GS Board Summary
November 22, 2018

Local ID	Domestic No.	CPN	Days	YRS	Maturity	D. Vol (MM)	Last Yield	Traded Time	W. Ave Yld	Bid Yield	Offer Yield	Open Yield	High Yield	Low Yield	Close Yield
RPTB 0 01/30/19	PIBL1218A020		69	0.19	1/30/2019	6.660000	5.125000	3:05:53 PM	5.116400		4.850000	5.100000	5.125000	5.000000	5.125000
RPTB 0 02/06/19	PIBL0618H132		76	0.21	2/6/2019	28.512000	5.165000	3:26:57 PM	5.130100			5.150000	5.165000	5.000000	5.165000
RPTB 0 02/13/19	PIBL1218B038		83	0.23	2/13/2019	5.600000	5.250000	3:34:21 PM	5.282100			5.300000	5.300000	5.250000	5.250000
RPGB 7 7/8 02/19/19	PIBD1019B485	7.8750	89	0.24	2/19/2019	2.500000	5.775000	11:13:29 AM	5.730000			5.700000	5.775000	5.700000	5.775000
RPTB 0 02/20/19	PIBL0618H141		90	0.25	2/20/2019	573.862000	5.370000	3:54:05 PM	5.367100		5.365000	5.365000	5.375000	5.350000	5.370000
RPTB 0 02/27/19	PIBL0618H150		97	0.27	2/27/2019	22.040000	5.365000	2:34:15 PM	5.370400		5.365000	5.365000	5.380000	5.365000	5.365000
RPTB 0 03/06/19	PIBL0618I168		104	0.29	3/6/2019	7.700000	5.380000	11:46:59 AM	5.379900		5.375000	5.375000	5.380000	5.375000	5.380000
RPTB 0 03/13/19	PIBL1218C056		111	0.30	3/13/2019										
RPTB 0 03/20/19	PIBL0618I177		118	0.32	3/20/2019										
RPTB 0 03/27/19	PIBL1218C064		125	0.34	3/27/2019										
RPTB 0 04/03/19	PIBL0618J185		132	0.36	4/3/2019										
RPTB 0 04/10/19	PIBL0618J194		139	0.38	4/10/2019	1.000000	5.700000	11:43:40 AM	5.700000			5.700000	5.700000	5.700000	5.700000
RPTB 0 04/17/19	PIBL1218D090		146	0.40	4/17/2019										
RPTB 0 04/24/19	PIBL1218D107		153	0.42	4/24/2019	0.514000	5.850000	9:49:09 AM	5.850000			5.850000	5.850000	5.850000	5.850000
RPGB 5 04/26/19	PIBD0719D531	5.0000	155	0.42	4/26/2019										
RPTB 0 04/30/19	PIBL0618J201		159	0.44	4/30/2019										
RPTB 0 05/08/19	PIBL0618K218		167	0.46	5/8/2019	5.500000	6.150000	2:49:18 PM	6.150000			6.150000	6.150000	6.150000	6.150000
RPTB 0 05/15/19	PIBL1218E132		174	0.48	5/15/2019	15.630000	6.350000	3:41:50 PM	6.241000			6.225000	6.350000	6.225000	6.350000
RPTB 0 05/22/19	PIBL1218E142		181	0.50	5/22/2019	335.453000	6.290000	3:51:40 PM	6.283400	6.375000	6.285000	6.290000	6.290000	6.275000	6.290000
RPTB 0 05/29/19	PIBL1218E151		188	0.52	5/29/2019	10.774000	5.900000	2:08:25 PM	5.953300		6.150000	6.150000	6.150000	5.900000	5.900000
RPTB 0 06/05/19	PIBL1218F169		195	0.53	6/5/2019										
RPTB 0 06/11/19	PIBL1218F178		201	0.55	6/11/2019						6.150000				
RPTB 0 06/19/19	PIBL1218F188		209	0.57	6/19/2019	0.722000	6.450000	10:01:46 AM	6.450000		6.300000	6.450000	6.450000	6.450000	6.450000
RPTB 0 06/26/19	PIBL1218F196		216	0.59	6/26/2019										
RPTB 0 07/03/19	PIBL1218G202		223	0.61	7/3/2019						6.150000				
RPTB 0 07/10/19	PIBL1218G211		230	0.63	7/10/2019						6.150000				
RPTB 0 07/17/19	PIBL1218G220		237	0.65	7/17/2019	7.876000	6.450000	3:37:47 PM	6.450000		6.050000	6.450000	6.450000	6.450000	6.450000
RPGB 4 3/4 07/19/19	PIBD0719G547	4.7500	239	0.65	7/19/2019	120.070000	6.700000	3:58:15 PM	6.699700		6.150000	6.250000	6.700000	6.250000	6.700000
RPTB 0 07/24/19	PIBL1218G239		244	0.67	7/24/2019	1.032000	6.150000	3:04:00 PM	6.150000		6.150000	6.150000	6.150000	6.150000	6.150000
RPTB 0 07/31/19	PIBL1218H249		251	0.69	7/31/2019	1.063000	6.050000	11:47:42 AM	6.050000		6.050000	6.050000	6.050000	6.050000	6.050000
RPTB 0 08/07/19	PIBL1218H256		258	0.71	8/7/2019										
RPTB 0 08/14/19	PIBL1218H265		265	0.73	8/14/2019	0.600000	6.500000	3:43:50 PM	6.500000			6.500000	6.500000	6.500000	6.500000
RPTB 0 08/20/19	PIBL1218H274		271	0.74	8/20/2019	0.250000	6.200000	11:38:03 AM	6.200000			6.200000	6.200000	6.200000	6.200000
RPTB 0 08/28/19	PIBL1218H283		279	0.76	8/28/2019										
RPGB 4 3/4 08/30/19	PIBD0719H555	4.7500	281	0.77	8/30/2019										
RPTB 0 09/04/19	PIBL1218I291		286	0.78	9/4/2019										
RPTB 0 09/11/19	PIBL1218I308		293	0.80	9/11/2019										
RPTB 0 09/18/19	PIBL1218I317		300	0.82	9/18/2019										
RPTB 0 10/02/19	PIBL1218J334		314	0.86	10/2/2019										
RPTB 0 10/09/19	PIBL1218J343		321	0.88	10/9/2019	62.600000	6.600000	3:59:41 PM	6.589600			6.350000	6.600000	6.350000	6.600000
RPTB 0 10/16/19	PIBL1218J352		328	0.90	10/16/2019						6.500000				
RPTB 0 10/23/19	PIBL1218J361		335	0.92	10/23/2019	1,100.000000	6.520000	3:57:57 PM	6.465500			6.400000	6.520000	6.400000	6.520000
RPTB 0 10/30/19	PIBL1218J370		342	0.94	10/30/2019						6.300000				
RPTB 0 11/06/19	PIBL1218K387		349	0.96	11/6/2019						6.500000				
RPTB 0 11/13/19	PIBL1218K396		356	0.98	11/13/2019	20.000000	6.550000	10:25:28 AM	6.550000		6.495000	6.550000	6.550000	6.550000	6.550000
RPTB 0 11/20/19	PIBL1218K403		363	0.99	11/20/2019	778.202000	6.527500	3:57:43 PM	6.518000		6.515000	6.510000	6.535000	6.500000	6.527500
RPGB 3 7/8 11/22/19	PIBD0719K560	3.8750	365	1.00	11/22/2019	829.787000	6.600000	3:59:57 PM	6.627100			6.400000	6.700000	6.400000	6.600000
RPGB 3 3/8 01/12/20	PIBD0320A229	3.3750	416	1.14	1/12/2020	457.642000	6.750000	3:55:16 PM	6.679600		6.625000	6.635000	6.775000	6.590000	6.750000
RPGB 7 3/4 02/18/20	PIBD1020B508	7.7500	453	1.24	2/18/2020										
RPGB 4 1/4 04/11/20	PIID0320D087	4.2500	506	1.39	4/11/2020	450.205000	6.650000	3:58:33 PM	6.522900			6.500000	6.650000	6.500000	6.650000
RPGB 7 1/4 08/19/20	PIID1020H015	7.2500	636	1.74	8/19/2020										
RPGB 3 3/8 08/20/20	PIBD0520H735	3.3750	637	1.74	8/20/2020	663.148000	6.550000	3:37:26 PM	6.616900		6.500000	6.700000	6.700000	6.550000	6.550000
RPGB 6 1/8 09/16/20	PIBD1020I510	6.1250	664	1.82	9/16/2020										
RPGB 5 7/8 12/16/20	PIBD1020L525	5.8750	755	2.07	12/16/2020	2.000000	6.750000	2:10:29 PM	6.750000			6.750000	6.750000	6.750000	6.750000
RPGB 4 1/4 01/25/21	PIBD0321A236	4.2500	795	2.18	1/25/2021	50.000000	6.650000	3:54:58 PM	6.560000			6.550000	6.650000	6.550000	6.650000
RPGB 7 3/8 03/03/21	PIID1021C027	7.3750	832	2.28	3/3/2021										
RPGB 3 1/2 03/20/21	PIBD0721C574	3.5000	849	2.32	3/20/2021	295.580000	6.800000	3:54:23 PM	6.743900		6.570000	6.625000	6.800000	6.625000	6.800000
RPGB 6 1/2 04/28/21	PIBD1021D531	6.5000	888	2.43	4/28/2021										

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RPGB 4 7/8 06/13/21	PIID0321F092	4.8750	934	2.56	6/13/2021	563.683000	6.610000	3:51:49 PM	6.604400		6.610000	6.600000	6.700000	6.500000	6.610000
RPGB 5 3/4 10/20/21	PIID1021J039	5.7500	1063	2.91	10/20/2021										
RPGB 5 3/4 11/24/21	PIBD1021K551	5.7500	1098	3.01	11/24/2021										
RPGB 6 3/8 01/19/22	PIBD1022G545	6.3750	1154	3.16	1/19/2022										
RPGB 4 01/26/22	PIBD0522A747	4.0000	1161	3.18	1/26/2022	197.500000	6.800000	3:55:11 PM	6.855000		6.650000	6.795000	6.875000	6.795000	6.800000
RPGB 15 03/14/22	PIBD2022C021	15.0000	1208	3.31	3/14/2022										
RPGB 4 7/8 08/02/22	PIBD1022H562	4.8750	1349	3.69	8/2/2022										
RPGB 4 3/4 09/13/22	PIBD1022I570	4.7500	1391	3.81	9/13/2022										
RPGB 12 3/4 10/17/22	PIBD2022J033	12.7500	1425	3.90	10/17/2022										
RPGB 4 5/8 12/04/22	PIID0522L114	4.6250	1473	4.03	12/4/2022	963.300000	6.780000	3:54:45 PM	6.753100			6.800000	6.800000	6.725000	6.780000
RPGB 4 12/06/22	PIBD1022L585	4.0000	1475	4.04	12/6/2022										
RPGB 13 02/20/23	PIBD2023B048	13.0000	1551	4.25	2/20/2023										
RPGB 5 1/2 03/08/23	PIBD0523C752	5.5000	1567	4.29	3/8/2023	9,261.599595	6.865000	3:56:12 PM	6.872600		6.840000	7.003000	7.003000	6.820000	6.865000
RPGB 3 1/2 04/21/23	PIBD0723D588	3.5000	1611	4.41	4/21/2023	115.510000	7.050000	3:57:14 PM	7.049600		6.900000	7.050000	7.050000	6.975000	7.050000
RPGB 11 7/8 05/29/23	PIBD2023E054	11.8750	1649	4.52	5/29/2023										
RPGB 3 1/4 08/15/23	PIID1023H046	3.2500	1727	4.73	8/15/2023	187.300000	6.875000	3:07:35 PM	6.999000			7.000000	7.000000	6.875000	6.875000
RPGB 11 3/8 10/23/23	PIBD2023J068	11.3750	1796	4.92	10/23/2023										
RPGB 4 1/2 04/20/24	PIBD0724D595	4.5000	1976	5.41	4/20/2024						6.900000				
RPGB 12 3/8 06/03/24	PIBD2024F075	12.3750	2020	5.53	6/3/2024										
RPGB 12 7/8 08/05/24	PIBD2024H086	12.8750	2083	5.70	8/5/2024										
RPGB 4 1/8 08/20/24	PIBD1024H595	4.1250	2098	5.74	8/20/2024										
RPGB 13 3/4 11/11/24	PIBD2024K091	13.7500	2181	5.97	11/11/2024										
RPGB 5 3/4 04/12/25	PIBD0725D618	5.7500	2333	6.39	4/12/2025	1,090.000000	6.975000	11:18:02 AM	6.972000		7.080000	7.000000	7.000000	6.950000	6.975000
RPGB 12 1/8 04/14/25	PIBD2025D103	12.1250	2335	6.39	4/14/2025										
RPGB 3 5/8 09/09/25	PIBD1025I608	3.6250	2483	6.80	9/9/2025										
RPGB 12 1/8 10/20/25	PIBD2025J116	12.1250	2524	6.91	10/20/2025										
RPGB 18 1/4 11/29/25	PIBD2525K015	18.2500	2564	7.02	11/29/2025						7.000000				
RPGB 10 1/4 01/19/26	PIBD2026A122	10.2500	2615	7.16	1/19/2026										
RPGB 3 1/2 09/20/26	PIID1026I057	3.5000	2859	7.83	9/20/2026	300.000000	7.155000	10:44:13 AM	7.153300			7.155000	7.155000	7.150000	7.155000
RPGB 6 1/4 10/20/26	PIID1526J019	6.2500	2889	7.91	10/20/2026						7.070000				
RPGB 8 12/07/26	PIBD2026L139	8.0000	2937	8.04	12/7/2026										
RPGB 5 3/8 03/01/27	PIID1527C023	5.3750	3021	8.27	3/1/2027										
RPGB 4 3/4 05/04/27	PIBD1027E617	4.7500	3085	8.45	5/4/2027	103.000000	7.000000	2:26:31 PM	7.034000		7.070000	7.070000	7.070000	7.000000	7.000000
RPGB 8 5/8 09/06/27	PIBD2027I140	8.6250	3210	8.79	9/6/2027										
RPGB 6 1/4 03/22/28	PIBD1028C635	6.2500	3408	9.33	3/22/2028	2,983.230000	7.080000	3:56:19 PM	7.061400			7.082500	7.180000	7.025000	7.080000
RPGB 9 1/2 12/04/28	PIBD2028L151	9.5000	3665	10.03	12/4/2028										
RPGB 8 3/4 05/27/30	PIBD2030E166	8.7500	4204	11.51	5/27/2030										
RPGB 12 1/2 07/28/30	PIBD2530G029	12.5000	4266	11.68	7/28/2030										
RPGB 11 1/4 01/26/31	PIBD2531A032	11.2500	4448	12.18	1/26/2031										
RPGB 8 07/19/31	PIBD2031G171	8.0000	4622	12.65	7/19/2031	1,268.550000	7.150000	11:49:33 AM	7.100500			7.125000	7.150000	7.080000	7.150000
RPGB 9 3/8 10/05/31	PIBD2531J042	9.3750	4700	12.87	10/5/2031										
RPGB 5 7/8 02/02/32	PIBD2032B183	5.8750	4820	13.20	2/2/2032										
RPGB 5 7/8 03/01/32	PIID2032C014	5.8750	4848	13.27	3/1/2032						7.250000				
RPGB 5 3/4 09/27/32	PIBD2032I195	5.7500	5058	13.85	9/27/2032										
RPGB 8 1/2 11/29/32	PIBD2532K057	8.5000	5121	14.02	11/29/2032										
RPGB 3 5/8 03/21/33	PIBD2033C206	3.6250	5233	14.33	3/21/2033	11.000000	7.300000	10:50:03 AM	7.300000		7.300000	7.300000	7.300000	7.300000	7.300000
RPGB 9 1/4 11/05/34	PIBD2534K062	9.2500	5827	15.95	11/5/2034										
RPGB 8 09/30/35	PIBD2535I071	8.0000	6156	16.85	9/30/2035										
RPGB 8 1/8 12/16/35	PIBD2535L086	8.1250	6233	17.07	12/16/2035										
RPGB 7 5/8 09/29/36	PIBD2536I097	7.6250	6521	17.85	9/29/2036										
RPGB 5 1/4 05/18/37	PIBD2037E214	5.2500	6752	18.49	5/18/2037										
RPGB 5 3/4 08/16/37	PIBD2537H103	5.7500	6842	18.73	8/16/2037										
RPGB 6 1/8 10/24/37	PIID2537J015	6.1250	6911	18.92	10/24/2037	17.000000	8.500000	2:54:31 PM	8.411800	8.000000		7.750000	8.500000	7.750000	8.500000
RPGB 6 1/2 02/22/38	PIBD2038B224	6.5000	7032	19.25	2/22/2038										
RPGB 4 5/8 09/09/40	PIBD2540I116	4.6250	7962	21.80	9/9/2040										