

Situation Room

Flows follow yields

Flows follow yields

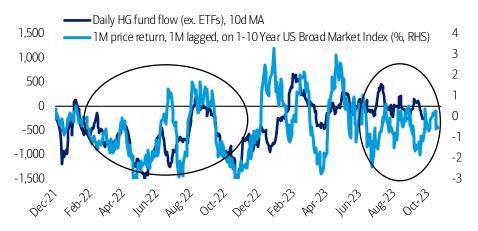
The big jump in interest rates leads to concerns about outflows from HG bond funds and ETFs. Flows tend to follow returns with about a month lag, and on Friday September 22nd HG funds and ETFs reported a large \$1.3bn outflow (Figure 4). However, this year the relationship between flows and returns has broken down, potentially due to much more attractive yields. That means the 44bps jump in 10-year Treasury yields so far in September may not trigger the typical outflows in October.

Resilient flows in 2023

Flows certainly followed returns in 2022, when a 10% total return loss on US 1-10yr US broad market index triggered a \$188bn in outflows from US HG bond funds and ETFs. So far in 2023, however, despite about flat returns, the net inflow YtD through August has reached \$152bn. That corresponds to a faster monthly pace (+\$19bn) than the pace of outflows for the full year 2022 (-\$16bn, Figure 5). Looking at scatterplots of flows and monthly bond price returns shows a strong relationship in 2022 and 1Q-2023, and almost no relationship in 2Q to 3Q-2023 (Figure 2, Figure 3).

Figure 1: Flows followed returns in 2022, but not in 2023.

The relationship between HG bond fund flows and returns as strong in 2022, and then flows and returns de-coupled in 2023.



Source: BofA Global Research, EPFR Global, ICE Data Indices, LLC

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Credit Strategy United States Cross Product

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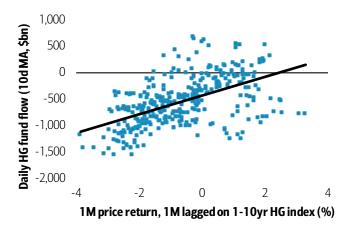
Daily foreign demand tracker

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Figure 2: Flows follow returns: Dec-2021 to Mar-2023.

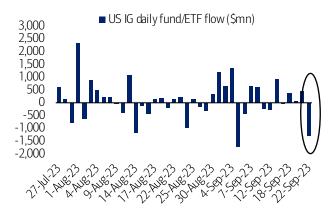
During this period there was a strong correlation between returns and flows.



Source: BofA Global Research, EPFR Global, ICE Data Indices, LLC

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Figure 4: HG bond funds and ETFs reported a -\$1.3bn outflow on Friday The Friday daily outflows were the biggest since the -\$1.7bn outflow on Sept 5^{th}

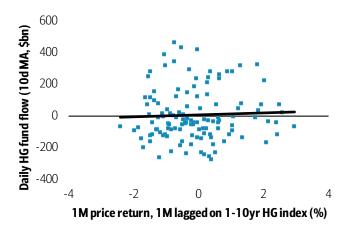


Source: BofA Global Research, EPFR Global

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Figure 3: Flows do not follow returns: Apr-2023 to Sep-2023.

During this period flows and returns show no correlation.

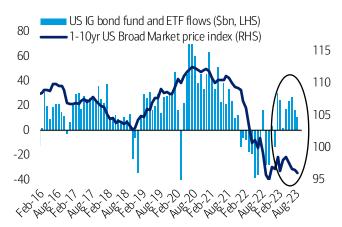


Source: BofA Global Research, EPFR Global, ICE Data Indices, LLC

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Figure 5: Flattish return, big inflows in 2023

Despite about flat returns, the net inflow YtD through August has reached $\$152\mbox{bn}.$



Source: BofA Global Research, EPFR Global, ICE Data Indices, LLC

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Daily credit snapshot

US IG issuance totaled \$11.0bn across 5 deals today, \$14.4bn WTD and \$123.1bn MTD. The average new issue concession was 12.0bps today, while the average break performance was 2.2bps tighter today. This week's new issues are trading 5.0bps tighter on average from pricing.

S&P 500 closed -1.47%, 10-year Treasury yields +0bps, CDX IG +1.3bps, CDX HY - \$0.31pts, and cash bond spreads quoted +1-3bps today, LQD closed 2.04bps wider today.

Figure 6: Recent new issue pricing and new issue concessions

List of new issues in the IG corporate bond market today along with performance metrics.

				Size	Moody's/S&P	Coupon	Px Spread	New Issue	* Break	Current spread
Date	Ticker	Name	Tenor	(\$mm)	Rating	(%)	(bps)	Conc. (bps)	performance	(bps)
2023-09-25	ACAFP	Credit Agricole SA	6NC5	1,750	A3/A-	6.316	170	n.a.	n.a.	165
2023-09-26	C	Citibank NA	2	750	Aa3/A+	FRN	SOFR+80.5	n.a.	n.a.	n.a.
2023-09-26	C	Citibank NA	2	1,750	Aa3/A+	5.864	73	n.a.	n.a.	n.a.
2023-09-26	C	Citibank NA	5	2,500	Aa3/A+	5.803	118	n.a.	-0	118
		Constellation Energy Generation							-1	
2023-09-26	CEG	LLC	10	500	Baa2/BBB	6.125	158	6	-1	157
		Constellation Energy Generation							-7	
2023-09-26	CEG	LLC	30	900	Baa2/BBB	6.5	180	n.a.	,	173
		Canadian Imperial Bank of							n.a.	
2023-09-26	CM	Commerce	3	350	A2/A-	FRN	122	n.a.	ı ı.a.	n.a.
		Canadian Imperial Bank of							n.a.	
2023-09-26	CM	Commerce	3	850	A2/A-	5.926	110	15	ı ı.a.	n.a.
		Canadian Imperial Bank of							n.a.	
2023-09-26	CM	Commerce	5	700	A2/A-	5.986	138	15	r.a.	n.a.
		Canadian Imperial Bank of							n.a.	
2023-09-26	CM	Commerce	10	1,100	A2/A-	6.092	155	n.a.	i i.a.	n.a.
2023-09-26	EIX	Southern California Edison Co	5	550	Baa1/BBB	5.65	105	n.a.	-1	104
2023-09-26	RABOBK	Cooperatieve Rabobank UA/NY	3	300	Aa2/A+	FRN	SOFR+90	n.a.	n.a.	n.a.
2023-09-26	RABOBK	Cooperatieve Rabobank UA/NY	3	700	Aa2/A+	5.5	77	n.a.	-2	75

Note: We calculate new issue concessions by estimating the difference between new issue bond spread and interpolated G spread from comparable liquid secondary bonds of the same issuer prior to the new issue deal announcement, adjusted for the spread impact of dollar prices deviating from par. Break performance is computed as the difference between new issue pricing and secondary dosing spread on the first day of trading.

Source: BofA Global Research, Bloomberg

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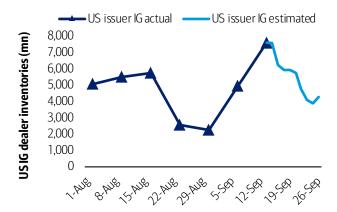
Daily dealer inventories update

Below we estimate dealer inventories for the IG corporate bonds based on TRACE data. The actual inventories of US issuer bonds based on NY Fed survey, as well as the estimated change since the latest Fed report are plotted in Figure 7 and Figure 8. We estimate the corresponding DV01 equivalent in Figure 8. More details by sector and maturity are available in Figure 9 and Figure 10. Finally, note that the data for the current date is through about 4:40 p.m. Eastern Standard Time.



Figure 7: Estimated dealer inventories of IG corporate bonds.

We estimate IG dealer inventories of US issuer bonds declined to \$4.2bn currently from \$7.6bn on Sep-13.



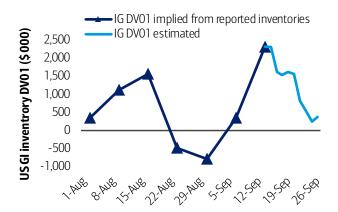
Note: data for US issuer bonds only, maturities 13M or longer. Actual dealer inventory data is from Primary Dealer Statistics survey by the NY Fed. The subsequent change in inventory is estimated based on TRACE.

Source: BofA Global Research, FINRA, TRACE, Federal Reserve

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Figure 8: Estimated dealer inventory DV01 for IG corporate bonds. We estimate IG dealer inventory DV01 of US issuer bonds declined to

\$0.4mn currently from \$2.3bn on Sep-13.



Note: data for US issuer bonds only, maturities 13M or longer. Actual dealer inventory data is from Primary Dealer Statistics survey by the NY Fed. The subsequent change in inventory is estimated based on TRACE.

Source: BofA Global Research, FINRA, TRACE, Federal Reserve

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Figure 9: Estimated changes in IG dealer inventories by maturity and broad sector.

We estimate IG dealer inventories increased \$681mn today and declined -\$2,255mn over the prior week.

		Net d	ealer buy	(\$mn)		Net	dealer D\	/01 chang	e (\$thous	Trading volumes on 26-Sep-23 (\$mn)				
Sector	26-Sep	25-Sep	1 W	2 W	4 W	26-Sep	25-Sep	1 W	2 W	4 W	Buy	Sell	Dealer	Total
High grade (13M+)	681	-335	-2,255	-3,683	3,739	146	-331	-1,635	-2,386	1,527	12,246	11,565	7,872	31,682
<3yr	264	-178	-1,540	-2,715	-704	39	-28	-294	-479	-133	1,816	1,551	1,161	4,527
3-5yr	280	176	438	444	1,820	106	62	132	164	638	2,096	1,816	1,443	5,355
5-11yr	239	-184	-82	722	3,811	121	-143	-100	289	2,188	4,100	3,861	2,804	10,764
11+yr	-102	-149	-1,071	-2,134	-1,187	-121	-222	-1,373	-2,360	-1,166	4,235	4,336	2,465	11,035
Fin	892	39	162	-154	1,934	189	65	-33	-141	800	4,939	4,047	2,877	11,863
Non-Fin	-211	-374	-2,417	-3,529	1,805	-43	-396	-1,602	-2,245	727	7,307	7,517	4,994	19,819
Fixed	620	-331	-2,271	-3,717	3,748	172	-335	-1,571	-2,351	1,536	12,019	11,398	7,817	31,233
Floating	61	-4	16	33	-10	-26	3	-64	-35	-9	227	167	55	449
US issuers	359	-232	-1,702	-2,836	2,508	118	-282	-1,268	-2,035	907	9,669	9,310	6,463	25,441
DM Yankees	272	-90	-658	-996	836	-5	-44	-469	-475	395	2,272	2,000	1,301	5,574
EM Yankees	51	-13	106	148	395	32	-5	101	124	225	305	255	108	667

Note: data for maturities 13M or longer. Changes in inventories are estimated based on TRACE.

Source: BofA Global Research, FINRA, TRACE.

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Figure 10: Estimated changes in IG dealer inventories by sector.

We estimate today IG dealer inventories increased \$1,067mn for Banks/Brokers and declined -\$24mn for Energy.

	Net dealer buy (\$mn)						dealer DV	01 chang	ge (\$thous	Trading volumes on 26-Sep-23 (\$mn)				
Sector	26-Sep	25-Sep	1 W	2 W	4 W	26-Sep	25-Sep	1 W	2 W	4 W	Buy	Sell	Dealer	Total
Aerospace/Defense	-59	21	14	-113	-18	-33	30	70	-9	53	263	322	158	743
Automobiles	-51	-55	-311	-145	232	-12	-39	-109	-58	75	147	198	180	525
Banks/Brokers	1,067	95	206	-166	1,346	412	120	132	128	633	3,537	2,470	1,883	7,890
Basic Materials	14	47	145	-73	185	-29	1	-3	-108	106	350	336	310	996
Commercial Services	35	5	20	-112	133	30	-1	9	-87	26	138	103	120	361
Energy	-24	-99	-292	-352	-439	-82	-105	-412	-217	-607	799	823	639	2,261
Finance	-3	-45	-25	-58	167	-50	-56	-57	-64	152	745	748	525	2,019
Food, Bev, & Bottling	-36	-85	-90	-393	36	-76	-63	-56	-297	44	452	488	313	1,253
Health Care	-69	-114	-715	-730	51	-51	-155	-548	-556	100	1,159	1,228	796	3,183
Industrial Products	-70	-44	-237	-290	354	-45	14	-87	-98	350	195	265	208	668
Insurance	-145	-37	-62	-97	200	-151	-15	-120	-218	19	291	436	227	954
Media & Entertainment	67	-18	103	-165	421	78	12	175	-82	272	489	422	354	1,265
REITs	-27	27	43	166	221	-22	15	11	13	-4	366	393	241	1,000

Figure 10: Estimated changes in IG dealer inventories by sector.

We estimate today IG dealer inventories increased \$1,067mn for Banks/Brokers and declined -\$24mn for Energy.

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Sector	26-Sep	25-Sep	1 W	2 W	4 W	26-Sep	25-Sep	1 W	2 W	4 W	Buy	Sell	Dealer	Total
Retail	94	92	90	180	426	73	70	124	69	302	425	331	263	1,020
Technology	-171	-30	-612	-647	-393	-61	-23	-385	-435	-379	730	901	568	2,199
Telecom	-8	77	-200	-382	-101	22	21	-173	-312	-304	411	419	294	1,124
Tobacco	23	-27	-74	-113	7	49	-12	-9	-38	-2	228	205	91	524
Transportation	-40	10	69	-84	-12	-33	-9	56	37	80	259	299	140	697
Utilities	101	-153	-221	-137	600	127	-149	-205	-58	433	1,076	975	402	2,453
Other	-15	-2	-105	28	322	1	13	-49	3	179	186	202	158	546

Note: data for maturities 13M or longer. Changes in inventories are estimated based on TRACE.

Source: BofA Global Research, FINRA, TRACE.

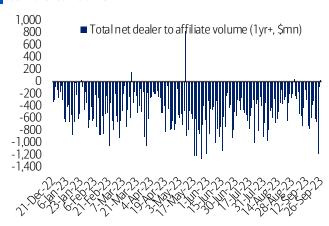
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Daily foreign demand tracker

We believe net dealer-to-affiliate volumes from Trace are correlated with foreign buying of US HG corporate bonds - i.e., negative numbers mean foreign investor buying (US dealers taking down inventory in favor of foreign affiliates). For supporting material see our "primer" on tracking foreign inflows (See: Credit Market Strategist: One year round-trip in spreads 15 July 2016). Figure 11 shows the overall daily dealer-to-affiliate volumes while Figure 12, Figure 13 and Figure 14 show subsets of this data. In particular Figure 12 shows net dealer-to-affiliate volumes for longer maturity (12+ years) bonds, Figure 13 displays volumes reported to Trace before 8am NY time (biased toward Asian buying) and Figure 14 shows the subset of net trades reported between 8am and noon (biased toward European buying).

Figure 11: Net dealer buying from affiliate (1yr+)

Figure shows inconsistent overall foreign buying of US IG corporate bonds for some time.



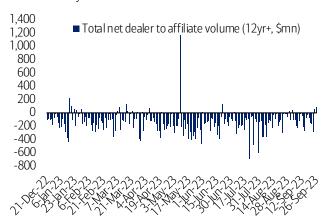
Note: Net dealer-to-affiliate volumes are correlated with foreign buying/selling. Negative numbers indicate foreign buying.

Source: Bloomberg, TRACE

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Figure 12: Net dealer buying from affiliate (12yr+)

Foreign buying of longer maturity US IG corporate bonds has been consistent this year



Note: Net dealer-to-affiliate volumes are correlated with foreign buying/selling. Negative numbers indicate foreign buying.

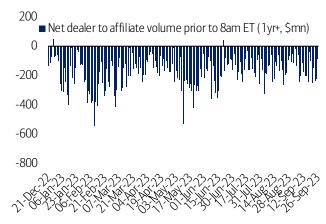
Source: Bloomberg, TRACE

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Figure 13: Net dealer-to-affiliate trading volumes before 8am ET Foreign buying before 8am NY time is dominated by Asia and has been

Foreign buying before 8am NY time is dominated by Asia and has been consistent this year



Note: Morning share of daily trading volume is correlated with secondary market activity of foreign investors due to different time zones.

Source: BofA Global Research, TRACE

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Common abbreviations:

IG: Investment Grade

HG: High Grade

LQD: iShares iBoxx \$ Investment Grade Corporate Bond ETF

DV01: Dollar value of a basis point

CDX IG: The Markit CDX North America Investment Grade Index

CDX HY: Markit CDX North America High Yield Index

ECB: European Central Bank

QE: Quantitative Easing

CSPP: corporate sector purchase programme

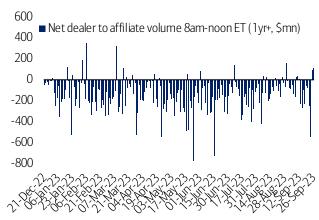
Unched: Unchanged

CPI: Consumer Price Index

FOMC: The Federal Open Market Committee

Figure 14: Net dealer-to-affiliate trading volumes 8am - noon ET

Foreign buying 8am-noon NY time is dominated by Europe and has been inconsistent this year



Note: Morning share of daily trading volume is correlated with secondary market activity of foreign investors due to different time zones.

Source: BofA Global Research, TRACE

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