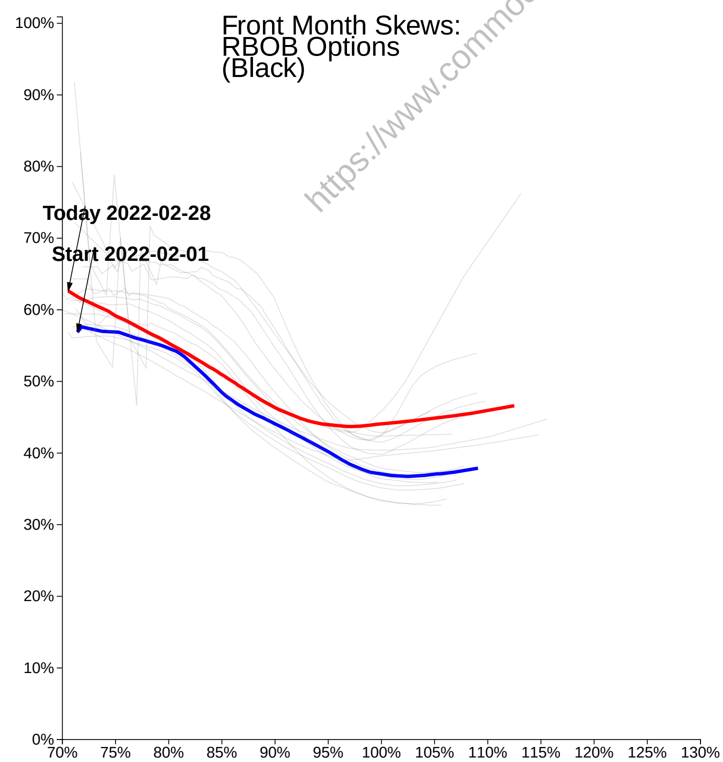

Today 2022-02-28
Start 2022-02-01
20220328
20220826
20230126
Price ($)

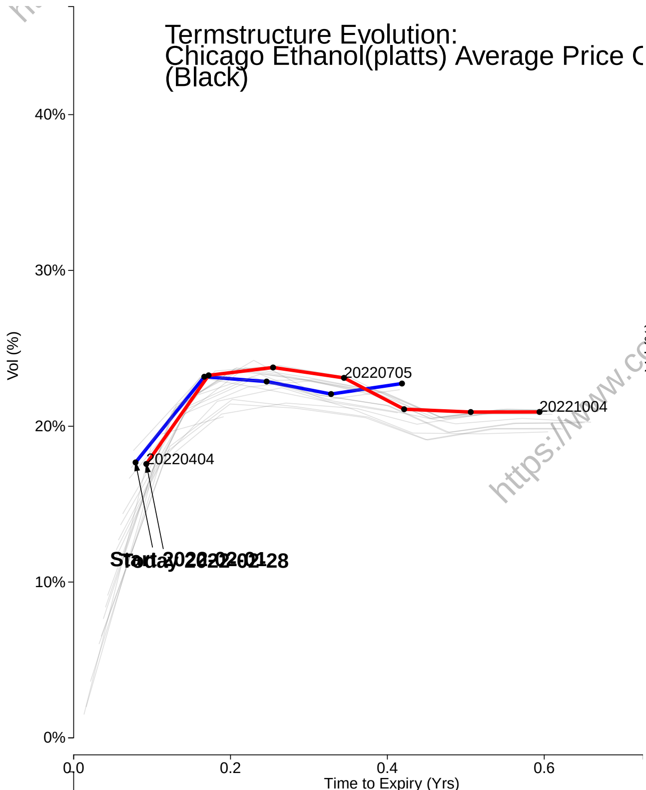

Front Month Skews:
NY Harbor ULSD Options
(Black)
Today 2022-02-28
Start 2022-02-01


Termstructure Evolution:
RBOB Options
(Black)
Vol (%)
Today 2022-02-28
Start 2022-02-01
20220328
20220726
20221125
Time to Expiry (Yrs)

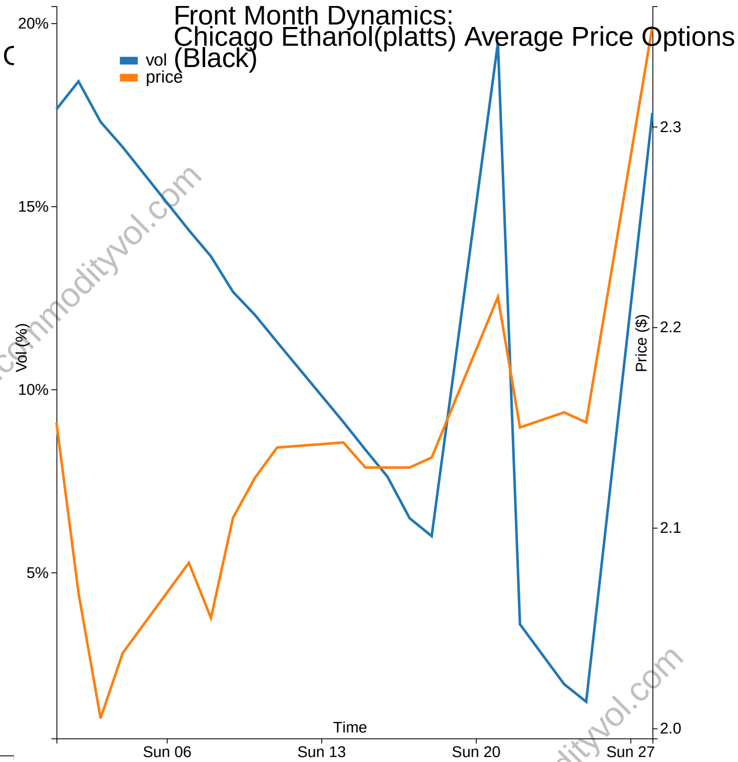

Front Month Dynamics:
RBOB Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27


Today 2022-02-28
Start 2022-02-01
20220328
20220726
20221125
Price ($)

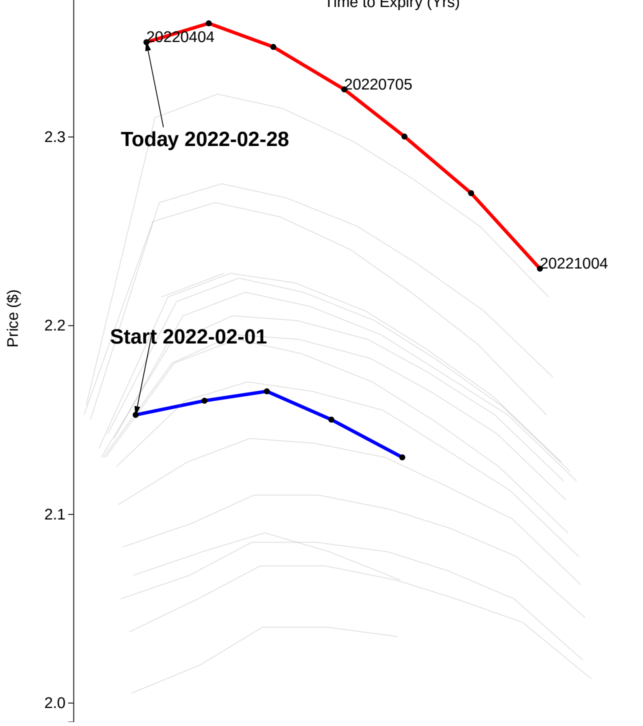

Front Month Skews:
RBOB Options
(Black)
Today 2022-02-28
Start 2022-02-01



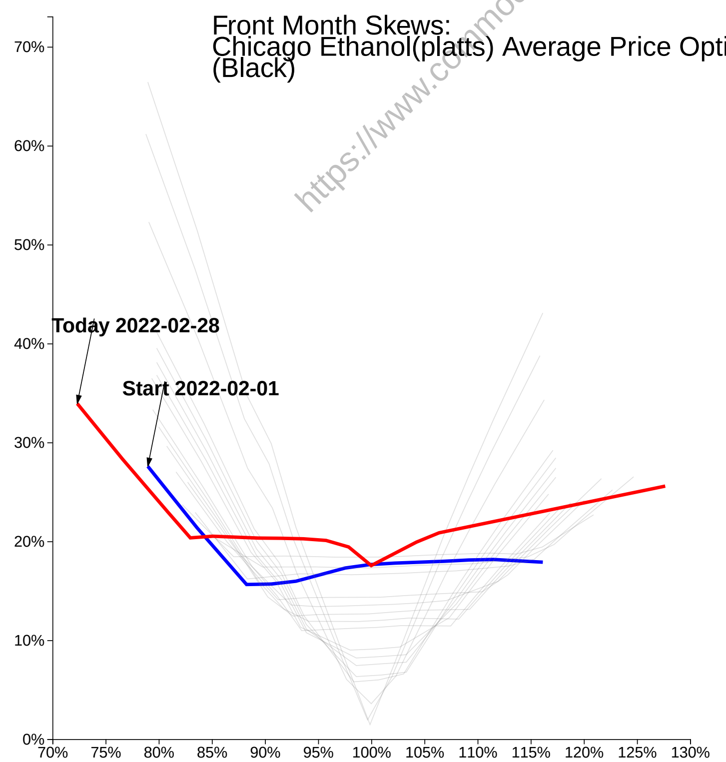
Termstructure Evolution:
Chicago Ethanol(platts) Average Price C
(Black)
Vol (%)
40%
30%
20%
10%
0%
20220404
20220705
20221004
Start 2022-02-01
Today 2022-02-28
0.0
0.2
0.4
0.6
Time to Expiry (Yrs)



Front Month Dynamics:
Chicago Ethanol(platts) Average Price Options
(Black)
vol
price
Vol (%)
Price ($)
20%
15%
10%
5%
2.3
2.2
2.1
2.0
Time
Sun 06
Sun 13
Sun 20
Sun 27

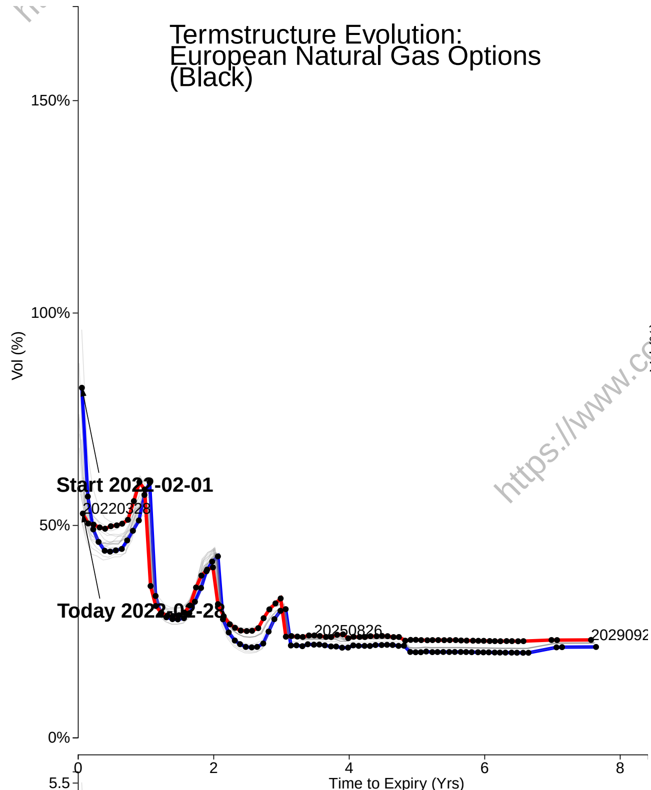


Price ($)
2.3
2.2
2.1
2.0
20220404
20220705
20221004
Today 2022-02-28
Start 2022-02-01

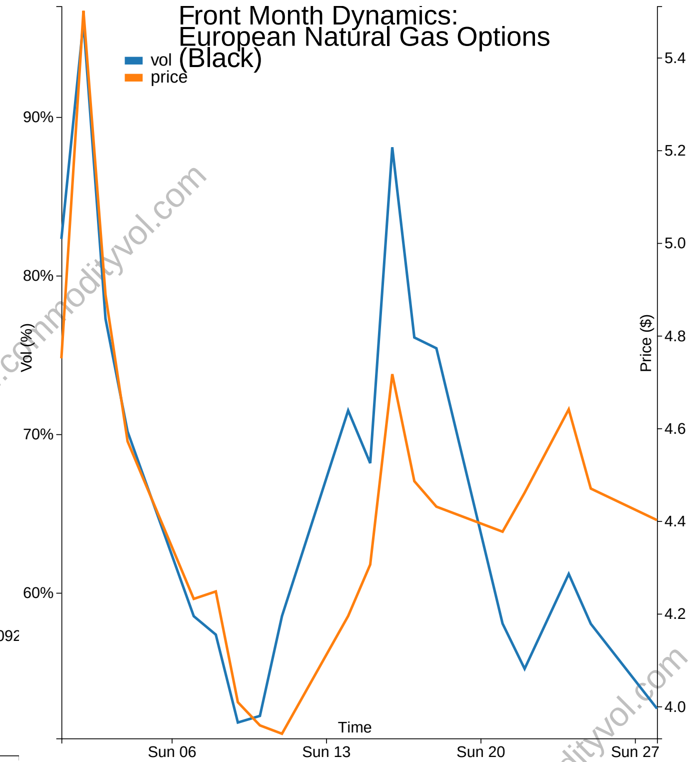


Front Month Skews:
Chicago Ethanol(platts) Average Price Optio
(Black)
70%
60%
50%
40%
30%
20%
10%
0%
Today 2022-02-28
Start 2022-02-01
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%

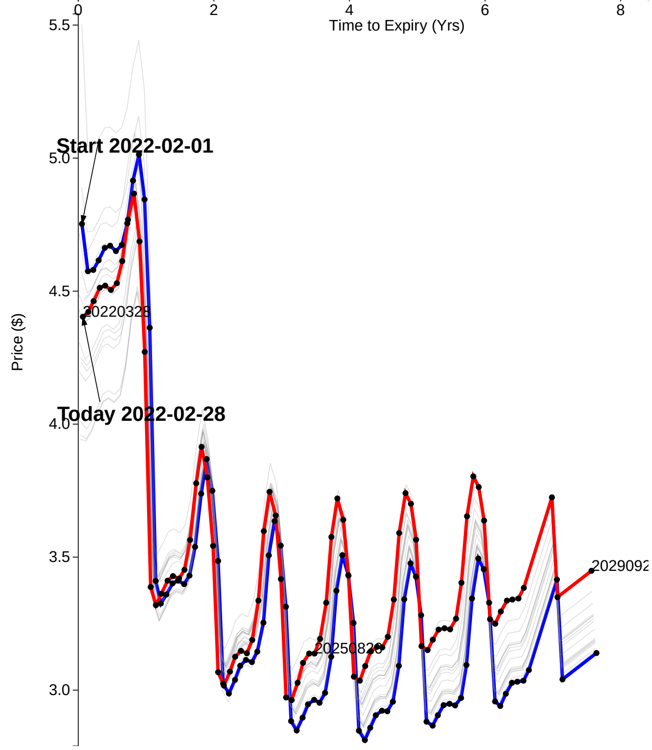
Natural Gas



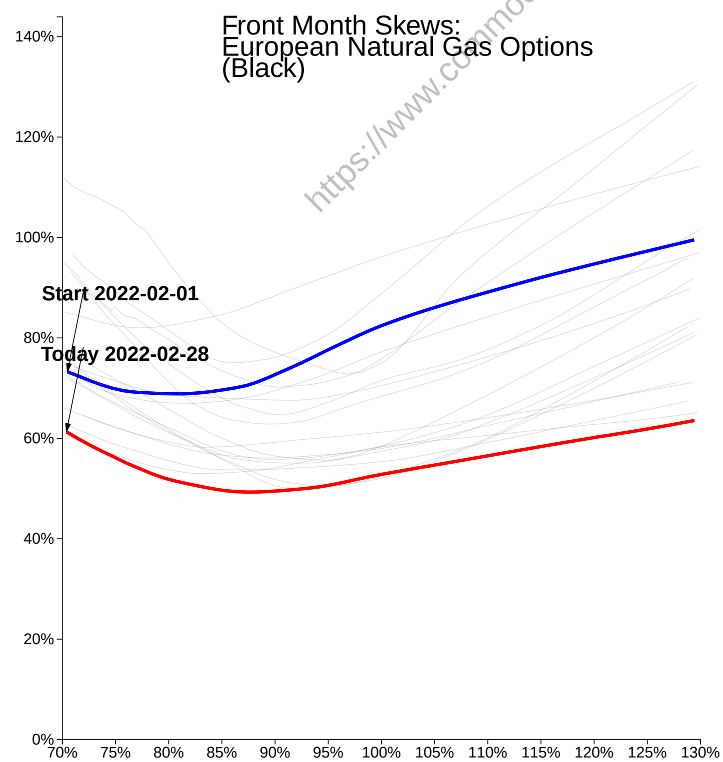
Termstructure Evolution:
European Natural Gas Options
(Black)
Vol (%)
Time to Expiry (Yrs)
Start 2022-02-01
Today 2022-02-28
20220328
20250826
2029092



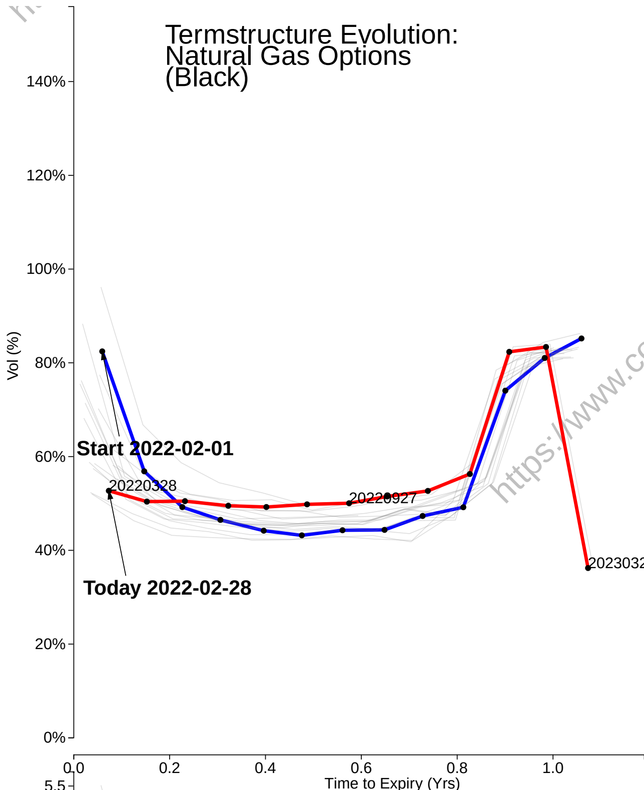
Front Month Dynamics:
European Natural Gas Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

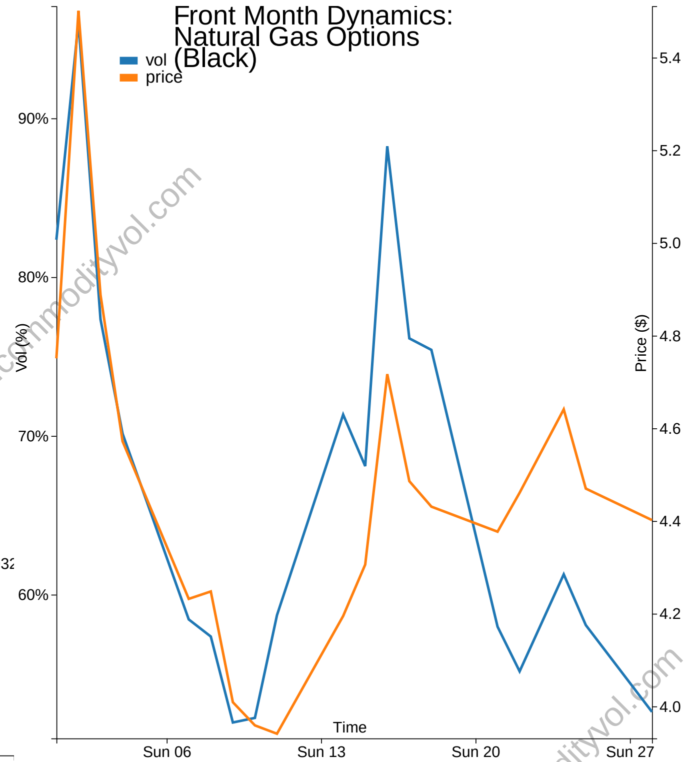


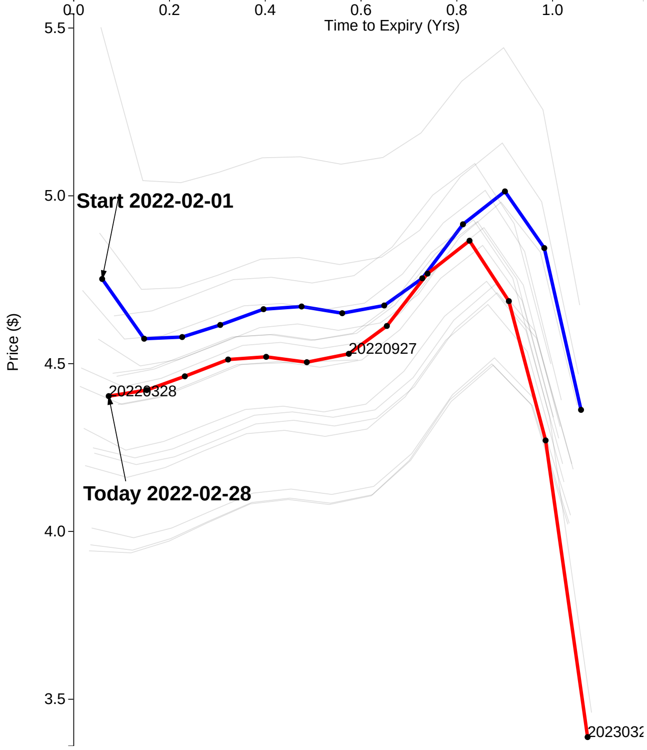
Price ($)
Start 2022-02-01
Today 2022-02-28
20220328
20250826
2029092

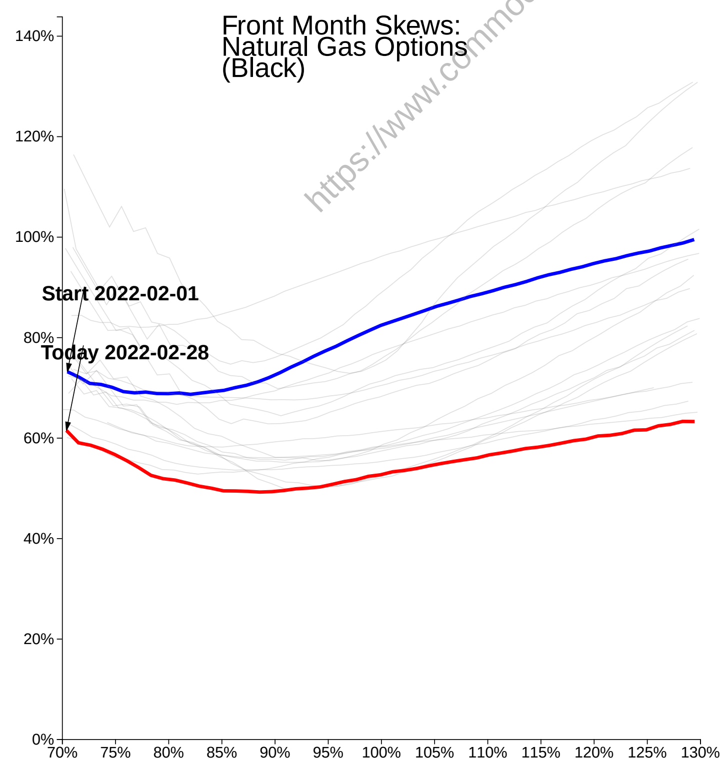


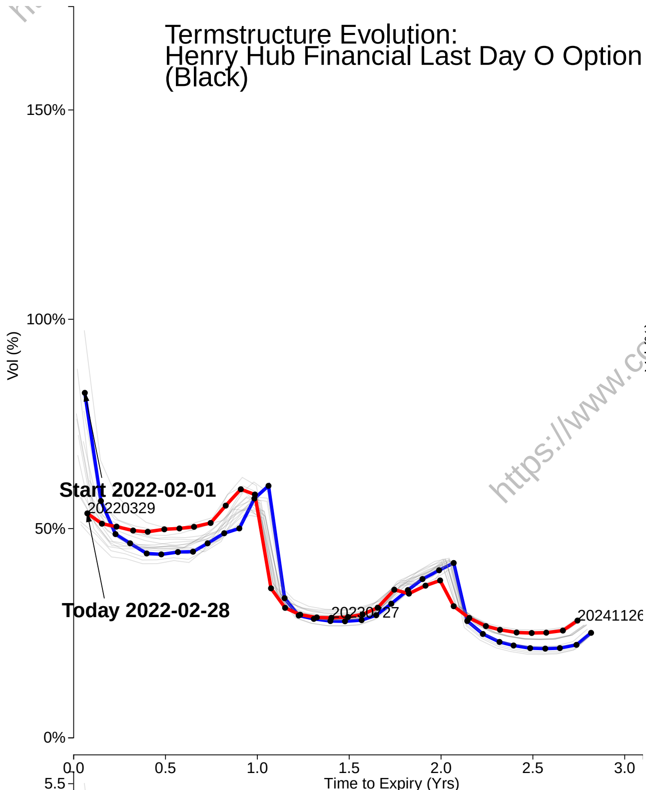
Front Month Skews:
European Natural Gas Options
(Black)
Start 2022-02-01
Today 2022-02-28


Termstructure Evolution:
Natural Gas Options
(Black)
Vol (%)
Time to Expiry (Yrs)
Start 2022-02-01
Today 2022-02-28
20220328
20220927
0%
20%
40%
60%
80%
100%
120%
140%
0.0
0.2
0.4
0.6
0.8
1.0

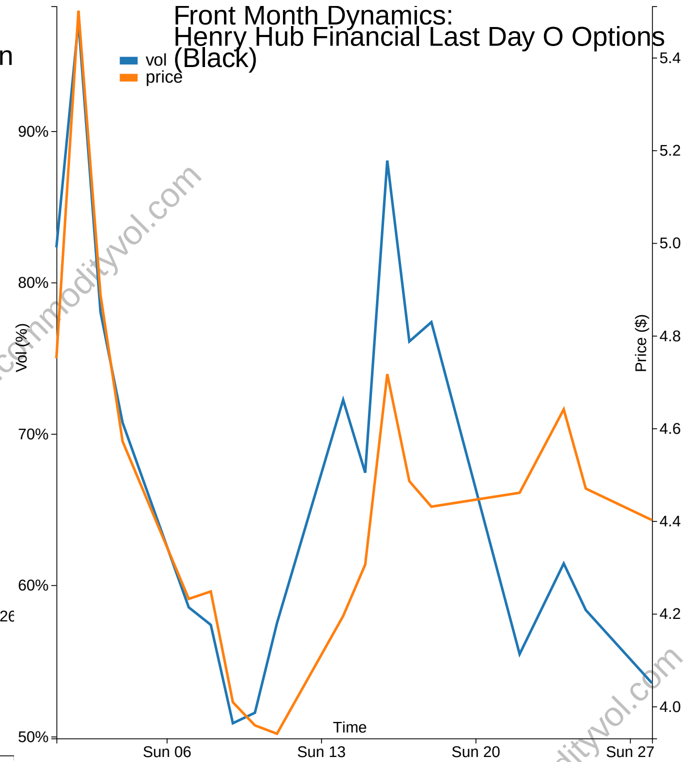

Front Month Dynamics:
Natural Gas Options
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27
60%
70%
80%
90%
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4


Price ($)
Start 2022-02-01
Today 2022-02-28
20220328
20220927
3.5
4.0
4.5
5.0
5.5

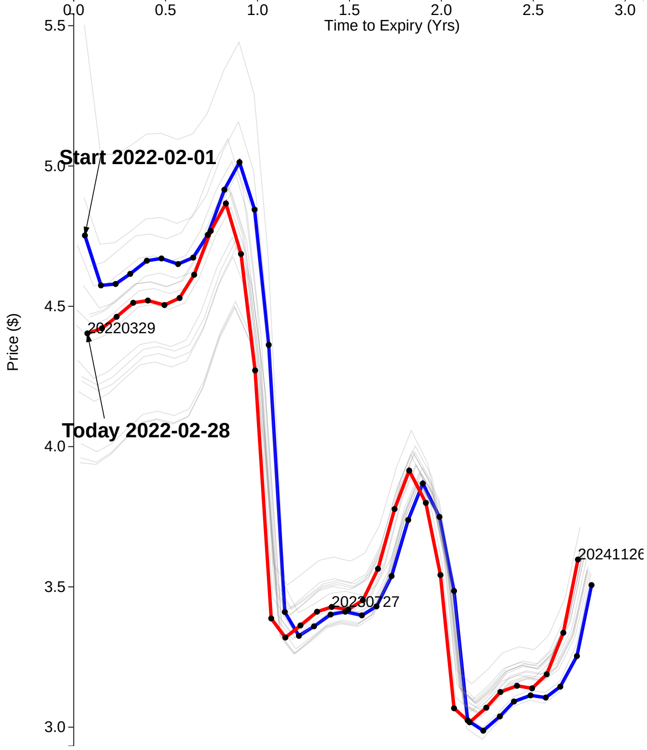

Front Month Skews:
Natural Gas Options
(Black)
Start 2022-02-01
Today 2022-02-28
0%
20%
40%
60%
80%
100%
120%
140%
70%
75%
80%
85%
90%
95%
100%
105%
110%
115%
120%
125%
130%



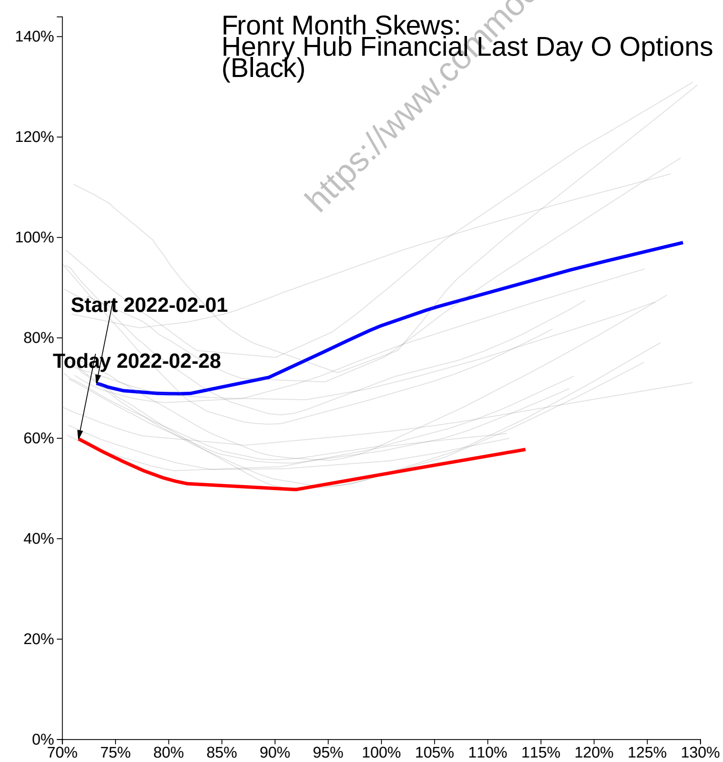
Termstructure Evolution:
Henry Hub Financial Last Day O Option (Black)
Vol (%)
Time to Expiry (Yrs)
Start 2022-02-01
Today 2022-02-28
20220329
20230727
20241126



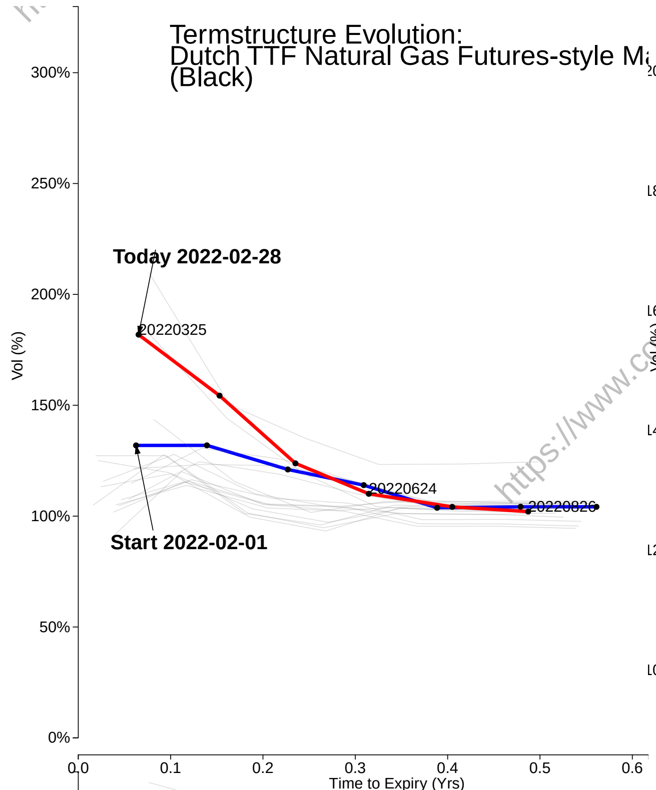
Front Month Dynamics:
Henry Hub Financial Last Day O Options (Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27

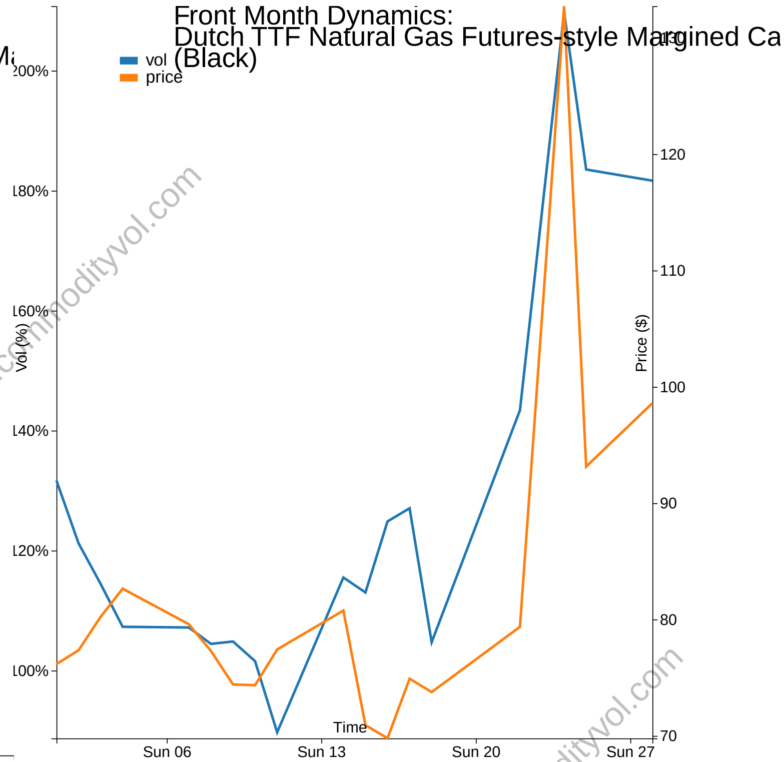


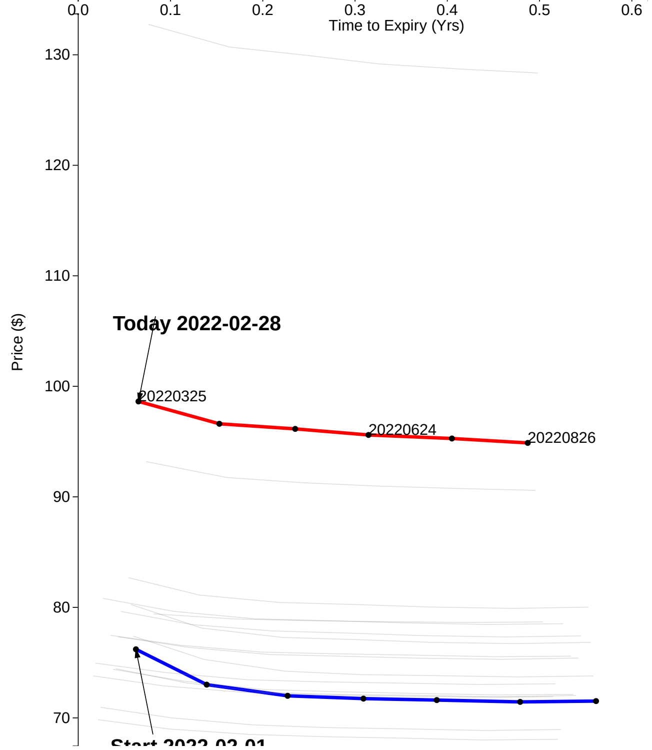
Price ($)
Start 2022-02-01
Today 2022-02-28
20220329
20230727
20241126

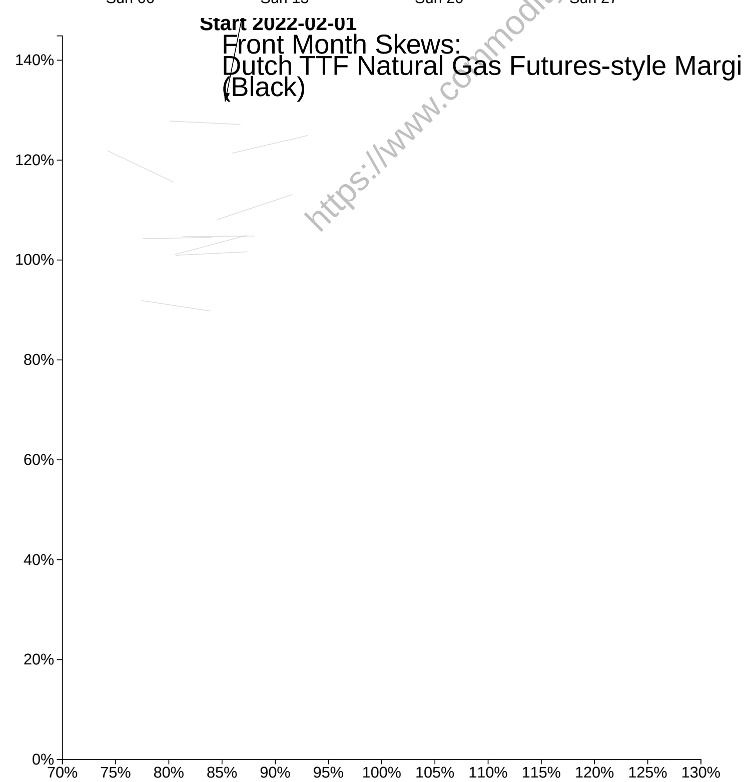


Front Month Skews:
Henry Hub Financial Last Day O Options (Black)
Start 2022-02-01
Today 2022-02-28


Termstructure Evolution:
Dutch TTF Natural Gas Futures-style Ma
(Black)
Today 2022-02-28
Start 2022-02-01
20220325
20220624
20220826
Vol (%)
Time to Expiry (Yrs)
https://www.commodityvol.com


Front Month Dynamics:
Dutch TTF Natural Gas Futures-style Margined Ca
(Black)
vol
price
Vol (%)
Price ($)
Time
Sun 06
Sun 13
Sun 20
Sun 27


Today 2022-02-28
20220325
20220624
20220826
Price ($)


Start 2022-02-01
Front Month Skews:
Dutch TTF Natural Gas Futures-style Margi
(Black)
https://www.commodityvol.com

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