

JSE
INTEREST RATE DERIVATIVES
MONTHLY VIEW

(including November close out period)

November 2020

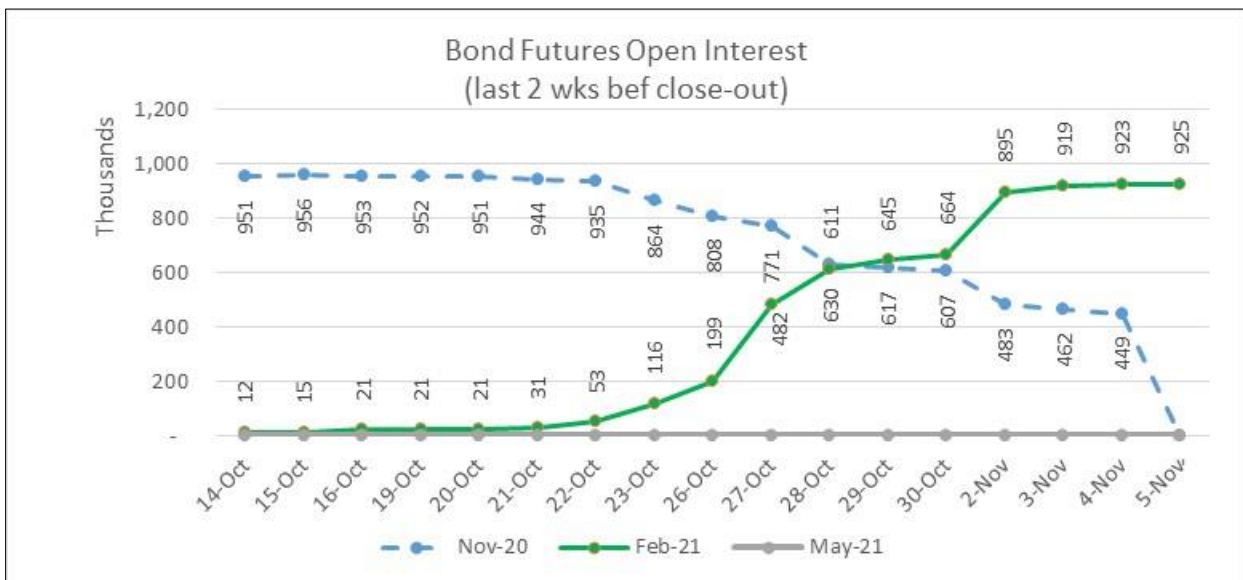
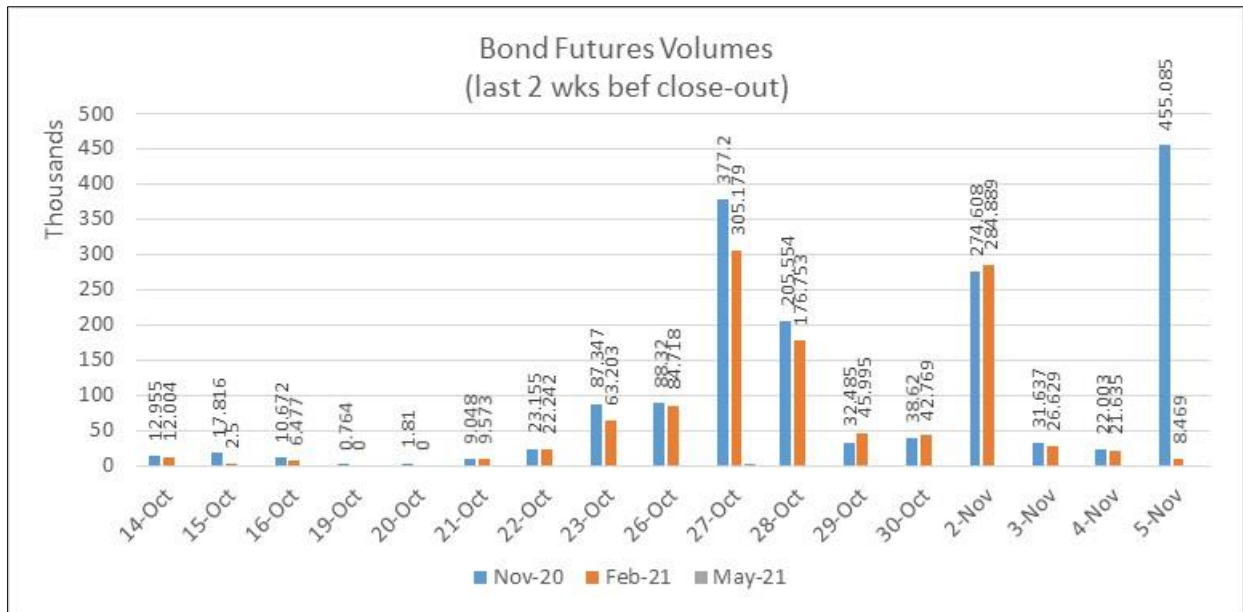
Compiled by the IRC team

Contents

Contents	2
HIGHLIGHTS OF NOVEMBER CLOSE-OUT	3
Spire Awards Update	4
HIGHLIGHTS OF THE MONTH.....	5
INTEREST RATE DERIVATIVE CONTRACTS.....	5
IRD CONTRACTS TRADED	5
IRD VALUE TRADED	5
IRD OPEN INTEREST	5
IRD PRODUCT SPLIT IN CONTRACTS AND VALUE TRADED	6
TWO_MONTH CLOSE OUT PERIOD VOLUME (ALL IRD CONTRACTS).....	6
BOND FUTURES.....	7
BOND FUTURES: CONTRACTS TRADED	7
BOND FUTURES: VALUE TRADED	8
BOND FUTURES: OPEN INTEREST	9
BOND FUTURES: OPEN INTEREST PER INSTRUMENT.....	10
SINGLE BOND FUTURE CONTRACTS.....	11
OPTIONS ON BOND FUTURES.....	12
OPTIONS ON BOND FUTURES: CONTRACTS TRADED YTD.....	12
OPTIONS ON BOND FUTURES: CONTRACTS TRADED AND OPEN INTEREST.....	13
BOND INDEX FUTURES.....	14
BOND INDEX FUTURES: VALUE TRADED YTD.....	14

HIGHLIGHTS OF NOVEMBER CLOSE-OUT

The end of October signals the arrival of the November 2020 close-out in the first week of November. The **contracts traded and open interest time series** is shown below:



Spire Awards Update

Due to the impact of covid-19 and wanting to ensure the health and safety of our clients, the JSE has taken the decision to postpone the 2020 Spire Awards which the JSE usually hosts in October/November each year. The event will take place at the end of the first quarter of 2021. The JSE will communicate the new date to market participants when finalised.

To view the Market Notice please click on the following link: [Market Notice 584/2020 Spire Awards 2020 Update](#)

HIGHLIGHTS OF THE MONTH

- The total **IRD contracts traded** ytd in 2020 is 13.1m, up 16% in comparison to same period in 2019. This equates to about R1,259 billion value traded ytd (2019: R1,154bln)
- The **Bond futures** up 18% while **options** down 21% in volumes over same period last year
- The **Govi futures** contracts up 38% over the same period last year (~R67bln value traded)
- The **IRD open interest**, indicative of the outstanding risk being traded/hedged, is flat on same period last year as the end of year approaches
- With the recent re-launch of **Jibar futures**, the market has traded just 110k contracts with an open interest of 60k, equivalent to a nominal value of R6bln

INTEREST RATE DERIVATIVE CONTRACTS

IRD CONTRACTS TRADED

The number of IRD contracts traded YTD is 16% up from 2019 equivalent period, attributable to double digit growth in the Bond Futures, Govi futures and more recently Jibar futures.

Listed IRD CONTRACTS TRADED							
YTD - Contracts	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2019	10,380,590	927,302	6,998	16,386	-	-	11,331,276
2020	12,285,727	727,009	9,670	15,180	110,085	-	13,147,671
Growth	18.4%	-21.6%	38.2%	-7.4%	-	0.0%	16.0%

IRD VALUE TRADED

The value traded YTD is 9% higher than 2019 equivalent period a total of R1,259 billion notional.

IRD VALUE TRADED YTD (Rm)							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2019	R 1,028,533	R 1,226	R 47,400	R 76,858	R 0	R 0	R 1,154,016
2020	R 1,132,730	R 1,427	R 67,371	R 55,083	R 2,654	R 0	R 1,259,265
Growth	10.1%	16.4%	42.1%	-28.3%	-	0.0%	9.1%

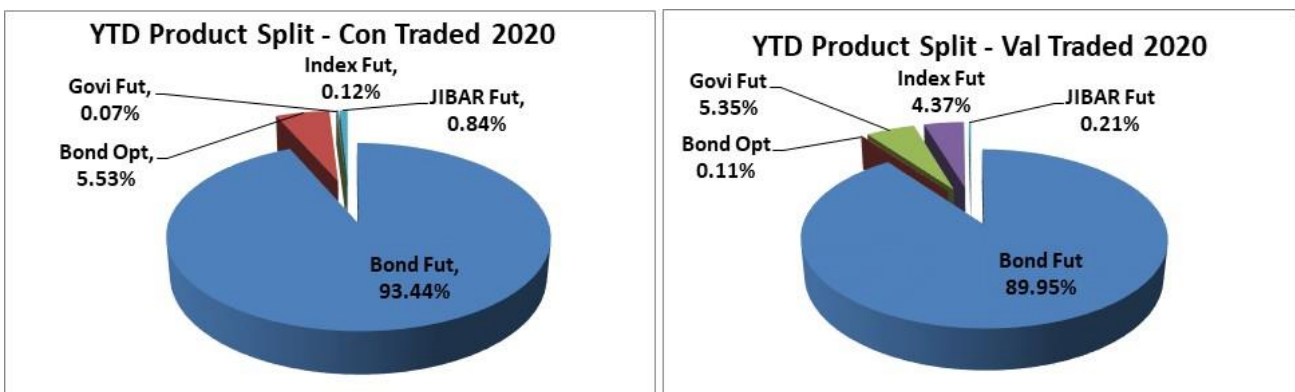
IRD OPEN INTEREST

The 2020 Open Interest is 5% down on the equivalent period last year.

IRD OPEN INTEREST YTD							
Period	Bond Fut	Bond Opt	Govi Fut	Index Fut	JIBAR Fut	SWAP Fut	Total
2019	927,675	240,676	1,243	1,472	-	51	1,171,117
2020	931,839	122,370	968	1,341	60,010	51	1,116,579
Growth	0.4%	-49.2%	-22.1%	-8.9%	-	0.0%	-4.7%

IRD PRODUCT SPLIT IN CONTRACTS AND VALUE TRADED

The **GOVI and Index Futures** account for 0.2% of all IRD contracts traded, but, due to the large contract size, 10% of total value traded YTD.



TWO_MONTH CLOSE OUT PERIOD VOLUME (ALL IRD CONTRACTS)

Participants usually start to roll positions in the month preceding close-out and, as such, in order to get a complete picture, **seasonal volumes** can be represented by adding together the **volumes for the active close-out month and the preceding month as a 2-month close-out period**.

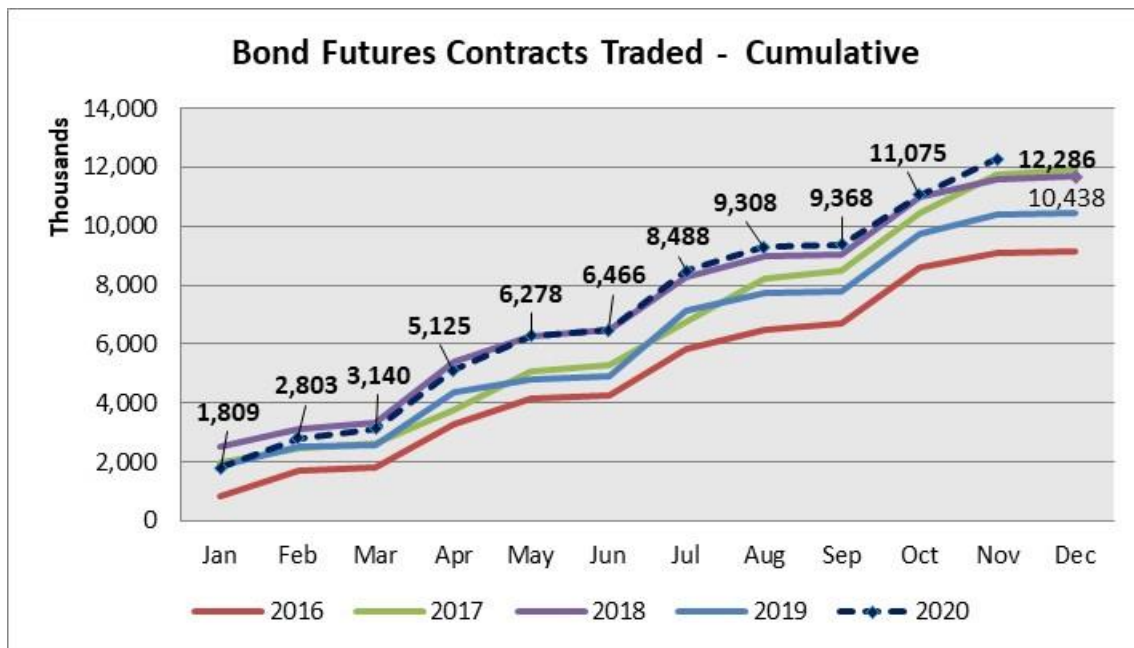
The **November 2020 (2-mth) close-out period**, saw a total of 3.08 million contracts traded, 11% higher than those traded during the same close-out period in 2019.

ALL IRD CONTRACTS (in 2-mth periods)							
Close-Out (2-mth)	2016	2017	2018	2019	2020	% Chg 2019/18	% Chg 2020/19
Close-Out 1 (Feb)	1,732,666	2,454,909	3,291,708	2,609,366	3,096,822	-20.7%	18.7%
Close-Out 2 (May)	2,400,933	2,490,915	2,973,062	2,518,022	3,218,688	-15.3%	27.8%
Close-Out 3 (Aug)	2,313,032	3,050,960	2,531,742	3,008,502	3,039,576	18.8%	1.0%
Close-Out 4 (Nov)	2,399,150	3,320,386	2,749,042	2,786,833	3,081,681	1.4%	10.6%

BOND FUTURES

BOND FUTURES: CONTRACTS TRADED

The graph below depicts the **cumulative contracts traded in Bond Futures**. The traded contracts year-to-date is 18% higher than equivalent period previous year and is the highest cumulative volume for past 5 years.

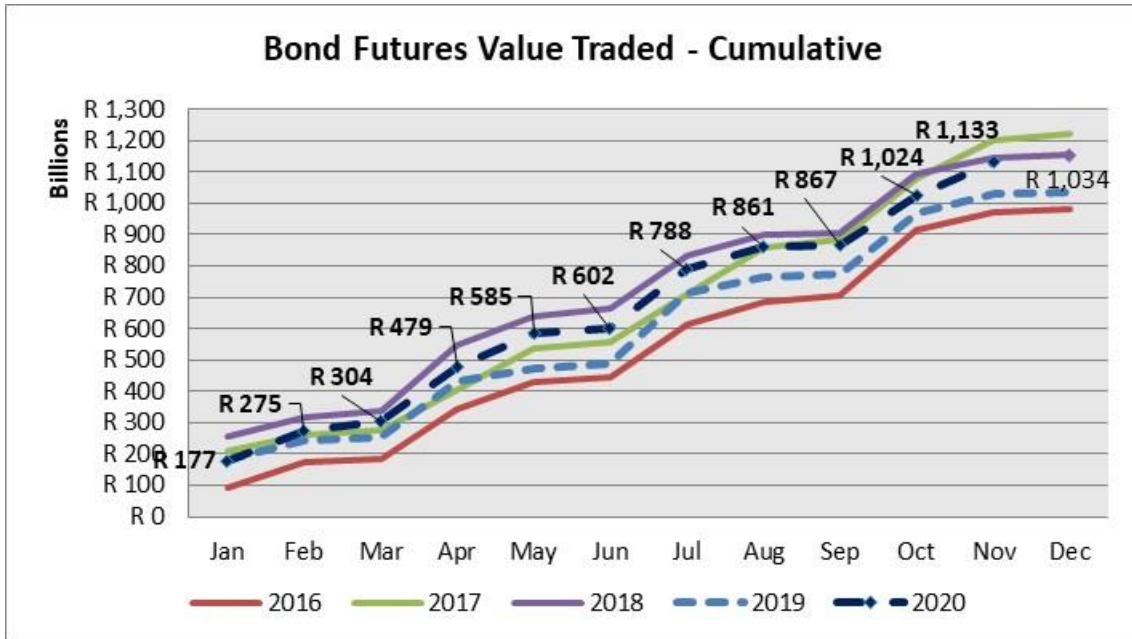


The **historical non-cumulative** breakdown in Bond Futures contracts traded per month is:

Bond Futures Contracts Traded							
Date	2016	2017	2018	2019	2020	Chg 19/18	Chg 20/19
Jan	826,485	1,963,456	2,512,043	1,872,040	1,808,945	-25.5%	-3.4%
Feb	883,377	493,725	622,760	654,730	994,022	5.1%	51.8%
Mar	79,520	148,066	184,080	71,194	337,360	-61.3%	373.9%
Apr	1,490,182	1,168,792	2,071,717	1,778,197	1,984,879	-14.2%	11.6%
May	854,135	1,322,123	868,973	434,577	1,152,932	-50.0%	165.3%
Jun	134,452	177,529	241,609	121,845	187,670	-49.6%	54.0%
Jul	1,542,365	1,475,383	1,770,507	2,232,039	2,022,009	26.1%	-9.4%
Aug	691,788	1,497,690	706,275	550,331	820,119	-22.1%	49.0%
Sep	207,021	235,816	53,904	85,331	59,877	58.3%	-29.8%
Oct	1,903,245	1,947,995	1,987,598	1,970,014	1,707,398	-0.9%	-13.3%
Nov	477,584	1,304,500	599,247	610,292	1,210,516	1.8%	98.4%
Dec	77,224	180,041	69,157	57,887		-16.3%	
TOTAL	9,167,378	11,915,116	11,687,870	10,438,477	12,285,727	-10.7%	18.4%

BOND FUTURES: VALUE TRADED

The graph below highlights the historical **cumulative value traded** over the past few years. There has been a **10% increase in value traded** year-to-date compared to value traded in 2019.

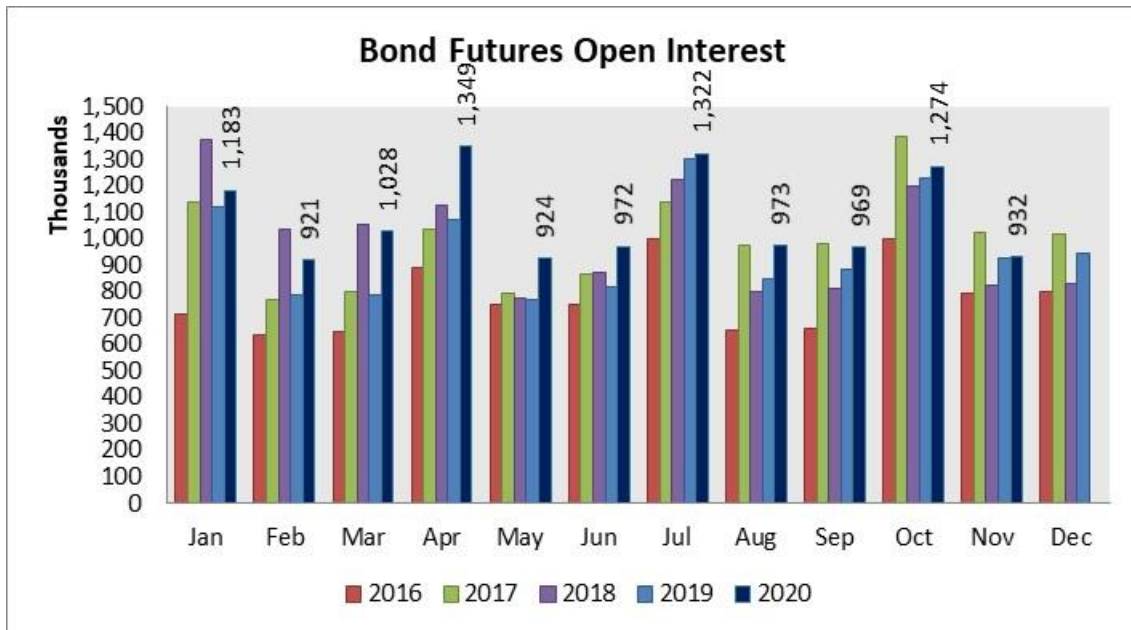


The historical **non-cumulative** breakdown in terms of Bond Futures value traded per month:

Bond Futures Value Traded Rm							
Date	2016	2017	2018	2019	2020	Chg 19/18	Chg 20/19
Jan	R 93,017	R 207,419	R 253,621	R 180,384	R 176,702	-28.9%	-2.0%
Feb	R 83,446	R 54,107	R 63,521	R 65,075	R 97,898	2.4%	50.4%
Mar	R 8,122	R 15,689	R 18,820	R 7,378	R 29,570	-60.8%	300.8%
Apr	R 159,522	R 128,361	R 212,944	R 177,545	R 174,397	-16.6%	-1.8%
May	R 87,612	R 131,736	R 91,403	R 44,429	R 106,329	-51.4%	139.3%
Jun	R 13,129	R 19,049	R 22,502	R 11,983	R 17,525	-46.7%	46.2%
Jul	R 166,159	R 151,742	R 170,320	R 225,830	R 185,667	32.6%	-17.8%
Aug	R 75,809	R 152,914	R 68,472	R 53,410	R 73,391	-22.0%	37.4%
Sep	R 20,266	R 24,072	R 5,123	R 8,239	R 5,882	60.8%	-28.6%
Oct	R 210,332	R 191,314	R 185,855	R 194,759	R 156,245	4.8%	-19.8%
Nov	R 55,648	R 126,095	R 54,306	R 59,502	R 109,123	9.6%	83.4%
Dec	R 7,458	R 17,391	R 6,458	R 5,516	R 0	-14.6%	
TOTAL	R 980,519	R 1,219,888	R 1,153,345	R 1,034,049	R 1,132,730	-10.3%	10.1%

BOND FUTURES: OPEN INTEREST

Bond Futures Open interest was 932k contracts as at month end which is 0.4% more than that at the end of the equivalent month in previous year. The period April-July has seen record high open interest, while August and September was just below the record high.



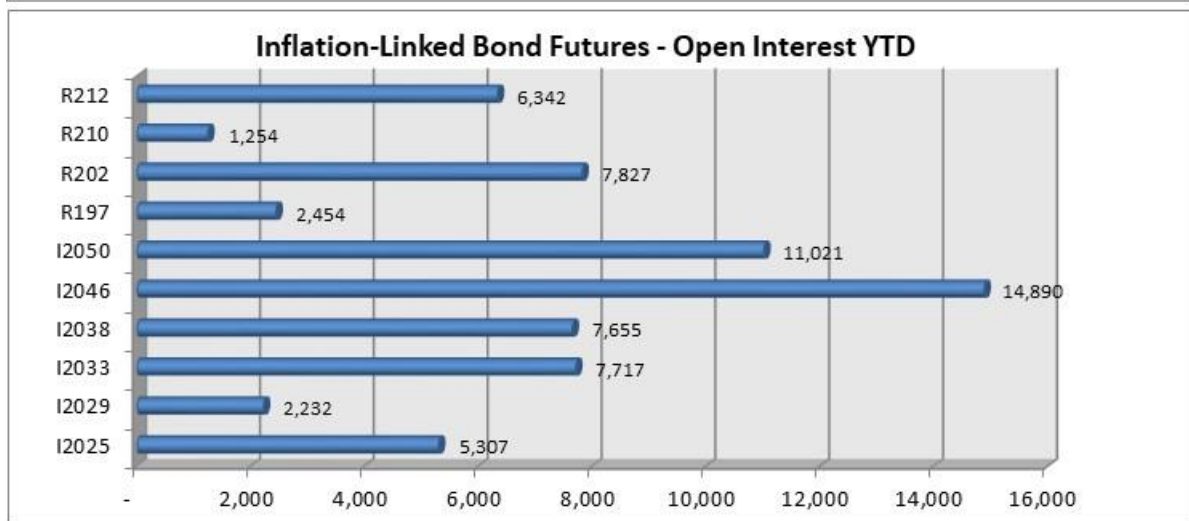
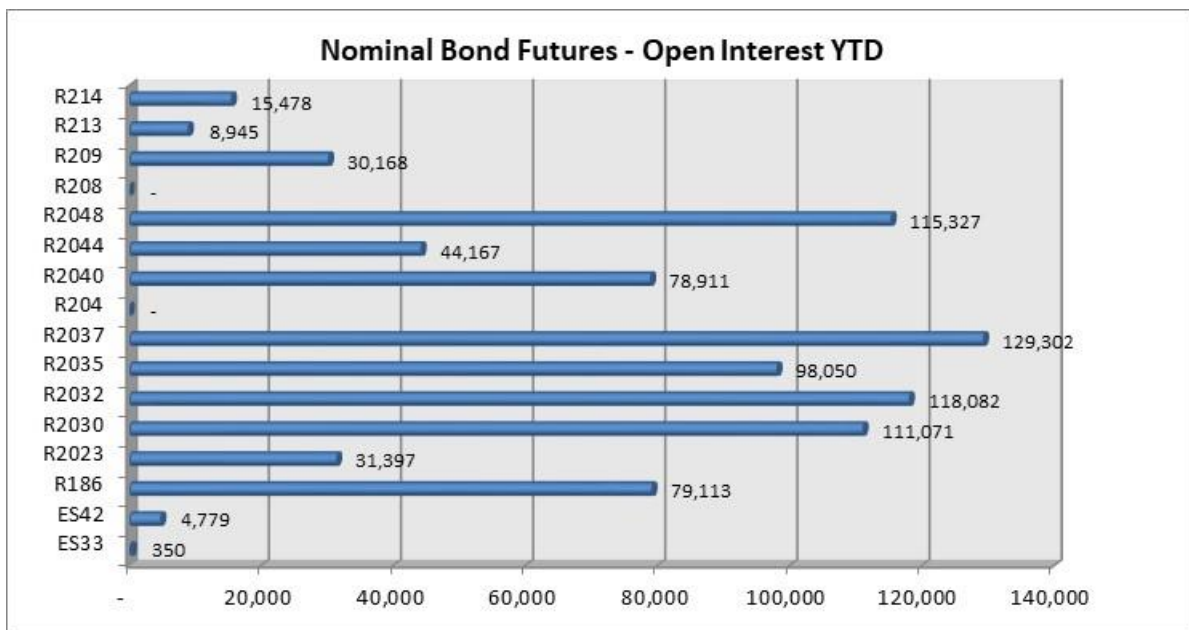
The table provides the total Bond Futures open interest contracts as at the end of each month.

Bond Futures Open Interest							
Date	2016	2017	2018	2019	2020	Chg 19/18	Chg 20/19
Jan	713,913	1,137,425	1,372,543	1,118,795	1,183,158	-18.5%	5.8%
Feb	633,062	770,321	1,037,493	784,852	921,269	-24.4%	17.4%
Mar	650,335	801,800	1,052,470	787,390	1,027,896	-25.2%	30.5%
Apr	890,406	1,037,427	1,126,181	1,073,638	1,349,483	-4.7%	25.7%
May	752,370	794,207	777,714	769,139	923,863	-1.1%	20.1%
Jun	753,049	868,162	870,652	817,539	971,675	-6.1%	18.9%
Jul	996,943	1,139,985	1,222,141	1,302,006	1,321,763	6.5%	1.5%
Aug	655,211	977,327	798,912	849,438	973,254	6.3%	14.6%
Sep	657,642	981,713	809,221	883,920	969,022	9.2%	9.6%
Oct	999,507	1,383,649	1,201,141	1,231,132	1,273,672	2.5%	3.5%
Nov	793,813	1,020,399	826,316	927,675	931,839	12.3%	0.4%
Dec	798,552	1,016,463	827,458	944,806		14.2%	

BOND FUTURES: OPEN INTEREST PER INSTRUMENT

The open interest is spread fairly evenly across many contracts with R2030, R2032, R2037 and R2048 all over 100k contracts open.

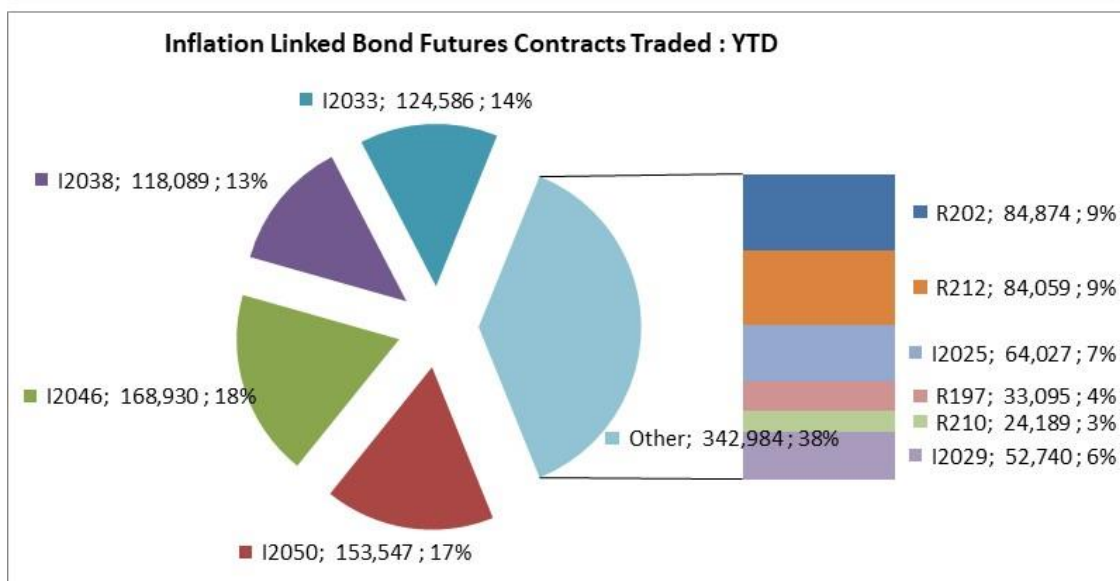
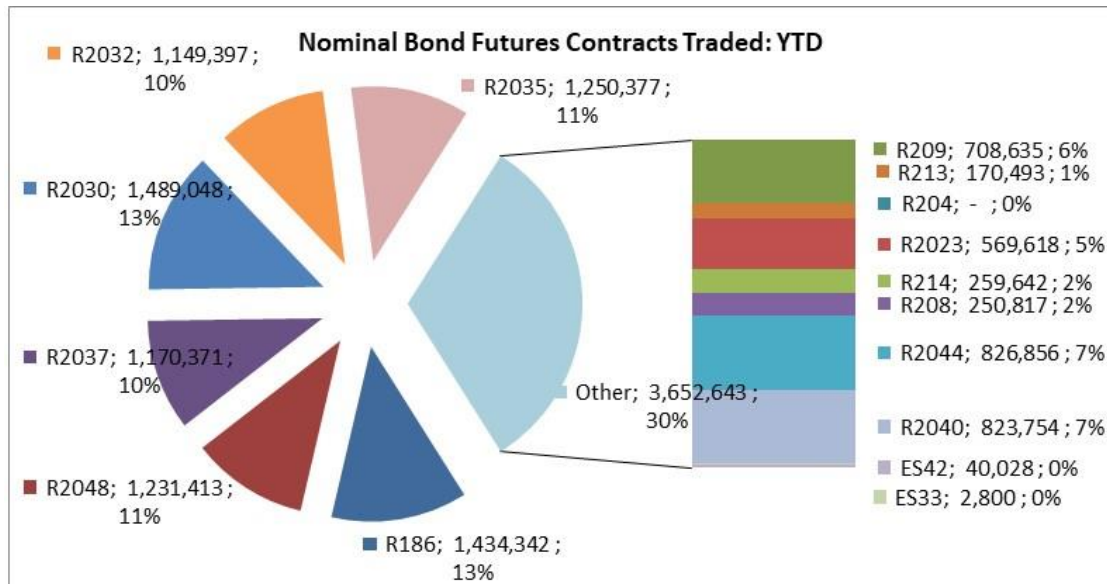
Open Interest Table: Nov2020		
Nominal Bond	Inflation-Linkers	Total
865,140	66,699	931,839
92.8%	7.2%	100.0%



SINGLE BOND FUTURE CONTRACTS

The chart ranks the contracts traded ytd for single Nominal Bond Futures and Inflation Bond Futures. The percentage split for Nominal / Inflation Bond Futures is 93%/7%

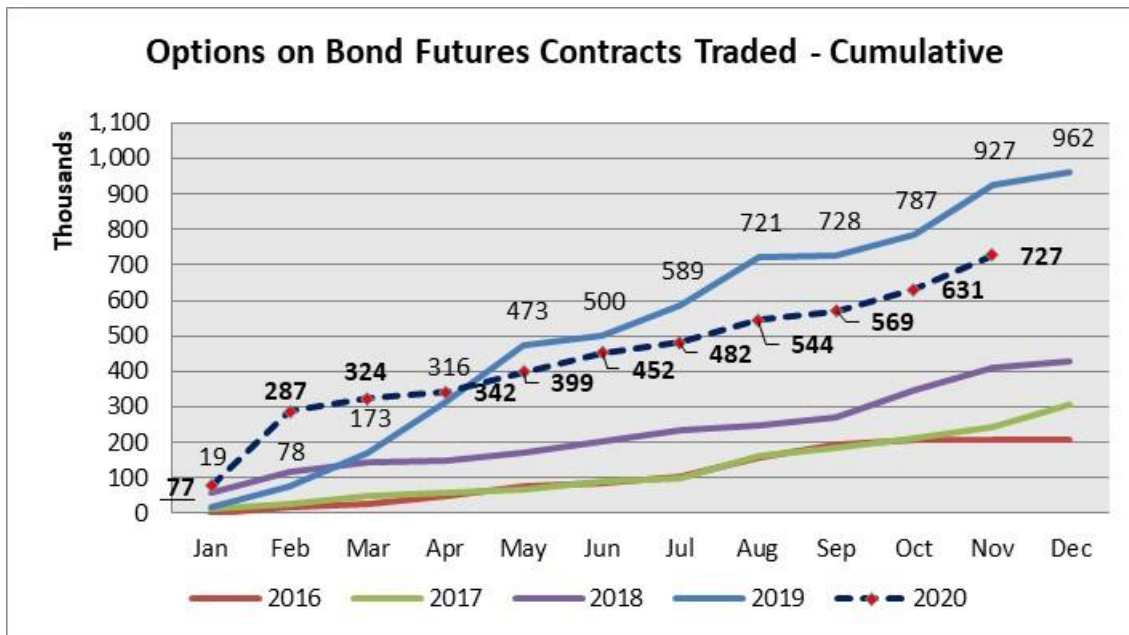
Total Contracts Traded ytd		
Nominal Bond	Inflation-Linkers	Total
11,377,591	908,136	12,285,727
92.6%	7.4%	100.0%



OPTIONS ON BOND FUTURES

OPTIONS ON BOND FUTURES: CONTRACTS TRADED YTD

The contracts traded year-to-date was down 21% on the equivalent period in previous year.



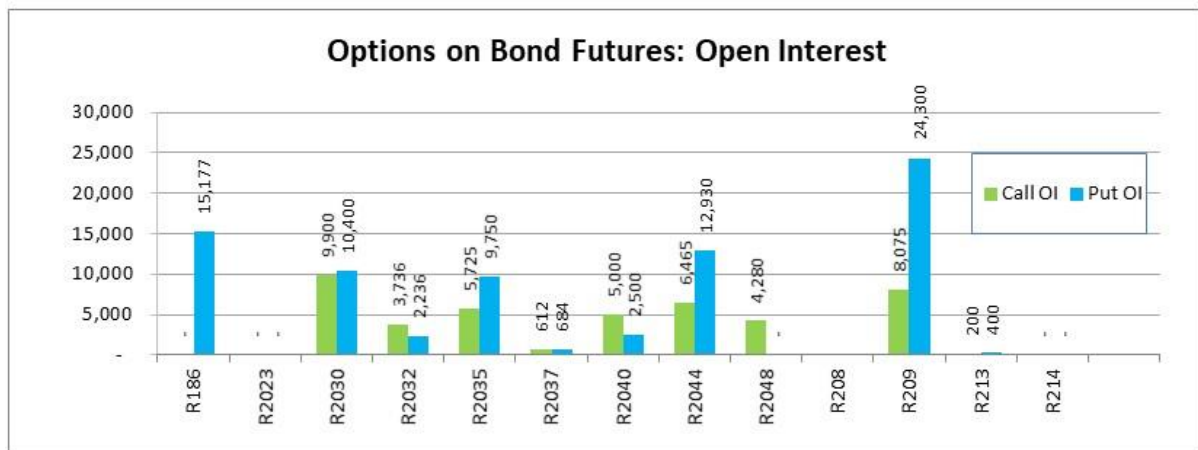
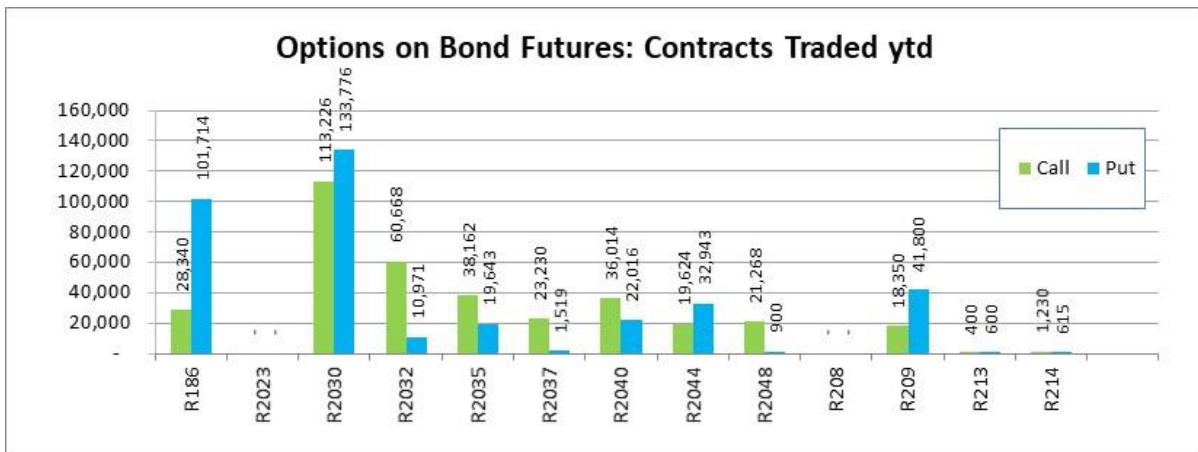
The **historical non-cumulative** breakdown in terms of Options on Bond Futures contracts:

Options on Bond Futures Contracts Traded							
Date	2016	2017	2018	2019	2020	Chg 19/18	Chg 20/19
Jan	-	14,483	60,405	19,110	77,201	-68.4%	304.0%
Feb	17,536	11,415	54,977	59,033	210,210	7.4%	256.1%
Mar	8,812	25,538	28,832	95,276	36,940	230.5%	-61.2%
Apr	22,435	5,400	5,558	143,016	17,731	2473.2%	-87.6%
May	29,048	8,862	20,150	157,005	56,719	679.2%	-63.9%
Jun	5,775	23,320	34,432	26,470	53,416	-23.1%	101.8%
Jul	18,285	8,019	28,655	88,896	30,101	210.2%	-66.1%
Aug	54,921	63,882	17,260	131,864	61,600	664.0%	-53.3%
Sep	36,208	22,555	19,612	7,489	25,183	-61.8%	236.3%
Oct	12,419	26,394	78,210	58,639	61,600	-25.0%	5.0%
Nov	50	34,036	63,736	140,504	96,308	120.4%	-31.5%
Dec	50	63,418	16,886	34,609		105.0%	
TOTAL	205,539	307,322	428,713	961,911	727,009	124.4%	-21.6%

OPTIONS ON BOND FUTURES: CONTRACTS TRADED AND OPEN INTEREST

Option contracts traded and open interest showing split between calls and puts. The dominant option contract is the R2030 in terms of trading and the R209 in terms of open interest.

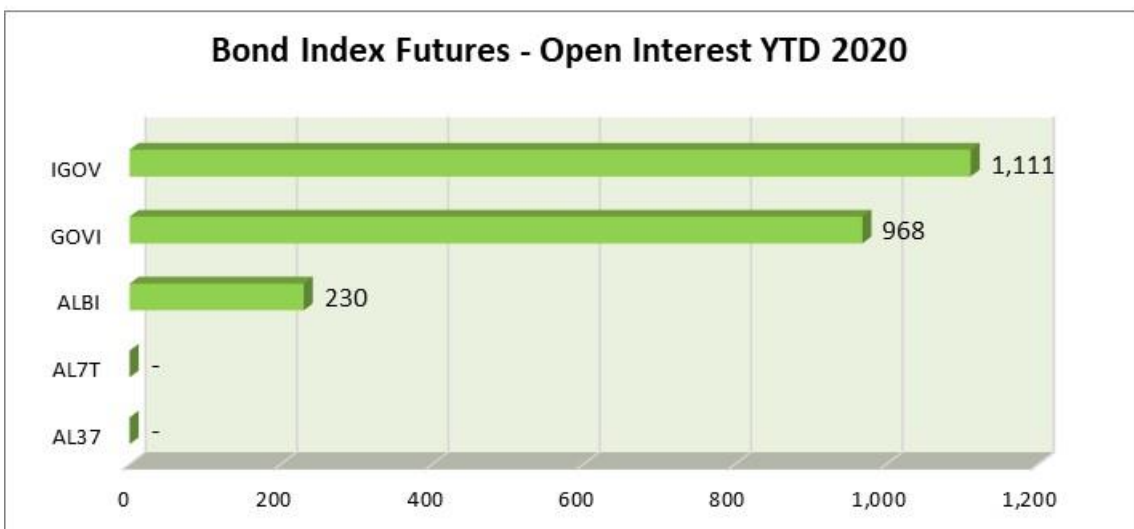
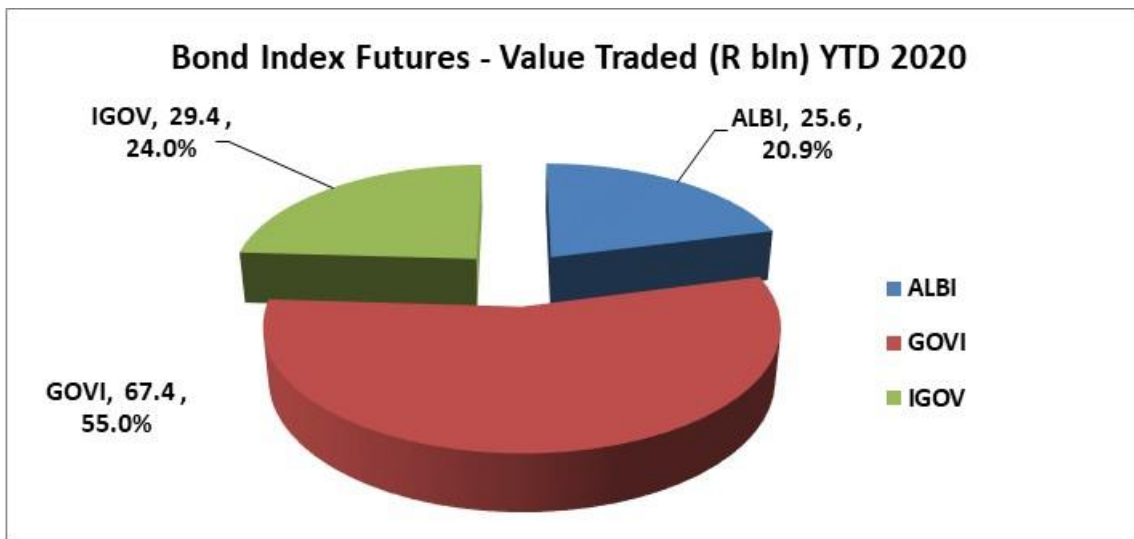
Options on Bond Futures				
	Contracts ytd		Open Interest	
Calls	360,512	49.6%	43,993	36.0%
Puts	366,497	50.4%	78,377	64.0%
Total	727,009	100.0%	122,370	100.0%



BOND INDEX FUTURES

BOND INDEX FUTURES: VALUE TRADED YTD

The GOVI and Bond Index futures value traded and open interest year-to-date are shown. The GOVI represents 55% of the bond index value traded.



For any queries, please contact irc@jse.co.za.